

Table 7 - likelihood of execution information to be published as referred to in Article 7(1)

Date	Symbol	Hour	Best Bid Price	Best Offer Price	Bid Size at Best Bid Price	Offer Size at Best Offer Price	Book depth within 3 price increments
4/2/2019	#AA	9:30:00 AM					N/A
4/2/2019	#AA	11:30:00 AM					N/A
4/2/2019	#AA	1:30:00 PM					N/A
4/2/2019	#AA	3:30:00 PM					N/A
4/2/2019	#AABA	9:30:00 AM					N/A
4/2/2019	#AABA	11:30:00 AM					N/A
4/2/2019	#AABA	1:30:00 PM					N/A
4/2/2019	#AABA	3:30:00 PM					N/A
4/2/2019	#AAL	9:30:00 AM					N/A
4/2/2019	#AAL	11:30:00 AM					N/A
4/2/2019	#AAL	1:30:00 PM					N/A
4/2/2019	#AAL	3:30:00 PM					N/A
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4/2/2019	#AAPL	11:30:00 AM					N/A
4/2/2019	#AAPL	1:30:00 PM					N/A
4/2/2019	#AAPL	3:30:00 PM					N/A
4/2/2019	#ADBE	9:30:00 AM					N/A
4/2/2019	#ADBE	11:30:00 AM					N/A
4/2/2019	#ADBE	1:30:00 PM					N/A
4/2/2019	#ADBE	3:30:00 PM					N/A
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4/2/2019	#AIG	1:30:00 PM					N/A
4/2/2019	#AIG	3:30:00 PM					N/A
4/2/2019	#AMD	9:30:00 AM					N/A
4/2/2019	#AMD	11:30:00 AM					N/A
4/2/2019	#AMD	1:30:00 PM					N/A
4/2/2019	#AMD	3:30:00 PM					N/A
4/2/2019	#AMZN	9:30:00 AM					N/A
4/2/2019	#AMZN	11:30:00 AM					N/A

4/2/2019	#AMZN	1:30:00 PM					N/A
4/2/2019	#AMZN	3:30:00 PM					N/A
4/2/2019	#AXP	9:30:00 AM					N/A
4/2/2019	#AXP	11:30:00 AM					N/A
4/2/2019	#AXP	1:30:00 PM					N/A
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4/2/2019	#BA	1:30:00 PM					N/A
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4/2/2019	#BIDU	3:30:00 PM					N/A
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4/2/2019	#Bitcoin	11:30:00 AM	4737.86	4807.61			N/A
4/2/2019	#Bitcoin	1:30:00 PM	4807.16	4873.76			N/A
4/2/2019	#Bitcoin	3:30:00 PM	4832.76	4899.41			N/A

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4/2/2019	#Ripple	11:30:00 AM	0.3337	0.3434			N/A
4/2/2019	#Ripple	1:30:00 PM	0.3338	0.3437			N/A
4/2/2019	#Ripple	3:30:00 PM	0.3344	0.3437			N/A
4/2/2019	#S	9:30:00 AM					N/A
4/2/2019	#S	11:30:00 AM					N/A
4/2/2019	#S	1:30:00 PM					N/A
4/2/2019	#S	3:30:00 PM					N/A
4/2/2019	#SBUX	9:30:00 AM					N/A
4/2/2019	#SBUX	11:30:00 AM					N/A
4/2/2019	#SBUX	1:30:00 PM					N/A
4/2/2019	#SBUX	3:30:00 PM					N/A
4/2/2019	#SNE	9:30:00 AM					N/A
4/2/2019	#SNE	11:30:00 AM					N/A
4/2/2019	#SNE	1:30:00 PM					N/A
4/2/2019	#SNE	3:30:00 PM					N/A
4/2/2019	#SPY	9:30:00 AM					N/A
4/2/2019	#SPY	11:30:00 AM					N/A
4/2/2019	#SPY	1:30:00 PM					N/A
4/2/2019	#SPY	3:30:00 PM					N/A
4/2/2019	#T	9:30:00 AM					N/A
4/2/2019	#T	11:30:00 AM					N/A
4/2/2019	#T	1:30:00 PM					N/A
4/2/2019	#T	3:30:00 PM					N/A
4/2/2019	#TEVA	9:30:00 AM					N/A
4/2/2019	#TEVA	11:30:00 AM					N/A

4/2/2019	#TEVA	1:30:00 PM					N/A
4/2/2019	#TEVA	3:30:00 PM					N/A
4/2/2019	#TRI	9:30:00 AM					N/A
4/2/2019	#TRI	11:30:00 AM					N/A
4/2/2019	#TRI	1:30:00 PM					N/A
4/2/2019	#TRI	3:30:00 PM					N/A
4/2/2019	#TRV	9:30:00 AM					N/A
4/2/2019	#TRV	11:30:00 AM					N/A
4/2/2019	#TRV	1:30:00 PM					N/A
4/2/2019	#TRV	3:30:00 PM					N/A
4/2/2019	#TSCO	9:30:00 AM					N/A
4/2/2019	#TSCO	11:30:00 AM					N/A
4/2/2019	#TSCO	1:30:00 PM					N/A
4/2/2019	#TSCO	3:30:00 PM					N/A
4/2/2019	#TSLA	9:30:00 AM					N/A
4/2/2019	#TSLA	11:30:00 AM					N/A
4/2/2019	#TSLA	1:30:00 PM					N/A
4/2/2019	#TSLA	3:30:00 PM					N/A
4/2/2019	#TWTR	9:30:00 AM					N/A
4/2/2019	#TWTR	11:30:00 AM					N/A
4/2/2019	#TWTR	1:30:00 PM					N/A
4/2/2019	#TWTR	3:30:00 PM					N/A
4/2/2019	#UBS	9:30:00 AM					N/A
4/2/2019	#UBS	11:30:00 AM					N/A
4/2/2019	#UBS	1:30:00 PM					N/A
4/2/2019	#UBS	3:30:00 PM					N/A
4/2/2019	#UL	9:30:00 AM					N/A
4/2/2019	#UL	11:30:00 AM					N/A
4/2/2019	#UL	1:30:00 PM					N/A
4/2/2019	#UL	3:30:00 PM					N/A
4/2/2019	#UPS	9:30:00 AM					N/A
4/2/2019	#UPS	11:30:00 AM					N/A
4/2/2019	#UPS	1:30:00 PM					N/A
4/2/2019	#UPS	3:30:00 PM					N/A

4/2/2019	#UTX	9:30:00 AM					N/A
4/2/2019	#UTX	11:30:00 AM					N/A
4/2/2019	#UTX	1:30:00 PM					N/A
4/2/2019	#UTX	3:30:00 PM					N/A
4/2/2019	#V	9:30:00 AM					N/A
4/2/2019	#V	11:30:00 AM					N/A
4/2/2019	#V	1:30:00 PM					N/A
4/2/2019	#V	3:30:00 PM					N/A
4/2/2019	#VOD	9:30:00 AM					N/A
4/2/2019	#VOD	11:30:00 AM					N/A
4/2/2019	#VOD	1:30:00 PM					N/A
4/2/2019	#VOD	3:30:00 PM					N/A
4/2/2019	#VZ	9:30:00 AM					N/A
4/2/2019	#VZ	11:30:00 AM					N/A
4/2/2019	#VZ	1:30:00 PM					N/A
4/2/2019	#VZ	3:30:00 PM					N/A
4/2/2019	#WDC	9:30:00 AM					N/A
4/2/2019	#WDC	11:30:00 AM					N/A
4/2/2019	#WDC	1:30:00 PM					N/A
4/2/2019	#WDC	3:30:00 PM					N/A
4/2/2019	#WFC	9:30:00 AM					N/A
4/2/2019	#WFC	11:30:00 AM					N/A
4/2/2019	#WFC	1:30:00 PM					N/A
4/2/2019	#WFC	3:30:00 PM					N/A
4/2/2019	#WMT	9:30:00 AM					N/A
4/2/2019	#WMT	11:30:00 AM					N/A
4/2/2019	#WMT	1:30:00 PM					N/A
4/2/2019	#WMT	3:30:00 PM					N/A
4/2/2019	#XOM	9:30:00 AM					N/A
4/2/2019	#XOM	11:30:00 AM					N/A
4/2/2019	#XOM	1:30:00 PM					N/A
4/2/2019	#XOM	3:30:00 PM					N/A
4/2/2019	#YHOO	9:30:00 AM					N/A
4/2/2019	#YHOO	11:30:00 AM					N/A

4/2/2019	#YHOO	1:30:00 PM					N/A
4/2/2019	#YHOO	3:30:00 PM					N/A
4/2/2019	#ZNGA	9:30:00 AM					N/A
4/2/2019	#ZNGA	11:30:00 AM					N/A
4/2/2019	#ZNGA	1:30:00 PM					N/A
4/2/2019	#ZNGA	3:30:00 PM					N/A
4/2/2019	AUDCAD	9:30:00 AM	0.9424	0.94312			N/A
4/2/2019	AUDCAD	11:30:00 AM	0.94267	0.94337			N/A
4/2/2019	AUDCAD	1:30:00 PM	0.9426	0.94329			N/A
4/2/2019	AUDCAD	3:30:00 PM	0.94254	0.94314			N/A
4/2/2019	AUDCAD.fx	9:30:00 AM	0.94272	0.94277			N/A
4/2/2019	AUDCAD.fx	11:30:00 AM	0.94301	0.94303			N/A
4/2/2019	AUDCAD.fx	1:30:00 PM	0.94292	0.94296			N/A
4/2/2019	AUDCAD.fx	3:30:00 PM	0.94284	0.94279			N/A
4/2/2019	AUDCHF	9:30:00 AM	0.70696	0.70764			N/A
4/2/2019	AUDCHF	11:30:00 AM	0.70668	0.70739			N/A
4/2/2019	AUDCHF	1:30:00 PM	0.70711	0.70771			N/A
4/2/2019	AUDCHF	3:30:00 PM	0.70688	0.70749			N/A
4/2/2019	AUDCHF.fx	9:30:00 AM	0.70729	0.7073			N/A
4/2/2019	AUDCHF.fx	11:30:00 AM	0.70703	0.70705			N/A
4/2/2019	AUDCHF.fx	1:30:00 PM	0.70745	0.70737			N/A
4/2/2019	AUDCHF.fx	3:30:00 PM	0.70719	0.70715			N/A
4/2/2019	AUDCZK	9:30:00 AM	16.267	16.283			N/A
4/2/2019	AUDCZK	11:30:00 AM	16.24	16.254			N/A
4/2/2019	AUDCZK	1:30:00 PM	16.242	16.254			N/A
4/2/2019	AUDCZK	3:30:00 PM	16.24	16.248			N/A
4/2/2019	AUDDKK	9:30:00 AM	4.715	4.7197			N/A
4/2/2019	AUDDKK	11:30:00 AM	4.7124	4.7171			N/A
4/2/2019	AUDDKK	1:30:00 PM	4.714	4.7183			N/A
4/2/2019	AUDDKK	3:30:00 PM	4.7124	4.7162			N/A
4/2/2019	AUDHKD	9:30:00 AM	5.5537	5.5577			N/A
4/2/2019	AUDHKD	11:30:00 AM	5.5496	5.5533			N/A
4/2/2019	AUDHKD	1:30:00 PM	5.5519	5.5548			N/A
4/2/2019	AUDHKD	3:30:00 PM	5.5532	5.5568			N/A

4/2/2019	AUDHUF	9:30:00 AM	203.13	203.27			N/A
4/2/2019	AUDHUF	11:30:00 AM	203.26	203.4			N/A
4/2/2019	AUDHUF	1:30:00 PM	203.12	203.33			N/A
4/2/2019	AUDHUF	3:30:00 PM	202.93	203.05			N/A
4/2/2019	AUDJPY	9:30:00 AM	78.795	78.856			N/A
4/2/2019	AUDJPY	11:30:00 AM	78.758	78.82			N/A
4/2/2019	AUDJPY	1:30:00 PM	78.751	78.813			N/A
4/2/2019	AUDJPY	3:30:00 PM	78.797	78.843			N/A
4/2/2019	AUDJPY.fx	9:30:00 AM	78.828	78.821			N/A
4/2/2019	AUDJPY.fx	11:30:00 AM	78.792	78.784			N/A
4/2/2019	AUDJPY.fx	1:30:00 PM	78.788	78.778			N/A
4/2/2019	AUDJPY.fx	3:30:00 PM	78.829	78.808			N/A
4/2/2019	AUDMXN	9:30:00 AM	13.5754	13.5855			N/A
4/2/2019	AUDMXN	11:30:00 AM	13.5672	13.5684			N/A
4/2/2019	AUDMXN	1:30:00 PM	13.5467	13.5492			N/A
4/2/2019	AUDMXN	3:30:00 PM	13.5149	13.5169			N/A
4/2/2019	AUDNOK	9:30:00 AM	6.0855	6.0908			N/A
4/2/2019	AUDNOK	11:30:00 AM	6.0858	6.0912			N/A
4/2/2019	AUDNOK	1:30:00 PM	6.0894	6.0945			N/A
4/2/2019	AUDNOK	3:30:00 PM	6.0905	6.0955			N/A
4/2/2019	AUDNOK.fx	9:30:00 AM	6.0869	6.0893			N/A
4/2/2019	AUDNOK.fx	11:30:00 AM	6.0873	6.0895			N/A
4/2/2019	AUDNOK.fx	1:30:00 PM	6.0909	6.0928			N/A
4/2/2019	AUDNOK.fx	3:30:00 PM	6.0917	6.0939			N/A
4/2/2019	AUDNZD	9:30:00 AM	1.04392	1.04484			N/A
4/2/2019	AUDNZD	11:30:00 AM	1.04466	1.0455			N/A
4/2/2019	AUDNZD	1:30:00 PM	1.04529	1.046			N/A
4/2/2019	AUDNZD	3:30:00 PM	1.04571	1.04641			N/A
4/2/2019	AUDNZD.fx	9:30:00 AM	1.04433	1.04442			N/A
4/2/2019	AUDNZD.fx	11:30:00 AM	1.04508	1.04506			N/A
4/2/2019	AUDNZD.fx	1:30:00 PM	1.0457	1.04557			N/A
4/2/2019	AUDNZD.fx	3:30:00 PM	1.04614	1.04597			N/A
4/2/2019	AUDPLN	9:30:00 AM	2.7146	2.7178			N/A
4/2/2019	AUDPLN	11:30:00 AM	2.7148	2.718			N/A

4/2/2019	AUDPLN	1:30:00 PM	2.7149	2.7178			N/A
4/2/2019	AUDPLN	3:30:00 PM	2.7121	2.7135			N/A
4/2/2019	AUDSEK	9:30:00 AM	6.5816	6.5847			N/A
4/2/2019	AUDSEK	11:30:00 AM	6.583	6.586			N/A
4/2/2019	AUDSEK	1:30:00 PM	6.5948	6.5976			N/A
4/2/2019	AUDSEK	3:30:00 PM	6.5926	6.5952			N/A
4/2/2019	AUDSEK.fx	9:30:00 AM	6.5768	6.5892			N/A
4/2/2019	AUDSEK.fx	11:30:00 AM	6.5782	6.5903			N/A
4/2/2019	AUDSEK.fx	1:30:00 PM	6.5902	6.6021			N/A
4/2/2019	AUDSEK.fx	3:30:00 PM	6.5875	6.5997			N/A
4/2/2019	AUDSGD	9:30:00 AM	0.9596	0.9597			N/A
4/2/2019	AUDSGD	11:30:00 AM	0.9591	0.9594			N/A
4/2/2019	AUDSGD	1:30:00 PM	0.9592	0.9593			N/A
4/2/2019	AUDSGD	3:30:00 PM	0.9592	0.9594			N/A
4/2/2019	AUDSGD.fx	9:30:00 AM	0.95971	0.95979			N/A
4/2/2019	AUDSGD.fx	11:30:00 AM	0.9592	0.95927			N/A
4/2/2019	AUDSGD.fx	1:30:00 PM	0.95922	0.95926			N/A
4/2/2019	AUDSGD.fx	3:30:00 PM	0.95925	0.95936			N/A
4/2/2019	AUDUSD	9:30:00 AM	0.7079	0.70797			N/A
4/2/2019	AUDUSD	11:30:00 AM	0.7074	0.70752			N/A
4/2/2019	AUDUSD	1:30:00 PM	0.70762	0.70765			N/A
4/2/2019	AUDUSD	3:30:00 PM	0.70783	0.70782			N/A
4/2/2019	AUDUSD.fx	9:30:00 AM	0.70794	0.70791			N/A
4/2/2019	AUDUSD.fx	11:30:00 AM	0.70746	0.70746			N/A
4/2/2019	AUDUSD.fx	1:30:00 PM	0.70766	0.7076			N/A
4/2/2019	AUDUSD.fx	3:30:00 PM	0.70786	0.70776			N/A
4/2/2019	AUDZAR	9:30:00 AM	10.0559	10.0679			N/A
4/2/2019	AUDZAR	11:30:00 AM	10.0427	10.0527			N/A
4/2/2019	AUDZAR	1:30:00 PM	10.0204	10.0351			N/A
4/2/2019	AUDZAR	3:30:00 PM	9.9871	9.9939			N/A
4/2/2019	AUS200.i	9:30:00 AM	6256.46	6259.66			N/A
4/2/2019	AUS200.i	11:30:00 AM	6260.26	6263.46			N/A
4/2/2019	AUS200.i	1:30:00 PM	6263.96	6266.66			N/A
4/2/2019	AUS200.i	3:30:00 PM	6263.46	6267.06			N/A

4/2/2019	BCHUSD	9:30:00 AM	178.47	189.59			N/A
4/2/2019	BCHUSD	11:30:00 AM	180.6	192.07			N/A
4/2/2019	BCHUSD	1:30:00 PM	181.22	192.95			N/A
4/2/2019	BCHUSD	3:30:00 PM	186	196.31			N/A
4/2/2019	CADCHF	9:30:00 AM	0.74989	0.75062			N/A
4/2/2019	CADCHF	11:30:00 AM	0.74939	0.75009			N/A
4/2/2019	CADCHF	1:30:00 PM	0.74992	0.75053			N/A
4/2/2019	CADCHF	3:30:00 PM	0.74972	0.75039			N/A
4/2/2019	CADCHF.fx	9:30:00 AM	0.75022	0.75028			N/A
4/2/2019	CADCHF.fx	11:30:00 AM	0.74974	0.74973			N/A
4/2/2019	CADCHF.fx	1:30:00 PM	0.75025	0.75018			N/A
4/2/2019	CADCHF.fx	3:30:00 PM	0.75002	0.75004			N/A
4/2/2019	CADCZK	9:30:00 AM	17.259	17.274			N/A
4/2/2019	CADCZK	11:30:00 AM	17.224	17.239			N/A
4/2/2019	CADCZK	1:30:00 PM	17.228	17.24			N/A
4/2/2019	CADCZK	3:30:00 PM	17.228	17.235			N/A
4/2/2019	CADDDKK	9:30:00 AM	5.002	5.006			N/A
4/2/2019	CADDDKK	11:30:00 AM	4.998	5.002			N/A
4/2/2019	CADDDKK	1:30:00 PM	5.001	5.005			N/A
4/2/2019	CADDDKK	3:30:00 PM	4.998	5.001			N/A
4/2/2019	CADHKD	9:30:00 AM	5.8923	5.8963			N/A
4/2/2019	CADHKD	11:30:00 AM	5.8862	5.89			N/A
4/2/2019	CADHKD	1:30:00 PM	5.8887	5.8918			N/A
4/2/2019	CADHKD	3:30:00 PM	5.8911	5.8949			N/A
4/2/2019	CADHUF	9:30:00 AM	215.54	215.61			N/A
4/2/2019	CADHUF	11:30:00 AM	215.6	215.65			N/A
4/2/2019	CADHUF	1:30:00 PM	215.48	215.62			N/A
4/2/2019	CADHUF	3:30:00 PM	215.32	215.35			N/A
4/2/2019	CADJPY	9:30:00 AM	83.581	83.646			N/A
4/2/2019	CADJPY	11:30:00 AM	83.521	83.579			N/A
4/2/2019	CADJPY	1:30:00 PM	83.521	83.583			N/A
4/2/2019	CADJPY	3:30:00 PM	83.57	83.628			N/A
4/2/2019	CADJPY.fx	9:30:00 AM	83.615	83.611			N/A
4/2/2019	CADJPY.fx	11:30:00 AM	83.553	83.545			N/A

4/2/2019	CADJPY.fx	1:30:00 PM	83.554	83.548			N/A
4/2/2019	CADJPY.fx	3:30:00 PM	83.6	83.593			N/A
4/2/2019	CADMXN	9:30:00 AM	14.4014	14.4142			N/A
4/2/2019	CADMXN	11:30:00 AM	14.3883	14.3917			N/A
4/2/2019	CADMXN	1:30:00 PM	14.3679	14.3726			N/A
4/2/2019	CADMXN	3:30:00 PM	14.336	14.3398			N/A
4/2/2019	CADNOK	9:30:00 AM	6.454	6.4565			N/A
4/2/2019	CADNOK	11:30:00 AM	6.4526	6.4557			N/A
4/2/2019	CADNOK	1:30:00 PM	6.4578	6.4618			N/A
4/2/2019	CADNOK	3:30:00 PM	6.4593	6.4614			N/A
4/2/2019	CADPLN	9:30:00 AM	2.88	2.8818			N/A
4/2/2019	CADPLN	11:30:00 AM	2.8793	2.8812			N/A
4/2/2019	CADPLN	1:30:00 PM	2.8798	2.8812			N/A
4/2/2019	CADPLN	3:30:00 PM	2.877	2.8771			N/A
4/2/2019	CADSEK	9:30:00 AM	6.9797	6.9828			N/A
4/2/2019	CADSEK	11:30:00 AM	6.9795	6.9831			N/A
4/2/2019	CADSEK	1:30:00 PM	6.9931	6.9955			N/A
4/2/2019	CADSEK	3:30:00 PM	6.9908	6.994			N/A
4/2/2019	CADSGD	9:30:00 AM	1.0173	1.0176			N/A
4/2/2019	CADSGD	11:30:00 AM	1.0165	1.0168			N/A
4/2/2019	CADSGD	1:30:00 PM	1.0166	1.0168			N/A
4/2/2019	CADSGD	3:30:00 PM	1.0168	1.0172			N/A
4/2/2019	CADZAR	9:30:00 AM	10.6687	10.6817			N/A
4/2/2019	CADZAR	11:30:00 AM	10.6504	10.6633			N/A
4/2/2019	CADZAR	1:30:00 PM	10.6277	10.6444			N/A
4/2/2019	CADZAR	3:30:00 PM	10.5937	10.6022			N/A
4/2/2019	CHFCZK	9:30:00 AM	23.009	23.022			N/A
4/2/2019	CHFCZK	11:30:00 AM	22.977	22.992			N/A
4/2/2019	CHFCZK	1:30:00 PM	22.968	22.98			N/A
4/2/2019	CHFCZK	3:30:00 PM	22.973	22.978			N/A
4/2/2019	CHFDKK	9:30:00 AM	6.668	6.668			N/A
4/2/2019	CHFDKK	11:30:00 AM	6.667	6.669			N/A
4/2/2019	CHFDKK	1:30:00 PM	6.665	6.668			N/A
4/2/2019	CHFDKK	3:30:00 PM	6.665	6.667			N/A

4/2/2019	CHFDKK.fx	9:30:00 AM	6.6663	6.6723			N/A
4/2/2019	CHFDKK.fx	11:30:00 AM	6.6653	6.6713			N/A
4/2/2019	CHFDKK.fx	1:30:00 PM	6.6637	6.6693			N/A
4/2/2019	CHFDKK.fx	3:30:00 PM	6.663	6.6691			N/A
4/2/2019	CHFHKD	9:30:00 AM	7.8545	7.8585			N/A
4/2/2019	CHFHKD	11:30:00 AM	7.852	7.8559			N/A
4/2/2019	CHFHKD	1:30:00 PM	7.8502	7.8534			N/A
4/2/2019	CHFHKD	3:30:00 PM	7.8549	7.8588			N/A
4/2/2019	CHFHUF	9:30:00 AM	287.24	287.48			N/A
4/2/2019	CHFHUF	11:30:00 AM	287.5	287.73			N/A
4/2/2019	CHFHUF	1:30:00 PM	287.18	287.52			N/A
4/2/2019	CHFHUF	3:30:00 PM	287.03	287.22			N/A
4/2/2019	CHFJPY	9:30:00 AM	111.414	111.482			N/A
4/2/2019	CHFJPY	11:30:00 AM	111.406	111.466			N/A
4/2/2019	CHFJPY	1:30:00 PM	111.337	111.401			N/A
4/2/2019	CHFJPY	3:30:00 PM	111.429	111.48			N/A
4/2/2019	CHFJPY.fx	9:30:00 AM	111.447	111.45			N/A
4/2/2019	CHFJPY.fx	11:30:00 AM	111.438	111.432			N/A
4/2/2019	CHFJPY.fx	1:30:00 PM	111.369	111.366			N/A
4/2/2019	CHFJPY.fx	3:30:00 PM	111.457	111.45			N/A
4/2/2019	CHFMXN	9:30:00 AM	19.1961	19.2123			N/A
4/2/2019	CHFMXN	11:30:00 AM	19.1927	19.1964			N/A
4/2/2019	CHFMXN	1:30:00 PM	19.1536	19.1596			N/A
4/2/2019	CHFMXN	3:30:00 PM	19.1166	19.1197			N/A
4/2/2019	CHFNOK	9:30:00 AM	8.6036	8.611			N/A
4/2/2019	CHFNOK	11:30:00 AM	8.6073	8.6152			N/A
4/2/2019	CHFNOK	1:30:00 PM	8.6077	8.6151			N/A
4/2/2019	CHFNOK	3:30:00 PM	8.6128	8.619			N/A
4/2/2019	CHFNOK.fx	9:30:00 AM	8.60678	8.60803			N/A
4/2/2019	CHFNOK.fx	11:30:00 AM	8.61061	8.61188			N/A
4/2/2019	CHFNOK.fx	1:30:00 PM	8.61107	8.61164			N/A
4/2/2019	CHFNOK.fx	3:30:00 PM	8.61599	8.61625			N/A
4/2/2019	CHFPLN	9:30:00 AM	3.8386	3.8416			N/A
4/2/2019	CHFPLN	11:30:00 AM	3.8404	3.8434			N/A

4/2/2019	CHFPLN	1:30:00 PM	3.8386	3.8408			N/A
4/2/2019	CHFPLN	3:30:00 PM	3.8354	3.8365			N/A
4/2/2019	CHFPLN.fx	9:30:00 AM	3.83593	3.84419			N/A
4/2/2019	CHFPLN.fx	11:30:00 AM	3.83808	3.84585			N/A
4/2/2019	CHFPLN.fx	1:30:00 PM	3.83615	3.84321			N/A
4/2/2019	CHFPLN.fx	3:30:00 PM	3.83226	3.8388			N/A
4/2/2019	CHFSEK	9:30:00 AM	9.3043	9.3072			N/A
4/2/2019	CHFSEK	11:30:00 AM	9.3099	9.3141			N/A
4/2/2019	CHFSEK	1:30:00 PM	9.322	9.3242			N/A
4/2/2019	CHFSEK	3:30:00 PM	9.3215	9.3251			N/A
4/2/2019	CHFSGD	9:30:00 AM	1.3567	1.3571			N/A
4/2/2019	CHFSGD	11:30:00 AM	1.3564	1.3569			N/A
4/2/2019	CHFSGD	1:30:00 PM	1.3558	1.3562			N/A
4/2/2019	CHFSGD	3:30:00 PM	1.3564	1.3568			N/A
4/2/2019	CHFSGD.fx	9:30:00 AM	1.35684	1.35698			N/A
4/2/2019	CHFSGD.fx	11:30:00 AM	1.35666	1.35676			N/A
4/2/2019	CHFSGD.fx	1:30:00 PM	1.3559	1.356			N/A
4/2/2019	CHFSGD.fx	3:30:00 PM	1.35653	1.35666			N/A
4/2/2019	CHFZAR	9:30:00 AM	14.2238	14.2345			N/A
4/2/2019	CHFZAR	11:30:00 AM	14.2111	14.2182			N/A
4/2/2019	CHFZAR	1:30:00 PM	14.1715	14.1843			N/A
4/2/2019	CHFZAR	3:30:00 PM	14.1306	14.1325			N/A
4/2/2019	CZKJPY	9:30:00 AM	4.843	4.845			N/A
4/2/2019	CZKJPY	11:30:00 AM					N/A
4/2/2019	CZKJPY	1:30:00 PM	4.847	4.85			N/A
4/2/2019	CZKJPY	3:30:00 PM	4.852	4.854			N/A
4/2/2019	DAX30.i	9:30:00 AM	11685.33	11684.58			N/A
4/2/2019	DAX30.i	11:30:00 AM	11704.83	11694.33			N/A
4/2/2019	DAX30.i	1:30:00 PM	11727.83	11719.58			N/A
4/2/2019	DAX30.i	3:30:00 PM	11752.08	11751.58			N/A
4/2/2019	DJ30.i	9:30:00 AM					N/A
4/2/2019	DJ30.i	11:30:00 AM					N/A
4/2/2019	DJ30.i	1:30:00 PM					N/A
4/2/2019	DJ30.i	3:30:00 PM					N/A

4/2/2019	DKKJPY	9:30:00 AM	16.71	16.73			N/A
4/2/2019	DKKJPY	11:30:00 AM	16.71	16.73			N/A
4/2/2019	DKKJPY	1:30:00 PM	16.71	16.72			N/A
4/2/2019	DKKJPY	3:30:00 PM	16.73	16.74			N/A
4/2/2019	EURAUD	9:30:00 AM	1.58152	1.58198			N/A
4/2/2019	EURAUD	11:30:00 AM	1.58247	1.58291			N/A
4/2/2019	EURAUD	1:30:00 PM	1.58204	1.5824			N/A
4/2/2019	EURAUD	3:30:00 PM	1.58277	1.58292			N/A
4/2/2019	EURAUD.fx	9:30:00 AM	1.58171	1.58178			N/A
4/2/2019	EURAUD.fx	11:30:00 AM	1.58266	1.5827			N/A
4/2/2019	EURAUD.fx	1:30:00 PM	1.58223	1.58218			N/A
4/2/2019	EURAUD.fx	3:30:00 PM	1.58295	1.58273			N/A
4/2/2019	EURCAD	9:30:00 AM	1.49136	1.49218			N/A
4/2/2019	EURCAD	11:30:00 AM	1.49266	1.49353			N/A
4/2/2019	EURCAD	1:30:00 PM	1.49214	1.49286			N/A
4/2/2019	EURCAD	3:30:00 PM	1.49264	1.49331			N/A
4/2/2019	EURCAD.fx	9:30:00 AM	1.49177	1.49177			N/A
4/2/2019	EURCAD.fx	11:30:00 AM	1.49308	1.4931			N/A
4/2/2019	EURCAD.fx	1:30:00 PM	1.49255	1.49245			N/A
4/2/2019	EURCAD.fx	3:30:00 PM	1.49304	1.49293			N/A
4/2/2019	EURCHF	9:30:00 AM	1.1192	1.11922			N/A
4/2/2019	EURCHF	11:30:00 AM	1.1194	1.11947			N/A
4/2/2019	EURCHF	1:30:00 PM	1.11974	1.11972			N/A
4/2/2019	EURCHF	3:30:00 PM	1.1198	1.11981			N/A
4/2/2019	EURCHF.fx	9:30:00 AM	1.11925	1.11918			N/A
4/2/2019	EURCHF.fx	11:30:00 AM	1.11945	1.11942			N/A
4/2/2019	EURCHF.fx	1:30:00 PM	1.11978	1.11968			N/A
4/2/2019	EURCHF.fx	3:30:00 PM	1.11983	1.11975			N/A
4/2/2019	EURCZK	9:30:00 AM	25.737	25.774			N/A
4/2/2019	EURCZK	11:30:00 AM	25.707	25.744			N/A
4/2/2019	EURCZK	1:30:00 PM	25.703	25.737			N/A
4/2/2019	EURCZK	3:30:00 PM	25.705	25.737			N/A
4/2/2019	EURDKK	9:30:00 AM	7.4606	7.4619			N/A
4/2/2019	EURDKK	11:30:00 AM	7.4641	7.464			N/A

4/2/2019	EURDKK	1:30:00 PM	7.4641	7.4642			N/A
4/2/2019	EURDKK	3:30:00 PM	7.4637	7.4649			N/A
4/2/2019	EURGBP	9:30:00 AM	0.85816	0.85812			N/A
4/2/2019	EURGBP	11:30:00 AM	0.85781	0.85754			N/A
4/2/2019	EURGBP	1:30:00 PM	0.85826	0.85814			N/A
4/2/2019	EURGBP	3:30:00 PM	0.86017	0.86002			N/A
4/2/2019	EURGBP.fx	9:30:00 AM	0.85818	0.85809			N/A
4/2/2019	EURGBP.fx	11:30:00 AM	0.85776	0.85752			N/A
4/2/2019	EURGBP.fx	1:30:00 PM	0.85827	0.8581			N/A
4/2/2019	EURGBP.fx	3:30:00 PM	0.86019	0.86004			N/A
4/2/2019	EURHKD	9:30:00 AM	8.7914	8.7956			N/A
4/2/2019	EURHKD	11:30:00 AM	8.7902	8.795			N/A
4/2/2019	EURHKD	1:30:00 PM	8.7899	8.7945			N/A
4/2/2019	EURHKD	3:30:00 PM	8.7963	8.8002			N/A
4/2/2019	EURHKD.fx	9:30:00 AM	8.79391	8.79297			N/A
4/2/2019	EURHKD.fx	11:30:00 AM	8.79278	8.79249			N/A
4/2/2019	EURHKD.fx	1:30:00 PM	8.79251	8.79196			N/A
4/2/2019	EURHKD.fx	3:30:00 PM	8.79887	8.79771			N/A
4/2/2019	EURHUF	9:30:00 AM	321.44	322.13			N/A
4/2/2019	EURHUF	11:30:00 AM	321.79	322.5			N/A
4/2/2019	EURHUF	1:30:00 PM	321.45	322.18			N/A
4/2/2019	EURHUF	3:30:00 PM	321.33	322.04			N/A
4/2/2019	EURHUF.fx	9:30:00 AM	321.692	321.858			N/A
4/2/2019	EURHUF.fx	11:30:00 AM	322.065	322.226			N/A
4/2/2019	EURHUF.fx	1:30:00 PM	321.713	321.916			N/A
4/2/2019	EURHUF.fx	3:30:00 PM	321.6	321.795			N/A
4/2/2019	EURJPY	9:30:00 AM	124.737	124.728			N/A
4/2/2019	EURJPY	11:30:00 AM	124.749	124.741			N/A
4/2/2019	EURJPY	1:30:00 PM	124.707	124.699			N/A
4/2/2019	EURJPY	3:30:00 PM	124.811	124.792			N/A
4/2/2019	EURJPY.fx	9:30:00 AM	124.739	124.725			N/A
4/2/2019	EURJPY.fx	11:30:00 AM	124.751	124.737			N/A
4/2/2019	EURJPY.fx	1:30:00 PM	124.708	124.696			N/A
4/2/2019	EURJPY.fx	3:30:00 PM	124.811	124.794			N/A

4/2/2019	EURMXN	9:30:00 AM	21.4882	21.5056			N/A
4/2/2019	EURMXN	11:30:00 AM	21.4853	21.4931			N/A
4/2/2019	EURMXN	1:30:00 PM	21.448	21.4549			N/A
4/2/2019	EURMXN	3:30:00 PM	21.4066	21.4141			N/A
4/2/2019	EURMXN.fx	9:30:00 AM	21.4959	21.4974			N/A
4/2/2019	EURMXN.fx	11:30:00 AM	21.4937	21.4845			N/A
4/2/2019	EURMXN.fx	1:30:00 PM	21.4553	21.4472			N/A
4/2/2019	EURMXN.fx	3:30:00 PM	21.415	21.4059			N/A
4/2/2019	EURNOK	9:30:00 AM	9.6272	9.6397			N/A
4/2/2019	EURNOK	11:30:00 AM	9.6334	9.646			N/A
4/2/2019	EURNOK	1:30:00 PM	9.636	9.6485			N/A
4/2/2019	EURNOK	3:30:00 PM	9.6422	9.6534			N/A
4/2/2019	EURNOK.fx	9:30:00 AM	9.63258	9.63428			N/A
4/2/2019	EURNOK.fx	11:30:00 AM	9.63876	9.64056			N/A
4/2/2019	EURNOK.fx	1:30:00 PM	9.64141	9.64306			N/A
4/2/2019	EURNOK.fx	3:30:00 PM	9.64757	9.64824			N/A
4/2/2019	EURNZD	9:30:00 AM	1.65219	1.65294			N/A
4/2/2019	EURNZD	11:30:00 AM	1.65436	1.65503			N/A
4/2/2019	EURNZD	1:30:00 PM	1.65471	1.6554			N/A
4/2/2019	EURNZD	3:30:00 PM	1.65619	1.65646			N/A
4/2/2019	EURNZD.fx	9:30:00 AM	1.6526	1.65253			N/A
4/2/2019	EURNZD.fx	11:30:00 AM	1.65475	1.6546			N/A
4/2/2019	EURNZD.fx	1:30:00 PM	1.65512	1.65496			N/A
4/2/2019	EURNZD.fx	3:30:00 PM	1.6566	1.65616			N/A
4/2/2019	EURPLN	9:30:00 AM	4.2968	4.2994			N/A
4/2/2019	EURPLN	11:30:00 AM	4.2991	4.3014			N/A
4/2/2019	EURPLN	1:30:00 PM	4.2982	4.3008			N/A
4/2/2019	EURPLN	3:30:00 PM	4.295	4.2963			N/A
4/2/2019	EURPLN.fx	9:30:00 AM	4.29571	4.30032			N/A
4/2/2019	EURPLN.fx	11:30:00 AM	4.29847	4.30312			N/A
4/2/2019	EURPLN.fx	1:30:00 PM	4.29767	4.30132			N/A
4/2/2019	EURPLN.fx	3:30:00 PM	4.29375	4.29692			N/A
4/2/2019	EURRUB	9:30:00 AM					N/A
4/2/2019	EURRUB	11:30:00 AM	73.005	73.43			N/A

4/2/2019	EURRUB	1:30:00 PM	72.939	73.376			N/A
4/2/2019	EURRUB	3:30:00 PM	72.966	73.389			N/A
4/2/2019	EURSEK	9:30:00 AM	10.4146	10.4188			N/A
4/2/2019	EURSEK	11:30:00 AM	10.4227	10.4267			N/A
4/2/2019	EURSEK	1:30:00 PM	10.4381	10.443			N/A
4/2/2019	EURSEK	3:30:00 PM	10.4386	10.443			N/A
4/2/2019	EURSEK.fx	9:30:00 AM	10.41633	10.41695			N/A
4/2/2019	EURSEK.fx	11:30:00 AM	10.42433	10.4248			N/A
4/2/2019	EURSEK.fx	1:30:00 PM	10.43978	10.44065			N/A
4/2/2019	EURSEK.fx	3:30:00 PM	10.44026	10.44145			N/A
4/2/2019	EURSGD	9:30:00 AM	1.5185	1.519			N/A
4/2/2019	EURSGD	11:30:00 AM	1.5184	1.5191			N/A
4/2/2019	EURSGD	1:30:00 PM	1.518	1.5187			N/A
4/2/2019	EURSGD	3:30:00 PM	1.5188	1.5195			N/A
4/2/2019	EURSGD.fx	9:30:00 AM	1.51874	1.5186			N/A
4/2/2019	EURSGD.fx	11:30:00 AM	1.51877	1.51871			N/A
4/2/2019	EURSGD.fx	1:30:00 PM	1.51829	1.51834			N/A
4/2/2019	EURSGD.fx	3:30:00 PM	1.51907	1.51911			N/A
4/2/2019	EURUSD	9:30:00 AM	1.12009	1.12005			N/A
4/2/2019	EURUSD	11:30:00 AM	1.11993	1.11996			N/A
4/2/2019	EURUSD	1:30:00 PM	1.11989	1.11992			N/A
4/2/2019	EURUSD	3:30:00 PM	1.1207	1.12063			N/A
4/2/2019	EURUSD.fx	9:30:00 AM	1.12029	1.12014			N/A
4/2/2019	EURUSD.fx	11:30:00 AM	1.12013	1.12007			N/A
4/2/2019	EURUSD.fx	1:30:00 PM	1.12009	1.12001			N/A
4/2/2019	EURUSD.fx	3:30:00 PM	1.12088	1.12073			N/A
4/2/2019	EURZAR	9:30:00 AM	15.9284	15.9366			N/A
4/2/2019	EURZAR	11:30:00 AM	15.9113	15.9278			N/A
4/2/2019	EURZAR	1:30:00 PM	15.8703	15.8877			N/A
4/2/2019	EURZAR	3:30:00 PM	15.8259	15.8359			N/A
4/2/2019	EURZAR.fx	9:30:00 AM	15.92818	15.93624			N/A
4/2/2019	EURZAR.fx	11:30:00 AM	15.91073	15.92847			N/A
4/2/2019	EURZAR.fx	1:30:00 PM	15.86973	15.88829			N/A
4/2/2019	EURZAR.fx	3:30:00 PM	15.82474	15.83701			N/A

4/2/2019	GBPAUD	9:30:00 AM	1.84374	1.84421			N/A
4/2/2019	GBPAUD	11:30:00 AM	1.84595	1.84603			N/A
4/2/2019	GBPAUD	1:30:00 PM	1.84433	1.84455			N/A
4/2/2019	GBPAUD	3:30:00 PM	1.84076	1.84127			N/A
4/2/2019	GBPAUD.fx	9:30:00 AM	1.84411	1.8438			N/A
4/2/2019	GBPAUD.fx	11:30:00 AM	1.8463	1.84579			N/A
4/2/2019	GBPAUD.fx	1:30:00 PM	1.84471	1.84418			N/A
4/2/2019	GBPAUD.fx	3:30:00 PM	1.84105	1.84092			N/A
4/2/2019	GBPCAD	9:30:00 AM	1.73816	1.73868			N/A
4/2/2019	GBPCAD	11:30:00 AM	1.74083	1.74081			N/A
4/2/2019	GBPCAD	1:30:00 PM	1.73892	1.73937			N/A
4/2/2019	GBPCAD	3:30:00 PM	1.73554	1.73604			N/A
4/2/2019	GBPCAD.fx	9:30:00 AM	1.73854	1.7383			N/A
4/2/2019	GBPCAD.fx	11:30:00 AM	1.74121	1.74053			N/A
4/2/2019	GBPCAD.fx	1:30:00 PM	1.73931	1.73901			N/A
4/2/2019	GBPCAD.fx	3:30:00 PM	1.73588	1.73565			N/A
4/2/2019	GBPCHF	9:30:00 AM	1.30413	1.30441			N/A
4/2/2019	GBPCHF	11:30:00 AM	1.30526	1.30513			N/A
4/2/2019	GBPCHF	1:30:00 PM	1.30474	1.3048			N/A
4/2/2019	GBPCHF	3:30:00 PM	1.30192	1.30198			N/A
4/2/2019	GBPCHF.fx	9:30:00 AM	1.30429	1.30422			N/A
4/2/2019	GBPCHF.fx	11:30:00 AM	1.30543	1.305			N/A
4/2/2019	GBPCHF.fx	1:30:00 PM	1.30491	1.30462			N/A
4/2/2019	GBPCHF.fx	3:30:00 PM	1.30197	1.30182			N/A
4/2/2019	GBPCZK	9:30:00 AM	30.005	30.018			N/A
4/2/2019	GBPCZK	11:30:00 AM	29.989	29.998			N/A
4/2/2019	GBPCZK	1:30:00 PM	29.963	29.973			N/A
4/2/2019	GBPCZK	3:30:00 PM	29.905	29.913			N/A
4/2/2019	GBPDKK	9:30:00 AM	8.694	8.704			N/A
4/2/2019	GBPDKK	11:30:00 AM	8.7	8.709			N/A
4/2/2019	GBPDKK	1:30:00 PM	8.695	8.703			N/A
4/2/2019	GBPDKK	3:30:00 PM	8.676	8.684			N/A
4/2/2019	GBPDKK.fx	9:30:00 AM	8.6923	8.7047			N/A
4/2/2019	GBPDKK.fx	11:30:00 AM	8.6986	8.7087			N/A

4/2/2019	GBPDKK.fx	1:30:00 PM	8.6927	8.7037			N/A
4/2/2019	GBPDKK.fx	3:30:00 PM	8.6733	8.6844			N/A
4/2/2019	GBPHKD	9:30:00 AM	10.2431	10.2472			N/A
4/2/2019	GBPHKD	11:30:00 AM	10.2489	10.2498			N/A
4/2/2019	GBPHKD	1:30:00 PM	10.2416	10.2438			N/A
4/2/2019	GBPHKD	3:30:00 PM	10.2252	10.2283			N/A
4/2/2019	GBPHUF	9:30:00 AM	374.6	374.8			N/A
4/2/2019	GBPHUF	11:30:00 AM	375.26	375.37			N/A
4/2/2019	GBPHUF	1:30:00 PM	374.64	375.01			N/A
4/2/2019	GBPHUF	3:30:00 PM	373.56	373.82			N/A
4/2/2019	GBPJPY	9:30:00 AM	145.353	145.374	100	3100	N/A
4/2/2019	GBPJPY	11:30:00 AM	145.46	145.447			N/A
4/2/2019	GBPJPY	1:30:00 PM	145.308	145.309			N/A
4/2/2019	GBPJPY	3:30:00 PM	145.117	145.097			N/A
4/2/2019	GBPJPY.fx	9:30:00 AM	145.371	145.355			N/A
4/2/2019	GBPJPY.fx	11:30:00 AM	145.475	145.436			N/A
4/2/2019	GBPJPY.fx	1:30:00 PM	145.325	145.291			N/A
4/2/2019	GBPJPY.fx	3:30:00 PM	145.127	145.082			N/A
4/2/2019	GBPMXN	9:30:00 AM	25.0371	25.0477			N/A
4/2/2019	GBPMXN	11:30:00 AM	25.0518	25.042			N/A
4/2/2019	GBPMXN	1:30:00 PM	24.9848	24.9875			N/A
4/2/2019	GBPMXN	3:30:00 PM	24.8819	24.8814			N/A
4/2/2019	GBPNOK	9:30:00 AM	11.2213	11.2308			N/A
4/2/2019	GBPNOK	11:30:00 AM	11.236	11.2426			N/A
4/2/2019	GBPNOK	1:30:00 PM	11.2314	11.2403			N/A
4/2/2019	GBPNOK	3:30:00 PM	11.2145	11.2219			N/A
4/2/2019	GBPNOK.fx	9:30:00 AM	11.22592	11.22672			N/A
4/2/2019	GBPNOK.fx	11:30:00 AM	11.2401	11.23926			N/A
4/2/2019	GBPNOK.fx	1:30:00 PM	11.23602	11.23565			N/A
4/2/2019	GBPNOK.fx	3:30:00 PM	11.21597	11.21736			N/A
4/2/2019	GBPNZD	9:30:00 AM	1.92562	1.92592			N/A
4/2/2019	GBPNZD	11:30:00 AM	1.92927	1.92934			N/A
4/2/2019	GBPNZD	1:30:00 PM	1.92858	1.92864			N/A
4/2/2019	GBPNZD	3:30:00 PM	1.92545	1.92588			N/A

4/2/2019	GBPNZD.fx	9:30:00 AM	1.92597	1.9256			N/A
4/2/2019	GBPNZD.fx	11:30:00 AM	1.92961	1.92909			N/A
4/2/2019	GBPNZD.fx	1:30:00 PM	1.92895	1.92825			N/A
4/2/2019	GBPNZD.fx	3:30:00 PM	1.92581	1.92555			N/A
4/2/2019	GBPPLN	9:30:00 AM	5.0079	5.0093			N/A
4/2/2019	GBPPLN	11:30:00 AM	5.0144	5.0141			N/A
4/2/2019	GBPPLN	1:30:00 PM	5.0096	5.0102			N/A
4/2/2019	GBPPLN	3:30:00 PM	4.9954	4.9933			N/A
4/2/2019	GBPPLN.fx	9:30:00 AM	5.00527	5.01204			N/A
4/2/2019	GBPPLN.fx	11:30:00 AM	5.01197	5.01661			N/A
4/2/2019	GBPPLN.fx	1:30:00 PM	5.00725	5.01246			N/A
4/2/2019	GBPPLN.fx	3:30:00 PM	4.99213	4.9958			N/A
4/2/2019	GBPSEK	9:30:00 AM	12.1351	12.143			N/A
4/2/2019	GBPSEK	11:30:00 AM	12.1532	12.1571			N/A
4/2/2019	GBPSEK	1:30:00 PM	12.163	12.1689			N/A
4/2/2019	GBPSEK	3:30:00 PM	12.136	12.1422			N/A
4/2/2019	GBPSEK.fx	9:30:00 AM	12.13142	12.14697			N/A
4/2/2019	GBPSEK.fx	11:30:00 AM	12.14865	12.16229			N/A
4/2/2019	GBPSEK.fx	1:30:00 PM	12.15894	12.17268			N/A
4/2/2019	GBPSEK.fx	3:30:00 PM	12.13028	12.14634			N/A
4/2/2019	GBPSGD	9:30:00 AM	1.7696	1.7701			N/A
4/2/2019	GBPSGD	11:30:00 AM	1.7708	1.7709			N/A
4/2/2019	GBPSGD	1:30:00 PM	1.7692	1.7694			N/A
4/2/2019	GBPSGD	3:30:00 PM	1.766	1.7664			N/A
4/2/2019	GBPSGD.fx	9:30:00 AM	1.76769	1.77191			N/A
4/2/2019	GBPSGD.fx	11:30:00 AM	1.76891	1.77284			N/A
4/2/2019	GBPSGD.fx	1:30:00 PM	1.76729	1.77121			N/A
4/2/2019	GBPSGD.fx	3:30:00 PM	1.76395	1.76822			N/A
4/2/2019	GBPUSD	9:30:00 AM	1.30555	1.30541			N/A
4/2/2019	GBPUSD	11:30:00 AM	1.30627	1.30577			N/A
4/2/2019	GBPUSD	1:30:00 PM	1.30533	1.30502			N/A
4/2/2019	GBPUSD	3:30:00 PM	1.30331	1.30292			N/A
4/2/2019	GBPUSD.fx	9:30:00 AM	1.30558	1.30535			N/A
4/2/2019	GBPUSD.fx	11:30:00 AM	1.30629	1.30581			N/A

4/2/2019	GBPUSD.fx	1:30:00 PM	1.30538	1.30498			N/A
4/2/2019	GBPUSD.fx	3:30:00 PM	1.30331	1.30288			N/A
4/2/2019	GBPZAR	9:30:00 AM	18.5589	18.5765			N/A
4/2/2019	GBPZAR	11:30:00 AM	18.5522	18.5719			N/A
4/2/2019	GBPZAR	1:30:00 PM	18.491	18.5162			N/A
4/2/2019	GBPZAR	3:30:00 PM	18.3964	18.412			N/A
4/2/2019	GBPZAR.fx	9:30:00 AM	18.566	18.5694			N/A
4/2/2019	GBPZAR.fx	11:30:00 AM	18.5598	18.566			N/A
4/2/2019	GBPZAR.fx	1:30:00 PM	18.4975	18.5097			N/A
4/2/2019	GBPZAR.fx	3:30:00 PM	18.4017	18.4053			N/A
4/2/2019	GOLD	9:30:00 AM	1288.11	1288.28			N/A
4/2/2019	GOLD	11:30:00 AM	1286.78	1287.08			N/A
4/2/2019	GOLD	1:30:00 PM	1287.66	1288.04			N/A
4/2/2019	GOLD	3:30:00 PM	1289.71	1289.05			N/A
4/2/2019	HKDJPY	9:30:00 AM	14.18	14.19			N/A
4/2/2019	HKDJPY	11:30:00 AM	14.19	14.2			N/A
4/2/2019	HKDJPY	1:30:00 PM	14.18	14.19			N/A
4/2/2019	HKDJPY	3:30:00 PM	14.19	14.19			N/A
4/2/2019	HKDJPY.fx	9:30:00 AM	14.18	14.187			N/A
4/2/2019	HKDJPY.fx	11:30:00 AM	14.183	14.19			N/A
4/2/2019	HKDJPY.fx	1:30:00 PM	14.179	14.186			N/A
4/2/2019	HKDJPY.fx	3:30:00 PM	14.181	14.187			N/A
4/2/2019	HUFJPY	9:30:00 AM	0.388	0.3883			N/A
4/2/2019	HUFJPY	11:30:00 AM	0.3875	0.3878			N/A
4/2/2019	HUFJPY	1:30:00 PM	0.3877	0.388			N/A
4/2/2019	HUFJPY	3:30:00 PM	0.3882	0.3884			N/A
4/2/2019	JP225.i	9:30:00 AM	21485.15	21500.15			N/A
4/2/2019	JP225.i	11:30:00 AM	21510.15	21520.15			N/A
4/2/2019	JP225.i	1:30:00 PM	21520.15	21530.15			N/A
4/2/2019	JP225.i	3:30:00 PM	21535.15	21549.32			N/A
4/2/2019	MXNJPY	9:30:00 AM					N/A
4/2/2019	MXNJPY	11:30:00 AM	5.81	5.81			N/A
4/2/2019	MXNJPY	1:30:00 PM	5.82	5.82			N/A
4/2/2019	MXNJPY	3:30:00 PM	5.83	5.84			N/A

4/2/2019	NASDAQ.i	9:30:00 AM					N/A
4/2/2019	NASDAQ.i	11:30:00 AM					N/A
4/2/2019	NASDAQ.i	1:30:00 PM					N/A
4/2/2019	NASDAQ.i	3:30:00 PM					N/A
4/2/2019	NOKJPY	9:30:00 AM	12.94	12.97			N/A
4/2/2019	NOKJPY	11:30:00 AM	12.92	12.96			N/A
4/2/2019	NOKJPY	1:30:00 PM	12.91	12.95			N/A
4/2/2019	NOKJPY	3:30:00 PM	12.93	12.95			N/A
4/2/2019	NOKJPY.fx	9:30:00 AM	12.945	12.952			N/A
4/2/2019	NOKJPY.fx	11:30:00 AM	12.936	12.945			N/A
4/2/2019	NOKJPY.fx	1:30:00 PM	12.93	12.937			N/A
4/2/2019	NOKJPY.fx	3:30:00 PM	12.933	12.939			N/A
4/2/2019	NZDCAD	9:30:00 AM	0.90234	0.90306			N/A
4/2/2019	NZDCAD	11:30:00 AM	0.90203	0.90269			N/A
4/2/2019	NZDCAD	1:30:00 PM	0.90154	0.90208			N/A
4/2/2019	NZDCAD	3:30:00 PM	0.90114	0.90156			N/A
4/2/2019	NZDCAD.fx	9:30:00 AM	0.90266	0.90273			N/A
4/2/2019	NZDCAD.fx	11:30:00 AM	0.90237	0.90236			N/A
4/2/2019	NZDCAD.fx	1:30:00 PM	0.90187	0.90176			N/A
4/2/2019	NZDCAD.fx	3:30:00 PM	0.9014	0.90122			N/A
4/2/2019	NZDCHF	9:30:00 AM	0.67692	0.67761			N/A
4/2/2019	NZDCHF	11:30:00 AM	0.6762	0.67684			N/A
4/2/2019	NZDCHF	1:30:00 PM	0.67627	0.67689			N/A
4/2/2019	NZDCHF	3:30:00 PM	0.67578	0.67627			N/A
4/2/2019	NZDCHF.fx	9:30:00 AM	0.67724	0.67728			N/A
4/2/2019	NZDCHF.fx	11:30:00 AM	0.67653	0.67649			N/A
4/2/2019	NZDCHF.fx	1:30:00 PM	0.67662	0.67655			N/A
4/2/2019	NZDCHF.fx	3:30:00 PM	0.67606	0.67592			N/A
4/2/2019	NZDCZK	9:30:00 AM	15.579	15.59			N/A
4/2/2019	NZDCZK	11:30:00 AM	15.541	15.551			N/A
4/2/2019	NZDCZK	1:30:00 PM	15.536	15.544			N/A
4/2/2019	NZDCZK	3:30:00 PM	15.528	15.533			N/A
4/2/2019	NZDDKK	9:30:00 AM	4.514	4.518			N/A
4/2/2019	NZDDKK	11:30:00 AM	4.509	4.512			N/A

4/2/2019	NZDDKK	1:30:00 PM					N/A
4/2/2019	NZDDKK	3:30:00 PM	4.504	4.508			N/A
4/2/2019	NZDHKD	9:30:00 AM	5.318	5.3208			N/A
4/2/2019	NZDHKD	11:30:00 AM	5.3104	5.3125			N/A
4/2/2019	NZDHKD	1:30:00 PM	5.3099	5.312			N/A
4/2/2019	NZDHKD	3:30:00 PM	5.3087	5.3112			N/A
4/2/2019	NZDHUF	9:30:00 AM	194.46	194.66			N/A
4/2/2019	NZDHUF	11:30:00 AM	194.45	194.63			N/A
4/2/2019	NZDHUF	1:30:00 PM	194.22	194.49			N/A
4/2/2019	NZDHUF	3:30:00 PM	193.97	194.16			N/A
4/2/2019	NZDJPY	9:30:00 AM	75.446	75.51			N/A
4/2/2019	NZDJPY	11:30:00 AM	75.358	75.416			N/A
4/2/2019	NZDJPY	1:30:00 PM	75.322	75.381			N/A
4/2/2019	NZDJPY	3:30:00 PM	75.327	75.366			N/A
4/2/2019	NZDJPY.fx	9:30:00 AM	75.477	75.479			N/A
4/2/2019	NZDJPY.fx	11:30:00 AM	75.389	75.384			N/A
4/2/2019	NZDJPY.fx	1:30:00 PM	75.351	75.349			N/A
4/2/2019	NZDJPY.fx	3:30:00 PM	75.355	75.334			N/A
4/2/2019	NZDMXN	9:30:00 AM	13	13.006			N/A
4/2/2019	NZDMXN	11:30:00 AM	12.9821	12.9804			N/A
4/2/2019	NZDMXN	1:30:00 PM	12.9575	12.9566			N/A
4/2/2019	NZDMXN	3:30:00 PM	12.9202	12.9201			N/A
4/2/2019	NZDNOK	9:30:00 AM	5.8251	5.8262			N/A
4/2/2019	NZDNOK	11:30:00 AM	5.8218	5.8225			N/A
4/2/2019	NZDNOK	1:30:00 PM	5.8226	5.826			N/A
4/2/2019	NZDNOK	3:30:00 PM	5.8206	5.8228			N/A
4/2/2019	NZDPLN	9:30:00 AM	2.5992	2.6006			N/A
4/2/2019	NZDPLN	11:30:00 AM	2.5974	2.5987			N/A
4/2/2019	NZDPLN	1:30:00 PM	2.5965	2.5976			N/A
4/2/2019	NZDPLN	3:30:00 PM	2.5927	2.5927			N/A
4/2/2019	NZDSEK	9:30:00 AM	6.2975	6.3032			N/A
4/2/2019	NZDSEK	11:30:00 AM	6.2949	6.3008			N/A
4/2/2019	NZDSEK	1:30:00 PM	6.3031	6.3092			N/A
4/2/2019	NZDSEK	3:30:00 PM	6.2986	6.3044			N/A

4/2/2019	NZDSGD	9:30:00 AM	0.9188	0.9193			N/A
4/2/2019	NZDSGD	11:30:00 AM	0.9176	0.9181			N/A
4/2/2019	NZDSGD	1:30:00 PM	0.9172	0.9177			N/A
4/2/2019	NZDSGD	3:30:00 PM	0.917	0.9174			N/A
4/2/2019	NZDSGD.fx	9:30:00 AM	0.91873	0.91928			N/A
4/2/2019	NZDSGD.fx	11:30:00 AM	0.91758	0.91804			N/A
4/2/2019	NZDSGD.fx	1:30:00 PM	0.91717	0.91766			N/A
4/2/2019	NZDSGD.fx	3:30:00 PM	0.91686	0.91721			N/A
4/2/2019	NZDUSD	9:30:00 AM	0.67778	0.67786			N/A
4/2/2019	NZDUSD	11:30:00 AM	0.67685	0.67689			N/A
4/2/2019	NZDUSD	1:30:00 PM	0.67668	0.67676			N/A
4/2/2019	NZDUSD	3:30:00 PM	0.67669	0.67652			N/A
4/2/2019	NZDUSD.fx	9:30:00 AM	0.67784	0.67789			N/A
4/2/2019	NZDUSD.fx	11:30:00 AM	0.67692	0.67691			N/A
4/2/2019	NZDUSD.fx	1:30:00 PM	0.67676	0.67679			N/A
4/2/2019	NZDUSD.fx	3:30:00 PM	0.67674	0.67653			N/A
4/2/2019	NZDZAR	9:30:00 AM	9.6271	9.641			N/A
4/2/2019	NZDZAR	11:30:00 AM	9.6069	9.6199			N/A
4/2/2019	NZDZAR	1:30:00 PM	9.5821	9.5982			N/A
4/2/2019	NZDZAR	3:30:00 PM	9.5461	9.5551			N/A
4/2/2019	SEKJPY	9:30:00 AM	11.98	11.98			N/A
4/2/2019	SEKJPY	11:30:00 AM	11.97	11.97			N/A
4/2/2019	SEKJPY	1:30:00 PM	11.95	11.95			N/A
4/2/2019	SEKJPY	3:30:00 PM	11.95	11.96			N/A
4/2/2019	SEKJPY.fx	9:30:00 AM	11.965	11.983			N/A
4/2/2019	SEKJPY.fx	11:30:00 AM	11.956	11.974			N/A
4/2/2019	SEKJPY.fx	1:30:00 PM	11.935	11.953			N/A
4/2/2019	SEKJPY.fx	3:30:00 PM	11.943	11.962			N/A
4/2/2019	SGDJPY	9:30:00 AM	82.14	82.14			N/A
4/2/2019	SGDJPY	11:30:00 AM	82.11	82.14			N/A
4/2/2019	SGDJPY	1:30:00 PM	82.13	82.13			N/A
4/2/2019	SGDJPY	3:30:00 PM	82.13	82.15			N/A
4/2/2019	SILVER	9:30:00 AM	14.88	15.26			N/A
4/2/2019	SILVER	11:30:00 AM	14.84	15.22			N/A

4/2/2019	SILVER	1:30:00 PM	14.85	15.23			N/A
4/2/2019	SILVER	3:30:00 PM	14.81	15.17			N/A
4/2/2019	SPX500.i	9:30:00 AM	2863.07	2864.08			N/A
4/2/2019	SPX500.i	11:30:00 AM	2864.43	2865.06			N/A
4/2/2019	SPX500.i	1:30:00 PM	2867.28	2867.83			N/A
4/2/2019	SPX500.i	3:30:00 PM	2869.28	2870.08			N/A
4/2/2019	UK100.i	9:30:00 AM	7345.78	7347.44			N/A
4/2/2019	UK100.i	11:30:00 AM	7358.44	7358.03			N/A
4/2/2019	UK100.i	1:30:00 PM	7379.94	7380.69			N/A
4/2/2019	UK100.i	3:30:00 PM	7403.69	7401.86			N/A
4/2/2019	USDCAD	9:30:00 AM	1.33171	1.33172			N/A
4/2/2019	USDCAD	11:30:00 AM	1.33302	1.33301			N/A
4/2/2019	USDCAD	1:30:00 PM	1.33261	1.33251			N/A
4/2/2019	USDCAD	3:30:00 PM	1.33211	1.33201			N/A
4/2/2019	USDCAD.fx	9:30:00 AM	1.33173	1.33168			N/A
4/2/2019	USDCAD.fx	11:30:00 AM	1.33304	1.33298			N/A
4/2/2019	USDCAD.fx	1:30:00 PM	1.33264	1.33248			N/A
4/2/2019	USDCAD.fx	3:30:00 PM	1.33214	1.33203			N/A
4/2/2019	USDCHF	9:30:00 AM	0.99906	0.99915			N/A
4/2/2019	USDCHF	11:30:00 AM	0.99937	0.99948			N/A
4/2/2019	USDCHF	1:30:00 PM	0.99967	0.99977			N/A
4/2/2019	USDCHF	3:30:00 PM	0.99906	0.9991			N/A
4/2/2019	USDCHF.fx	9:30:00 AM	0.99909	0.99911			N/A
4/2/2019	USDCHF.fx	11:30:00 AM	0.99941	0.99942			N/A
4/2/2019	USDCHF.fx	1:30:00 PM	0.9997	0.99971			N/A
4/2/2019	USDCHF.fx	3:30:00 PM	0.99909	0.99906			N/A
4/2/2019	USDCZK	9:30:00 AM	23.002	23.021			N/A
4/2/2019	USDCZK	11:30:00 AM	22.976	22.998			N/A
4/2/2019	USDCZK	1:30:00 PM	22.973	22.993			N/A
4/2/2019	USDCZK	3:30:00 PM	22.964	22.975			N/A
4/2/2019	USDCZK.fx	9:30:00 AM	23.0093	23.0135			N/A
4/2/2019	USDCZK.fx	11:30:00 AM	22.9851	22.9898			N/A
4/2/2019	USDCZK.fx	1:30:00 PM	22.9808	22.9847			N/A
4/2/2019	USDCZK.fx	3:30:00 PM	22.9718	22.9672			N/A

4/2/2019	USDDKK	9:30:00 AM	6.6626	6.6657			N/A
4/2/2019	USDDKK	11:30:00 AM	6.664	6.6669			N/A
4/2/2019	USDDKK	1:30:00 PM	6.6641	6.6672			N/A
4/2/2019	USDDKK	3:30:00 PM	6.6593	6.6624			N/A
4/2/2019	USDDKK.fx	9:30:00 AM	6.66303	6.66374			N/A
4/2/2019	USDDKK.fx	11:30:00 AM	6.66371	6.66487			N/A
4/2/2019	USDDKK.fx	1:30:00 PM	6.66408	6.66512			N/A
4/2/2019	USDDKK.fx	3:30:00 PM	6.65986	6.66032			N/A
4/2/2019	USDHKD	9:30:00 AM	7.8495	7.8493			N/A
4/2/2019	USDHKD	11:30:00 AM	7.8494	7.8494			N/A
4/2/2019	USDHKD	1:30:00 PM	7.8495	7.8498			N/A
4/2/2019	USDHKD	3:30:00 PM	7.8497	7.85			N/A
4/2/2019	USDHKD.fx	9:30:00 AM	7.84951	7.85			N/A
4/2/2019	USDHKD.fx	11:30:00 AM					N/A
4/2/2019	USDHKD.fx	1:30:00 PM					N/A
4/2/2019	USDHKD.fx	3:30:00 PM	7.84966	7.85016			N/A
4/2/2019	USDHUF	9:30:00 AM	287.03	287.45			N/A
4/2/2019	USDHUF	11:30:00 AM	287.38	287.82			N/A
4/2/2019	USDHUF	1:30:00 PM	287.1	287.54			N/A
4/2/2019	USDHUF	3:30:00 PM	286.81	287.21			N/A
4/2/2019	USDHUF.fx	9:30:00 AM	287.223	287.256			N/A
4/2/2019	USDHUF.fx	11:30:00 AM	287.584	287.619			N/A
4/2/2019	USDHUF.fx	1:30:00 PM	287.294	287.356			N/A
4/2/2019	USDHUF.fx	3:30:00 PM	286.995	287.034			N/A
4/2/2019	USDINR	9:30:00 AM	64.14	74.11			N/A
4/2/2019	USDINR	11:30:00 AM	64.09	74.08			N/A
4/2/2019	USDINR	1:30:00 PM					N/A
4/2/2019	USDINR	3:30:00 PM					N/A
4/2/2019	USDJPY	9:30:00 AM	111.339	111.353			N/A
4/2/2019	USDJPY	11:30:00 AM	111.367	111.374			N/A
4/2/2019	USDJPY	1:30:00 PM	111.327	111.342			N/A
4/2/2019	USDJPY	3:30:00 PM	111.352	111.338			N/A
4/2/2019	USDJPY.fx	9:30:00 AM	111.345	111.347			N/A
4/2/2019	USDJPY.fx	11:30:00 AM	111.373	111.367			N/A

4/2/2019	USDJPY.fx	1:30:00 PM	111.336	111.335			N/A
4/2/2019	USDJPY.fx	3:30:00 PM	111.355	111.335			N/A
4/2/2019	USDMXN	9:30:00 AM	19.186	19.194			N/A
4/2/2019	USDMXN	11:30:00 AM	19.188	19.183			N/A
4/2/2019	USDMXN	1:30:00 PM	19.152	19.152			N/A
4/2/2019	USDMXN	3:30:00 PM	19.106	19.101			N/A
4/2/2019	USDMXN.fx	9:30:00 AM	19.1887	19.1904			N/A
4/2/2019	USDMXN.fx	11:30:00 AM	19.1908	19.1795			N/A
4/2/2019	USDMXN.fx	1:30:00 PM	19.1555	19.149			N/A
4/2/2019	USDMXN.fx	3:30:00 PM	19.1094	19.0981			N/A
4/2/2019	USDNOK	9:30:00 AM	8.596	8.6035			N/A
4/2/2019	USDNOK	11:30:00 AM	8.6024	8.6107			N/A
4/2/2019	USDNOK	1:30:00 PM	8.6051	8.6134			N/A
4/2/2019	USDNOK	3:30:00 PM	8.6055	8.6116			N/A
4/2/2019	USDNOK.fx	9:30:00 AM	8.59985	8.59912			N/A
4/2/2019	USDNOK.fx	11:30:00 AM	8.60618	8.6063			N/A
4/2/2019	USDNOK.fx	1:30:00 PM	8.60906	8.60878			N/A
4/2/2019	USDNOK.fx	3:30:00 PM	8.60901	8.60739			N/A
4/2/2019	USDPLN	9:30:00 AM	3.836	3.8372			N/A
4/2/2019	USDPLN	11:30:00 AM	3.8389	3.8403			N/A
4/2/2019	USDPLN	1:30:00 PM	3.8381	3.8391			N/A
4/2/2019	USDPLN	3:30:00 PM	3.8326	3.8325			N/A
4/2/2019	USDPLN.fx	9:30:00 AM	3.83492	3.83816			N/A
4/2/2019	USDPLN.fx	11:30:00 AM	3.83801	3.84106			N/A
4/2/2019	USDPLN.fx	1:30:00 PM	3.83723	3.83991			N/A
4/2/2019	USDPLN.fx	3:30:00 PM	3.83143	3.83325			N/A
4/2/2019	USDRUB	9:30:00 AM					N/A
4/2/2019	USDRUB	11:30:00 AM	65.277	65.662			N/A
4/2/2019	USDRUB	1:30:00 PM	65.225	65.611			N/A
4/2/2019	USDRUB	3:30:00 PM	65.209	65.572			N/A
4/2/2019	USDSEK	9:30:00 AM	9.2968	9.2999			N/A
4/2/2019	USDSEK	11:30:00 AM	9.3052	9.3083			N/A
4/2/2019	USDSEK	1:30:00 PM	9.3194	9.3218			N/A
4/2/2019	USDSEK	3:30:00 PM	9.314	9.3166			N/A

4/2/2019	USDSEK.fx	9:30:00 AM	9.29934	9.29845			N/A
4/2/2019	USDSEK.fx	11:30:00 AM	9.30761	9.30732			N/A
4/2/2019	USDSEK.fx	1:30:00 PM	9.32171	9.32049			N/A
4/2/2019	USDSEK.fx	3:30:00 PM	9.3164	9.31535			N/A
4/2/2019	USDSGD	9:30:00 AM	1.3556	1.3559			N/A
4/2/2019	USDSGD	11:30:00 AM	1.3557	1.3559			N/A
4/2/2019	USDSGD	1:30:00 PM	1.3554	1.3558			N/A
4/2/2019	USDSGD	3:30:00 PM	1.3552	1.3555			N/A
4/2/2019	USDSGD.fx	9:30:00 AM	1.35547	1.35593			N/A
4/2/2019	USDSGD.fx	11:30:00 AM	1.35564	1.35613			N/A
4/2/2019	USDSGD.fx	1:30:00 PM	1.35533	1.3558			N/A
4/2/2019	USDSGD.fx	3:30:00 PM	1.35518	1.35553			N/A
4/2/2019	USDZAR	9:30:00 AM	14.2172	14.2281			N/A
4/2/2019	USDZAR	11:30:00 AM	14.2064	14.2203			N/A
4/2/2019	USDZAR	1:30:00 PM	14.1687	14.1844			N/A
4/2/2019	USDZAR	3:30:00 PM	14.1214	14.1287			N/A
4/2/2019	USDZAR.fx	9:30:00 AM	14.22337	14.22215			N/A
4/2/2019	USDZAR.fx	11:30:00 AM	14.21307	14.2143			N/A
4/2/2019	USDZAR.fx	1:30:00 PM	14.17442	14.17934			N/A
4/2/2019	USDZAR.fx	3:30:00 PM	14.12695	14.12343			N/A
4/2/2019	XAUUSD	9:30:00 AM	1288.1	1288.2			N/A
4/2/2019	XAUUSD	11:30:00 AM	1286.79	1287.01			N/A
4/2/2019	XAUUSD	1:30:00 PM	1287.65	1287.93			N/A
4/2/2019	XAUUSD	3:30:00 PM	1289.69	1288.96			N/A
4/2/2019	ZARJPY	9:30:00 AM	7.81	7.83			N/A
4/2/2019	ZARJPY	11:30:00 AM	7.81	7.84			N/A
4/2/2019	ZARJPY	1:30:00 PM	7.84	7.85			N/A
4/2/2019	ZARJPY	3:30:00 PM	7.87	7.88			N/A
4/2/2019	ZARJPY.fx	9:30:00 AM	7.828	7.83			N/A
4/2/2019	ZARJPY.fx	11:30:00 AM	7.834	7.836			N/A
4/2/2019	ZARJPY.fx	1:30:00 PM	7.851	7.856			N/A
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4/3/2019	#Litecoin	11:30:00 AM	80.15	82.08			N/A
4/3/2019	#Litecoin	1:30:00 PM	81.58	83.3			N/A
4/3/2019	#Litecoin	3:30:00 PM	83.58	84.68			N/A
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4/3/2019	#LLOY	1:30:00 PM					N/A
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4/3/2019	#LNKD	11:30:00 AM					N/A
4/3/2019	#LNKD	1:30:00 PM					N/A
4/3/2019	#LNKD	3:30:00 PM					N/A

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4/3/2019	#NFLX	3:30:00 PM					N/A
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4/3/2019	#NG.f	11:30:00 AM	2.671	2.687			N/A
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4/3/2019	#NG.f	3:30:00 PM	2.663	2.681			N/A
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4/3/2019	#QCOM	3:30:00 PM					N/A
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4/3/2019	#QQQ	1:30:00 PM					N/A
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4/3/2019	#Ripple	11:30:00 AM	0.347	0.3557			N/A
4/3/2019	#Ripple	1:30:00 PM	0.351	0.3604			N/A
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4/3/2019	#SBUX	3:30:00 PM					N/A
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4/3/2019	#SNE	1:30:00 PM					N/A
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4/3/2019	#SPY	1:30:00 PM					N/A
4/3/2019	#SPY	3:30:00 PM					N/A
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4/3/2019	#TWTR	3:30:00 PM					N/A
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4/3/2019	#UBS	3:30:00 PM					N/A
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4/3/2019	#UPS	11:30:00 AM					N/A
4/3/2019	#UPS	1:30:00 PM					N/A
4/3/2019	#UPS	3:30:00 PM					N/A
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4/3/2019	#UTX	3:30:00 PM					N/A
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4/3/2019	#YHOO	1:30:00 PM					N/A
4/3/2019	#YHOO	3:30:00 PM					N/A
4/3/2019	#ZNGA	9:30:00 AM					N/A
4/3/2019	#ZNGA	11:30:00 AM					N/A
4/3/2019	#ZNGA	1:30:00 PM					N/A
4/3/2019	#ZNGA	3:30:00 PM					N/A

4/3/2019	AUDCAD	9:30:00 AM	0.94635	0.94691			N/A
4/3/2019	AUDCAD	11:30:00 AM	0.94674	0.94731			N/A
4/3/2019	AUDCAD	1:30:00 PM	0.94729	0.94783			N/A
4/3/2019	AUDCAD	3:30:00 PM	0.94771	0.94842			N/A
4/3/2019	AUDCAD.fx	9:30:00 AM	0.94668	0.94661			N/A
4/3/2019	AUDCAD.fx	11:30:00 AM	0.94707	0.94696			N/A
4/3/2019	AUDCAD.fx	1:30:00 PM	0.94761	0.94748			N/A
4/3/2019	AUDCAD.fx	3:30:00 PM	0.94804	0.94807			N/A
4/3/2019	AUDCHF	9:30:00 AM	0.70978	0.71037			N/A
4/3/2019	AUDCHF	11:30:00 AM	0.70928	0.70985			N/A
4/3/2019	AUDCHF	1:30:00 PM	0.70944	0.71005			N/A
4/3/2019	AUDCHF	3:30:00 PM	0.70938	0.71007			N/A
4/3/2019	AUDCHF.fx	9:30:00 AM	0.71011	0.71003			N/A
4/3/2019	AUDCHF.fx	11:30:00 AM	0.70962	0.7095			N/A
4/3/2019	AUDCHF.fx	1:30:00 PM	0.70978	0.70971			N/A
4/3/2019	AUDCHF.fx	3:30:00 PM	0.70972	0.70972			N/A
4/3/2019	AUDCZK	9:30:00 AM	16.288	16.3			N/A
4/3/2019	AUDCZK	11:30:00 AM	16.258	16.273			N/A
4/3/2019	AUDCZK	1:30:00 PM	16.247	16.261			N/A
4/3/2019	AUDCZK	3:30:00 PM	16.269	16.286			N/A
4/3/2019	AUDDKK	9:30:00 AM	4.7292	4.7335			N/A
4/3/2019	AUDDKK	11:30:00 AM	4.7259	4.7298			N/A
4/3/2019	AUDDKK	1:30:00 PM	4.7242	4.7283			N/A
4/3/2019	AUDDKK	3:30:00 PM	4.727	4.7314			N/A
4/3/2019	AUDHKD	9:30:00 AM	5.5801	5.584			N/A
4/3/2019	AUDHKD	11:30:00 AM	5.5831	5.5859			N/A
4/3/2019	AUDHKD	1:30:00 PM	5.5871	5.5902			N/A
4/3/2019	AUDHKD	3:30:00 PM	5.5865	5.5905			N/A
4/3/2019	AUDHUF	9:30:00 AM	203.3	203.41			N/A
4/3/2019	AUDHUF	11:30:00 AM	202.52	202.75			N/A
4/3/2019	AUDHUF	1:30:00 PM	202.24	202.45			N/A
4/3/2019	AUDHUF	3:30:00 PM	202.66	202.81			N/A
4/3/2019	AUDJPY	9:30:00 AM	79.285	79.327			N/A
4/3/2019	AUDJPY	11:30:00 AM	79.346	79.393			N/A

4/3/2019	AUDJPY	1:30:00 PM	79.342	79.397			N/A
4/3/2019	AUDJPY	3:30:00 PM	79.351	79.417			N/A
4/3/2019	AUDJPY.fx	9:30:00 AM	79.318	79.293			N/A
4/3/2019	AUDJPY.fx	11:30:00 AM	79.38	79.358			N/A
4/3/2019	AUDJPY.fx	1:30:00 PM	79.375	79.361			N/A
4/3/2019	AUDJPY.fx	3:30:00 PM	79.385	79.383			N/A
4/3/2019	AUDMXN	9:30:00 AM	13.6096	13.6182			N/A
4/3/2019	AUDMXN	11:30:00 AM	13.6235	13.6283			N/A
4/3/2019	AUDMXN	1:30:00 PM	13.6302	13.6368			N/A
4/3/2019	AUDMXN	3:30:00 PM	13.659	13.6588			N/A
4/3/2019	AUDNOK	9:30:00 AM	6.0929	6.0967			N/A
4/3/2019	AUDNOK	11:30:00 AM	6.0848	6.0897			N/A
4/3/2019	AUDNOK	1:30:00 PM	6.0901	6.0942			N/A
4/3/2019	AUDNOK	3:30:00 PM	6.0922	6.0971			N/A
4/3/2019	AUDNOK.fx	9:30:00 AM	6.0942	6.0951			N/A
4/3/2019	AUDNOK.fx	11:30:00 AM	6.0865	6.0881			N/A
4/3/2019	AUDNOK.fx	1:30:00 PM	6.0916	6.0925			N/A
4/3/2019	AUDNOK.fx	3:30:00 PM	6.0938	6.0954			N/A
4/3/2019	AUDNZD	9:30:00 AM	1.04809	1.0489			N/A
4/3/2019	AUDNZD	11:30:00 AM	1.04806	1.04893			N/A
4/3/2019	AUDNZD	1:30:00 PM	1.04704	1.04792			N/A
4/3/2019	AUDNZD	3:30:00 PM	1.04748	1.04842			N/A
4/3/2019	AUDNZD.fx	9:30:00 AM	1.04852	1.04847			N/A
4/3/2019	AUDNZD.fx	11:30:00 AM	1.04848	1.0485			N/A
4/3/2019	AUDNZD.fx	1:30:00 PM	1.04746	1.0475			N/A
4/3/2019	AUDNZD.fx	3:30:00 PM	1.0479	1.048			N/A
4/3/2019	AUDPLN	9:30:00 AM	2.7221	2.7247			N/A
4/3/2019	AUDPLN	11:30:00 AM	2.7172	2.7198			N/A
4/3/2019	AUDPLN	1:30:00 PM	2.7168	2.7197			N/A
4/3/2019	AUDPLN	3:30:00 PM	2.7179	2.7207			N/A
4/3/2019	AUDSEK	9:30:00 AM	6.6118	6.6123			N/A
4/3/2019	AUDSEK	11:30:00 AM	6.5964	6.5985			N/A
4/3/2019	AUDSEK	1:30:00 PM	6.5981	6.6004			N/A
4/3/2019	AUDSEK	3:30:00 PM	6.6067	6.6091			N/A

4/3/2019	AUDSEK.fx	9:30:00 AM	6.6068	6.617			N/A
4/3/2019	AUDSEK.fx	11:30:00 AM	6.5917	6.603			N/A
4/3/2019	AUDSEK.fx	1:30:00 PM	6.5935	6.605			N/A
4/3/2019	AUDSEK.fx	3:30:00 PM	6.602	6.6134			N/A
4/3/2019	AUDSGD	9:30:00 AM	0.9625	0.9628			N/A
4/3/2019	AUDSGD	11:30:00 AM	0.9625	0.9627			N/A
4/3/2019	AUDSGD	1:30:00 PM	0.963	0.9631			N/A
4/3/2019	AUDSGD	3:30:00 PM	0.9633	0.9632			N/A
4/3/2019	AUDSGD.fx	9:30:00 AM	0.96258	0.96268			N/A
4/3/2019	AUDSGD.fx	11:30:00 AM	0.96264	0.96258			N/A
4/3/2019	AUDSGD.fx	1:30:00 PM	0.96305	0.96303			N/A
4/3/2019	AUDSGD.fx	3:30:00 PM	0.96337	0.96347			N/A
4/3/2019	AUDUSD	9:30:00 AM	0.71122	0.7113			N/A
4/3/2019	AUDUSD	11:30:00 AM	0.71156	0.71155			N/A
4/3/2019	AUDUSD	1:30:00 PM	0.71215	0.71216			N/A
4/3/2019	AUDUSD	3:30:00 PM	0.71223	0.71234			N/A
4/3/2019	AUDUSD.fx	9:30:00 AM	0.71126	0.71125			N/A
4/3/2019	AUDUSD.fx	11:30:00 AM	0.71161	0.7115			N/A
4/3/2019	AUDUSD.fx	1:30:00 PM	0.7122	0.7121			N/A
4/3/2019	AUDUSD.fx	3:30:00 PM	0.71227	0.71227			N/A
4/3/2019	AUDZAR	9:30:00 AM	10.0501	10.0618			N/A
4/3/2019	AUDZAR	11:30:00 AM	10.0498	10.0636			N/A
4/3/2019	AUDZAR	1:30:00 PM	10.0675	10.082			N/A
4/3/2019	AUDZAR	3:30:00 PM	10.0837	10.0952			N/A
4/3/2019	AUS200.i	9:30:00 AM	6288.1	6291.9			N/A
4/3/2019	AUS200.i	11:30:00 AM	6288.1	6291.6			N/A
4/3/2019	AUS200.i	1:30:00 PM	6279.1	6282.1			N/A
4/3/2019	AUS200.i	3:30:00 PM	6280.1	6282.6			N/A
4/3/2019	BCHUSD	9:30:00 AM	259.33	270.65			N/A
4/3/2019	BCHUSD	11:30:00 AM	255.34	266.84			N/A
4/3/2019	BCHUSD	1:30:00 PM	260.42	271.82			N/A
4/3/2019	BCHUSD	3:30:00 PM	289.46	296.18			N/A
4/3/2019	CADCHF	9:30:00 AM	0.7498	0.75046			N/A
4/3/2019	CADCHF	11:30:00 AM	0.74895	0.74945			N/A

4/3/2019	CADCHF	1:30:00 PM	0.74868	0.74935			N/A
4/3/2019	CADCHF	3:30:00 PM	0.74823	0.74896			N/A
4/3/2019	CADCHF.fx	9:30:00 AM	0.75014	0.75012			N/A
4/3/2019	CADCHF.fx	11:30:00 AM	0.74928	0.74911			N/A
4/3/2019	CADCHF.fx	1:30:00 PM	0.74901	0.749			N/A
4/3/2019	CADCHF.fx	3:30:00 PM	0.74857	0.74861			N/A
4/3/2019	CADCZK	9:30:00 AM	17.21	17.223			N/A
4/3/2019	CADCZK	11:30:00 AM	17.171	17.183			N/A
4/3/2019	CADCZK	1:30:00 PM	17.148	17.163			N/A
4/3/2019	CADCZK	3:30:00 PM	17.164	17.182			N/A
4/3/2019	CADDKK	9:30:00 AM	4.996	4.999			N/A
4/3/2019	CADDKK	11:30:00 AM					N/A
4/3/2019	CADDKK	1:30:00 PM	4.987	4.99			N/A
4/3/2019	CADDKK	3:30:00 PM	4.987	4.99			N/A
4/3/2019	CADHKD	9:30:00 AM	5.8956	5.8995			N/A
4/3/2019	CADHKD	11:30:00 AM	5.896	5.8989			N/A
4/3/2019	CADHKD	1:30:00 PM	5.8969	5.9001			N/A
4/3/2019	CADHKD	3:30:00 PM	5.8939	5.8977			N/A
4/3/2019	CADHUF	9:30:00 AM	214.85	214.89			N/A
4/3/2019	CADHUF	11:30:00 AM	213.93	214.06			N/A
4/3/2019	CADHUF	1:30:00 PM	213.48	213.63			N/A
4/3/2019	CADHUF	3:30:00 PM	213.83	213.92			N/A
4/3/2019	CADJPY	9:30:00 AM	83.766	83.798			N/A
4/3/2019	CADJPY	11:30:00 AM	83.78	83.824			N/A
4/3/2019	CADJPY	1:30:00 PM	83.731	83.793			N/A
4/3/2019	CADJPY	3:30:00 PM	83.698	83.764			N/A
4/3/2019	CADJPY.fx	9:30:00 AM	83.796	83.763			N/A
4/3/2019	CADJPY.fx	11:30:00 AM	83.814	83.789			N/A
4/3/2019	CADJPY.fx	1:30:00 PM	83.764	83.759			N/A
4/3/2019	CADJPY.fx	3:30:00 PM	83.731	83.731			N/A
4/3/2019	CADMXN	9:30:00 AM	14.3784	14.3882			N/A
4/3/2019	CADMXN	11:30:00 AM	14.3883	14.3912			N/A
4/3/2019	CADMXN	1:30:00 PM	14.3847	14.3948			N/A
4/3/2019	CADMXN	3:30:00 PM	14.4083	14.4112			N/A

4/3/2019	CADNOK	9:30:00 AM	6.4355	6.4376			N/A
4/3/2019	CADNOK	11:30:00 AM	6.4243	6.429			N/A
4/3/2019	CADNOK	1:30:00 PM	6.4266	6.4302			N/A
4/3/2019	CADNOK	3:30:00 PM	6.4247	6.4275			N/A
4/3/2019	CADPLN	9:30:00 AM	2.8756	2.8776			N/A
4/3/2019	CADPLN	11:30:00 AM	2.8692	2.8712			N/A
4/3/2019	CADPLN	1:30:00 PM	2.8675	2.869			N/A
4/3/2019	CADPLN	3:30:00 PM	2.867	2.8689			N/A
4/3/2019	CADSEK	9:30:00 AM	6.9832	6.9844			N/A
4/3/2019	CADSEK	11:30:00 AM	6.9639	6.967			N/A
4/3/2019	CADSEK	1:30:00 PM	6.9622	6.965			N/A
4/3/2019	CADSEK	3:30:00 PM	6.9664	6.9703			N/A
4/3/2019	CADSGD	9:30:00 AM	1.0162	1.0165			N/A
4/3/2019	CADSGD	11:30:00 AM	1.0158	1.0161			N/A
4/3/2019	CADSGD	1:30:00 PM	1.0156	1.0159			N/A
4/3/2019	CADSGD	3:30:00 PM	1.0153	1.0156			N/A
4/3/2019	CADZAR	9:30:00 AM	10.6178	10.6323			N/A
4/3/2019	CADZAR	11:30:00 AM	10.6124	10.6281			N/A
4/3/2019	CADZAR	1:30:00 PM	10.6251	10.6416			N/A
4/3/2019	CADZAR	3:30:00 PM	10.6376	10.6505			N/A
4/3/2019	CHFCZK	9:30:00 AM	22.947	22.959			N/A
4/3/2019	CHFCZK	11:30:00 AM	22.921	22.935			N/A
4/3/2019	CHFCZK	1:30:00 PM	22.896	22.913			N/A
4/3/2019	CHFCZK	3:30:00 PM	22.932	22.948			N/A
4/3/2019	CHFDKK	9:30:00 AM	6.662	6.665			N/A
4/3/2019	CHFDKK	11:30:00 AM	6.662	6.665			N/A
4/3/2019	CHFDKK	1:30:00 PM					N/A
4/3/2019	CHFDKK	3:30:00 PM	6.662	6.665			N/A
4/3/2019	CHFDKK.fx	9:30:00 AM	6.6601	6.6661			N/A
4/3/2019	CHFDKK.fx	11:30:00 AM	6.6602	6.6661			N/A
4/3/2019	CHFDKK.fx	1:30:00 PM	6.6558	6.6622			N/A
4/3/2019	CHFDKK.fx	3:30:00 PM	6.6608	6.6668			N/A
4/3/2019	CHFHKD	9:30:00 AM	7.8609	7.8643			N/A
4/3/2019	CHFHKD	11:30:00 AM	7.8697	7.8736			N/A

4/3/2019	CHFHKD	1:30:00 PM	7.8736	7.8774			N/A
4/3/2019	CHFHKD	3:30:00 PM	7.8748	7.8787			N/A
4/3/2019	CHFHUF	9:30:00 AM	286.34	286.57			N/A
4/3/2019	CHFHUF	11:30:00 AM	285.47	285.83			N/A
4/3/2019	CHFHUF	1:30:00 PM	284.95	285.33			N/A
4/3/2019	CHFHUF	3:30:00 PM	285.6	285.84			N/A
4/3/2019	CHFJPY	9:30:00 AM	111.682	111.696			N/A
4/3/2019	CHFJPY	11:30:00 AM	111.833	111.889			N/A
4/3/2019	CHFJPY	1:30:00 PM	111.794	111.865			N/A
4/3/2019	CHFJPY	3:30:00 PM	111.82	111.88			N/A
4/3/2019	CHFJPY.fx	9:30:00 AM	111.714	111.663			N/A
4/3/2019	CHFJPY.fx	11:30:00 AM	111.865	111.854			N/A
4/3/2019	CHFJPY.fx	1:30:00 PM	111.827	111.831			N/A
4/3/2019	CHFJPY.fx	3:30:00 PM	111.853	111.847			N/A
4/3/2019	CHFMXN	9:30:00 AM	19.1699	19.1832			N/A
4/3/2019	CHFMXN	11:30:00 AM	19.2066	19.2089			N/A
4/3/2019	CHFMXN	1:30:00 PM	19.2065	19.2198			N/A
4/3/2019	CHFMXN	3:30:00 PM	19.249	19.2511			N/A
4/3/2019	CHFNOK	9:30:00 AM	8.5794	8.5863			N/A
4/3/2019	CHFNOK	11:30:00 AM	8.5758	8.582			N/A
4/3/2019	CHFNOK	1:30:00 PM	8.5793	8.5873			N/A
4/3/2019	CHFNOK	3:30:00 PM	8.5836	8.5913			N/A
4/3/2019	CHFNOK.fx	9:30:00 AM	8.58255	8.58301			N/A
4/3/2019	CHFNOK.fx	11:30:00 AM	8.57902	8.57862			N/A
4/3/2019	CHFNOK.fx	1:30:00 PM	8.58259	8.58389			N/A
4/3/2019	CHFNOK.fx	3:30:00 PM	8.58686	8.58801			N/A
4/3/2019	CHFPLN	9:30:00 AM	3.8341	3.8366			N/A
4/3/2019	CHFPLN	11:30:00 AM	3.83	3.8329			N/A
4/3/2019	CHFPLN	1:30:00 PM	3.8282	3.8314			N/A
4/3/2019	CHFPLN	3:30:00 PM	3.8302	3.8328			N/A
4/3/2019	CHFPLN.fx	9:30:00 AM	3.8315	3.83919			N/A
4/3/2019	CHFPLN.fx	11:30:00 AM	3.82742	3.83524			N/A
4/3/2019	CHFPLN.fx	1:30:00 PM	3.82571	3.83375			N/A
4/3/2019	CHFPLN.fx	3:30:00 PM	3.82777	3.83504			N/A

4/3/2019	CHFSEK	9:30:00 AM	9.3101	9.3114			N/A
4/3/2019	CHFSEK	11:30:00 AM	9.2959	9.3			N/A
4/3/2019	CHFSEK	1:30:00 PM	9.2953	9.2996			N/A
4/3/2019	CHFSEK	3:30:00 PM	9.3069	9.3112			N/A
4/3/2019	CHFSGD	9:30:00 AM	1.3556	1.3559			N/A
4/3/2019	CHFSGD	11:30:00 AM	1.3565	1.3569			N/A
4/3/2019	CHFSGD	1:30:00 PM	1.3567	1.3572			N/A
4/3/2019	CHFSGD	3:30:00 PM	1.3573	1.3577			N/A
4/3/2019	CHFSGD.fx	9:30:00 AM	1.35571	1.35574			N/A
4/3/2019	CHFSGD.fx	11:30:00 AM	1.35661	1.35668			N/A
4/3/2019	CHFSGD.fx	1:30:00 PM	1.35678	1.35698			N/A
4/3/2019	CHFSGD.fx	3:30:00 PM	1.35739	1.35754			N/A
4/3/2019	CHFZAR	9:30:00 AM	14.1591	14.1715			N/A
4/3/2019	CHFZAR	11:30:00 AM	14.1686	14.1829			N/A
4/3/2019	CHFZAR	1:30:00 PM	14.1894	14.2038			N/A
4/3/2019	CHFZAR	3:30:00 PM	14.2146	14.224			N/A
4/3/2019	CZKJPY	9:30:00 AM	4.867	4.868			N/A
4/3/2019	CZKJPY	11:30:00 AM	4.878	4.882			N/A
4/3/2019	CZKJPY	1:30:00 PM	4.882	4.885			N/A
4/3/2019	CZKJPY	3:30:00 PM					N/A
4/3/2019	DAX30.i	9:30:00 AM	11852.52	11852.02			N/A
4/3/2019	DAX30.i	11:30:00 AM	11915.77	11906.77			N/A
4/3/2019	DAX30.i	1:30:00 PM	11894.52	11888.27			N/A
4/3/2019	DAX30.i	3:30:00 PM	11912.52	11909.27			N/A
4/3/2019	DJ30.i	9:30:00 AM					N/A
4/3/2019	DJ30.i	11:30:00 AM					N/A
4/3/2019	DJ30.i	1:30:00 PM					N/A
4/3/2019	DJ30.i	3:30:00 PM					N/A
4/3/2019	DKKJPY	9:30:00 AM	16.77	16.79			N/A
4/3/2019	DKKJPY	11:30:00 AM					N/A
4/3/2019	DKKJPY	1:30:00 PM					N/A
4/3/2019	DKKJPY	3:30:00 PM					N/A
4/3/2019	EURAUD	9:30:00 AM	1.57707	1.5772			N/A
4/3/2019	EURAUD	11:30:00 AM	1.5781	1.57822			N/A

4/3/2019	EURAUD	1:30:00 PM	1.57858	1.57874			N/A
4/3/2019	EURAUD	3:30:00 PM	1.57749	1.57783			N/A
4/3/2019	EURAUD.fx	9:30:00 AM	1.57727	1.57699			N/A
4/3/2019	EURAUD.fx	11:30:00 AM	1.5783	1.57801			N/A
4/3/2019	EURAUD.fx	1:30:00 PM	1.57879	1.57853			N/A
4/3/2019	EURAUD.fx	3:30:00 PM	1.57769	1.57762			N/A
4/3/2019	EURCAD	9:30:00 AM	1.49312	1.49376			N/A
4/3/2019	EURCAD	11:30:00 AM	1.49503	1.49539			N/A
4/3/2019	EURCAD	1:30:00 PM	1.49614	1.49683			N/A
4/3/2019	EURCAD	3:30:00 PM	1.49592	1.49669			N/A
4/3/2019	EURCAD.fx	9:30:00 AM	1.49351	1.49335			N/A
4/3/2019	EURCAD.fx	11:30:00 AM	1.49545	1.49501			N/A
4/3/2019	EURCAD.fx	1:30:00 PM	1.49655	1.49641			N/A
4/3/2019	EURCAD.fx	3:30:00 PM	1.49635	1.49628			N/A
4/3/2019	EURCHF	9:30:00 AM	1.12028	1.12029			N/A
4/3/2019	EURCHF	11:30:00 AM	1.12018	1.12023			N/A
4/3/2019	EURCHF	1:30:00 PM	1.12085	1.12096			N/A
4/3/2019	EURCHF	3:30:00 PM	1.12009	1.12016			N/A
4/3/2019	EURCHF.fx	9:30:00 AM	1.12033	1.12025			N/A
4/3/2019	EURCHF.fx	11:30:00 AM	1.12025	1.12018			N/A
4/3/2019	EURCHF.fx	1:30:00 PM	1.12091	1.1209			N/A
4/3/2019	EURCHF.fx	3:30:00 PM	1.12015	1.1201			N/A
4/3/2019	EURCZK	9:30:00 AM	25.694	25.728			N/A
4/3/2019	EURCZK	11:30:00 AM	25.662	25.701			N/A
4/3/2019	EURCZK	1:30:00 PM	25.651	25.69			N/A
4/3/2019	EURCZK	3:30:00 PM	25.675	25.713			N/A
4/3/2019	EURDKK	9:30:00 AM	7.4632	7.4627			N/A
4/3/2019	EURDKK	11:30:00 AM	7.4632	7.4645			N/A
4/3/2019	EURDKK	1:30:00 PM	7.4632	7.4636			N/A
4/3/2019	EURDKK	3:30:00 PM	7.4634	7.4642			N/A
4/3/2019	EURGBP	9:30:00 AM	0.85381	0.85225	340	340	N/A
4/3/2019	EURGBP	11:30:00 AM	0.85445	0.85315			N/A
4/3/2019	EURGBP	1:30:00 PM	0.85341	0.85341			N/A
4/3/2019	EURGBP	3:30:00 PM	0.85306	0.85305			N/A

4/3/2019	EURGBP.fx	9:30:00 AM	0.85382	0.85222			N/A
4/3/2019	EURGBP.fx	11:30:00 AM	0.8544	0.85317			N/A
4/3/2019	EURGBP.fx	1:30:00 PM	0.85342	0.85336			N/A
4/3/2019	EURGBP.fx	3:30:00 PM	0.85308	0.85299			N/A
4/3/2019	EURHKD	9:30:00 AM	8.8095	8.8125			N/A
4/3/2019	EURHKD	11:30:00 AM	8.818	8.8223			N/A
4/3/2019	EURHKD	1:30:00 PM	8.8274	8.8327			N/A
4/3/2019	EURHKD	3:30:00 PM	8.8232	8.8277			N/A
4/3/2019	EURHKD.fx	9:30:00 AM	8.812	8.80993			N/A
4/3/2019	EURHKD.fx	11:30:00 AM	8.82089	8.81978			N/A
4/3/2019	EURHKD.fx	1:30:00 PM	8.82995	8.8302			N/A
4/3/2019	EURHKD.fx	3:30:00 PM	8.82571	8.82511			N/A
4/3/2019	EURHUF	9:30:00 AM	320.75	321.33			N/A
4/3/2019	EURHUF	11:30:00 AM	319.7	320.42			N/A
4/3/2019	EURHUF	1:30:00 PM	319.33	320.07			N/A
4/3/2019	EURHUF	3:30:00 PM	319.85	320.55			N/A
4/3/2019	EURHUF.fx	9:30:00 AM	321.015	321.093			N/A
4/3/2019	EURHUF.fx	11:30:00 AM	319.966	320.148			N/A
4/3/2019	EURHUF.fx	1:30:00 PM	319.611	319.798			N/A
4/3/2019	EURHUF.fx	3:30:00 PM	320.114	320.282			N/A
4/3/2019	EURJPY	9:30:00 AM	125.156	125.092			N/A
4/3/2019	EURJPY	11:30:00 AM	125.317	125.297			N/A
4/3/2019	EURJPY	1:30:00 PM	125.34	125.351			N/A
4/3/2019	EURJPY	3:30:00 PM	125.291	125.28			N/A
4/3/2019	EURJPY.fx	9:30:00 AM	125.158	125.089			N/A
4/3/2019	EURJPY.fx	11:30:00 AM	125.323	125.293			N/A
4/3/2019	EURJPY.fx	1:30:00 PM	125.342	125.348			N/A
4/3/2019	EURJPY.fx	3:30:00 PM	125.293	125.278			N/A
4/3/2019	EURMXN	9:30:00 AM	21.4807	21.4928			N/A
4/3/2019	EURMXN	11:30:00 AM	21.5173	21.5229			N/A
4/3/2019	EURMXN	1:30:00 PM	21.5295	21.5464			N/A
4/3/2019	EURMXN	3:30:00 PM	21.5635	21.5678			N/A
4/3/2019	EURMXN.f	9:30:00 AM	21.4896	21.4862			N/A
4/3/2019	EURMXN.f	11:30:00 AM	21.5257	21.5155			N/A

4/3/2019	EURMXN.f	1:30:00 PM	21.5376	21.5381			N/A
4/3/2019	EURMXN.f	3:30:00 PM	21.5716	21.5595			N/A
4/3/2019	EURNOK	9:30:00 AM	9.6102	9.6209			N/A
4/3/2019	EURNOK	11:30:00 AM	9.605	9.6155			N/A
4/3/2019	EURNOK	1:30:00 PM	9.6151	9.6271			N/A
4/3/2019	EURNOK	3:30:00 PM	9.6125	9.625			N/A
4/3/2019	EURNOK.fx	9:30:00 AM	9.61545	9.61518			N/A
4/3/2019	EURNOK.fx	11:30:00 AM	9.61063	9.60984			N/A
4/3/2019	EURNOK.fx	1:30:00 PM	9.62042	9.6217			N/A
4/3/2019	EURNOK.fx	3:30:00 PM	9.61792	9.61947			N/A
4/3/2019	EURNZD	9:30:00 AM	1.65411	1.65439			N/A
4/3/2019	EURNZD	11:30:00 AM	1.65514	1.65563			N/A
4/3/2019	EURNZD	1:30:00 PM	1.65398	1.65448			N/A
4/3/2019	EURNZD	3:30:00 PM	1.65361	1.65432			N/A
4/3/2019	EURNZD.fx	9:30:00 AM	1.65451	1.65398			N/A
4/3/2019	EURNZD.fx	11:30:00 AM	1.65555	1.65521			N/A
4/3/2019	EURNZD.fx	1:30:00 PM	1.65439	1.65405			N/A
4/3/2019	EURNZD.fx	3:30:00 PM	1.65402	1.65389			N/A
4/3/2019	EURPLN	9:30:00 AM	4.2952	4.2982			N/A
4/3/2019	EURPLN	11:30:00 AM	4.2903	4.2934			N/A
4/3/2019	EURPLN	1:30:00 PM	4.2912	4.2945			N/A
4/3/2019	EURPLN	3:30:00 PM	4.2903	4.2931			N/A
4/3/2019	EURPLN.fx	9:30:00 AM	4.29427	4.29892			N/A
4/3/2019	EURPLN.fx	11:30:00 AM	4.28937	4.29406			N/A
4/3/2019	EURPLN.fx	1:30:00 PM	4.29057	4.29517			N/A
4/3/2019	EURPLN.fx	3:30:00 PM	4.28958	4.29372			N/A
4/3/2019	EURRUB	9:30:00 AM					N/A
4/3/2019	EURRUB	11:30:00 AM	72.905	73.346			N/A
4/3/2019	EURRUB	1:30:00 PM	73.037	73.471			N/A
4/3/2019	EURRUB	3:30:00 PM	73.012	73.439			N/A
4/3/2019	EURSEK	9:30:00 AM	10.4314	10.4327			N/A
4/3/2019	EURSEK	11:30:00 AM	10.4139	10.4182			N/A
4/3/2019	EURSEK	1:30:00 PM	10.4196	10.4244			N/A
4/3/2019	EURSEK	3:30:00 PM	10.427	10.4309			N/A

4/3/2019	EURSEK.fx	9:30:00 AM	10.43275	10.43121			N/A
4/3/2019	EURSEK.fx	11:30:00 AM	10.41561	10.41646			N/A
4/3/2019	EURSEK.fx	1:30:00 PM	10.42131	10.4227			N/A
4/3/2019	EURSEK.fx	3:30:00 PM	10.42854	10.42936			N/A
4/3/2019	EURSGD	9:30:00 AM	1.5185	1.5191			N/A
4/3/2019	EURSGD	11:30:00 AM	1.5194	1.5201			N/A
4/3/2019	EURSGD	1:30:00 PM	1.5206	1.5214			N/A
4/3/2019	EURSGD	3:30:00 PM	1.5202	1.5209			N/A
4/3/2019	EURSGD.fx	9:30:00 AM	1.51883	1.51868			N/A
4/3/2019	EURSGD.fx	11:30:00 AM	1.51984	1.51968			N/A
4/3/2019	EURSGD.fx	1:30:00 PM	1.52085	1.52098			N/A
4/3/2019	EURSGD.fx	3:30:00 PM	1.52051	1.52052			N/A
4/3/2019	EURUSD	9:30:00 AM	1.12214	1.12192			N/A
4/3/2019	EURUSD	11:30:00 AM	1.12321	1.12318			N/A
4/3/2019	EURUSD	1:30:00 PM	1.12447	1.12459			N/A
4/3/2019	EURUSD	3:30:00 PM	1.12398	1.12398			N/A
4/3/2019	EURUSD.fx	9:30:00 AM	1.1223	1.12201			N/A
4/3/2019	EURUSD.fx	11:30:00 AM	1.12344	1.12328			N/A
4/3/2019	EURUSD.fx	1:30:00 PM	1.12468	1.12468			N/A
4/3/2019	EURUSD.fx	3:30:00 PM	1.12417	1.12408			N/A
4/3/2019	EURZAR	9:30:00 AM	15.869	15.884			N/A
4/3/2019	EURZAR	11:30:00 AM	15.8744	15.8928			N/A
4/3/2019	EURZAR	1:30:00 PM	15.9067	15.9271			N/A
4/3/2019	EURZAR	3:30:00 PM	15.9253	15.944			N/A
4/3/2019	EURZAR.fx	9:30:00 AM	15.86928	15.88493			N/A
4/3/2019	EURZAR.fx	11:30:00 AM	15.87419	15.89269			N/A
4/3/2019	EURZAR.fx	1:30:00 PM	15.90633	15.92743			N/A
4/3/2019	EURZAR.fx	3:30:00 PM	15.92471	15.9443			N/A
4/3/2019	GBPAUD	9:30:00 AM	1.85114	1.848			N/A
4/3/2019	GBPAUD	11:30:00 AM	1.85033	1.84776			N/A
4/3/2019	GBPAUD	1:30:00 PM	1.85022	1.85082			N/A
4/3/2019	GBPAUD	3:30:00 PM	1.84989	1.85044			N/A
4/3/2019	GBPAUD.fx	9:30:00 AM	1.85141	1.8476			N/A
4/3/2019	GBPAUD.fx	11:30:00 AM	1.85066	1.84753			N/A

4/3/2019	GBPAUD.fx	1:30:00 PM	1.85061	1.85044			N/A
4/3/2019	GBPAUD.fx	3:30:00 PM	1.85027	1.85006			N/A
4/3/2019	GBPCAD	9:30:00 AM	1.7522	1.74945			N/A
4/3/2019	GBPCAD	11:30:00 AM	1.75232	1.75004			N/A
4/3/2019	GBPCAD	1:30:00 PM	1.75324	1.75384			N/A
4/3/2019	GBPCAD	3:30:00 PM	1.75383	1.75443			N/A
4/3/2019	GBPCAD.fx	9:30:00 AM	1.75249	1.74904			N/A
4/3/2019	GBPCAD.fx	11:30:00 AM	1.75262	1.74972			N/A
4/3/2019	GBPCAD.fx	1:30:00 PM	1.7536	1.75348			N/A
4/3/2019	GBPCAD.fx	3:30:00 PM	1.75421	1.75405			N/A
4/3/2019	GBPCHF	9:30:00 AM	1.31433	1.31231			N/A
4/3/2019	GBPCHF	11:30:00 AM	1.3127	1.31114			N/A
4/3/2019	GBPCHF	1:30:00 PM	1.31333	1.31359			N/A
4/3/2019	GBPCHF	3:30:00 PM	1.31296	1.3133			N/A
4/3/2019	GBPCHF.fx	9:30:00 AM	1.31447	1.31211			N/A
4/3/2019	GBPCHF.fx	11:30:00 AM	1.31291	1.311			N/A
4/3/2019	GBPCHF.fx	1:30:00 PM	1.31352	1.31339			N/A
4/3/2019	GBPCHF.fx	3:30:00 PM	1.31315	1.3131			N/A
4/3/2019	GBPCZK	9:30:00 AM	30.156	30.119			N/A
4/3/2019	GBPCZK	11:30:00 AM	30.091	30.058			N/A
4/3/2019	GBPCZK	1:30:00 PM	30.072	30.089			N/A
4/3/2019	GBPCZK	3:30:00 PM	30.11	30.128			N/A
4/3/2019	GBPDKK	9:30:00 AM	8.754	8.749			N/A
4/3/2019	GBPDKK	11:30:00 AM	8.744	8.742			N/A
4/3/2019	GBPDKK	1:30:00 PM	8.742	8.752			N/A
4/3/2019	GBPDKK	3:30:00 PM	8.746	8.756			N/A
4/3/2019	GBPDKK.fx	9:30:00 AM	8.7518	8.7492			N/A
4/3/2019	GBPDKK.fx	11:30:00 AM	8.7424	8.7433			N/A
4/3/2019	GBPDKK.fx	1:30:00 PM	8.7406	8.7525			N/A
4/3/2019	GBPDKK.fx	3:30:00 PM	8.7442	8.7562			N/A
4/3/2019	GBPHKD	9:30:00 AM	10.3323	10.3161			N/A
4/3/2019	GBPHKD	11:30:00 AM	10.3308	10.3184			N/A
4/3/2019	GBPHKD	1:30:00 PM	10.3404	10.3443			N/A
4/3/2019	GBPHKD	3:30:00 PM	10.3386	10.3432			N/A

4/3/2019	GBPHUF	9:30:00 AM	376.2	375.95			N/A
4/3/2019	GBPHUF	11:30:00 AM	374.78	374.58			N/A
4/3/2019	GBPHUF	1:30:00 PM	374.23	374.67			N/A
4/3/2019	GBPHUF	3:30:00 PM	374.97	375.24			N/A
4/3/2019	GBPJPY	9:30:00 AM	146.825	146.528			N/A
4/3/2019	GBPJPY	11:30:00 AM	146.837	146.674			N/A
4/3/2019	GBPJPY	1:30:00 PM	146.874	146.89			N/A
4/3/2019	GBPJPY	3:30:00 PM	146.868	146.88			N/A
4/3/2019	GBPJPY.fx	9:30:00 AM	146.839	146.51			N/A
4/3/2019	GBPJPY.fx	11:30:00 AM	146.857	146.661			N/A
4/3/2019	GBPJPY.fx	1:30:00 PM	146.892	146.872			N/A
4/3/2019	GBPJPY.fx	3:30:00 PM	146.887	146.861			N/A
4/3/2019	GBPMXN	9:30:00 AM	25.1979	25.1611			N/A
4/3/2019	GBPMXN	11:30:00 AM	25.2169	25.173			N/A
4/3/2019	GBPMXN	1:30:00 PM	25.2235	25.235			N/A
4/3/2019	GBPMXN	3:30:00 PM	25.2767	25.2699			N/A
4/3/2019	GBPNOK	9:30:00 AM	11.278	11.2676			N/A
4/3/2019	GBPNOK	11:30:00 AM	11.26	11.2506			N/A
4/3/2019	GBPNOK	1:30:00 PM	11.2688	11.2785			N/A
4/3/2019	GBPNOK	3:30:00 PM	11.2712	11.2811			N/A
4/3/2019	GBPNOK.fx	9:30:00 AM	11.28123	11.26317			N/A
4/3/2019	GBPNOK.fx	11:30:00 AM	11.26472	11.24827			N/A
4/3/2019	GBPNOK.fx	1:30:00 PM	11.27358	11.27348			N/A
4/3/2019	GBPNOK.fx	3:30:00 PM	11.27581	11.27621			N/A
4/3/2019	GBPNZD	9:30:00 AM	1.94091	1.93749			N/A
4/3/2019	GBPNZD	11:30:00 AM	1.94003	1.93735			N/A
4/3/2019	GBPNZD	1:30:00 PM	1.93812	1.93873			N/A
4/3/2019	GBPNZD	3:30:00 PM	1.93868	1.93918			N/A
4/3/2019	GBPNZD.fx	9:30:00 AM	1.94108	1.93713			N/A
4/3/2019	GBPNZD.fx	11:30:00 AM	1.94032	1.93721			N/A
4/3/2019	GBPNZD.fx	1:30:00 PM	1.93851	1.93834			N/A
4/3/2019	GBPNZD.fx	3:30:00 PM	1.93902	1.9388			N/A
4/3/2019	GBPPLN	9:30:00 AM	5.0411	5.0331			N/A
4/3/2019	GBPPLN	11:30:00 AM	5.0298	5.0234			N/A

4/3/2019	GBPPLN	1:30:00 PM	5.0295	5.0308			N/A
4/3/2019	GBPPLN	3:30:00 PM	5.0307	5.0314			N/A
4/3/2019	GBPPLN.fx	9:30:00 AM	5.03852	5.03547			N/A
4/3/2019	GBPPLN.fx	11:30:00 AM	5.02715	5.02635			N/A
4/3/2019	GBPPLN.fx	1:30:00 PM	5.02734	5.03309			N/A
4/3/2019	GBPPLN.fx	3:30:00 PM	5.02826	5.03354			N/A
4/3/2019	GBPSEK	9:30:00 AM	12.2384	12.2195			N/A
4/3/2019	GBPSEK	11:30:00 AM	12.2053	12.1926			N/A
4/3/2019	GBPSEK	1:30:00 PM	12.2083	12.2161			N/A
4/3/2019	GBPSEK	3:30:00 PM	12.2231	12.2292			N/A
4/3/2019	GBPSEK.fx	9:30:00 AM	12.23282	12.22387			N/A
4/3/2019	GBPSEK.fx	11:30:00 AM	12.20074	12.20121			N/A
4/3/2019	GBPSEK.fx	1:30:00 PM	12.20466	12.22006			N/A
4/3/2019	GBPSEK.fx	3:30:00 PM	12.21921	12.23263			N/A
4/3/2019	GBPSGD	9:30:00 AM	1.7821	1.779			N/A
4/3/2019	GBPSGD	11:30:00 AM	1.7809	1.779			N/A
4/3/2019	GBPSGD	1:30:00 PM	1.782	1.7825			N/A
4/3/2019	GBPSGD	3:30:00 PM	1.7823	1.7828			N/A
4/3/2019	GBPSGD.fx	9:30:00 AM	1.78003	1.78086			N/A
4/3/2019	GBPSGD.fx	11:30:00 AM	1.77898	1.78098			N/A
4/3/2019	GBPSGD.fx	1:30:00 PM	1.7801	1.78426			N/A
4/3/2019	GBPSGD.fx	3:30:00 PM	1.78042	1.78458			N/A
4/3/2019	GBPUSD	9:30:00 AM	1.31701	1.31416	10	100	N/A
4/3/2019	GBPUSD	11:30:00 AM	1.3167	1.31468			N/A
4/3/2019	GBPUSD	1:30:00 PM	1.31796	1.31782			N/A
4/3/2019	GBPUSD	3:30:00 PM	1.31791	1.31772			N/A
4/3/2019	GBPUSD.fx	9:30:00 AM	1.31698	1.31412			N/A
4/3/2019	GBPUSD.fx	11:30:00 AM	1.31668	1.31473			N/A
4/3/2019	GBPUSD.fx	1:30:00 PM	1.318	1.31777			N/A
4/3/2019	GBPUSD.fx	3:30:00 PM	1.31794	1.31767			N/A
4/3/2019	GBPZAR	9:30:00 AM	18.6166	18.6075			N/A
4/3/2019	GBPZAR	11:30:00 AM	18.6032	18.6042			N/A
4/3/2019	GBPZAR	1:30:00 PM	18.6376	18.6653			N/A
4/3/2019	GBPZAR	3:30:00 PM	18.6664	18.6926			N/A

4/3/2019	GBPZAR.fx	9:30:00 AM	18.6219	18.6003			N/A
4/3/2019	GBPZAR.fx	11:30:00 AM	18.6082	18.5993			N/A
4/3/2019	GBPZAR.fx	1:30:00 PM	18.6448	18.6584			N/A
4/3/2019	GBPZAR.fx	3:30:00 PM	18.6727	18.6856			N/A
4/3/2019	GOLD	9:30:00 AM	1292.46	1292.73			N/A
4/3/2019	GOLD	11:30:00 AM	1291.54	1291.57			N/A
4/3/2019	GOLD	1:30:00 PM	1292.84	1293.13			N/A
4/3/2019	GOLD	3:30:00 PM	1292.97	1292.93			N/A
4/3/2019	HKDJPY	9:30:00 AM	14.2	14.21			N/A
4/3/2019	HKDJPY	11:30:00 AM	14.21	14.22			N/A
4/3/2019	HKDJPY	1:30:00 PM	14.2	14.21			N/A
4/3/2019	HKDJPY	3:30:00 PM	14.2	14.21			N/A
4/3/2019	HKDJPY.fx	9:30:00 AM	14.199	14.202			N/A
4/3/2019	HKDJPY.fx	11:30:00 AM	14.202	14.209			N/A
4/3/2019	HKDJPY.fx	1:30:00 PM	14.192	14.199			N/A
4/3/2019	HKDJPY.fx	3:30:00 PM	14.193	14.198			N/A
4/3/2019	HUFJPY	9:30:00 AM	0.39	0.3903			N/A
4/3/2019	HUFJPY	11:30:00 AM	0.3919	0.3922			N/A
4/3/2019	HUFJPY	1:30:00 PM	0.3923	0.3926			N/A
4/3/2019	HUFJPY	3:30:00 PM	0.3917	0.392			N/A
4/3/2019	JP225.i	9:30:00 AM	21725.15	21735.15			N/A
4/3/2019	JP225.i	11:30:00 AM	21780.15	21795.15			N/A
4/3/2019	JP225.i	1:30:00 PM	21778.7	21795.15			N/A
4/3/2019	JP225.i	3:30:00 PM	21815.15	21825.15			N/A
4/3/2019	MXNJPY	9:30:00 AM	5.83	5.83			N/A
4/3/2019	MXNJPY	11:30:00 AM	5.82	5.83			N/A
4/3/2019	MXNJPY	1:30:00 PM	5.82	5.83			N/A
4/3/2019	MXNJPY	3:30:00 PM	5.81	5.82			N/A
4/3/2019	NASDAQ.i	9:30:00 AM					N/A
4/3/2019	NASDAQ.i	11:30:00 AM					N/A
4/3/2019	NASDAQ.i	1:30:00 PM					N/A
4/3/2019	NASDAQ.i	3:30:00 PM					N/A
4/3/2019	NOKJPY	9:30:00 AM	13	13.03			N/A
4/3/2019	NOKJPY	11:30:00 AM	13.03	13.06			N/A

4/3/2019	NOKJPY	1:30:00 PM	13.02	13.05			N/A
4/3/2019	NOKJPY	3:30:00 PM	13.01	13.04			N/A
4/3/2019	NOKJPY.fx	9:30:00 AM	13.011	13.014			N/A
4/3/2019	NOKJPY.fx	11:30:00 AM	13.037	13.041			N/A
4/3/2019	NOKJPY.fx	1:30:00 PM	13.025	13.033			N/A
4/3/2019	NOKJPY.fx	3:30:00 PM	13.022	13.028			N/A
4/3/2019	NZDCAD	9:30:00 AM	0.90258	0.90305			N/A
4/3/2019	NZDCAD	11:30:00 AM	0.9029	0.90355			N/A
4/3/2019	NZDCAD	1:30:00 PM	0.90434	0.90492			N/A
4/3/2019	NZDCAD	3:30:00 PM	0.90433	0.90504			N/A
4/3/2019	NZDCAD.fx	9:30:00 AM	0.90292	0.90274			N/A
4/3/2019	NZDCAD.fx	11:30:00 AM	0.90324	0.90323			N/A
4/3/2019	NZDCAD.fx	1:30:00 PM	0.90467	0.90459			N/A
4/3/2019	NZDCAD.fx	3:30:00 PM	0.90466	0.90471			N/A
4/3/2019	NZDCHF	9:30:00 AM	0.67698	0.67752			N/A
4/3/2019	NZDCHF	11:30:00 AM	0.67642	0.677			N/A
4/3/2019	NZDCHF	1:30:00 PM	0.67729	0.67791			N/A
4/3/2019	NZDCHF	3:30:00 PM	0.6769	0.67759			N/A
4/3/2019	NZDCHF.fx	9:30:00 AM	0.67731	0.67718			N/A
4/3/2019	NZDCHF.fx	11:30:00 AM	0.67675	0.67664			N/A
4/3/2019	NZDCHF.fx	1:30:00 PM	0.67764	0.67755			N/A
4/3/2019	NZDCHF.fx	3:30:00 PM	0.67724	0.67724			N/A
4/3/2019	NZDCZK	9:30:00 AM	15.536	15.544			N/A
4/3/2019	NZDCZK	11:30:00 AM	15.508	15.518			N/A
4/3/2019	NZDCZK	1:30:00 PM	15.513	15.522			N/A
4/3/2019	NZDCZK	3:30:00 PM	15.528	15.539			N/A
4/3/2019	NZDDKK	9:30:00 AM	4.511	4.512			N/A
4/3/2019	NZDDKK	11:30:00 AM					N/A
4/3/2019	NZDDKK	1:30:00 PM	4.51	4.514			N/A
4/3/2019	NZDDKK	3:30:00 PM	4.51	4.514			N/A
4/3/2019	NZDHKD	9:30:00 AM	5.3228	5.3251			N/A
4/3/2019	NZDHKD	11:30:00 AM	5.3249	5.3264			N/A
4/3/2019	NZDHKD	1:30:00 PM	5.334	5.3359			N/A
4/3/2019	NZDHKD	3:30:00 PM	5.3317	5.3345			N/A

4/3/2019	NZDHUF	9:30:00 AM	193.86	194.02			N/A
4/3/2019	NZDHUF	11:30:00 AM	193.13	193.39			N/A
4/3/2019	NZDHUF	1:30:00 PM	193.01	193.29			N/A
4/3/2019	NZDHUF	3:30:00 PM	193.35	193.55			N/A
4/3/2019	NZDJPY	9:30:00 AM	75.611	75.66			N/A
4/3/2019	NZDJPY	11:30:00 AM	75.672	75.719			N/A
4/3/2019	NZDJPY	1:30:00 PM	75.746	75.802			N/A
4/3/2019	NZDJPY	3:30:00 PM	75.72	75.786			N/A
4/3/2019	NZDJPY.fx	9:30:00 AM	75.642	75.629			N/A
4/3/2019	NZDJPY.fx	11:30:00 AM	75.704	75.687			N/A
4/3/2019	NZDJPY.fx	1:30:00 PM	75.779	75.77			N/A
4/3/2019	NZDJPY.fx	3:30:00 PM	75.751	75.753			N/A
4/3/2019	NZDMXN	9:30:00 AM	12.9805	12.9858			N/A
4/3/2019	NZDMXN	11:30:00 AM	12.9946	12.9948			N/A
4/3/2019	NZDMXN	1:30:00 PM	13.0131	13.0159			N/A
4/3/2019	NZDMXN	3:30:00 PM	13.035	13.0316			N/A
4/3/2019	NZDNOK	9:30:00 AM	5.8105	5.8102			N/A
4/3/2019	NZDNOK	11:30:00 AM	5.8016	5.8055			N/A
4/3/2019	NZDNOK	1:30:00 PM	5.8129	5.8155			N/A
4/3/2019	NZDNOK	3:30:00 PM	5.811	5.8136			N/A
4/3/2019	NZDPLN	9:30:00 AM	2.5961	2.5976			N/A
4/3/2019	NZDPLN	11:30:00 AM	2.5914	2.5926			N/A
4/3/2019	NZDPLN	1:30:00 PM	2.5938	2.5947			N/A
4/3/2019	NZDPLN	3:30:00 PM	2.5936	2.5949			N/A
4/3/2019	NZDSEK	9:30:00 AM	6.3015	6.3053			N/A
4/3/2019	NZDSEK	11:30:00 AM	6.2869	6.2937			N/A
4/3/2019	NZDSEK	1:30:00 PM	6.2955	6.3011			N/A
4/3/2019	NZDSEK	3:30:00 PM	6.2993	6.3061			N/A
4/3/2019	NZDSGD	9:30:00 AM	0.918	0.9184			N/A
4/3/2019	NZDSGD	11:30:00 AM	0.9179	0.9183			N/A
4/3/2019	NZDSGD	1:30:00 PM	0.9192	0.9197			N/A
4/3/2019	NZDSGD	3:30:00 PM	0.9192	0.9197			N/A
4/3/2019	NZDSGD.fx	9:30:00 AM	0.9179	0.91835			N/A
4/3/2019	NZDSGD.fx	11:30:00 AM	0.91783	0.91827			N/A

4/3/2019	NZDSGD.fx	1:30:00 PM	0.91919	0.91961			N/A
4/3/2019	NZDSGD.fx	3:30:00 PM	0.91907	0.91962			N/A
4/3/2019	NZDUSD	9:30:00 AM	0.67828	0.67834			N/A
4/3/2019	NZDUSD	11:30:00 AM	0.67856	0.67856			N/A
4/3/2019	NZDUSD	1:30:00 PM	0.67984	0.67982			N/A
4/3/2019	NZDUSD	3:30:00 PM	0.67957	0.67968			N/A
4/3/2019	NZDUSD.fx	9:30:00 AM	0.67836	0.67836			N/A
4/3/2019	NZDUSD.fx	11:30:00 AM	0.67862	0.67858			N/A
4/3/2019	NZDUSD.fx	1:30:00 PM	0.67991	0.67985			N/A
4/3/2019	NZDUSD.fx	3:30:00 PM	0.67964	0.67971			N/A
4/3/2019	NZDZAR	9:30:00 AM	9.584	9.5974			N/A
4/3/2019	NZDZAR	11:30:00 AM	9.583	9.5981			N/A
4/3/2019	NZDZAR	1:30:00 PM	9.6092	9.6255			N/A
4/3/2019	NZDZAR	3:30:00 PM	9.6202	9.6346			N/A
4/3/2019	SEKJPY	9:30:00 AM	12	12			N/A
4/3/2019	SEKJPY	11:30:00 AM	12.03	12.04			N/A
4/3/2019	SEKJPY	1:30:00 PM	12.03	12.04			N/A
4/3/2019	SEKJPY	3:30:00 PM	12.02	12.02			N/A
4/3/2019	SEKJPY.fx	9:30:00 AM	11.989	12			N/A
4/3/2019	SEKJPY.fx	11:30:00 AM	12.021	12.038			N/A
4/3/2019	SEKJPY.fx	1:30:00 PM	12.017	12.036			N/A
4/3/2019	SEKJPY.fx	3:30:00 PM	12.005	12.022			N/A
4/3/2019	SGDJPY	9:30:00 AM	82.36	82.38			N/A
4/3/2019	SGDJPY	11:30:00 AM	82.43	82.45			N/A
4/3/2019	SGDJPY	1:30:00 PM	82.38	82.41			N/A
4/3/2019	SGDJPY	3:30:00 PM	82.4	82.39			N/A
4/3/2019	SILVER	9:30:00 AM	14.98	15.37			N/A
4/3/2019	SILVER	11:30:00 AM	14.99	15.36			N/A
4/3/2019	SILVER	1:30:00 PM	14.97	15.36			N/A
4/3/2019	SILVER	3:30:00 PM	14.91	15.29			N/A
4/3/2019	SPX500.i	9:30:00 AM	2878	2878.55			N/A
4/3/2019	SPX500.i	11:30:00 AM	2879	2879.55			N/A
4/3/2019	SPX500.i	1:30:00 PM	2877.5	2878.3			N/A
4/3/2019	SPX500.i	3:30:00 PM	2881.25	2881.3			N/A

4/3/2019	UK100.i	9:30:00 AM	7410.96	7407.46			N/A
4/3/2019	UK100.i	11:30:00 AM	7402.71	7401.88			N/A
4/3/2019	UK100.i	1:30:00 PM	7401.21	7400.71			N/A
4/3/2019	UK100.i	3:30:00 PM	7407.71	7407.21			N/A
4/3/2019	USDCAD	9:30:00 AM	1.33098	1.33087			N/A
4/3/2019	USDCAD	11:30:00 AM	1.33118	1.33091			N/A
4/3/2019	USDCAD	1:30:00 PM	1.33062	1.33062			N/A
4/3/2019	USDCAD	3:30:00 PM	1.33107	1.33115	300	300	N/A
4/3/2019	USDCAD.fx	9:30:00 AM	1.33101	1.33086			N/A
4/3/2019	USDCAD.fx	11:30:00 AM	1.3312	1.3309			N/A
4/3/2019	USDCAD.fx	1:30:00 PM	1.33064	1.33058			N/A
4/3/2019	USDCAD.fx	3:30:00 PM	1.3311	1.33111			N/A
4/3/2019	USDCHF	9:30:00 AM	0.99834	0.99825			N/A
4/3/2019	USDCHF	11:30:00 AM	0.99716	0.99724			N/A
4/3/2019	USDCHF	1:30:00 PM	0.99654	0.9967			N/A
4/3/2019	USDCHF	3:30:00 PM	0.99638	0.99649			N/A
4/3/2019	USDCHF.fx	9:30:00 AM	0.99839	0.9982			N/A
4/3/2019	USDCHF.fx	11:30:00 AM	0.9972	0.99719			N/A
4/3/2019	USDCHF.fx	1:30:00 PM	0.99659	0.99663			N/A
4/3/2019	USDCHF.fx	3:30:00 PM	0.99643	0.99641			N/A
4/3/2019	USDCZK	9:30:00 AM	22.921	22.938			N/A
4/3/2019	USDCZK	11:30:00 AM	22.869	22.89			N/A
4/3/2019	USDCZK	1:30:00 PM	22.832	22.855			N/A
4/3/2019	USDCZK	3:30:00 PM	22.865	22.886			N/A
4/3/2019	USDCZK.fx	9:30:00 AM	22.9304	22.9305			N/A
4/3/2019	USDCZK.fx	11:30:00 AM	22.8778	22.8809			N/A
4/3/2019	USDCZK.fx	1:30:00 PM	22.8407	22.8473			N/A
4/3/2019	USDCZK.fx	3:30:00 PM	22.873	22.8771			N/A
4/3/2019	USDDKK	9:30:00 AM	6.6516	6.654			N/A
4/3/2019	USDDKK	11:30:00 AM	6.6437	6.6471			N/A
4/3/2019	USDDKK	1:30:00 PM	6.6355	6.6395			N/A
4/3/2019	USDDKK	3:30:00 PM	6.6389	6.6425			N/A
4/3/2019	USDDKK.fx	9:30:00 AM	6.65203	6.65204			N/A
4/3/2019	USDDKK.fx	11:30:00 AM	6.64418	6.64473			N/A

4/3/2019	USDDKK.fx	1:30:00 PM	6.63597	6.63745			N/A
4/3/2019	USDDKK.fx	3:30:00 PM	6.63958	6.64058			N/A
4/3/2019	USDHKD	9:30:00 AM	7.8495	7.8497			N/A
4/3/2019	USDHKD	11:30:00 AM	7.8495	7.8499			N/A
4/3/2019	USDHKD	1:30:00 PM	7.8488	7.8492			N/A
4/3/2019	USDHKD	3:30:00 PM	7.8487	7.8489			N/A
4/3/2019	USDHKD.fx	9:30:00 AM	7.8495	7.85005			N/A
4/3/2019	USDHKD.fx	11:30:00 AM	7.84947	7.84993			N/A
4/3/2019	USDHKD.fx	1:30:00 PM					N/A
4/3/2019	USDHKD.fx	3:30:00 PM	7.84865	7.84918			N/A
4/3/2019	USDHUF	9:30:00 AM	285.93	286.31			N/A
4/3/2019	USDHUF	11:30:00 AM	284.7	285.15			N/A
4/3/2019	USDHUF	1:30:00 PM	284.03	284.5			N/A
4/3/2019	USDHUF	3:30:00 PM	284.62	285.06			N/A
4/3/2019	USDHUF.fx	9:30:00 AM	286.12	286.108			N/A
4/3/2019	USDHUF.fx	11:30:00 AM	284.887	284.942			N/A
4/3/2019	USDHUF.fx	1:30:00 PM	284.223	284.296			N/A
4/3/2019	USDHUF.fx	3:30:00 PM	284.814	284.87			N/A
4/3/2019	USDINR	9:30:00 AM	63.45	73.44			N/A
4/3/2019	USDINR	11:30:00 AM	63.49	73.47			N/A
4/3/2019	USDINR	1:30:00 PM					N/A
4/3/2019	USDINR	3:30:00 PM					N/A
4/3/2019	USDJPY	9:30:00 AM	111.512	111.489	100	100	N/A
4/3/2019	USDJPY	11:30:00 AM	111.543	111.544			N/A
4/3/2019	USDJPY	1:30:00 PM	111.446	111.458			N/A
4/3/2019	USDJPY	3:30:00 PM	111.454	111.452			N/A
4/3/2019	USDJPY.fx	9:30:00 AM	111.518	111.482			N/A
4/3/2019	USDJPY.fx	11:30:00 AM	111.551	111.537			N/A
4/3/2019	USDJPY.fx	1:30:00 PM	111.452	111.451			N/A
4/3/2019	USDJPY.fx	3:30:00 PM	111.459	111.446			N/A
4/3/2019	USDMXN	9:30:00 AM	19.145	19.151			N/A
4/3/2019	USDMXN	11:30:00 AM	19.159	19.154			N/A
4/3/2019	USDMXN	1:30:00 PM	19.147	19.153			N/A
4/3/2019	USDMXN	3:30:00 PM	19.187	19.183			N/A

4/3/2019	USDMXN.f	9:30:00 AM	19.1482	19.1483			N/A
4/3/2019	USDMXN.f	11:30:00 AM	19.1629	19.1496			N/A
4/3/2019	USDMXN.f	1:30:00 PM	19.1501	19.1499			N/A
4/3/2019	USDMXN.f	3:30:00 PM	19.1903	19.1785			N/A
4/3/2019	USDNOK	9:30:00 AM	8.5656	8.5725			N/A
4/3/2019	USDNOK	11:30:00 AM	8.552	8.5588			N/A
4/3/2019	USDNOK	1:30:00 PM	8.5501	8.5589			N/A
4/3/2019	USDNOK	3:30:00 PM	8.5531	8.561			N/A
4/3/2019	USDNOK.fx	9:30:00 AM	8.56926	8.56834			N/A
4/3/2019	USDNOK.fx	11:30:00 AM	8.55584	8.5544			N/A
4/3/2019	USDNOK.fx	1:30:00 PM	8.55402	8.55449			N/A
4/3/2019	USDNOK.fx	3:30:00 PM	8.55687	8.55664			N/A
4/3/2019	USDPLN	9:30:00 AM	3.8288	3.8293			N/A
4/3/2019	USDPLN	11:30:00 AM	3.82	3.8213			N/A
4/3/2019	USDPLN	1:30:00 PM	3.8162	3.8177			N/A
4/3/2019	USDPLN	3:30:00 PM	3.8173	3.8185			N/A
4/3/2019	USDPLN.fx	9:30:00 AM	3.82777	3.83011			N/A
4/3/2019	USDPLN.fx	11:30:00 AM	3.81918	3.8221			N/A
4/3/2019	USDPLN.fx	1:30:00 PM	3.81543	3.81855			N/A
4/3/2019	USDPLN.fx	3:30:00 PM	3.81637	3.81935			N/A
4/3/2019	USDRUB	9:30:00 AM					N/A
4/3/2019	USDRUB	11:30:00 AM	65.001	65.393			N/A
4/3/2019	USDRUB	1:30:00 PM	65.054	65.436			N/A
4/3/2019	USDRUB	3:30:00 PM	65.053	65.435			N/A
4/3/2019	USDSEK	9:30:00 AM	9.2959	9.2951			N/A
4/3/2019	USDSEK	11:30:00 AM	9.2704	9.2731			N/A
4/3/2019	USDSEK	1:30:00 PM	9.2642	9.2684			N/A
4/3/2019	USDSEK	3:30:00 PM	9.2749	9.2782			N/A
4/3/2019	USDSEK.fx	9:30:00 AM	9.29811	9.29418			N/A
4/3/2019	USDSEK.fx	11:30:00 AM	9.27304	9.27179			N/A
4/3/2019	USDSEK.fx	1:30:00 PM	9.26666	9.26681			N/A
4/3/2019	USDSEK.fx	3:30:00 PM	9.27745	9.2767			N/A
4/3/2019	USDSGD	9:30:00 AM	1.3533	1.3536			N/A
4/3/2019	USDSGD	11:30:00 AM	1.3527	1.3531			N/A

4/3/2019	USDSGD	1:30:00 PM	1.3521	1.3525			N/A
4/3/2019	USDSGD	3:30:00 PM	1.3524	1.3527			N/A
4/3/2019	USDSGD.fx	9:30:00 AM	1.35322	1.35359			N/A
4/3/2019	USDSGD.fx	11:30:00 AM	1.35263	1.35309			N/A
4/3/2019	USDSGD.fx	1:30:00 PM	1.35204	1.35254			N/A
4/3/2019	USDSGD.fx	3:30:00 PM	1.35234	1.35285			N/A
4/3/2019	USDZAR	9:30:00 AM	14.139	14.1552			N/A
4/3/2019	USDZAR	11:30:00 AM	14.1311	14.1482			N/A
4/3/2019	USDZAR	1:30:00 PM	14.1431	14.1602			N/A
4/3/2019	USDZAR	3:30:00 PM	14.1667	14.1837			N/A
4/3/2019	USDZAR.fx	9:30:00 AM	14.14497	14.14929			N/A
4/3/2019	USDZAR.fx	11:30:00 AM	14.13707	14.14272			N/A
4/3/2019	USDZAR.fx	1:30:00 PM	14.14957	14.15462			N/A
4/3/2019	USDZAR.fx	3:30:00 PM	14.1722	14.17752			N/A
4/3/2019	XAUUSD	9:30:00 AM	1292.43	1292.69			N/A
4/3/2019	XAUUSD	11:30:00 AM	1291.52	1291.54			N/A
4/3/2019	XAUUSD	1:30:00 PM	1292.84	1293.12			N/A
4/3/2019	XAUUSD	3:30:00 PM	1292.96	1292.91			N/A
4/3/2019	ZARJPY	9:30:00 AM	7.86	7.88			N/A
4/3/2019	ZARJPY	11:30:00 AM	7.86	7.89			N/A
4/3/2019	ZARJPY	1:30:00 PM	7.86	7.88			N/A
4/3/2019	ZARJPY	3:30:00 PM	7.85	7.86			N/A
4/3/2019	ZARJPY.fx	9:30:00 AM	7.879	7.882			N/A
4/3/2019	ZARJPY.fx	11:30:00 AM	7.886	7.89			N/A
4/3/2019	ZARJPY.fx	1:30:00 PM	7.872	7.877			N/A
4/3/2019	ZARJPY.fx	3:30:00 PM	7.861	7.864			N/A
4/4/2019	#AA	9:30:00 AM					N/A
4/4/2019	#AA	11:30:00 AM					N/A
4/4/2019	#AA	1:30:00 PM					N/A
4/4/2019	#AA	3:30:00 PM					N/A
4/4/2019	#AABA	9:30:00 AM					N/A
4/4/2019	#AABA	11:30:00 AM					N/A
4/4/2019	#AABA	1:30:00 PM					N/A
4/4/2019	#AABA	3:30:00 PM					N/A

4/4/2019	#AAL	9:30:00 AM					N/A
4/4/2019	#AAL	11:30:00 AM					N/A
4/4/2019	#AAL	1:30:00 PM					N/A
4/4/2019	#AAL	3:30:00 PM					N/A
4/4/2019	#AAPL	9:30:00 AM					N/A
4/4/2019	#AAPL	11:30:00 AM					N/A
4/4/2019	#AAPL	1:30:00 PM					N/A
4/4/2019	#AAPL	3:30:00 PM					N/A
4/4/2019	#ADBE	9:30:00 AM					N/A
4/4/2019	#ADBE	11:30:00 AM					N/A
4/4/2019	#ADBE	1:30:00 PM					N/A
4/4/2019	#ADBE	3:30:00 PM					N/A
4/4/2019	#AIG	9:30:00 AM					N/A
4/4/2019	#AIG	11:30:00 AM					N/A
4/4/2019	#AIG	1:30:00 PM					N/A
4/4/2019	#AIG	3:30:00 PM					N/A
4/4/2019	#AMD	9:30:00 AM					N/A
4/4/2019	#AMD	11:30:00 AM					N/A
4/4/2019	#AMD	1:30:00 PM					N/A
4/4/2019	#AMD	3:30:00 PM					N/A
4/4/2019	#AMZN	9:30:00 AM					N/A
4/4/2019	#AMZN	11:30:00 AM					N/A
4/4/2019	#AMZN	1:30:00 PM					N/A
4/4/2019	#AMZN	3:30:00 PM					N/A
4/4/2019	#AXP	9:30:00 AM					N/A
4/4/2019	#AXP	11:30:00 AM					N/A
4/4/2019	#AXP	1:30:00 PM					N/A
4/4/2019	#AXP	3:30:00 PM					N/A
4/4/2019	#BA	9:30:00 AM					N/A
4/4/2019	#BA	11:30:00 AM					N/A
4/4/2019	#BA	1:30:00 PM					N/A
4/4/2019	#BA	3:30:00 PM					N/A
4/4/2019	#BABA	9:30:00 AM					N/A
4/4/2019	#BABA	11:30:00 AM					N/A

4/4/2019	#BABA	1:30:00 PM					N/A
4/4/2019	#BABA	3:30:00 PM					N/A
4/4/2019	#BAC	9:30:00 AM					N/A
4/4/2019	#BAC	11:30:00 AM					N/A
4/4/2019	#BAC	1:30:00 PM					N/A
4/4/2019	#BAC	3:30:00 PM					N/A
4/4/2019	#BARC	9:30:00 AM					N/A
4/4/2019	#BARC	11:30:00 AM					N/A
4/4/2019	#BARC	1:30:00 PM					N/A
4/4/2019	#BARC	3:30:00 PM					N/A
4/4/2019	#BHP	9:30:00 AM					N/A
4/4/2019	#BHP	11:30:00 AM					N/A
4/4/2019	#BHP	1:30:00 PM					N/A
4/4/2019	#BHP	3:30:00 PM					N/A
4/4/2019	#BIDU	9:30:00 AM					N/A
4/4/2019	#BIDU	11:30:00 AM					N/A
4/4/2019	#BIDU	1:30:00 PM					N/A
4/4/2019	#BIDU	3:30:00 PM					N/A
4/4/2019	#Bitcoin	9:30:00 AM	5054.46	5119.36			N/A
4/4/2019	#Bitcoin	11:30:00 AM	5043.96	5118.56			N/A
4/4/2019	#Bitcoin	1:30:00 PM	4996.21	5060.01			N/A
4/4/2019	#Bitcoin	3:30:00 PM	4999.26	5071.96			N/A
4/4/2019	#BK	9:30:00 AM					N/A
4/4/2019	#BK	11:30:00 AM					N/A
4/4/2019	#BK	1:30:00 PM					N/A
4/4/2019	#BK	3:30:00 PM					N/A
4/4/2019	#BLT	9:30:00 AM					N/A
4/4/2019	#BLT	11:30:00 AM					N/A
4/4/2019	#BLT	1:30:00 PM					N/A
4/4/2019	#BLT	3:30:00 PM					N/A
4/4/2019	#BP	9:30:00 AM					N/A
4/4/2019	#BP	11:30:00 AM					N/A
4/4/2019	#BP	1:30:00 PM					N/A
4/4/2019	#BP	3:30:00 PM					N/A

4/4/2019	#BTA	9:30:00 AM					N/A
4/4/2019	#BTA	11:30:00 AM					N/A
4/4/2019	#BTA	1:30:00 PM					N/A
4/4/2019	#BTA	3:30:00 PM					N/A
4/4/2019	#C	9:30:00 AM					N/A
4/4/2019	#C	11:30:00 AM					N/A
4/4/2019	#C	1:30:00 PM					N/A
4/4/2019	#C	3:30:00 PM					N/A
4/4/2019	#CAT	9:30:00 AM					N/A
4/4/2019	#CAT	11:30:00 AM					N/A
4/4/2019	#CAT	1:30:00 PM					N/A
4/4/2019	#CAT	3:30:00 PM					N/A
4/4/2019	#CHL	9:30:00 AM					N/A
4/4/2019	#CHL	11:30:00 AM					N/A
4/4/2019	#CHL	1:30:00 PM					N/A
4/4/2019	#CHL	3:30:00 PM					N/A
4/4/2019	#CL.f	9:30:00 AM	62.437	62.484			N/A
4/4/2019	#CL.f	11:30:00 AM	62.197	62.221			N/A
4/4/2019	#CL.f	1:30:00 PM	62.488	62.517			N/A
4/4/2019	#CL.f	3:30:00 PM	62.67	62.686			N/A
4/4/2019	#CMCSA	9:30:00 AM					N/A
4/4/2019	#CMCSA	11:30:00 AM					N/A
4/4/2019	#CMCSA	1:30:00 PM					N/A
4/4/2019	#CMCSA	3:30:00 PM					N/A
4/4/2019	#CSCO	9:30:00 AM					N/A
4/4/2019	#CSCO	11:30:00 AM					N/A
4/4/2019	#CSCO	1:30:00 PM					N/A
4/4/2019	#CSCO	3:30:00 PM					N/A
4/4/2019	#CVX	9:30:00 AM					N/A
4/4/2019	#CVX	11:30:00 AM					N/A
4/4/2019	#CVX	1:30:00 PM					N/A
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4/4/2019	AUDCHF	9:30:00 AM	0.70979	0.71031			N/A
4/4/2019	AUDCHF	11:30:00 AM	0.70957	0.71024			N/A
4/4/2019	AUDCHF	1:30:00 PM	0.70972	0.71033			N/A
4/4/2019	AUDCHF	3:30:00 PM	0.70983	0.71027			N/A
4/4/2019	AUDCHF.fx	9:30:00 AM	0.71013	0.70997			N/A
4/4/2019	AUDCHF.fx	11:30:00 AM	0.70991	0.70989			N/A
4/4/2019	AUDCHF.fx	1:30:00 PM	0.71006	0.70999			N/A
4/4/2019	AUDCHF.fx	3:30:00 PM	0.71016	0.70992			N/A
4/4/2019	AUDCZK	9:30:00 AM	16.27	16.285			N/A
4/4/2019	AUDCZK	11:30:00 AM	16.243	16.26			N/A
4/4/2019	AUDCZK	1:30:00 PM	16.248	16.262			N/A
4/4/2019	AUDCZK	3:30:00 PM	16.252	16.265			N/A
4/4/2019	AUDDKK	9:30:00 AM	4.7234	4.7275			N/A
4/4/2019	AUDDKK	11:30:00 AM	4.7217	4.7264			N/A
4/4/2019	AUDDKK	1:30:00 PM	4.7253	4.7295			N/A
4/4/2019	AUDDKK	3:30:00 PM	4.7259	4.7291			N/A
4/4/2019	AUDHKD	9:30:00 AM	5.5822	5.5849			N/A
4/4/2019	AUDHKD	11:30:00 AM	5.5784	5.5822			N/A
4/4/2019	AUDHKD	1:30:00 PM	5.5798	5.5833			N/A
4/4/2019	AUDHKD	3:30:00 PM	5.5749	5.5764			N/A
4/4/2019	AUDHUF	9:30:00 AM	202.51	202.44			N/A
4/4/2019	AUDHUF	11:30:00 AM					N/A
4/4/2019	AUDHUF	1:30:00 PM	202.33	202.54			N/A
4/4/2019	AUDHUF	3:30:00 PM	202.35	202.48			N/A
4/4/2019	AUDJPY	9:30:00 AM	79.263	79.316			N/A
4/4/2019	AUDJPY	11:30:00 AM	79.182	79.257			N/A
4/4/2019	AUDJPY	1:30:00 PM	79.22	79.276			N/A
4/4/2019	AUDJPY	3:30:00 PM	79.186	79.219			N/A
4/4/2019	AUDJPY.fx	9:30:00 AM	79.296	79.282			N/A
4/4/2019	AUDJPY.fx	11:30:00 AM	79.215	79.221			N/A
4/4/2019	AUDJPY.fx	1:30:00 PM	79.253	79.24			N/A
4/4/2019	AUDJPY.fx	3:30:00 PM	79.219	79.185			N/A

4/4/2019	AUDMXN	9:30:00 AM	13.69	13.6967			N/A
4/4/2019	AUDMXN	11:30:00 AM	13.6899	13.6987			N/A
4/4/2019	AUDMXN	1:30:00 PM	13.6838	13.6933			N/A
4/4/2019	AUDMXN	3:30:00 PM	13.6532	13.6585			N/A
4/4/2019	AUDNOK	9:30:00 AM	6.1012	6.1045			N/A
4/4/2019	AUDNOK	11:30:00 AM	6.1014	6.1066			N/A
4/4/2019	AUDNOK	1:30:00 PM	6.1058	6.1107			N/A
4/4/2019	AUDNOK	3:30:00 PM	6.0996	6.1024			N/A
4/4/2019	AUDNOK.fx	9:30:00 AM	6.1026	6.1029			N/A
4/4/2019	AUDNOK.fx	11:30:00 AM	6.1029	6.105			N/A
4/4/2019	AUDNOK.fx	1:30:00 PM	6.1073	6.1091			N/A
4/4/2019	AUDNOK.fx	3:30:00 PM	6.101	6.1009			N/A
4/4/2019	AUDNZD	9:30:00 AM	1.04804	1.04887			N/A
4/4/2019	AUDNZD	11:30:00 AM	1.04793	1.04888			N/A
4/4/2019	AUDNZD	1:30:00 PM	1.04897	1.04986			N/A
4/4/2019	AUDNZD	3:30:00 PM	1.05123	1.05177			N/A
4/4/2019	AUDNZD.fx	9:30:00 AM	1.04846	1.04844			N/A
4/4/2019	AUDNZD.fx	11:30:00 AM	1.04836	1.04844			N/A
4/4/2019	AUDNZD.fx	1:30:00 PM	1.04939	1.04943			N/A
4/4/2019	AUDNZD.fx	3:30:00 PM	1.05162	1.05133			N/A
4/4/2019	AUDPLN	9:30:00 AM	2.7161	2.7188			N/A
4/4/2019	AUDPLN	11:30:00 AM	2.7168	2.7192			N/A
4/4/2019	AUDPLN	1:30:00 PM	2.7168	2.7196			N/A
4/4/2019	AUDPLN	3:30:00 PM	2.7158	2.7182			N/A
4/4/2019	AUDSEK	9:30:00 AM	6.5966	6.5998			N/A
4/4/2019	AUDSEK	11:30:00 AM	6.5893	6.5923			N/A
4/4/2019	AUDSEK	1:30:00 PM	6.5961	6.599			N/A
4/4/2019	AUDSEK	3:30:00 PM	6.594	6.5939			N/A
4/4/2019	AUDSEK.fx	9:30:00 AM	6.5918	6.6043			N/A
4/4/2019	AUDSEK.fx	11:30:00 AM	6.5848	6.5968			N/A
4/4/2019	AUDSEK.fx	1:30:00 PM	6.5915	6.6035			N/A
4/4/2019	AUDSEK.fx	3:30:00 PM	6.5891	6.5981			N/A
4/4/2019	AUDSGD	9:30:00 AM	0.9627	0.9629			N/A
4/4/2019	AUDSGD	11:30:00 AM	0.9626	0.9628			N/A

4/4/2019	AUDSGD	1:30:00 PM	0.9627	0.9629			N/A
4/4/2019	AUDSGD	3:30:00 PM	0.9621	0.962			N/A
4/4/2019	AUDSGD.fx	9:30:00 AM	0.96281	0.96284			N/A
4/4/2019	AUDSGD.fx	11:30:00 AM	0.96271	0.96287			N/A
4/4/2019	AUDSGD.fx	1:30:00 PM	0.96279	0.96281			N/A
4/4/2019	AUDSGD.fx	3:30:00 PM	0.96227	0.96186			N/A
4/4/2019	AUDUSD	9:30:00 AM	0.71163	0.71159			N/A
4/4/2019	AUDUSD	11:30:00 AM	0.71114	0.71131			N/A
4/4/2019	AUDUSD	1:30:00 PM	0.71113	0.71132			N/A
4/4/2019	AUDUSD	3:30:00 PM	0.71067	0.71035			N/A
4/4/2019	AUDUSD.fx	9:30:00 AM	0.71168	0.71154			N/A
4/4/2019	AUDUSD.fx	11:30:00 AM	0.71118	0.71126			N/A
4/4/2019	AUDUSD.fx	1:30:00 PM	0.71134	0.71126			N/A
4/4/2019	AUDUSD.fx	3:30:00 PM	0.71078	0.71029			N/A
4/4/2019	AUDZAR	9:30:00 AM	10.0882	10.0946			N/A
4/4/2019	AUDZAR	11:30:00 AM	10.0795	10.0953			N/A
4/4/2019	AUDZAR	1:30:00 PM	10.0683	10.0794			N/A
4/4/2019	AUDZAR	3:30:00 PM	10.0434	10.057			N/A
4/4/2019	AUS200.i	9:30:00 AM	6232.95	6234.35			N/A
4/4/2019	AUS200.i	11:30:00 AM	6227.95	6231.85			N/A
4/4/2019	AUS200.i	1:30:00 PM	6225.95	6228.45			N/A
4/4/2019	AUS200.i	3:30:00 PM	6225.95	6229.45			N/A
4/4/2019	BCHUSD	9:30:00 AM	315.09	325.69			N/A
4/4/2019	BCHUSD	11:30:00 AM	311.19	321.61			N/A
4/4/2019	BCHUSD	1:30:00 PM	301.29	311.19			N/A
4/4/2019	BCHUSD	3:30:00 PM	304.58	315.25			N/A
4/4/2019	CADCHF	9:30:00 AM	0.74684	0.74744			N/A
4/4/2019	CADCHF	11:30:00 AM	0.74708	0.74776			N/A
4/4/2019	CADCHF	1:30:00 PM	0.74708	0.74777			N/A
4/4/2019	CADCHF	3:30:00 PM	0.74754	0.74807			N/A
4/4/2019	CADCHF.fx	9:30:00 AM	0.74718	0.74711			N/A
4/4/2019	CADCHF.fx	11:30:00 AM	0.74742	0.74741			N/A
4/4/2019	CADCHF.fx	1:30:00 PM	0.74742	0.74742			N/A
4/4/2019	CADCHF.fx	3:30:00 PM	0.74786	0.74775			N/A

4/4/2019	CADCZK	9:30:00 AM	17.123	17.138			N/A
4/4/2019	CADCZK	11:30:00 AM	17.104	17.121			N/A
4/4/2019	CADCZK	1:30:00 PM	17.106	17.121			N/A
4/4/2019	CADCZK	3:30:00 PM	17.122	17.132			N/A
4/4/2019	CADDDKK	9:30:00 AM	4.971	4.975			N/A
4/4/2019	CADDDKK	11:30:00 AM					N/A
4/4/2019	CADDDKK	1:30:00 PM					N/A
4/4/2019	CADDDKK	3:30:00 PM	4.978	4.98			N/A
4/4/2019	CADHKD	9:30:00 AM	5.8741	5.8773			N/A
4/4/2019	CADHKD	11:30:00 AM	5.8745	5.8784			N/A
4/4/2019	CADHKD	1:30:00 PM	5.8746	5.8782			N/A
4/4/2019	CADHKD	3:30:00 PM	5.8718	5.8748			N/A
4/4/2019	CADHUF	9:30:00 AM	213.17	212.98			N/A
4/4/2019	CADHUF	11:30:00 AM	213.08	213.26			N/A
4/4/2019	CADHUF	1:30:00 PM	213.03	213.19			N/A
4/4/2019	CADHUF	3:30:00 PM	213.22	213.22			N/A
4/4/2019	CADJPY	9:30:00 AM	83.401	83.462			N/A
4/4/2019	CADJPY	11:30:00 AM	83.369	83.443			N/A
4/4/2019	CADJPY	1:30:00 PM	83.39	83.451			N/A
4/4/2019	CADJPY	3:30:00 PM	83.387	83.449			N/A
4/4/2019	CADJPY.fx	9:30:00 AM	83.434	83.429			N/A
4/4/2019	CADJPY.fx	11:30:00 AM	83.403	83.409			N/A
4/4/2019	CADJPY.fx	1:30:00 PM	83.422	83.416			N/A
4/4/2019	CADJPY.fx	3:30:00 PM	83.42	83.416			N/A
4/4/2019	CADMXN	9:30:00 AM	14.4071	14.415			N/A
4/4/2019	CADMXN	11:30:00 AM	14.4143	14.4259			N/A
4/4/2019	CADMXN	1:30:00 PM	14.4057	14.4172			N/A
4/4/2019	CADMXN	3:30:00 PM	14.3799	14.3881			N/A
4/4/2019	CADNOK	9:30:00 AM	6.4189	6.4219			N/A
4/4/2019	CADNOK	11:30:00 AM	6.4234	6.4283			N/A
4/4/2019	CADNOK	1:30:00 PM	6.427	6.4316			N/A
4/4/2019	CADNOK	3:30:00 PM	6.4228	6.4231			N/A
4/4/2019	CADPLN	9:30:00 AM	2.8585	2.8603			N/A
4/4/2019	CADPLN	11:30:00 AM	2.8608	2.8627			N/A

4/4/2019	CADPLN	1:30:00 PM	2.86	2.8618			N/A
4/4/2019	CADPLN	3:30:00 PM	2.8607	2.8617			N/A
4/4/2019	CADSEK	9:30:00 AM	6.9402	6.9435			N/A
4/4/2019	CADSEK	11:30:00 AM	6.936	6.9399			N/A
4/4/2019	CADSEK	1:30:00 PM	6.9426	6.9459			N/A
4/4/2019	CADSEK	3:30:00 PM	6.9408	6.9445			N/A
4/4/2019	CADSGD	9:30:00 AM	1.0123	1.0127			N/A
4/4/2019	CADSGD	11:30:00 AM	1.0128	1.0131			N/A
4/4/2019	CADSGD	1:30:00 PM	1.0128	1.0131			N/A
4/4/2019	CADSGD	3:30:00 PM	1.0127	1.0129			N/A
4/4/2019	CADZAR	9:30:00 AM	10.6158	10.6226			N/A
4/4/2019	CADZAR	11:30:00 AM	10.6133	10.6312			N/A
4/4/2019	CADZAR	1:30:00 PM	10.599	10.6129			N/A
4/4/2019	CADZAR	3:30:00 PM	10.5807	10.5912			N/A
4/4/2019	CHFCZK	9:30:00 AM	22.922	22.935			N/A
4/4/2019	CHFCZK	11:30:00 AM	22.891	22.907			N/A
4/4/2019	CHFCZK	1:30:00 PM	22.893	22.906			N/A
4/4/2019	CHFCZK	3:30:00 PM	22.899	22.909			N/A
4/4/2019	CHFDKK	9:30:00 AM	6.654	6.657			N/A
4/4/2019	CHFDKK	11:30:00 AM	6.653	6.656			N/A
4/4/2019	CHFDKK	1:30:00 PM	6.657	6.66			N/A
4/4/2019	CHFDKK	3:30:00 PM	6.657	6.659			N/A
4/4/2019	CHFDKK.fx	9:30:00 AM	6.6523	6.6582			N/A
4/4/2019	CHFDKK.fx	11:30:00 AM	6.6515	6.6572			N/A
4/4/2019	CHFDKK.fx	1:30:00 PM	6.6554	6.6615			N/A
4/4/2019	CHFDKK.fx	3:30:00 PM	6.6554	6.6601			N/A
4/4/2019	CHFHKD	9:30:00 AM	7.8634	7.8673			N/A
4/4/2019	CHFHKD	11:30:00 AM	7.8615	7.8649			N/A
4/4/2019	CHFHKD	1:30:00 PM	7.8615	7.8649			N/A
4/4/2019	CHFHKD	3:30:00 PM	7.8536	7.8548			N/A
4/4/2019	CHFHUF	9:30:00 AM	285.3	285.17			N/A
4/4/2019	CHFHUF	11:30:00 AM	285.05	285.42			N/A
4/4/2019	CHFHUF	1:30:00 PM	284.99	285.36			N/A
4/4/2019	CHFHUF	3:30:00 PM	285.04	285.24			N/A

4/4/2019	CHFJPY	9:30:00 AM	111.635	111.703			N/A
4/4/2019	CHFJPY	11:30:00 AM	111.562	111.623			N/A
4/4/2019	CHFJPY	1:30:00 PM	111.577	111.645			N/A
4/4/2019	CHFJPY	3:30:00 PM	111.527	111.573			N/A
4/4/2019	CHFJPY.fx	9:30:00 AM	111.668	111.67			N/A
4/4/2019	CHFJPY.fx	11:30:00 AM	111.594	111.589			N/A
4/4/2019	CHFJPY.fx	1:30:00 PM	111.61	111.611			N/A
4/4/2019	CHFJPY.fx	3:30:00 PM	111.557	111.541			N/A
4/4/2019	CHFMXN	9:30:00 AM	19.2871	19.2936			N/A
4/4/2019	CHFMXN	11:30:00 AM	19.2889	19.3017			N/A
4/4/2019	CHFMXN	1:30:00 PM	19.2765	19.2911			N/A
4/4/2019	CHFMXN	3:30:00 PM	19.233	19.2414			N/A
4/4/2019	CHFNOK	9:30:00 AM	8.5929	8.5966			N/A
4/4/2019	CHFNOK	11:30:00 AM	8.5946	8.6022			N/A
4/4/2019	CHFNOK	1:30:00 PM	8.5996	8.6065			N/A
4/4/2019	CHFNOK	3:30:00 PM	8.5891	8.5957			N/A
4/4/2019	CHFNOK.fx	9:30:00 AM	8.59627	8.59335			N/A
4/4/2019	CHFNOK.fx	11:30:00 AM	8.59788	8.59887			N/A
4/4/2019	CHFNOK.fx	1:30:00 PM	8.60298	8.60304			N/A
4/4/2019	CHFNOK.fx	3:30:00 PM	8.59217	8.59234			N/A
4/4/2019	CHFPLN	9:30:00 AM	3.8263	3.8278			N/A
4/4/2019	CHFPLN	11:30:00 AM	3.8277	3.8299			N/A
4/4/2019	CHFPLN	1:30:00 PM	3.8268	3.8299			N/A
4/4/2019	CHFPLN	3:30:00 PM	3.8254	3.8278			N/A
4/4/2019	CHFPLN.fx	9:30:00 AM	3.82376	3.83018			N/A
4/4/2019	CHFPLN.fx	11:30:00 AM	3.82541	3.83231			N/A
4/4/2019	CHFPLN.fx	1:30:00 PM	3.82434	3.83223			N/A
4/4/2019	CHFPLN.fx	3:30:00 PM	3.82289	3.83028			N/A
4/4/2019	CHFSEK	9:30:00 AM	9.2904	9.2936			N/A
4/4/2019	CHFSEK	11:30:00 AM	9.2811	9.2854			N/A
4/4/2019	CHFSEK	1:30:00 PM	9.29	9.2943			N/A
4/4/2019	CHFSEK	3:30:00 PM	9.2837	9.2866			N/A
4/4/2019	CHFSGD	9:30:00 AM	1.3558	1.3562			N/A
4/4/2019	CHFSGD	11:30:00 AM	1.3561	1.3564			N/A

4/4/2019	CHFSGD	1:30:00 PM	1.3559	1.3563			N/A
4/4/2019	CHFSGD	3:30:00 PM	1.3549	1.355			N/A
4/4/2019	CHFSGD.fx	9:30:00 AM	1.35605	1.35602			N/A
4/4/2019	CHFSGD.fx	11:30:00 AM	1.35627	1.35627			N/A
4/4/2019	CHFSGD.fx	1:30:00 PM	1.356	1.35614			N/A
4/4/2019	CHFSGD.fx	3:30:00 PM	1.35504	1.3548			N/A
4/4/2019	CHFZAR	9:30:00 AM	14.2163	14.2146			N/A
4/4/2019	CHFZAR	11:30:00 AM	14.2064	14.2202			N/A
4/4/2019	CHFZAR	1:30:00 PM	14.1855	14.1974			N/A
4/4/2019	CHFZAR	3:30:00 PM	14.1537	14.1622			N/A
4/4/2019	CZKJPY	9:30:00 AM					N/A
4/4/2019	CZKJPY	11:30:00 AM					N/A
4/4/2019	CZKJPY	1:30:00 PM	4.874	4.877			N/A
4/4/2019	CZKJPY	3:30:00 PM	4.871	4.873			N/A
4/4/2019	DAX30.i	9:30:00 AM	11926.35	11927.1			N/A
4/4/2019	DAX30.i	11:30:00 AM	11944.85	11944.35			N/A
4/4/2019	DAX30.i	1:30:00 PM	11970.85	11968.6			N/A
4/4/2019	DAX30.i	3:30:00 PM	11983.85	11983.35			N/A
4/4/2019	DJ30.i	9:30:00 AM					N/A
4/4/2019	DJ30.i	11:30:00 AM					N/A
4/4/2019	DJ30.i	1:30:00 PM					N/A
4/4/2019	DJ30.i	3:30:00 PM					N/A
4/4/2019	DKKJPY	9:30:00 AM					N/A
4/4/2019	DKKJPY	11:30:00 AM					N/A
4/4/2019	DKKJPY	1:30:00 PM					N/A
4/4/2019	DKKJPY	3:30:00 PM	16.75	16.77			N/A
4/4/2019	EURAUD	9:30:00 AM	1.57891	1.5791			N/A
4/4/2019	EURAUD	11:30:00 AM	1.57934	1.57972			N/A
4/4/2019	EURAUD	1:30:00 PM	1.57814	1.5784			N/A
4/4/2019	EURAUD	3:30:00 PM	1.57834	1.57822			N/A
4/4/2019	EURAUD.fx	9:30:00 AM	1.57911	1.57887			N/A
4/4/2019	EURAUD.fx	11:30:00 AM	1.57955	1.57951			N/A
4/4/2019	EURAUD.fx	1:30:00 PM	1.57835	1.57819			N/A
4/4/2019	EURAUD.fx	3:30:00 PM	1.57854	1.57804			N/A

4/4/2019	EURCAD	9:30:00 AM	1.50078	1.5015			N/A
4/4/2019	EURCAD	11:30:00 AM	1.50038	1.50121			N/A
4/4/2019	EURCAD	1:30:00 PM	1.49948	1.50025			N/A
4/4/2019	EURCAD	3:30:00 PM	1.49888	1.49919			N/A
4/4/2019	EURCAD.fx	9:30:00 AM	1.50118	1.50108			N/A
4/4/2019	EURCAD.fx	11:30:00 AM	1.5008	1.50079			N/A
4/4/2019	EURCAD.fx	1:30:00 PM	1.49989	1.49983			N/A
4/4/2019	EURCAD.fx	3:30:00 PM	1.49926	1.49879			N/A
4/4/2019	EURCHF	9:30:00 AM	1.12154	1.12163			N/A
4/4/2019	EURCHF	11:30:00 AM	1.12171	1.12171			N/A
4/4/2019	EURCHF	1:30:00 PM	1.12098	1.12109			N/A
4/4/2019	EURCHF	3:30:00 PM	1.12111	1.12099			N/A
4/4/2019	EURCHF.fx	9:30:00 AM	1.12158	1.12158			N/A
4/4/2019	EURCHF.fx	11:30:00 AM	1.12176	1.12168			N/A
4/4/2019	EURCHF.fx	1:30:00 PM	1.12104	1.12102			N/A
4/4/2019	EURCHF.fx	3:30:00 PM	1.12117	1.12093			N/A
4/4/2019	EURCZK	9:30:00 AM	25.694	25.731			N/A
4/4/2019	EURCZK	11:30:00 AM	25.662	25.702			N/A
4/4/2019	EURCZK	1:30:00 PM	25.65	25.685			N/A
4/4/2019	EURCZK	3:30:00 PM	25.654	25.692			N/A
4/4/2019	EURDKK	9:30:00 AM	7.4636	7.4649			N/A
4/4/2019	EURDKK	11:30:00 AM	7.4637	7.4641			N/A
4/4/2019	EURDKK	1:30:00 PM	7.4626	7.4638			N/A
4/4/2019	EURDKK	3:30:00 PM	7.4632	7.4644			N/A
4/4/2019	EURGBP	9:30:00 AM	0.85293	0.85284			N/A
4/4/2019	EURGBP	11:30:00 AM	0.85309	0.85308			N/A
4/4/2019	EURGBP	1:30:00 PM	0.85385	0.8538			N/A
4/4/2019	EURGBP	3:30:00 PM	0.85434	0.85414			N/A
4/4/2019	EURGBP.fx	9:30:00 AM	0.85294	0.8528			N/A
4/4/2019	EURGBP.fx	11:30:00 AM	0.85311	0.85303			N/A
4/4/2019	EURGBP.fx	1:30:00 PM	0.85388	0.85378			N/A
4/4/2019	EURGBP.fx	3:30:00 PM	0.85434	0.85409			N/A
4/4/2019	EURHKD	9:30:00 AM	8.8206	8.8252			N/A
4/4/2019	EURHKD	11:30:00 AM	8.8193	8.824			N/A

4/4/2019	EURHKD	1:30:00 PM	8.8134	8.8189			N/A
4/4/2019	EURHKD	3:30:00 PM	8.8056	8.8058			N/A
4/4/2019	EURHKD.fx	9:30:00 AM	8.82316	8.82266			N/A
4/4/2019	EURHKD.fx	11:30:00 AM	8.82179	8.82141			N/A
4/4/2019	EURHKD.fx	1:30:00 PM	8.81592	8.8163			N/A
4/4/2019	EURHKD.fx	3:30:00 PM	8.80822	8.80327			N/A
4/4/2019	EURHUF	9:30:00 AM	319.93	320.08			N/A
4/4/2019	EURHUF	11:30:00 AM	319.67	320.28			N/A
4/4/2019	EURHUF	1:30:00 PM	319.36	320.01			N/A
4/4/2019	EURHUF	3:30:00 PM	319.45	320.16			N/A
4/4/2019	EURHUF.fx	9:30:00 AM	320.201	319.815			N/A
4/4/2019	EURHUF.fx	11:30:00 AM	319.931	320.088			N/A
4/4/2019	EURHUF.fx	1:30:00 PM					N/A
4/4/2019	EURHUF.fx	3:30:00 PM	319.706	319.862			N/A
4/4/2019	EURJPY	9:30:00 AM	125.242	125.242			N/A
4/4/2019	EURJPY	11:30:00 AM	125.174	125.177			N/A
4/4/2019	EURJPY	1:30:00 PM	125.119	125.123			N/A
4/4/2019	EURJPY	3:30:00 PM	125.065	125.03			N/A
4/4/2019	EURJPY.fx	9:30:00 AM	125.244	125.239			N/A
4/4/2019	EURJPY.fx	11:30:00 AM	125.176	125.174			N/A
4/4/2019	EURJPY.fx	1:30:00 PM	125.12	125.118			N/A
4/4/2019	EURJPY.fx	3:30:00 PM	125.067	125.027			N/A
4/4/2019	EURMXN	9:30:00 AM	21.6319	21.6421			N/A
4/4/2019	EURMXN	11:30:00 AM	21.6383	21.6543			N/A
4/4/2019	EURMXN	1:30:00 PM	21.6107	21.6284			N/A
4/4/2019	EURMXN	3:30:00 PM	21.565	21.5736			N/A
4/4/2019	EURMXN.f	9:30:00 AM	21.6407	21.6338			N/A
4/4/2019	EURMXN.f	11:30:00 AM	21.6464	21.646			N/A
4/4/2019	EURMXN.f	1:30:00 PM	21.6187	21.6202			N/A
4/4/2019	EURMXN.f	3:30:00 PM	21.5734	21.565			N/A
4/4/2019	EURNOK	9:30:00 AM	9.636	9.6434			N/A
4/4/2019	EURNOK	11:30:00 AM	9.6385	9.6511			N/A
4/4/2019	EURNOK	1:30:00 PM	9.6388	9.6497			N/A
4/4/2019	EURNOK	3:30:00 PM	9.6268	9.6376			N/A

4/4/2019	EURNOK.fx	9:30:00 AM	9.641	9.6379			N/A
4/4/2019	EURNOK.fx	11:30:00 AM	9.64375	9.64567			N/A
4/4/2019	EURNOK.fx	1:30:00 PM	9.64429	9.64433			N/A
4/4/2019	EURNOK.fx	3:30:00 PM	9.63244	9.63207			N/A
4/4/2019	EURNZD	9:30:00 AM	1.65578	1.65647			N/A
4/4/2019	EURNZD	11:30:00 AM	1.6562	1.65703			N/A
4/4/2019	EURNZD	1:30:00 PM	1.65656	1.65725			N/A
4/4/2019	EURNZD	3:30:00 PM	1.65973	1.66017			N/A
4/4/2019	EURNZD.fx	9:30:00 AM	1.65618	1.65605			N/A
4/4/2019	EURNZD.fx	11:30:00 AM	1.65663	1.6566			N/A
4/4/2019	EURNZD.fx	1:30:00 PM	1.65696	1.65683			N/A
4/4/2019	EURNZD.fx	3:30:00 PM	1.66012	1.65975			N/A
4/4/2019	EURPLN	9:30:00 AM	4.2914	4.2933			N/A
4/4/2019	EURPLN	11:30:00 AM	4.2937	4.2956			N/A
4/4/2019	EURPLN	1:30:00 PM	4.2901	4.2932			N/A
4/4/2019	EURPLN	3:30:00 PM	4.2883	4.2915			N/A
4/4/2019	EURPLN.fx	9:30:00 AM	4.29047	4.29392			N/A
4/4/2019	EURPLN.fx	11:30:00 AM	4.29217	4.29632			N/A
4/4/2019	EURPLN.fx	1:30:00 PM	4.2894	4.29382			N/A
4/4/2019	EURPLN.fx	3:30:00 PM	4.2875	4.29215			N/A
4/4/2019	EURRUB	9:30:00 AM					N/A
4/4/2019	EURRUB	11:30:00 AM	73.129	73.563			N/A
4/4/2019	EURRUB	1:30:00 PM	73.112	73.548			N/A
4/4/2019	EURRUB	3:30:00 PM	72.979	73.396			N/A
4/4/2019	EURSEK	9:30:00 AM	10.4209	10.4237			N/A
4/4/2019	EURSEK	11:30:00 AM	10.4117	10.4168			N/A
4/4/2019	EURSEK	1:30:00 PM	10.4151	10.4187			N/A
4/4/2019	EURSEK	3:30:00 PM	10.4095	10.4103			N/A
4/4/2019	EURSEK.fx	9:30:00 AM	10.42247	10.42184			N/A
4/4/2019	EURSEK.fx	11:30:00 AM	10.41351	10.41492			N/A
4/4/2019	EURSEK.fx	1:30:00 PM	10.41678	10.41689			N/A
4/4/2019	EURSEK.fx	3:30:00 PM	10.41096	10.40846			N/A
4/4/2019	EURSGD	9:30:00 AM	1.5205	1.5213			N/A
4/4/2019	EURSGD	11:30:00 AM	1.521	1.5217			N/A

4/4/2019	EURSGD	1:30:00 PM	1.5198	1.5206			N/A
4/4/2019	EURSGD	3:30:00 PM	1.5188	1.519			N/A
4/4/2019	EURSGD.fx	9:30:00 AM	1.52092	1.52087			N/A
4/4/2019	EURSGD.fx	11:30:00 AM	1.52137	1.52132			N/A
4/4/2019	EURSGD.fx	1:30:00 PM	1.52013	1.5202			N/A
4/4/2019	EURSGD.fx	3:30:00 PM	1.51908	1.51863			N/A
4/4/2019	EURUSD	9:30:00 AM	1.12386	1.12389			N/A
4/4/2019	EURUSD	11:30:00 AM	1.12366	1.1237			N/A
4/4/2019	EURUSD	1:30:00 PM	1.12285	1.12297			N/A
4/4/2019	EURUSD	3:30:00 PM	1.12187	1.12133			N/A
4/4/2019	EURUSD.fx	9:30:00 AM	1.12406	1.12399			N/A
4/4/2019	EURUSD.fx	11:30:00 AM	1.12387	1.12379			N/A
4/4/2019	EURUSD.fx	1:30:00 PM	1.12305	1.12308			N/A
4/4/2019	EURUSD.fx	3:30:00 PM	1.12207	1.12143			N/A
4/4/2019	EURZAR	9:30:00 AM	15.9472	15.9472			N/A
4/4/2019	EURZAR	11:30:00 AM	15.938	15.9564			N/A
4/4/2019	EURZAR	1:30:00 PM	15.9057	15.9207			N/A
4/4/2019	EURZAR	3:30:00 PM	15.8694	15.8872			N/A
4/4/2019	EURZAR.fx	9:30:00 AM	15.94652	15.94909			N/A
4/4/2019	EURZAR.fx	11:30:00 AM	15.93821	15.95734			N/A
4/4/2019	EURZAR.fx	1:30:00 PM	15.90505	15.92071			N/A
4/4/2019	EURZAR.fx	3:30:00 PM	15.86835	15.88797			N/A
4/4/2019	GBPAUD	9:30:00 AM	1.85177	1.85224			N/A
4/4/2019	GBPAUD	11:30:00 AM	1.85188	1.85263			N/A
4/4/2019	GBPAUD	1:30:00 PM	1.84907	1.84952			N/A
4/4/2019	GBPAUD	3:30:00 PM	1.8483	1.84808			N/A
4/4/2019	GBPAUD.fx	9:30:00 AM	1.85217	1.85184			N/A
4/4/2019	GBPAUD.fx	11:30:00 AM	1.85224	1.85225			N/A
4/4/2019	GBPAUD.fx	1:30:00 PM	1.84945	1.84912			N/A
4/4/2019	GBPAUD.fx	3:30:00 PM	1.84869	1.84772			N/A
4/4/2019	GBPCAD	9:30:00 AM	1.7598	1.76041			N/A
4/4/2019	GBPCAD	11:30:00 AM	1.7589	1.75963			N/A
4/4/2019	GBPCAD	1:30:00 PM	1.75646	1.75695			N/A
4/4/2019	GBPCAD	3:30:00 PM	1.75448	1.7552			N/A

4/4/2019	GBPCAD.fx	9:30:00 AM	1.76018	1.75997			N/A
4/4/2019	GBPCAD.fx	11:30:00 AM	1.75928	1.75922			N/A
4/4/2019	GBPCAD.fx	1:30:00 PM	1.75682	1.75661			N/A
4/4/2019	GBPCAD.fx	3:30:00 PM	1.75483	1.75482			N/A
4/4/2019	GBPCHF	9:30:00 AM	1.31499	1.31511			N/A
4/4/2019	GBPCHF	11:30:00 AM	1.3148	1.31508			N/A
4/4/2019	GBPCHF	1:30:00 PM	1.31286	1.31303			N/A
4/4/2019	GBPCHF	3:30:00 PM	1.31226	1.31236			N/A
4/4/2019	GBPCHF.fx	9:30:00 AM	1.31517	1.3149			N/A
4/4/2019	GBPCHF.fx	11:30:00 AM	1.31498	1.31488			N/A
4/4/2019	GBPCHF.fx	1:30:00 PM	1.31303	1.31285			N/A
4/4/2019	GBPCHF.fx	3:30:00 PM	1.31242	1.31221			N/A
4/4/2019	GBPCZK	9:30:00 AM	30.142	30.156			N/A
4/4/2019	GBPCZK	11:30:00 AM	30.094	30.114			N/A
4/4/2019	GBPCZK	1:30:00 PM	30.053	30.067			N/A
4/4/2019	GBPCZK	3:30:00 PM	30.049	30.056			N/A
4/4/2019	GBPDKK	9:30:00 AM	8.749	8.758			N/A
4/4/2019	GBPDKK	11:30:00 AM	8.746	8.756			N/A
4/4/2019	GBPDKK	1:30:00 PM	8.738	8.748			N/A
4/4/2019	GBPDKK	3:30:00 PM	8.734	8.742			N/A
4/4/2019	GBPDKK.fx	9:30:00 AM	8.7467	8.7576			N/A
4/4/2019	GBPDKK.fx	11:30:00 AM	8.7441	8.7558			N/A
4/4/2019	GBPDKK.fx	1:30:00 PM	8.7363	8.7481			N/A
4/4/2019	GBPDKK.fx	3:30:00 PM	8.7326	8.7428			N/A
4/4/2019	GBPHKD	9:30:00 AM	10.3401	10.3425			N/A
4/4/2019	GBPHKD	11:30:00 AM	10.3354	10.3401			N/A
4/4/2019	GBPHKD	1:30:00 PM	10.3207	10.3236			N/A
4/4/2019	GBPHKD	3:30:00 PM	10.3026	10.3078			N/A
4/4/2019	GBPHUF	9:30:00 AM	375.11	374.94			N/A
4/4/2019	GBPHUF	11:30:00 AM	374.77	375.22			N/A
4/4/2019	GBPHUF	1:30:00 PM	374.15	374.56			N/A
4/4/2019	GBPHUF	3:30:00 PM	374.05	374.24			N/A
4/4/2019	GBPJPY	9:30:00 AM	146.847	146.856			N/A
4/4/2019	GBPJPY	11:30:00 AM	146.718	146.748			N/A

4/4/2019	GBPJPY	1:30:00 PM	146.528	146.546			N/A
4/4/2019	GBPJPY	3:30:00 PM	146.365	146.399			N/A
4/4/2019	GBPJPY.fx	9:30:00 AM	146.867	146.837			N/A
4/4/2019	GBPJPY.fx	11:30:00 AM	146.737	146.729			N/A
4/4/2019	GBPJPY.fx	1:30:00 PM	146.546	146.528			N/A
4/4/2019	GBPJPY.fx	3:30:00 PM	146.382	146.382			N/A
4/4/2019	GBPMXN	9:30:00 AM	25.3594	25.3643			N/A
4/4/2019	GBPMXN	11:30:00 AM	25.3611	25.3739			N/A
4/4/2019	GBPMXN	1:30:00 PM	25.31	25.3188			N/A
4/4/2019	GBPMXN	3:30:00 PM	25.2341	25.2439			N/A
4/4/2019	GBPNOK	9:30:00 AM	11.2996	11.3051			N/A
4/4/2019	GBPNOK	11:30:00 AM	11.301	11.3112			N/A
4/4/2019	GBPNOK	1:30:00 PM	11.2911	11.301			N/A
4/4/2019	GBPNOK	3:30:00 PM	11.2718	11.2806			N/A
4/4/2019	GBPNOK.fx	9:30:00 AM	11.30441	11.30025			N/A
4/4/2019	GBPNOK.fx	11:30:00 AM	11.30596	11.30637			N/A
4/4/2019	GBPNOK.fx	1:30:00 PM	11.29616	11.29581			N/A
4/4/2019	GBPNOK.fx	3:30:00 PM	11.27631	11.27621			N/A
4/4/2019	GBPNZD	9:30:00 AM	1.94158	1.94213			N/A
4/4/2019	GBPNZD	11:30:00 AM	1.94158	1.94226			N/A
4/4/2019	GBPNZD	1:30:00 PM	1.94044	1.94089			N/A
4/4/2019	GBPNZD	3:30:00 PM	1.94305	1.94333			N/A
4/4/2019	GBPNZD.fx	9:30:00 AM	1.94197	1.94175			N/A
4/4/2019	GBPNZD.fx	11:30:00 AM	1.94193	1.94188			N/A
4/4/2019	GBPNZD.fx	1:30:00 PM	1.94077	1.94052			N/A
4/4/2019	GBPNZD.fx	3:30:00 PM	1.94339	1.94302			N/A
4/4/2019	GBPPLN	9:30:00 AM	5.0325	5.0328			N/A
4/4/2019	GBPPLN	11:30:00 AM	5.0346	5.0348			N/A
4/4/2019	GBPPLN	1:30:00 PM	5.0259	5.0266			N/A
4/4/2019	GBPPLN	3:30:00 PM	5.0221	5.0218			N/A
4/4/2019	GBPPLN.fx	9:30:00 AM	5.03024	5.03494			N/A
4/4/2019	GBPPLN.fx	11:30:00 AM	5.03246	5.03704			N/A
4/4/2019	GBPPLN.fx	1:30:00 PM	5.02358	5.02874			N/A
4/4/2019	GBPPLN.fx	3:30:00 PM	5.0195	5.02393			N/A

4/4/2019	GBPSEK	9:30:00 AM	12.216	12.2234			N/A
4/4/2019	GBPSEK	11:30:00 AM	12.2036	12.2116			N/A
4/4/2019	GBPSEK	1:30:00 PM	12.1971	12.2043			N/A
4/4/2019	GBPSEK	3:30:00 PM	12.1818	12.1911			N/A
4/4/2019	GBPSEK.fx	9:30:00 AM	12.21196	12.22713			N/A
4/4/2019	GBPSEK.fx	11:30:00 AM	12.20005	12.2154			N/A
4/4/2019	GBPSEK.fx	1:30:00 PM	12.19291	12.20781			N/A
4/4/2019	GBPSEK.fx	3:30:00 PM	12.17802	12.19502			N/A
4/4/2019	GBPSGD	9:30:00 AM	1.7831	1.7835			N/A
4/4/2019	GBPSGD	11:30:00 AM	1.7831	1.7837			N/A
4/4/2019	GBPSGD	1:30:00 PM	1.7802	1.7807			N/A
4/4/2019	GBPSGD	3:30:00 PM	1.7777	1.7784			N/A
4/4/2019	GBPSGD.fx	9:30:00 AM	1.78115	1.78531			N/A
4/4/2019	GBPSGD.fx	11:30:00 AM	1.78117	1.78549			N/A
4/4/2019	GBPSGD.fx	1:30:00 PM	1.77841	1.78251			N/A
4/4/2019	GBPSGD.fx	3:30:00 PM	1.77585	1.78024			N/A
4/4/2019	GBPUSD	9:30:00 AM	1.31803	1.3178			N/A
4/4/2019	GBPUSD	11:30:00 AM	1.31735	1.31734			N/A
4/4/2019	GBPUSD	1:30:00 PM	1.31541	1.31523			N/A
4/4/2019	GBPUSD	3:30:00 PM	1.31324	1.31315			N/A
4/4/2019	GBPUSD.fx	9:30:00 AM	1.31808	1.31774			N/A
4/4/2019	GBPUSD.fx	11:30:00 AM	1.31739	1.31729			N/A
4/4/2019	GBPUSD.fx	1:30:00 PM	1.31545	1.31518			N/A
4/4/2019	GBPUSD.fx	3:30:00 PM	1.31326	1.31311			N/A
4/4/2019	GBPZAR	9:30:00 AM	18.6934	18.7			N/A
4/4/2019	GBPZAR	11:30:00 AM	18.6801	18.7075			N/A
4/4/2019	GBPZAR	1:30:00 PM	18.6266	18.6481			N/A
4/4/2019	GBPZAR	3:30:00 PM	18.5753	18.6001			N/A
4/4/2019	GBPZAR.fx	9:30:00 AM	18.6988	18.6941			N/A
4/4/2019	GBPZAR.fx	11:30:00 AM	18.6869	18.7002			N/A
4/4/2019	GBPZAR.fx	1:30:00 PM	18.6339	18.6409			N/A
4/4/2019	GBPZAR.fx	3:30:00 PM	18.5819	18.595			N/A
4/4/2019	GOLD	9:30:00 AM	1292.86	1293.11			N/A
4/4/2019	GOLD	11:30:00 AM	1292.03	1292.22			N/A

4/4/2019	GOLD	1:30:00 PM	1291.31	1291.34			N/A
4/4/2019	GOLD	3:30:00 PM	1286.72	1284.61	2	2	N/A
4/4/2019	HKDJPY	9:30:00 AM	14.2	14.21			N/A
4/4/2019	HKDJPY	11:30:00 AM	14.19	14.2			N/A
4/4/2019	HKDJPY	1:30:00 PM	14.2	14.2			N/A
4/4/2019	HKDJPY	3:30:00 PM	14.2	14.21			N/A
4/4/2019	HKDJPY.fx	9:30:00 AM	14.191	14.198			N/A
4/4/2019	HKDJPY.fx	11:30:00 AM	14.185	14.193			N/A
4/4/2019	HKDJPY.fx	1:30:00 PM	14.188	14.194			N/A
4/4/2019	HKDJPY.fx	3:30:00 PM	14.197	14.201			N/A
4/4/2019	HUFJPY	9:30:00 AM	0.3914	0.3916			N/A
4/4/2019	HUFJPY	11:30:00 AM	0.3915	0.3918			N/A
4/4/2019	HUFJPY	1:30:00 PM	0.3915	0.3918			N/A
4/4/2019	HUFJPY	3:30:00 PM	0.3913	0.3915			N/A
4/4/2019	JP225.i	9:30:00 AM	21680.1	21696.55			N/A
4/4/2019	JP225.i	11:30:00 AM	21685.1	21705.1			N/A
4/4/2019	JP225.i	1:30:00 PM	21715.1	21730.1			N/A
4/4/2019	JP225.i	3:30:00 PM	21710.1	21730.1			N/A
4/4/2019	MXNJPY	9:30:00 AM	5.79	5.8			N/A
4/4/2019	MXNJPY	11:30:00 AM					N/A
4/4/2019	MXNJPY	1:30:00 PM	5.79	5.8			N/A
4/4/2019	MXNJPY	3:30:00 PM	5.8	5.81			N/A
4/4/2019	NASDAQ.i	9:30:00 AM					N/A
4/4/2019	NASDAQ.i	11:30:00 AM					N/A
4/4/2019	NASDAQ.i	1:30:00 PM					N/A
4/4/2019	NASDAQ.i	3:30:00 PM					N/A
4/4/2019	NOKJPY	9:30:00 AM	12.98	13.01			N/A
4/4/2019	NOKJPY	11:30:00 AM	12.97	13.01			N/A
4/4/2019	NOKJPY	1:30:00 PM	12.96	12.99			N/A
4/4/2019	NOKJPY	3:30:00 PM	12.97	13			N/A
4/4/2019	NOKJPY.fx	9:30:00 AM	12.992	12.993			N/A
4/4/2019	NOKJPY.fx	11:30:00 AM	12.974	12.982			N/A
4/4/2019	NOKJPY.fx	1:30:00 PM	12.97	12.976			N/A
4/4/2019	NOKJPY.fx	3:30:00 PM	12.979	12.985			N/A

4/4/2019	NZDCAD	9:30:00 AM	0.90606	0.90678			N/A
4/4/2019	NZDCAD	11:30:00 AM	0.90556	0.90629			N/A
4/4/2019	NZDCAD	1:30:00 PM	0.90487	0.90557			N/A
4/4/2019	NZDCAD	3:30:00 PM	0.90285	0.90331			N/A
4/4/2019	NZDCAD.fx	9:30:00 AM	0.90638	0.90645			N/A
4/4/2019	NZDCAD.fx	11:30:00 AM	0.90587	0.90595			N/A
4/4/2019	NZDCAD.fx	1:30:00 PM	0.9052	0.90525			N/A
4/4/2019	NZDCAD.fx	3:30:00 PM	0.90315	0.903			N/A
4/4/2019	NZDCHF	9:30:00 AM	0.6769	0.67754			N/A
4/4/2019	NZDCHF	11:30:00 AM	0.67678	0.67744			N/A
4/4/2019	NZDCHF	1:30:00 PM	0.67626	0.67693			N/A
4/4/2019	NZDCHF	3:30:00 PM	0.67502	0.67563			N/A
4/4/2019	NZDCHF.fx	9:30:00 AM	0.67723	0.67719			N/A
4/4/2019	NZDCHF.fx	11:30:00 AM	0.67712	0.6771			N/A
4/4/2019	NZDCHF.fx	1:30:00 PM	0.67659	0.67658			N/A
4/4/2019	NZDCHF.fx	3:30:00 PM	0.67536	0.6753			N/A
4/4/2019	NZDCZK	9:30:00 AM	15.52	15.531			N/A
4/4/2019	NZDCZK	11:30:00 AM	15.495	15.507			N/A
4/4/2019	NZDCZK	1:30:00 PM	15.484	15.495			N/A
4/4/2019	NZDCZK	3:30:00 PM	15.461	15.468			N/A
4/4/2019	NZDDKK	9:30:00 AM					N/A
4/4/2019	NZDDKK	11:30:00 AM					N/A
4/4/2019	NZDDKK	1:30:00 PM	4.503	4.506			N/A
4/4/2019	NZDDKK	3:30:00 PM	4.494	4.496			N/A
4/4/2019	NZDHKD	9:30:00 AM	5.3234	5.3262			N/A
4/4/2019	NZDHKD	11:30:00 AM	5.3211	5.324			N/A
4/4/2019	NZDHKD	1:30:00 PM	5.317	5.3196			N/A
4/4/2019	NZDHKD	3:30:00 PM	5.301	5.3039			N/A
4/4/2019	NZDHUF	9:30:00 AM	193.13	193.1			N/A
4/4/2019	NZDHUF	11:30:00 AM					N/A
4/4/2019	NZDHUF	1:30:00 PM	192.75	193.03			N/A
4/4/2019	NZDHUF	3:30:00 PM	192.43	192.6			N/A
4/4/2019	NZDJPY	9:30:00 AM	75.593	75.658			N/A
4/4/2019	NZDJPY	11:30:00 AM	75.524	75.6			N/A

4/4/2019	NZDJPY	1:30:00 PM	75.484	75.547			N/A
4/4/2019	NZDJPY	3:30:00 PM	75.305	75.359			N/A
4/4/2019	NZDJPY.fx	9:30:00 AM	75.625	75.625			N/A
4/4/2019	NZDJPY.fx	11:30:00 AM	75.556	75.567			N/A
4/4/2019	NZDJPY.fx	1:30:00 PM	75.515	75.513			N/A
4/4/2019	NZDJPY.fx	3:30:00 PM	75.337	75.328			N/A
4/4/2019	NZDMXN	9:30:00 AM	13.0594	13.0606			N/A
4/4/2019	NZDMXN	11:30:00 AM	13.0583	13.0632			N/A
4/4/2019	NZDMXN	1:30:00 PM	13.0403	13.0461			N/A
4/4/2019	NZDMXN	3:30:00 PM	12.9871	12.9893			N/A
4/4/2019	NZDNOK	9:30:00 AM	5.8176	5.8195			N/A
4/4/2019	NZDNOK	11:30:00 AM	5.818	5.8219			N/A
4/4/2019	NZDNOK	1:30:00 PM	5.817	5.8205			N/A
4/4/2019	NZDNOK	3:30:00 PM	5.7984	5.8001			N/A
4/4/2019	NZDPLN	9:30:00 AM	2.5909	2.5921			N/A
4/4/2019	NZDPLN	11:30:00 AM	2.5913	2.5926			N/A
4/4/2019	NZDPLN	1:30:00 PM	2.5886	2.5898			N/A
4/4/2019	NZDPLN	3:30:00 PM	2.5825	2.5838			N/A
4/4/2019	NZDSEK	9:30:00 AM	6.2883	6.2942			N/A
4/4/2019	NZDSEK	11:30:00 AM	6.2805	6.2874			N/A
4/4/2019	NZDSEK	1:30:00 PM	6.2817	6.2881			N/A
4/4/2019	NZDSEK	3:30:00 PM	6.2654	6.2713			N/A
4/4/2019	NZDSGD	9:30:00 AM	0.9181	0.9187			N/A
4/4/2019	NZDSGD	11:30:00 AM	0.9181	0.9185			N/A
4/4/2019	NZDSGD	1:30:00 PM	0.9173	0.9178			N/A
4/4/2019	NZDSGD	3:30:00 PM	0.9149	0.9153			N/A
4/4/2019	NZDSGD.fx	9:30:00 AM	0.91801	0.91861			N/A
4/4/2019	NZDSGD.fx	11:30:00 AM	0.91801	0.91867			N/A
4/4/2019	NZDSGD.fx	1:30:00 PM	0.91718	0.91771			N/A
4/4/2019	NZDSGD.fx	3:30:00 PM	0.91481	0.91521			N/A
4/4/2019	NZDUSD	9:30:00 AM	0.67864	0.6787			N/A
4/4/2019	NZDUSD	11:30:00 AM	0.67825	0.67843			N/A
4/4/2019	NZDUSD	1:30:00 PM	0.67772	0.67779			N/A
4/4/2019	NZDUSD	3:30:00 PM	0.67574	0.67566			N/A

4/4/2019	NZDUSD.fx	9:30:00 AM	0.67871	0.67872			N/A
4/4/2019	NZDUSD.fx	11:30:00 AM	0.67833	0.67845			N/A
4/4/2019	NZDUSD.fx	1:30:00 PM	0.67779	0.6778			N/A
4/4/2019	NZDUSD.fx	3:30:00 PM	0.67581	0.67568			N/A
4/4/2019	NZDZAR	9:30:00 AM	9.6204	9.6273			N/A
4/4/2019	NZDZAR	11:30:00 AM	9.6123	9.6302			N/A
4/4/2019	NZDZAR	1:30:00 PM	9.5916	9.6061			N/A
4/4/2019	NZDZAR	3:30:00 PM	9.5517	9.5638			N/A
4/4/2019	SEKJPY	9:30:00 AM	12.02	12.03			N/A
4/4/2019	SEKJPY	11:30:00 AM	12.02	12.03			N/A
4/4/2019	SEKJPY	1:30:00 PM					N/A
4/4/2019	SEKJPY	3:30:00 PM	12.02	12.02			N/A
4/4/2019	SEKJPY.fx	9:30:00 AM	12.008	12.025			N/A
4/4/2019	SEKJPY.fx	11:30:00 AM	12.01	12.029			N/A
4/4/2019	SEKJPY.fx	1:30:00 PM	12.002	12.02			N/A
4/4/2019	SEKJPY.fx	3:30:00 PM	12.003	12.02			N/A
4/4/2019	SGDJPY	9:30:00 AM	82.35	82.35			N/A
4/4/2019	SGDJPY	11:30:00 AM	82.26	82.28			N/A
4/4/2019	SGDJPY	1:30:00 PM	82.31	82.3			N/A
4/4/2019	SGDJPY	3:30:00 PM	82.3	82.32			N/A
4/4/2019	SILVER	9:30:00 AM	14.95	15.35			N/A
4/4/2019	SILVER	11:30:00 AM	14.91	15.29			N/A
4/4/2019	SILVER	1:30:00 PM	14.89	15.27			N/A
4/4/2019	SILVER	3:30:00 PM	14.78	15.14			N/A
4/4/2019	SPX500.i	9:30:00 AM	2872.55	2873.6			N/A
4/4/2019	SPX500.i	11:30:00 AM	2872.55	2873.35			N/A
4/4/2019	SPX500.i	1:30:00 PM	2874.55	2875.1			N/A
4/4/2019	SPX500.i	3:30:00 PM	2875.05	2875.85			N/A
4/4/2019	UK100.i	9:30:00 AM	7386.05	7388.13			N/A
4/4/2019	UK100.i	11:30:00 AM	7381.63	7382.63			N/A
4/4/2019	UK100.i	1:30:00 PM	7387.55	7388.63			N/A
4/4/2019	UK100.i	3:30:00 PM	7390.38	7391.38			N/A
4/4/2019	USDCAD	9:30:00 AM	1.33565	1.33555			N/A
4/4/2019	USDCAD	11:30:00 AM	1.33548	1.33555			N/A

4/4/2019	USDCAD	1:30:00 PM	1.33559	1.33559			N/A
4/4/2019	USDCAD	3:30:00 PM	1.33646	1.33639			N/A
4/4/2019	USDCAD.fx	9:30:00 AM	1.33567	1.33551			N/A
4/4/2019	USDCAD.fx	11:30:00 AM	1.3355	1.33552			N/A
4/4/2019	USDCAD.fx	1:30:00 PM	1.33562	1.33555			N/A
4/4/2019	USDCAD.fx	3:30:00 PM	1.33648	1.33637			N/A
4/4/2019	USDCHF	9:30:00 AM	0.99776	0.99786			N/A
4/4/2019	USDCHF	11:30:00 AM	0.99813	0.99812			N/A
4/4/2019	USDCHF	1:30:00 PM	0.99815	0.99828			N/A
4/4/2019	USDCHF	3:30:00 PM	0.99949	0.99913			N/A
4/4/2019	USDCHF.fx	9:30:00 AM	0.9978	0.9978			N/A
4/4/2019	USDCHF.fx	11:30:00 AM	0.99817	0.99807			N/A
4/4/2019	USDCHF.fx	1:30:00 PM	0.99819	0.99822			N/A
4/4/2019	USDCHF.fx	3:30:00 PM	0.99953	0.9991			N/A
4/4/2019	USDCZK	9:30:00 AM	22.885	22.903			N/A
4/4/2019	USDCZK	11:30:00 AM	22.861	22.882			N/A
4/4/2019	USDCZK	1:30:00 PM	22.861	22.883			N/A
4/4/2019	USDCZK	3:30:00 PM	22.901	22.911			N/A
4/4/2019	USDCZK.fx	9:30:00 AM	22.8928	22.8935			N/A
4/4/2019	USDCZK.fx	11:30:00 AM	22.8684	22.8749			N/A
4/4/2019	USDCZK.fx	1:30:00 PM	22.8688	22.8751			N/A
4/4/2019	USDCZK.fx	3:30:00 PM	22.9086	22.9007			N/A
4/4/2019	USDDKK	9:30:00 AM	6.6401	6.6433			N/A
4/4/2019	USDDKK	11:30:00 AM	6.641	6.6445			N/A
4/4/2019	USDDKK	1:30:00 PM	6.6452	6.6492			N/A
4/4/2019	USDDKK	3:30:00 PM	6.6555	6.6549			N/A
4/4/2019	USDDKK.fx	9:30:00 AM	6.64031	6.64132			N/A
4/4/2019	USDDKK.fx	11:30:00 AM	6.64147	6.64246			N/A
4/4/2019	USDDKK.fx	1:30:00 PM	6.6456	6.64722			N/A
4/4/2019	USDDKK.fx	3:30:00 PM	6.65481	6.65254			N/A
4/4/2019	USDHKD	9:30:00 AM	7.8486	7.8487			N/A
4/4/2019	USDHKD	11:30:00 AM					N/A
4/4/2019	USDHKD	1:30:00 PM	7.8491	7.8494			N/A
4/4/2019	USDHKD	3:30:00 PM	7.849	7.8492			N/A

4/4/2019	USDHKD.fx	9:30:00 AM	7.84851	7.84902			N/A
4/4/2019	USDHKD.fx	11:30:00 AM					N/A
4/4/2019	USDHKD.fx	1:30:00 PM	7.84916	7.84973			N/A
4/4/2019	USDHKD.fx	3:30:00 PM	7.84901	7.84953			N/A
4/4/2019	USDHUF	9:30:00 AM	284.73	284.67			N/A
4/4/2019	USDHUF	11:30:00 AM	284.54	285			N/A
4/4/2019	USDHUF	1:30:00 PM	284.5	284.97			N/A
4/4/2019	USDHUF	3:30:00 PM	284.94	285.27			N/A
4/4/2019	USDHUF.fx	9:30:00 AM	284.924	284.492			N/A
4/4/2019	USDHUF.fx	11:30:00 AM	284.733	284.795			N/A
4/4/2019	USDHUF.fx	1:30:00 PM	284.697	284.777			N/A
4/4/2019	USDHUF.fx	3:30:00 PM	285.133	285.062			N/A
4/4/2019	USDINR	9:30:00 AM	63.86	73.81			N/A
4/4/2019	USDINR	11:30:00 AM	64.09	74.07			N/A
4/4/2019	USDINR	1:30:00 PM					N/A
4/4/2019	USDINR	3:30:00 PM					N/A
4/4/2019	USDJPY	9:30:00 AM	111.419	111.432			N/A
4/4/2019	USDJPY	11:30:00 AM	111.377	111.391			N/A
4/4/2019	USDJPY	1:30:00 PM	111.403	111.41			N/A
4/4/2019	USDJPY	3:30:00 PM	111.477	111.46			N/A
4/4/2019	USDJPY.fx	9:30:00 AM	111.424	111.426			N/A
4/4/2019	USDJPY.fx	11:30:00 AM	111.383	111.383			N/A
4/4/2019	USDJPY.fx	1:30:00 PM	111.409	111.404			N/A
4/4/2019	USDJPY.fx	3:30:00 PM	111.483	111.454			N/A
4/4/2019	USDMXN	9:30:00 AM	19.251	19.248			N/A
4/4/2019	USDMXN	11:30:00 AM	19.258	19.264			N/A
4/4/2019	USDMXN	1:30:00 PM	19.247	19.254			N/A
4/4/2019	USDMXN	3:30:00 PM	19.227	19.228			N/A
4/4/2019	USDMXN.f	9:30:00 AM	19.2538	19.2441			N/A
4/4/2019	USDMXN.f	11:30:00 AM	19.261	19.2614			N/A
4/4/2019	USDMXN.f	1:30:00 PM	19.2501	19.2512			N/A
4/4/2019	USDMXN.f	3:30:00 PM	19.2303	19.225			N/A
4/4/2019	USDNOK	9:30:00 AM	8.5743	8.5782			N/A
4/4/2019	USDNOK	11:30:00 AM	8.5783	8.5866			N/A

4/4/2019	USDNOK	1:30:00 PM	8.584	8.5915			N/A
4/4/2019	USDNOK	3:30:00 PM	8.585	8.5901			N/A
4/4/2019	USDNOK.fx	9:30:00 AM	8.57805	8.57356			N/A
4/4/2019	USDNOK.fx	11:30:00 AM	8.58219	8.58222			N/A
4/4/2019	USDNOK.fx	1:30:00 PM	8.588	8.58714			N/A
4/4/2019	USDNOK.fx	3:30:00 PM	8.58833	8.58566			N/A
4/4/2019	USDPLN	9:30:00 AM	3.8186	3.8188			N/A
4/4/2019	USDPLN	11:30:00 AM	3.8215	3.8218			N/A
4/4/2019	USDPLN	1:30:00 PM	3.8205	3.8221			N/A
4/4/2019	USDPLN	3:30:00 PM	3.8245	3.8239			N/A
4/4/2019	USDPLN.fx	9:30:00 AM	3.81775	3.81952			N/A
4/4/2019	USDPLN.fx	11:30:00 AM	3.82073	3.82265			N/A
4/4/2019	USDPLN.fx	1:30:00 PM	3.81964	3.82302			N/A
4/4/2019	USDPLN.fx	3:30:00 PM	3.8235	3.82467			N/A
4/4/2019	USDRUB	9:30:00 AM					N/A
4/4/2019	USDRUB	11:30:00 AM	65.188	65.57			N/A
4/4/2019	USDRUB	1:30:00 PM	65.218	65.606			N/A
4/4/2019	USDRUB	3:30:00 PM	65.167	65.555			N/A
4/4/2019	USDSEK	9:30:00 AM	9.2706	9.2724			N/A
4/4/2019	USDSEK	11:30:00 AM	9.2644	9.2683			N/A
4/4/2019	USDSEK	1:30:00 PM	9.2734	9.277			N/A
4/4/2019	USDSEK	3:30:00 PM	9.2782	9.2817			N/A
4/4/2019	USDSEK.fx	9:30:00 AM	9.27309	9.27104			N/A
4/4/2019	USDSEK.fx	11:30:00 AM	9.26676	9.26661			N/A
4/4/2019	USDSEK.fx	1:30:00 PM	9.27582	9.27501			N/A
4/4/2019	USDSEK.fx	3:30:00 PM	9.28072	9.27972			N/A
4/4/2019	USDSGD	9:30:00 AM	1.3528	1.3532			N/A
4/4/2019	USDSGD	11:30:00 AM	1.3535	1.3539			N/A
4/4/2019	USDSGD	1:30:00 PM	1.3534	1.3537			N/A
4/4/2019	USDSGD	3:30:00 PM	1.354	1.3542			N/A
4/4/2019	USDSGD.fx	9:30:00 AM	1.35286	1.35322			N/A
4/4/2019	USDSGD.fx	11:30:00 AM	1.35345	1.35395			N/A
4/4/2019	USDSGD.fx	1:30:00 PM	1.35336	1.35378			N/A
4/4/2019	USDSGD.fx	3:30:00 PM	1.35386	1.35418			N/A

4/4/2019	USDZAR	9:30:00 AM	14.1877	14.187			N/A
4/4/2019	USDZAR	11:30:00 AM	14.1819	14.1991			N/A
4/4/2019	USDZAR	1:30:00 PM	14.1624	14.177			N/A
4/4/2019	USDZAR	3:30:00 PM	14.1481	14.1611			N/A
4/4/2019	USDZAR.fx	9:30:00 AM	14.19307	14.18201			N/A
4/4/2019	USDZAR.fx	11:30:00 AM	14.18714	14.19372			N/A
4/4/2019	USDZAR.fx	1:30:00 PM	14.16817	14.17172			N/A
4/4/2019	USDZAR.fx	3:30:00 PM	14.15417	14.15682			N/A
4/4/2019	XAUUSD	9:30:00 AM	1292.86	1293.03			N/A
4/4/2019	XAUUSD	11:30:00 AM	1291.98	1292.11			N/A
4/4/2019	XAUUSD	1:30:00 PM	1291.3	1291.19			N/A
4/4/2019	XAUUSD	3:30:00 PM	1286.69	1284.53			N/A
4/4/2019	ZARJPY	9:30:00 AM	7.84	7.85			N/A
4/4/2019	ZARJPY	11:30:00 AM	7.83	7.85			N/A
4/4/2019	ZARJPY	1:30:00 PM	7.84	7.86			N/A
4/4/2019	ZARJPY	3:30:00 PM	7.86	7.88			N/A
4/4/2019	ZARJPY.fx	9:30:00 AM	7.856	7.851			N/A
4/4/2019	ZARJPY.fx	11:30:00 AM	7.846	7.851			N/A
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4/4/2019	ZARJPY.fx	3:30:00 PM	7.873	7.877			N/A
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4/5/2019	#QQQ	1:30:00 PM					N/A
4/5/2019	#QQQ	3:30:00 PM					N/A
4/5/2019	#Ripple	9:30:00 AM	0.3692	0.3783			N/A
4/5/2019	#Ripple	11:30:00 AM	0.366	0.3754			N/A
4/5/2019	#Ripple	1:30:00 PM	0.3666	0.3762			N/A
4/5/2019	#Ripple	3:30:00 PM	0.362	0.3706			N/A
4/5/2019	#S	9:30:00 AM					N/A
4/5/2019	#S	11:30:00 AM					N/A
4/5/2019	#S	1:30:00 PM					N/A
4/5/2019	#S	3:30:00 PM					N/A
4/5/2019	#SBUX	9:30:00 AM					N/A
4/5/2019	#SBUX	11:30:00 AM					N/A

4/5/2019	#SBUX	1:30:00 PM					N/A
4/5/2019	#SBUX	3:30:00 PM					N/A
4/5/2019	#SNE	9:30:00 AM					N/A
4/5/2019	#SNE	11:30:00 AM					N/A
4/5/2019	#SNE	1:30:00 PM					N/A
4/5/2019	#SNE	3:30:00 PM					N/A
4/5/2019	#SPY	9:30:00 AM					N/A
4/5/2019	#SPY	11:30:00 AM					N/A
4/5/2019	#SPY	1:30:00 PM					N/A
4/5/2019	#SPY	3:30:00 PM					N/A
4/5/2019	#T	9:30:00 AM					N/A
4/5/2019	#T	11:30:00 AM					N/A
4/5/2019	#T	1:30:00 PM					N/A
4/5/2019	#T	3:30:00 PM					N/A
4/5/2019	#TEVA	9:30:00 AM					N/A
4/5/2019	#TEVA	11:30:00 AM					N/A
4/5/2019	#TEVA	1:30:00 PM					N/A
4/5/2019	#TEVA	3:30:00 PM					N/A
4/5/2019	#TRI	9:30:00 AM					N/A
4/5/2019	#TRI	11:30:00 AM					N/A
4/5/2019	#TRI	1:30:00 PM					N/A
4/5/2019	#TRI	3:30:00 PM					N/A
4/5/2019	#TRV	9:30:00 AM					N/A
4/5/2019	#TRV	11:30:00 AM					N/A
4/5/2019	#TRV	1:30:00 PM					N/A
4/5/2019	#TRV	3:30:00 PM					N/A
4/5/2019	#TSCO	9:30:00 AM					N/A
4/5/2019	#TSCO	11:30:00 AM					N/A
4/5/2019	#TSCO	1:30:00 PM					N/A
4/5/2019	#TSCO	3:30:00 PM					N/A
4/5/2019	#TSLA	9:30:00 AM					N/A
4/5/2019	#TSLA	11:30:00 AM					N/A
4/5/2019	#TSLA	1:30:00 PM					N/A
4/5/2019	#TSLA	3:30:00 PM					N/A

4/5/2019	#TWTR	9:30:00 AM					N/A
4/5/2019	#TWTR	11:30:00 AM					N/A
4/5/2019	#TWTR	1:30:00 PM					N/A
4/5/2019	#TWTR	3:30:00 PM					N/A
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4/5/2019	#UBS	11:30:00 AM					N/A
4/5/2019	#UBS	1:30:00 PM					N/A
4/5/2019	#UBS	3:30:00 PM					N/A
4/5/2019	#UL	9:30:00 AM					N/A
4/5/2019	#UL	11:30:00 AM					N/A
4/5/2019	#UL	1:30:00 PM					N/A
4/5/2019	#UL	3:30:00 PM					N/A
4/5/2019	#UPS	9:30:00 AM					N/A
4/5/2019	#UPS	11:30:00 AM					N/A
4/5/2019	#UPS	1:30:00 PM					N/A
4/5/2019	#UPS	3:30:00 PM					N/A
4/5/2019	#UTX	9:30:00 AM					N/A
4/5/2019	#UTX	11:30:00 AM					N/A
4/5/2019	#UTX	1:30:00 PM					N/A
4/5/2019	#UTX	3:30:00 PM					N/A
4/5/2019	#V	9:30:00 AM					N/A
4/5/2019	#V	11:30:00 AM					N/A
4/5/2019	#V	1:30:00 PM					N/A
4/5/2019	#V	3:30:00 PM					N/A
4/5/2019	#VOD	9:30:00 AM					N/A
4/5/2019	#VOD	11:30:00 AM					N/A
4/5/2019	#VOD	1:30:00 PM					N/A
4/5/2019	#VOD	3:30:00 PM					N/A
4/5/2019	#VZ	9:30:00 AM					N/A
4/5/2019	#VZ	11:30:00 AM					N/A
4/5/2019	#VZ	1:30:00 PM					N/A
4/5/2019	#VZ	3:30:00 PM					N/A
4/5/2019	#WDC	9:30:00 AM					N/A
4/5/2019	#WDC	11:30:00 AM					N/A

4/5/2019	#WDC	1:30:00 PM					N/A
4/5/2019	#WDC	3:30:00 PM					N/A
4/5/2019	#WFC	9:30:00 AM					N/A
4/5/2019	#WFC	11:30:00 AM					N/A
4/5/2019	#WFC	1:30:00 PM					N/A
4/5/2019	#WFC	3:30:00 PM					N/A
4/5/2019	#WMT	9:30:00 AM					N/A
4/5/2019	#WMT	11:30:00 AM					N/A
4/5/2019	#WMT	1:30:00 PM					N/A
4/5/2019	#WMT	3:30:00 PM					N/A
4/5/2019	#XOM	9:30:00 AM					N/A
4/5/2019	#XOM	11:30:00 AM					N/A
4/5/2019	#XOM	1:30:00 PM					N/A
4/5/2019	#XOM	3:30:00 PM					N/A
4/5/2019	#YHOO	9:30:00 AM					N/A
4/5/2019	#YHOO	11:30:00 AM					N/A
4/5/2019	#YHOO	1:30:00 PM					N/A
4/5/2019	#YHOO	3:30:00 PM					N/A
4/5/2019	#ZNGA	9:30:00 AM					N/A
4/5/2019	#ZNGA	11:30:00 AM					N/A
4/5/2019	#ZNGA	1:30:00 PM					N/A
4/5/2019	#ZNGA	3:30:00 PM					N/A
4/5/2019	AUDCAD	9:30:00 AM	0.95119	0.95187			N/A
4/5/2019	AUDCAD	11:30:00 AM	0.95104	0.95168			N/A
4/5/2019	AUDCAD	1:30:00 PM	0.9512	0.9518			N/A
4/5/2019	AUDCAD	3:30:00 PM	0.95393	0.95222			N/A
4/5/2019	AUDCAD.fx	9:30:00 AM	0.95151	0.95154			N/A
4/5/2019	AUDCAD.fx	11:30:00 AM	0.95136	0.95133			N/A
4/5/2019	AUDCAD.fx	1:30:00 PM	0.95152	0.95147			N/A
4/5/2019	AUDCAD.fx	3:30:00 PM	0.9542	0.9522			N/A
4/5/2019	AUDCHF	9:30:00 AM	0.71229	0.71295			N/A
4/5/2019	AUDCHF	11:30:00 AM	0.71199	0.71263			N/A
4/5/2019	AUDCHF	1:30:00 PM	0.71171	0.71239			N/A
4/5/2019	AUDCHF	3:30:00 PM	0.71231	0.71208			N/A

4/5/2019	AUDCHF.fx	9:30:00 AM	0.71263	0.71261			N/A
4/5/2019	AUDCHF.fx	11:30:00 AM	0.71233	0.71227			N/A
4/5/2019	AUDCHF.fx	1:30:00 PM	0.71205	0.71206			N/A
4/5/2019	AUDCHF.fx	3:30:00 PM	0.71266	0.71199			N/A
4/5/2019	AUDCZK	9:30:00 AM	16.263	16.277			N/A
4/5/2019	AUDCZK	11:30:00 AM	16.252	16.269			N/A
4/5/2019	AUDCZK	1:30:00 PM	16.227	16.239			N/A
4/5/2019	AUDCZK	3:30:00 PM	16.216	16.22			N/A
4/5/2019	AUDDKK	9:30:00 AM	4.7335	4.7381			N/A
4/5/2019	AUDDKK	11:30:00 AM	4.7336	4.7381			N/A
4/5/2019	AUDDKK	1:30:00 PM	4.73	4.7344			N/A
4/5/2019	AUDDKK	3:30:00 PM	4.731	4.7318			N/A
4/5/2019	AUDHKD	9:30:00 AM	5.5914	5.5952			N/A
4/5/2019	AUDHKD	11:30:00 AM	5.5874	5.5912			N/A
4/5/2019	AUDHKD	1:30:00 PM	5.5842	5.5873			N/A
4/5/2019	AUDHKD	3:30:00 PM	5.5888	5.585			N/A
4/5/2019	AUDHUF	9:30:00 AM	202.88	203.09			N/A
4/5/2019	AUDHUF	11:30:00 AM	203.3	203.52			N/A
4/5/2019	AUDHUF	1:30:00 PM	203.19	203.41			N/A
4/5/2019	AUDHUF	3:30:00 PM	202.99	203.1			N/A
4/5/2019	AUDJPY	9:30:00 AM	79.58	79.642			N/A
4/5/2019	AUDJPY	11:30:00 AM	79.542	79.597			N/A
4/5/2019	AUDJPY	1:30:00 PM	79.477	79.545			N/A
4/5/2019	AUDJPY	3:30:00 PM	79.52	79.471			N/A
4/5/2019	AUDJPY.fx	9:30:00 AM	79.613	79.607			N/A
4/5/2019	AUDJPY.fx	11:30:00 AM	79.576	79.562			N/A
4/5/2019	AUDJPY.fx	1:30:00 PM	79.511	79.51			N/A
4/5/2019	AUDJPY.fx	3:30:00 PM	79.556	79.469			N/A
4/5/2019	AUDMXN	9:30:00 AM	13.6234	13.6335			N/A
4/5/2019	AUDMXN	11:30:00 AM	13.6161	13.6259			N/A
4/5/2019	AUDMXN	1:30:00 PM	13.6111	13.6183			N/A
4/5/2019	AUDMXN	3:30:00 PM	13.6107	13.6094			N/A
4/5/2019	AUDNOK	9:30:00 AM	6.1227	6.1265			N/A
4/5/2019	AUDNOK	11:30:00 AM	6.124	6.1288			N/A

4/5/2019	AUDNOK	1:30:00 PM	6.1192	6.124			N/A
4/5/2019	AUDNOK	3:30:00 PM	6.1243	6.1215			N/A
4/5/2019	AUDNOK.fx	9:30:00 AM	6.1243	6.1249			N/A
4/5/2019	AUDNOK.fx	11:30:00 AM	6.1256	6.1273			N/A
4/5/2019	AUDNOK.fx	1:30:00 PM	6.1207	6.1225			N/A
4/5/2019	AUDNOK.fx	3:30:00 PM	6.1259	6.1241			N/A
4/5/2019	AUDNZD	9:30:00 AM	1.05379	1.05462			N/A
4/5/2019	AUDNZD	11:30:00 AM	1.05623	1.05703			N/A
4/5/2019	AUDNZD	1:30:00 PM	1.0558	1.05663			N/A
4/5/2019	AUDNZD	3:30:00 PM	1.05574	1.05588			N/A
4/5/2019	AUDNZD.fx	9:30:00 AM	1.05422	1.05419			N/A
4/5/2019	AUDNZD.fx	11:30:00 AM	1.05665	1.0566			N/A
4/5/2019	AUDNZD.fx	1:30:00 PM	1.05623	1.05619			N/A
4/5/2019	AUDNZD.fx	3:30:00 PM	1.0561	1.05571			N/A
4/5/2019	AUDPLN	9:30:00 AM	2.7202	2.7233			N/A
4/5/2019	AUDPLN	11:30:00 AM	2.7222	2.7253			N/A
4/5/2019	AUDPLN	1:30:00 PM	2.7184	2.7214			N/A
4/5/2019	AUDPLN	3:30:00 PM	2.7185	2.7192			N/A
4/5/2019	AUDSEK	9:30:00 AM	6.6021	6.6041			N/A
4/5/2019	AUDSEK	11:30:00 AM	6.6109	6.6136			N/A
4/5/2019	AUDSEK	1:30:00 PM	6.6055	6.6084			N/A
4/5/2019	AUDSEK	3:30:00 PM	6.6091	6.6045			N/A
4/5/2019	AUDSEK.fx	9:30:00 AM	6.5973	6.6087			N/A
4/5/2019	AUDSEK.fx	11:30:00 AM	6.6061	6.618			N/A
4/5/2019	AUDSEK.fx	1:30:00 PM	6.6009	6.613			N/A
4/5/2019	AUDSEK.fx	3:30:00 PM	6.6043	6.6132			N/A
4/5/2019	AUDSGD	9:30:00 AM	0.9646	0.9648			N/A
4/5/2019	AUDSGD	11:30:00 AM	0.9647	0.9648			N/A
4/5/2019	AUDSGD	1:30:00 PM	0.9638	0.9641			N/A
4/5/2019	AUDSGD	3:30:00 PM	0.9647	0.9641			N/A
4/5/2019	AUDSGD.fx	9:30:00 AM	0.96466	0.96479			N/A
4/5/2019	AUDSGD.fx	11:30:00 AM	0.96476	0.96476			N/A
4/5/2019	AUDSGD.fx	1:30:00 PM	0.96392	0.96399			N/A
4/5/2019	AUDSGD.fx	3:30:00 PM	0.96472	0.96411			N/A

4/5/2019	AUDUSD	9:30:00 AM	0.71269	0.71274			N/A
4/5/2019	AUDUSD	11:30:00 AM	0.71226	0.71233			N/A
4/5/2019	AUDUSD	1:30:00 PM	0.71176	0.71184			N/A
4/5/2019	AUDUSD	3:30:00 PM	0.71246	0.71174			N/A
4/5/2019	AUDUSD.fx	9:30:00 AM	0.71275	0.7127			N/A
4/5/2019	AUDUSD.fx	11:30:00 AM	0.71231	0.71228			N/A
4/5/2019	AUDUSD.fx	1:30:00 PM	0.71183	0.71178			N/A
4/5/2019	AUDUSD.fx	3:30:00 PM	0.71251	0.71184			N/A
4/5/2019	AUDZAR	9:30:00 AM	10.0271	10.0413			N/A
4/5/2019	AUDZAR	11:30:00 AM	10.0335	10.0488			N/A
4/5/2019	AUDZAR	1:30:00 PM	10.0215	10.0358			N/A
4/5/2019	AUDZAR	3:30:00 PM	10.0022	9.9985			N/A
4/5/2019	AUS200.i	9:30:00 AM	6183.74	6188.24			N/A
4/5/2019	AUS200.i	11:30:00 AM	6185.74	6189.74			N/A
4/5/2019	AUS200.i	1:30:00 PM	6190.74	6194.24			N/A
4/5/2019	AUS200.i	3:30:00 PM	6195.24	6192.14			N/A
4/5/2019	BCHUSD	9:30:00 AM	290.93	302.51			N/A
4/5/2019	BCHUSD	11:30:00 AM	292.03	302.2			N/A
4/5/2019	BCHUSD	1:30:00 PM	290.44	301.81			N/A
4/5/2019	BCHUSD	3:30:00 PM	295.05	305.31			N/A
4/5/2019	CADCHF	9:30:00 AM	0.74855	0.74928			N/A
4/5/2019	CADCHF	11:30:00 AM	0.74837	0.74905			N/A
4/5/2019	CADCHF	1:30:00 PM	0.74797	0.74867			N/A
4/5/2019	CADCHF	3:30:00 PM	0.74776	0.74674			N/A
4/5/2019	CADCHF.fx	9:30:00 AM	0.7489	0.74893			N/A
4/5/2019	CADCHF.fx	11:30:00 AM	0.74871	0.7487			N/A
4/5/2019	CADCHF.fx	1:30:00 PM	0.74831	0.74831			N/A
4/5/2019	CADCHF.fx	3:30:00 PM	0.74782	0.74643			N/A
4/5/2019	CADCZK	9:30:00 AM	17.093	17.11			N/A
4/5/2019	CADCZK	11:30:00 AM	17.087	17.105			N/A
4/5/2019	CADCZK	1:30:00 PM	17.056	17.069			N/A
4/5/2019	CADCZK	3:30:00 PM	17.04	17.029			N/A
4/5/2019	CADDDKK	9:30:00 AM	4.976	4.98			N/A
4/5/2019	CADDDKK	11:30:00 AM	4.977	4.981			N/A

4/5/2019	CADDDKK	1:30:00 PM	4.972	4.975			N/A
4/5/2019	CADDDKK	3:30:00 PM	4.968	4.965			N/A
4/5/2019	CADHKD	9:30:00 AM	5.8767	5.8806			N/A
4/5/2019	CADHKD	11:30:00 AM	5.874	5.8778			N/A
4/5/2019	CADHKD	1:30:00 PM	5.8695	5.8732			N/A
4/5/2019	CADHKD	3:30:00 PM	5.8728	5.8676			N/A
4/5/2019	CADHUF	9:30:00 AM	213.28	213.42			N/A
4/5/2019	CADHUF	11:30:00 AM	213.77	213.93			N/A
4/5/2019	CADHUF	1:30:00 PM	213.6	213.78			N/A
4/5/2019	CADHUF	3:30:00 PM	213.33	213.21			N/A
4/5/2019	CADJPY	9:30:00 AM	83.628	83.698			N/A
4/5/2019	CADJPY	11:30:00 AM	83.604	83.67			N/A
4/5/2019	CADJPY	1:30:00 PM	83.528	83.593	100	100	N/A
4/5/2019	CADJPY	3:30:00 PM	83.502	83.337			N/A
4/5/2019	CADJPY.fx	9:30:00 AM	83.662	83.664			N/A
4/5/2019	CADJPY.fx	11:30:00 AM	83.637	83.635			N/A
4/5/2019	CADJPY.fx	1:30:00 PM	83.561	83.559			N/A
4/5/2019	CADJPY.fx	3:30:00 PM	83.511	83.307			N/A
4/5/2019	CADMXN	9:30:00 AM	14.3186	14.3308			N/A
4/5/2019	CADMXN	11:30:00 AM	14.3143	14.3259			N/A
4/5/2019	CADMXN	1:30:00 PM	14.3055	14.3164			N/A
4/5/2019	CADMXN	3:30:00 PM	14.2992	14.2849			N/A
4/5/2019	CADNOK	9:30:00 AM	6.4332	6.4372			N/A
4/5/2019	CADNOK	11:30:00 AM	6.4363	6.4412			N/A
4/5/2019	CADNOK	1:30:00 PM	6.4306	6.4349			N/A
4/5/2019	CADNOK	3:30:00 PM	6.4278	6.4235			N/A
4/5/2019	CADPLN	9:30:00 AM	2.859	2.8609			N/A
4/5/2019	CADPLN	11:30:00 AM	2.8617	2.8636			N/A
4/5/2019	CADPLN	1:30:00 PM	2.8575	2.859			N/A
4/5/2019	CADPLN	3:30:00 PM	2.8535	2.8524			N/A
4/5/2019	CADSEK	9:30:00 AM	6.9374	6.9401			N/A
4/5/2019	CADSEK	11:30:00 AM	6.9473	6.951			N/A
4/5/2019	CADSEK	1:30:00 PM	6.9413	6.9442			N/A
4/5/2019	CADSEK	3:30:00 PM	6.9385	6.9328			N/A

4/5/2019	CADSGD	9:30:00 AM	1.0131	1.0134			N/A
4/5/2019	CADSGD	11:30:00 AM	1.0134	1.0137			N/A
4/5/2019	CADSGD	1:30:00 PM	1.0124	1.0126			N/A
4/5/2019	CADSGD	3:30:00 PM	1.0123	1.0119			N/A
4/5/2019	CADZAR	9:30:00 AM	10.5384	10.5541			N/A
4/5/2019	CADZAR	11:30:00 AM	10.5479	10.5653			N/A
4/5/2019	CADZAR	1:30:00 PM	10.5336	10.5503			N/A
4/5/2019	CADZAR	3:30:00 PM	10.5099	10.4949			N/A
4/5/2019	CHFCZK	9:30:00 AM	22.828	22.844			N/A
4/5/2019	CHFCZK	11:30:00 AM	22.825	22.842			N/A
4/5/2019	CHFCZK	1:30:00 PM	22.797	22.806			N/A
4/5/2019	CHFCZK	3:30:00 PM	22.785	22.782			N/A
4/5/2019	CHFDKK	9:30:00 AM	6.644	6.648			N/A
4/5/2019	CHFDKK	11:30:00 AM	6.647	6.65			N/A
4/5/2019	CHFDKK	1:30:00 PM	6.644	6.647			N/A
4/5/2019	CHFDKK	3:30:00 PM	6.644	6.643			N/A
4/5/2019	CHFDKK.fx	9:30:00 AM	6.6426	6.6484			N/A
4/5/2019	CHFDKK.fx	11:30:00 AM	6.6454	6.6515			N/A
4/5/2019	CHFDKK.fx	1:30:00 PM	6.6426	6.6486			N/A
4/5/2019	CHFDKK.fx	3:30:00 PM	6.6401	6.6446			N/A
4/5/2019	CHFHKD	9:30:00 AM	7.8481	7.8521			N/A
4/5/2019	CHFHKD	11:30:00 AM	7.8474	7.8513			N/A
4/5/2019	CHFHKD	1:30:00 PM	7.8448	7.8481			N/A
4/5/2019	CHFHKD	3:30:00 PM	7.8544	7.8481			N/A
4/5/2019	CHFHUF	9:30:00 AM	284.73	285.06			N/A
4/5/2019	CHFHUF	11:30:00 AM	285.43	285.83			N/A
4/5/2019	CHFHUF	1:30:00 PM	285.39	285.76			N/A
4/5/2019	CHFHUF	3:30:00 PM	285.15	285.37			N/A
4/5/2019	CHFJPY	9:30:00 AM	111.677	111.748			N/A
4/5/2019	CHFJPY	11:30:00 AM	111.672	111.745			N/A
4/5/2019	CHFJPY	1:30:00 PM	111.63	111.699			N/A
4/5/2019	CHFJPY	3:30:00 PM	111.632	111.635			N/A
4/5/2019	CHFJPY.fx	9:30:00 AM	111.71	111.714			N/A
4/5/2019	CHFJPY.fx	11:30:00 AM	111.704	111.712			N/A

4/5/2019	CHFJPY.fx	1:30:00 PM	111.662	111.666			N/A
4/5/2019	CHFJPY.fx	3:30:00 PM	111.651	111.606			N/A
4/5/2019	CHFMXN	9:30:00 AM	19.1206	19.1359			N/A
4/5/2019	CHFMXN	11:30:00 AM	19.1196	19.1349			N/A
4/5/2019	CHFMXN	1:30:00 PM	19.1187	19.1317			N/A
4/5/2019	CHFMXN	3:30:00 PM	19.1238	19.1118			N/A
4/5/2019	CHFNOK	9:30:00 AM	8.5913	8.5976			N/A
4/5/2019	CHFNOK	11:30:00 AM	8.5969	8.6048			N/A
4/5/2019	CHFNOK	1:30:00 PM	8.5934	8.6012			N/A
4/5/2019	CHFNOK	3:30:00 PM	8.5956	8.6007			N/A
4/5/2019	CHFNOK.fx	9:30:00 AM	8.59466	8.59427			N/A
4/5/2019	CHFNOK.fx	11:30:00 AM	8.60021	8.60152			N/A
4/5/2019	CHFNOK.fx	1:30:00 PM	8.59666	8.59778			N/A
4/5/2019	CHFNOK.fx	3:30:00 PM	8.59886	8.59734			N/A
4/5/2019	CHFPLN	9:30:00 AM	3.8179	3.8207			N/A
4/5/2019	CHFPLN	11:30:00 AM	3.8223	3.8254			N/A
4/5/2019	CHFPLN	1:30:00 PM	3.8184	3.8214			N/A
4/5/2019	CHFPLN	3:30:00 PM	3.8169	3.818			N/A
4/5/2019	CHFPLN.fx	9:30:00 AM	3.81543	3.82319			N/A
4/5/2019	CHFPLN.fx	11:30:00 AM	3.8199	3.82776			N/A
4/5/2019	CHFPLN.fx	1:30:00 PM	3.81602	3.82368			N/A
4/5/2019	CHFPLN.fx	3:30:00 PM	3.81334	3.82093			N/A
4/5/2019	CHFSEK	9:30:00 AM	9.2632	9.2668			N/A
4/5/2019	CHFSEK	11:30:00 AM	9.2798	9.2847			N/A
4/5/2019	CHFSEK	1:30:00 PM	9.2762	9.2804			N/A
4/5/2019	CHFSEK	3:30:00 PM	9.2767	9.2764			N/A
4/5/2019	CHFSGD	9:30:00 AM	1.3536	1.354			N/A
4/5/2019	CHFSGD	11:30:00 AM	1.3543	1.3547			N/A
4/5/2019	CHFSGD	1:30:00 PM	1.3536	1.354			N/A
4/5/2019	CHFSGD	3:30:00 PM	1.355	1.3537			N/A
4/5/2019	CHFSGD.fx	9:30:00 AM	1.3537	1.35382			N/A
4/5/2019	CHFSGD.fx	11:30:00 AM	1.35435	1.35451			N/A
4/5/2019	CHFSGD.fx	1:30:00 PM	1.35373	1.35386			N/A
4/5/2019	CHFSGD.fx	3:30:00 PM	1.35463	1.35356			N/A

4/5/2019	CHFZAR	9:30:00 AM	14.077	14.089			N/A
4/5/2019	CHFZAR	11:30:00 AM	14.0932	14.1072			N/A
4/5/2019	CHFZAR	1:30:00 PM	14.0808	14.0946			N/A
4/5/2019	CHFZAR	3:30:00 PM	14.0577	14.0359			N/A
4/5/2019	CZKJPY	9:30:00 AM					N/A
4/5/2019	CZKJPY	11:30:00 AM	4.892	4.895			N/A
4/5/2019	CZKJPY	1:30:00 PM	4.897	4.9			N/A
4/5/2019	CZKJPY	3:30:00 PM	4.902	4.901			N/A
4/5/2019	DAX30.i	9:30:00 AM	12012.51	12011.26			N/A
4/5/2019	DAX30.i	11:30:00 AM	11986.26	11985.26			N/A
4/5/2019	DAX30.i	1:30:00 PM	11991.51	11991.01			N/A
4/5/2019	DAX30.i	3:30:00 PM	12010.26	11998.51			N/A
4/5/2019	DJ30.i	9:30:00 AM					N/A
4/5/2019	DJ30.i	11:30:00 AM					N/A
4/5/2019	DJ30.i	1:30:00 PM					N/A
4/5/2019	DJ30.i	3:30:00 PM					N/A
4/5/2019	DKKJPY	9:30:00 AM					N/A
4/5/2019	DKKJPY	11:30:00 AM					N/A
4/5/2019	DKKJPY	1:30:00 PM					N/A
4/5/2019	DKKJPY	3:30:00 PM	16.82	16.83			N/A
4/5/2019	EURAUD	9:30:00 AM	1.57542	1.57582			N/A
4/5/2019	EURAUD	11:30:00 AM	1.57546	1.57571			N/A
4/5/2019	EURAUD	1:30:00 PM	1.5767	1.57711			N/A
4/5/2019	EURAUD	3:30:00 PM	1.57841	1.57661			N/A
4/5/2019	EURAUD.fx	9:30:00 AM	1.57561	1.57561			N/A
4/5/2019	EURAUD.fx	11:30:00 AM	1.57565	1.57551			N/A
4/5/2019	EURAUD.fx	1:30:00 PM	1.57688	1.57689			N/A
4/5/2019	EURAUD.fx	3:30:00 PM	1.57793	1.57645			N/A
4/5/2019	EURCAD	9:30:00 AM	1.49943	1.50024			N/A
4/5/2019	EURCAD	11:30:00 AM	1.49911	1.4999			N/A
4/5/2019	EURCAD	1:30:00 PM	1.50062	1.50137			N/A
4/5/2019	EURCAD	3:30:00 PM	1.5052	1.50209			N/A
4/5/2019	EURCAD.fx	9:30:00 AM	1.49985	1.49982			N/A
4/5/2019	EURCAD.fx	11:30:00 AM	1.49951	1.49949			N/A

4/5/2019	EURCAD.fx	1:30:00 PM	1.50102	1.50096			N/A
4/5/2019	EURCAD.fx	3:30:00 PM	1.50557	1.50198			N/A
4/5/2019	EURCHF	9:30:00 AM	1.1232	1.12323			N/A
4/5/2019	EURCHF	11:30:00 AM	1.12267	1.12276			N/A
4/5/2019	EURCHF	1:30:00 PM	1.12319	1.1233			N/A
4/5/2019	EURCHF	3:30:00 PM	1.1239	1.12347	100		N/A
4/5/2019	EURCHF.fx	9:30:00 AM	1.12326	1.12319			N/A
4/5/2019	EURCHF.fx	11:30:00 AM	1.12271	1.12269			N/A
4/5/2019	EURCHF.fx	1:30:00 PM	1.12323	1.12324			N/A
4/5/2019	EURCHF.fx	3:30:00 PM	1.12393	1.12353			N/A
4/5/2019	EURCZK	9:30:00 AM	25.628	25.666			N/A
4/5/2019	EURCZK	11:30:00 AM	25.612	25.652			N/A
4/5/2019	EURCZK	1:30:00 PM	25.593	25.625			N/A
4/5/2019	EURCZK	3:30:00 PM	25.582	25.61			N/A
4/5/2019	EURDKK	9:30:00 AM	7.4637	7.4646			N/A
4/5/2019	EURDKK	11:30:00 AM	7.4629	7.4639			N/A
4/5/2019	EURDKK	1:30:00 PM	7.4628	7.464			N/A
4/5/2019	EURDKK	3:30:00 PM	7.4602	7.4614			N/A
4/5/2019	EURGBP	9:30:00 AM	0.85677	0.85666			N/A
4/5/2019	EURGBP	11:30:00 AM	0.8575	0.85743			N/A
4/5/2019	EURGBP	1:30:00 PM	0.85838	0.85834			N/A
4/5/2019	EURGBP	3:30:00 PM	0.85993	0.85922			N/A
4/5/2019	EURGBP.fx	9:30:00 AM	0.8568	0.85662			N/A
4/5/2019	EURGBP.fx	11:30:00 AM	0.85752	0.85739			N/A
4/5/2019	EURGBP.fx	1:30:00 PM	0.85841	0.85829			N/A
4/5/2019	EURGBP.fx	3:30:00 PM	0.85988	0.85932			N/A
4/5/2019	EURHKD	9:30:00 AM	8.815	8.8195			N/A
4/5/2019	EURHKD	11:30:00 AM	8.8097	8.8154			N/A
4/5/2019	EURHKD	1:30:00 PM	8.8111	8.8163			N/A
4/5/2019	EURHKD	3:30:00 PM	8.8236	8.8175			N/A
4/5/2019	EURHKD.fx	9:30:00 AM	8.81775	8.81705			N/A
4/5/2019	EURHKD.fx	11:30:00 AM	8.8123	8.8129			N/A
4/5/2019	EURHKD.fx	1:30:00 PM	8.81361	8.81372			N/A
4/5/2019	EURHKD.fx	3:30:00 PM	8.82562	8.81492			N/A

4/5/2019	EURHUF	9:30:00 AM	319.78	320.44			N/A
4/5/2019	EURHUF	11:30:00 AM	320.4	321.02			N/A
4/5/2019	EURHUF	1:30:00 PM	320.5	321.09			N/A
4/5/2019	EURHUF	3:30:00 PM	320.42	321.13			N/A
4/5/2019	EURHUF.fx	9:30:00 AM	320.038	320.174			N/A
4/5/2019	EURHUF.fx	11:30:00 AM	320.677	320.861			N/A
4/5/2019	EURHUF.fx	1:30:00 PM	320.795	320.966			N/A
4/5/2019	EURHUF.fx	3:30:00 PM	320.673	320.885			N/A
4/5/2019	EURJPY	9:30:00 AM	125.481	125.477			N/A
4/5/2019	EURJPY	11:30:00 AM	125.413	125.42			N/A
4/5/2019	EURJPY	1:30:00 PM	125.423	125.43			N/A
4/5/2019	EURJPY	3:30:00 PM	125.481	125.412			N/A
4/5/2019	EURJPY.fx	9:30:00 AM	125.484	125.473			N/A
4/5/2019	EURJPY.fx	11:30:00 AM	125.414	125.417			N/A
4/5/2019	EURJPY.fx	1:30:00 PM	125.425	125.426			N/A
4/5/2019	EURJPY.fx	3:30:00 PM	125.475	125.413			N/A
4/5/2019	EURMXN	9:30:00 AM	21.4783	21.498			N/A
4/5/2019	EURMXN	11:30:00 AM	21.4667	21.4856			N/A
4/5/2019	EURMXN	1:30:00 PM	21.4771	21.4923			N/A
4/5/2019	EURMXN	3:30:00 PM	21.4927	21.4742			N/A
4/5/2019	EURMXN.fx	9:30:00 AM	21.4861	21.49			N/A
4/5/2019	EURMXN.fx	11:30:00 AM	21.4751	21.4772			N/A
4/5/2019	EURMXN.fx	1:30:00 PM	21.4856	21.4844			N/A
4/5/2019	EURMXN.fx	3:30:00 PM	21.4886	21.4656			N/A
4/5/2019	EURNOK	9:30:00 AM	9.6485	9.6587			N/A
4/5/2019	EURNOK	11:30:00 AM	9.65	9.6624			N/A
4/5/2019	EURNOK	1:30:00 PM	9.6507	9.6631			N/A
4/5/2019	EURNOK	3:30:00 PM	9.6571	9.6672			N/A
4/5/2019	EURNOK.fx	9:30:00 AM	9.65391	9.65331			N/A
4/5/2019	EURNOK.fx	11:30:00 AM	9.65558	9.65674			N/A
4/5/2019	EURNOK.fx	1:30:00 PM	9.65601	9.65739			N/A
4/5/2019	EURNOK.fx	3:30:00 PM	9.66272	9.6623			N/A
4/5/2019	EURNZD	9:30:00 AM	1.66131	1.66203			N/A
4/5/2019	EURNZD	11:30:00 AM	1.66512	1.66573			N/A

4/5/2019	EURNZD	1:30:00 PM	1.66577	1.66653			N/A
4/5/2019	EURNZD	3:30:00 PM	1.6668	1.66571			N/A
4/5/2019	EURNZD.fx	9:30:00 AM	1.66172	1.6616			N/A
4/5/2019	EURNZD.fx	11:30:00 AM	1.66555	1.6653			N/A
4/5/2019	EURNZD.fx	1:30:00 PM	1.66621	1.66612			N/A
4/5/2019	EURNZD.fx	3:30:00 PM	1.6665	1.6657			N/A
4/5/2019	EURPLN	9:30:00 AM	4.2883	4.2915			N/A
4/5/2019	EURPLN	11:30:00 AM	4.2915	4.2947			N/A
4/5/2019	EURPLN	1:30:00 PM	4.2891	4.2923			N/A
4/5/2019	EURPLN	3:30:00 PM	4.2885	4.2909			N/A
4/5/2019	EURPLN.fx	9:30:00 AM	4.28767	4.29232			N/A
4/5/2019	EURPLN.fx	11:30:00 AM	4.29077	4.29542			N/A
4/5/2019	EURPLN.fx	1:30:00 PM	4.28817	4.29292			N/A
4/5/2019	EURPLN.fx	3:30:00 PM	4.28782	4.29183			N/A
4/5/2019	EURRUB	9:30:00 AM					N/A
4/5/2019	EURRUB	11:30:00 AM	73.112	73.554			N/A
4/5/2019	EURRUB	1:30:00 PM	73.09	73.52			N/A
4/5/2019	EURRUB	3:30:00 PM	72.955	73.319			N/A
4/5/2019	EURSEK	9:30:00 AM	10.4061	10.409			N/A
4/5/2019	EURSEK	11:30:00 AM	10.4197	10.4241			N/A
4/5/2019	EURSEK	1:30:00 PM	10.4199	10.4249			N/A
4/5/2019	EURSEK	3:30:00 PM	10.4228	10.4274			N/A
4/5/2019	EURSEK.fx	9:30:00 AM	10.40788	10.40742			N/A
4/5/2019	EURSEK.fx	11:30:00 AM	10.42124	10.42221			N/A
4/5/2019	EURSEK.fx	1:30:00 PM	10.42156	10.42309			N/A
4/5/2019	EURSEK.fx	3:30:00 PM	10.42435	10.42551			N/A
4/5/2019	EURSGD	9:30:00 AM	1.5202	1.521			N/A
4/5/2019	EURSGD	11:30:00 AM	1.5203	1.5211			N/A
4/5/2019	EURSGD	1:30:00 PM	1.5203	1.5211			N/A
4/5/2019	EURSGD	3:30:00 PM	1.5223	1.5213			N/A
4/5/2019	EURSGD.fx	9:30:00 AM	1.52057	1.52063			N/A
4/5/2019	EURSGD.fx	11:30:00 AM	1.52059	1.52069			N/A
4/5/2019	EURSGD.fx	1:30:00 PM	1.52061	1.52067			N/A
4/5/2019	EURSGD.fx	3:30:00 PM	1.52222	1.52095			N/A

4/5/2019	EURUSD	9:30:00 AM	1.12319	1.12322			N/A
4/5/2019	EURUSD	11:30:00 AM	1.12249	1.12265			N/A
4/5/2019	EURUSD	1:30:00 PM	1.12265	1.12274			N/A
4/5/2019	EURUSD	3:30:00 PM	1.12441	1.12288	10	10	N/A
4/5/2019	EURUSD.fx	9:30:00 AM	1.12339	1.12331			N/A
4/5/2019	EURUSD.fx	11:30:00 AM	1.12269	1.12274			N/A
4/5/2019	EURUSD.fx	1:30:00 PM	1.12285	1.12284			N/A
4/5/2019	EURUSD.fx	3:30:00 PM	1.12441	1.12299			N/A
4/5/2019	EURZAR	9:30:00 AM	15.8156	15.8318			N/A
4/5/2019	EURZAR	11:30:00 AM	15.8242	15.8436			N/A
4/5/2019	EURZAR	1:30:00 PM	15.8187	15.8383			N/A
4/5/2019	EURZAR	3:30:00 PM	15.8024	15.7761			N/A
4/5/2019	EURZAR.fx	9:30:00 AM	15.81479	15.83314			N/A
4/5/2019	EURZAR.fx	11:30:00 AM	15.82422	15.84405			N/A
4/5/2019	EURZAR.fx	1:30:00 PM	15.81872	15.83928			N/A
4/5/2019	EURZAR.fx	3:30:00 PM	15.79904	15.77815			N/A
4/5/2019	GBPAUD	9:30:00 AM	1.83972	1.83996			N/A
4/5/2019	GBPAUD	11:30:00 AM	1.83812	1.83831			N/A
4/5/2019	GBPAUD	1:30:00 PM	1.8377	1.83796			N/A
4/5/2019	GBPAUD	3:30:00 PM	1.83648	1.83466			N/A
4/5/2019	GBPAUD.fx	9:30:00 AM	1.84009	1.83966			N/A
4/5/2019	GBPAUD.fx	11:30:00 AM	1.83853	1.83795			N/A
4/5/2019	GBPAUD.fx	1:30:00 PM	1.83807	1.83757			N/A
4/5/2019	GBPAUD.fx	3:30:00 PM	1.83568	1.83438			N/A
4/5/2019	GBPCAD	9:30:00 AM	1.75045	1.75088			N/A
4/5/2019	GBPCAD	11:30:00 AM	1.74865	1.74902			N/A
4/5/2019	GBPCAD	1:30:00 PM	1.7484	1.749			N/A
4/5/2019	GBPCAD	3:30:00 PM	1.75131	1.74799			N/A
4/5/2019	GBPCAD.fx	9:30:00 AM	1.75079	1.75053			N/A
4/5/2019	GBPCAD.fx	11:30:00 AM	1.74901	1.74867			N/A
4/5/2019	GBPCAD.fx	1:30:00 PM	1.74875	1.74861			N/A
4/5/2019	GBPCAD.fx	3:30:00 PM	1.75163	1.74829			N/A
4/5/2019	GBPCHF	9:30:00 AM	1.31104	1.31123			N/A
4/5/2019	GBPCHF	11:30:00 AM	1.30922	1.30944			N/A

4/5/2019	GBPCHE	1:30:00 PM	1.30849	1.30872			N/A
4/5/2019	GBPCHE	3:30:00 PM	1.3073	1.30694			N/A
4/5/2019	GBPCHE.fx	9:30:00 AM	1.31121	1.31105			N/A
4/5/2019	GBPCHE.fx	11:30:00 AM	1.3094	1.30925			N/A
4/5/2019	GBPCHE.fx	1:30:00 PM	1.30867	1.30853			N/A
4/5/2019	GBPCHE.fx	3:30:00 PM	1.30742	1.30685			N/A
4/5/2019	GBPCZK	9:30:00 AM	29.927	29.942			N/A
4/5/2019	GBPCZK	11:30:00 AM	29.885	29.9			N/A
4/5/2019	GBPCZK	1:30:00 PM	29.828	29.838			N/A
4/5/2019	GBPCZK	3:30:00 PM	29.779	29.767			N/A
4/5/2019	GBPDKK	9:30:00 AM	8.709	8.718			N/A
4/5/2019	GBPDKK	11:30:00 AM	8.702	8.711			N/A
4/5/2019	GBPDKK	1:30:00 PM	8.693	8.702			N/A
4/5/2019	GBPDKK	3:30:00 PM	8.683	8.686			N/A
4/5/2019	GBPDKK.fx	9:30:00 AM	8.7075	8.7185			N/A
4/5/2019	GBPDKK.fx	11:30:00 AM	8.6996	8.711			N/A
4/5/2019	GBPDKK.fx	1:30:00 PM	8.6907	8.7023			N/A
4/5/2019	GBPDKK.fx	3:30:00 PM	8.6798	8.6877			N/A
4/5/2019	GBPHKD	9:30:00 AM	10.2882	10.2921			N/A
4/5/2019	GBPHKD	11:30:00 AM	10.2734	10.277			N/A
4/5/2019	GBPHKD	1:30:00 PM	10.2641	10.2679			N/A
4/5/2019	GBPHKD	3:30:00 PM	10.2611	10.2556			N/A
4/5/2019	GBPHUF	9:30:00 AM	373.29	373.61			N/A
4/5/2019	GBPHUF	11:30:00 AM	373.72	374.13			N/A
4/5/2019	GBPHUF	1:30:00 PM	373.44	373.85			N/A
4/5/2019	GBPHUF	3:30:00 PM	372.73	372.84			N/A
4/5/2019	GBPJPY	9:30:00 AM	146.463	146.473			N/A
4/5/2019	GBPJPY	11:30:00 AM	146.254	146.272			N/A
4/5/2019	GBPJPY	1:30:00 PM	146.117	146.132			N/A
4/5/2019	GBPJPY	3:30:00 PM	145.956	145.921			N/A
4/5/2019	GBPJPY.fx	9:30:00 AM	146.482	146.458			N/A
4/5/2019	GBPJPY.fx	11:30:00 AM	146.274	146.254			N/A
4/5/2019	GBPJPY.fx	1:30:00 PM	146.136	146.115			N/A
4/5/2019	GBPJPY.fx	3:30:00 PM	145.948	145.91			N/A

4/5/2019	GBPMXN	9:30:00 AM	25.0698	25.0784			N/A
4/5/2019	GBPMXN	11:30:00 AM	25.035	25.0443			N/A
4/5/2019	GBPMXN	1:30:00 PM	25.0175	25.0267			N/A
4/5/2019	GBPMXN	3:30:00 PM	25.0004	24.9709			N/A
4/5/2019	GBPNOK	9:30:00 AM	11.2635	11.2713			N/A
4/5/2019	GBPNOK	11:30:00 AM	11.2567	11.266			N/A
4/5/2019	GBPNOK	1:30:00 PM	11.2454	11.2553			N/A
4/5/2019	GBPNOK	3:30:00 PM	11.2392	11.2405			N/A
4/5/2019	GBPNOK.fx	9:30:00 AM	11.26834	11.26646			N/A
4/5/2019	GBPNOK.fx	11:30:00 AM	11.26174	11.26136			N/A
4/5/2019	GBPNOK.fx	1:30:00 PM	11.25023	11.25046			N/A
4/5/2019	GBPNOK.fx	3:30:00 PM	11.24154	11.23861			N/A
4/5/2019	GBPNZD	9:30:00 AM	1.93943	1.93968			N/A
4/5/2019	GBPNZD	11:30:00 AM	1.94229	1.94245			N/A
4/5/2019	GBPNZD	1:30:00 PM	1.94087	1.94129			N/A
4/5/2019	GBPNZD	3:30:00 PM	1.93843	1.93743			N/A
4/5/2019	GBPNZD.fx	9:30:00 AM	1.93974	1.93935			N/A
4/5/2019	GBPNZD.fx	11:30:00 AM	1.94264	1.94208			N/A
4/5/2019	GBPNZD.fx	1:30:00 PM	1.94121	1.94095			N/A
4/5/2019	GBPNZD.fx	3:30:00 PM	1.93865	1.93713			N/A
4/5/2019	GBPPLN	9:30:00 AM	5.0073	5.0079			N/A
4/5/2019	GBPPLN	11:30:00 AM	5.0064	5.0072			N/A
4/5/2019	GBPPLN	1:30:00 PM	4.9981	4.9993			N/A
4/5/2019	GBPPLN	3:30:00 PM	4.9913	4.9891			N/A
4/5/2019	GBPPLN.fx	9:30:00 AM	5.00475	5.01004			N/A
4/5/2019	GBPPLN.fx	11:30:00 AM	5.00413	5.0094			N/A
4/5/2019	GBPPLN.fx	1:30:00 PM	4.99591	5.0013			N/A
4/5/2019	GBPPLN.fx	3:30:00 PM	4.98773	4.99289			N/A
4/5/2019	GBPSEK	9:30:00 AM	12.1441	12.1509			N/A
4/5/2019	GBPSEK	11:30:00 AM	12.1507	12.158			N/A
4/5/2019	GBPSEK	1:30:00 PM	12.1389	12.1463			N/A
4/5/2019	GBPSEK	3:30:00 PM	12.1294	12.1271			N/A
4/5/2019	GBPSEK.fx	9:30:00 AM	12.14024	12.15464			N/A
4/5/2019	GBPSEK.fx	11:30:00 AM	12.14716	12.16213			N/A

4/5/2019	GBPSEK.fx	1:30:00 PM	12.13506	12.14979			N/A
4/5/2019	GBPSEK.fx	3:30:00 PM	12.12062	12.13359			N/A
4/5/2019	GBPSGD	9:30:00 AM	1.7748	1.7752			N/A
4/5/2019	GBPSGD	11:30:00 AM	1.7733	1.7737			N/A
4/5/2019	GBPSGD	1:30:00 PM	1.7714	1.7719			N/A
4/5/2019	GBPSGD	3:30:00 PM	1.7706	1.7697			N/A
4/5/2019	GBPSGD.fx	9:30:00 AM	1.77288	1.777			N/A
4/5/2019	GBPSGD.fx	11:30:00 AM	1.77144	1.77551			N/A
4/5/2019	GBPSGD.fx	1:30:00 PM	1.76953	1.77365			N/A
4/5/2019	GBPSGD.fx	3:30:00 PM	1.76821	1.77159			N/A
4/5/2019	GBPUSD	9:30:00 AM	1.31137	1.31117			N/A
4/5/2019	GBPUSD	11:30:00 AM	1.30946	1.30925			N/A
4/5/2019	GBPUSD	1:30:00 PM	1.30825	1.30811			N/A
4/5/2019	GBPUSD	3:30:00 PM	1.30799	1.30641			N/A
4/5/2019	GBPUSD.fx	9:30:00 AM	1.31141	1.31113			N/A
4/5/2019	GBPUSD.fx	11:30:00 AM	1.30951	1.30921			N/A
4/5/2019	GBPUSD.fx	1:30:00 PM	1.30828	1.30806			N/A
4/5/2019	GBPUSD.fx	3:30:00 PM	1.30786	1.3064			N/A
4/5/2019	GBPZAR	9:30:00 AM	18.4578	18.4807			N/A
4/5/2019	GBPZAR	11:30:00 AM	18.4538	18.4779			N/A
4/5/2019	GBPZAR	1:30:00 PM	18.4268	18.4541			N/A
4/5/2019	GBPZAR	3:30:00 PM	18.3773	18.3582			N/A
4/5/2019	GBPZAR.fx	9:30:00 AM	18.4643	18.4745			N/A
4/5/2019	GBPZAR.fx	11:30:00 AM	18.4611	18.4715			N/A
4/5/2019	GBPZAR.fx	1:30:00 PM	18.4339	18.4472			N/A
4/5/2019	GBPZAR.fx	3:30:00 PM	18.3722	18.3531			N/A
4/5/2019	GOLD	9:30:00 AM	1287.71	1287.69			N/A
4/5/2019	GOLD	11:30:00 AM	1289.06	1289.45			N/A
4/5/2019	GOLD	1:30:00 PM	1289.96	1290.12			N/A
4/5/2019	GOLD	3:30:00 PM	1291.3	1288.65			N/A
4/5/2019	HKDJPY	9:30:00 AM					N/A
4/5/2019	HKDJPY	11:30:00 AM					N/A
4/5/2019	HKDJPY	1:30:00 PM					N/A
4/5/2019	HKDJPY	3:30:00 PM	14.22	14.22			N/A

4/5/2019	HKDJPY.fx	9:30:00 AM	14.226	14.234			N/A
4/5/2019	HKDJPY.fx	11:30:00 AM	14.227	14.234			N/A
4/5/2019	HKDJPY.fx	1:30:00 PM	14.226	14.233			N/A
4/5/2019	HKDJPY.fx	3:30:00 PM	14.224	14.218			N/A
4/5/2019	HUFJPY	9:30:00 AM	0.3922	0.3925			N/A
4/5/2019	HUFJPY	11:30:00 AM	0.3913	0.3916			N/A
4/5/2019	HUFJPY	1:30:00 PM	0.3911	0.3914			N/A
4/5/2019	HUFJPY	3:30:00 PM	0.3914	0.3917			N/A
4/5/2019	JP225.i	9:30:00 AM					N/A
4/5/2019	JP225.i	11:30:00 AM	21772.55	21790.05			N/A
4/5/2019	JP225.i	1:30:00 PM					N/A
4/5/2019	JP225.i	3:30:00 PM	21835.05	21809.22			N/A
4/5/2019	MXNJPY	9:30:00 AM	5.84	5.85			N/A
4/5/2019	MXNJPY	11:30:00 AM	5.84	5.85			N/A
4/5/2019	MXNJPY	1:30:00 PM	5.84	5.85			N/A
4/5/2019	MXNJPY	3:30:00 PM	5.84	5.84			N/A
4/5/2019	NASDAQ.i	9:30:00 AM					N/A
4/5/2019	NASDAQ.i	11:30:00 AM					N/A
4/5/2019	NASDAQ.i	1:30:00 PM					N/A
4/5/2019	NASDAQ.i	3:30:00 PM					N/A
4/5/2019	NOKJPY	9:30:00 AM	12.99	13.02			N/A
4/5/2019	NOKJPY	11:30:00 AM	12.98	13.01			N/A
4/5/2019	NOKJPY	1:30:00 PM	12.98	13.01			N/A
4/5/2019	NOKJPY	3:30:00 PM	12.97	13			N/A
4/5/2019	NOKJPY.fx	9:30:00 AM	12.996	13.002			N/A
4/5/2019	NOKJPY.fx	11:30:00 AM	12.984	12.992			N/A
4/5/2019	NOKJPY.fx	1:30:00 PM	12.985	12.993			N/A
4/5/2019	NOKJPY.fx	3:30:00 PM	12.981	12.983			N/A
4/5/2019	NZDCAD	9:30:00 AM	0.90226	0.90297			N/A
4/5/2019	NZDCAD	11:30:00 AM	0.90007	0.90069			N/A
4/5/2019	NZDCAD	1:30:00 PM	0.90055	0.90123			N/A
4/5/2019	NZDCAD	3:30:00 PM	0.90327	0.90207			N/A
4/5/2019	NZDCAD.fx	9:30:00 AM	0.90259	0.90264			N/A
4/5/2019	NZDCAD.fx	11:30:00 AM	0.9004	0.90036			N/A

4/5/2019	NZDCAD.fx	1:30:00 PM	0.90086	0.9009			N/A
4/5/2019	NZDCAD.fx	3:30:00 PM	0.90354	0.90213			N/A
4/5/2019	NZDCHF	9:30:00 AM	0.67564	0.67632			N/A
4/5/2019	NZDCHF	11:30:00 AM	0.67378	0.67443			N/A
4/5/2019	NZDCHF	1:30:00 PM	0.67381	0.67449			N/A
4/5/2019	NZDCHF	3:30:00 PM	0.67441	0.67461			N/A
4/5/2019	NZDCHF.fx	9:30:00 AM	0.67598	0.67597			N/A
4/5/2019	NZDCHF.fx	11:30:00 AM	0.67413	0.67407			N/A
4/5/2019	NZDCHF.fx	1:30:00 PM	0.67415	0.67414			N/A
4/5/2019	NZDCHF.fx	3:30:00 PM	0.67474	0.67436			N/A
4/5/2019	NZDCZK	9:30:00 AM	15.428	15.439			N/A
4/5/2019	NZDCZK	11:30:00 AM	15.384	15.395			N/A
4/5/2019	NZDCZK	1:30:00 PM	15.365	15.374			N/A
4/5/2019	NZDCZK	3:30:00 PM	15.365	15.363			N/A
4/5/2019	NZDDKK	9:30:00 AM					N/A
4/5/2019	NZDDKK	11:30:00 AM					N/A
4/5/2019	NZDDKK	1:30:00 PM	4.478	4.481			N/A
4/5/2019	NZDDKK	3:30:00 PM	4.479	4.479			N/A
4/5/2019	NZDHKD	9:30:00 AM	5.3031	5.3059			N/A
4/5/2019	NZDHKD	11:30:00 AM	5.2886	5.2914			N/A
4/5/2019	NZDHKD	1:30:00 PM	5.287	5.2894			N/A
4/5/2019	NZDHKD	3:30:00 PM	5.2958	5.2891			N/A
4/5/2019	NZDHUF	9:30:00 AM	192.4	192.67			N/A
4/5/2019	NZDHUF	11:30:00 AM	192.37	192.65			N/A
4/5/2019	NZDHUF	1:30:00 PM	192.34	192.61			N/A
4/5/2019	NZDHUF	3:30:00 PM	192.29	192.42			N/A
4/5/2019	NZDJPY	9:30:00 AM	75.483	75.55			N/A
4/5/2019	NZDJPY	11:30:00 AM	75.273	75.333			N/A
4/5/2019	NZDJPY	1:30:00 PM	75.245	75.312			N/A
4/5/2019	NZDJPY	3:30:00 PM	75.305	75.296			N/A
4/5/2019	NZDJPY.fx	9:30:00 AM	75.514	75.517			N/A
4/5/2019	NZDJPY.fx	11:30:00 AM	75.304	75.301			N/A
4/5/2019	NZDJPY.fx	1:30:00 PM	75.276	75.279			N/A
4/5/2019	NZDJPY.fx	3:30:00 PM	75.324	75.268			N/A

4/5/2019	NZDMXN	9:30:00 AM	12.924	12.929			N/A
4/5/2019	NZDMXN	11:30:00 AM	12.8876	12.8934			N/A
4/5/2019	NZDMXN	1:30:00 PM	12.8866	12.8916			N/A
4/5/2019	NZDMXN	3:30:00 PM	12.8974	12.8843			N/A
4/5/2019	NZDNOK	9:30:00 AM	5.806	5.8077			N/A
4/5/2019	NZDNOK	11:30:00 AM	5.7944	5.7979			N/A
4/5/2019	NZDNOK	1:30:00 PM	5.7921	5.7955			N/A
4/5/2019	NZDNOK	3:30:00 PM	5.7955	5.7951			N/A
4/5/2019	NZDPLN	9:30:00 AM	2.5801	2.5815			N/A
4/5/2019	NZDPLN	11:30:00 AM	2.5767	2.578			N/A
4/5/2019	NZDPLN	1:30:00 PM	2.5738	2.5749			N/A
4/5/2019	NZDPLN	3:30:00 PM	2.573	2.5724			N/A
4/5/2019	NZDSEK	9:30:00 AM	6.2577	6.264			N/A
4/5/2019	NZDSEK	11:30:00 AM	6.2522	6.2589			N/A
4/5/2019	NZDSEK	1:30:00 PM	6.2501	6.256			N/A
4/5/2019	NZDSEK	3:30:00 PM	6.2538	6.2556			N/A
4/5/2019	NZDSGD	9:30:00 AM	0.9149	0.9155			N/A
4/5/2019	NZDSGD	11:30:00 AM	0.9129	0.9133			N/A
4/5/2019	NZDSGD	1:30:00 PM	0.9124	0.913			N/A
4/5/2019	NZDSGD	3:30:00 PM	0.9138	0.9131			N/A
4/5/2019	NZDSGD.fx	9:30:00 AM	0.91482	0.9154			N/A
4/5/2019	NZDSGD.fx	11:30:00 AM	0.91288	0.91329			N/A
4/5/2019	NZDSGD.fx	1:30:00 PM	0.91238	0.91293			N/A
4/5/2019	NZDSGD.fx	3:30:00 PM	0.91361	0.91309			N/A
4/5/2019	NZDUSD	9:30:00 AM	0.67597	0.67606			N/A
4/5/2019	NZDUSD	11:30:00 AM	0.67404	0.67408			N/A
4/5/2019	NZDUSD	1:30:00 PM	0.67384	0.67393			N/A
4/5/2019	NZDUSD	3:30:00 PM	0.67499	0.67397			N/A
4/5/2019	NZDUSD.fx	9:30:00 AM	0.67605	0.67608			N/A
4/5/2019	NZDUSD.fx	11:30:00 AM	0.67412	0.67409			N/A
4/5/2019	NZDUSD.fx	1:30:00 PM	0.67391	0.67395			N/A
4/5/2019	NZDUSD.fx	3:30:00 PM	0.675	0.67398			N/A
4/5/2019	NZDZAR	9:30:00 AM	9.5092	9.5248			N/A
4/5/2019	NZDZAR	11:30:00 AM	9.4941	9.5107			N/A

4/5/2019	NZDZAR	1:30:00 PM	9.4862	9.503			N/A
4/5/2019	NZDZAR	3:30:00 PM	9.4749	9.4677			N/A
4/5/2019	SEKJPY	9:30:00 AM	12.06	12.07			N/A
4/5/2019	SEKJPY	11:30:00 AM	12.03	12.04			N/A
4/5/2019	SEKJPY	1:30:00 PM	12.04	12.04			N/A
4/5/2019	SEKJPY	3:30:00 PM	12.03	12.04			N/A
4/5/2019	SEKJPY.fx	9:30:00 AM	12.048	12.066			N/A
4/5/2019	SEKJPY.fx	11:30:00 AM	12.024	12.043			N/A
4/5/2019	SEKJPY.fx	1:30:00 PM	12.025	12.043			N/A
4/5/2019	SEKJPY.fx	3:30:00 PM	12.026	12.039			N/A
4/5/2019	SGDJPY	9:30:00 AM	82.49	82.52			N/A
4/5/2019	SGDJPY	11:30:00 AM	82.46	82.47			N/A
4/5/2019	SGDJPY	1:30:00 PM	82.49	82.48			N/A
4/5/2019	SGDJPY	3:30:00 PM	82.44	82.4			N/A
4/5/2019	SILVER	9:30:00 AM	14.93	15.31			N/A
4/5/2019	SILVER	11:30:00 AM	14.96	15.35			N/A
4/5/2019	SILVER	1:30:00 PM	15	15.38			N/A
4/5/2019	SILVER	3:30:00 PM	14.96	15.32			N/A
4/5/2019	SPX500.i	9:30:00 AM	2884.25	2885.3			N/A
4/5/2019	SPX500.i	11:30:00 AM	2883.5	2884.55			N/A
4/5/2019	SPX500.i	1:30:00 PM	2883.5	2884.55			N/A
4/5/2019	SPX500.i	3:30:00 PM	2889.23	2883.6			N/A
4/5/2019	UK100.i	9:30:00 AM	7412.56	7413.98			N/A
4/5/2019	UK100.i	11:30:00 AM	7413.31	7413.39			N/A
4/5/2019	UK100.i	1:30:00 PM	7421.48	7422.64			N/A
4/5/2019	UK100.i	3:30:00 PM	7432.14	7425.06			N/A
4/5/2019	USDCAD	9:30:00 AM	1.33511	1.33517			N/A
4/5/2019	USDCAD	11:30:00 AM	1.33565	1.33564			N/A
4/5/2019	USDCAD	1:30:00 PM	1.33677	1.33686			N/A
4/5/2019	USDCAD	3:30:00 PM	1.34021	1.33608			N/A
4/5/2019	USDCAD.fx	9:30:00 AM	1.33512	1.33514			N/A
4/5/2019	USDCAD.fx	11:30:00 AM	1.33566	1.33562			N/A
4/5/2019	USDCAD.fx	1:30:00 PM	1.3368	1.33683			N/A
4/5/2019	USDCAD.fx	3:30:00 PM	1.3402	1.33617			N/A

4/5/2019	USDCHF	9:30:00 AM	0.99982	0.99996			N/A
4/5/2019	USDCHF	11:30:00 AM	0.99997	1.00007			N/A
4/5/2019	USDCHF	1:30:00 PM	1.00028	1.00038			N/A
4/5/2019	USDCHF	3:30:00 PM	1.00054	0.99938			N/A
4/5/2019	USDCHF.fx	9:30:00 AM	0.99986	0.9999			N/A
4/5/2019	USDCHF.fx	11:30:00 AM	0.99999	1			N/A
4/5/2019	USDCHF.fx	1:30:00 PM	1.00032	1.00032			N/A
4/5/2019	USDCHF.fx	3:30:00 PM	1.00057	0.99935			N/A
4/5/2019	USDCZK	9:30:00 AM	22.838	22.86			N/A
4/5/2019	USDCZK	11:30:00 AM	22.838	22.861			N/A
4/5/2019	USDCZK	1:30:00 PM	22.816	22.833			N/A
4/5/2019	USDCZK	3:30:00 PM	22.802	22.797			N/A
4/5/2019	USDCZK.fx	9:30:00 AM	22.8453	22.8529			N/A
4/5/2019	USDCZK.fx	11:30:00 AM	22.8465	22.8515			N/A
4/5/2019	USDCZK.fx	1:30:00 PM	22.8246	22.8246			N/A
4/5/2019	USDCZK.fx	3:30:00 PM	22.8067	22.7994			N/A
4/5/2019	USDDKK	9:30:00 AM	6.6441	6.6473			N/A
4/5/2019	USDDKK	11:30:00 AM	6.6471	6.6514			N/A
4/5/2019	USDDKK	1:30:00 PM	6.6469	6.6507			N/A
4/5/2019	USDDKK	3:30:00 PM	6.6465	6.6424			N/A
4/5/2019	USDDKK.fx	9:30:00 AM	6.64434	6.64531			N/A
4/5/2019	USDDKK.fx	11:30:00 AM	6.64768	6.64929			N/A
4/5/2019	USDDKK.fx	1:30:00 PM	6.64735	6.64866			N/A
4/5/2019	USDDKK.fx	3:30:00 PM	6.64664	6.64026			N/A
4/5/2019	USDHKD	9:30:00 AM	7.8488	7.8492			N/A
4/5/2019	USDHKD	11:30:00 AM	7.8486	7.8487			N/A
4/5/2019	USDHKD	1:30:00 PM					N/A
4/5/2019	USDHKD	3:30:00 PM	7.8494	7.8498			N/A
4/5/2019	USDHKD.fx	9:30:00 AM	7.84883	7.8494			N/A
4/5/2019	USDHKD.fx	11:30:00 AM	7.84905	7.8496			N/A
4/5/2019	USDHKD.fx	1:30:00 PM					N/A
4/5/2019	USDHKD.fx	3:30:00 PM	7.84927	7.84984			N/A
4/5/2019	USDHUF	9:30:00 AM	284.75	285.15			N/A
4/5/2019	USDHUF	11:30:00 AM	285.46	285.94			N/A

4/5/2019	USDHUF	1:30:00 PM	285.52	285.99			N/A
4/5/2019	USDHUF	3:30:00 PM	285.4	285.49			N/A
4/5/2019	USDHUF.fx	9:30:00 AM	284.928	284.956			N/A
4/5/2019	USDHUF.fx	11:30:00 AM	285.666	285.727			N/A
4/5/2019	USDHUF.fx	1:30:00 PM	285.731	285.797			N/A
4/5/2019	USDHUF.fx	3:30:00 PM	285.584	285.329			N/A
4/5/2019	USDINR	9:30:00 AM	64.17	74.14			N/A
4/5/2019	USDINR	11:30:00 AM	64.32	74.23			N/A
4/5/2019	USDINR	1:30:00 PM					N/A
4/5/2019	USDINR	3:30:00 PM					N/A
4/5/2019	USDJPY	9:30:00 AM	111.693	111.708			N/A
4/5/2019	USDJPY	11:30:00 AM	111.705	111.714			N/A
4/5/2019	USDJPY	1:30:00 PM	111.698	111.706			N/A
4/5/2019	USDJPY	3:30:00 PM	111.68	111.581	10000	10000	N/A
4/5/2019	USDJPY.fx	9:30:00 AM	111.698	111.702			N/A
4/5/2019	USDJPY.fx	11:30:00 AM	111.71	111.707			N/A
4/5/2019	USDJPY.fx	1:30:00 PM	111.703	111.7			N/A
4/5/2019	USDJPY.fx	3:30:00 PM	111.684	111.58			N/A
4/5/2019	USDMXN	9:30:00 AM	19.125	19.131			N/A
4/5/2019	USDMXN	11:30:00 AM	19.126	19.133			N/A
4/5/2019	USDMXN	1:30:00 PM	19.131	19.137			N/A
4/5/2019	USDMXN	3:30:00 PM	19.133	19.108			N/A
4/5/2019	USDMXN.f	9:30:00 AM	19.128	19.1285			N/A
4/5/2019	USDMXN.f	11:30:00 AM	19.1297	19.129			N/A
4/5/2019	USDMXN.f	1:30:00 PM	19.1344	19.1334			N/A
4/5/2019	USDMXN.f	3:30:00 PM	19.1344	19.1055			N/A
4/5/2019	USDNOK	9:30:00 AM	8.5904	8.597			N/A
4/5/2019	USDNOK	11:30:00 AM	8.5967	8.6055			N/A
4/5/2019	USDNOK	1:30:00 PM	8.5962	8.6049			N/A
4/5/2019	USDNOK	3:30:00 PM	8.6007	8.5972			N/A
4/5/2019	USDNOK.fx	9:30:00 AM	8.59412	8.59248			N/A
4/5/2019	USDNOK.fx	11:30:00 AM	8.6004	8.60111			N/A
4/5/2019	USDNOK.fx	1:30:00 PM	8.59983	8.60051			N/A
4/5/2019	USDNOK.fx	3:30:00 PM	8.60454	8.59435			N/A

4/5/2019	USDPLN	9:30:00 AM	3.8183	3.8194			N/A
4/5/2019	USDPLN	11:30:00 AM	3.8229	3.8247			N/A
4/5/2019	USDPLN	1:30:00 PM	3.8204	3.8218			N/A
4/5/2019	USDPLN	3:30:00 PM	3.8193	3.8151			N/A
4/5/2019	USDPLN.fx	9:30:00 AM	3.8174	3.82016			N/A
4/5/2019	USDPLN.fx	11:30:00 AM	3.82214	3.82551			N/A
4/5/2019	USDPLN.fx	1:30:00 PM	3.81954	3.82266			N/A
4/5/2019	USDPLN.fx	3:30:00 PM	3.8184	3.81728			N/A
4/5/2019	USDRUB	9:30:00 AM					N/A
4/5/2019	USDRUB	11:30:00 AM	65.234	65.627			N/A
4/5/2019	USDRUB	1:30:00 PM	65.207	65.592			N/A
4/5/2019	USDRUB	3:30:00 PM	65.09	65.379			N/A
4/5/2019	USDSEK	9:30:00 AM	9.2623	9.266			N/A
4/5/2019	USDSEK	11:30:00 AM	9.2801	9.2845			N/A
4/5/2019	USDSEK	1:30:00 PM	9.2796	9.284			N/A
4/5/2019	USDSEK	3:30:00 PM	9.2808	9.2721			N/A
4/5/2019	USDSEK.fx	9:30:00 AM	9.26466	9.26439			N/A
4/5/2019	USDSEK.fx	11:30:00 AM	9.2826	9.28293			N/A
4/5/2019	USDSEK.fx	1:30:00 PM	9.2821	9.28223			N/A
4/5/2019	USDSEK.fx	3:30:00 PM	9.28329	9.27287			N/A
4/5/2019	USDSGD	9:30:00 AM	1.3534	1.3538			N/A
4/5/2019	USDSGD	11:30:00 AM	1.3543	1.3547			N/A
4/5/2019	USDSGD	1:30:00 PM	1.3541	1.3545			N/A
4/5/2019	USDSGD	3:30:00 PM	1.3542	1.3542			N/A
4/5/2019	USDSGD.fx	9:30:00 AM	1.35341	1.3538			N/A
4/5/2019	USDSGD.fx	11:30:00 AM	1.35417	1.35469			N/A
4/5/2019	USDSGD.fx	1:30:00 PM	1.354	1.3545			N/A
4/5/2019	USDSGD.fx	3:30:00 PM	1.35414	1.35422			N/A
4/5/2019	USDZAR	9:30:00 AM	14.0782	14.0941			N/A
4/5/2019	USDZAR	11:30:00 AM	14.0943	14.112			N/A
4/5/2019	USDZAR	1:30:00 PM	14.0873	14.1055			N/A
4/5/2019	USDZAR	3:30:00 PM	14.0532	14.0439			N/A
4/5/2019	USDZAR.fx	9:30:00 AM	14.08327	14.08886			N/A
4/5/2019	USDZAR.fx	11:30:00 AM	14.10027	14.10642			N/A

4/5/2019	USDZAR.fx	1:30:00 PM	14.09306	14.09962			N/A
4/5/2019	USDZAR.fx	3:30:00 PM	14.05096	14.0393			N/A
4/5/2019	XAUUSD	9:30:00 AM	1287.7	1287.68			N/A
4/5/2019	XAUUSD	11:30:00 AM	1289.05	1289.37			N/A
4/5/2019	XAUUSD	1:30:00 PM	1289.95	1290.07			N/A
4/5/2019	XAUUSD	3:30:00 PM	1291.09	1288.56			N/A
4/5/2019	ZARJPY	9:30:00 AM					N/A
4/5/2019	ZARJPY	11:30:00 AM					N/A
4/5/2019	ZARJPY	1:30:00 PM	7.91	7.93			N/A
4/5/2019	ZARJPY	3:30:00 PM	7.94	7.95			N/A
4/5/2019	ZARJPY.fx	9:30:00 AM	7.929	7.932			N/A
4/5/2019	ZARJPY.fx	11:30:00 AM	7.918	7.922			N/A
4/5/2019	ZARJPY.fx	1:30:00 PM	7.922	7.926			N/A
4/5/2019	ZARJPY.fx	3:30:00 PM	7.952	7.943			N/A
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4/8/2019	#Bitcoin	11:30:00 AM	5218.86	5271.21			N/A
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4/8/2019	#CL.f	11:30:00 AM	63.472	63.474			N/A
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4/8/2019	#Litecoin	11:30:00 AM	88.3	90.24			N/A
4/8/2019	#Litecoin	1:30:00 PM	88.63	90.43			N/A
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4/8/2019	#NG.f	9:30:00 AM					N/A
4/8/2019	#NG.f	11:30:00 AM	2.674	2.694			N/A
4/8/2019	#NG.f	1:30:00 PM	2.668	2.687			N/A
4/8/2019	#NG.f	3:30:00 PM	2.666	2.683			N/A
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4/8/2019	#ORCL	1:30:00 PM					N/A
4/8/2019	#ORCL	3:30:00 PM					N/A
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4/8/2019	#PEP	3:30:00 PM					N/A
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4/8/2019	#T	3:30:00 PM					N/A
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4/8/2019	#TEVA	3:30:00 PM					N/A
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4/8/2019	#TRI	3:30:00 PM					N/A
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4/8/2019	#TRV	1:30:00 PM					N/A
4/8/2019	#TRV	3:30:00 PM					N/A
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4/8/2019	#TSCO	11:30:00 AM					N/A
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4/8/2019	#TWTR	3:30:00 PM					N/A
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4/8/2019	#WFC	1:30:00 PM					N/A
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4/8/2019	#YHOO	1:30:00 PM					N/A
4/8/2019	#YHOO	3:30:00 PM					N/A
4/8/2019	#ZNGA	9:30:00 AM					N/A
4/8/2019	#ZNGA	11:30:00 AM					N/A
4/8/2019	#ZNGA	1:30:00 PM					N/A
4/8/2019	#ZNGA	3:30:00 PM					N/A
4/8/2019	AUDCAD	9:30:00 AM	0.94934	0.94989			N/A
4/8/2019	AUDCAD	11:30:00 AM	0.95017	0.95087			N/A
4/8/2019	AUDCAD	1:30:00 PM	0.94944	0.95021			N/A
4/8/2019	AUDCAD	3:30:00 PM	0.94977	0.95028			N/A
4/8/2019	AUDCAD.fx	9:30:00 AM	0.94968	0.94955			N/A
4/8/2019	AUDCAD.fx	11:30:00 AM	0.95052	0.95053			N/A
4/8/2019	AUDCAD.fx	1:30:00 PM	0.94976	0.94987			N/A
4/8/2019	AUDCAD.fx	3:30:00 PM	0.95008	0.94994			N/A
4/8/2019	AUDCHF	9:30:00 AM	0.70853	0.70919			N/A
4/8/2019	AUDCHF	11:30:00 AM	0.70961	0.71027			N/A
4/8/2019	AUDCHF	1:30:00 PM	0.7096	0.71032			N/A
4/8/2019	AUDCHF	3:30:00 PM	0.71025	0.71087			N/A
4/8/2019	AUDCHF.fx	9:30:00 AM	0.70887	0.70884			N/A
4/8/2019	AUDCHF.fx	11:30:00 AM	0.70996	0.70992			N/A
4/8/2019	AUDCHF.fx	1:30:00 PM	0.70994	0.70997			N/A
4/8/2019	AUDCHF.fx	3:30:00 PM	0.71059	0.71053			N/A
4/8/2019	AUDCZK	9:30:00 AM	16.186	16.2			N/A
4/8/2019	AUDCZK	11:30:00 AM	16.192	16.208			N/A

4/8/2019	AUDCZK	1:30:00 PM	16.178	16.194			N/A
4/8/2019	AUDCZK	3:30:00 PM	16.173	16.191			N/A
4/8/2019	AUDDKK	9:30:00 AM	4.7156	4.7198			N/A
4/8/2019	AUDDKK	11:30:00 AM	4.719	4.7233			N/A
4/8/2019	AUDDKK	1:30:00 PM	4.7138	4.7186			N/A
4/8/2019	AUDDKK	3:30:00 PM	4.7153	4.7197			N/A
4/8/2019	AUDHKD	9:30:00 AM	5.5654	5.5693			N/A
4/8/2019	AUDHKD	11:30:00 AM	5.5734	5.5767			N/A
4/8/2019	AUDHKD	1:30:00 PM	5.5689	5.5726			N/A
4/8/2019	AUDHKD	3:30:00 PM	5.5727	5.5759			N/A
4/8/2019	AUDHUF	9:30:00 AM	202.75	202.98			N/A
4/8/2019	AUDHUF	11:30:00 AM	203.23	203.44			N/A
4/8/2019	AUDHUF	1:30:00 PM	202.94	203.14			N/A
4/8/2019	AUDHUF	3:30:00 PM	203	203.24			N/A
4/8/2019	AUDJPY	9:30:00 AM	79.026	79.087			N/A
4/8/2019	AUDJPY	11:30:00 AM	79.168	79.225			N/A
4/8/2019	AUDJPY	1:30:00 PM	79.116	79.185			N/A
4/8/2019	AUDJPY	3:30:00 PM	79.162	79.222			N/A
4/8/2019	AUDJPY.fx	9:30:00 AM	79.059	79.052			N/A
4/8/2019	AUDJPY.fx	11:30:00 AM	79.201	79.19			N/A
4/8/2019	AUDJPY.fx	1:30:00 PM	79.15	79.15			N/A
4/8/2019	AUDJPY.fx	3:30:00 PM	79.196	79.187			N/A
4/8/2019	AUDMXN	9:30:00 AM	13.5424	13.5516			N/A
4/8/2019	AUDMXN	11:30:00 AM	13.5593	13.5663			N/A
4/8/2019	AUDMXN	1:30:00 PM	13.5463	13.5567			N/A
4/8/2019	AUDMXN	3:30:00 PM	13.5312	13.5395			N/A
4/8/2019	AUDNOK	9:30:00 AM	6.1028	6.1073			N/A
4/8/2019	AUDNOK	11:30:00 AM	6.0923	6.0965			N/A
4/8/2019	AUDNOK	1:30:00 PM	6.0893	6.0947			N/A
4/8/2019	AUDNOK	3:30:00 PM	6.0814	6.0856			N/A
4/8/2019	AUDNOK.fx	9:30:00 AM	6.1041	6.1059			N/A
4/8/2019	AUDNOK.fx	11:30:00 AM	6.0936	6.0949			N/A
4/8/2019	AUDNOK.fx	1:30:00 PM	6.0908	6.0931			N/A
4/8/2019	AUDNOK.fx	3:30:00 PM	6.083	6.084			N/A

4/8/2019	AUDNZD	9:30:00 AM	1.05366	1.05448			N/A
4/8/2019	AUDNZD	11:30:00 AM	1.05443	1.05526			N/A
4/8/2019	AUDNZD	1:30:00 PM	1.05392	1.05486			N/A
4/8/2019	AUDNZD	3:30:00 PM	1.05496	1.05569			N/A
4/8/2019	AUDNZD.fx	9:30:00 AM	1.05408	1.05404			N/A
4/8/2019	AUDNZD.fx	11:30:00 AM	1.05485	1.05484			N/A
4/8/2019	AUDNZD.fx	1:30:00 PM	1.05434	1.05442			N/A
4/8/2019	AUDNZD.fx	3:30:00 PM	1.05539	1.05525			N/A
4/8/2019	AUDPLN	9:30:00 AM	2.7112	2.7137			N/A
4/8/2019	AUDPLN	11:30:00 AM	2.7122	2.715			N/A
4/8/2019	AUDPLN	1:30:00 PM	2.7073	2.7102			N/A
4/8/2019	AUDPLN	3:30:00 PM	2.7083	2.7114			N/A
4/8/2019	AUDSEK	9:30:00 AM	6.5955	6.5968			N/A
4/8/2019	AUDSEK	11:30:00 AM	6.594	6.5962			N/A
4/8/2019	AUDSEK	1:30:00 PM	6.5953	6.5985			N/A
4/8/2019	AUDSEK	3:30:00 PM	6.5877	6.5907			N/A
4/8/2019	AUDSEK.fx	9:30:00 AM	6.5907	6.6015			N/A
4/8/2019	AUDSEK.fx	11:30:00 AM	6.5895	6.6006			N/A
4/8/2019	AUDSEK.fx	1:30:00 PM	6.5905	6.6029			N/A
4/8/2019	AUDSEK.fx	3:30:00 PM	6.583	6.595			N/A
4/8/2019	AUDSGD	9:30:00 AM	0.9621	0.9624			N/A
4/8/2019	AUDSGD	11:30:00 AM	0.9634	0.9635			N/A
4/8/2019	AUDSGD	1:30:00 PM	0.9626	0.9629			N/A
4/8/2019	AUDSGD	3:30:00 PM	0.9629	0.9631			N/A
4/8/2019	AUDSGD.fx	9:30:00 AM	0.96224	0.96227			N/A
4/8/2019	AUDSGD.fx	11:30:00 AM	0.96349	0.96344			N/A
4/8/2019	AUDSGD.fx	1:30:00 PM	0.96267	0.96285			N/A
4/8/2019	AUDSGD.fx	3:30:00 PM	0.96298	0.96297			N/A
4/8/2019	AUDUSD	9:30:00 AM	0.70947	0.70947			N/A
4/8/2019	AUDUSD	11:30:00 AM	0.71046	0.71045			N/A
4/8/2019	AUDUSD	1:30:00 PM	0.71001	0.71018			N/A
4/8/2019	AUDUSD	3:30:00 PM	0.71049	0.71055			N/A
4/8/2019	AUDUSD.fx	9:30:00 AM	0.70952	0.70941			N/A
4/8/2019	AUDUSD.fx	11:30:00 AM	0.71051	0.7104			N/A

4/8/2019	AUDUSD.fx	1:30:00 PM	0.71006	0.71012			N/A
4/8/2019	AUDUSD.fx	3:30:00 PM	0.71054	0.71049			N/A
4/8/2019	AUDZAR	9:30:00 AM	10.0238	10.0375			N/A
4/8/2019	AUDZAR	11:30:00 AM	10.0321	10.0404			N/A
4/8/2019	AUDZAR	1:30:00 PM	10.0258	10.0378			N/A
4/8/2019	AUDZAR	3:30:00 PM	10.0041	10.0186			N/A
4/8/2019	AUS200.i	9:30:00 AM					N/A
4/8/2019	AUS200.i	11:30:00 AM	6216.97	6220.67			N/A
4/8/2019	AUS200.i	1:30:00 PM	6223.27	6226.47			N/A
4/8/2019	AUS200.i	3:30:00 PM	6226.97	6230.47			N/A
4/8/2019	BCHUSD	9:30:00 AM	308.12	320.12			N/A
4/8/2019	BCHUSD	11:30:00 AM	309.63	321.15			N/A
4/8/2019	BCHUSD	1:30:00 PM	306.1	317.17			N/A
4/8/2019	BCHUSD	3:30:00 PM	302.33	313.48			N/A
4/8/2019	CADCHF	9:30:00 AM	0.74611	0.74679			N/A
4/8/2019	CADCHF	11:30:00 AM	0.74656	0.74723			N/A
4/8/2019	CADCHF	1:30:00 PM	0.74711	0.74782			N/A
4/8/2019	CADCHF	3:30:00 PM	0.74769	0.7483			N/A
4/8/2019	CADCHF.fx	9:30:00 AM	0.74645	0.74644			N/A
4/8/2019	CADCHF.fx	11:30:00 AM	0.74689	0.7469			N/A
4/8/2019	CADCHF.fx	1:30:00 PM	0.74745	0.74747			N/A
4/8/2019	CADCHF.fx	3:30:00 PM	0.74803	0.74796			N/A
4/8/2019	CADCZK	9:30:00 AM	17.047	17.064			N/A
4/8/2019	CADCZK	11:30:00 AM	17.038	17.054			N/A
4/8/2019	CADCZK	1:30:00 PM	17.036	17.052			N/A
4/8/2019	CADCZK	3:30:00 PM	17.029	17.044			N/A
4/8/2019	CADDDKK	9:30:00 AM					N/A
4/8/2019	CADDDKK	11:30:00 AM	4.966	4.97			N/A
4/8/2019	CADDDKK	1:30:00 PM					N/A
4/8/2019	CADDDKK	3:30:00 PM					N/A
4/8/2019	CADHKD	9:30:00 AM	5.8626	5.8663			N/A
4/8/2019	CADHKD	11:30:00 AM	5.8645	5.8685			N/A
4/8/2019	CADHKD	1:30:00 PM	5.8641	5.8679			N/A
4/8/2019	CADHKD	3:30:00 PM	5.8669	5.8702			N/A

4/8/2019	CADHUF	9:30:00 AM	213.57	213.74			N/A
4/8/2019	CADHUF	11:30:00 AM	213.88	214.03			N/A
4/8/2019	CADHUF	1:30:00 PM	213.73	213.86			N/A
4/8/2019	CADHUF	3:30:00 PM	213.78	213.93			N/A
4/8/2019	CADJPY	9:30:00 AM	83.219	83.287			N/A
4/8/2019	CADJPY	11:30:00 AM	83.289	83.35			N/A
4/8/2019	CADJPY	1:30:00 PM	83.297	83.366			N/A
4/8/2019	CADJPY	3:30:00 PM	83.336	83.393			N/A
4/8/2019	CADJPY.fx	9:30:00 AM	83.25	83.253			N/A
4/8/2019	CADJPY.fx	11:30:00 AM	83.322	83.316			N/A
4/8/2019	CADJPY.fx	1:30:00 PM	83.33	83.331			N/A
4/8/2019	CADJPY.fx	3:30:00 PM	83.369	83.359			N/A
4/8/2019	CADMXN	9:30:00 AM	14.2618	14.2733			N/A
4/8/2019	CADMXN	11:30:00 AM	14.2671	14.2758			N/A
4/8/2019	CADMXN	1:30:00 PM	14.2636	14.2761			N/A
4/8/2019	CADMXN	3:30:00 PM	14.2445	14.2547			N/A
4/8/2019	CADNOK	9:30:00 AM	6.4265	6.4298			N/A
4/8/2019	CADNOK	11:30:00 AM	6.4093	6.4132			N/A
4/8/2019	CADNOK	1:30:00 PM	6.4107	6.4154			N/A
4/8/2019	CADNOK	3:30:00 PM	6.4012	6.4058			N/A
4/8/2019	CADPLN	9:30:00 AM	2.855	2.8569			N/A
4/8/2019	CADPLN	11:30:00 AM	2.8539	2.8558			N/A
4/8/2019	CADPLN	1:30:00 PM	2.8508	2.8523			N/A
4/8/2019	CADPLN	3:30:00 PM	2.8516	2.8535			N/A
4/8/2019	CADSEK	9:30:00 AM	6.9436	6.9469			N/A
4/8/2019	CADSEK	11:30:00 AM	6.9365	6.9383			N/A
4/8/2019	CADSEK	1:30:00 PM	6.9425	6.9461			N/A
4/8/2019	CADSEK	3:30:00 PM	6.9337	6.9369			N/A
4/8/2019	CADSGD	9:30:00 AM	1.0128	1.0131			N/A
4/8/2019	CADSGD	11:30:00 AM	1.013	1.0133			N/A
4/8/2019	CADSGD	1:30:00 PM	1.0129	1.0132			N/A
4/8/2019	CADSGD	3:30:00 PM	1.013	1.0133			N/A
4/8/2019	CADZAR	9:30:00 AM	10.5566	10.5718			N/A
4/8/2019	CADZAR	11:30:00 AM	10.5554	10.5649			N/A

4/8/2019	CADZAR	1:30:00 PM	10.5567	10.5703			N/A
4/8/2019	CADZAR	3:30:00 PM	10.532	10.5472			N/A
4/8/2019	CHFCZK	9:30:00 AM	22.841	22.856			N/A
4/8/2019	CHFCZK	11:30:00 AM	22.815	22.832			N/A
4/8/2019	CHFCZK	1:30:00 PM	22.795	22.811			N/A
4/8/2019	CHFCZK	3:30:00 PM	22.77	22.787			N/A
4/8/2019	CHFDKK	9:30:00 AM	6.654	6.657			N/A
4/8/2019	CHFDKK	11:30:00 AM	6.649	6.652			N/A
4/8/2019	CHFDKK	1:30:00 PM	6.641	6.644			N/A
4/8/2019	CHFDKK	3:30:00 PM					N/A
4/8/2019	CHFDKK.fx	9:30:00 AM	6.652	6.6584			N/A
4/8/2019	CHFDKK.fx	11:30:00 AM	6.6471	6.6532			N/A
4/8/2019	CHFDKK.fx	1:30:00 PM	6.6395	6.6458			N/A
4/8/2019	CHFDKK.fx	3:30:00 PM	6.6358	6.6418			N/A
4/8/2019	CHFHKD	9:30:00 AM	7.8541	7.858			N/A
4/8/2019	CHFHKD	11:30:00 AM	7.8527	7.8559			N/A
4/8/2019	CHFHKD	1:30:00 PM	7.8466	7.8498			N/A
4/8/2019	CHFHKD	3:30:00 PM	7.8443	7.8482			N/A
4/8/2019	CHFHUF	9:30:00 AM	286.04	286.44			N/A
4/8/2019	CHFHUF	11:30:00 AM	286.28	286.66			N/A
4/8/2019	CHFHUF	1:30:00 PM	285.88	286.21			N/A
4/8/2019	CHFHUF	3:30:00 PM	285.72	286.12			N/A
4/8/2019	CHFJPY	9:30:00 AM	111.496	111.563			N/A
4/8/2019	CHFJPY	11:30:00 AM	111.523	111.586			N/A
4/8/2019	CHFJPY	1:30:00 PM	111.457	111.522			N/A
4/8/2019	CHFJPY	3:30:00 PM	111.417	111.487			N/A
4/8/2019	CHFJPY.fx	9:30:00 AM	111.528	111.529			N/A
4/8/2019	CHFJPY.fx	11:30:00 AM	111.556	111.551			N/A
4/8/2019	CHFJPY.fx	1:30:00 PM	111.491	111.488			N/A
4/8/2019	CHFJPY.fx	3:30:00 PM	111.449	111.453			N/A
4/8/2019	CHFMXN	9:30:00 AM	19.106	19.1225			N/A
4/8/2019	CHFMXN	11:30:00 AM	19.1026	19.1134			N/A
4/8/2019	CHFMXN	1:30:00 PM	19.0837	19.0996			N/A
4/8/2019	CHFMXN	3:30:00 PM	19.0446	19.0599			N/A

4/8/2019	CHFNOK	9:30:00 AM	8.609	8.6152			N/A
4/8/2019	CHFNOK	11:30:00 AM	8.5817	8.5872			N/A
4/8/2019	CHFNOK	1:30:00 PM	8.5767	8.5847			N/A
4/8/2019	CHFNOK	3:30:00 PM	8.5578	8.5657			N/A
4/8/2019	CHFNOK.fx	9:30:00 AM	8.61216	8.61216			N/A
4/8/2019	CHFNOK.fx	11:30:00 AM	8.585	8.58383			N/A
4/8/2019	CHFNOK.fx	1:30:00 PM	8.58005	8.58136			N/A
4/8/2019	CHFNOK.fx	3:30:00 PM	8.56114	8.56232			N/A
4/8/2019	CHFPLN	9:30:00 AM	3.8251	3.8278			N/A
4/8/2019	CHFPLN	11:30:00 AM	3.821	3.8237			N/A
4/8/2019	CHFPLN	1:30:00 PM	3.8139	3.8166			N/A
4/8/2019	CHFPLN	3:30:00 PM	3.8121	3.8152			N/A
4/8/2019	CHFPLN.fx	9:30:00 AM	3.82261	3.83035			N/A
4/8/2019	CHFPLN.fx	11:30:00 AM	3.81856	3.82598			N/A
4/8/2019	CHFPLN.fx	1:30:00 PM	3.8115	3.81898			N/A
4/8/2019	CHFPLN.fx	3:30:00 PM	3.8097	3.81755			N/A
4/8/2019	CHFSEK	9:30:00 AM	9.3032	9.3058			N/A
4/8/2019	CHFSEK	11:30:00 AM	9.2878	9.2899			N/A
4/8/2019	CHFSEK	1:30:00 PM	9.2888	9.2929			N/A
4/8/2019	CHFSEK	3:30:00 PM	9.2698	9.2747			N/A
4/8/2019	CHFSGD	9:30:00 AM	1.3573	1.3577			N/A
4/8/2019	CHFSGD	11:30:00 AM	1.3569	1.3573			N/A
4/8/2019	CHFSGD	1:30:00 PM	1.3559	1.3564			N/A
4/8/2019	CHFSGD	3:30:00 PM	1.355	1.3555			N/A
4/8/2019	CHFSGD.fx	9:30:00 AM	1.35746	1.35753			N/A
4/8/2019	CHFSGD.fx	11:30:00 AM	1.35708	1.35712			N/A
4/8/2019	CHFSGD.fx	1:30:00 PM	1.35602	1.35618			N/A
4/8/2019	CHFSGD.fx	3:30:00 PM	1.35514	1.3553			N/A
4/8/2019	CHFZAR	9:30:00 AM	14.148	14.1594			N/A
4/8/2019	CHFZAR	11:30:00 AM	14.1375	14.1406			N/A
4/8/2019	CHFZAR	1:30:00 PM	14.1274	14.1378			N/A
4/8/2019	CHFZAR	3:30:00 PM	14.0862	14.098			N/A
4/8/2019	CZKJPY	9:30:00 AM					N/A
4/8/2019	CZKJPY	11:30:00 AM	4.887	4.891			N/A

4/8/2019	CZKJPY	1:30:00 PM	4.889	4.892			N/A
4/8/2019	CZKJPY	3:30:00 PM					N/A
4/8/2019	DAX30.i	9:30:00 AM	11961	11960.25			N/A
4/8/2019	DAX30.i	11:30:00 AM	11978.77	11978.02			N/A
4/8/2019	DAX30.i	1:30:00 PM	11985.77	11983.52			N/A
4/8/2019	DAX30.i	3:30:00 PM	11994.77	11993.52			N/A
4/8/2019	DJ30.i	9:30:00 AM					N/A
4/8/2019	DJ30.i	11:30:00 AM					N/A
4/8/2019	DJ30.i	1:30:00 PM					N/A
4/8/2019	DJ30.i	3:30:00 PM					N/A
4/8/2019	DKKJPY	9:30:00 AM					N/A
4/8/2019	DKKJPY	11:30:00 AM	16.78	16.8			N/A
4/8/2019	DKKJPY	1:30:00 PM	16.79	16.8			N/A
4/8/2019	DKKJPY	3:30:00 PM					N/A
4/8/2019	EURAUD	9:30:00 AM	1.58166	1.58191			N/A
4/8/2019	EURAUD	11:30:00 AM	1.58049	1.58081			N/A
4/8/2019	EURAUD	1:30:00 PM	1.58205	1.58252			N/A
4/8/2019	EURAUD	3:30:00 PM	1.58173	1.58201			N/A
4/8/2019	EURAUD.fx	9:30:00 AM	1.58186	1.58169			N/A
4/8/2019	EURAUD.fx	11:30:00 AM	1.58067	1.58059			N/A
4/8/2019	EURAUD.fx	1:30:00 PM	1.58225	1.58231			N/A
4/8/2019	EURAUD.fx	3:30:00 PM	1.58193	1.5818			N/A
4/8/2019	EURCAD	9:30:00 AM	1.50232	1.5031			N/A
4/8/2019	EURCAD	11:30:00 AM	1.5026	1.50338			N/A
4/8/2019	EURCAD	1:30:00 PM	1.50303	1.5039			N/A
4/8/2019	EURCAD	3:30:00 PM	1.50299	1.50361			N/A
4/8/2019	EURCAD.fx	9:30:00 AM	1.50272	1.50268			N/A
4/8/2019	EURCAD.fx	11:30:00 AM	1.503	1.50296			N/A
4/8/2019	EURCAD.fx	1:30:00 PM	1.50345	1.50348			N/A
4/8/2019	EURCAD.fx	3:30:00 PM	1.50339	1.50319			N/A
4/8/2019	EURCHF	9:30:00 AM	1.12163	1.12176			N/A
4/8/2019	EURCHF	11:30:00 AM	1.12249	1.12264			N/A
4/8/2019	EURCHF	1:30:00 PM	1.12371	1.12384			N/A
4/8/2019	EURCHF	3:30:00 PM	1.12439	1.12447			N/A

4/8/2019	EURCHF.fx	9:30:00 AM	1.12167	1.12171			N/A
4/8/2019	EURCHF.fx	11:30:00 AM	1.12255	1.12258			N/A
4/8/2019	EURCHF.fx	1:30:00 PM	1.12377	1.12379			N/A
4/8/2019	EURCHF.fx	3:30:00 PM	1.12444	1.12441			N/A
4/8/2019	EURCZK	9:30:00 AM	25.607	25.644			N/A
4/8/2019	EURCZK	11:30:00 AM	25.599	25.638			N/A
4/8/2019	EURCZK	1:30:00 PM	25.605	25.642			N/A
4/8/2019	EURCZK	3:30:00 PM	25.59	25.63			N/A
4/8/2019	EURDKK	9:30:00 AM	7.4647	7.4656			N/A
4/8/2019	EURDKK	11:30:00 AM	7.4647	7.4658			N/A
4/8/2019	EURDKK	1:30:00 PM	7.4644	7.4654			N/A
4/8/2019	EURDKK	3:30:00 PM	7.4644	7.4655			N/A
4/8/2019	EURGBP	9:30:00 AM	0.8599	0.85988			N/A
4/8/2019	EURGBP	11:30:00 AM	0.85998	0.85993			N/A
4/8/2019	EURGBP	1:30:00 PM	0.86165	0.86154			N/A
4/8/2019	EURGBP	3:30:00 PM	0.86199	0.86211			N/A
4/8/2019	EURGBP.fx	9:30:00 AM	0.85992	0.85984			N/A
4/8/2019	EURGBP.fx	11:30:00 AM	0.86	0.8599			N/A
4/8/2019	EURGBP.fx	1:30:00 PM	0.86169	0.8615			N/A
4/8/2019	EURGBP.fx	3:30:00 PM	0.86201	0.86206			N/A
4/8/2019	EURHKD	9:30:00 AM	8.8099	8.8151			N/A
4/8/2019	EURHKD	11:30:00 AM	8.8155	8.82			N/A
4/8/2019	EURHKD	1:30:00 PM	8.8174	8.8228			N/A
4/8/2019	EURHKD	3:30:00 PM	8.82	8.8252			N/A
4/8/2019	EURHKD.fx	9:30:00 AM	8.81242	8.81251			N/A
4/8/2019	EURHKD.fx	11:30:00 AM	8.81806	8.81741			N/A
4/8/2019	EURHKD.fx	1:30:00 PM	8.81993	8.82023			N/A
4/8/2019	EURHKD.fx	3:30:00 PM	8.82253	8.82267			N/A
4/8/2019	EURHUF	9:30:00 AM	320.79	321.41			N/A
4/8/2019	EURHUF	11:30:00 AM	321.33	321.98			N/A
4/8/2019	EURHUF	1:30:00 PM	321.18	321.84			N/A
4/8/2019	EURHUF	3:30:00 PM	321.22	321.92			N/A
4/8/2019	EURHUF.fx	9:30:00 AM	321.064	321.264			N/A
4/8/2019	EURHUF.fx	11:30:00 AM	321.607	321.773			N/A

4/8/2019	EURHUF.fx	1:30:00 PM	321.458	321.567			N/A
4/8/2019	EURHUF.fx	3:30:00 PM	321.501	321.68			N/A
4/8/2019	EURJPY	9:30:00 AM	125.101	125.103			N/A
4/8/2019	EURJPY	11:30:00 AM	125.23	125.227		10	N/A
4/8/2019	EURJPY	1:30:00 PM	125.287	125.287			N/A
4/8/2019	EURJPY	3:30:00 PM	125.319	125.322			N/A
4/8/2019	EURJPY.fx	9:30:00 AM	125.104	125.099			N/A
4/8/2019	EURJPY.fx	11:30:00 AM	125.233	125.224			N/A
4/8/2019	EURJPY.fx	1:30:00 PM	125.29	125.284			N/A
4/8/2019	EURJPY.fx	3:30:00 PM	125.321	125.318			N/A
4/8/2019	EURMXN	9:30:00 AM	21.4335	21.4521			N/A
4/8/2019	EURMXN	11:30:00 AM	21.4457	21.4593			N/A
4/8/2019	EURMXN	1:30:00 PM	21.4474	21.4677			N/A
4/8/2019	EURMXN	3:30:00 PM	21.4167	21.4342			N/A
4/8/2019	EURMXN.fx	9:30:00 AM	21.442	21.4439			N/A
4/8/2019	EURMXN.fx	11:30:00 AM	21.4537	21.4513			N/A
4/8/2019	EURMXN.fx	1:30:00 PM	21.4555	21.4596			N/A
4/8/2019	EURMXN.fx	3:30:00 PM	21.4252	21.4257			N/A
4/8/2019	EURNOK	9:30:00 AM	9.6551	9.665			N/A
4/8/2019	EURNOK	11:30:00 AM	9.6319	9.6412			N/A
4/8/2019	EURNOK	1:30:00 PM	9.6369	9.649			N/A
4/8/2019	EURNOK	3:30:00 PM	9.6211	9.6329			N/A
4/8/2019	EURNOK.fx	9:30:00 AM	9.66045	9.65965			N/A
4/8/2019	EURNOK.fx	11:30:00 AM	9.63729	9.63565			N/A
4/8/2019	EURNOK.fx	1:30:00 PM	9.64214	9.6436			N/A
4/8/2019	EURNOK.fx	3:30:00 PM	9.62669	9.62738			N/A
4/8/2019	EURNZD	9:30:00 AM	1.66753	1.66832			N/A
4/8/2019	EURNZD	11:30:00 AM	1.66754	1.66838			N/A
4/8/2019	EURNZD	1:30:00 PM	1.66852	1.66942			N/A
4/8/2019	EURNZD	3:30:00 PM	1.66984	1.67026			N/A
4/8/2019	EURNZD.fx	9:30:00 AM	1.66796	1.66792			N/A
4/8/2019	EURNZD.fx	11:30:00 AM	1.66795	1.66796			N/A
4/8/2019	EURNZD.fx	1:30:00 PM	1.66893	1.669			N/A
4/8/2019	EURNZD.fx	3:30:00 PM	1.67024	1.66983			N/A

4/8/2019	EURPLN	9:30:00 AM	4.2907	4.2934			N/A
4/8/2019	EURPLN	11:30:00 AM	4.2893	4.2923			N/A
4/8/2019	EURPLN	1:30:00 PM	4.2858	4.2887			N/A
4/8/2019	EURPLN	3:30:00 PM	4.2866	4.2899			N/A
4/8/2019	EURPLN.fx	9:30:00 AM	4.28967	4.29446			N/A
4/8/2019	EURPLN.fx	11:30:00 AM	4.28868	4.29302			N/A
4/8/2019	EURPLN.fx	1:30:00 PM	4.28511	4.28989			N/A
4/8/2019	EURPLN.fx	3:30:00 PM	4.28587	4.29052			N/A
4/8/2019	EURRUB	9:30:00 AM					N/A
4/8/2019	EURRUB	11:30:00 AM	73.096	73.529			N/A
4/8/2019	EURRUB	1:30:00 PM	73.058	73.469			N/A
4/8/2019	EURRUB	3:30:00 PM	72.946	73.385			N/A
4/8/2019	EURSEK	9:30:00 AM	10.4365	10.4392			N/A
4/8/2019	EURSEK	11:30:00 AM	10.4275	10.4288			N/A
4/8/2019	EURSEK	1:30:00 PM	10.4397	10.4444			N/A
4/8/2019	EURSEK	3:30:00 PM	10.4247	10.4293			N/A
4/8/2019	EURSEK.fx	9:30:00 AM	10.43792	10.43786			N/A
4/8/2019	EURSEK.fx	11:30:00 AM	10.42926	10.42727			N/A
4/8/2019	EURSEK.fx	1:30:00 PM	10.44138	10.44277			N/A
4/8/2019	EURSEK.fx	3:30:00 PM	10.4267	10.42754			N/A
4/8/2019	EURSGD	9:30:00 AM	1.5223	1.523			N/A
4/8/2019	EURSGD	11:30:00 AM	1.5231	1.5238			N/A
4/8/2019	EURSGD	1:30:00 PM	1.5236	1.5244			N/A
4/8/2019	EURSGD	3:30:00 PM	1.5235	1.5243			N/A
4/8/2019	EURSGD.fx	9:30:00 AM	1.52268	1.52263			N/A
4/8/2019	EURSGD.fx	11:30:00 AM	1.52346	1.52339			N/A
4/8/2019	EURSGD.fx	1:30:00 PM	1.5239	1.52402			N/A
4/8/2019	EURSGD.fx	3:30:00 PM	1.52383	1.52391			N/A
4/8/2019	EURUSD	9:30:00 AM	1.12247	1.12256			N/A
4/8/2019	EURUSD	11:30:00 AM	1.12323	1.12326	10	10	N/A
4/8/2019	EURUSD	1:30:00 PM	1.12378	1.1239			N/A
4/8/2019	EURUSD	3:30:00 PM	1.12415	1.12426			N/A
4/8/2019	EURUSD.fx	9:30:00 AM	1.12266	1.12266			N/A
4/8/2019	EURUSD.fx	11:30:00 AM	1.12343	1.12334			N/A

4/8/2019	EURUSD.fx	1:30:00 PM	1.12398	1.12399			N/A
4/8/2019	EURUSD.fx	3:30:00 PM	1.12436	1.12436			N/A
4/8/2019	EURZAR	9:30:00 AM	15.8724	15.8865			N/A
4/8/2019	EURZAR	11:30:00 AM	15.8743	15.88			N/A
4/8/2019	EURZAR	1:30:00 PM	15.8801	15.8938			N/A
4/8/2019	EURZAR	3:30:00 PM	15.8413	15.8582			N/A
4/8/2019	EURZAR.fx	9:30:00 AM					N/A
4/8/2019	EURZAR.fx	11:30:00 AM	15.87328	15.88098			N/A
4/8/2019	EURZAR.fx	1:30:00 PM	15.87958	15.89491			N/A
4/8/2019	EURZAR.fx	3:30:00 PM	15.84081	15.85875			N/A
4/8/2019	GBPAUD	9:30:00 AM	1.83993	1.84036			N/A
4/8/2019	GBPAUD	11:30:00 AM	1.83861	1.83883			N/A
4/8/2019	GBPAUD	1:30:00 PM	1.83699	1.83734			N/A
4/8/2019	GBPAUD	3:30:00 PM	1.83538	1.83607			N/A
4/8/2019	GBPAUD.fx	9:30:00 AM	1.84031	1.83995			N/A
4/8/2019	GBPAUD.fx	11:30:00 AM	1.83898	1.83846			N/A
4/8/2019	GBPAUD.fx	1:30:00 PM	1.83735	1.83695			N/A
4/8/2019	GBPAUD.fx	3:30:00 PM	1.83578	1.83569			N/A
4/8/2019	GBPCAD	9:30:00 AM	1.74726	1.74775			N/A
4/8/2019	GBPCAD	11:30:00 AM	1.74757	1.74793			N/A
4/8/2019	GBPCAD	1:30:00 PM	1.74482	1.74518			N/A
4/8/2019	GBPCAD	3:30:00 PM	1.74362	1.74426			N/A
4/8/2019	GBPCAD.fx	9:30:00 AM	1.74762	1.74738			N/A
4/8/2019	GBPCAD.fx	11:30:00 AM	1.74791	1.74755			N/A
4/8/2019	GBPCAD.fx	1:30:00 PM	1.74522	1.74479			N/A
4/8/2019	GBPCAD.fx	3:30:00 PM	1.744	1.7439			N/A
4/8/2019	GBPCHF	9:30:00 AM	1.30431	1.30461			N/A
4/8/2019	GBPCHF	11:30:00 AM	1.30528	1.30554			N/A
4/8/2019	GBPCHF	1:30:00 PM	1.30423	1.30434			N/A
4/8/2019	GBPCHF	3:30:00 PM	1.3042	1.3046			N/A
4/8/2019	GBPCHF.fx	9:30:00 AM	1.30448	1.30441			N/A
4/8/2019	GBPCHF.fx	11:30:00 AM	1.30545	1.30536			N/A
4/8/2019	GBPCHF.fx	1:30:00 PM	1.30441	1.30414			N/A
4/8/2019	GBPCHF.fx	3:30:00 PM	1.30437	1.3044			N/A

4/8/2019	GBPCZK	9:30:00 AM	29.792	29.807			N/A
4/8/2019	GBPCZK	11:30:00 AM	29.781	29.798			N/A
4/8/2019	GBPCZK	1:30:00 PM	29.732	29.746			N/A
4/8/2019	GBPCZK	3:30:00 PM	29.695	29.72			N/A
4/8/2019	GBPDKK	9:30:00 AM	8.677	8.687			N/A
4/8/2019	GBPDKK	11:30:00 AM	8.676	8.687			N/A
4/8/2019	GBPDKK	1:30:00 PM	8.66	8.669			N/A
4/8/2019	GBPDKK	3:30:00 PM	8.655	8.666			N/A
4/8/2019	GBPDKK.fx	9:30:00 AM	8.6755	8.6873			N/A
4/8/2019	GBPDKK.fx	11:30:00 AM	8.6752	8.6871			N/A
4/8/2019	GBPDKK.fx	1:30:00 PM	8.6584	8.6696			N/A
4/8/2019	GBPDKK.fx	3:30:00 PM	8.6531	8.6663			N/A
4/8/2019	GBPHKD	9:30:00 AM	10.2439	10.2484			N/A
4/8/2019	GBPHKD	11:30:00 AM	10.2493	10.2544			N/A
4/8/2019	GBPHKD	1:30:00 PM	10.2337	10.2365			N/A
4/8/2019	GBPHKD	3:30:00 PM	10.2298	10.2354			N/A
4/8/2019	GBPHUF	9:30:00 AM	373.12	373.55			N/A
4/8/2019	GBPHUF	11:30:00 AM	373.69	374.11			N/A
4/8/2019	GBPHUF	1:30:00 PM	372.88	373.15			N/A
4/8/2019	GBPHUF	3:30:00 PM	372.64	373.13			N/A
4/8/2019	GBPJPY	9:30:00 AM	145.469	145.497			N/A
4/8/2019	GBPJPY	11:30:00 AM	145.609	145.63			N/A
4/8/2019	GBPJPY	1:30:00 PM	145.416	145.411			N/A
4/8/2019	GBPJPY	3:30:00 PM	145.361	145.391			N/A
4/8/2019	GBPJPY.fx	9:30:00 AM	145.487	145.478			N/A
4/8/2019	GBPJPY.fx	11:30:00 AM	145.627	145.612			N/A
4/8/2019	GBPJPY.fx	1:30:00 PM	145.434	145.393			N/A
4/8/2019	GBPJPY.fx	3:30:00 PM	145.379	145.372			N/A
4/8/2019	GBPMXN	9:30:00 AM	24.9233	24.9364			N/A
4/8/2019	GBPMXN	11:30:00 AM	24.9363	24.9413			N/A
4/8/2019	GBPMXN	1:30:00 PM	24.8933	24.9025			N/A
4/8/2019	GBPMXN	3:30:00 PM	24.8411	24.8542			N/A
4/8/2019	GBPNOK	9:30:00 AM	11.2304	11.2381			N/A
4/8/2019	GBPNOK	11:30:00 AM	11.2031	11.2089			N/A

4/8/2019	GBPNOK	1:30:00 PM	11.1879	11.1963			N/A
4/8/2019	GBPNOK	3:30:00 PM	11.1621	11.1734			N/A
4/8/2019	GBPNOK.fx	9:30:00 AM	11.23522	11.2334			N/A
4/8/2019	GBPNOK.fx	11:30:00 AM	11.20798	11.20404			N/A
4/8/2019	GBPNOK.fx	1:30:00 PM	11.19283	11.19143			N/A
4/8/2019	GBPNOK.fx	3:30:00 PM	11.16706	11.16837			N/A
4/8/2019	GBPNZD	9:30:00 AM	1.93945	1.93999			N/A
4/8/2019	GBPNZD	11:30:00 AM	1.93939	1.93979			N/A
4/8/2019	GBPNZD	1:30:00 PM	1.93694	1.93726			N/A
4/8/2019	GBPNZD	3:30:00 PM	1.93707	1.9375			N/A
4/8/2019	GBPNZD.fx	9:30:00 AM	1.93981	1.93966			N/A
4/8/2019	GBPNZD.fx	11:30:00 AM	1.9397	1.93942			N/A
4/8/2019	GBPNZD.fx	1:30:00 PM	1.93727	1.93691			N/A
4/8/2019	GBPNZD.fx	3:30:00 PM	1.93741	1.93715			N/A
4/8/2019	GBPPLN	9:30:00 AM	4.9912	4.992			N/A
4/8/2019	GBPPLN	11:30:00 AM	4.9893	4.99			N/A
4/8/2019	GBPPLN	1:30:00 PM	4.9763	4.9761			N/A
4/8/2019	GBPPLN	3:30:00 PM	4.9736	4.9756			N/A
4/8/2019	GBPPLN.fx	9:30:00 AM	4.98881	4.99453			N/A
4/8/2019	GBPPLN.fx	11:30:00 AM	4.98714	4.99224			N/A
4/8/2019	GBPPLN.fx	1:30:00 PM	4.97405	4.97832			N/A
4/8/2019	GBPPLN.fx	3:30:00 PM	4.97146	4.97772			N/A
4/8/2019	GBPSEK	9:30:00 AM	12.136	12.142			N/A
4/8/2019	GBPSEK	11:30:00 AM	12.1248	12.1283			N/A
4/8/2019	GBPSEK	1:30:00 PM	12.116	12.1232			N/A
4/8/2019	GBPSEK	3:30:00 PM	12.0908	12.1008			N/A
4/8/2019	GBPSEK.fx	9:30:00 AM	12.13198	12.14646			N/A
4/8/2019	GBPSEK.fx	11:30:00 AM	12.12112	12.13233			N/A
4/8/2019	GBPSEK.fx	1:30:00 PM	12.11227	12.1268			N/A
4/8/2019	GBPSEK.fx	3:30:00 PM	12.08713	12.10441			N/A
4/8/2019	GBPSGD	9:30:00 AM	1.7705	1.771			N/A
4/8/2019	GBPSGD	11:30:00 AM	1.7713	1.7719			N/A
4/8/2019	GBPSGD	1:30:00 PM	1.7686	1.769			N/A
4/8/2019	GBPSGD	3:30:00 PM	1.7674	1.7682			N/A

4/8/2019	GBPSGD.fx	9:30:00 AM	1.76869	1.77278			N/A
4/8/2019	GBPSGD.fx	11:30:00 AM	1.76944	1.77371			N/A
4/8/2019	GBPSGD.fx	1:30:00 PM	1.76676	1.77075			N/A
4/8/2019	GBPSGD.fx	3:30:00 PM	1.76555	1.76995			N/A
4/8/2019	GBPUSD	9:30:00 AM	1.30567	1.3055			N/A
4/8/2019	GBPUSD	11:30:00 AM	1.30637	1.30633			N/A
4/8/2019	GBPUSD	1:30:00 PM	1.3047	1.30442			N/A
4/8/2019	GBPUSD	3:30:00 PM	1.30431	1.30435			N/A
4/8/2019	GBPUSD.fx	9:30:00 AM	1.30571	1.30546			N/A
4/8/2019	GBPUSD.fx	11:30:00 AM	1.3064	1.30628			N/A
4/8/2019	GBPUSD.fx	1:30:00 PM	1.30474	1.30437			N/A
4/8/2019	GBPUSD.fx	3:30:00 PM	1.30435	1.3043			N/A
4/8/2019	GBPZAR	9:30:00 AM	18.4567	18.4772			N/A
4/8/2019	GBPZAR	11:30:00 AM	18.4582	18.4674			N/A
4/8/2019	GBPZAR	1:30:00 PM	18.4265	18.448			N/A
4/8/2019	GBPZAR	3:30:00 PM	18.3737	18.4004			N/A
4/8/2019	GBPZAR.fx	9:30:00 AM	18.4643	18.4709			N/A
4/8/2019	GBPZAR.fx	11:30:00 AM	18.4654	18.4607			N/A
4/8/2019	GBPZAR.fx	1:30:00 PM	18.4334	18.441			N/A
4/8/2019	GBPZAR.fx	3:30:00 PM	18.3808	18.3934			N/A
4/8/2019	GOLD	9:30:00 AM					N/A
4/8/2019	GOLD	11:30:00 AM	1297.02	1297.32			N/A
4/8/2019	GOLD	1:30:00 PM	1297.35	1297.62			N/A
4/8/2019	GOLD	3:30:00 PM	1299.5	1299.66			N/A
4/8/2019	HKDJPY	9:30:00 AM	14.2	14.21			N/A
4/8/2019	HKDJPY	11:30:00 AM					N/A
4/8/2019	HKDJPY	1:30:00 PM	14.21	14.21			N/A
4/8/2019	HKDJPY	3:30:00 PM	14.21	14.21			N/A
4/8/2019	HKDJPY.fx	9:30:00 AM	14.192	14.198			N/A
4/8/2019	HKDJPY.fx	11:30:00 AM	14.197	14.204			N/A
4/8/2019	HKDJPY.fx	1:30:00 PM	14.2	14.207			N/A
4/8/2019	HKDJPY.fx	3:30:00 PM	14.2	14.207			N/A
4/8/2019	HUFJPY	9:30:00 AM	0.3899	0.3902			N/A
4/8/2019	HUFJPY	11:30:00 AM	0.3894	0.3897			N/A

4/8/2019	HUFJPY	1:30:00 PM	0.3898	0.3901			N/A
4/8/2019	HUFJPY	3:30:00 PM	0.3899	0.3902			N/A
4/8/2019	JP225.i	9:30:00 AM	21766.5	21786.5			N/A
4/8/2019	JP225.i	11:30:00 AM	21767.45	21784.95			N/A
4/8/2019	JP225.i	1:30:00 PM	21769.12	21784.95			N/A
4/8/2019	JP225.i	3:30:00 PM	21769.95	21789.95			N/A
4/8/2019	MXNJPY	9:30:00 AM	5.83	5.84			N/A
4/8/2019	MXNJPY	11:30:00 AM	5.83	5.85			N/A
4/8/2019	MXNJPY	1:30:00 PM	5.84	5.85			N/A
4/8/2019	MXNJPY	3:30:00 PM	5.85	5.86			N/A
4/8/2019	NASDAQ.i	9:30:00 AM					N/A
4/8/2019	NASDAQ.i	11:30:00 AM					N/A
4/8/2019	NASDAQ.i	1:30:00 PM					N/A
4/8/2019	NASDAQ.i	3:30:00 PM					N/A
4/8/2019	NOKJPY	9:30:00 AM	12.94	12.97			N/A
4/8/2019	NOKJPY	11:30:00 AM	12.98	13.02			N/A
4/8/2019	NOKJPY	1:30:00 PM	12.98	13.01			N/A
4/8/2019	NOKJPY	3:30:00 PM	13.01	13.04			N/A
4/8/2019	NOKJPY.fx	9:30:00 AM	12.946	12.953			N/A
4/8/2019	NOKJPY.fx	11:30:00 AM	12.993	12.997			N/A
4/8/2019	NOKJPY.fx	1:30:00 PM	12.989	12.997			N/A
4/8/2019	NOKJPY.fx	3:30:00 PM	13.014	13.021			N/A
4/8/2019	NZDCAD	9:30:00 AM	0.90062	0.90121			N/A
4/8/2019	NZDCAD	11:30:00 AM	0.90078	0.90145			N/A
4/8/2019	NZDCAD	1:30:00 PM	0.90045	0.90121			N/A
4/8/2019	NZDCAD	3:30:00 PM	0.89999	0.90041			N/A
4/8/2019	NZDCAD.fx	9:30:00 AM	0.90094	0.90088			N/A
4/8/2019	NZDCAD.fx	11:30:00 AM	0.90109	0.90112			N/A
4/8/2019	NZDCAD.fx	1:30:00 PM	0.90077	0.90087			N/A
4/8/2019	NZDCAD.fx	3:30:00 PM	0.90031	0.90008			N/A
4/8/2019	NZDCHF	9:30:00 AM	0.67217	0.67285			N/A
4/8/2019	NZDCHF	11:30:00 AM	0.67266	0.67338			N/A
4/8/2019	NZDCHF	1:30:00 PM	0.67297	0.6737			N/A
4/8/2019	NZDCHF	3:30:00 PM	0.67302	0.67358			N/A

4/8/2019	NZDCHF.fx	9:30:00 AM	0.6725	0.6725			N/A
4/8/2019	NZDCHF.fx	11:30:00 AM	0.673	0.67303			N/A
4/8/2019	NZDCHF.fx	1:30:00 PM	0.67331	0.67335			N/A
4/8/2019	NZDCHF.fx	3:30:00 PM	0.67336	0.67323			N/A
4/8/2019	NZDCZK	9:30:00 AM	15.357	15.367			N/A
4/8/2019	NZDCZK	11:30:00 AM	15.352	15.364			N/A
4/8/2019	NZDCZK	1:30:00 PM	15.346	15.357			N/A
4/8/2019	NZDCZK	3:30:00 PM	15.328	15.339			N/A
4/8/2019	NZDDKK	9:30:00 AM	4.473	4.477			N/A
4/8/2019	NZDDKK	11:30:00 AM					N/A
4/8/2019	NZDDKK	1:30:00 PM	4.471	4.474			N/A
4/8/2019	NZDDKK	3:30:00 PM	4.469	4.472			N/A
4/8/2019	NZDHKD	9:30:00 AM	5.2801	5.2829			N/A
4/8/2019	NZDHKD	11:30:00 AM	5.2831	5.2861			N/A
4/8/2019	NZDHKD	1:30:00 PM	5.2817	5.2844			N/A
4/8/2019	NZDHKD	3:30:00 PM	5.2808	5.2826			N/A
4/8/2019	NZDHUF	9:30:00 AM	192.31	192.58			N/A
4/8/2019	NZDHUF	11:30:00 AM	192.6	192.9			N/A
4/8/2019	NZDHUF	1:30:00 PM	192.43	192.69			N/A
4/8/2019	NZDHUF	3:30:00 PM	192.33	192.6			N/A
4/8/2019	NZDJPY	9:30:00 AM	74.967	75.034			N/A
4/8/2019	NZDJPY	11:30:00 AM	75.044	75.113			N/A
4/8/2019	NZDJPY	1:30:00 PM	75.032	75.102			N/A
4/8/2019	NZDJPY	3:30:00 PM	75.015	75.067			N/A
4/8/2019	NZDJPY.fx	9:30:00 AM	74.998	75.002			N/A
4/8/2019	NZDJPY.fx	11:30:00 AM	75.074	75.082			N/A
4/8/2019	NZDJPY.fx	1:30:00 PM	75.063	75.071			N/A
4/8/2019	NZDJPY.fx	3:30:00 PM	75.046	75.033			N/A
4/8/2019	NZDMXN	9:30:00 AM	12.8473	12.854			N/A
4/8/2019	NZDMXN	11:30:00 AM	12.8552	12.8579			N/A
4/8/2019	NZDMXN	1:30:00 PM	12.8487	12.8548			N/A
4/8/2019	NZDMXN	3:30:00 PM	12.8235	12.8255			N/A
4/8/2019	NZDNOK	9:30:00 AM	5.7881	5.7914			N/A
4/8/2019	NZDNOK	11:30:00 AM	5.7746	5.7768			N/A

4/8/2019	NZDNOK	1:30:00 PM	5.774	5.7775			N/A
4/8/2019	NZDNOK	3:30:00 PM	5.7623	5.7639			N/A
4/8/2019	NZDPLN	9:30:00 AM	2.5714	2.5728			N/A
4/8/2019	NZDPLN	11:30:00 AM	2.5716	2.5727			N/A
4/8/2019	NZDPLN	1:30:00 PM	2.5677	2.5686			N/A
4/8/2019	NZDPLN	3:30:00 PM	2.5671	2.5681			N/A
4/8/2019	NZDSEK	9:30:00 AM	6.2527	6.2582			N/A
4/8/2019	NZDSEK	11:30:00 AM	6.2475	6.2524			N/A
4/8/2019	NZDSEK	1:30:00 PM	6.2509	6.2573			N/A
4/8/2019	NZDSEK	3:30:00 PM	6.2388	6.2442			N/A
4/8/2019	NZDSGD	9:30:00 AM	0.9127	0.9133			N/A
4/8/2019	NZDSGD	11:30:00 AM	0.9131	0.9137			N/A
4/8/2019	NZDSGD	1:30:00 PM	0.9128	0.9135			N/A
4/8/2019	NZDSGD	3:30:00 PM	0.9123	0.9127			N/A
4/8/2019	NZDSGD.fx	9:30:00 AM	0.91263	0.91317			N/A
4/8/2019	NZDSGD.fx	11:30:00 AM	0.9131	0.91361			N/A
4/8/2019	NZDSGD.fx	1:30:00 PM	0.91278	0.91341			N/A
4/8/2019	NZDSGD.fx	3:30:00 PM	0.91228	0.91268			N/A
4/8/2019	NZDUSD	9:30:00 AM	0.673	0.67305			N/A
4/8/2019	NZDUSD	11:30:00 AM	0.67342	0.67352			N/A
4/8/2019	NZDUSD	1:30:00 PM	0.67334	0.67351			N/A
4/8/2019	NZDUSD	3:30:00 PM	0.67321	0.6732			N/A
4/8/2019	NZDUSD.fx	9:30:00 AM	0.67306	0.67308			N/A
4/8/2019	NZDUSD.fx	11:30:00 AM	0.67349	0.67354			N/A
4/8/2019	NZDUSD.fx	1:30:00 PM	0.67342	0.67353			N/A
4/8/2019	NZDUSD.fx	3:30:00 PM	0.67328	0.67322			N/A
4/8/2019	NZDZAR	9:30:00 AM	9.5061	9.5229			N/A
4/8/2019	NZDZAR	11:30:00 AM	9.5085	9.5181			N/A
4/8/2019	NZDZAR	1:30:00 PM	9.5066	9.5205			N/A
4/8/2019	NZDZAR	3:30:00 PM	9.4779	9.4952			N/A
4/8/2019	SEKJPY	9:30:00 AM	11.99	11.99			N/A
4/8/2019	SEKJPY	11:30:00 AM	12.01	12.02			N/A
4/8/2019	SEKJPY	1:30:00 PM	12	12.01			N/A
4/8/2019	SEKJPY	3:30:00 PM	12.02	12.03			N/A

4/8/2019	SEKJPY.fx	9:30:00 AM	11.975	11.993			N/A
4/8/2019	SEKJPY.fx	11:30:00 AM	12.001	12.016			N/A
4/8/2019	SEKJPY.fx	1:30:00 PM	11.989	12.007			N/A
4/8/2019	SEKJPY.fx	3:30:00 PM	12.009	12.028			N/A
4/8/2019	SGDJPY	9:30:00 AM	82.16	82.16			N/A
4/8/2019	SGDJPY	11:30:00 AM	82.22	82.2			N/A
4/8/2019	SGDJPY	1:30:00 PM	82.19	82.21			N/A
4/8/2019	SGDJPY	3:30:00 PM	82.26	82.24			N/A
4/8/2019	SILVER	9:30:00 AM	14.94	15.32			N/A
4/8/2019	SILVER	11:30:00 AM	14.96	15.33			N/A
4/8/2019	SILVER	1:30:00 PM	14.95	15.34			N/A
4/8/2019	SILVER	3:30:00 PM	15.05	15.41			N/A
4/8/2019	SPX500.i	9:30:00 AM	2886.85	2888.15			N/A
4/8/2019	SPX500.i	11:30:00 AM	2888.06	2889.02			N/A
4/8/2019	SPX500.i	1:30:00 PM	2890.47	2891.02			N/A
4/8/2019	SPX500.i	3:30:00 PM	2889.47	2890.27			N/A
4/8/2019	UK100.i	9:30:00 AM	7434.75	7436.75			N/A
4/8/2019	UK100.i	11:30:00 AM	7433.66	7433.91			N/A
4/8/2019	UK100.i	1:30:00 PM	7461.91	7463.83			N/A
4/8/2019	UK100.i	3:30:00 PM	7458.99	7460.41			N/A
4/8/2019	USDCAD	9:30:00 AM	1.33851	1.33856			N/A
4/8/2019	USDCAD	11:30:00 AM	1.33799	1.33789			N/A
4/8/2019	USDCAD	1:30:00 PM	1.33756	1.33772			N/A
4/8/2019	USDCAD	3:30:00 PM	1.33711	1.33696			N/A
4/8/2019	USDCAD.fx	9:30:00 AM	1.33853	1.33853			N/A
4/8/2019	USDCAD.fx	11:30:00 AM	1.33801	1.33786			N/A
4/8/2019	USDCAD.fx	1:30:00 PM	1.33758	1.33769			N/A
4/8/2019	USDCAD.fx	3:30:00 PM	1.33713	1.33694			N/A
4/8/2019	USDCHF	9:30:00 AM	0.99908	0.99918			N/A
4/8/2019	USDCHF	11:30:00 AM	0.99926	0.99933			N/A
4/8/2019	USDCHF	1:30:00 PM	0.99978	0.99987			N/A
4/8/2019	USDCHF	3:30:00 PM	1	1.00012			N/A
4/8/2019	USDCHF.fx	9:30:00 AM	0.99911	0.99914			N/A
4/8/2019	USDCHF.fx	11:30:00 AM	0.99931	0.99927			N/A

4/8/2019	USDCHF.fx	1:30:00 PM	0.99983	0.9998			N/A
4/8/2019	USDCHF.fx	3:30:00 PM	1.00005	1.00006			N/A
4/8/2019	USDCZK	9:30:00 AM	22.832	22.854			N/A
4/8/2019	USDCZK	11:30:00 AM	22.811	22.833			N/A
4/8/2019	USDCZK	1:30:00 PM	22.802	22.825			N/A
4/8/2019	USDCZK	3:30:00 PM	22.784	22.806			N/A
4/8/2019	USDCZK.fx	9:30:00 AM	22.8406	22.8456			N/A
4/8/2019	USDCZK.fx	11:30:00 AM	22.8194	22.8251			N/A
4/8/2019	USDCZK.fx	1:30:00 PM	22.8112	22.8164			N/A
4/8/2019	USDCZK.fx	3:30:00 PM	22.7926	22.7988			N/A
4/8/2019	USDDKK	9:30:00 AM	6.6481	6.6523			N/A
4/8/2019	USDDKK	11:30:00 AM	6.6444	6.648			N/A
4/8/2019	USDDKK	1:30:00 PM	6.6402	6.6443			N/A
4/8/2019	USDDKK	3:30:00 PM	6.6382	6.6421			N/A
4/8/2019	USDDKK.fx	9:30:00 AM	6.6489	6.65038			N/A
4/8/2019	USDDKK.fx	11:30:00 AM	6.6451	6.646			N/A
4/8/2019	USDDKK.fx	1:30:00 PM	6.6407	6.6422			N/A
4/8/2019	USDDKK.fx	3:30:00 PM	6.63864	6.64012			N/A
4/8/2019	USDHKD	9:30:00 AM	7.8494	7.8496			N/A
4/8/2019	USDHKD	11:30:00 AM	7.849	7.8495			N/A
4/8/2019	USDHKD	1:30:00 PM	7.847	7.8473			N/A
4/8/2019	USDHKD	3:30:00 PM	7.8458	7.8463			N/A
4/8/2019	USDHKD.fx	9:30:00 AM					N/A
4/8/2019	USDHKD.fx	11:30:00 AM	7.84915	7.84966			N/A
4/8/2019	USDHKD.fx	1:30:00 PM	7.84688	7.84742			N/A
4/8/2019	USDHKD.fx	3:30:00 PM	7.8465	7.8471			N/A
4/8/2019	USDHUF	9:30:00 AM	285.84	286.32			N/A
4/8/2019	USDHUF	11:30:00 AM	286.11	286.57			N/A
4/8/2019	USDHUF	1:30:00 PM	285.85	286.26			N/A
4/8/2019	USDHUF	3:30:00 PM	285.79	286.24			N/A
4/8/2019	USDHUF.fx	9:30:00 AM	286.036	286.13			N/A
4/8/2019	USDHUF.fx	11:30:00 AM	286.303	286.365			N/A
4/8/2019	USDHUF.fx	1:30:00 PM	286.045	286.055			N/A
4/8/2019	USDHUF.fx	3:30:00 PM	285.985	286.057			N/A

4/8/2019	USDINR	9:30:00 AM	64.53	74.52			N/A
4/8/2019	USDINR	11:30:00 AM	64.68	74.66			N/A
4/8/2019	USDINR	1:30:00 PM					N/A
4/8/2019	USDINR	3:30:00 PM					N/A
4/8/2019	USDJPY	9:30:00 AM	111.43	111.435			N/A
4/8/2019	USDJPY	11:30:00 AM	111.468	111.477			N/A
4/8/2019	USDJPY	1:30:00 PM	111.462	111.468			N/A
4/8/2019	USDJPY	3:30:00 PM	111.455	111.462			N/A
4/8/2019	USDJPY.fx	9:30:00 AM	111.435	111.428			N/A
4/8/2019	USDJPY.fx	11:30:00 AM	111.473	111.47			N/A
4/8/2019	USDJPY.fx	1:30:00 PM	111.468	111.462			N/A
4/8/2019	USDJPY.fx	3:30:00 PM	111.461	111.454			N/A
4/8/2019	USDMXN	9:30:00 AM	19.097	19.103			N/A
4/8/2019	USDMXN	11:30:00 AM	19.095	19.096			N/A
4/8/2019	USDMXN	1:30:00 PM	19.086	19.095			N/A
4/8/2019	USDMXN	3:30:00 PM	19.053	19.059			N/A
4/8/2019	USDMXN.f	9:30:00 AM	19.1007	19.0994			N/A
4/8/2019	USDMXN.f	11:30:00 AM	19.0981	19.0925			N/A
4/8/2019	USDMXN.f	1:30:00 PM	19.0894	19.0917			N/A
4/8/2019	USDMXN.f	3:30:00 PM	19.0566	19.0553			N/A
4/8/2019	USDNOK	9:30:00 AM	8.6015	8.6084			N/A
4/8/2019	USDNOK	11:30:00 AM	8.5755	8.5811			N/A
4/8/2019	USDNOK	1:30:00 PM	8.575	8.5839			N/A
4/8/2019	USDNOK	3:30:00 PM	8.5581	8.5666			N/A
4/8/2019	USDNOK.fx	9:30:00 AM	8.60532	8.60388			N/A
4/8/2019	USDNOK.fx	11:30:00 AM	8.57965	8.57668			N/A
4/8/2019	USDNOK.fx	1:30:00 PM	8.57876	8.57955			N/A
4/8/2019	USDNOK.fx	3:30:00 PM	8.562	8.56225			N/A
4/8/2019	USDPLN	9:30:00 AM	3.8223	3.824			N/A
4/8/2019	USDPLN	11:30:00 AM	3.8192	3.8201			N/A
4/8/2019	USDPLN	1:30:00 PM	3.8139	3.8151			N/A
4/8/2019	USDPLN	3:30:00 PM	3.8131	3.8148			N/A
4/8/2019	USDPLN.fx	9:30:00 AM	3.82144	3.82491			N/A
4/8/2019	USDPLN.fx	11:30:00 AM	3.8183	3.82086			N/A

4/8/2019	USDPLN.fx	1:30:00 PM	3.81301	3.81593			N/A
4/8/2019	USDPLN.fx	3:30:00 PM	3.81228	3.81561			N/A
4/8/2019	USDRUB	9:30:00 AM					N/A
4/8/2019	USDRUB	11:30:00 AM	65.187	65.568			N/A
4/8/2019	USDRUB	1:30:00 PM	65.116	65.48			N/A
4/8/2019	USDRUB	3:30:00 PM	64.987	65.377			N/A
4/8/2019	USDSEK	9:30:00 AM	9.2956	9.2986			N/A
4/8/2019	USDSEK	11:30:00 AM	9.2819	9.2825			N/A
4/8/2019	USDSEK	1:30:00 PM	9.2876	9.2919			N/A
4/8/2019	USDSEK	3:30:00 PM	9.2713	9.2755			N/A
4/8/2019	USDSEK.fx	9:30:00 AM	9.29793	9.29706			N/A
4/8/2019	USDSEK.fx	11:30:00 AM	9.28432	9.28083			N/A
4/8/2019	USDSEK.fx	1:30:00 PM	9.28987	9.29017			N/A
4/8/2019	USDSEK.fx	3:30:00 PM	9.27389	9.27373			N/A
4/8/2019	USDSGD	9:30:00 AM	1.3562	1.3564			N/A
4/8/2019	USDSGD	11:30:00 AM	1.3559	1.3563			N/A
4/8/2019	USDSGD	1:30:00 PM	1.3557	1.3561			N/A
4/8/2019	USDSGD	3:30:00 PM	1.3552	1.3556			N/A
4/8/2019	USDSGD.fx	9:30:00 AM	1.35609	1.35643			N/A
4/8/2019	USDSGD.fx	11:30:00 AM	1.35587	1.35637			N/A
4/8/2019	USDSGD.fx	1:30:00 PM	1.35558	1.35609			N/A
4/8/2019	USDSGD.fx	3:30:00 PM	1.35506	1.35556			N/A
4/8/2019	USDZAR	9:30:00 AM	14.1384	14.1503			N/A
4/8/2019	USDZAR	11:30:00 AM	14.1313	14.1352			N/A
4/8/2019	USDZAR	1:30:00 PM	14.1278	14.1409			N/A
4/8/2019	USDZAR	3:30:00 PM	14.0887	14.1046			N/A
4/8/2019	USDZAR.fx	9:30:00 AM	14.14337	14.14562			N/A
4/8/2019	USDZAR.fx	11:30:00 AM	14.13762	14.13022			N/A
4/8/2019	USDZAR.fx	1:30:00 PM	14.13317	14.13517			N/A
4/8/2019	USDZAR.fx	3:30:00 PM	14.09497	14.09806			N/A
4/8/2019	XAUUSD	9:30:00 AM	1296.32	1296.08			N/A
4/8/2019	XAUUSD	11:30:00 AM	1296.99	1297.24			N/A
4/8/2019	XAUUSD	1:30:00 PM	1297.35	1297.62			N/A
4/8/2019	XAUUSD	3:30:00 PM	1299.51	1299.66			N/A

4/8/2019	ZARJPY	9:30:00 AM	7.86	7.88			N/A
4/8/2019	ZARJPY	11:30:00 AM	7.87	7.89			N/A
4/8/2019	ZARJPY	1:30:00 PM	7.87	7.89			N/A
4/8/2019	ZARJPY	3:30:00 PM	7.89	7.91			N/A
4/8/2019	ZARJPY.fx	9:30:00 AM	7.876	7.878			N/A
4/8/2019	ZARJPY.fx	11:30:00 AM	7.888	7.886			N/A
4/8/2019	ZARJPY.fx	1:30:00 PM	7.885	7.887			N/A
4/8/2019	ZARJPY.fx	3:30:00 PM	7.905	7.908			N/A
4/9/2019	#AA	9:30:00 AM					N/A
4/9/2019	#AA	11:30:00 AM					N/A
4/9/2019	#AA	1:30:00 PM					N/A
4/9/2019	#AA	3:30:00 PM					N/A
4/9/2019	#AABA	9:30:00 AM					N/A
4/9/2019	#AABA	11:30:00 AM					N/A
4/9/2019	#AABA	1:30:00 PM					N/A
4/9/2019	#AABA	3:30:00 PM					N/A
4/9/2019	#AAL	9:30:00 AM					N/A
4/9/2019	#AAL	11:30:00 AM					N/A
4/9/2019	#AAL	1:30:00 PM					N/A
4/9/2019	#AAL	3:30:00 PM					N/A
4/9/2019	#AAPL	9:30:00 AM					N/A
4/9/2019	#AAPL	11:30:00 AM					N/A
4/9/2019	#AAPL	1:30:00 PM					N/A
4/9/2019	#AAPL	3:30:00 PM					N/A
4/9/2019	#ADBE	9:30:00 AM					N/A
4/9/2019	#ADBE	11:30:00 AM					N/A
4/9/2019	#ADBE	1:30:00 PM					N/A
4/9/2019	#ADBE	3:30:00 PM					N/A
4/9/2019	#AIG	9:30:00 AM					N/A
4/9/2019	#AIG	11:30:00 AM					N/A
4/9/2019	#AIG	1:30:00 PM					N/A
4/9/2019	#AIG	3:30:00 PM					N/A
4/9/2019	#AMD	9:30:00 AM					N/A
4/9/2019	#AMD	11:30:00 AM					N/A

4/9/2019	#AMD	1:30:00 PM					N/A
4/9/2019	#AMD	3:30:00 PM					N/A
4/9/2019	#AMZN	9:30:00 AM					N/A
4/9/2019	#AMZN	11:30:00 AM					N/A
4/9/2019	#AMZN	1:30:00 PM					N/A
4/9/2019	#AMZN	3:30:00 PM					N/A
4/9/2019	#AXP	9:30:00 AM					N/A
4/9/2019	#AXP	11:30:00 AM					N/A
4/9/2019	#AXP	1:30:00 PM					N/A
4/9/2019	#AXP	3:30:00 PM					N/A
4/9/2019	#BA	9:30:00 AM					N/A
4/9/2019	#BA	11:30:00 AM					N/A
4/9/2019	#BA	1:30:00 PM					N/A
4/9/2019	#BA	3:30:00 PM					N/A
4/9/2019	#BABA	9:30:00 AM					N/A
4/9/2019	#BABA	11:30:00 AM					N/A
4/9/2019	#BABA	1:30:00 PM					N/A
4/9/2019	#BABA	3:30:00 PM					N/A
4/9/2019	#BAC	9:30:00 AM					N/A
4/9/2019	#BAC	11:30:00 AM					N/A
4/9/2019	#BAC	1:30:00 PM					N/A
4/9/2019	#BAC	3:30:00 PM					N/A
4/9/2019	#BARC	9:30:00 AM					N/A
4/9/2019	#BARC	11:30:00 AM					N/A
4/9/2019	#BARC	1:30:00 PM					N/A
4/9/2019	#BARC	3:30:00 PM					N/A
4/9/2019	#BHP	9:30:00 AM					N/A
4/9/2019	#BHP	11:30:00 AM					N/A
4/9/2019	#BHP	1:30:00 PM					N/A
4/9/2019	#BHP	3:30:00 PM					N/A
4/9/2019	#BIDU	9:30:00 AM					N/A
4/9/2019	#BIDU	11:30:00 AM					N/A
4/9/2019	#BIDU	1:30:00 PM					N/A
4/9/2019	#BIDU	3:30:00 PM					N/A

4/9/2019	#Bitcoin	9:30:00 AM	5219.26	5294.26			N/A
4/9/2019	#Bitcoin	11:30:00 AM	5199.81	5271.46			N/A
4/9/2019	#Bitcoin	1:30:00 PM	5169.26	5242.86			N/A
4/9/2019	#Bitcoin	3:30:00 PM					N/A
4/9/2019	#BK	9:30:00 AM					N/A
4/9/2019	#BK	11:30:00 AM					N/A
4/9/2019	#BK	1:30:00 PM					N/A
4/9/2019	#BK	3:30:00 PM					N/A
4/9/2019	#BLT	9:30:00 AM					N/A
4/9/2019	#BLT	11:30:00 AM					N/A
4/9/2019	#BLT	1:30:00 PM					N/A
4/9/2019	#BLT	3:30:00 PM					N/A
4/9/2019	#BP	9:30:00 AM					N/A
4/9/2019	#BP	11:30:00 AM					N/A
4/9/2019	#BP	1:30:00 PM					N/A
4/9/2019	#BP	3:30:00 PM					N/A
4/9/2019	#BTA	9:30:00 AM					N/A
4/9/2019	#BTA	11:30:00 AM					N/A
4/9/2019	#BTA	1:30:00 PM					N/A
4/9/2019	#BTA	3:30:00 PM					N/A
4/9/2019	#C	9:30:00 AM					N/A
4/9/2019	#C	11:30:00 AM					N/A
4/9/2019	#C	1:30:00 PM					N/A
4/9/2019	#C	3:30:00 PM					N/A
4/9/2019	#CAT	9:30:00 AM					N/A
4/9/2019	#CAT	11:30:00 AM					N/A
4/9/2019	#CAT	1:30:00 PM					N/A
4/9/2019	#CAT	3:30:00 PM					N/A
4/9/2019	#CHL	9:30:00 AM					N/A
4/9/2019	#CHL	11:30:00 AM					N/A
4/9/2019	#CHL	1:30:00 PM					N/A
4/9/2019	#CHL	3:30:00 PM					N/A
4/9/2019	#CL.f	9:30:00 AM	64.325	64.365			N/A
4/9/2019	#CL.f	11:30:00 AM	64.528	64.556			N/A

4/9/2019	#CL.f	1:30:00 PM	64.389	64.42			N/A
4/9/2019	#CL.f	3:30:00 PM	64.19	64.201			N/A
4/9/2019	#CMCSA	9:30:00 AM					N/A
4/9/2019	#CMCSA	11:30:00 AM					N/A
4/9/2019	#CMCSA	1:30:00 PM					N/A
4/9/2019	#CMCSA	3:30:00 PM					N/A
4/9/2019	#CSCO	9:30:00 AM					N/A
4/9/2019	#CSCO	11:30:00 AM					N/A
4/9/2019	#CSCO	1:30:00 PM					N/A
4/9/2019	#CSCO	3:30:00 PM					N/A
4/9/2019	#CVX	9:30:00 AM					N/A
4/9/2019	#CVX	11:30:00 AM					N/A
4/9/2019	#CVX	1:30:00 PM					N/A
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4/9/2019	AUDCHF	9:30:00 AM	0.71289	0.71349			N/A
4/9/2019	AUDCHF	11:30:00 AM	0.71351	0.71417			N/A
4/9/2019	AUDCHF	1:30:00 PM	0.71404	0.71461			N/A
4/9/2019	AUDCHF	3:30:00 PM	0.71412	0.71461			N/A
4/9/2019	AUDCHF.fx	9:30:00 AM	0.71323	0.71314			N/A
4/9/2019	AUDCHF.fx	11:30:00 AM	0.71385	0.71383			N/A
4/9/2019	AUDCHF.fx	1:30:00 PM	0.71438	0.71426			N/A
4/9/2019	AUDCHF.fx	3:30:00 PM	0.71446	0.71426			N/A
4/9/2019	AUDCZK	9:30:00 AM	16.219	16.235			N/A
4/9/2019	AUDCZK	11:30:00 AM	16.222	16.239			N/A
4/9/2019	AUDCZK	1:30:00 PM	16.218	16.234			N/A
4/9/2019	AUDCZK	3:30:00 PM	16.22	16.234			N/A
4/9/2019	AUDDKK	9:30:00 AM	4.7307	4.7347			N/A
4/9/2019	AUDDKK	11:30:00 AM	4.7314	4.7358			N/A
4/9/2019	AUDDKK	1:30:00 PM	4.731	4.7355			N/A
4/9/2019	AUDDKK	3:30:00 PM	4.7296	4.7336			N/A

4/9/2019	AUDHKD	9:30:00 AM	5.597	5.5995			N/A
4/9/2019	AUDHKD	11:30:00 AM	5.6023	5.6062			N/A
4/9/2019	AUDHKD	1:30:00 PM	5.604	5.6075			N/A
4/9/2019	AUDHKD	3:30:00 PM	5.6025	5.6058			N/A
4/9/2019	AUDHUF	9:30:00 AM	203.39	203.59			N/A
4/9/2019	AUDHUF	11:30:00 AM	203.41	203.57			N/A
4/9/2019	AUDHUF	1:30:00 PM	203.86	204.06			N/A
4/9/2019	AUDHUF	3:30:00 PM	203.66	203.89			N/A
4/9/2019	AUDJPY	9:30:00 AM	79.477	79.533			N/A
4/9/2019	AUDJPY	11:30:00 AM	79.485	79.551			N/A
4/9/2019	AUDJPY	1:30:00 PM	79.538	79.604			N/A
4/9/2019	AUDJPY	3:30:00 PM	79.475	79.529			N/A
4/9/2019	AUDJPY.fx	9:30:00 AM	79.511	79.498			N/A
4/9/2019	AUDJPY.fx	11:30:00 AM	79.519	79.516			N/A
4/9/2019	AUDJPY.fx	1:30:00 PM	79.571	79.569			N/A
4/9/2019	AUDJPY.fx	3:30:00 PM	79.508	79.495			N/A
4/9/2019	AUDMXN	9:30:00 AM	13.5163	13.5212			N/A
4/9/2019	AUDMXN	11:30:00 AM	13.5312	13.5407			N/A
4/9/2019	AUDMXN	1:30:00 PM	13.5284	13.5363			N/A
4/9/2019	AUDMXN	3:30:00 PM	13.5124	13.5185			N/A
4/9/2019	AUDNOK	9:30:00 AM	6.1064	6.1091			N/A
4/9/2019	AUDNOK	11:30:00 AM	6.1003	6.105			N/A
4/9/2019	AUDNOK	1:30:00 PM	6.0965	6.1012			N/A
4/9/2019	AUDNOK	3:30:00 PM	6.0945	6.0986			N/A
4/9/2019	AUDNOK.fx	9:30:00 AM	6.1079	6.1076			N/A
4/9/2019	AUDNOK.fx	11:30:00 AM	6.1018	6.1034			N/A
4/9/2019	AUDNOK.fx	1:30:00 PM	6.0982	6.0996			N/A
4/9/2019	AUDNOK.fx	3:30:00 PM	6.0961	6.0969			N/A
4/9/2019	AUDNZD	9:30:00 AM	1.05801	1.0589			N/A
4/9/2019	AUDNZD	11:30:00 AM	1.05772	1.05859			N/A
4/9/2019	AUDNZD	1:30:00 PM	1.05851	1.0594			N/A
4/9/2019	AUDNZD	3:30:00 PM	1.05908	1.05994			N/A
4/9/2019	AUDNZD.fx	9:30:00 AM	1.05844	1.05846			N/A
4/9/2019	AUDNZD.fx	11:30:00 AM	1.05815	1.05815			N/A

4/9/2019	AUDNZD.fx	1:30:00 PM	1.05894	1.05896			N/A
4/9/2019	AUDNZD.fx	3:30:00 PM	1.05951	1.0595			N/A
4/9/2019	AUDPLN	9:30:00 AM	2.7165	2.7196			N/A
4/9/2019	AUDPLN	11:30:00 AM	2.7165	2.7195			N/A
4/9/2019	AUDPLN	1:30:00 PM	2.7175	2.7204			N/A
4/9/2019	AUDPLN	3:30:00 PM	2.7162	2.7189			N/A
4/9/2019	AUDSEK	9:30:00 AM	6.6125	6.6148			N/A
4/9/2019	AUDSEK	11:30:00 AM	6.6076	6.6104			N/A
4/9/2019	AUDSEK	1:30:00 PM	6.6027	6.6053			N/A
4/9/2019	AUDSEK	3:30:00 PM	6.6042	6.6042			N/A
4/9/2019	AUDSEK.fx	9:30:00 AM	6.6077	6.6192			N/A
4/9/2019	AUDSEK.fx	11:30:00 AM	6.6028	6.615			N/A
4/9/2019	AUDSEK.fx	1:30:00 PM	6.598	6.6098			N/A
4/9/2019	AUDSEK.fx	3:30:00 PM	6.5996	6.6085			N/A
4/9/2019	AUDSGD	9:30:00 AM	0.9668	0.9669			N/A
4/9/2019	AUDSGD	11:30:00 AM	0.9671	0.9674			N/A
4/9/2019	AUDSGD	1:30:00 PM	0.9667	0.9669			N/A
4/9/2019	AUDSGD	3:30:00 PM	0.9667	0.9668			N/A
4/9/2019	AUDSGD.fx	9:30:00 AM	0.9669	0.96687			N/A
4/9/2019	AUDSGD.fx	11:30:00 AM	0.96721	0.96728			N/A
4/9/2019	AUDSGD.fx	1:30:00 PM	0.96683	0.96689			N/A
4/9/2019	AUDSGD.fx	3:30:00 PM	0.96674	0.96671			N/A
4/9/2019	AUDUSD	9:30:00 AM	0.71407	0.71405			N/A
4/9/2019	AUDUSD	11:30:00 AM	0.71469	0.71476			N/A
4/9/2019	AUDUSD	1:30:00 PM	0.71487	0.71501			N/A
4/9/2019	AUDUSD	3:30:00 PM	0.71479	0.71478			N/A
4/9/2019	AUDUSD.fx	9:30:00 AM	0.71412	0.71399			N/A
4/9/2019	AUDUSD.fx	11:30:00 AM	0.71474	0.7147			N/A
4/9/2019	AUDUSD.fx	1:30:00 PM	0.71492	0.71495			N/A
4/9/2019	AUDUSD.fx	3:30:00 PM	0.71484	0.71472			N/A
4/9/2019	AUDZAR	9:30:00 AM	10.0682	10.0758			N/A
4/9/2019	AUDZAR	11:30:00 AM	10.0379	10.0501			N/A
4/9/2019	AUDZAR	1:30:00 PM	10.0161	10.0308			N/A
4/9/2019	AUDZAR	3:30:00 PM	10.0179	10.0326			N/A

4/9/2019	AUS200.i	9:30:00 AM					N/A
4/9/2019	AUS200.i	11:30:00 AM	6216.83	6220.13			N/A
4/9/2019	AUS200.i	1:30:00 PM	6214.13	6218.63			N/A
4/9/2019	AUS200.i	3:30:00 PM	6202.13	6204.73			N/A
4/9/2019	BCHUSD	9:30:00 AM	300.56	311.75			N/A
4/9/2019	BCHUSD	11:30:00 AM	298.45	309.78			N/A
4/9/2019	BCHUSD	1:30:00 PM	296.89	308.15			N/A
4/9/2019	BCHUSD	3:30:00 PM	303.49	314.15			N/A
4/9/2019	CADCHF	9:30:00 AM	0.75018	0.75081			N/A
4/9/2019	CADCHF	11:30:00 AM	0.75057	0.75115			N/A
4/9/2019	CADCHF	1:30:00 PM	0.75099	0.75155			N/A
4/9/2019	CADCHF	3:30:00 PM	0.75186	0.75229			N/A
4/9/2019	CADCHF.fx	9:30:00 AM	0.75051	0.75043			N/A
4/9/2019	CADCHF.fx	11:30:00 AM	0.75091	0.7508			N/A
4/9/2019	CADCHF.fx	1:30:00 PM	0.75134	0.75119			N/A
4/9/2019	CADCHF.fx	3:30:00 PM	0.7522	0.75193			N/A
4/9/2019	CADCZK	9:30:00 AM	17.07	17.085			N/A
4/9/2019	CADCZK	11:30:00 AM	17.067	17.083			N/A
4/9/2019	CADCZK	1:30:00 PM	17.059	17.076			N/A
4/9/2019	CADCZK	3:30:00 PM	17.08	17.093			N/A
4/9/2019	CADDKK	9:30:00 AM	4.979	4.983			N/A
4/9/2019	CADDKK	11:30:00 AM					N/A
4/9/2019	CADDKK	1:30:00 PM					N/A
4/9/2019	CADDKK	3:30:00 PM	4.98	4.984			N/A
4/9/2019	CADHKD	9:30:00 AM	5.8906	5.8934			N/A
4/9/2019	CADHKD	11:30:00 AM	5.894	5.8976			N/A
4/9/2019	CADHKD	1:30:00 PM	5.8948	5.8985			N/A
4/9/2019	CADHKD	3:30:00 PM	5.8991	5.9024			N/A
4/9/2019	CADHUF	9:30:00 AM	214.09	214.24			N/A
4/9/2019	CADHUF	11:30:00 AM	214.01	214.13			N/A
4/9/2019	CADHUF	1:30:00 PM	214.48	214.6			N/A
4/9/2019	CADHUF	3:30:00 PM	214.5	214.63			N/A
4/9/2019	CADJPY	9:30:00 AM	83.635	83.69			N/A
4/9/2019	CADJPY	11:30:00 AM	83.61	83.676			N/A

4/9/2019	CADJPY	1:30:00 PM	83.652	83.718			N/A
4/9/2019	CADJPY	3:30:00 PM	83.672	83.721			N/A
4/9/2019	CADJPY.fx	9:30:00 AM	83.667	83.655			N/A
4/9/2019	CADJPY.fx	11:30:00 AM	83.643	83.642			N/A
4/9/2019	CADJPY.fx	1:30:00 PM	83.686	83.683			N/A
4/9/2019	CADJPY.fx	3:30:00 PM	83.708	83.686			N/A
4/9/2019	CADMXN	9:30:00 AM	14.2236	14.232			N/A
4/9/2019	CADMXN	11:30:00 AM	14.2345	14.2462			N/A
4/9/2019	CADMXN	1:30:00 PM	14.23	14.2399			N/A
4/9/2019	CADMXN	3:30:00 PM	14.2269	14.2355			N/A
4/9/2019	CADNOK	9:30:00 AM	6.4254	6.4281			N/A
4/9/2019	CADNOK	11:30:00 AM	6.4161	6.4204			N/A
4/9/2019	CADNOK	1:30:00 PM	6.4116	6.416			N/A
4/9/2019	CADNOK	3:30:00 PM	6.4167	6.4189			N/A
4/9/2019	CADPLN	9:30:00 AM	2.8586	2.8605			N/A
4/9/2019	CADPLN	11:30:00 AM	2.8578	2.8597			N/A
4/9/2019	CADPLN	1:30:00 PM	2.8585	2.8601			N/A
4/9/2019	CADPLN	3:30:00 PM	2.8603	2.8622			N/A
4/9/2019	CADSEK	9:30:00 AM	6.9568	6.9606			N/A
4/9/2019	CADSEK	11:30:00 AM	6.9496	6.9522			N/A
4/9/2019	CADSEK	1:30:00 PM	6.9434	6.9467			N/A
4/9/2019	CADSEK	3:30:00 PM	6.9523	6.9518			N/A
4/9/2019	CADSGD	9:30:00 AM	1.0166	1.0169			N/A
4/9/2019	CADSGD	11:30:00 AM	1.0168	1.0171			N/A
4/9/2019	CADSGD	1:30:00 PM	1.0162	1.0165			N/A
4/9/2019	CADSGD	3:30:00 PM	1.0172	1.0175			N/A
4/9/2019	CADZAR	9:30:00 AM	10.5962	10.605			N/A
4/9/2019	CADZAR	11:30:00 AM	10.56	10.5743			N/A
4/9/2019	CADZAR	1:30:00 PM	10.5351	10.5525			N/A
4/9/2019	CADZAR	3:30:00 PM	10.5488	10.564			N/A
4/9/2019	CHFCZK	9:30:00 AM	22.747	22.765			N/A
4/9/2019	CHFCZK	11:30:00 AM	22.736	22.75			N/A
4/9/2019	CHFCZK	1:30:00 PM	22.713	22.724			N/A
4/9/2019	CHFCZK	3:30:00 PM	22.715	22.726			N/A

4/9/2019	CHFDKK	9:30:00 AM					N/A
4/9/2019	CHFDKK	11:30:00 AM	6.629	6.633			N/A
4/9/2019	CHFDKK	1:30:00 PM	6.626	6.627			N/A
4/9/2019	CHFDKK	3:30:00 PM	6.622	6.625			N/A
4/9/2019	CHFDKK.fx	9:30:00 AM	6.6327	6.6391			N/A
4/9/2019	CHFDKK.fx	11:30:00 AM	6.6286	6.6338			N/A
4/9/2019	CHFDKK.fx	1:30:00 PM	6.6242	6.6283			N/A
4/9/2019	CHFDKK.fx	3:30:00 PM	6.6206	6.6261			N/A
4/9/2019	CHFHKD	9:30:00 AM	7.8496	7.8535			N/A
4/9/2019	CHFHKD	11:30:00 AM	7.8517	7.8551			N/A
4/9/2019	CHFHKD	1:30:00 PM	7.8481	7.8508			N/A
4/9/2019	CHFHKD	3:30:00 PM	7.8458	7.8473			N/A
4/9/2019	CHFHUF	9:30:00 AM	285.18	285.57			N/A
4/9/2019	CHFHUF	11:30:00 AM	285.01	285.23			N/A
4/9/2019	CHFHUF	1:30:00 PM	285.44	285.72			N/A
4/9/2019	CHFHUF	3:30:00 PM	285.15	285.46			N/A
4/9/2019	CHFJPY	9:30:00 AM	111.442	111.514			N/A
4/9/2019	CHFJPY	11:30:00 AM	111.371	111.428			N/A
4/9/2019	CHFJPY	1:30:00 PM	111.363	111.422			N/A
4/9/2019	CHFJPY	3:30:00 PM	111.262	111.319			N/A
4/9/2019	CHFJPY.fx	9:30:00 AM	111.475	111.479			N/A
4/9/2019	CHFJPY.fx	11:30:00 AM	111.405	111.393			N/A
4/9/2019	CHFJPY.fx	1:30:00 PM	111.396	111.387			N/A
4/9/2019	CHFJPY.fx	3:30:00 PM	111.294	111.285			N/A
4/9/2019	CHFMXN	9:30:00 AM	18.954	18.9647			N/A
4/9/2019	CHFMXN	11:30:00 AM	18.9597	18.9732			N/A
4/9/2019	CHFMXN	1:30:00 PM	18.9428	18.953			N/A
4/9/2019	CHFMXN	3:30:00 PM	18.9193	18.9254			N/A
4/9/2019	CHFNOK	9:30:00 AM	8.5622	8.5665			N/A
4/9/2019	CHFNOK	11:30:00 AM	8.5458	8.5524			N/A
4/9/2019	CHFNOK	1:30:00 PM	8.5354	8.5407			N/A
4/9/2019	CHFNOK	3:30:00 PM	8.5305	8.5377			N/A
4/9/2019	CHFNOK.fx	9:30:00 AM	8.56626	8.56318			N/A
4/9/2019	CHFNOK.fx	11:30:00 AM	8.54914	8.54906			N/A

4/9/2019	CHFNOK.fx	1:30:00 PM	8.53872	8.53731			N/A
4/9/2019	CHFNOK.fx	3:30:00 PM	8.53389	8.53432			N/A
4/9/2019	CHFPLN	9:30:00 AM	3.8094	3.8125			N/A
4/9/2019	CHFPLN	11:30:00 AM	3.8063	3.8089			N/A
4/9/2019	CHFPLN	1:30:00 PM	3.8051	3.8071			N/A
4/9/2019	CHFPLN	3:30:00 PM	3.8028	3.8057			N/A
4/9/2019	CHFPLN.fx	9:30:00 AM	3.80686	3.81495			N/A
4/9/2019	CHFPLN.fx	11:30:00 AM	3.80404	3.81125			N/A
4/9/2019	CHFPLN.fx	1:30:00 PM	3.8027	3.80933			N/A
4/9/2019	CHFPLN.fx	3:30:00 PM	3.80036	3.80801			N/A
4/9/2019	CHFSEK	9:30:00 AM	9.271	9.274			N/A
4/9/2019	CHFSEK	11:30:00 AM	9.2565	9.2595			N/A
4/9/2019	CHFSEK	1:30:00 PM	9.2435	9.2456			N/A
4/9/2019	CHFSEK	3:30:00 PM	9.2432	9.2448			N/A
4/9/2019	CHFSGD	9:30:00 AM	1.3555	1.356			N/A
4/9/2019	CHFSGD	11:30:00 AM	1.3549	1.3552			N/A
4/9/2019	CHFSGD	1:30:00 PM	1.3535	1.3536			N/A
4/9/2019	CHFSGD	3:30:00 PM	1.3533	1.3535			N/A
4/9/2019	CHFSGD.fx	9:30:00 AM	1.35565	1.3558			N/A
4/9/2019	CHFSGD.fx	11:30:00 AM	1.35503	1.35503			N/A
4/9/2019	CHFSGD.fx	1:30:00 PM	1.35366	1.35343			N/A
4/9/2019	CHFSGD.fx	3:30:00 PM	1.35338	1.35325			N/A
4/9/2019	CHFZAR	9:30:00 AM	14.1253	14.127			N/A
4/9/2019	CHFZAR	11:30:00 AM	14.0694	14.0776			N/A
4/9/2019	CHFZAR	1:30:00 PM	14.029	14.0402			N/A
4/9/2019	CHFZAR	3:30:00 PM	14.0304	14.0422			N/A
4/9/2019	CZKJPY	9:30:00 AM					N/A
4/9/2019	CZKJPY	11:30:00 AM	4.898	4.902			N/A
4/9/2019	CZKJPY	1:30:00 PM					N/A
4/9/2019	CZKJPY	3:30:00 PM	4.897	4.901			N/A
4/9/2019	DAX30.i	9:30:00 AM	11930.66	11927.91			N/A
4/9/2019	DAX30.i	11:30:00 AM	11963.91	11962.41			N/A
4/9/2019	DAX30.i	1:30:00 PM	11983.16	11980.41			N/A
4/9/2019	DAX30.i	3:30:00 PM	11928.41	11906.41			N/A

4/9/2019	DJ30.i	9:30:00 AM					N/A
4/9/2019	DJ30.i	11:30:00 AM					N/A
4/9/2019	DJ30.i	1:30:00 PM					N/A
4/9/2019	DJ30.i	3:30:00 PM					N/A
4/9/2019	DKKJPY	9:30:00 AM					N/A
4/9/2019	DKKJPY	11:30:00 AM					N/A
4/9/2019	DKKJPY	1:30:00 PM					N/A
4/9/2019	DKKJPY	3:30:00 PM					N/A
4/9/2019	EURAUD	9:30:00 AM	1.57677	1.57694			N/A
4/9/2019	EURAUD	11:30:00 AM	1.57629	1.57659			N/A
4/9/2019	EURAUD	1:30:00 PM	1.57638	1.57672			N/A
4/9/2019	EURAUD	3:30:00 PM	1.57706	1.57723			N/A
4/9/2019	EURAUD.fx	9:30:00 AM	1.57696	1.57671			N/A
4/9/2019	EURAUD.fx	11:30:00 AM	1.57649	1.57638			N/A
4/9/2019	EURAUD.fx	1:30:00 PM	1.57656	1.5765			N/A
4/9/2019	EURAUD.fx	3:30:00 PM	1.57726	1.577			N/A
4/9/2019	EURCAD	9:30:00 AM	1.49874	1.49938			N/A
4/9/2019	EURCAD	11:30:00 AM	1.49903	1.49963			N/A
4/9/2019	EURCAD	1:30:00 PM	1.49913	1.49998			N/A
4/9/2019	EURCAD	3:30:00 PM	1.4984	1.49885			N/A
4/9/2019	EURCAD.fx	9:30:00 AM	1.49915	1.49896			N/A
4/9/2019	EURCAD.fx	11:30:00 AM	1.49945	1.4992			N/A
4/9/2019	EURCAD.fx	1:30:00 PM	1.49954	1.49957			N/A
4/9/2019	EURCAD.fx	3:30:00 PM	1.49881	1.49843			N/A
4/9/2019	EURCHF	9:30:00 AM	1.12491	1.12504			N/A
4/9/2019	EURCHF	11:30:00 AM	1.12575	1.12567			N/A
4/9/2019	EURCHF	1:30:00 PM	1.12669	1.12649			N/A
4/9/2019	EURCHF	3:30:00 PM	1.12707	1.12705			N/A
4/9/2019	EURCHF.fx	9:30:00 AM	1.12497	1.12499			N/A
4/9/2019	EURCHF.fx	11:30:00 AM	1.12579	1.12561			N/A
4/9/2019	EURCHF.fx	1:30:00 PM	1.12674	1.12642			N/A
4/9/2019	EURCHF.fx	3:30:00 PM	1.12712	1.12699			N/A
4/9/2019	EURCZK	9:30:00 AM	25.578	25.618			N/A
4/9/2019	EURCZK	11:30:00 AM					N/A

4/9/2019	EURCZK	1:30:00 PM	25.572	25.61			N/A
4/9/2019	EURCZK	3:30:00 PM	25.587	25.623			N/A
4/9/2019	EURDKK	9:30:00 AM	7.4648	7.465			N/A
4/9/2019	EURDKK	11:30:00 AM	7.4642	7.4653			N/A
4/9/2019	EURDKK	1:30:00 PM	7.4644	7.4645			N/A
4/9/2019	EURDKK	3:30:00 PM	7.4644	7.4654			N/A
4/9/2019	EURGBP	9:30:00 AM	0.86155	0.86159			N/A
4/9/2019	EURGBP	11:30:00 AM	0.86218	0.86203			N/A
4/9/2019	EURGBP	1:30:00 PM	0.86192	0.86195			N/A
4/9/2019	EURGBP	3:30:00 PM	0.86282	0.86284			N/A
4/9/2019	EURGBP.fx	9:30:00 AM	0.86159	0.86155			N/A
4/9/2019	EURGBP.fx	11:30:00 AM	0.8622	0.86199			N/A
4/9/2019	EURGBP.fx	1:30:00 PM	0.86195	0.86191			N/A
4/9/2019	EURGBP.fx	3:30:00 PM	0.86287	0.86279			N/A
4/9/2019	EURHKD	9:30:00 AM	8.8313	8.8365			N/A
4/9/2019	EURHKD	11:30:00 AM	8.8398	8.8432			N/A
4/9/2019	EURHKD	1:30:00 PM	8.8409	8.8459			N/A
4/9/2019	EURHKD	3:30:00 PM	8.8426	8.8464			N/A
4/9/2019	EURHKD.fx	9:30:00 AM	8.83381	8.83391			N/A
4/9/2019	EURHKD.fx	11:30:00 AM	8.84231	8.84069			N/A
4/9/2019	EURHKD.fx	1:30:00 PM	8.84338	8.8434			N/A
4/9/2019	EURHKD.fx	3:30:00 PM	8.84513	8.84378			N/A
4/9/2019	EURHUF	9:30:00 AM	320.77	321.5			N/A
4/9/2019	EURHUF	11:30:00 AM	320.79	321.34			N/A
4/9/2019	EURHUF	1:30:00 PM	321.47	322.05			N/A
4/9/2019	EURHUF	3:30:00 PM	321.27	322			N/A
4/9/2019	EURHUF.fx	9:30:00 AM	321.024	321.247			N/A
4/9/2019	EURHUF.fx	11:30:00 AM	321.064	321.074			N/A
4/9/2019	EURHUF.fx	1:30:00 PM	321.751	321.88			N/A
4/9/2019	EURHUF.fx	3:30:00 PM	321.56	321.718			N/A
4/9/2019	EURJPY	9:30:00 AM	125.408	125.417			N/A
4/9/2019	EURJPY	11:30:00 AM	125.413	125.408			N/A
4/9/2019	EURJPY	1:30:00 PM	125.496	125.489			N/A
4/9/2019	EURJPY	3:30:00 PM	125.427	125.428			N/A

4/9/2019	EURJPY.fx	9:30:00 AM	125.41	125.413			N/A
4/9/2019	EURJPY.fx	11:30:00 AM	125.416	125.403			N/A
4/9/2019	EURJPY.fx	1:30:00 PM	125.497	125.486			N/A
4/9/2019	EURJPY.fx	3:30:00 PM	125.429	125.424			N/A
4/9/2019	EURMXN	9:30:00 AM	21.3245	21.3375			N/A
4/9/2019	EURMXN	11:30:00 AM	21.3465	21.3621			N/A
4/9/2019	EURMXN	1:30:00 PM	21.34	21.3562			N/A
4/9/2019	EURMXN	3:30:00 PM	21.324	21.3331			N/A
4/9/2019	EURMXN.fx	9:30:00 AM	21.3325	21.3292			N/A
4/9/2019	EURMXN.fx	11:30:00 AM	21.3548	21.3537			N/A
4/9/2019	EURMXN.fx	1:30:00 PM	21.3482	21.3482			N/A
4/9/2019	EURMXN.fx	3:30:00 PM	21.3325	21.3246			N/A
4/9/2019	EURNOK	9:30:00 AM	9.6311	9.6387			N/A
4/9/2019	EURNOK	11:30:00 AM	9.6176	9.6299			N/A
4/9/2019	EURNOK	1:30:00 PM	9.6126	9.6241			N/A
4/9/2019	EURNOK	3:30:00 PM	9.6129	9.6239			N/A
4/9/2019	EURNOK.fx	9:30:00 AM	9.63699	9.63342			N/A
4/9/2019	EURNOK.fx	11:30:00 AM	9.62308	9.6244			N/A
4/9/2019	EURNOK.fx	1:30:00 PM	9.61809	9.61852			N/A
4/9/2019	EURNOK.fx	3:30:00 PM	9.61821	9.61849			N/A
4/9/2019	EURNZD	9:30:00 AM	1.66936	1.66998			N/A
4/9/2019	EURNZD	11:30:00 AM	1.66849	1.66904			N/A
4/9/2019	EURNZD	1:30:00 PM	1.66973	1.67054			N/A
4/9/2019	EURNZD	3:30:00 PM	1.67136	1.67197			N/A
4/9/2019	EURNZD.fx	9:30:00 AM	1.66978	1.66954			N/A
4/9/2019	EURNZD.fx	11:30:00 AM	1.66891	1.6686			N/A
4/9/2019	EURNZD.fx	1:30:00 PM	1.67015	1.67011			N/A
4/9/2019	EURNZD.fx	3:30:00 PM	1.67177	1.67154			N/A
4/9/2019	EURPLN	9:30:00 AM	4.2857	4.2889			N/A
4/9/2019	EURPLN	11:30:00 AM	4.2847	4.2881			N/A
4/9/2019	EURPLN	1:30:00 PM	4.2866	4.2895			N/A
4/9/2019	EURPLN	3:30:00 PM	4.2857	4.289			N/A
4/9/2019	EURPLN.fx	9:30:00 AM	4.28497	4.28971			N/A
4/9/2019	EURPLN.fx	11:30:00 AM	4.28397	4.28872			N/A

4/9/2019	EURPLN.fx	1:30:00 PM	4.28587	4.29022			N/A
4/9/2019	EURPLN.fx	3:30:00 PM	4.2851	4.28952			N/A
4/9/2019	EURRUB	9:30:00 AM					N/A
4/9/2019	EURRUB	11:30:00 AM	72.634	73.068			N/A
4/9/2019	EURRUB	1:30:00 PM	72.601	73.039			N/A
4/9/2019	EURRUB	3:30:00 PM	72.679	73.097			N/A
4/9/2019	EURSEK	9:30:00 AM	10.4305	10.434			N/A
4/9/2019	EURSEK	11:30:00 AM	10.4204	10.4251			N/A
4/9/2019	EURSEK	1:30:00 PM	10.4132	10.4173			N/A
4/9/2019	EURSEK	3:30:00 PM	10.4188	10.4191			N/A
4/9/2019	EURSEK.fx	9:30:00 AM	10.43195	10.43227			N/A
4/9/2019	EURSEK.fx	11:30:00 AM	10.42204	10.42344			N/A
4/9/2019	EURSEK.fx	1:30:00 PM	10.41471	10.41561			N/A
4/9/2019	EURSEK.fx	3:30:00 PM	10.4203	10.41757			N/A
4/9/2019	EURSGD	9:30:00 AM	1.5248	1.5256			N/A
4/9/2019	EURSGD	11:30:00 AM	1.5251	1.5258			N/A
4/9/2019	EURSGD	1:30:00 PM	1.5245	1.5253			N/A
4/9/2019	EURSGD	3:30:00 PM	1.525	1.5257			N/A
4/9/2019	EURSGD.fx	9:30:00 AM	1.52515	1.52522			N/A
4/9/2019	EURSGD.fx	11:30:00 AM	1.52554	1.52539			N/A
4/9/2019	EURSGD.fx	1:30:00 PM	1.52487	1.52488			N/A
4/9/2019	EURSGD.fx	3:30:00 PM	1.52533	1.52526			N/A
4/9/2019	EURUSD	9:30:00 AM	1.12618	1.12629			N/A
4/9/2019	EURUSD	11:30:00 AM	1.1271	1.12699	10	1000	N/A
4/9/2019	EURUSD	1:30:00 PM	1.12737	1.12746			N/A
4/9/2019	EURUSD	3:30:00 PM	1.12767	1.12758			N/A
4/9/2019	EURUSD.fx	9:30:00 AM	1.12638	1.12639			N/A
4/9/2019	EURUSD.fx	11:30:00 AM	1.1273	1.12709			N/A
4/9/2019	EURUSD.fx	1:30:00 PM	1.12758	1.12756			N/A
4/9/2019	EURUSD.fx	3:30:00 PM	1.12787	1.12768			N/A
4/9/2019	EURZAR	9:30:00 AM	15.8931	15.8972			N/A
4/9/2019	EURZAR	11:30:00 AM	15.8393	15.8556			N/A
4/9/2019	EURZAR	1:30:00 PM	15.8056	15.825			N/A
4/9/2019	EURZAR	3:30:00 PM	15.816	15.8335			N/A

4/9/2019	EURZAR.fx	9:30:00 AM	15.89274	15.89749			N/A
4/9/2019	EURZAR.fx	11:30:00 AM	15.83919	15.85627			N/A
4/9/2019	EURZAR.fx	1:30:00 PM	15.80523	15.82463			N/A
4/9/2019	EURZAR.fx	3:30:00 PM	15.81562	15.83364			N/A
4/9/2019	GBPAUD	9:30:00 AM	1.83074	1.83106			N/A
4/9/2019	GBPAUD	11:30:00 AM	1.82917	1.82952			N/A
4/9/2019	GBPAUD	1:30:00 PM	1.82944	1.82998			N/A
4/9/2019	GBPAUD	3:30:00 PM	1.82837	1.82871			N/A
4/9/2019	GBPAUD.fx	9:30:00 AM	1.83113	1.83065			N/A
4/9/2019	GBPAUD.fx	11:30:00 AM	1.82954	1.82913			N/A
4/9/2019	GBPAUD.fx	1:30:00 PM	1.82982	1.8296			N/A
4/9/2019	GBPAUD.fx	3:30:00 PM	1.82874	1.82831			N/A
4/9/2019	GBPCAD	9:30:00 AM	1.73972	1.74008			N/A
4/9/2019	GBPCAD	11:30:00 AM	1.73894	1.73943			N/A
4/9/2019	GBPCAD	1:30:00 PM	1.73948	1.74006			N/A
4/9/2019	GBPCAD	3:30:00 PM	1.73676	1.73699			N/A
4/9/2019	GBPCAD.fx	9:30:00 AM	1.74009	1.73971			N/A
4/9/2019	GBPCAD.fx	11:30:00 AM	1.73932	1.73906			N/A
4/9/2019	GBPCAD.fx	1:30:00 PM	1.73985	1.73969			N/A
4/9/2019	GBPCAD.fx	3:30:00 PM	1.73714	1.73661			N/A
4/9/2019	GBPCHF	9:30:00 AM	1.30559	1.30594			N/A
4/9/2019	GBPCHF	11:30:00 AM	1.30581	1.30589			N/A
4/9/2019	GBPCHF	1:30:00 PM	1.30703	1.30701			N/A
4/9/2019	GBPCHF	3:30:00 PM	1.30617	1.30636			N/A
4/9/2019	GBPCHF.fx	9:30:00 AM	1.30577	1.30575			N/A
4/9/2019	GBPCHF.fx	11:30:00 AM	1.306	1.30569			N/A
4/9/2019	GBPCHF.fx	1:30:00 PM	1.3072	1.30683			N/A
4/9/2019	GBPCHF.fx	3:30:00 PM	1.30635	1.30617			N/A
4/9/2019	GBPCZK	9:30:00 AM	29.7	29.72			N/A
4/9/2019	GBPCZK	11:30:00 AM	29.687	29.701			N/A
4/9/2019	GBPCZK	1:30:00 PM	29.681	29.699			N/A
4/9/2019	GBPCZK	3:30:00 PM	29.664	29.683			N/A
4/9/2019	GBPDKK	9:30:00 AM	8.66	8.671			N/A
4/9/2019	GBPDKK	11:30:00 AM	8.656	8.664			N/A

4/9/2019	GBPDKK	1:30:00 PM	8.656	8.667			N/A
4/9/2019	GBPDKK	3:30:00 PM	8.647	8.657			N/A
4/9/2019	GBPDKK.fx	9:30:00 AM	8.6586	8.6712			N/A
4/9/2019	GBPDKK.fx	11:30:00 AM	8.6539	8.6641			N/A
4/9/2019	GBPDKK.fx	1:30:00 PM	8.6546	8.667			N/A
4/9/2019	GBPDKK.fx	3:30:00 PM	8.6455	8.658			N/A
4/9/2019	GBPHKD	9:30:00 AM	10.2484	10.2532			N/A
4/9/2019	GBPHKD	11:30:00 AM	10.2526	10.2556			N/A
4/9/2019	GBPHKD	1:30:00 PM	10.2558	10.2591			N/A
4/9/2019	GBPHKD	3:30:00 PM	10.2465	10.2503			N/A
4/9/2019	GBPHUF	9:30:00 AM	372.35	372.81			N/A
4/9/2019	GBPHUF	11:30:00 AM	372.04	372.42			N/A
4/9/2019	GBPHUF	1:30:00 PM	373.03	373.37			N/A
4/9/2019	GBPHUF	3:30:00 PM	372.41	372.85			N/A
4/9/2019	GBPJPY	9:30:00 AM	145.551	145.577			N/A
4/9/2019	GBPJPY	11:30:00 AM	145.467	145.47			N/A
4/9/2019	GBPJPY	1:30:00 PM	145.584	145.594			N/A
4/9/2019	GBPJPY	3:30:00 PM	145.358	145.375			N/A
4/9/2019	GBPJPY.fx	9:30:00 AM	145.568	145.558			N/A
4/9/2019	GBPJPY.fx	11:30:00 AM	145.485	145.449			N/A
4/9/2019	GBPJPY.fx	1:30:00 PM	145.6	145.576			N/A
4/9/2019	GBPJPY.fx	3:30:00 PM	145.375	145.356			N/A
4/9/2019	GBPMXN	9:30:00 AM	24.7492	24.7572			N/A
4/9/2019	GBPMXN	11:30:00 AM	24.7572	24.7691			N/A
4/9/2019	GBPMXN	1:30:00 PM	24.7572	24.7661			N/A
4/9/2019	GBPMXN	3:30:00 PM	24.7107	24.7143			N/A
4/9/2019	GBPNOK	9:30:00 AM	11.181	11.1856			N/A
4/9/2019	GBPNOK	11:30:00 AM	11.1599	11.1676			N/A
4/9/2019	GBPNOK	1:30:00 PM	11.1545	11.1645			N/A
4/9/2019	GBPNOK	3:30:00 PM	11.1428	11.1523			N/A
4/9/2019	GBPNOK.fx	9:30:00 AM	11.18567	11.18062			N/A
4/9/2019	GBPNOK.fx	11:30:00 AM	11.16482	11.16268			N/A
4/9/2019	GBPNOK.fx	1:30:00 PM	11.15941	11.15949			N/A
4/9/2019	GBPNOK.fx	3:30:00 PM	11.14751	11.14748			N/A

4/9/2019	GBPNZD	9:30:00 AM	1.93778	1.93814			N/A
4/9/2019	GBPNZD	11:30:00 AM	1.93556	1.93597			N/A
4/9/2019	GBPNZD	1:30:00 PM	1.93731	1.93786			N/A
4/9/2019	GBPNZD	3:30:00 PM	1.93717	1.93754			N/A
4/9/2019	GBPNZD.fx	9:30:00 AM	1.93815	1.93777			N/A
4/9/2019	GBPNZD.fx	11:30:00 AM	1.93595	1.93561			N/A
4/9/2019	GBPNZD.fx	1:30:00 PM	1.93763	1.93749			N/A
4/9/2019	GBPNZD.fx	3:30:00 PM	1.93751	1.93713			N/A
4/9/2019	GBPPLN	9:30:00 AM	4.9756	4.9768			N/A
4/9/2019	GBPPLN	11:30:00 AM	4.9719	4.9722			N/A
4/9/2019	GBPPLN	1:30:00 PM	4.9742	4.9755			N/A
4/9/2019	GBPPLN	3:30:00 PM	4.9683	4.9699			N/A
4/9/2019	GBPPLN.fx	9:30:00 AM	4.97338	4.97912			N/A
4/9/2019	GBPPLN.fx	11:30:00 AM	4.96973	4.97433			N/A
4/9/2019	GBPPLN.fx	1:30:00 PM	4.97202	4.97775			N/A
4/9/2019	GBPPLN.fx	3:30:00 PM	4.96619	4.97199			N/A
4/9/2019	GBPSEK	9:30:00 AM	12.1051	12.1112			N/A
4/9/2019	GBPSEK	11:30:00 AM	12.0872	12.0926			N/A
4/9/2019	GBPSEK	1:30:00 PM	12.0804	12.0879			N/A
4/9/2019	GBPSEK	3:30:00 PM	12.0733	12.0781			N/A
4/9/2019	GBPSEK.fx	9:30:00 AM	12.10136	12.11534			N/A
4/9/2019	GBPSEK.fx	11:30:00 AM	12.08335	12.09662			N/A
4/9/2019	GBPSEK.fx	1:30:00 PM	12.07648	12.09189			N/A
4/9/2019	GBPSEK.fx	3:30:00 PM	12.06976	12.08209			N/A
4/9/2019	GBPSGD	9:30:00 AM	1.77	1.7706			N/A
4/9/2019	GBPSGD	11:30:00 AM	1.7692	1.7697			N/A
4/9/2019	GBPSGD	1:30:00 PM	1.7689	1.7695			N/A
4/9/2019	GBPSGD	3:30:00 PM	1.7676	1.768			N/A
4/9/2019	GBPSGD.fx	9:30:00 AM	1.76811	1.77238			N/A
4/9/2019	GBPSGD.fx	11:30:00 AM	1.76744	1.7715			N/A
4/9/2019	GBPSGD.fx	1:30:00 PM	1.7671	1.77124			N/A
4/9/2019	GBPSGD.fx	3:30:00 PM	1.76576	1.76978			N/A
4/9/2019	GBPUSD	9:30:00 AM	1.30739	1.30732			N/A
4/9/2019	GBPUSD	11:30:00 AM	1.30759	1.30743			N/A

4/9/2019	GBPUSD	1:30:00 PM	1.30819	1.30808			N/A
4/9/2019	GBPUSD	3:30:00 PM	1.30721	1.30691			N/A
4/9/2019	GBPUSD.fx	9:30:00 AM	1.30744	1.30725			N/A
4/9/2019	GBPUSD.fx	11:30:00 AM	1.30762	1.30738			N/A
4/9/2019	GBPUSD.fx	1:30:00 PM	1.30824	1.30803			N/A
4/9/2019	GBPUSD.fx	3:30:00 PM	1.30724	1.30686			N/A
4/9/2019	GBPZAR	9:30:00 AM	18.4458	18.4549			N/A
4/9/2019	GBPZAR	11:30:00 AM	18.3738	18.3932			N/A
4/9/2019	GBPZAR	1:30:00 PM	18.3359	18.3628			N/A
4/9/2019	GBPZAR	3:30:00 PM	18.3281	18.3537			N/A
4/9/2019	GBPZAR.fx	9:30:00 AM	18.4529	18.4477			N/A
4/9/2019	GBPZAR.fx	11:30:00 AM	18.382	18.3858			N/A
4/9/2019	GBPZAR.fx	1:30:00 PM	18.3434	18.354			N/A
4/9/2019	GBPZAR.fx	3:30:00 PM	18.3346	18.3468			N/A
4/9/2019	GOLD	9:30:00 AM	1298.27	1298.52			N/A
4/9/2019	GOLD	11:30:00 AM	1301.63	1301.92			N/A
4/9/2019	GOLD	1:30:00 PM	1301.94	1302.24			N/A
4/9/2019	GOLD	3:30:00 PM	1305.15	1304.91			N/A
4/9/2019	HKDJPY	9:30:00 AM	14.2	14.21			N/A
4/9/2019	HKDJPY	11:30:00 AM	14.18	14.19			N/A
4/9/2019	HKDJPY	1:30:00 PM	14.18	14.2			N/A
4/9/2019	HKDJPY	3:30:00 PM	14.18	14.19			N/A
4/9/2019	HKDJPY.fx	9:30:00 AM	14.192	14.199			N/A
4/9/2019	HKDJPY.fx	11:30:00 AM	14.18	14.186			N/A
4/9/2019	HKDJPY.fx	1:30:00 PM	14.186	14.193			N/A
4/9/2019	HKDJPY.fx	3:30:00 PM	14.179	14.182			N/A
4/9/2019	HUFJPY	9:30:00 AM	0.3909	0.3912			N/A
4/9/2019	HUFJPY	11:30:00 AM	0.3909	0.3912			N/A
4/9/2019	HUFJPY	1:30:00 PM	0.3901	0.3904			N/A
4/9/2019	HUFJPY	3:30:00 PM	0.3904	0.3907			N/A
4/9/2019	JP225.i	9:30:00 AM	21739.9	21759.9			N/A
4/9/2019	JP225.i	11:30:00 AM	21729.9	21744.9			N/A
4/9/2019	JP225.i	1:30:00 PM	21749.9	21769.07			N/A
4/9/2019	JP225.i	3:30:00 PM	21719.9	21729.9			N/A

4/9/2019	MXNJPY	9:30:00 AM	5.88	5.89			N/A
4/9/2019	MXNJPY	11:30:00 AM					N/A
4/9/2019	MXNJPY	1:30:00 PM	5.88	5.89			N/A
4/9/2019	MXNJPY	3:30:00 PM	5.88	5.89			N/A
4/9/2019	NASDAQ.i	9:30:00 AM					N/A
4/9/2019	NASDAQ.i	11:30:00 AM					N/A
4/9/2019	NASDAQ.i	1:30:00 PM					N/A
4/9/2019	NASDAQ.i	3:30:00 PM					N/A
4/9/2019	NOKJPY	9:30:00 AM	13.01	13.03			N/A
4/9/2019	NOKJPY	11:30:00 AM					N/A
4/9/2019	NOKJPY	1:30:00 PM	13.03	13.07			N/A
4/9/2019	NOKJPY	3:30:00 PM	13.03	13.06			N/A
4/9/2019	NOKJPY.fx	9:30:00 AM	13.016	13.018			N/A
4/9/2019	NOKJPY.fx	11:30:00 AM	13.028	13.034			N/A
4/9/2019	NOKJPY.fx	1:30:00 PM	13.044	13.049			N/A
4/9/2019	NOKJPY.fx	3:30:00 PM	13.037	13.044			N/A
4/9/2019	NZDCAD	9:30:00 AM	0.8975	0.89813			N/A
4/9/2019	NZDCAD	11:30:00 AM	0.89813	0.89875			N/A
4/9/2019	NZDCAD	1:30:00 PM	0.89752	0.89821			N/A
4/9/2019	NZDCAD	3:30:00 PM	0.89622	0.89679			N/A
4/9/2019	NZDCAD.fx	9:30:00 AM	0.89782	0.8978			N/A
4/9/2019	NZDCAD.fx	11:30:00 AM	0.89847	0.89842			N/A
4/9/2019	NZDCAD.fx	1:30:00 PM	0.89787	0.89786			N/A
4/9/2019	NZDCAD.fx	3:30:00 PM	0.89654	0.89644			N/A
4/9/2019	NZDCHF	9:30:00 AM	0.67347	0.67412			N/A
4/9/2019	NZDCHF	11:30:00 AM	0.67429	0.67492			N/A
4/9/2019	NZDCHF	1:30:00 PM	0.67426	0.67486			N/A
4/9/2019	NZDCHF	3:30:00 PM	0.67396	0.6745			N/A
4/9/2019	NZDCHF.fx	9:30:00 AM	0.6738	0.67377			N/A
4/9/2019	NZDCHF.fx	11:30:00 AM	0.67463	0.67457			N/A
4/9/2019	NZDCHF.fx	1:30:00 PM	0.67459	0.67451			N/A
4/9/2019	NZDCHF.fx	3:30:00 PM	0.67429	0.67415			N/A
4/9/2019	NZDCZK	9:30:00 AM	15.325	15.336			N/A
4/9/2019	NZDCZK	11:30:00 AM	15.335	15.344			N/A

4/9/2019	NZDCZK	1:30:00 PM	15.317	15.328			N/A
4/9/2019	NZDCZK	3:30:00 PM	15.31	15.321			N/A
4/9/2019	NZDDKK	9:30:00 AM					N/A
4/9/2019	NZDDKK	11:30:00 AM					N/A
4/9/2019	NZDDKK	1:30:00 PM	4.468	4.471			N/A
4/9/2019	NZDDKK	3:30:00 PM					N/A
4/9/2019	NZDHKD	9:30:00 AM	5.2876	5.2898			N/A
4/9/2019	NZDHKD	11:30:00 AM	5.2948	5.2977			N/A
4/9/2019	NZDHKD	1:30:00 PM	5.292	5.2944			N/A
4/9/2019	NZDHKD	3:30:00 PM	5.2874	5.2901			N/A
4/9/2019	NZDHUF	9:30:00 AM	192.11	192.38			N/A
4/9/2019	NZDHUF	11:30:00 AM	192.18	192.4			N/A
4/9/2019	NZDHUF	1:30:00 PM	192.48	192.71			N/A
4/9/2019	NZDHUF	3:30:00 PM	192.16	192.46			N/A
4/9/2019	NZDJPY	9:30:00 AM	75.083	75.143			N/A
4/9/2019	NZDJPY	11:30:00 AM	75.118	75.182			N/A
4/9/2019	NZDJPY	1:30:00 PM	75.105	75.174			N/A
4/9/2019	NZDJPY	3:30:00 PM	75.005	75.065			N/A
4/9/2019	NZDJPY.fx	9:30:00 AM	75.114	75.11			N/A
4/9/2019	NZDJPY.fx	11:30:00 AM	75.149	75.149			N/A
4/9/2019	NZDJPY.fx	1:30:00 PM	75.136	75.141			N/A
4/9/2019	NZDJPY.fx	3:30:00 PM	75.037	75.032			N/A
4/9/2019	NZDMXN	9:30:00 AM	12.7707	12.7724			N/A
4/9/2019	NZDMXN	11:30:00 AM	12.7878	12.7945			N/A
4/9/2019	NZDMXN	1:30:00 PM	12.776	12.7797			N/A
4/9/2019	NZDMXN	3:30:00 PM	12.7538	12.7562			N/A
4/9/2019	NZDNOK	9:30:00 AM	5.7681	5.7695			N/A
4/9/2019	NZDNOK	11:30:00 AM	5.7634	5.7671			N/A
4/9/2019	NZDNOK	1:30:00 PM	5.7559	5.7591			N/A
4/9/2019	NZDNOK	3:30:00 PM	5.7503	5.7538			N/A
4/9/2019	NZDPLN	9:30:00 AM	2.5659	2.5672			N/A
4/9/2019	NZDPLN	11:30:00 AM	2.567	2.5684			N/A
4/9/2019	NZDPLN	1:30:00 PM	2.5661	2.5673			N/A
4/9/2019	NZDPLN	3:30:00 PM	2.5633	2.5647			N/A

4/9/2019	NZDSEK	9:30:00 AM	6.2428	6.2496			N/A
4/9/2019	NZDSEK	11:30:00 AM	6.2407	6.2468			N/A
4/9/2019	NZDSEK	1:30:00 PM	6.2313	6.2373			N/A
4/9/2019	NZDSEK	3:30:00 PM	6.2289	6.2331			N/A
4/9/2019	NZDSGD	9:30:00 AM	0.9132	0.9138			N/A
4/9/2019	NZDSGD	11:30:00 AM	0.9138	0.9145			N/A
4/9/2019	NZDSGD	1:30:00 PM	0.9128	0.9134			N/A
4/9/2019	NZDSGD	3:30:00 PM	0.9122	0.9127			N/A
4/9/2019	NZDSGD.fx	9:30:00 AM	0.91322	0.91377			N/A
4/9/2019	NZDSGD.fx	11:30:00 AM	0.91384	0.91439			N/A
4/9/2019	NZDSGD.fx	1:30:00 PM	0.91278	0.91331			N/A
4/9/2019	NZDSGD.fx	3:30:00 PM	0.91222	0.91268			N/A
4/9/2019	NZDUSD	9:30:00 AM	0.67455	0.67466			N/A
4/9/2019	NZDUSD	11:30:00 AM	0.67534	0.67545			N/A
4/9/2019	NZDUSD	1:30:00 PM	0.67501	0.67514			N/A
4/9/2019	NZDUSD	3:30:00 PM	0.6746	0.6746			N/A
4/9/2019	NZDUSD.fx	9:30:00 AM	0.67462	0.6746			N/A
4/9/2019	NZDUSD.fx	11:30:00 AM	0.67541	0.67547			N/A
4/9/2019	NZDUSD.fx	1:30:00 PM	0.67509	0.67515			N/A
4/9/2019	NZDUSD.fx	3:30:00 PM	0.67467	0.67461			N/A
4/9/2019	NZDZAR	9:30:00 AM	9.5099	9.5195			N/A
4/9/2019	NZDZAR	11:30:00 AM	9.4843	9.4984			N/A
4/9/2019	NZDZAR	1:30:00 PM	9.4564	9.4727			N/A
4/9/2019	NZDZAR	3:30:00 PM	9.4526	9.4701			N/A
4/9/2019	SEKJPY	9:30:00 AM					N/A
4/9/2019	SEKJPY	11:30:00 AM	12.03	12.05			N/A
4/9/2019	SEKJPY	1:30:00 PM	12.05	12.06			N/A
4/9/2019	SEKJPY	3:30:00 PM	12.04	12.05			N/A
4/9/2019	SEKJPY.fx	9:30:00 AM	12.012	12.031			N/A
4/9/2019	SEKJPY.fx	11:30:00 AM	12.023	12.041			N/A
4/9/2019	SEKJPY.fx	1:30:00 PM	12.04	12.057			N/A
4/9/2019	SEKJPY.fx	3:30:00 PM	12.03	12.046			N/A
4/9/2019	SGDJPY	9:30:00 AM	82.22	82.23			N/A
4/9/2019	SGDJPY	11:30:00 AM	82.21	82.21			N/A

4/9/2019	SGDJPY	1:30:00 PM	82.31	82.29			N/A
4/9/2019	SGDJPY	3:30:00 PM	82.21	82.22			N/A
4/9/2019	SILVER	9:30:00 AM	15.03	15.41			N/A
4/9/2019	SILVER	11:30:00 AM	15.08	15.46			N/A
4/9/2019	SILVER	1:30:00 PM	15.1	15.48			N/A
4/9/2019	SILVER	3:30:00 PM	15.13	15.5			N/A
4/9/2019	SPX500.i	9:30:00 AM	2890.84	2891.64			N/A
4/9/2019	SPX500.i	11:30:00 AM	2891.59	2892.39			N/A
4/9/2019	SPX500.i	1:30:00 PM	2892.34	2893.64			N/A
4/9/2019	SPX500.i	3:30:00 PM	2887.84	2888.89			N/A
4/9/2019	UK100.i	9:30:00 AM	7443.24	7443.16			N/A
4/9/2019	UK100.i	11:30:00 AM	7457.49	7456.57			N/A
4/9/2019	UK100.i	1:30:00 PM	7473.07	7474.99			N/A
4/9/2019	UK100.i	3:30:00 PM	7449.07	7447.16			N/A
4/9/2019	USDCAD	9:30:00 AM	1.33098	1.33082			N/A
4/9/2019	USDCAD	11:30:00 AM	1.33012	1.33021			N/A
4/9/2019	USDCAD	1:30:00 PM	1.32991	1.33002			N/A
4/9/2019	USDCAD	3:30:00 PM	1.32908	1.32888			N/A
4/9/2019	USDCAD.fx	9:30:00 AM	1.331	1.3308			N/A
4/9/2019	USDCAD.fx	11:30:00 AM	1.33016	1.33019			N/A
4/9/2019	USDCAD.fx	1:30:00 PM	1.32993	1.32999			N/A
4/9/2019	USDCAD.fx	3:30:00 PM	1.32912	1.32885			N/A
4/9/2019	USDCHF	9:30:00 AM	0.99871	0.99882			N/A
4/9/2019	USDCHF	11:30:00 AM	0.99877	0.99871			N/A
4/9/2019	USDCHF	1:30:00 PM	0.99919	0.99911			N/A
4/9/2019	USDCHF	3:30:00 PM	0.99947	0.99931			N/A
4/9/2019	USDCHF.fx	9:30:00 AM	0.99876	0.99874			N/A
4/9/2019	USDCHF.fx	11:30:00 AM	0.99881	0.99865			N/A
4/9/2019	USDCHF.fx	1:30:00 PM	0.99924	0.99905			N/A
4/9/2019	USDCHF.fx	3:30:00 PM	0.99951	0.99925			N/A
4/9/2019	USDCZK	9:30:00 AM	22.734	22.758			N/A
4/9/2019	USDCZK	11:30:00 AM	22.72	22.738			N/A
4/9/2019	USDCZK	1:30:00 PM	22.703	22.726			N/A
4/9/2019	USDCZK	3:30:00 PM	22.713	22.731			N/A

4/9/2019	USDCZK.fx	9:30:00 AM	22.7428	22.749			N/A
4/9/2019	USDCZK.fx	11:30:00 AM	22.728	22.7292			N/A
4/9/2019	USDCZK.fx	1:30:00 PM	22.7113	22.7176			N/A
4/9/2019	USDCZK.fx	3:30:00 PM	22.7223	22.7227			N/A
4/9/2019	USDDKK	9:30:00 AM	6.6265	6.6306			N/A
4/9/2019	USDDKK	11:30:00 AM	6.6221	6.6249			N/A
4/9/2019	USDDKK	1:30:00 PM	6.6194	6.6233			N/A
4/9/2019	USDDKK	3:30:00 PM	6.6185	6.6214			N/A
4/9/2019	USDDKK.fx	9:30:00 AM	6.62699	6.62844			N/A
4/9/2019	USDDKK.fx	11:30:00 AM	6.62244	6.62262			N/A
4/9/2019	USDDKK.fx	1:30:00 PM	6.61988	6.62116			N/A
4/9/2019	USDDKK.fx	3:30:00 PM	6.61913	6.61942			N/A
4/9/2019	USDHKD	9:30:00 AM	7.8427	7.8429			N/A
4/9/2019	USDHKD	11:30:00 AM	7.8436	7.8439			N/A
4/9/2019	USDHKD	1:30:00 PM	7.8424	7.8427			N/A
4/9/2019	USDHKD	3:30:00 PM	7.8411	7.8416			N/A
4/9/2019	USDHKD.fx	9:30:00 AM	7.84259	7.84286			N/A
4/9/2019	USDHKD.fx	11:30:00 AM	7.84354	7.84404			N/A
4/9/2019	USDHKD.fx	1:30:00 PM					N/A
4/9/2019	USDHKD.fx	3:30:00 PM					N/A
4/9/2019	USDHUF	9:30:00 AM	284.87	285.33			N/A
4/9/2019	USDHUF	11:30:00 AM	284.63	285.02			N/A
4/9/2019	USDHUF	1:30:00 PM	285.2	285.63			N/A
4/9/2019	USDHUF	3:30:00 PM	284.99	285.42			N/A
4/9/2019	USDHUF.fx	9:30:00 AM	285.057	285.145			N/A
4/9/2019	USDHUF.fx	11:30:00 AM	284.846	284.825			N/A
4/9/2019	USDHUF.fx	1:30:00 PM	285.408	285.427			N/A
4/9/2019	USDHUF.fx	3:30:00 PM	285.205	285.205			N/A
4/9/2019	USDINR	9:30:00 AM	64.53	74.51			N/A
4/9/2019	USDINR	11:30:00 AM	64.59	74.57			N/A
4/9/2019	USDINR	1:30:00 PM					N/A
4/9/2019	USDINR	3:30:00 PM					N/A
4/9/2019	USDJPY	9:30:00 AM	111.334	111.346			N/A
4/9/2019	USDJPY	11:30:00 AM	111.256	111.257	1000	1000	N/A

4/9/2019	USDJPY	1:30:00 PM	111.292	111.299			N/A
4/9/2019	USDJPY	3:30:00 PM	111.227	111.207			N/A
4/9/2019	USDJPY.fx	9:30:00 AM	111.34	111.339			N/A
4/9/2019	USDJPY.fx	11:30:00 AM	111.262	111.25			N/A
4/9/2019	USDJPY.fx	1:30:00 PM	111.298	111.291			N/A
4/9/2019	USDJPY.fx	3:30:00 PM	111.233	111.199			N/A
4/9/2019	USDMXN	9:30:00 AM	18.938	18.939			N/A
4/9/2019	USDMXN	11:30:00 AM	18.941	18.949			N/A
4/9/2019	USDMXN	1:30:00 PM	18.931	18.937			N/A
4/9/2019	USDMXN	3:30:00 PM	18.912	18.914			N/A
4/9/2019	USDMXN.f	9:30:00 AM	18.9409	18.9348			N/A
4/9/2019	USDMXN.f	11:30:00 AM	18.9445	18.9451			N/A
4/9/2019	USDMXN.f	1:30:00 PM	18.9346	18.9332			N/A
4/9/2019	USDMXN.f	3:30:00 PM	18.9157	18.9102			N/A
4/9/2019	USDNOK	9:30:00 AM	8.5524	8.5565			N/A
4/9/2019	USDNOK	11:30:00 AM	8.5349	8.542			N/A
4/9/2019	USDNOK	1:30:00 PM	8.5267	8.5349			N/A
4/9/2019	USDNOK	3:30:00 PM	8.5258	8.5319			N/A
4/9/2019	USDNOK.fx	9:30:00 AM	8.5561	8.55202			N/A
4/9/2019	USDNOK.fx	11:30:00 AM	8.53876	8.53755			N/A
4/9/2019	USDNOK.fx	1:30:00 PM	8.53066	8.53047			N/A
4/9/2019	USDNOK.fx	3:30:00 PM	8.52965	8.52756			N/A
4/9/2019	USDPLN	9:30:00 AM	3.8055	3.8071			N/A
4/9/2019	USDPLN	11:30:00 AM	3.8022	3.8032			N/A
4/9/2019	USDPLN	1:30:00 PM	3.8024	3.8036			N/A
4/9/2019	USDPLN	3:30:00 PM	3.8012	3.8022			N/A
4/9/2019	USDPLN.fx	9:30:00 AM	3.80461	3.80803			N/A
4/9/2019	USDPLN.fx	11:30:00 AM	3.80136	3.80403			N/A
4/9/2019	USDPLN.fx	1:30:00 PM	3.80155	3.80447			N/A
4/9/2019	USDPLN.fx	3:30:00 PM	3.80039	3.80301			N/A
4/9/2019	USDRUB	9:30:00 AM					N/A
4/9/2019	USDRUB	11:30:00 AM	64.549	64.942			N/A
4/9/2019	USDRUB	1:30:00 PM	64.503	64.887			N/A
4/9/2019	USDRUB	3:30:00 PM	64.552	64.936			N/A

4/9/2019	USDSEK	9:30:00 AM	9.2595	9.2631			N/A
4/9/2019	USDSEK	11:30:00 AM	9.2447	9.2477			N/A
4/9/2019	USDSEK	1:30:00 PM	9.2349	9.2384			N/A
4/9/2019	USDSEK	3:30:00 PM	9.2391	9.238			N/A
4/9/2019	USDSEK.fx	9:30:00 AM	9.26218	9.26136			N/A
4/9/2019	USDSEK.fx	11:30:00 AM	9.24713	9.24587			N/A
4/9/2019	USDSEK.fx	1:30:00 PM	9.23739	9.23669			N/A
4/9/2019	USDSEK.fx	3:30:00 PM	9.24143	9.23625			N/A
4/9/2019	USDSGD	9:30:00 AM	1.3539	1.3543			N/A
4/9/2019	USDSGD	11:30:00 AM	1.3532	1.3535			N/A
4/9/2019	USDSGD	1:30:00 PM	1.3523	1.3526			N/A
4/9/2019	USDSGD	3:30:00 PM	1.3523	1.3526			N/A
4/9/2019	USDSGD.fx	9:30:00 AM	1.35384	1.35429			N/A
4/9/2019	USDSGD.fx	11:30:00 AM	1.3531	1.35354			N/A
4/9/2019	USDSGD.fx	1:30:00 PM	1.35218	1.3526			N/A
4/9/2019	USDSGD.fx	3:30:00 PM	1.35224	1.35272			N/A
4/9/2019	USDZAR	9:30:00 AM	14.1101	14.1148			N/A
4/9/2019	USDZAR	11:30:00 AM	14.0534	14.0666			N/A
4/9/2019	USDZAR	1:30:00 PM	14.0176	14.0348			N/A
4/9/2019	USDZAR	3:30:00 PM	14.0228	14.0416			N/A
4/9/2019	USDZAR.fx	9:30:00 AM					N/A
4/9/2019	USDZAR.fx	11:30:00 AM					N/A
4/9/2019	USDZAR.fx	1:30:00 PM					N/A
4/9/2019	USDZAR.fx	3:30:00 PM					N/A
4/9/2019	XAUUSD	9:30:00 AM	1298.27	1298.52			N/A
4/9/2019	XAUUSD	11:30:00 AM	1301.64	1301.92			N/A
4/9/2019	XAUUSD	1:30:00 PM	1301.94	1302.24			N/A
4/9/2019	XAUUSD	3:30:00 PM	1305.14	1304.91			N/A
4/9/2019	ZARJPY	9:30:00 AM	7.88	7.89			N/A
4/9/2019	ZARJPY	11:30:00 AM	7.89	7.92			N/A
4/9/2019	ZARJPY	1:30:00 PM	7.92	7.93			N/A
4/9/2019	ZARJPY	3:30:00 PM	7.9	7.93			N/A
4/9/2019	ZARJPY.fx	9:30:00 AM	7.891	7.888			N/A
4/9/2019	ZARJPY.fx	11:30:00 AM	7.91	7.914			N/A

4/9/2019	ZARJPY.fx	1:30:00 PM	7.933	7.936			N/A
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4/10/2019	#Ripple	11:30:00 AM	0.3543	0.3638			N/A
4/10/2019	#Ripple	1:30:00 PM					N/A
4/10/2019	#Ripple	3:30:00 PM	0.3538	0.3637			N/A
4/10/2019	#S	9:30:00 AM					N/A
4/10/2019	#S	11:30:00 AM					N/A
4/10/2019	#S	1:30:00 PM					N/A
4/10/2019	#S	3:30:00 PM					N/A
4/10/2019	#SBUX	9:30:00 AM					N/A
4/10/2019	#SBUX	11:30:00 AM					N/A
4/10/2019	#SBUX	1:30:00 PM					N/A
4/10/2019	#SBUX	3:30:00 PM					N/A
4/10/2019	#SNE	9:30:00 AM					N/A
4/10/2019	#SNE	11:30:00 AM					N/A
4/10/2019	#SNE	1:30:00 PM					N/A
4/10/2019	#SNE	3:30:00 PM					N/A
4/10/2019	#SPY	9:30:00 AM					N/A
4/10/2019	#SPY	11:30:00 AM					N/A
4/10/2019	#SPY	1:30:00 PM					N/A
4/10/2019	#SPY	3:30:00 PM					N/A
4/10/2019	#T	9:30:00 AM					N/A
4/10/2019	#T	11:30:00 AM					N/A
4/10/2019	#T	1:30:00 PM					N/A
4/10/2019	#T	3:30:00 PM					N/A
4/10/2019	#TEVA	9:30:00 AM					N/A
4/10/2019	#TEVA	11:30:00 AM					N/A
4/10/2019	#TEVA	1:30:00 PM					N/A
4/10/2019	#TEVA	3:30:00 PM					N/A

4/10/2019	#TRI	9:30:00 AM					N/A
4/10/2019	#TRI	11:30:00 AM					N/A
4/10/2019	#TRI	1:30:00 PM					N/A
4/10/2019	#TRI	3:30:00 PM					N/A
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4/10/2019	#TRV	11:30:00 AM					N/A
4/10/2019	#TRV	1:30:00 PM					N/A
4/10/2019	#TRV	3:30:00 PM					N/A
4/10/2019	#TSCO	9:30:00 AM					N/A
4/10/2019	#TSCO	11:30:00 AM					N/A
4/10/2019	#TSCO	1:30:00 PM					N/A
4/10/2019	#TSCO	3:30:00 PM					N/A
4/10/2019	#TSLA	9:30:00 AM					N/A
4/10/2019	#TSLA	11:30:00 AM					N/A
4/10/2019	#TSLA	1:30:00 PM					N/A
4/10/2019	#TSLA	3:30:00 PM					N/A
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4/10/2019	#TWTR	11:30:00 AM					N/A
4/10/2019	#TWTR	1:30:00 PM					N/A
4/10/2019	#TWTR	3:30:00 PM					N/A
4/10/2019	#UBS	9:30:00 AM					N/A
4/10/2019	#UBS	11:30:00 AM					N/A
4/10/2019	#UBS	1:30:00 PM					N/A
4/10/2019	#UBS	3:30:00 PM					N/A
4/10/2019	#UL	9:30:00 AM					N/A
4/10/2019	#UL	11:30:00 AM					N/A
4/10/2019	#UL	1:30:00 PM					N/A
4/10/2019	#UL	3:30:00 PM					N/A
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4/10/2019	#UPS	1:30:00 PM					N/A
4/10/2019	#UPS	3:30:00 PM					N/A
4/10/2019	#UTX	9:30:00 AM					N/A
4/10/2019	#UTX	11:30:00 AM					N/A

4/10/2019	#UTX	1:30:00 PM					N/A
4/10/2019	#UTX	3:30:00 PM					N/A
4/10/2019	#V	9:30:00 AM					N/A
4/10/2019	#V	11:30:00 AM					N/A
4/10/2019	#V	1:30:00 PM					N/A
4/10/2019	#V	3:30:00 PM					N/A
4/10/2019	#VOD	9:30:00 AM					N/A
4/10/2019	#VOD	11:30:00 AM					N/A
4/10/2019	#VOD	1:30:00 PM					N/A
4/10/2019	#VOD	3:30:00 PM					N/A
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4/10/2019	#VZ	11:30:00 AM					N/A
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4/10/2019	#VZ	3:30:00 PM					N/A
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4/10/2019	#WDC	1:30:00 PM					N/A
4/10/2019	#WDC	3:30:00 PM					N/A
4/10/2019	#WFC	9:30:00 AM					N/A
4/10/2019	#WFC	11:30:00 AM					N/A
4/10/2019	#WFC	1:30:00 PM					N/A
4/10/2019	#WFC	3:30:00 PM					N/A
4/10/2019	#WMT	9:30:00 AM					N/A
4/10/2019	#WMT	11:30:00 AM					N/A
4/10/2019	#WMT	1:30:00 PM					N/A
4/10/2019	#WMT	3:30:00 PM					N/A
4/10/2019	#XOM	9:30:00 AM					N/A
4/10/2019	#XOM	11:30:00 AM					N/A
4/10/2019	#XOM	1:30:00 PM					N/A
4/10/2019	#XOM	3:30:00 PM					N/A
4/10/2019	#YHOO	9:30:00 AM					N/A
4/10/2019	#YHOO	11:30:00 AM					N/A
4/10/2019	#YHOO	1:30:00 PM					N/A
4/10/2019	#YHOO	3:30:00 PM					N/A

4/10/2019	#ZNGA	9:30:00 AM					N/A
4/10/2019	#ZNGA	11:30:00 AM					N/A
4/10/2019	#ZNGA	1:30:00 PM					N/A
4/10/2019	#ZNGA	3:30:00 PM					N/A
4/10/2019	AUDCAD	9:30:00 AM	0.95217	0.95275			N/A
4/10/2019	AUDCAD	11:30:00 AM	0.95212	0.95283			N/A
4/10/2019	AUDCAD	1:30:00 PM	0.95237	0.95295			N/A
4/10/2019	AUDCAD	3:30:00 PM	0.95227	0.95244			N/A
4/10/2019	AUDCAD.fx	9:30:00 AM	0.9525	0.95241			N/A
4/10/2019	AUDCAD.fx	11:30:00 AM	0.95244	0.9525			N/A
4/10/2019	AUDCAD.fx	1:30:00 PM	0.95272	0.95261			N/A
4/10/2019	AUDCAD.fx	3:30:00 PM	0.95257	0.95227			N/A
4/10/2019	AUDCHF	9:30:00 AM	0.71464	0.71527			N/A
4/10/2019	AUDCHF	11:30:00 AM	0.71497	0.71566			N/A
4/10/2019	AUDCHF	1:30:00 PM	0.71475	0.71546			N/A
4/10/2019	AUDCHF	3:30:00 PM	0.71398	0.7144			N/A
4/10/2019	AUDCHF.fx	9:30:00 AM	0.71499	0.71492			N/A
4/10/2019	AUDCHF.fx	11:30:00 AM	0.7153	0.71532			N/A
4/10/2019	AUDCHF.fx	1:30:00 PM	0.7151	0.71511			N/A
4/10/2019	AUDCHF.fx	3:30:00 PM	0.71429	0.71417			N/A
4/10/2019	AUDCZK	9:30:00 AM	16.235	16.25			N/A
4/10/2019	AUDCZK	11:30:00 AM	16.229	16.245			N/A
4/10/2019	AUDCZK	1:30:00 PM	16.213	16.23			N/A
4/10/2019	AUDCZK	3:30:00 PM	16.189	16.201			N/A
4/10/2019	AUDDKK	9:30:00 AM	4.7341	4.7382			N/A
4/10/2019	AUDDKK	11:30:00 AM	4.7331	4.7372			N/A
4/10/2019	AUDDKK	1:30:00 PM	4.7305	4.7352			N/A
4/10/2019	AUDDKK	3:30:00 PM	4.7251	4.7286			N/A
4/10/2019	AUDHKD	9:30:00 AM	5.5959	5.5997			N/A
4/10/2019	AUDHKD	11:30:00 AM	5.6	5.6039			N/A
4/10/2019	AUDHKD	1:30:00 PM	5.5994	5.603			N/A
4/10/2019	AUDHKD	3:30:00 PM	5.5972	5.5948			N/A
4/10/2019	AUDHUF	9:30:00 AM	204.25	204.48			N/A
4/10/2019	AUDHUF	11:30:00 AM	203.95	204.08			N/A

4/10/2019	AUDHUF	1:30:00 PM	203.79	204.03			N/A
4/10/2019	AUDHUF	3:30:00 PM	203.53	203.59			N/A
4/10/2019	AUDJPY	9:30:00 AM	79.422	79.479			N/A
4/10/2019	AUDJPY	11:30:00 AM	79.416	79.482			N/A
4/10/2019	AUDJPY	1:30:00 PM	79.44	79.507			N/A
4/10/2019	AUDJPY	3:30:00 PM	79.391	79.407			N/A
4/10/2019	AUDJPY.fx	9:30:00 AM	79.456	79.444			N/A
4/10/2019	AUDJPY.fx	11:30:00 AM	79.448	79.448			N/A
4/10/2019	AUDJPY.fx	1:30:00 PM	79.473	79.472			N/A
4/10/2019	AUDJPY.fx	3:30:00 PM	79.423	79.393			N/A
4/10/2019	AUDMXN	9:30:00 AM	13.4927	13.5028			N/A
4/10/2019	AUDMXN	11:30:00 AM	13.4794	13.4874			N/A
4/10/2019	AUDMXN	1:30:00 PM	13.47	13.48			N/A
4/10/2019	AUDMXN	3:30:00 PM	13.4629	13.4648			N/A
4/10/2019	AUDNOK	9:30:00 AM	6.0822	6.0865			N/A
4/10/2019	AUDNOK	11:30:00 AM	6.0875	6.0924			N/A
4/10/2019	AUDNOK	1:30:00 PM	6.0823	6.0876			N/A
4/10/2019	AUDNOK	3:30:00 PM	6.0725	6.0747			N/A
4/10/2019	AUDNOK.fx	9:30:00 AM	6.0837	6.085			N/A
4/10/2019	AUDNOK.fx	11:30:00 AM	6.089	6.0908			N/A
4/10/2019	AUDNOK.fx	1:30:00 PM	6.0838	6.0858			N/A
4/10/2019	AUDNOK.fx	3:30:00 PM	6.0739	6.0736			N/A
4/10/2019	AUDNZD	9:30:00 AM	1.05805	1.05887			N/A
4/10/2019	AUDNZD	11:30:00 AM	1.05853	1.0594			N/A
4/10/2019	AUDNZD	1:30:00 PM	1.0577	1.0586			N/A
4/10/2019	AUDNZD	3:30:00 PM	1.05762	1.05823			N/A
4/10/2019	AUDNZD.fx	9:30:00 AM	1.05847	1.05843			N/A
4/10/2019	AUDNZD.fx	11:30:00 AM	1.05896	1.05896			N/A
4/10/2019	AUDNZD.fx	1:30:00 PM	1.05813	1.05816			N/A
4/10/2019	AUDNZD.fx	3:30:00 PM	1.05802	1.05794			N/A
4/10/2019	AUDPLN	9:30:00 AM	2.7167	2.7196			N/A
4/10/2019	AUDPLN	11:30:00 AM	2.7161	2.7192			N/A
4/10/2019	AUDPLN	1:30:00 PM	2.7133	2.7166			N/A
4/10/2019	AUDPLN	3:30:00 PM	2.7103	2.7125			N/A

4/10/2019	AUDSEK	9:30:00 AM	6.6052	6.6073			N/A
4/10/2019	AUDSEK	11:30:00 AM	6.6191	6.6221			N/A
4/10/2019	AUDSEK	1:30:00 PM	6.6161	6.6184			N/A
4/10/2019	AUDSEK	3:30:00 PM	6.6139	6.6133			N/A
4/10/2019	AUDSEK.fx	9:30:00 AM	6.6003	6.612			N/A
4/10/2019	AUDSEK.fx	11:30:00 AM	6.6143	6.6267			N/A
4/10/2019	AUDSEK.fx	1:30:00 PM	6.6114	6.623			N/A
4/10/2019	AUDSEK.fx	3:30:00 PM	6.6095	6.6189			N/A
4/10/2019	AUDSGD	9:30:00 AM	0.9671	0.9672			N/A
4/10/2019	AUDSGD	11:30:00 AM	0.967	0.9673			N/A
4/10/2019	AUDSGD	1:30:00 PM	0.967	0.9673			N/A
4/10/2019	AUDSGD	3:30:00 PM	0.9667	0.9661			N/A
4/10/2019	AUDSGD.fx	9:30:00 AM	0.96722	0.96711			N/A
4/10/2019	AUDSGD.fx	11:30:00 AM	0.9671	0.96717			N/A
4/10/2019	AUDSGD.fx	1:30:00 PM	0.96707	0.96717			N/A
4/10/2019	AUDSGD.fx	3:30:00 PM	0.9667	0.96623			N/A
4/10/2019	AUDUSD	9:30:00 AM	0.7148	0.71482			N/A
4/10/2019	AUDUSD	11:30:00 AM	0.71475	0.71483			N/A
4/10/2019	AUDUSD	1:30:00 PM	0.71476	0.71486			N/A
4/10/2019	AUDUSD	3:30:00 PM	0.71464	0.71403			N/A
4/10/2019	AUDUSD.fx	9:30:00 AM	0.71485	0.71477			N/A
4/10/2019	AUDUSD.fx	11:30:00 AM	0.71479	0.71479			N/A
4/10/2019	AUDUSD.fx	1:30:00 PM	0.71481	0.71481			N/A
4/10/2019	AUDUSD.fx	3:30:00 PM	0.7146	0.71417			N/A
4/10/2019	AUDZAR	9:30:00 AM	10.0226	10.0321			N/A
4/10/2019	AUDZAR	11:30:00 AM	10.0126	10.0257			N/A
4/10/2019	AUDZAR	1:30:00 PM	9.9929	10.0081			N/A
4/10/2019	AUDZAR	3:30:00 PM	9.962	9.9677			N/A
4/10/2019	AUS200.i	9:30:00 AM					N/A
4/10/2019	AUS200.i	11:30:00 AM	6215.5	6219			N/A
4/10/2019	AUS200.i	1:30:00 PM	6210.5	6214.45			N/A
4/10/2019	AUS200.i	3:30:00 PM	6216	6215.8			N/A
4/10/2019	BCHUSD	9:30:00 AM	305.48	315.95			N/A
4/10/2019	BCHUSD	11:30:00 AM	302.81	314.3			N/A

4/10/2019	BCHUSD	1:30:00 PM	300.64	312.13			N/A
4/10/2019	BCHUSD	3:30:00 PM	305.66	316.92			N/A
4/10/2019	CADCHF	9:30:00 AM	0.75024	0.75102			N/A
4/10/2019	CADCHF	11:30:00 AM	0.75067	0.75135			N/A
4/10/2019	CADCHF	1:30:00 PM	0.75032	0.75096			N/A
4/10/2019	CADCHF	3:30:00 PM	0.74958	0.75011			N/A
4/10/2019	CADCHF.fx	9:30:00 AM	0.75057	0.75065			N/A
4/10/2019	CADCHF.fx	11:30:00 AM	0.75099	0.75101			N/A
4/10/2019	CADCHF.fx	1:30:00 PM	0.75067	0.75058			N/A
4/10/2019	CADCHF.fx	3:30:00 PM	0.7499	0.74985			N/A
4/10/2019	CADCZK	9:30:00 AM	17.048	17.062			N/A
4/10/2019	CADCZK	11:30:00 AM	17.044	17.058			N/A
4/10/2019	CADCZK	1:30:00 PM	17.023	17.038			N/A
4/10/2019	CADCZK	3:30:00 PM	17.003	17.014			N/A
4/10/2019	CADDDKK	9:30:00 AM					N/A
4/10/2019	CADDDKK	11:30:00 AM	4.97	4.974			N/A
4/10/2019	CADDDKK	1:30:00 PM	4.967	4.97			N/A
4/10/2019	CADDDKK	3:30:00 PM	4.961	4.963			N/A
4/10/2019	CADHKD	9:30:00 AM	5.8757	5.8796			N/A
4/10/2019	CADHKD	11:30:00 AM	5.8806	5.8845			N/A
4/10/2019	CADHKD	1:30:00 PM	5.8792	5.8824			N/A
4/10/2019	CADHKD	3:30:00 PM	5.8774	5.8797			N/A
4/10/2019	CADHUF	9:30:00 AM	214.49	214.66			N/A
4/10/2019	CADHUF	11:30:00 AM	214.19	214.26			N/A
4/10/2019	CADHUF	1:30:00 PM	214.01	214.15			N/A
4/10/2019	CADHUF	3:30:00 PM	213.76	213.8			N/A
4/10/2019	CADJPY	9:30:00 AM	83.381	83.453			N/A
4/10/2019	CADJPY	11:30:00 AM	83.375	83.445			N/A
4/10/2019	CADJPY	1:30:00 PM	83.389	83.457			N/A
4/10/2019	CADJPY	3:30:00 PM	83.362	83.405			N/A
4/10/2019	CADJPY.fx	9:30:00 AM	83.414	83.419			N/A
4/10/2019	CADJPY.fx	11:30:00 AM	83.408	83.412			N/A
4/10/2019	CADJPY.fx	1:30:00 PM	83.422	83.423			N/A
4/10/2019	CADJPY.fx	3:30:00 PM	83.388	83.371			N/A

4/10/2019	CADMXN	9:30:00 AM	14.1684	14.178			N/A
4/10/2019	CADMXN	11:30:00 AM	14.1528	14.1651			N/A
4/10/2019	CADMXN	1:30:00 PM	14.1422	14.1533			N/A
4/10/2019	CADMXN	3:30:00 PM	14.1373	14.1422			N/A
4/10/2019	CADNOK	9:30:00 AM	6.3846	6.3894			N/A
4/10/2019	CADNOK	11:30:00 AM	6.3906	6.3929			N/A
4/10/2019	CADNOK	1:30:00 PM	6.3845	6.3885			N/A
4/10/2019	CADNOK	3:30:00 PM	6.3743	6.3743			N/A
4/10/2019	CADPLN	9:30:00 AM	2.8525	2.8544			N/A
4/10/2019	CADPLN	11:30:00 AM	2.8513	2.8529			N/A
4/10/2019	CADPLN	1:30:00 PM	2.849	2.8505			N/A
4/10/2019	CADPLN	3:30:00 PM	2.8452	2.8459			N/A
4/10/2019	CADSEK	9:30:00 AM	6.9337	6.936			N/A
4/10/2019	CADSEK	11:30:00 AM	6.9474	6.951			N/A
4/10/2019	CADSEK	1:30:00 PM	6.9431	6.9459			N/A
4/10/2019	CADSEK	3:30:00 PM	6.9414	6.9368			N/A
4/10/2019	CADSGD	9:30:00 AM	1.0147	1.015			N/A
4/10/2019	CADSGD	11:30:00 AM	1.0147	1.015			N/A
4/10/2019	CADSGD	1:30:00 PM	1.0146	1.0148			N/A
4/10/2019	CADSGD	3:30:00 PM	1.0141	1.0144			N/A
4/10/2019	CADZAR	9:30:00 AM	10.5233	10.5354			N/A
4/10/2019	CADZAR	11:30:00 AM	10.5132	10.5288			N/A
4/10/2019	CADZAR	1:30:00 PM	10.4918	10.5076			N/A
4/10/2019	CADZAR	3:30:00 PM	10.4599	10.4723			N/A
4/10/2019	CHFCZK	9:30:00 AM	22.716	22.728			N/A
4/10/2019	CHFCZK	11:30:00 AM	22.699	22.713			N/A
4/10/2019	CHFCZK	1:30:00 PM	22.68	22.697			N/A
4/10/2019	CHFCZK	3:30:00 PM	22.681	22.689			N/A
4/10/2019	CHFDKK	9:30:00 AM	6.623	6.626			N/A
4/10/2019	CHFDKK	11:30:00 AM	6.618	6.621			N/A
4/10/2019	CHFDKK	1:30:00 PM					N/A
4/10/2019	CHFDKK	3:30:00 PM	6.617	6.619			N/A
4/10/2019	CHFDKK.fx	9:30:00 AM	6.621	6.6274			N/A
4/10/2019	CHFDKK.fx	11:30:00 AM	6.617	6.6223			N/A

4/10/2019	CHFDKK.fx	1:30:00 PM	6.6151	6.6211			N/A
4/10/2019	CHFDKK.fx	3:30:00 PM	6.6156	6.6208			N/A
4/10/2019	CHFHKD	9:30:00 AM	7.8284	7.8324			N/A
4/10/2019	CHFHKD	11:30:00 AM	7.832	7.8352			N/A
4/10/2019	CHFHKD	1:30:00 PM	7.8323	7.8362			N/A
4/10/2019	CHFHKD	3:30:00 PM	7.8416	7.8377			N/A
4/10/2019	CHFHUF	9:30:00 AM	285.7	286.07			N/A
4/10/2019	CHFHUF	11:30:00 AM	285.17	285.4			N/A
4/10/2019	CHFHUF	1:30:00 PM	285	285.4			N/A
4/10/2019	CHFHUF	3:30:00 PM	284.98	285.23			N/A
4/10/2019	CHFJPY	9:30:00 AM	111.094	111.165			N/A
4/10/2019	CHFJPY	11:30:00 AM	111.038	111.095			N/A
4/10/2019	CHFJPY	1:30:00 PM	111.104	111.163			N/A
4/10/2019	CHFJPY	3:30:00 PM	111.182	111.191			N/A
4/10/2019	CHFJPY.fx	9:30:00 AM	111.127	111.131			N/A
4/10/2019	CHFJPY.fx	11:30:00 AM	111.069	111.06			N/A
4/10/2019	CHFJPY.fx	1:30:00 PM	111.138	111.128			N/A
4/10/2019	CHFJPY.fx	3:30:00 PM	111.21	111.168			N/A
4/10/2019	CHFMXN	9:30:00 AM	18.8759	18.8893			N/A
4/10/2019	CHFMXN	11:30:00 AM	18.848	18.8619			N/A
4/10/2019	CHFMXN	1:30:00 PM	18.8386	18.8561			N/A
4/10/2019	CHFMXN	3:30:00 PM	18.8589	18.8614			N/A
4/10/2019	CHFNOK	9:30:00 AM	8.5064	8.5139			N/A
4/10/2019	CHFNOK	11:30:00 AM	8.51	8.5172			N/A
4/10/2019	CHFNOK	1:30:00 PM	8.505	8.513			N/A
4/10/2019	CHFNOK	3:30:00 PM	8.5013	8.5065			N/A
4/10/2019	CHFNOK.fx	9:30:00 AM	8.50985	8.51054			N/A
4/10/2019	CHFNOK.fx	11:30:00 AM	8.51342	8.51386			N/A
4/10/2019	CHFNOK.fx	1:30:00 PM	8.50835	8.50962			N/A
4/10/2019	CHFNOK.fx	3:30:00 PM	8.50463	8.50308			N/A
4/10/2019	CHFPLN	9:30:00 AM	3.8005	3.8035			N/A
4/10/2019	CHFPLN	11:30:00 AM	3.7977	3.8005			N/A
4/10/2019	CHFPLN	1:30:00 PM	3.795	3.7982			N/A
4/10/2019	CHFPLN	3:30:00 PM	3.7952	3.7975			N/A

4/10/2019	CHFPLN.fx	9:30:00 AM	3.79814	3.80583			N/A
4/10/2019	CHFPLN.fx	11:30:00 AM	3.79526	3.80293			N/A
4/10/2019	CHFPLN.fx	1:30:00 PM	3.79274	3.80044			N/A
4/10/2019	CHFPLN.fx	3:30:00 PM	3.79248	3.80023			N/A
4/10/2019	CHFSEK	9:30:00 AM	9.238	9.2403			N/A
4/10/2019	CHFSEK	11:30:00 AM	9.2524	9.2564			N/A
4/10/2019	CHFSEK	1:30:00 PM	9.2506	9.2533			N/A
4/10/2019	CHFSEK	3:30:00 PM	9.2582	9.2507			N/A
4/10/2019	CHFSGD	9:30:00 AM	1.3526	1.3531			N/A
4/10/2019	CHFSGD	11:30:00 AM	1.3519	1.3523			N/A
4/10/2019	CHFSGD	1:30:00 PM	1.3523	1.3524			N/A
4/10/2019	CHFSGD	3:30:00 PM	1.3536	1.3531			N/A
4/10/2019	CHFSGD.fx	9:30:00 AM	1.35269	1.3529			N/A
4/10/2019	CHFSGD.fx	11:30:00 AM	1.35211	1.35211			N/A
4/10/2019	CHFSGD.fx	1:30:00 PM	1.3524	1.35254			N/A
4/10/2019	CHFSGD.fx	3:30:00 PM	1.35352	1.35294			N/A
4/10/2019	CHFZAR	9:30:00 AM	14.024	14.032			N/A
4/10/2019	CHFZAR	11:30:00 AM	14.0047	14.016			N/A
4/10/2019	CHFZAR	1:30:00 PM	13.9797	13.9955			N/A
4/10/2019	CHFZAR	3:30:00 PM	13.9544	13.9604			N/A
4/10/2019	CZKJPY	9:30:00 AM	4.89	4.893			N/A
4/10/2019	CZKJPY	11:30:00 AM	4.891	4.894			N/A
4/10/2019	CZKJPY	1:30:00 PM	4.898	4.901			N/A
4/10/2019	CZKJPY	3:30:00 PM	4.902	4.904			N/A
4/10/2019	DAX30.i	9:30:00 AM	11888.01	11887.51			N/A
4/10/2019	DAX30.i	11:30:00 AM	11921.51	11921.01			N/A
4/10/2019	DAX30.i	1:30:00 PM	11913.51	11913.51			N/A
4/10/2019	DAX30.i	3:30:00 PM	11930.39	11918.26			N/A
4/10/2019	DJ30.i	9:30:00 AM					N/A
4/10/2019	DJ30.i	11:30:00 AM					N/A
4/10/2019	DJ30.i	1:30:00 PM					N/A
4/10/2019	DJ30.i	3:30:00 PM					N/A
4/10/2019	DKKJPY	9:30:00 AM					N/A
4/10/2019	DKKJPY	11:30:00 AM	16.79	16.8			N/A

4/10/2019	DKKJPY	1:30:00 PM					N/A
4/10/2019	DKKJPY	3:30:00 PM	16.81	16.82			N/A
4/10/2019	EURAUD	9:30:00 AM	1.57555	1.57576			N/A
4/10/2019	EURAUD	11:30:00 AM	1.57574	1.57605			N/A
4/10/2019	EURAUD	1:30:00 PM	1.57651	1.577			N/A
4/10/2019	EURAUD	3:30:00 PM	1.57899	1.57873			N/A
4/10/2019	EURAUD.fx	9:30:00 AM	1.57576	1.57556			N/A
4/10/2019	EURAUD.fx	11:30:00 AM	1.57594	1.57582			N/A
4/10/2019	EURAUD.fx	1:30:00 PM	1.57671	1.57679			N/A
4/10/2019	EURAUD.fx	3:30:00 PM	1.57893	1.57854			N/A
4/10/2019	EURCAD	9:30:00 AM	1.50091	1.50178			N/A
4/10/2019	EURCAD	11:30:00 AM	1.50122	1.50193			N/A
4/10/2019	EURCAD	1:30:00 PM	1.50236	1.50306			N/A
4/10/2019	EURCAD	3:30:00 PM	1.50408	1.50442			N/A
4/10/2019	EURCAD.fx	9:30:00 AM	1.50131	1.50137			N/A
4/10/2019	EURCAD.fx	11:30:00 AM	1.50162	1.50152			N/A
4/10/2019	EURCAD.fx	1:30:00 PM	1.50276	1.50258			N/A
4/10/2019	EURCAD.fx	3:30:00 PM	1.50445	1.50409			N/A
4/10/2019	EURCHF	9:30:00 AM	1.12688	1.12702			N/A
4/10/2019	EURCHF	11:30:00 AM	1.1277	1.12766			N/A
4/10/2019	EURCHF	1:30:00 PM	1.12794	1.12806			N/A
4/10/2019	EURCHF	3:30:00 PM	1.12802	1.1278			N/A
4/10/2019	EURCHF.fx	9:30:00 AM	1.12694	1.12696			N/A
4/10/2019	EURCHF.fx	11:30:00 AM	1.12774	1.1276			N/A
4/10/2019	EURCHF.fx	1:30:00 PM	1.128	1.12799			N/A
4/10/2019	EURCHF.fx	3:30:00 PM	1.12807	1.12787			N/A
4/10/2019	EURCZK	9:30:00 AM	25.586	25.621			N/A
4/10/2019	EURCZK	11:30:00 AM	25.582	25.62			N/A
4/10/2019	EURCZK	1:30:00 PM					N/A
4/10/2019	EURCZK	3:30:00 PM	25.567	25.6			N/A
4/10/2019	EURDKK	9:30:00 AM	7.4639	7.4652			N/A
4/10/2019	EURDKK	11:30:00 AM	7.4645	7.4656			N/A
4/10/2019	EURDKK	1:30:00 PM	7.4645	7.4649			N/A
4/10/2019	EURDKK	3:30:00 PM	7.4643	7.4645			N/A

4/10/2019	EURGBP	9:30:00 AM	0.86204	0.86204			N/A
4/10/2019	EURGBP	11:30:00 AM	0.86187	0.8613			N/A
4/10/2019	EURGBP	1:30:00 PM	0.86238	0.86235			N/A
4/10/2019	EURGBP	3:30:00 PM	0.86173	0.86168			N/A
4/10/2019	EURGBP.fx	9:30:00 AM	0.86207	0.862			N/A
4/10/2019	EURGBP.fx	11:30:00 AM	0.86177	0.86131			N/A
4/10/2019	EURGBP.fx	1:30:00 PM	0.86241	0.86231			N/A
4/10/2019	EURGBP.fx	3:30:00 PM	0.86169	0.8617			N/A
4/10/2019	EURHKD	9:30:00 AM	8.8224	8.8278			N/A
4/10/2019	EURHKD	11:30:00 AM	8.8329	8.8364			N/A
4/10/2019	EURHKD	1:30:00 PM	8.8348	8.8401			N/A
4/10/2019	EURHKD	3:30:00 PM	8.844	8.8432			N/A
4/10/2019	EURHKD.fx	9:30:00 AM	8.82493	8.82521			N/A
4/10/2019	EURHKD.fx	11:30:00 AM	8.83538	8.83355			N/A
4/10/2019	EURHKD.fx	1:30:00 PM	8.83738	8.83758			N/A
4/10/2019	EURHKD.fx	3:30:00 PM	8.84586	8.83993			N/A
4/10/2019	EURHUF	9:30:00 AM	321.9	322.63			N/A
4/10/2019	EURHUF	11:30:00 AM	321.53	321.97			N/A
4/10/2019	EURHUF	1:30:00 PM	321.41	322.13			N/A
4/10/2019	EURHUF	3:30:00 PM	321.44	322.14			N/A
4/10/2019	EURHUF.fx	9:30:00 AM	322.161	322.366			N/A
4/10/2019	EURHUF.fx	11:30:00 AM	321.798	321.919			N/A
4/10/2019	EURHUF.fx	1:30:00 PM	321.686	321.88			N/A
4/10/2019	EURHUF.fx	3:30:00 PM	321.693	321.891			N/A
4/10/2019	EURJPY	9:30:00 AM	125.232	125.239			N/A
4/10/2019	EURJPY	11:30:00 AM	125.255	125.242			N/A
4/10/2019	EURJPY	1:30:00 PM	125.355	125.36			N/A
4/10/2019	EURJPY	3:30:00 PM	125.444	125.371			N/A
4/10/2019	EURJPY.fx	9:30:00 AM	125.234	125.235			N/A
4/10/2019	EURJPY.fx	11:30:00 AM	125.255	125.239			N/A
4/10/2019	EURJPY.fx	1:30:00 PM	125.357	125.356			N/A
4/10/2019	EURJPY.fx	3:30:00 PM	125.443	125.385			N/A
4/10/2019	EURMXN	9:30:00 AM	21.2746	21.2923			N/A
4/10/2019	EURMXN	11:30:00 AM	21.2569	21.2736			N/A

4/10/2019	EURMXN	1:30:00 PM	21.2513	21.2716			N/A
4/10/2019	EURMXN	3:30:00 PM	21.271	21.2791			N/A
4/10/2019	EURMXN.fx	9:30:00 AM	21.2828	21.2839			N/A
4/10/2019	EURMXN.fx	11:30:00 AM	21.2652	21.2654			N/A
4/10/2019	EURMXN.fx	1:30:00 PM	21.2595	21.2635			N/A
4/10/2019	EURMXN.fx	3:30:00 PM	21.2768	21.2706			N/A
4/10/2019	EURNOK	9:30:00 AM	9.5846	9.5964			N/A
4/10/2019	EURNOK	11:30:00 AM	9.5944	9.6072			N/A
4/10/2019	EURNOK	1:30:00 PM	9.5918	9.6044			N/A
4/10/2019	EURNOK	3:30:00 PM	9.587	9.5978			N/A
4/10/2019	EURNOK.fx	9:30:00 AM	9.59019	9.59085			N/A
4/10/2019	EURNOK.fx	11:30:00 AM	9.59981	9.60171			N/A
4/10/2019	EURNOK.fx	1:30:00 PM	9.59722	9.59886			N/A
4/10/2019	EURNOK.fx	3:30:00 PM	9.5923	9.59246			N/A
4/10/2019	EURNZD	9:30:00 AM	1.66798	1.66879			N/A
4/10/2019	EURNZD	11:30:00 AM	1.66909	1.66968			N/A
4/10/2019	EURNZD	1:30:00 PM	1.66869	1.66952			N/A
4/10/2019	EURNZD	3:30:00 PM	1.67109	1.67099			N/A
4/10/2019	EURNZD.fx	9:30:00 AM	1.66839	1.66834			N/A
4/10/2019	EURNZD.fx	11:30:00 AM	1.66952	1.66925			N/A
4/10/2019	EURNZD.fx	1:30:00 PM	1.66911	1.66909			N/A
4/10/2019	EURNZD.fx	3:30:00 PM	1.67135	1.67071			N/A
4/10/2019	EURPLN	9:30:00 AM	4.283	4.2861			N/A
4/10/2019	EURPLN	11:30:00 AM	4.2825	4.2856			N/A
4/10/2019	EURPLN	1:30:00 PM	4.2808	4.2841			N/A
4/10/2019	EURPLN	3:30:00 PM	4.2807	4.2837			N/A
4/10/2019	EURPLN.fx	9:30:00 AM	4.28227	4.28672			N/A
4/10/2019	EURPLN.fx	11:30:00 AM	4.28206	4.28613			N/A
4/10/2019	EURPLN.fx	1:30:00 PM	4.28007	4.28471			N/A
4/10/2019	EURPLN.fx	3:30:00 PM	4.27966	4.28423			N/A
4/10/2019	EURRUB	9:30:00 AM					N/A
4/10/2019	EURRUB	11:30:00 AM	72.64	73.068			N/A
4/10/2019	EURRUB	1:30:00 PM	72.582	73.028			N/A
4/10/2019	EURRUB	3:30:00 PM	72.479	72.83			N/A

4/10/2019	EURSEK	9:30:00 AM	10.4118	10.4135			N/A
4/10/2019	EURSEK	11:30:00 AM	10.4355	10.4392			N/A
4/10/2019	EURSEK	1:30:00 PM	10.436	10.4392			N/A
4/10/2019	EURSEK	3:30:00 PM	10.4443	10.4458			N/A
4/10/2019	EURSEK.fx	9:30:00 AM	10.41356	10.41204			N/A
4/10/2019	EURSEK.fx	11:30:00 AM	10.43699	10.43764			N/A
4/10/2019	EURSEK.fx	1:30:00 PM	10.43742	10.43762			N/A
4/10/2019	EURSEK.fx	3:30:00 PM	10.44602	10.44426			N/A
4/10/2019	EURSGD	9:30:00 AM	1.5241	1.525			N/A
4/10/2019	EURSGD	11:30:00 AM	1.5244	1.5251			N/A
4/10/2019	EURSGD	1:30:00 PM	1.5251	1.5256			N/A
4/10/2019	EURSGD	3:30:00 PM	1.5264	1.5264			N/A
4/10/2019	EURSGD.fx	9:30:00 AM	1.5245	1.52456			N/A
4/10/2019	EURSGD.fx	11:30:00 AM	1.52482	1.52458			N/A
4/10/2019	EURSGD.fx	1:30:00 PM	1.52548	1.52556			N/A
4/10/2019	EURSGD.fx	3:30:00 PM	1.52671	1.52597			N/A
4/10/2019	EURUSD	9:30:00 AM	1.12653	1.12666			N/A
4/10/2019	EURUSD	11:30:00 AM	1.12681	1.12665	10	10	N/A
4/10/2019	EURUSD	1:30:00 PM	1.1273	1.12742			N/A
4/10/2019	EURUSD	3:30:00 PM	1.1285	1.12775	2400	1000	N/A
4/10/2019	EURUSD.fx	9:30:00 AM	1.12673	1.12675			N/A
4/10/2019	EURUSD.fx	11:30:00 AM	1.127	1.12675			N/A
4/10/2019	EURUSD.fx	1:30:00 PM	1.1275	1.12751			N/A
4/10/2019	EURUSD.fx	3:30:00 PM	1.12862	1.12787			N/A
4/10/2019	EURZAR	9:30:00 AM	15.8082	15.8185			N/A
4/10/2019	EURZAR	11:30:00 AM	15.7985	15.8125			N/A
4/10/2019	EURZAR	1:30:00 PM	15.7714	15.7917			N/A
4/10/2019	EURZAR	3:30:00 PM	15.7462	15.7569			N/A
4/10/2019	EURZAR.fx	9:30:00 AM	15.8062	15.8196			N/A
4/10/2019	EURZAR.fx	11:30:00 AM	15.79742	15.81304			N/A
4/10/2019	EURZAR.fx	1:30:00 PM	15.77057	15.79259			N/A
4/10/2019	EURZAR.fx	3:30:00 PM	15.74529	15.76091			N/A
4/10/2019	GBPAUD	9:30:00 AM	1.82816	1.82869			N/A
4/10/2019	GBPAUD	11:30:00 AM	1.83005	1.82964			N/A

4/10/2019	GBPAUD	1:30:00 PM	1.82893	1.82943			N/A
4/10/2019	GBPAUD	3:30:00 PM	1.83298	1.83293			N/A
4/10/2019	GBPAUD.fx	9:30:00 AM	1.82855	1.82831			N/A
4/10/2019	GBPAUD.fx	11:30:00 AM	1.83034	1.82942			N/A
4/10/2019	GBPAUD.fx	1:30:00 PM	1.82933	1.82904			N/A
4/10/2019	GBPAUD.fx	3:30:00 PM	1.83308	1.83264			N/A
4/10/2019	GBPCAD	9:30:00 AM	1.74131	1.74187			N/A
4/10/2019	GBPCAD	11:30:00 AM	1.7431	1.74263			N/A
4/10/2019	GBPCAD	1:30:00 PM	1.74235	1.7426			N/A
4/10/2019	GBPCAD	3:30:00 PM	1.74554	1.74588			N/A
4/10/2019	GBPCAD.fx	9:30:00 AM	1.74168	1.74149			N/A
4/10/2019	GBPCAD.fx	11:30:00 AM	1.74341	1.74238			N/A
4/10/2019	GBPCAD.fx	1:30:00 PM	1.74272	1.74222			N/A
4/10/2019	GBPCAD.fx	3:30:00 PM	1.74577	1.74562			N/A
4/10/2019	GBPCHF	9:30:00 AM	1.30717	1.30745			N/A
4/10/2019	GBPCHF	11:30:00 AM	1.30913	1.30852			N/A
4/10/2019	GBPCHF	1:30:00 PM	1.30795	1.3082			N/A
4/10/2019	GBPCHF	3:30:00 PM	1.30892	1.30914			N/A
4/10/2019	GBPCHF.fx	9:30:00 AM	1.30734	1.30726			N/A
4/10/2019	GBPCHF.fx	11:30:00 AM	1.30926	1.30853			N/A
4/10/2019	GBPCHF.fx	1:30:00 PM	1.30813	1.30799			N/A
4/10/2019	GBPCHF.fx	3:30:00 PM	1.30906	1.30901			N/A
4/10/2019	GBPCZK	9:30:00 AM	29.69	29.708			N/A
4/10/2019	GBPCZK	11:30:00 AM	29.714	29.713			N/A
4/10/2019	GBPCZK	1:30:00 PM	29.664	29.682			N/A
4/10/2019	GBPCZK	3:30:00 PM	29.682	29.695			N/A
4/10/2019	GBPDKK	9:30:00 AM	8.656	8.666			N/A
4/10/2019	GBPDKK	11:30:00 AM	8.663	8.668			N/A
4/10/2019	GBPDKK	1:30:00 PM	8.653	8.663			N/A
4/10/2019	GBPDKK	3:30:00 PM	8.66	8.669			N/A
4/10/2019	GBPDKK.fx	9:30:00 AM	8.6538	8.6662			N/A
4/10/2019	GBPDKK.fx	11:30:00 AM	8.6608	8.6691			N/A
4/10/2019	GBPDKK.fx	1:30:00 PM	8.6511	8.6629			N/A
4/10/2019	GBPDKK.fx	3:30:00 PM	8.6574	8.6702			N/A

4/10/2019	GBPHKD	9:30:00 AM	10.2325	10.2375			N/A
4/10/2019	GBPHKD	11:30:00 AM	10.252	10.2476			N/A
4/10/2019	GBPHKD	1:30:00 PM	10.244	10.2477			N/A
4/10/2019	GBPHKD	3:30:00 PM	10.2614	10.2583			N/A
4/10/2019	GBPHUF	9:30:00 AM	373.46	373.9			N/A
4/10/2019	GBPHUF	11:30:00 AM	373.21	373.31			N/A
4/10/2019	GBPHUF	1:30:00 PM	372.79	373.21			N/A
4/10/2019	GBPHUF	3:30:00 PM	372.98	373.28			N/A
4/10/2019	GBPJPY	9:30:00 AM	145.269	145.289			N/A
4/10/2019	GBPJPY	11:30:00 AM	145.412	145.349	2000	2000	N/A
4/10/2019	GBPJPY	1:30:00 PM	145.361	145.371			N/A
4/10/2019	GBPJPY	3:30:00 PM	145.561	145.532			N/A
4/10/2019	GBPJPY.fx	9:30:00 AM	145.287	145.27			N/A
4/10/2019	GBPJPY.fx	11:30:00 AM	145.424	145.343			N/A
4/10/2019	GBPJPY.fx	1:30:00 PM	145.382	145.351			N/A
4/10/2019	GBPJPY.fx	3:30:00 PM	145.563	145.525			N/A
4/10/2019	GBPMXN	9:30:00 AM	24.6747	24.6877			N/A
4/10/2019	GBPMXN	11:30:00 AM	24.6738	24.667			N/A
4/10/2019	GBPMXN	1:30:00 PM	24.6435	24.6553			N/A
4/10/2019	GBPMXN	3:30:00 PM	24.683	24.68			N/A
4/10/2019	GBPNOK	9:30:00 AM	11.1199	11.1303			N/A
4/10/2019	GBPNOK	11:30:00 AM	11.1413	11.1458			N/A
4/10/2019	GBPNOK	1:30:00 PM	11.125	11.1346			N/A
4/10/2019	GBPNOK	3:30:00 PM	11.1278	11.1359			N/A
4/10/2019	GBPNOK.fx	9:30:00 AM	11.12499	11.12541			N/A
4/10/2019	GBPNOK.fx	11:30:00 AM	11.14593	11.14146			N/A
4/10/2019	GBPNOK.fx	1:30:00 PM	11.1301	11.12945			N/A
4/10/2019	GBPNOK.fx	3:30:00 PM	11.13269	11.1315			N/A
4/10/2019	GBPNZD	9:30:00 AM	1.93514	1.93564			N/A
4/10/2019	GBPNZD	11:30:00 AM	1.938	1.93725			N/A
4/10/2019	GBPNZD	1:30:00 PM	1.93535	1.93582			N/A
4/10/2019	GBPNZD	3:30:00 PM	1.93932	1.93912			N/A
4/10/2019	GBPNZD.fx	9:30:00 AM	1.9355	1.93526			N/A
4/10/2019	GBPNZD.fx	11:30:00 AM	1.93828	1.93727			N/A

4/10/2019	GBPNZD.fx	1:30:00 PM	1.9357	1.93547			N/A
4/10/2019	GBPNZD.fx	3:30:00 PM	1.93957	1.93897			N/A
4/10/2019	GBPPLN	9:30:00 AM	4.9694	4.971			N/A
4/10/2019	GBPPLN	11:30:00 AM	4.973	4.9721			N/A
4/10/2019	GBPPLN	1:30:00 PM	4.9653	4.9666			N/A
4/10/2019	GBPPLN	3:30:00 PM	4.9687	4.9697			N/A
4/10/2019	GBPPLN.fx	9:30:00 AM	4.96724	4.97299			N/A
4/10/2019	GBPPLN.fx	11:30:00 AM	4.97083	4.9742			N/A
4/10/2019	GBPPLN.fx	1:30:00 PM	4.96316	4.96869			N/A
4/10/2019	GBPPLN.fx	3:30:00 PM	4.96627	4.97259			N/A
4/10/2019	GBPSEK	9:30:00 AM	12.0757	12.0826			N/A
4/10/2019	GBPSEK	11:30:00 AM	12.1132	12.1148			N/A
4/10/2019	GBPSEK	1:30:00 PM	12.1006	12.1061			N/A
4/10/2019	GBPSEK	3:30:00 PM	12.1185	12.1236			N/A
4/10/2019	GBPSEK.fx	9:30:00 AM	12.07188	12.08647			N/A
4/10/2019	GBPSEK.fx	11:30:00 AM	12.1095	12.11862			N/A
4/10/2019	GBPSEK.fx	1:30:00 PM	12.09717	12.10953			N/A
4/10/2019	GBPSEK.fx	3:30:00 PM	12.11513	12.12862			N/A
4/10/2019	GBPSGD	9:30:00 AM	1.7683	1.7688			N/A
4/10/2019	GBPSGD	11:30:00 AM	1.77	1.7694			N/A
4/10/2019	GBPSGD	1:30:00 PM	1.7689	1.7694			N/A
4/10/2019	GBPSGD	3:30:00 PM	1.7718	1.7715			N/A
4/10/2019	GBPSGD.fx	9:30:00 AM	1.76644	1.77056			N/A
4/10/2019	GBPSGD.fx	11:30:00 AM	1.76805	1.7715			N/A
4/10/2019	GBPSGD.fx	1:30:00 PM	1.76702	1.77115			N/A
4/10/2019	GBPSGD.fx	3:30:00 PM	1.76941	1.77333			N/A
4/10/2019	GBPUSD	9:30:00 AM	1.3071	1.30699			N/A
4/10/2019	GBPUSD	11:30:00 AM	1.30843	1.30753		39000	N/A
4/10/2019	GBPUSD	1:30:00 PM	1.30759	1.30743			N/A
4/10/2019	GBPUSD	3:30:00 PM	1.30993	1.30914			N/A
4/10/2019	GBPUSD.fx	9:30:00 AM	1.30713	1.30695			N/A
4/10/2019	GBPUSD.fx	11:30:00 AM	1.30844	1.30768			N/A
4/10/2019	GBPUSD.fx	1:30:00 PM	1.30764	1.30739			N/A
4/10/2019	GBPUSD.fx	3:30:00 PM	1.30976	1.30912			N/A

4/10/2019	GBPZAR	9:30:00 AM	18.336	18.3526			N/A
4/10/2019	GBPZAR	11:30:00 AM	18.3406	18.3517			N/A
4/10/2019	GBPZAR	1:30:00 PM	18.2883	18.3154			N/A
4/10/2019	GBPZAR	3:30:00 PM	18.2718	18.2903			N/A
4/10/2019	GBPZAR.fx	9:30:00 AM	18.3432	18.3463			N/A
4/10/2019	GBPZAR.fx	11:30:00 AM	18.3472	18.3447			N/A
4/10/2019	GBPZAR.fx	1:30:00 PM	18.2955	18.3086			N/A
4/10/2019	GBPZAR.fx	3:30:00 PM	18.2774	18.2867			N/A
4/10/2019	GOLD	9:30:00 AM	1304.35	1304.43			N/A
4/10/2019	GOLD	11:30:00 AM	1304.22	1304.53			N/A
4/10/2019	GOLD	1:30:00 PM	1303.99	1304.24			N/A
4/10/2019	GOLD	3:30:00 PM	1304.71	1303.64			N/A
4/10/2019	HKDJPY	9:30:00 AM					N/A
4/10/2019	HKDJPY	11:30:00 AM	14.18	14.19			N/A
4/10/2019	HKDJPY	1:30:00 PM	14.19	14.19			N/A
4/10/2019	HKDJPY	3:30:00 PM	14.18	14.2			N/A
4/10/2019	HKDJPY.fx	9:30:00 AM	14.187	14.194			N/A
4/10/2019	HKDJPY.fx	11:30:00 AM	14.172	14.18			N/A
4/10/2019	HKDJPY.fx	1:30:00 PM	14.18	14.188			N/A
4/10/2019	HKDJPY.fx	3:30:00 PM	14.179	14.182			N/A
4/10/2019	HUFJPY	9:30:00 AM					N/A
4/10/2019	HUFJPY	11:30:00 AM	0.3894	0.3897			N/A
4/10/2019	HUFJPY	1:30:00 PM	0.3898	0.3901			N/A
4/10/2019	HUFJPY	3:30:00 PM	0.39	0.3903			N/A
4/10/2019	JP225.i	9:30:00 AM	21679.9	21694.9			N/A
4/10/2019	JP225.i	11:30:00 AM	21689.9	21709.9			N/A
4/10/2019	JP225.i	1:30:00 PM	21689.9	21704.9			N/A
4/10/2019	JP225.i	3:30:00 PM	21719.07	21714.9			N/A
4/10/2019	MXNJPY	9:30:00 AM	5.88	5.89			N/A
4/10/2019	MXNJPY	11:30:00 AM	5.89	5.9			N/A
4/10/2019	MXNJPY	1:30:00 PM	5.9	5.91			N/A
4/10/2019	MXNJPY	3:30:00 PM	5.9	5.9			N/A
4/10/2019	NASDAQ.i	9:30:00 AM					N/A
4/10/2019	NASDAQ.i	11:30:00 AM					N/A

4/10/2019	NASDAQ.i	1:30:00 PM					N/A
4/10/2019	NASDAQ.i	3:30:00 PM					N/A
4/10/2019	NOKJPY	9:30:00 AM	13.05	13.08			N/A
4/10/2019	NOKJPY	11:30:00 AM	13.04	13.07			N/A
4/10/2019	NOKJPY	1:30:00 PM					N/A
4/10/2019	NOKJPY	3:30:00 PM	13.07	13.09			N/A
4/10/2019	NOKJPY.fx	9:30:00 AM	13.054	13.062			N/A
4/10/2019	NOKJPY.fx	11:30:00 AM	13.043	13.049			N/A
4/10/2019	NOKJPY.fx	1:30:00 PM	13.057	13.065			N/A
4/10/2019	NOKJPY.fx	3:30:00 PM	13.074	13.075			N/A
4/10/2019	NZDCAD	9:30:00 AM	0.8995	0.90022			N/A
4/10/2019	NZDCAD	11:30:00 AM	0.89911	0.89981			N/A
4/10/2019	NZDCAD	1:30:00 PM	0.89997	0.90055			N/A
4/10/2019	NZDCAD	3:30:00 PM	0.9001	0.90034			N/A
4/10/2019	NZDCAD.fx	9:30:00 AM	0.89983	0.89989			N/A
4/10/2019	NZDCAD.fx	11:30:00 AM	0.89945	0.89948			N/A
4/10/2019	NZDCAD.fx	1:30:00 PM	0.9003	0.90023			N/A
4/10/2019	NZDCAD.fx	3:30:00 PM	0.90037	0.9001			N/A
4/10/2019	NZDCHF	9:30:00 AM	0.67511	0.67584			N/A
4/10/2019	NZDCHF	11:30:00 AM	0.67514	0.67585			N/A
4/10/2019	NZDCHF	1:30:00 PM	0.67544	0.67615			N/A
4/10/2019	NZDCHF	3:30:00 PM	0.67483	0.6752			N/A
4/10/2019	NZDCHF.fx	9:30:00 AM	0.67545	0.67549			N/A
4/10/2019	NZDCHF.fx	11:30:00 AM	0.67547	0.67551			N/A
4/10/2019	NZDCHF.fx	1:30:00 PM	0.67579	0.6758			N/A
4/10/2019	NZDCHF.fx	3:30:00 PM	0.67508	0.67502			N/A
4/10/2019	NZDCZK	9:30:00 AM	15.34	15.35			N/A
4/10/2019	NZDCZK	11:30:00 AM	15.329	15.339			N/A
4/10/2019	NZDCZK	1:30:00 PM	15.324	15.336			N/A
4/10/2019	NZDCZK	3:30:00 PM	15.304	15.312			N/A
4/10/2019	NZDDKK	9:30:00 AM	4.473	4.476			N/A
4/10/2019	NZDDKK	11:30:00 AM	4.469	4.472			N/A
4/10/2019	NZDDKK	1:30:00 PM					N/A
4/10/2019	NZDDKK	3:30:00 PM	4.466	4.467			N/A

4/10/2019	NZDHKD	9:30:00 AM	5.287	5.2897			N/A
4/10/2019	NZDHKD	11:30:00 AM	5.2887	5.2915			N/A
4/10/2019	NZDHKD	1:30:00 PM	5.2916	5.2941			N/A
4/10/2019	NZDHKD	3:30:00 PM	5.291	5.2891			N/A
4/10/2019	NZDHUF	9:30:00 AM	192.92	193.21			N/A
4/10/2019	NZDHUF	11:30:00 AM	192.55	192.75			N/A
4/10/2019	NZDHUF	1:30:00 PM	192.55	192.83			N/A
4/10/2019	NZDHUF	3:30:00 PM	192.32	192.49			N/A
4/10/2019	NZDJPY	9:30:00 AM	75.029	75.098			N/A
4/10/2019	NZDJPY	11:30:00 AM	74.99	75.06			N/A
4/10/2019	NZDJPY	1:30:00 PM	75.07	75.14			N/A
4/10/2019	NZDJPY	3:30:00 PM	75.052	75.069			N/A
4/10/2019	NZDJPY.fx	9:30:00 AM	75.06	75.066			N/A
4/10/2019	NZDJPY.fx	11:30:00 AM	75.021	75.028			N/A
4/10/2019	NZDJPY.fx	1:30:00 PM	75.101	75.107			N/A
4/10/2019	NZDJPY.fx	3:30:00 PM	75.077	75.047			N/A
4/10/2019	NZDMXN	9:30:00 AM	12.749	12.7545			N/A
4/10/2019	NZDMXN	11:30:00 AM	12.7298	12.735			N/A
4/10/2019	NZDMXN	1:30:00 PM	12.7304	12.7364			N/A
4/10/2019	NZDMXN	3:30:00 PM	12.7273	12.7248			N/A
4/10/2019	NZDNOK	9:30:00 AM	5.7443	5.7482			N/A
4/10/2019	NZDNOK	11:30:00 AM	5.7465	5.7485			N/A
4/10/2019	NZDNOK	1:30:00 PM	5.7464	5.7497			N/A
4/10/2019	NZDNOK	3:30:00 PM	5.7371	5.7364			N/A
4/10/2019	NZDPLN	9:30:00 AM	2.5667	2.5681			N/A
4/10/2019	NZDPLN	11:30:00 AM	2.5639	2.5652			N/A
4/10/2019	NZDPLN	1:30:00 PM	2.5642	2.5654			N/A
4/10/2019	NZDPLN	3:30:00 PM	2.561	2.5612			N/A
4/10/2019	NZDSEK	9:30:00 AM	6.2363	6.2416			N/A
4/10/2019	NZDSEK	11:30:00 AM	6.2456	6.2524			N/A
4/10/2019	NZDSEK	1:30:00 PM	6.2476	6.2532			N/A
4/10/2019	NZDSEK	3:30:00 PM	6.2462	6.2437			N/A
4/10/2019	NZDSGD	9:30:00 AM	0.9135	0.9141			N/A
4/10/2019	NZDSGD	11:30:00 AM	0.913	0.9137			N/A

4/10/2019	NZDSGD	1:30:00 PM	0.9137	0.9143			N/A
4/10/2019	NZDSGD	3:30:00 PM	0.9137	0.9135			N/A
4/10/2019	NZDSGD.fx	9:30:00 AM	0.91348	0.91403			N/A
4/10/2019	NZDSGD.fx	11:30:00 AM	0.91302	0.9136			N/A
4/10/2019	NZDSGD.fx	1:30:00 PM	0.91368	0.91421			N/A
4/10/2019	NZDSGD.fx	3:30:00 PM	0.91353	0.91349			N/A
4/10/2019	NZDUSD	9:30:00 AM	0.67523	0.67537			N/A
4/10/2019	NZDUSD	11:30:00 AM	0.6749	0.67502			N/A
4/10/2019	NZDUSD	1:30:00 PM	0.67541	0.67552			N/A
4/10/2019	NZDUSD	3:30:00 PM	0.67557	0.67499			N/A
4/10/2019	NZDUSD.fx	9:30:00 AM	0.6753	0.67538			N/A
4/10/2019	NZDUSD.fx	11:30:00 AM	0.67498	0.67504			N/A
4/10/2019	NZDUSD.fx	1:30:00 PM	0.67547	0.67553			N/A
4/10/2019	NZDUSD.fx	3:30:00 PM	0.67557	0.67503			N/A
4/10/2019	NZDZAR	9:30:00 AM	9.4664	9.4789			N/A
4/10/2019	NZDZAR	11:30:00 AM	9.4535	9.4686			N/A
4/10/2019	NZDZAR	1:30:00 PM	9.4414	9.4584			N/A
4/10/2019	NZDZAR	3:30:00 PM	9.4143	9.4246			N/A
4/10/2019	SEKJPY	9:30:00 AM	12.03	12.03			N/A
4/10/2019	SEKJPY	11:30:00 AM	12	12.01			N/A
4/10/2019	SEKJPY	1:30:00 PM	12.01	12.02			N/A
4/10/2019	SEKJPY	3:30:00 PM	12.01	12.01			N/A
4/10/2019	SEKJPY.fx	9:30:00 AM	12.019	12.034			N/A
4/10/2019	SEKJPY.fx	11:30:00 AM	11.991	12.009			N/A
4/10/2019	SEKJPY.fx	1:30:00 PM	12.001	12.019			N/A
4/10/2019	SEKJPY.fx	3:30:00 PM	12	12.012			N/A
4/10/2019	SGDJPY	9:30:00 AM	82.17	82.15			N/A
4/10/2019	SGDJPY	11:30:00 AM	82.11	82.14			N/A
4/10/2019	SGDJPY	1:30:00 PM	82.14	82.17			N/A
4/10/2019	SGDJPY	3:30:00 PM	82.17	82.16			N/A
4/10/2019	SILVER	9:30:00 AM	15.03	15.42			N/A
4/10/2019	SILVER	11:30:00 AM	15.04	15.41			N/A
4/10/2019	SILVER	1:30:00 PM	15.05	15.43			N/A
4/10/2019	SILVER	3:30:00 PM	15.06	15.43			N/A

4/10/2019	SPX500.i	9:30:00 AM	2882.91	2883.96			N/A
4/10/2019	SPX500.i	11:30:00 AM	2884.16	2885.01			N/A
4/10/2019	SPX500.i	1:30:00 PM	2883.91	2884.96			N/A
4/10/2019	SPX500.i	3:30:00 PM	2886.91	2884.46			N/A
4/10/2019	UK100.i	9:30:00 AM	7437.4	7439.4			N/A
4/10/2019	UK100.i	11:30:00 AM	7430.4	7429.4			N/A
4/10/2019	UK100.i	1:30:00 PM	7441.82	7441.15			N/A
4/10/2019	UK100.i	3:30:00 PM	7430.98	7425.9			N/A
4/10/2019	USDCAD	9:30:00 AM	1.33243	1.33257			N/A
4/10/2019	USDCAD	11:30:00 AM	1.3325	1.33253			N/A
4/10/2019	USDCAD	1:30:00 PM	1.33275	1.33269			N/A
4/10/2019	USDCAD	3:30:00 PM	1.33343	1.33285			N/A
4/10/2019	USDCAD.fx	9:30:00 AM	1.33246	1.33253			N/A
4/10/2019	USDCAD.fx	11:30:00 AM	1.33252	1.33251			N/A
4/10/2019	USDCAD.fx	1:30:00 PM	1.3328	1.33266			N/A
4/10/2019	USDCAD.fx	3:30:00 PM	1.33344	1.33292			N/A
4/10/2019	USDCHF	9:30:00 AM	1.0001	1.00027			N/A
4/10/2019	USDCHF	11:30:00 AM	1.00066	1.00069			N/A
4/10/2019	USDCHF	1:30:00 PM	1.00035	1.00046			N/A
4/10/2019	USDCHF	3:30:00 PM	0.99994	0.99926			N/A
4/10/2019	USDCHF.fx	9:30:00 AM	1.00015	1.00022			N/A
4/10/2019	USDCHF.fx	11:30:00 AM	1.0007	1.00065			N/A
4/10/2019	USDCHF.fx	1:30:00 PM	1.0004	1.00039			N/A
4/10/2019	USDCHF.fx	3:30:00 PM	0.99998	0.99933			N/A
4/10/2019	USDCZK	9:30:00 AM	22.731	22.752			N/A
4/10/2019	USDCZK	11:30:00 AM	22.729	22.747			N/A
4/10/2019	USDCZK	1:30:00 PM	22.702	22.724			N/A
4/10/2019	USDCZK	3:30:00 PM	22.694	22.697			N/A
4/10/2019	USDCZK.fx	9:30:00 AM	22.7392	22.7443			N/A
4/10/2019	USDCZK.fx	11:30:00 AM	22.7373	22.7391			N/A
4/10/2019	USDCZK.fx	1:30:00 PM	22.71	22.716			N/A
4/10/2019	USDCZK.fx	3:30:00 PM	22.6995	22.6907			N/A
4/10/2019	USDDKK	9:30:00 AM	6.6242	6.6284			N/A
4/10/2019	USDDKK	11:30:00 AM	6.6235	6.6265			N/A

4/10/2019	USDDKK	1:30:00 PM	6.6197	6.6237			N/A
4/10/2019	USDDKK	3:30:00 PM	6.6168	6.6166			N/A
4/10/2019	USDDKK.fx	9:30:00 AM	6.62467	6.62639			N/A
4/10/2019	USDDKK.fx	11:30:00 AM	6.6246	6.62451			N/A
4/10/2019	USDDKK.fx	1:30:00 PM	6.62021	6.62171			N/A
4/10/2019	USDDKK.fx	3:30:00 PM	6.61824	6.61543			N/A
4/10/2019	USDHKD	9:30:00 AM	7.8323	7.8324			N/A
4/10/2019	USDHKD	11:30:00 AM	7.8395	7.8397			N/A
4/10/2019	USDHKD	1:30:00 PM	7.8379	7.8384			N/A
4/10/2019	USDHKD	3:30:00 PM	7.8378	7.8376			N/A
4/10/2019	USDHKD.fx	9:30:00 AM	7.83216	7.83261			N/A
4/10/2019	USDHKD.fx	11:30:00 AM	7.83963	7.8397			N/A
4/10/2019	USDHKD.fx	1:30:00 PM	7.83783	7.83832			N/A
4/10/2019	USDHKD.fx	3:30:00 PM	7.83769	7.8382			N/A
4/10/2019	USDHUF	9:30:00 AM	285.78	286.25			N/A
4/10/2019	USDHUF	11:30:00 AM	285.42	285.82			N/A
4/10/2019	USDHUF	1:30:00 PM	285.16	285.62			N/A
4/10/2019	USDHUF	3:30:00 PM	285.05	285.33			N/A
4/10/2019	USDHUF.fx	9:30:00 AM	285.965	286.063			N/A
4/10/2019	USDHUF.fx	11:30:00 AM	285.604	285.623			N/A
4/10/2019	USDHUF.fx	1:30:00 PM	285.355	285.434			N/A
4/10/2019	USDHUF.fx	3:30:00 PM	285.244	285.184			N/A
4/10/2019	USDINR	9:30:00 AM	64.17	74.15			N/A
4/10/2019	USDINR	11:30:00 AM	64.18	74.16			N/A
4/10/2019	USDINR	1:30:00 PM					N/A
4/10/2019	USDINR	3:30:00 PM					N/A
4/10/2019	USDJPY	9:30:00 AM	111.144	111.155			N/A
4/10/2019	USDJPY	11:30:00 AM	111.142	111.148			N/A
4/10/2019	USDJPY	1:30:00 PM	111.174	111.183			N/A
4/10/2019	USDJPY	3:30:00 PM	111.166	111.127			N/A
4/10/2019	USDJPY.fx	9:30:00 AM	111.149	111.148			N/A
4/10/2019	USDJPY.fx	11:30:00 AM	111.147	111.141			N/A
4/10/2019	USDJPY.fx	1:30:00 PM	111.181	111.176			N/A
4/10/2019	USDJPY.fx	3:30:00 PM	111.17	111.129			N/A

4/10/2019	USDMXN	9:30:00 AM	18.886	18.893			N/A
4/10/2019	USDMXN	11:30:00 AM	18.868	18.873			N/A
4/10/2019	USDMXN	1:30:00 PM	18.853	18.861			N/A
4/10/2019	USDMXN	3:30:00 PM	18.855	18.854			N/A
4/10/2019	USDMXN.fx	9:30:00 AM	18.8893	18.8891			N/A
4/10/2019	USDMXN.fx	11:30:00 AM	18.8715	18.8702			N/A
4/10/2019	USDMXN.fx	1:30:00 PM	18.8553	18.8589			N/A
4/10/2019	USDMXN.fx	3:30:00 PM	18.8615	18.8507			N/A
4/10/2019	USDNOK	9:30:00 AM	8.5079	8.5162			N/A
4/10/2019	USDNOK	11:30:00 AM	8.5161	8.5237			N/A
4/10/2019	USDNOK	1:30:00 PM	8.5083	8.5172			N/A
4/10/2019	USDNOK	3:30:00 PM	8.5011	8.5029			N/A
4/10/2019	USDNOK.fx	9:30:00 AM	8.51184	8.51177			N/A
4/10/2019	USDNOK.fx	11:30:00 AM	8.52052	8.51919			N/A
4/10/2019	USDNOK.fx	1:30:00 PM	8.51229	8.51281			N/A
4/10/2019	USDNOK.fx	3:30:00 PM	8.50443	8.49903			N/A
4/10/2019	USDPLN	9:30:00 AM	3.8019	3.8034			N/A
4/10/2019	USDPLN	11:30:00 AM	3.8013	3.8022			N/A
4/10/2019	USDPLN	1:30:00 PM	3.7973	3.799			N/A
4/10/2019	USDPLN	3:30:00 PM	3.7955	3.7946			N/A
4/10/2019	USDPLN.fx	9:30:00 AM	3.80108	3.80414			N/A
4/10/2019	USDPLN.fx	11:30:00 AM	3.80052	3.80297			N/A
4/10/2019	USDPLN.fx	1:30:00 PM	3.79648	3.79982			N/A
4/10/2019	USDPLN.fx	3:30:00 PM	3.79451	3.79577			N/A
4/10/2019	USDRUB	9:30:00 AM					N/A
4/10/2019	USDRUB	11:30:00 AM	64.568	64.963			N/A
4/10/2019	USDRUB	1:30:00 PM	64.484	64.883			N/A
4/10/2019	USDRUB	3:30:00 PM	64.377	64.74			N/A
4/10/2019	USDSEK	9:30:00 AM	9.2402	9.2421			N/A
4/10/2019	USDSEK	11:30:00 AM	9.2599	9.2631			N/A
4/10/2019	USDSEK	1:30:00 PM	9.255	9.2581			N/A
4/10/2019	USDSEK	3:30:00 PM	9.2583	9.2563			N/A
4/10/2019	USDSEK.fx	9:30:00 AM	9.24265	9.24044			N/A
4/10/2019	USDSEK.fx	11:30:00 AM	9.26233	9.26138			N/A

4/10/2019	USDSEK.fx	1:30:00 PM	9.25757	9.2564			N/A
4/10/2019	USDSEK.fx	3:30:00 PM	9.26099	9.25439			N/A
4/10/2019	USDSGD	9:30:00 AM	1.3529	1.3533			N/A
4/10/2019	USDSGD	11:30:00 AM	1.3528	1.3532			N/A
4/10/2019	USDSGD	1:30:00 PM	1.3528	1.3529			N/A
4/10/2019	USDSGD	3:30:00 PM	1.3527	1.3529			N/A
4/10/2019	USDSGD.fx	9:30:00 AM	1.35281	1.35328			N/A
4/10/2019	USDSGD.fx	11:30:00 AM	1.35276	1.35322			N/A
4/10/2019	USDSGD.fx	1:30:00 PM	1.35273	1.35325			N/A
4/10/2019	USDSGD.fx	3:30:00 PM	1.35254	1.35306			N/A
4/10/2019	USDZAR	9:30:00 AM	14.0293	14.0395			N/A
4/10/2019	USDZAR	11:30:00 AM	14.0187	14.0317			N/A
4/10/2019	USDZAR	1:30:00 PM	13.9873	14.0057			N/A
4/10/2019	USDZAR	3:30:00 PM	13.9584	13.964			N/A
4/10/2019	USDZAR.fx	9:30:00 AM					N/A
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4/10/2019	XAUUSD	9:30:00 AM	1304.34	1304.43			N/A
4/10/2019	XAUUSD	11:30:00 AM	1304.23	1304.53			N/A
4/10/2019	XAUUSD	1:30:00 PM	1303.99	1304.24			N/A
4/10/2019	XAUUSD	3:30:00 PM	1304.67	1303.37			N/A
4/10/2019	ZARJPY	9:30:00 AM	7.9	7.92			N/A
4/10/2019	ZARJPY	11:30:00 AM	7.91	7.92			N/A
4/10/2019	ZARJPY	1:30:00 PM	7.93	7.93			N/A
4/10/2019	ZARJPY	3:30:00 PM	7.95	7.96			N/A
4/10/2019	ZARJPY.fx	9:30:00 AM	7.918	7.92			N/A
4/10/2019	ZARJPY.fx	11:30:00 AM	7.923	7.926			N/A
4/10/2019	ZARJPY.fx	1:30:00 PM	7.941	7.946			N/A
4/10/2019	ZARJPY.fx	3:30:00 PM	7.962	7.962			N/A
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4/11/2019	#Litecoin	3:30:00 PM	77.63	79.3			N/A
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4/11/2019	#NG.f	9:30:00 AM	2.693	2.711			N/A
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4/11/2019	#NG.f	3:30:00 PM	2.682	2.699			N/A
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4/11/2019	#TWTR	3:30:00 PM					N/A
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4/11/2019	#ZNGA	1:30:00 PM					N/A
4/11/2019	#ZNGA	3:30:00 PM					N/A
4/11/2019	AUDCAD	9:30:00 AM	0.95491	0.95551			N/A
4/11/2019	AUDCAD	11:30:00 AM	0.95489	0.95549			N/A

4/11/2019	AUDCAD	1:30:00 PM	0.95575	0.95639			N/A
4/11/2019	AUDCAD	3:30:00 PM	0.95549	0.95583			N/A
4/11/2019	AUDCAD.fx	9:30:00 AM	0.95525	0.95515			N/A
4/11/2019	AUDCAD.fx	11:30:00 AM	0.95524	0.95515			N/A
4/11/2019	AUDCAD.fx	1:30:00 PM	0.95609	0.95606			N/A
4/11/2019	AUDCAD.fx	3:30:00 PM	0.95577	0.95551			N/A
4/11/2019	AUDCHF	9:30:00 AM	0.71716	0.71778			N/A
4/11/2019	AUDCHF	11:30:00 AM	0.71611	0.71677			N/A
4/11/2019	AUDCHF	1:30:00 PM	0.71686	0.7175			N/A
4/11/2019	AUDCHF	3:30:00 PM	0.71697	0.71746			N/A
4/11/2019	AUDCHF.fx	9:30:00 AM	0.7175	0.71743			N/A
4/11/2019	AUDCHF.fx	11:30:00 AM	0.71645	0.71641			N/A
4/11/2019	AUDCHF.fx	1:30:00 PM	0.7172	0.71715			N/A
4/11/2019	AUDCHF.fx	3:30:00 PM	0.71727	0.71714			N/A
4/11/2019	AUDCZK	9:30:00 AM	16.225	16.24			N/A
4/11/2019	AUDCZK	11:30:00 AM	16.213	16.229			N/A
4/11/2019	AUDCZK	1:30:00 PM	16.229	16.244			N/A
4/11/2019	AUDCZK	3:30:00 PM	16.235	16.236			N/A
4/11/2019	AUDDKK	9:30:00 AM	4.7373	4.7413			N/A
4/11/2019	AUDDKK	11:30:00 AM	4.7333	4.7375			N/A
4/11/2019	AUDDKK	1:30:00 PM	4.7367	4.7407			N/A
4/11/2019	AUDDKK	3:30:00 PM	4.734	4.7374			N/A
4/11/2019	AUDHKD	9:30:00 AM	5.6111	5.6146			N/A
4/11/2019	AUDHKD	11:30:00 AM	5.6082	5.6114			N/A
4/11/2019	AUDHKD	1:30:00 PM	5.6116	5.6148			N/A
4/11/2019	AUDHKD	3:30:00 PM	5.6003	5.6014			N/A
4/11/2019	AUDHUF	9:30:00 AM	203.89	203.96			N/A
4/11/2019	AUDHUF	11:30:00 AM	203.74	203.98			N/A
4/11/2019	AUDHUF	1:30:00 PM	203.74	203.96			N/A
4/11/2019	AUDHUF	3:30:00 PM	203.91	203.97			N/A
4/11/2019	AUDJPY	9:30:00 AM	79.516	79.576			N/A
4/11/2019	AUDJPY	11:30:00 AM	79.483	79.55			N/A
4/11/2019	AUDJPY	1:30:00 PM	79.507	79.574			N/A
4/11/2019	AUDJPY	3:30:00 PM	79.482	79.529			N/A

4/11/2019	AUDJPY.fx	9:30:00 AM	79.55	79.541			N/A
4/11/2019	AUDJPY.fx	11:30:00 AM	79.516	79.515			N/A
4/11/2019	AUDJPY.fx	1:30:00 PM	79.54	79.539			N/A
4/11/2019	AUDJPY.fx	3:30:00 PM	79.513	79.496			N/A
4/11/2019	AUDMXN	9:30:00 AM	13.4773	13.4861			N/A
4/11/2019	AUDMXN	11:30:00 AM	13.4713	13.4822			N/A
4/11/2019	AUDMXN	1:30:00 PM	13.4843	13.4928			N/A
4/11/2019	AUDMXN	3:30:00 PM	13.4887	13.4894			N/A
4/11/2019	AUDNOK	9:30:00 AM	6.0813	6.0856			N/A
4/11/2019	AUDNOK	11:30:00 AM	6.0843	6.0882			N/A
4/11/2019	AUDNOK	1:30:00 PM	6.0838	6.0886			N/A
4/11/2019	AUDNOK	3:30:00 PM	6.0851	6.0877			N/A
4/11/2019	AUDNOK.fx	9:30:00 AM	6.0827	6.084			N/A
4/11/2019	AUDNOK.fx	11:30:00 AM	6.0859	6.0865			N/A
4/11/2019	AUDNOK.fx	1:30:00 PM	6.0854	6.0869			N/A
4/11/2019	AUDNOK.fx	3:30:00 PM	6.0862	6.0862			N/A
4/11/2019	AUDNZD	9:30:00 AM	1.05899	1.05972			N/A
4/11/2019	AUDNZD	11:30:00 AM	1.05867	1.05953			N/A
4/11/2019	AUDNZD	1:30:00 PM	1.05886	1.05972			N/A
4/11/2019	AUDNZD	3:30:00 PM	1.05987	1.06041			N/A
4/11/2019	AUDNZD.fx	9:30:00 AM	1.05943	1.05928			N/A
4/11/2019	AUDNZD.fx	11:30:00 AM	1.05909	1.05909			N/A
4/11/2019	AUDNZD.fx	1:30:00 PM	1.05927	1.05928			N/A
4/11/2019	AUDNZD.fx	3:30:00 PM	1.06028	1.06001			N/A
4/11/2019	AUDPLN	9:30:00 AM	2.7155	2.7182			N/A
4/11/2019	AUDPLN	11:30:00 AM	2.715	2.718			N/A
4/11/2019	AUDPLN	1:30:00 PM	2.7166	2.7196			N/A
4/11/2019	AUDPLN	3:30:00 PM	2.7163	2.7188			N/A
4/11/2019	AUDSEK	9:30:00 AM	6.633	6.6347			N/A
4/11/2019	AUDSEK	11:30:00 AM	6.6301	6.633			N/A
4/11/2019	AUDSEK	1:30:00 PM	6.6319	6.6344			N/A
4/11/2019	AUDSEK	3:30:00 PM	6.6238	6.625			N/A
4/11/2019	AUDSEK.fx	9:30:00 AM	6.6282	6.6391			N/A
4/11/2019	AUDSEK.fx	11:30:00 AM	6.6256	6.6374			N/A

4/11/2019	AUDSEK.fx	1:30:00 PM	6.6273	6.6389			N/A
4/11/2019	AUDSEK.fx	3:30:00 PM	6.6189	6.6297			N/A
4/11/2019	AUDSGD	9:30:00 AM	0.9687	0.9689			N/A
4/11/2019	AUDSGD	11:30:00 AM	0.9683	0.9687			N/A
4/11/2019	AUDSGD	1:30:00 PM	0.9686	0.9688			N/A
4/11/2019	AUDSGD	3:30:00 PM	0.9677	0.9676			N/A
4/11/2019	AUDSGD.fx	9:30:00 AM	0.96879	0.96877			N/A
4/11/2019	AUDSGD.fx	11:30:00 AM	0.96838	0.96845			N/A
4/11/2019	AUDSGD.fx	1:30:00 PM	0.96866	0.96868			N/A
4/11/2019	AUDSGD.fx	3:30:00 PM	0.96768	0.96756			N/A
4/11/2019	AUDUSD	9:30:00 AM	0.71587	0.71589			N/A
4/11/2019	AUDUSD	11:30:00 AM	0.71543	0.71548			N/A
4/11/2019	AUDUSD	1:30:00 PM	0.71578	0.71582			N/A
4/11/2019	AUDUSD	3:30:00 PM	0.71448	0.71424			N/A
4/11/2019	AUDUSD.fx	9:30:00 AM	0.71592	0.71582			N/A
4/11/2019	AUDUSD.fx	11:30:00 AM	0.71548	0.71542			N/A
4/11/2019	AUDUSD.fx	1:30:00 PM	0.71583	0.71576			N/A
4/11/2019	AUDUSD.fx	3:30:00 PM	0.71449	0.7142			N/A
4/11/2019	AUDZAR	9:30:00 AM	9.9603	9.9725			N/A
4/11/2019	AUDZAR	11:30:00 AM	9.9488	9.9611			N/A
4/11/2019	AUDZAR	1:30:00 PM	9.97	9.9839			N/A
4/11/2019	AUDZAR	3:30:00 PM	10.0172	10.021			N/A
4/11/2019	AUS200.i	9:30:00 AM					N/A
4/11/2019	AUS200.i	11:30:00 AM	6201.72	6204.22			N/A
4/11/2019	AUS200.i	1:30:00 PM	6212.92	6216.92			N/A
4/11/2019	AUS200.i	3:30:00 PM	6217.42	6220.52			N/A
4/11/2019	BCHUSD	9:30:00 AM	285.46	296.9			N/A
4/11/2019	BCHUSD	11:30:00 AM	280.15	291.52			N/A
4/11/2019	BCHUSD	1:30:00 PM	276.3	287.28			N/A
4/11/2019	BCHUSD	3:30:00 PM	263.82	274.69			N/A
4/11/2019	CADCHF	9:30:00 AM	0.75078	0.75147			N/A
4/11/2019	CADCHF	11:30:00 AM	0.74966	0.75041			N/A
4/11/2019	CADCHF	1:30:00 PM	0.74979	0.75048			N/A
4/11/2019	CADCHF	3:30:00 PM	0.75021	0.75076			N/A

4/11/2019	CADCHF.fx	9:30:00 AM	0.75111	0.75111			N/A
4/11/2019	CADCHF.fx	11:30:00 AM	0.75	0.75006			N/A
4/11/2019	CADCHF.fx	1:30:00 PM	0.75013	0.75013			N/A
4/11/2019	CADCHF.fx	3:30:00 PM	0.75054	0.75051			N/A
4/11/2019	CADCZK	9:30:00 AM	16.987	17.003			N/A
4/11/2019	CADCZK	11:30:00 AM	16.976	16.992			N/A
4/11/2019	CADCZK	1:30:00 PM	16.978	16.993			N/A
4/11/2019	CADCZK	3:30:00 PM	16.991	16.996			N/A
4/11/2019	CADDDKK	9:30:00 AM					N/A
4/11/2019	CADDDKK	11:30:00 AM					N/A
4/11/2019	CADDDKK	1:30:00 PM					N/A
4/11/2019	CADDDKK	3:30:00 PM	4.954	4.956			N/A
4/11/2019	CADHKD	9:30:00 AM	5.8748	5.8788			N/A
4/11/2019	CADHKD	11:30:00 AM	5.8715	5.8752			N/A
4/11/2019	CADHKD	1:30:00 PM	5.8702	5.8738			N/A
4/11/2019	CADHKD	3:30:00 PM	5.8598	5.8637			N/A
4/11/2019	CADHUF	9:30:00 AM	213.51	213.52			N/A
4/11/2019	CADHUF	11:30:00 AM	213.36	213.53			N/A
4/11/2019	CADHUF	1:30:00 PM	213.16	213.33			N/A
4/11/2019	CADHUF	3:30:00 PM	213.44	213.45			N/A
4/11/2019	CADJPY	9:30:00 AM	83.241	83.307			N/A
4/11/2019	CADJPY	11:30:00 AM	83.213	83.28			N/A
4/11/2019	CADJPY	1:30:00 PM	83.16	83.232			N/A
4/11/2019	CADJPY	3:30:00 PM	83.169	83.2			N/A
4/11/2019	CADJPY.fx	9:30:00 AM	83.274	83.272			N/A
4/11/2019	CADJPY.fx	11:30:00 AM	83.246	83.244			N/A
4/11/2019	CADJPY.fx	1:30:00 PM	83.193	83.197			N/A
4/11/2019	CADJPY.fx	3:30:00 PM	83.2	83.175			N/A
4/11/2019	CADMXN	9:30:00 AM	14.1096	14.1217			N/A
4/11/2019	CADMXN	11:30:00 AM	14.105	14.1163			N/A
4/11/2019	CADMXN	1:30:00 PM	14.1051	14.1164			N/A
4/11/2019	CADMXN	3:30:00 PM	14.1165	14.1197			N/A
4/11/2019	CADNOK	9:30:00 AM	6.3648	6.3696			N/A
4/11/2019	CADNOK	11:30:00 AM	6.3691	6.3727			N/A

4/11/2019	CADNOK	1:30:00 PM	6.3624	6.367			N/A
4/11/2019	CADNOK	3:30:00 PM	6.3647	6.3638			N/A
4/11/2019	CADPLN	9:30:00 AM	2.8432	2.8451			N/A
4/11/2019	CADPLN	11:30:00 AM	2.8428	2.8447			N/A
4/11/2019	CADPLN	1:30:00 PM	2.8419	2.8438			N/A
4/11/2019	CADPLN	3:30:00 PM	2.8421	2.8422			N/A
4/11/2019	CADSEK	9:30:00 AM	6.9417	6.9449			N/A
4/11/2019	CADSEK	11:30:00 AM	6.9403	6.9431			N/A
4/11/2019	CADSEK	1:30:00 PM	6.935	6.9384			N/A
4/11/2019	CADSEK	3:30:00 PM	6.9279	6.9303			N/A
4/11/2019	CADSGD	9:30:00 AM	1.0136	1.0139			N/A
4/11/2019	CADSGD	11:30:00 AM	1.013	1.0133			N/A
4/11/2019	CADSGD	1:30:00 PM	1.0125	1.0128			N/A
4/11/2019	CADSGD	3:30:00 PM	1.0117	1.012			N/A
4/11/2019	CADZAR	9:30:00 AM	10.4269	10.4433			N/A
4/11/2019	CADZAR	11:30:00 AM	10.4169	10.4301			N/A
4/11/2019	CADZAR	1:30:00 PM	10.428	10.4453			N/A
4/11/2019	CADZAR	3:30:00 PM	10.4827	10.4914			N/A
4/11/2019	CHFCZK	9:30:00 AM	22.621	22.637			N/A
4/11/2019	CHFCZK	11:30:00 AM	22.638	22.654			N/A
4/11/2019	CHFCZK	1:30:00 PM	22.636	22.653			N/A
4/11/2019	CHFCZK	3:30:00 PM	22.644	22.644			N/A
4/11/2019	CHFDKK	9:30:00 AM	6.604	6.608			N/A
4/11/2019	CHFDKK	11:30:00 AM	6.608	6.611			N/A
4/11/2019	CHFDKK	1:30:00 PM					N/A
4/11/2019	CHFDKK	3:30:00 PM	6.602	6.604			N/A
4/11/2019	CHFDKK.fx	9:30:00 AM	6.6025	6.6085			N/A
4/11/2019	CHFDKK.fx	11:30:00 AM	6.6067	6.6125			N/A
4/11/2019	CHFDKK.fx	1:30:00 PM	6.6039	6.6104			N/A
4/11/2019	CHFDKK.fx	3:30:00 PM	6.6001	6.6053			N/A
4/11/2019	CHFHKD	9:30:00 AM	7.8226	7.8265			N/A
4/11/2019	CHFHKD	11:30:00 AM	7.8298	7.8337			N/A
4/11/2019	CHFHKD	1:30:00 PM	7.8266	7.83			N/A
4/11/2019	CHFHKD	3:30:00 PM	7.8112	7.8127			N/A

4/11/2019	CHFHUF	9:30:00 AM	284.18	284.41			N/A
4/11/2019	CHFHUF	11:30:00 AM	284.43	284.8			N/A
4/11/2019	CHFHUF	1:30:00 PM	284.09	284.49			N/A
4/11/2019	CHFHUF	3:30:00 PM	284.32	284.54			N/A
4/11/2019	CHFJPY	9:30:00 AM	110.834	110.905			N/A
4/11/2019	CHFJPY	11:30:00 AM	110.957	111.02			N/A
4/11/2019	CHFJPY	1:30:00 PM	110.877	110.938			N/A
4/11/2019	CHFJPY	3:30:00 PM	110.826	110.864			N/A
4/11/2019	CHFJPY.fx	9:30:00 AM	110.868	110.87			N/A
4/11/2019	CHFJPY.fx	11:30:00 AM	110.991	110.986			N/A
4/11/2019	CHFJPY.fx	1:30:00 PM	110.911	110.902			N/A
4/11/2019	CHFJPY.fx	3:30:00 PM	110.856	110.831			N/A
4/11/2019	CHFMXN	9:30:00 AM	18.7865	18.8019			N/A
4/11/2019	CHFMXN	11:30:00 AM	18.8071	18.8225			N/A
4/11/2019	CHFMXN	1:30:00 PM	18.8041	18.8198			N/A
4/11/2019	CHFMXN	3:30:00 PM	18.8092	18.8148			N/A
4/11/2019	CHFNOK	9:30:00 AM	8.475	8.4823			N/A
4/11/2019	CHFNOK	11:30:00 AM	8.4916	8.4987			N/A
4/11/2019	CHFNOK	1:30:00 PM	8.4821	8.4903			N/A
4/11/2019	CHFNOK	3:30:00 PM	8.4833	8.4884			N/A
4/11/2019	CHFNOK.fx	9:30:00 AM	8.47833	8.47896			N/A
4/11/2019	CHFNOK.fx	11:30:00 AM	8.49496	8.49527			N/A
4/11/2019	CHFNOK.fx	1:30:00 PM	8.48547	8.48696			N/A
4/11/2019	CHFNOK.fx	3:30:00 PM	8.48665	8.4854			N/A
4/11/2019	CHFPLN	9:30:00 AM	3.7854	3.7884			N/A
4/11/2019	CHFPLN	11:30:00 AM	3.7902	3.7932			N/A
4/11/2019	CHFPLN	1:30:00 PM	3.7884	3.7916			N/A
4/11/2019	CHFPLN	3:30:00 PM	3.7878	3.7903			N/A
4/11/2019	CHFPLN.fx	9:30:00 AM	3.78306	3.79075			N/A
4/11/2019	CHFPLN.fx	11:30:00 AM	3.78786	3.79555			N/A
4/11/2019	CHFPLN.fx	1:30:00 PM	3.78606	3.79385			N/A
4/11/2019	CHFPLN.fx	3:30:00 PM	3.78518	3.79273			N/A
4/11/2019	CHFSEK	9:30:00 AM	9.2431	9.2465			N/A
4/11/2019	CHFSEK	11:30:00 AM	9.2545	9.257			N/A

4/11/2019	CHFSEK	1:30:00 PM	9.2457	9.25			N/A
4/11/2019	CHFSEK	3:30:00 PM	9.2324	9.2364			N/A
4/11/2019	CHFSGD	9:30:00 AM	1.35	1.3505			N/A
4/11/2019	CHFSGD	11:30:00 AM	1.3515	1.352			N/A
4/11/2019	CHFSGD	1:30:00 PM	1.3505	1.3509			N/A
4/11/2019	CHFSGD	3:30:00 PM	1.3493	1.3493			N/A
4/11/2019	CHFSGD.fx	9:30:00 AM	1.3502	1.35033			N/A
4/11/2019	CHFSGD.fx	11:30:00 AM	1.35169	1.35179			N/A
4/11/2019	CHFSGD.fx	1:30:00 PM	1.3506	1.35077			N/A
4/11/2019	CHFSGD.fx	3:30:00 PM	1.3492	1.34913			N/A
4/11/2019	CHFZAR	9:30:00 AM	13.8878	13.8994			N/A
4/11/2019	CHFZAR	11:30:00 AM	13.8928	13.9035			N/A
4/11/2019	CHFZAR	1:30:00 PM	13.906	13.9216			N/A
4/11/2019	CHFZAR	3:30:00 PM	13.9708	13.9754			N/A
4/11/2019	CZKJPY	9:30:00 AM					N/A
4/11/2019	CZKJPY	11:30:00 AM					N/A
4/11/2019	CZKJPY	1:30:00 PM					N/A
4/11/2019	CZKJPY	3:30:00 PM	4.897	4.896			N/A
4/11/2019	DAX30.i	9:30:00 AM	11918.06	11916.71			N/A
4/11/2019	DAX30.i	11:30:00 AM	11877.46	11875.71			N/A
4/11/2019	DAX30.i	1:30:00 PM	11944.71	11943.21			N/A
4/11/2019	DAX30.i	3:30:00 PM	11954.46	11949.96			N/A
4/11/2019	DJ30.i	9:30:00 AM					N/A
4/11/2019	DJ30.i	11:30:00 AM					N/A
4/11/2019	DJ30.i	1:30:00 PM					N/A
4/11/2019	DJ30.i	3:30:00 PM					N/A
4/11/2019	DKKJPY	9:30:00 AM	16.78	16.8			N/A
4/11/2019	DKKJPY	11:30:00 AM					N/A
4/11/2019	DKKJPY	1:30:00 PM					N/A
4/11/2019	DKKJPY	3:30:00 PM	16.8	16.81			N/A
4/11/2019	EURAUD	9:30:00 AM	1.57454	1.57466			N/A
4/11/2019	EURAUD	11:30:00 AM	1.57568	1.57597			N/A
4/11/2019	EURAUD	1:30:00 PM	1.57459	1.57482			N/A
4/11/2019	EURAUD	3:30:00 PM	1.57565	1.57563			N/A

4/11/2019	EURAUD.fx	9:30:00 AM	1.57474	1.57445			N/A
4/11/2019	EURAUD.fx	11:30:00 AM	1.57589	1.57574			N/A
4/11/2019	EURAUD.fx	1:30:00 PM	1.5748	1.57459			N/A
4/11/2019	EURAUD.fx	3:30:00 PM	1.57583	1.57551			N/A
4/11/2019	EURCAD	9:30:00 AM	1.50421	1.50503			N/A
4/11/2019	EURCAD	11:30:00 AM	1.50537	1.50614			N/A
4/11/2019	EURCAD	1:30:00 PM	1.50575	1.50653			N/A
4/11/2019	EURCAD	3:30:00 PM	1.50608	1.50666			N/A
4/11/2019	EURCAD.fx	9:30:00 AM	1.50461	1.50462			N/A
4/11/2019	EURCAD.fx	11:30:00 AM	1.5058	1.50572			N/A
4/11/2019	EURCAD.fx	1:30:00 PM	1.50616	1.5061			N/A
4/11/2019	EURCAD.fx	3:30:00 PM	1.50647	1.50627			N/A
4/11/2019	EURCHF	9:30:00 AM	1.1301	1.13018			N/A
4/11/2019	EURCHF	11:30:00 AM	1.12935	1.12939			N/A
4/11/2019	EURCHF	1:30:00 PM	1.1297	1.12987			N/A
4/11/2019	EURCHF	3:30:00 PM	1.13057	1.13052			N/A
4/11/2019	EURCHF.fx	9:30:00 AM	1.13016	1.13014			N/A
4/11/2019	EURCHF.fx	11:30:00 AM	1.1294	1.12933			N/A
4/11/2019	EURCHF.fx	1:30:00 PM	1.12976	1.1298			N/A
4/11/2019	EURCHF.fx	3:30:00 PM	1.13061	1.13049			N/A
4/11/2019	EURCZK	9:30:00 AM	25.551	25.59			N/A
4/11/2019	EURCZK	11:30:00 AM					N/A
4/11/2019	EURCZK	1:30:00 PM	25.561	25.6			N/A
4/11/2019	EURCZK	3:30:00 PM	25.583	25.604			N/A
4/11/2019	EURDKK	9:30:00 AM					N/A
4/11/2019	EURDKK	11:30:00 AM	7.4639	7.4646			N/A
4/11/2019	EURDKK	1:30:00 PM	7.464	7.4644			N/A
4/11/2019	EURDKK	3:30:00 PM	7.4642	7.4653			N/A
4/11/2019	EURGBP	9:30:00 AM	0.86174	0.8617			N/A
4/11/2019	EURGBP	11:30:00 AM	0.86267	0.86253			N/A
4/11/2019	EURGBP	1:30:00 PM	0.86153	0.86158			N/A
4/11/2019	EURGBP	3:30:00 PM	0.8612	0.86101			N/A
4/11/2019	EURGBP.fx	9:30:00 AM	0.86176	0.86168			N/A
4/11/2019	EURGBP.fx	11:30:00 AM	0.8627	0.86249			N/A

4/11/2019	EURGBP.fx	1:30:00 PM	0.86156	0.86154			N/A
4/11/2019	EURGBP.fx	3:30:00 PM	0.86121	0.86103			N/A
4/11/2019	EURHKD	9:30:00 AM	8.841	8.8463			N/A
4/11/2019	EURHKD	11:30:00 AM	8.8434	8.8476			N/A
4/11/2019	EURHKD	1:30:00 PM	8.8422	8.8476			N/A
4/11/2019	EURHKD	3:30:00 PM	8.831	8.8329			N/A
4/11/2019	EURHKD.fx	9:30:00 AM	8.84352	8.84373			N/A
4/11/2019	EURHKD.fx	11:30:00 AM	8.84589	8.84505			N/A
4/11/2019	EURHKD.fx	1:30:00 PM	8.84477	8.84493			N/A
4/11/2019	EURHKD.fx	3:30:00 PM	8.83333	8.83036			N/A
4/11/2019	EURHUF	9:30:00 AM	321.12	321.64			N/A
4/11/2019	EURHUF	11:30:00 AM	321.15	321.88			N/A
4/11/2019	EURHUF	1:30:00 PM	320.92	321.52			N/A
4/11/2019	EURHUF	3:30:00 PM	321.41	322.09			N/A
4/11/2019	EURHUF.fx	9:30:00 AM	321.397	321.378			N/A
4/11/2019	EURHUF.fx	11:30:00 AM	321.431	321.58			N/A
4/11/2019	EURHUF.fx	1:30:00 PM	321.19	321.378			N/A
4/11/2019	EURHUF.fx	3:30:00 PM	321.69	321.82			N/A
4/11/2019	EURJPY	9:30:00 AM	125.298	125.298			N/A
4/11/2019	EURJPY	11:30:00 AM	125.349	125.348			N/A
4/11/2019	EURJPY	1:30:00 PM	125.301	125.302			N/A
4/11/2019	EURJPY	3:30:00 PM	125.326	125.297			N/A
4/11/2019	EURJPY.fx	9:30:00 AM	125.3	125.295			N/A
4/11/2019	EURJPY.fx	11:30:00 AM	125.351	125.345			N/A
4/11/2019	EURJPY.fx	1:30:00 PM	125.304	125.298			N/A
4/11/2019	EURJPY.fx	3:30:00 PM	125.326	125.296			N/A
4/11/2019	EURMXN	9:30:00 AM	21.2334	21.2507			N/A
4/11/2019	EURMXN	11:30:00 AM	21.2429	21.2617			N/A
4/11/2019	EURMXN	1:30:00 PM	21.2474	21.2667			N/A
4/11/2019	EURMXN	3:30:00 PM	21.2677	21.2754			N/A
4/11/2019	EURMXN.fx	9:30:00 AM	21.2419	21.2422			N/A
4/11/2019	EURMXN.fx	11:30:00 AM	21.2514	21.2532			N/A
4/11/2019	EURMXN.fx	1:30:00 PM	21.2557	21.2582			N/A
4/11/2019	EURMXN.fx	3:30:00 PM	21.2762	21.2669			N/A

4/11/2019	EURNOK	9:30:00 AM	9.5763	9.5881			N/A
4/11/2019	EURNOK	11:30:00 AM	9.5887	9.6001			N/A
4/11/2019	EURNOK	1:30:00 PM	9.5814	9.5936			N/A
4/11/2019	EURNOK	3:30:00 PM	9.5893	9.5989			N/A
4/11/2019	EURNOK.fx	9:30:00 AM	9.58151	9.58268			N/A
4/11/2019	EURNOK.fx	11:30:00 AM	9.59411	9.59467			N/A
4/11/2019	EURNOK.fx	1:30:00 PM	9.58681	9.5881			N/A
4/11/2019	EURNOK.fx	3:30:00 PM	9.5947	9.59349			N/A
4/11/2019	EURNZD	9:30:00 AM	1.66825	1.66895			N/A
4/11/2019	EURNZD	11:30:00 AM	1.66916	1.66987			N/A
4/11/2019	EURNZD	1:30:00 PM	1.66843	1.66907			N/A
4/11/2019	EURNZD	3:30:00 PM	1.67134	1.67093			N/A
4/11/2019	EURNZD.fx	9:30:00 AM	1.66867	1.66852			N/A
4/11/2019	EURNZD.fx	11:30:00 AM	1.66957	1.66944			N/A
4/11/2019	EURNZD.fx	1:30:00 PM	1.66886	1.66864			N/A
4/11/2019	EURNZD.fx	3:30:00 PM	1.67173	1.67055			N/A
4/11/2019	EURPLN	9:30:00 AM	4.2782	4.2814			N/A
4/11/2019	EURPLN	11:30:00 AM	4.2807	4.2839			N/A
4/11/2019	EURPLN	1:30:00 PM	4.2803	4.2836			N/A
4/11/2019	EURPLN	3:30:00 PM	4.2824	4.2853			N/A
4/11/2019	EURPLN.fx	9:30:00 AM	4.27747	4.28202			N/A
4/11/2019	EURPLN.fx	11:30:00 AM	4.27987	4.28452			N/A
4/11/2019	EURPLN.fx	1:30:00 PM	4.27967	4.28422			N/A
4/11/2019	EURPLN.fx	3:30:00 PM	4.28156	4.28601			N/A
4/11/2019	EURRUB	9:30:00 AM					N/A
4/11/2019	EURRUB	11:30:00 AM	72.242	72.669			N/A
4/11/2019	EURRUB	1:30:00 PM	72.258	72.684			N/A
4/11/2019	EURRUB	3:30:00 PM	72.307	72.732			N/A
4/11/2019	EURSEK	9:30:00 AM	10.4472	10.4501			N/A
4/11/2019	EURSEK	11:30:00 AM	10.4516	10.4552			N/A
4/11/2019	EURSEK	1:30:00 PM	10.4473	10.4516			N/A
4/11/2019	EURSEK	3:30:00 PM	10.44	10.444			N/A
4/11/2019	EURSEK.fx	9:30:00 AM	10.44885	10.44824			N/A
4/11/2019	EURSEK.fx	11:30:00 AM	10.45328	10.45334			N/A

4/11/2019	EURSEK.fx	1:30:00 PM	10.44884	10.45006			N/A
4/11/2019	EURSEK.fx	3:30:00 PM	10.44135	10.44233			N/A
4/11/2019	EURSGD	9:30:00 AM	1.5256	1.5264			N/A
4/11/2019	EURSGD	11:30:00 AM	1.5262	1.527			N/A
4/11/2019	EURSGD	1:30:00 PM	1.5256	1.5261			N/A
4/11/2019	EURSGD	3:30:00 PM	1.525	1.5256			N/A
4/11/2019	EURSGD.fx	9:30:00 AM	1.52598	1.52602			N/A
4/11/2019	EURSGD.fx	11:30:00 AM	1.5266	1.52657			N/A
4/11/2019	EURSGD.fx	1:30:00 PM	1.52596	1.52603			N/A
4/11/2019	EURSGD.fx	3:30:00 PM	1.52539	1.52519			N/A
4/11/2019	EURUSD	9:30:00 AM	1.12741	1.12751			N/A
4/11/2019	EURUSD	11:30:00 AM	1.12765	1.12763			N/A
4/11/2019	EURUSD	1:30:00 PM	1.12744	1.12754			N/A
4/11/2019	EURUSD	3:30:00 PM	1.12605	1.12571			N/A
4/11/2019	EURUSD.fx	9:30:00 AM	1.12761	1.1276			N/A
4/11/2019	EURUSD.fx	11:30:00 AM	1.12785	1.12772			N/A
4/11/2019	EURUSD.fx	1:30:00 PM	1.12765	1.12763			N/A
4/11/2019	EURUSD.fx	3:30:00 PM	1.12623	1.12582			N/A
4/11/2019	EURZAR	9:30:00 AM	15.6991	15.7156			N/A
4/11/2019	EURZAR	11:30:00 AM	15.6927	15.7077			N/A
4/11/2019	EURZAR	1:30:00 PM	15.7136	15.7346			N/A
4/11/2019	EURZAR	3:30:00 PM	15.799	15.8084			N/A
4/11/2019	EURZAR.fx	9:30:00 AM	15.6981	15.71662			N/A
4/11/2019	EURZAR.fx	11:30:00 AM	15.69184	15.70877			N/A
4/11/2019	EURZAR.fx	1:30:00 PM	15.71236	15.73542			N/A
4/11/2019	EURZAR.fx	3:30:00 PM	15.79821	15.80943			N/A
4/11/2019	GBPAUD	9:30:00 AM	1.82757	1.8282			N/A
4/11/2019	GBPAUD	11:30:00 AM	1.8274	1.82755			N/A
4/11/2019	GBPAUD	1:30:00 PM	1.82811	1.82871			N/A
4/11/2019	GBPAUD	3:30:00 PM	1.83039	1.83069			N/A
4/11/2019	GBPAUD.fx	9:30:00 AM	1.82794	1.82782			N/A
4/11/2019	GBPAUD.fx	11:30:00 AM	1.82781	1.82716			N/A
4/11/2019	GBPAUD.fx	1:30:00 PM	1.82851	1.82834			N/A
4/11/2019	GBPAUD.fx	3:30:00 PM	1.83071	1.83034			N/A

4/11/2019	GBPCAD	9:30:00 AM	1.74576	1.7463			N/A
4/11/2019	GBPCAD	11:30:00 AM	1.74536	1.74584			N/A
4/11/2019	GBPCAD	1:30:00 PM	1.74777	1.74848			N/A
4/11/2019	GBPCAD	3:30:00 PM	1.74936	1.74955			N/A
4/11/2019	GBPCAD.fx	9:30:00 AM	1.74611	1.74592			N/A
4/11/2019	GBPCAD.fx	11:30:00 AM	1.74573	1.74548			N/A
4/11/2019	GBPCAD.fx	1:30:00 PM	1.74815	1.74812			N/A
4/11/2019	GBPCAD.fx	3:30:00 PM	1.74959	1.74917			N/A
4/11/2019	GBPCHF	9:30:00 AM	1.31134	1.31166			N/A
4/11/2019	GBPCHF	11:30:00 AM	1.30917	1.30939			N/A
4/11/2019	GBPCHF	1:30:00 PM	1.31108	1.31154			N/A
4/11/2019	GBPCHF	3:30:00 PM	1.31287	1.31303			N/A
4/11/2019	GBPCHF.fx	9:30:00 AM	1.31151	1.31145			N/A
4/11/2019	GBPCHF.fx	11:30:00 AM	1.30936	1.30917			N/A
4/11/2019	GBPCHF.fx	1:30:00 PM	1.31133	1.31134			N/A
4/11/2019	GBPCHF.fx	3:30:00 PM	1.31301	1.31287			N/A
4/11/2019	GBPCZK	9:30:00 AM	29.664	29.68			N/A
4/11/2019	GBPCZK	11:30:00 AM	29.638	29.653			N/A
4/11/2019	GBPCZK	1:30:00 PM	29.68	29.701			N/A
4/11/2019	GBPCZK	3:30:00 PM	29.725	29.722			N/A
4/11/2019	GBPDKK	9:30:00 AM	8.659	8.669			N/A
4/11/2019	GBPDKK	11:30:00 AM	8.65	8.659			N/A
4/11/2019	GBPDKK	1:30:00 PM	8.659	8.67			N/A
4/11/2019	GBPDKK	3:30:00 PM	8.665	8.674			N/A
4/11/2019	GBPDKK.fx	9:30:00 AM	8.6574	8.6691			N/A
4/11/2019	GBPDKK.fx	11:30:00 AM	8.6486	8.6591			N/A
4/11/2019	GBPDKK.fx	1:30:00 PM	8.6574	8.6708			N/A
4/11/2019	GBPDKK.fx	3:30:00 PM	8.6636	8.6741			N/A
4/11/2019	GBPHKD	9:30:00 AM	10.2586	10.2626			N/A
4/11/2019	GBPHKD	11:30:00 AM	10.2499	10.2544			N/A
4/11/2019	GBPHKD	1:30:00 PM	10.2612	10.266			N/A
4/11/2019	GBPHKD	3:30:00 PM	10.2525	10.2541			N/A
4/11/2019	GBPHUF	9:30:00 AM	372.66	372.87			N/A
4/11/2019	GBPHUF	11:30:00 AM	372.39	372.75			N/A

4/11/2019	GBPHUF	1:30:00 PM	372.51	372.96			N/A
4/11/2019	GBPHUF	3:30:00 PM	373.25	373.47			N/A
4/11/2019	GBPJPY	9:30:00 AM	145.393	145.42			N/A
4/11/2019	GBPJPY	11:30:00 AM	145.314	145.312			N/A
4/11/2019	GBPJPY	1:30:00 PM	145.416	145.448			N/A
4/11/2019	GBPJPY	3:30:00 PM	145.531	145.514			N/A
4/11/2019	GBPJPY.fx	9:30:00 AM	145.411	145.401			N/A
4/11/2019	GBPJPY.fx	11:30:00 AM	145.33	145.294			N/A
4/11/2019	GBPJPY.fx	1:30:00 PM	145.434	145.429			N/A
4/11/2019	GBPJPY.fx	3:30:00 PM	145.546	145.495			N/A
4/11/2019	GBPMXN	9:30:00 AM	24.6375	24.6497			N/A
4/11/2019	GBPMXN	11:30:00 AM	24.6254	24.6331			N/A
4/11/2019	GBPMXN	1:30:00 PM	24.6569	24.6716			N/A
4/11/2019	GBPMXN	3:30:00 PM	24.6952	24.6935			N/A
4/11/2019	GBPNOK	9:30:00 AM	11.1146	11.1242			N/A
4/11/2019	GBPNOK	11:30:00 AM	11.1185	11.1264			N/A
4/11/2019	GBPNOK	1:30:00 PM	11.1225	11.134			N/A
4/11/2019	GBPNOK	3:30:00 PM	11.1397	11.1447			N/A
4/11/2019	GBPNOK.fx	9:30:00 AM	11.11927	11.11949			N/A
4/11/2019	GBPNOK.fx	11:30:00 AM	11.1234	11.12144			N/A
4/11/2019	GBPNOK.fx	1:30:00 PM	11.12754	11.1291			N/A
4/11/2019	GBPNOK.fx	3:30:00 PM	11.14223	11.13987			N/A
4/11/2019	GBPNZD	9:30:00 AM	1.93621	1.93663			N/A
4/11/2019	GBPNZD	11:30:00 AM	1.93532	1.93555			N/A
4/11/2019	GBPNZD	1:30:00 PM	1.93653	1.93722			N/A
4/11/2019	GBPNZD	3:30:00 PM	1.94112	1.94066			N/A
4/11/2019	GBPNZD.fx	9:30:00 AM	1.93659	1.93628			N/A
4/11/2019	GBPNZD.fx	11:30:00 AM	1.93568	1.93518			N/A
4/11/2019	GBPNZD.fx	1:30:00 PM	1.93691	1.93685			N/A
4/11/2019	GBPNZD.fx	3:30:00 PM	1.94142	1.94039			N/A
4/11/2019	GBPPLN	9:30:00 AM	4.9659	4.967			N/A
4/11/2019	GBPPLN	11:30:00 AM	4.9639	4.9647			N/A
4/11/2019	GBPPLN	1:30:00 PM	4.9692	4.9708			N/A
4/11/2019	GBPPLN	3:30:00 PM	4.9743	4.9751			N/A

4/11/2019	GBPPLN.fx	9:30:00 AM	4.96358	4.96907			N/A
4/11/2019	GBPPLN.fx	11:30:00 AM	4.96196	4.96685			N/A
4/11/2019	GBPPLN.fx	1:30:00 PM	4.96696	4.97306			N/A
4/11/2019	GBPPLN.fx	3:30:00 PM	4.97162	4.97734			N/A
4/11/2019	GBPSEK	9:30:00 AM	12.1219	12.1288			N/A
4/11/2019	GBPSEK	11:30:00 AM	12.1164	12.1206			N/A
4/11/2019	GBPSEK	1:30:00 PM	12.124	12.1327			N/A
4/11/2019	GBPSEK	3:30:00 PM	12.1237	12.1285			N/A
4/11/2019	GBPSEK.fx	9:30:00 AM	12.11825	12.13247			N/A
4/11/2019	GBPSEK.fx	11:30:00 AM	12.11242	12.12437			N/A
4/11/2019	GBPSEK.fx	1:30:00 PM	12.12033	12.1364			N/A
4/11/2019	GBPSEK.fx	3:30:00 PM	12.11912	12.13228			N/A
4/11/2019	GBPSGD	9:30:00 AM	1.7706	1.7712			N/A
4/11/2019	GBPSGD	11:30:00 AM	1.7696	1.77			N/A
4/11/2019	GBPSGD	1:30:00 PM	1.7708	1.7715			N/A
4/11/2019	GBPSGD	3:30:00 PM	1.7713	1.7716			N/A
4/11/2019	GBPSGD.fx	9:30:00 AM	1.76881	1.77301			N/A
4/11/2019	GBPSGD.fx	11:30:00 AM	1.76778	1.77175			N/A
4/11/2019	GBPSGD.fx	1:30:00 PM	1.76896	1.77334			N/A
4/11/2019	GBPSGD.fx	3:30:00 PM	1.76934	1.77336			N/A
4/11/2019	GBPUSD	9:30:00 AM	1.30862	1.30851			N/A
4/11/2019	GBPUSD	11:30:00 AM	1.30756	1.30738			N/A
4/11/2019	GBPUSD	1:30:00 PM	1.30875	1.30882			N/A
4/11/2019	GBPUSD	3:30:00 PM	1.308	1.30742			N/A
4/11/2019	GBPUSD.fx	9:30:00 AM	1.30867	1.30845			N/A
4/11/2019	GBPUSD.fx	11:30:00 AM	1.30759	1.30732			N/A
4/11/2019	GBPUSD.fx	1:30:00 PM	1.30882	1.30878			N/A
4/11/2019	GBPUSD.fx	3:30:00 PM	1.30794	1.3074			N/A
4/11/2019	GBPZAR	9:30:00 AM	18.2147	18.2387			N/A
4/11/2019	GBPZAR	11:30:00 AM	18.1915	18.2111			N/A
4/11/2019	GBPZAR	1:30:00 PM	18.2355	18.2651			N/A
4/11/2019	GBPZAR	3:30:00 PM	18.3441	18.3615			N/A
4/11/2019	GBPZAR.fx	9:30:00 AM	18.2211	18.2318			N/A
4/11/2019	GBPZAR.fx	11:30:00 AM	18.1988	18.204			N/A

4/11/2019	GBPZAR.fx	1:30:00 PM	18.2429	18.2575			N/A
4/11/2019	GBPZAR.fx	3:30:00 PM	18.3508	18.3541			N/A
4/11/2019	GOLD	9:30:00 AM	1306.93	1307.19			N/A
4/11/2019	GOLD	11:30:00 AM	1303.95	1304.04			N/A
4/11/2019	GOLD	1:30:00 PM	1304.05	1304.17			N/A
4/11/2019	GOLD	3:30:00 PM	1298.91	1298.22			N/A
4/11/2019	HKDJPY	9:30:00 AM	14.17	14.18			N/A
4/11/2019	HKDJPY	11:30:00 AM	14.17	14.19			N/A
4/11/2019	HKDJPY	1:30:00 PM	14.17	14.18			N/A
4/11/2019	HKDJPY	3:30:00 PM	14.18	14.2			N/A
4/11/2019	HKDJPY.fx	9:30:00 AM	14.164	14.17			N/A
4/11/2019	HKDJPY.fx	11:30:00 AM	14.166	14.173			N/A
4/11/2019	HKDJPY.fx	1:30:00 PM	14.162	14.169			N/A
4/11/2019	HKDJPY.fx	3:30:00 PM	14.188	14.189			N/A
4/11/2019	HUFJPY	9:30:00 AM	0.3902	0.3905			N/A
4/11/2019	HUFJPY	11:30:00 AM	0.3901	0.3904			N/A
4/11/2019	HUFJPY	1:30:00 PM	0.3902	0.3905			N/A
4/11/2019	HUFJPY	3:30:00 PM	0.3898	0.3901			N/A
4/11/2019	JP225.i	9:30:00 AM	21667.37	21687.37			N/A
4/11/2019	JP225.i	11:30:00 AM	21632.37	21649.04			N/A
4/11/2019	JP225.i	1:30:00 PM					N/A
4/11/2019	JP225.i	3:30:00 PM	21682.37	21694.87			N/A
4/11/2019	MXNJPY	9:30:00 AM	5.9	5.91			N/A
4/11/2019	MXNJPY	11:30:00 AM	5.9	5.91			N/A
4/11/2019	MXNJPY	1:30:00 PM	5.9	5.9			N/A
4/11/2019	MXNJPY	3:30:00 PM	5.89	5.9			N/A
4/11/2019	NASDAQ.i	9:30:00 AM					N/A
4/11/2019	NASDAQ.i	11:30:00 AM					N/A
4/11/2019	NASDAQ.i	1:30:00 PM					N/A
4/11/2019	NASDAQ.i	3:30:00 PM					N/A
4/11/2019	NOKJPY	9:30:00 AM	13.07	13.1			N/A
4/11/2019	NOKJPY	11:30:00 AM	13.06	13.08			N/A
4/11/2019	NOKJPY	1:30:00 PM	13.06	13.09			N/A
4/11/2019	NOKJPY	3:30:00 PM	13.05	13.08			N/A

4/11/2019	NOKJPY.fx	9:30:00 AM	13.073	13.08			N/A
4/11/2019	NOKJPY.fx	11:30:00 AM	13.062	13.068			N/A
4/11/2019	NOKJPY.fx	1:30:00 PM	13.065	13.073			N/A
4/11/2019	NOKJPY.fx	3:30:00 PM	13.06	13.064			N/A
4/11/2019	NZDCAD	9:30:00 AM	0.90141	0.902			N/A
4/11/2019	NZDCAD	11:30:00 AM	0.90159	0.90226			N/A
4/11/2019	NZDCAD	1:30:00 PM	0.90219	0.90289			N/A
4/11/2019	NZDCAD	3:30:00 PM	0.90135	0.90133			N/A
4/11/2019	NZDCAD.fx	9:30:00 AM	0.90173	0.90168			N/A
4/11/2019	NZDCAD.fx	11:30:00 AM	0.90193	0.90193			N/A
4/11/2019	NZDCAD.fx	1:30:00 PM	0.90252	0.90256			N/A
4/11/2019	NZDCAD.fx	3:30:00 PM	0.90157	0.90101			N/A
4/11/2019	NZDCHF	9:30:00 AM	0.67696	0.67762			N/A
4/11/2019	NZDCHF	11:30:00 AM	0.67613	0.67682			N/A
4/11/2019	NZDCHF	1:30:00 PM	0.67666	0.67738			N/A
4/11/2019	NZDCHF	3:30:00 PM	0.67634	0.67668			N/A
4/11/2019	NZDCHF.fx	9:30:00 AM	0.6773	0.67727			N/A
4/11/2019	NZDCHF.fx	11:30:00 AM	0.67646	0.67647			N/A
4/11/2019	NZDCHF.fx	1:30:00 PM	0.67702	0.67702			N/A
4/11/2019	NZDCHF.fx	3:30:00 PM	0.67664	0.67624			N/A
4/11/2019	NZDCZK	9:30:00 AM	15.318	15.328			N/A
4/11/2019	NZDCZK	11:30:00 AM	15.31	15.322			N/A
4/11/2019	NZDCZK	1:30:00 PM	15.323	15.334			N/A
4/11/2019	NZDCZK	3:30:00 PM	15.318	15.309			N/A
4/11/2019	NZDDKK	9:30:00 AM					N/A
4/11/2019	NZDDKK	11:30:00 AM					N/A
4/11/2019	NZDDKK	1:30:00 PM					N/A
4/11/2019	NZDDKK	3:30:00 PM	4.464	4.465			N/A
4/11/2019	NZDHKD	9:30:00 AM	5.2972	5.3001			N/A
4/11/2019	NZDHKD	11:30:00 AM	5.295	5.297			N/A
4/11/2019	NZDHKD	1:30:00 PM	5.2972	5.2999			N/A
4/11/2019	NZDHKD	3:30:00 PM	5.2841	5.2816			N/A
4/11/2019	NZDHUF	9:30:00 AM	192.42	192.61			N/A
4/11/2019	NZDHUF	11:30:00 AM	192.33	192.63			N/A

4/11/2019	NZDHUF	1:30:00 PM	192.3	192.57			N/A
4/11/2019	NZDHUF	3:30:00 PM	192.28	192.39			N/A
4/11/2019	NZDJPY	9:30:00 AM	75.058	75.122			N/A
4/11/2019	NZDJPY	11:30:00 AM	75.044	75.116			N/A
4/11/2019	NZDJPY	1:30:00 PM	75.05	75.121			N/A
4/11/2019	NZDJPY	3:30:00 PM	74.978	75.009			N/A
4/11/2019	NZDJPY.fx	9:30:00 AM	75.089	75.09			N/A
4/11/2019	NZDJPY.fx	11:30:00 AM	75.077	75.082			N/A
4/11/2019	NZDJPY.fx	1:30:00 PM	75.082	75.088			N/A
4/11/2019	NZDJPY.fx	3:30:00 PM	75.007	74.978			N/A
4/11/2019	NZDMXN	9:30:00 AM	12.7232	12.7286			N/A
4/11/2019	NZDMXN	11:30:00 AM	12.721	12.727			N/A
4/11/2019	NZDMXN	1:30:00 PM	12.7301	12.7354			N/A
4/11/2019	NZDMXN	3:30:00 PM	12.7233	12.718			N/A
4/11/2019	NZDNOK	9:30:00 AM	5.7384	5.7422			N/A
4/11/2019	NZDNOK	11:30:00 AM	5.744	5.7465			N/A
4/11/2019	NZDNOK	1:30:00 PM	5.7414	5.745			N/A
4/11/2019	NZDNOK	3:30:00 PM	5.7365	5.7357			N/A
4/11/2019	NZDPLN	9:30:00 AM	2.5635	2.5649			N/A
4/11/2019	NZDPLN	11:30:00 AM	2.5635	2.5649			N/A
4/11/2019	NZDPLN	1:30:00 PM	2.5646	2.5658			N/A
4/11/2019	NZDPLN	3:30:00 PM	2.561	2.561			N/A
4/11/2019	NZDSEK	9:30:00 AM	6.2565	6.2632			N/A
4/11/2019	NZDSEK	11:30:00 AM	6.2561	6.2628			N/A
4/11/2019	NZDSEK	1:30:00 PM	6.2562	6.2627			N/A
4/11/2019	NZDSEK	3:30:00 PM	6.2431	6.2459			N/A
4/11/2019	NZDSGD	9:30:00 AM	0.9143	0.9148			N/A
4/11/2019	NZDSGD	11:30:00 AM	0.9141	0.9148			N/A
4/11/2019	NZDSGD	1:30:00 PM	0.9142	0.9148			N/A
4/11/2019	NZDSGD	3:30:00 PM	0.9127	0.9127			N/A
4/11/2019	NZDSGD.fx	9:30:00 AM	0.91428	0.91476			N/A
4/11/2019	NZDSGD.fx	11:30:00 AM	0.91409	0.91468			N/A
4/11/2019	NZDSGD.fx	1:30:00 PM	0.91415	0.91468			N/A
4/11/2019	NZDSGD.fx	3:30:00 PM	0.9127	0.91258			N/A

4/11/2019	NZDUSD	9:30:00 AM	0.67568	0.67577			N/A
4/11/2019	NZDUSD	11:30:00 AM	0.67545	0.67557			N/A
4/11/2019	NZDUSD	1:30:00 PM	0.67561	0.67572			N/A
4/11/2019	NZDUSD	3:30:00 PM	0.67396	0.67339			N/A
4/11/2019	NZDUSD.fx	9:30:00 AM	0.67575	0.67579			N/A
4/11/2019	NZDUSD.fx	11:30:00 AM	0.67552	0.67557			N/A
4/11/2019	NZDUSD.fx	1:30:00 PM	0.6757	0.67572			N/A
4/11/2019	NZDUSD.fx	3:30:00 PM	0.67404	0.67342			N/A
4/11/2019	NZDZAR	9:30:00 AM	9.3999	9.4157			N/A
4/11/2019	NZDZAR	11:30:00 AM	9.3919	9.4061			N/A
4/11/2019	NZDZAR	1:30:00 PM	9.4091	9.4262			N/A
4/11/2019	NZDZAR	3:30:00 PM	9.4457	9.4503			N/A
4/11/2019	SEKJPY	9:30:00 AM	11.99	12			N/A
4/11/2019	SEKJPY	11:30:00 AM	11.99	12			N/A
4/11/2019	SEKJPY	1:30:00 PM					N/A
4/11/2019	SEKJPY	3:30:00 PM	12	12.01			N/A
4/11/2019	SEKJPY.fx	9:30:00 AM	11.982	11.999			N/A
4/11/2019	SEKJPY.fx	11:30:00 AM	11.981	12			N/A
4/11/2019	SEKJPY.fx	1:30:00 PM	11.981	12			N/A
4/11/2019	SEKJPY.fx	3:30:00 PM	11.993	12.009			N/A
4/11/2019	SGDJPY	9:30:00 AM	82.08	82.11			N/A
4/11/2019	SGDJPY	11:30:00 AM	82.11	82.11			N/A
4/11/2019	SGDJPY	1:30:00 PM	82.1	82.11			N/A
4/11/2019	SGDJPY	3:30:00 PM	82.14	82.14			N/A
4/11/2019	SILVER	9:30:00 AM	15.04	15.42			N/A
4/11/2019	SILVER	11:30:00 AM	14.96	15.34			N/A
4/11/2019	SILVER	1:30:00 PM	14.95	15.34			N/A
4/11/2019	SILVER	3:30:00 PM	14.86	15.24			N/A
4/11/2019	SPX500.i	9:30:00 AM	2891.65	2892.45			N/A
4/11/2019	SPX500.i	11:30:00 AM	2887.9	2888.95			N/A
4/11/2019	SPX500.i	1:30:00 PM	2893.74	2894.7			N/A
4/11/2019	SPX500.i	3:30:00 PM	2892.9	2893.45			N/A
4/11/2019	UK100.i	9:30:00 AM	7419.65	7421.48			N/A
4/11/2019	UK100.i	11:30:00 AM	7416.4	7414.9			N/A

4/11/2019	UK100.i	1:30:00 PM	7433.4	7433.4			N/A
4/11/2019	UK100.i	3:30:00 PM	7432.4	7432.65			N/A
4/11/2019	USDCAD	9:30:00 AM	1.3344	1.33447			N/A
4/11/2019	USDCAD	11:30:00 AM	1.33517	1.33525			N/A
4/11/2019	USDCAD	1:30:00 PM	1.33572	1.33574			N/A
4/11/2019	USDCAD	3:30:00 PM	1.33794	1.33776			N/A
4/11/2019	USDCAD.fx	9:30:00 AM	1.33443	1.33442			N/A
4/11/2019	USDCAD.fx	11:30:00 AM	1.33519	1.33521			N/A
4/11/2019	USDCAD.fx	1:30:00 PM	1.33574	1.33571			N/A
4/11/2019	USDCAD.fx	3:30:00 PM	1.33795	1.33783			N/A
4/11/2019	USDCHF	9:30:00 AM	1.00221	1.00231			N/A
4/11/2019	USDCHF	11:30:00 AM	1.00133	1.00146			N/A
4/11/2019	USDCHF	1:30:00 PM	1.00186	1.00197			N/A
4/11/2019	USDCHF	3:30:00 PM	1.00407	1.00378			N/A
4/11/2019	USDCHF.fx	9:30:00 AM	1.00226	1.00225			N/A
4/11/2019	USDCHF.fx	11:30:00 AM	1.00138	1.00141			N/A
4/11/2019	USDCHF.fx	1:30:00 PM	1.00191	1.00191			N/A
4/11/2019	USDCHF.fx	3:30:00 PM	1.00411	1.00377			N/A
4/11/2019	USDCZK	9:30:00 AM	22.684	22.706			N/A
4/11/2019	USDCZK	11:30:00 AM	22.682	22.704			N/A
4/11/2019	USDCZK	1:30:00 PM	22.692	22.716			N/A
4/11/2019	USDCZK	3:30:00 PM	22.749	22.762			N/A
4/11/2019	USDCZK.fx	9:30:00 AM	22.6921	22.6976			N/A
4/11/2019	USDCZK.fx	11:30:00 AM	22.6921	22.6955			N/A
4/11/2019	USDCZK.fx	1:30:00 PM	22.7008	22.7076			N/A
4/11/2019	USDCZK.fx	3:30:00 PM	22.7568	22.7537			N/A
4/11/2019	USDDKK	9:30:00 AM	6.6191	6.6232			N/A
4/11/2019	USDDKK	11:30:00 AM	6.6177	6.6212			N/A
4/11/2019	USDDKK	1:30:00 PM	6.6185	6.6226			N/A
4/11/2019	USDDKK	3:30:00 PM	6.6294	6.6312			N/A
4/11/2019	USDDKK.fx	9:30:00 AM	6.61964	6.62109			N/A
4/11/2019	USDDKK.fx	11:30:00 AM	6.6185	6.61922			N/A
4/11/2019	USDDKK.fx	1:30:00 PM	6.61914	6.62056			N/A
4/11/2019	USDDKK.fx	3:30:00 PM	6.62983	6.62914			N/A

4/11/2019	USDHKD	9:30:00 AM	7.8426	7.8431			N/A
4/11/2019	USDHKD	11:30:00 AM	7.843	7.8433			N/A
4/11/2019	USDHKD	1:30:00 PM	7.8435	7.8437			N/A
4/11/2019	USDHKD	3:30:00 PM	7.8432	7.8435			N/A
4/11/2019	USDHKD.fx	9:30:00 AM	7.84257	7.84303			N/A
4/11/2019	USDHKD.fx	11:30:00 AM	7.84293	7.84351			N/A
4/11/2019	USDHKD.fx	1:30:00 PM	7.84339	7.84395			N/A
4/11/2019	USDHKD.fx	3:30:00 PM	7.84317	7.8436			N/A
4/11/2019	USDHUF	9:30:00 AM	284.87	285.17			N/A
4/11/2019	USDHUF	11:30:00 AM	284.85	285.31			N/A
4/11/2019	USDHUF	1:30:00 PM	284.69	285.16			N/A
4/11/2019	USDHUF	3:30:00 PM	285.53	285.88			N/A
4/11/2019	USDHUF.fx	9:30:00 AM	285.078	284.953			N/A
4/11/2019	USDHUF.fx	11:30:00 AM	285.073	285.097			N/A
4/11/2019	USDHUF.fx	1:30:00 PM	284.883	284.965			N/A
4/11/2019	USDHUF.fx	3:30:00 PM	285.735	285.676			N/A
4/11/2019	USDINR	9:30:00 AM	64	73.98			N/A
4/11/2019	USDINR	11:30:00 AM	63.92	73.9			N/A
4/11/2019	USDINR	1:30:00 PM					N/A
4/11/2019	USDINR	3:30:00 PM					N/A
4/11/2019	USDJPY	9:30:00 AM	111.112	111.122			N/A
4/11/2019	USDJPY	11:30:00 AM	111.139	111.143			N/A
4/11/2019	USDJPY	1:30:00 PM	111.115	111.124			N/A
4/11/2019	USDJPY	3:30:00 PM	111.315	111.249			N/A
4/11/2019	USDJPY.fx	9:30:00 AM	111.119	111.114			N/A
4/11/2019	USDJPY.fx	11:30:00 AM	111.145	111.136			N/A
4/11/2019	USDJPY.fx	1:30:00 PM	111.12	111.117			N/A
4/11/2019	USDJPY.fx	3:30:00 PM	111.32	111.245			N/A
4/11/2019	USDMXN	9:30:00 AM	18.835	18.841			N/A
4/11/2019	USDMXN	11:30:00 AM	18.84	18.846			N/A
4/11/2019	USDMXN	1:30:00 PM	18.846	18.854			N/A
4/11/2019	USDMXN	3:30:00 PM	18.893	18.891			N/A
4/11/2019	USDMXN.f	9:30:00 AM	18.8378	18.8373			N/A
4/11/2019	USDMXN.f	11:30:00 AM	18.8436	18.8422			N/A

4/11/2019	USDMXN.f	1:30:00 PM	18.8497	18.8503			N/A
4/11/2019	USDMXN.f	3:30:00 PM	18.8966	18.8868			N/A
4/11/2019	USDNOK	9:30:00 AM	8.4938	8.502			N/A
4/11/2019	USDNOK	11:30:00 AM	8.5035	8.511			N/A
4/11/2019	USDNOK	1:30:00 PM	8.4983	8.5071			N/A
4/11/2019	USDNOK	3:30:00 PM	8.5182	8.5229			N/A
4/11/2019	USDNOK.fx	9:30:00 AM	8.4978	8.49769			N/A
4/11/2019	USDNOK.fx	11:30:00 AM	8.50764	8.50658			N/A
4/11/2019	USDNOK.fx	1:30:00 PM	8.50216	8.50277			N/A
4/11/2019	USDNOK.fx	3:30:00 PM	8.52205	8.5187			N/A
4/11/2019	USDPLN	9:30:00 AM	3.7946	3.7962			N/A
4/11/2019	USDPLN	11:30:00 AM	3.7964	3.7976			N/A
4/11/2019	USDPLN	1:30:00 PM	3.7965	3.7982			N/A
4/11/2019	USDPLN	3:30:00 PM	3.8041	3.8043			N/A
4/11/2019	USDPLN.fx	9:30:00 AM	3.79385	3.79693			N/A
4/11/2019	USDPLN.fx	11:30:00 AM	3.79548	3.79841			N/A
4/11/2019	USDPLN.fx	1:30:00 PM	3.79566	3.79893			N/A
4/11/2019	USDPLN.fx	3:30:00 PM	3.80307	3.80521			N/A
4/11/2019	USDRUB	9:30:00 AM					N/A
4/11/2019	USDRUB	11:30:00 AM	64.179	64.556			N/A
4/11/2019	USDRUB	1:30:00 PM	64.201	64.582			N/A
4/11/2019	USDRUB	3:30:00 PM	64.34	64.718			N/A
4/11/2019	USDSEK	9:30:00 AM	9.2646	9.2675			N/A
4/11/2019	USDSEK	11:30:00 AM	9.2674	9.2699			N/A
4/11/2019	USDSEK	1:30:00 PM	9.2643	9.2685			N/A
4/11/2019	USDSEK	3:30:00 PM	9.272	9.2735			N/A
4/11/2019	USDSEK.fx	9:30:00 AM	9.26706	9.26575			N/A
4/11/2019	USDSEK.fx	11:30:00 AM	9.26986	9.26805			N/A
4/11/2019	USDSEK.fx	1:30:00 PM	9.26686	9.26669			N/A
4/11/2019	USDSEK.fx	3:30:00 PM	9.27448	9.27161			N/A
4/11/2019	USDSGD	9:30:00 AM	1.3531	1.3535			N/A
4/11/2019	USDSGD	11:30:00 AM	1.3534	1.3537			N/A
4/11/2019	USDSGD	1:30:00 PM	1.3531	1.3534			N/A
4/11/2019	USDSGD	3:30:00 PM	1.3545	1.3547			N/A

4/11/2019	USDSGD.fx	9:30:00 AM	1.35306	1.35355			N/A
4/11/2019	USDSGD.fx	11:30:00 AM	1.35336	1.35379			N/A
4/11/2019	USDSGD.fx	1:30:00 PM	1.35301	1.35354			N/A
4/11/2019	USDSGD.fx	3:30:00 PM	1.35442	1.35479			N/A
4/11/2019	USDZAR	9:30:00 AM	13.9218	13.9377			N/A
4/11/2019	USDZAR	11:30:00 AM	13.9147	13.9269			N/A
4/11/2019	USDZAR	1:30:00 PM	13.9349	13.954			N/A
4/11/2019	USDZAR	3:30:00 PM	14.0317	14.0417			N/A
4/11/2019	USDZAR.fx	9:30:00 AM					N/A
4/11/2019	USDZAR.fx	11:30:00 AM					N/A
4/11/2019	USDZAR.fx	1:30:00 PM					N/A
4/11/2019	USDZAR.fx	3:30:00 PM					N/A
4/11/2019	XAUUSD	9:30:00 AM	1306.92	1307.19			N/A
4/11/2019	XAUUSD	11:30:00 AM	1303.96	1304.04			N/A
4/11/2019	XAUUSD	1:30:00 PM	1304.05	1304.17			N/A
4/11/2019	XAUUSD	3:30:00 PM	1298.91	1298.24			N/A
4/11/2019	ZARJPY	9:30:00 AM	7.96	7.98			N/A
4/11/2019	ZARJPY	11:30:00 AM	7.97	7.98			N/A
4/11/2019	ZARJPY	1:30:00 PM	7.94	7.97			N/A
4/11/2019	ZARJPY	3:30:00 PM	7.91	7.93			N/A
4/11/2019	ZARJPY.fx	9:30:00 AM	7.975	7.979			N/A
4/11/2019	ZARJPY.fx	11:30:00 AM	7.982	7.985			N/A
4/11/2019	ZARJPY.fx	1:30:00 PM	7.966	7.972			N/A
4/11/2019	ZARJPY.fx	3:30:00 PM	7.929	7.928			N/A
4/12/2019	#AA	9:30:00 AM					N/A
4/12/2019	#AA	11:30:00 AM					N/A
4/12/2019	#AA	1:30:00 PM					N/A
4/12/2019	#AA	3:30:00 PM					N/A
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4/12/2019	#AAPL	11:30:00 AM					N/A
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4/12/2019	#BIDU	1:30:00 PM					N/A
4/12/2019	#BIDU	3:30:00 PM					N/A
4/12/2019	#Bitcoin	9:30:00 AM	5013.61	5088.36			N/A
4/12/2019	#Bitcoin	11:30:00 AM	5009.96	5084.71			N/A
4/12/2019	#Bitcoin	1:30:00 PM					N/A
4/12/2019	#Bitcoin	3:30:00 PM	5070.06	5139.96			N/A
4/12/2019	#BK	9:30:00 AM					N/A
4/12/2019	#BK	11:30:00 AM					N/A
4/12/2019	#BK	1:30:00 PM					N/A
4/12/2019	#BK	3:30:00 PM					N/A
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4/12/2019	#BLT	11:30:00 AM					N/A
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4/12/2019	#BLT	3:30:00 PM					N/A
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4/12/2019	#BP	3:30:00 PM					N/A
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4/12/2019	#BTA	11:30:00 AM					N/A

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4/12/2019	#BTA	3:30:00 PM					N/A
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4/12/2019	#C	11:30:00 AM					N/A
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4/12/2019	#C	3:30:00 PM					N/A
4/12/2019	#CAT	9:30:00 AM					N/A
4/12/2019	#CAT	11:30:00 AM					N/A
4/12/2019	#CAT	1:30:00 PM					N/A
4/12/2019	#CAT	3:30:00 PM					N/A
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4/12/2019	#CHL	11:30:00 AM					N/A
4/12/2019	#CHL	1:30:00 PM					N/A
4/12/2019	#CHL	3:30:00 PM					N/A
4/12/2019	#CL.f	9:30:00 AM	63.904	63.938			N/A
4/12/2019	#CL.f	11:30:00 AM	64.245	64.279			N/A
4/12/2019	#CL.f	1:30:00 PM	64.56	64.598			N/A
4/12/2019	#CL.f	3:30:00 PM	64.555	64.573			N/A
4/12/2019	#CMCSA	9:30:00 AM					N/A
4/12/2019	#CMCSA	11:30:00 AM					N/A
4/12/2019	#CMCSA	1:30:00 PM					N/A
4/12/2019	#CMCSA	3:30:00 PM					N/A
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4/12/2019	#CSCO	3:30:00 PM					N/A
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4/12/2019	#DD	11:30:00 AM					N/A
4/12/2019	#DD	1:30:00 PM					N/A
4/12/2019	#DD	3:30:00 PM					N/A

4/12/2019	#DIS	9:30:00 AM					N/A
4/12/2019	#DIS	11:30:00 AM					N/A
4/12/2019	#DIS	1:30:00 PM					N/A
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4/12/2019	AUDCHF.fx	11:30:00 AM	0.71553	0.71547			N/A
4/12/2019	AUDCHF.fx	1:30:00 PM	0.71738	0.71738			N/A
4/12/2019	AUDCHF.fx	3:30:00 PM	0.71809	0.71808			N/A
4/12/2019	AUDCZK	9:30:00 AM	16.172	16.172			N/A
4/12/2019	AUDCZK	11:30:00 AM	16.171	16.186			N/A
4/12/2019	AUDCZK	1:30:00 PM	16.215	16.232			N/A
4/12/2019	AUDCZK	3:30:00 PM	16.224	16.239			N/A
4/12/2019	AUDDKK	9:30:00 AM	4.7166	4.7168			N/A
4/12/2019	AUDDKK	11:30:00 AM	4.7161	4.7205			N/A
4/12/2019	AUDDKK	1:30:00 PM	4.7273	4.732			N/A
4/12/2019	AUDDKK	3:30:00 PM	4.7316	4.7358			N/A
4/12/2019	AUDHKD	9:30:00 AM	5.5917	5.5895			N/A
4/12/2019	AUDHKD	11:30:00 AM	5.5989	5.6013			N/A
4/12/2019	AUDHKD	1:30:00 PM	5.6191	5.6225			N/A
4/12/2019	AUDHKD	3:30:00 PM	5.6261	5.6284			N/A
4/12/2019	AUDHUF	9:30:00 AM	203.49	203.5			N/A
4/12/2019	AUDHUF	11:30:00 AM	203.51	203.74			N/A
4/12/2019	AUDHUF	1:30:00 PM	203.98	204.21			N/A
4/12/2019	AUDHUF	3:30:00 PM	203.83	204.05			N/A
4/12/2019	AUDJPY	9:30:00 AM	79.762	79.735			N/A
4/12/2019	AUDJPY	11:30:00 AM	79.915	79.975			N/A
4/12/2019	AUDJPY	1:30:00 PM	80.191	80.247			N/A
4/12/2019	AUDJPY	3:30:00 PM	80.32	80.376			N/A
4/12/2019	AUDJPY.fx	9:30:00 AM	79.796	79.699			N/A
4/12/2019	AUDJPY.fx	11:30:00 AM	79.949	79.94			N/A
4/12/2019	AUDJPY.fx	1:30:00 PM	80.225	80.212			N/A
4/12/2019	AUDJPY.fx	3:30:00 PM	80.354	80.341			N/A
4/12/2019	AUDMXN	9:30:00 AM	13.4292	13.4265			N/A
4/12/2019	AUDMXN	11:30:00 AM	13.4168	13.4244			N/A

4/12/2019	AUDMXN	1:30:00 PM	13.4538	13.4631			N/A
4/12/2019	AUDMXN	3:30:00 PM	13.4595	13.468			N/A
4/12/2019	AUDNOK	9:30:00 AM	6.0766	6.0765			N/A
4/12/2019	AUDNOK	11:30:00 AM	6.0776	6.082			N/A
4/12/2019	AUDNOK	1:30:00 PM	6.0882	6.093			N/A
4/12/2019	AUDNOK	3:30:00 PM	6.0874	6.0916			N/A
4/12/2019	AUDNOK.fx	9:30:00 AM	6.0779	6.075			N/A
4/12/2019	AUDNOK.fx	11:30:00 AM	6.0792	6.0803			N/A
4/12/2019	AUDNOK.fx	1:30:00 PM	6.0897	6.0913			N/A
4/12/2019	AUDNOK.fx	3:30:00 PM	6.0889	6.0899			N/A
4/12/2019	AUDNZD	9:30:00 AM	1.05902	1.05945			N/A
4/12/2019	AUDNZD	11:30:00 AM	1.06009	1.06096			N/A
4/12/2019	AUDNZD	1:30:00 PM	1.06153	1.06236			N/A
4/12/2019	AUDNZD	3:30:00 PM	1.06171	1.06242			N/A
4/12/2019	AUDNZD.fx	9:30:00 AM	1.05944	1.05901			N/A
4/12/2019	AUDNZD.fx	11:30:00 AM	1.06053	1.06052			N/A
4/12/2019	AUDNZD.fx	1:30:00 PM	1.06196	1.06192			N/A
4/12/2019	AUDNZD.fx	3:30:00 PM	1.06214	1.06199			N/A
4/12/2019	AUDPLN	9:30:00 AM	2.7061	2.7069			N/A
4/12/2019	AUDPLN	11:30:00 AM	2.706	2.709			N/A
4/12/2019	AUDPLN	1:30:00 PM	2.7131	2.7163			N/A
4/12/2019	AUDPLN	3:30:00 PM	2.7129	2.7156			N/A
4/12/2019	AUDSEK	9:30:00 AM	6.6142	6.6121			N/A
4/12/2019	AUDSEK	11:30:00 AM	6.6199	6.6212			N/A
4/12/2019	AUDSEK	1:30:00 PM	6.6429	6.6457			N/A
4/12/2019	AUDSEK	3:30:00 PM	6.6434	6.6456			N/A
4/12/2019	AUDSEK.fx	9:30:00 AM	6.6098	6.6166			N/A
4/12/2019	AUDSEK.fx	11:30:00 AM	6.6152	6.6258			N/A
4/12/2019	AUDSEK.fx	1:30:00 PM	6.6382	6.6502			N/A
4/12/2019	AUDSEK.fx	3:30:00 PM	6.6385	6.6502			N/A
4/12/2019	AUDSGD	9:30:00 AM	0.9675	0.9671			N/A
4/12/2019	AUDSGD	11:30:00 AM	0.9682	0.9684			N/A
4/12/2019	AUDSGD	1:30:00 PM	0.9704	0.9707			N/A
4/12/2019	AUDSGD	3:30:00 PM	0.9712	0.9714			N/A

4/12/2019	AUDSGD.fx	9:30:00 AM	0.96754	0.96697			N/A
4/12/2019	AUDSGD.fx	11:30:00 AM	0.96829	0.96832			N/A
4/12/2019	AUDSGD.fx	1:30:00 PM	0.97047	0.97054			N/A
4/12/2019	AUDSGD.fx	3:30:00 PM	0.97129	0.9713			N/A
4/12/2019	AUDUSD	9:30:00 AM	0.71342	0.71276			N/A
4/12/2019	AUDUSD	11:30:00 AM	0.71428	0.71426			N/A
4/12/2019	AUDUSD	1:30:00 PM	0.71673	0.71681			N/A
4/12/2019	AUDUSD	3:30:00 PM	0.71775	0.71773			N/A
4/12/2019	AUDUSD.fx	9:30:00 AM	0.71349	0.7127			N/A
4/12/2019	AUDUSD.fx	11:30:00 AM	0.71433	0.71421			N/A
4/12/2019	AUDUSD.fx	1:30:00 PM	0.71678	0.71676			N/A
4/12/2019	AUDUSD.fx	3:30:00 PM	0.7178	0.71767			N/A
4/12/2019	AUDZAR	9:30:00 AM	9.9954	10.0006			N/A
4/12/2019	AUDZAR	11:30:00 AM	9.9688	9.9686			N/A
4/12/2019	AUDZAR	1:30:00 PM	10.0037	10.0163			N/A
4/12/2019	AUDZAR	3:30:00 PM	9.9863	9.9981			N/A
4/12/2019	AUS200.i	9:30:00 AM					N/A
4/12/2019	AUS200.i	11:30:00 AM	6256.67	6259.97			N/A
4/12/2019	AUS200.i	1:30:00 PM	6260.57	6263.97			N/A
4/12/2019	AUS200.i	3:30:00 PM	6262.17	6265.27			N/A
4/12/2019	BCHUSD	9:30:00 AM	267.83	279.17			N/A
4/12/2019	BCHUSD	11:30:00 AM	266.02	277.85			N/A
4/12/2019	BCHUSD	1:30:00 PM	271.33	282.79			N/A
4/12/2019	BCHUSD	3:30:00 PM	284.77	296.27			N/A
4/12/2019	CADCHF	9:30:00 AM	0.74963	0.75024			N/A
4/12/2019	CADCHF	11:30:00 AM	0.75014	0.75068			N/A
4/12/2019	CADCHF	1:30:00 PM	0.75067	0.75135			N/A
4/12/2019	CADCHF	3:30:00 PM	0.75044	0.75099			N/A
4/12/2019	CADCHF.fx	9:30:00 AM	0.74997	0.74988			N/A
4/12/2019	CADCHF.fx	11:30:00 AM	0.75047	0.75033			N/A
4/12/2019	CADCHF.fx	1:30:00 PM	0.75101	0.751			N/A
4/12/2019	CADCHF.fx	3:30:00 PM	0.75078	0.75063			N/A
4/12/2019	CADCZK	9:30:00 AM	16.96	16.975			N/A
4/12/2019	CADCZK	11:30:00 AM	16.964	16.979			N/A

4/12/2019	CADCZK	1:30:00 PM	16.979	16.995			N/A
4/12/2019	CADCZK	3:30:00 PM	16.967	16.98			N/A
4/12/2019	CADDKK	9:30:00 AM					N/A
4/12/2019	CADDKK	11:30:00 AM	4.948	4.952			N/A
4/12/2019	CADDKK	1:30:00 PM					N/A
4/12/2019	CADDKK	3:30:00 PM	4.946	4.949			N/A
4/12/2019	CADHKD	9:30:00 AM	5.8645	5.867			N/A
4/12/2019	CADHKD	11:30:00 AM	5.8733	5.8771			N/A
4/12/2019	CADHKD	1:30:00 PM	5.8838	5.8872			N/A
4/12/2019	CADHKD	3:30:00 PM	5.8832	5.885			N/A
4/12/2019	CADHUF	9:30:00 AM	213.45	213.57			N/A
4/12/2019	CADHUF	11:30:00 AM	213.51	213.66			N/A
4/12/2019	CADHUF	1:30:00 PM	213.62	213.77			N/A
4/12/2019	CADHUF	3:30:00 PM	213.2	213.32			N/A
4/12/2019	CADJPY	9:30:00 AM	83.652	83.679			N/A
4/12/2019	CADJPY	11:30:00 AM	83.815	83.873			N/A
4/12/2019	CADJPY	1:30:00 PM	83.953	84.01			N/A
4/12/2019	CADJPY	3:30:00 PM	83.97	84.024			N/A
4/12/2019	CADJPY.fx	9:30:00 AM	83.685	83.645			N/A
4/12/2019	CADJPY.fx	11:30:00 AM	83.848	83.839			N/A
4/12/2019	CADJPY.fx	1:30:00 PM	83.987	83.974			N/A
4/12/2019	CADJPY.fx	3:30:00 PM	84.004	83.988			N/A
4/12/2019	CADMXN	9:30:00 AM	14.0861	14.0917			N/A
4/12/2019	CADMXN	11:30:00 AM	14.0741	14.0823			N/A
4/12/2019	CADMXN	1:30:00 PM	14.0863	14.0977			N/A
4/12/2019	CADMXN	3:30:00 PM	14.0746	14.0849			N/A
4/12/2019	CADNOK	9:30:00 AM	6.3712	6.376			N/A
4/12/2019	CADNOK	11:30:00 AM	6.3737	6.378			N/A
4/12/2019	CADNOK	1:30:00 PM	6.3728	6.3772			N/A
4/12/2019	CADNOK	3:30:00 PM	6.3613	6.3643			N/A
4/12/2019	CADPLN	9:30:00 AM	2.8381	2.84			N/A
4/12/2019	CADPLN	11:30:00 AM	2.8395	2.8413			N/A
4/12/2019	CADPLN	1:30:00 PM	2.8408	2.8426			N/A
4/12/2019	CADPLN	3:30:00 PM	2.8357	2.8368			N/A

4/12/2019	CADSEK	9:30:00 AM	6.9346	6.9385			N/A
4/12/2019	CADSEK	11:30:00 AM	6.9424	6.9441			N/A
4/12/2019	CADSEK	1:30:00 PM	6.9531	6.9561			N/A
4/12/2019	CADSEK	3:30:00 PM	6.9445	6.946			N/A
4/12/2019	CADSGD	9:30:00 AM	1.0142	1.0145			N/A
4/12/2019	CADSGD	11:30:00 AM	1.0151	1.0154			N/A
4/12/2019	CADSGD	1:30:00 PM	1.0154	1.0156			N/A
4/12/2019	CADSGD	3:30:00 PM	1.0149	1.0152			N/A
4/12/2019	CADZAR	9:30:00 AM	10.483	10.4924			N/A
4/12/2019	CADZAR	11:30:00 AM	10.4584	10.4574			N/A
4/12/2019	CADZAR	1:30:00 PM	10.4751	10.4886			N/A
4/12/2019	CADZAR	3:30:00 PM	10.4416	10.4569			N/A
4/12/2019	CHFCZK	9:30:00 AM	22.62	22.631			N/A
4/12/2019	CHFCZK	11:30:00 AM	22.61	22.624			N/A
4/12/2019	CHFCZK	1:30:00 PM	22.612	22.627			N/A
4/12/2019	CHFCZK	3:30:00 PM	22.604	22.62			N/A
4/12/2019	CHFDKK	9:30:00 AM	6.596	6.599			N/A
4/12/2019	CHFDKK	11:30:00 AM	6.593	6.596			N/A
4/12/2019	CHFDKK	1:30:00 PM	6.592	6.594			N/A
4/12/2019	CHFDKK	3:30:00 PM	6.591	6.594			N/A
4/12/2019	CHFDKK.fx	9:30:00 AM	6.5954	6.6001			N/A
4/12/2019	CHFDKK.fx	11:30:00 AM	6.5919	6.5973			N/A
4/12/2019	CHFDKK.fx	1:30:00 PM	6.5903	6.5958			N/A
4/12/2019	CHFDKK.fx	3:30:00 PM	6.5892	6.5952			N/A
4/12/2019	CHFHKD	9:30:00 AM	7.8208	7.8238			N/A
4/12/2019	CHFHKD	11:30:00 AM	7.8282	7.8301			N/A
4/12/2019	CHFHKD	1:30:00 PM	7.835	7.8387			N/A
4/12/2019	CHFHKD	3:30:00 PM	7.8374	7.8397			N/A
4/12/2019	CHFHUF	9:30:00 AM	284.54	284.87			N/A
4/12/2019	CHFHUF	11:30:00 AM	284.46	284.82			N/A
4/12/2019	CHFHUF	1:30:00 PM	284.36	284.73			N/A
4/12/2019	CHFHUF	3:30:00 PM	283.9	284.27			N/A
4/12/2019	CHFJPY	9:30:00 AM	111.549	111.581			N/A
4/12/2019	CHFJPY	11:30:00 AM	111.706	111.758			N/A

4/12/2019	CHFJPY	1:30:00 PM	111.792	111.85			N/A
4/12/2019	CHFJPY	3:30:00 PM	111.873	111.92			N/A
4/12/2019	CHFJPY.fx	9:30:00 AM	111.582	111.547			N/A
4/12/2019	CHFJPY.fx	11:30:00 AM	111.738	111.723			N/A
4/12/2019	CHFJPY.fx	1:30:00 PM	111.826	111.815			N/A
4/12/2019	CHFJPY.fx	3:30:00 PM	111.906	111.886			N/A
4/12/2019	CHFMXN	9:30:00 AM	18.7862	18.7893			N/A
4/12/2019	CHFMXN	11:30:00 AM	18.7542	18.7663			N/A
4/12/2019	CHFMXN	1:30:00 PM	18.7561	18.7714			N/A
4/12/2019	CHFMXN	3:30:00 PM	18.7483	18.7614			N/A
4/12/2019	CHFNOK	9:30:00 AM	8.4963	8.5034			N/A
4/12/2019	CHFNOK	11:30:00 AM	8.4938	8.5002			N/A
4/12/2019	CHFNOK	1:30:00 PM	8.4866	8.4933			N/A
4/12/2019	CHFNOK	3:30:00 PM	8.4767	8.4837			N/A
4/12/2019	CHFNOK.fx	9:30:00 AM	8.49962	8.50023			N/A
4/12/2019	CHFNOK.fx	11:30:00 AM	8.49717	8.49677			N/A
4/12/2019	CHFNOK.fx	1:30:00 PM	8.48993	8.48987			N/A
4/12/2019	CHFNOK.fx	3:30:00 PM	8.48004	8.48029			N/A
4/12/2019	CHFPLN	9:30:00 AM	3.7843	3.7867			N/A
4/12/2019	CHFPLN	11:30:00 AM	3.7831	3.7858			N/A
4/12/2019	CHFPLN	1:30:00 PM	3.7826	3.7855			N/A
4/12/2019	CHFPLN	3:30:00 PM	3.7783	3.7813			N/A
4/12/2019	CHFPLN.fx	9:30:00 AM	3.78186	3.78923			N/A
4/12/2019	CHFPLN.fx	11:30:00 AM	3.78074	3.78805			N/A
4/12/2019	CHFPLN.fx	1:30:00 PM	3.78024	3.78775			N/A
4/12/2019	CHFPLN.fx	3:30:00 PM	3.77596	3.78357			N/A
4/12/2019	CHFSEK	9:30:00 AM	9.2479	9.2507			N/A
4/12/2019	CHFSEK	11:30:00 AM	9.251	9.253			N/A
4/12/2019	CHFSEK	1:30:00 PM	9.2592	9.2622			N/A
4/12/2019	CHFSEK	3:30:00 PM	9.2495	9.2537			N/A
4/12/2019	CHFSGD	9:30:00 AM	1.353	1.3531			N/A
4/12/2019	CHFSGD	11:30:00 AM	1.3532	1.3535			N/A
4/12/2019	CHFSGD	1:30:00 PM	1.3526	1.3531			N/A
4/12/2019	CHFSGD	3:30:00 PM	1.3524	1.3529			N/A

4/12/2019	CHFSGD.fx	9:30:00 AM	1.35313	1.35296			N/A
4/12/2019	CHFSGD.fx	11:30:00 AM	1.35333	1.35336			N/A
4/12/2019	CHFSGD.fx	1:30:00 PM	1.35274	1.35292			N/A
4/12/2019	CHFSGD.fx	3:30:00 PM	1.35257	1.35269			N/A
4/12/2019	CHFZAR	9:30:00 AM	13.984	13.9866			N/A
4/12/2019	CHFZAR	11:30:00 AM	13.9395	13.9313			N/A
4/12/2019	CHFZAR	1:30:00 PM	13.9519	13.9624			N/A
4/12/2019	CHFZAR	3:30:00 PM	13.9147	13.9229			N/A
4/12/2019	CZKJPY	9:30:00 AM	4.932	4.934			N/A
4/12/2019	CZKJPY	11:30:00 AM	4.94	4.943			N/A
4/12/2019	CZKJPY	1:30:00 PM	4.944	4.947			N/A
4/12/2019	CZKJPY	3:30:00 PM	4.948	4.952			N/A
4/12/2019	DAX30.i	9:30:00 AM	11947.39	11944.64			N/A
4/12/2019	DAX30.i	11:30:00 AM	11971.14	11966.64			N/A
4/12/2019	DAX30.i	1:30:00 PM	12020.14	12017.39			N/A
4/12/2019	DAX30.i	3:30:00 PM	12032.89	12031.89			N/A
4/12/2019	DJ30.i	9:30:00 AM					N/A
4/12/2019	DJ30.i	11:30:00 AM					N/A
4/12/2019	DJ30.i	1:30:00 PM					N/A
4/12/2019	DJ30.i	3:30:00 PM					N/A
4/12/2019	DKKJPY	9:30:00 AM	16.92	16.92			N/A
4/12/2019	DKKJPY	11:30:00 AM	16.95	16.96			N/A
4/12/2019	DKKJPY	1:30:00 PM	16.96	16.98			N/A
4/12/2019	DKKJPY	3:30:00 PM					N/A
4/12/2019	EURAUD	9:30:00 AM	1.58238	1.58139			N/A
4/12/2019	EURAUD	11:30:00 AM	1.58121	1.5815			N/A
4/12/2019	EURAUD	1:30:00 PM	1.57738	1.57777			N/A
4/12/2019	EURAUD	3:30:00 PM	1.57618	1.57635			N/A
4/12/2019	EURAUD.fx	9:30:00 AM	1.58263	1.58116			N/A
4/12/2019	EURAUD.fx	11:30:00 AM	1.58139	1.58129			N/A
4/12/2019	EURAUD.fx	1:30:00 PM	1.57757	1.57755			N/A
4/12/2019	EURAUD.fx	3:30:00 PM	1.57638	1.57615			N/A
4/12/2019	EURCAD	9:30:00 AM	1.50827	1.50891			N/A
4/12/2019	EURCAD	11:30:00 AM	1.50795	1.50861			N/A

4/12/2019	EURCAD	1:30:00 PM	1.50709	1.50787			N/A
4/12/2019	EURCAD	3:30:00 PM	1.50809	1.50851			N/A
4/12/2019	EURCAD.fx	9:30:00 AM	1.50865	1.5085			N/A
4/12/2019	EURCAD.fx	11:30:00 AM	1.50836	1.50819			N/A
4/12/2019	EURCAD.fx	1:30:00 PM	1.5075	1.50746			N/A
4/12/2019	EURCAD.fx	3:30:00 PM	1.5085	1.50809			N/A
4/12/2019	EURCHF	9:30:00 AM	1.13147	1.13133			N/A
4/12/2019	EURCHF	11:30:00 AM	1.13186	1.13185			N/A
4/12/2019	EURCHF	1:30:00 PM	1.13217	1.13218			N/A
4/12/2019	EURCHF	3:30:00 PM	1.13226	1.13232			N/A
4/12/2019	EURCHF.fx	9:30:00 AM	1.13153	1.13127			N/A
4/12/2019	EURCHF.fx	11:30:00 AM	1.13191	1.1318			N/A
4/12/2019	EURCHF.fx	1:30:00 PM	1.13223	1.13212			N/A
4/12/2019	EURCHF.fx	3:30:00 PM	1.13232	1.13226			N/A
4/12/2019	EURCZK	9:30:00 AM	25.576	25.615			N/A
4/12/2019	EURCZK	11:30:00 AM	25.576	25.615			N/A
4/12/2019	EURCZK	1:30:00 PM	25.587	25.625			N/A
4/12/2019	EURCZK	3:30:00 PM					N/A
4/12/2019	EURDKK	9:30:00 AM	7.4641	7.4653			N/A
4/12/2019	EURDKK	11:30:00 AM	7.4637	7.4644			N/A
4/12/2019	EURDKK	1:30:00 PM	7.4626	7.4638			N/A
4/12/2019	EURDKK	3:30:00 PM	7.4603	7.4616			N/A
4/12/2019	EURGBP	9:30:00 AM	0.86377	0.8637			N/A
4/12/2019	EURGBP	11:30:00 AM	0.8649	0.86474			N/A
4/12/2019	EURGBP	1:30:00 PM	0.86479	0.86483			N/A
4/12/2019	EURGBP	3:30:00 PM	0.86323	0.86323			N/A
4/12/2019	EURGBP.fx	9:30:00 AM	0.8638	0.86367			N/A
4/12/2019	EURGBP.fx	11:30:00 AM	0.86493	0.86471			N/A
4/12/2019	EURGBP.fx	1:30:00 PM	0.86483	0.86478			N/A
4/12/2019	EURGBP.fx	3:30:00 PM	0.86326	0.86318			N/A
4/12/2019	EURHKD	9:30:00 AM	8.8497	8.8512			N/A
4/12/2019	EURHKD	11:30:00 AM	8.8605	8.8642			N/A
4/12/2019	EURHKD	1:30:00 PM	8.8707	8.8752			N/A
4/12/2019	EURHKD	3:30:00 PM	8.8736	8.8777			N/A

4/12/2019	EURHKD.fx	9:30:00 AM	8.85235	8.84865			N/A
4/12/2019	EURHKD.fx	11:30:00 AM	8.86305	8.86165			N/A
4/12/2019	EURHKD.fx	1:30:00 PM	8.87327	8.87262			N/A
4/12/2019	EURHKD.fx	3:30:00 PM	8.87616	8.8751			N/A
4/12/2019	EURHUF	9:30:00 AM	321.85	322.51			N/A
4/12/2019	EURHUF	11:30:00 AM	321.88	322.52			N/A
4/12/2019	EURHUF	1:30:00 PM	321.82	322.49			N/A
4/12/2019	EURHUF	3:30:00 PM	321.55	322.29			N/A
4/12/2019	EURHUF.fx	9:30:00 AM	322.109	322.328			N/A
4/12/2019	EURHUF.fx	11:30:00 AM	322.153	322.33			N/A
4/12/2019	EURHUF.fx	1:30:00 PM	322.133	322.348			N/A
4/12/2019	EURHUF.fx	3:30:00 PM	321.825	322.023			N/A
4/12/2019	EURJPY	9:30:00 AM	126.255	126.189			N/A
4/12/2019	EURJPY	11:30:00 AM	126.471	126.463			N/A
4/12/2019	EURJPY	1:30:00 PM	126.613	126.594			N/A
4/12/2019	EURJPY	3:30:00 PM	126.713	126.684			N/A
4/12/2019	EURJPY.fx	9:30:00 AM	126.257	126.185			N/A
4/12/2019	EURJPY.fx	11:30:00 AM	126.474	126.459			N/A
4/12/2019	EURJPY.fx	1:30:00 PM	126.615	126.59			N/A
4/12/2019	EURJPY.fx	3:30:00 PM	126.715	126.679			N/A
4/12/2019	EURMXN	9:30:00 AM	21.2545	21.2633			N/A
4/12/2019	EURMXN	11:30:00 AM	21.2291	21.2444			N/A
4/12/2019	EURMXN	1:30:00 PM	21.2379	21.2563			N/A
4/12/2019	EURMXN	3:30:00 PM	21.234	21.2482			N/A
4/12/2019	EURMXN.fx	9:30:00 AM	21.2629	21.255			N/A
4/12/2019	EURMXN.fx	11:30:00 AM	21.2376	21.236			N/A
4/12/2019	EURMXN.fx	1:30:00 PM	21.2462	21.2478			N/A
4/12/2019	EURMXN.fx	3:30:00 PM	21.2424	21.2398			N/A
4/12/2019	EURNOK	9:30:00 AM	9.6107	9.6224			N/A
4/12/2019	EURNOK	11:30:00 AM	9.6118	9.6228			N/A
4/12/2019	EURNOK	1:30:00 PM	9.6064	9.6177			N/A
4/12/2019	EURNOK	3:30:00 PM	9.5962	9.6079			N/A
4/12/2019	EURNOK.fx	9:30:00 AM	9.61616	9.61692			N/A
4/12/2019	EURNOK.fx	11:30:00 AM	9.61724	9.61732			N/A

4/12/2019	EURNOK.fx	1:30:00 PM	9.61181	9.61212			N/A
4/12/2019	EURNOK.fx	3:30:00 PM	9.60191	9.60227			N/A
4/12/2019	EURNZD	9:30:00 AM	1.67621	1.67629			N/A
4/12/2019	EURNZD	11:30:00 AM	1.6773	1.67802			N/A
4/12/2019	EURNZD	1:30:00 PM	1.67562	1.67633			N/A
4/12/2019	EURNZD	3:30:00 PM	1.67455	1.67486			N/A
4/12/2019	EURNZD.fx	9:30:00 AM	1.67662	1.67587			N/A
4/12/2019	EURNZD.fx	11:30:00 AM	1.6777	1.67759			N/A
4/12/2019	EURNZD.fx	1:30:00 PM	1.67605	1.6759			N/A
4/12/2019	EURNZD.fx	3:30:00 PM	1.67497	1.67444			N/A
4/12/2019	EURPLN	9:30:00 AM	4.2816	4.2846			N/A
4/12/2019	EURPLN	11:30:00 AM	4.2818	4.285			N/A
4/12/2019	EURPLN	1:30:00 PM	4.2825	4.2849			N/A
4/12/2019	EURPLN	3:30:00 PM	4.2782	4.2816			N/A
4/12/2019	EURPLN.fx	9:30:00 AM	4.28087	4.28532			N/A
4/12/2019	EURPLN.fx	11:30:00 AM	4.2812	4.28551			N/A
4/12/2019	EURPLN.fx	1:30:00 PM					N/A
4/12/2019	EURPLN.fx	3:30:00 PM	4.27757	4.28212			N/A
4/12/2019	EURRUB	9:30:00 AM					N/A
4/12/2019	EURRUB	11:30:00 AM	72.443	72.873			N/A
4/12/2019	EURRUB	1:30:00 PM	72.361	72.789			N/A
4/12/2019	EURRUB	3:30:00 PM	72.334	72.759			N/A
4/12/2019	EURSEK	9:30:00 AM	10.4641	10.4675			N/A
4/12/2019	EURSEK	11:30:00 AM	10.473	10.4738			N/A
4/12/2019	EURSEK	1:30:00 PM	10.4837	10.4879			N/A
4/12/2019	EURSEK	3:30:00 PM	10.475	10.4794			N/A
4/12/2019	EURSEK.fx	9:30:00 AM	10.46567	10.46576			N/A
4/12/2019	EURSEK.fx	11:30:00 AM	10.47461	10.47214			N/A
4/12/2019	EURSEK.fx	1:30:00 PM	10.48532	10.48632			N/A
4/12/2019	EURSEK.fx	3:30:00 PM	10.47671	10.47778			N/A
4/12/2019	EURSGD	9:30:00 AM	1.5305	1.531			N/A
4/12/2019	EURSGD	11:30:00 AM	1.5315	1.5322			N/A
4/12/2019	EURSGD	1:30:00 PM	1.5313	1.532			N/A
4/12/2019	EURSGD	3:30:00 PM	1.5312	1.532			N/A

4/12/2019	EURSGD.fx	9:30:00 AM	1.53091	1.53062			N/A
4/12/2019	EURSGD.fx	11:30:00 AM	1.53179	1.53176			N/A
4/12/2019	EURSGD.fx	1:30:00 PM	1.53168	1.5316			N/A
4/12/2019	EURSGD.fx	3:30:00 PM	1.53153	1.53157			N/A
4/12/2019	EURUSD	9:30:00 AM	1.12862	1.12828			N/A
4/12/2019	EURUSD	11:30:00 AM	1.12982	1.12973	100	100	N/A
4/12/2019	EURUSD	1:30:00 PM	1.13105	1.13104			N/A
4/12/2019	EURUSD	3:30:00 PM	1.13158	1.13152			N/A
4/12/2019	EURUSD.fx	9:30:00 AM	1.12882	1.12837			N/A
4/12/2019	EURUSD.fx	11:30:00 AM	1.13002	1.12982			N/A
4/12/2019	EURUSD.fx	1:30:00 PM	1.13126	1.13113			N/A
4/12/2019	EURUSD.fx	3:30:00 PM	1.13178	1.13161			N/A
4/12/2019	EURZAR	9:30:00 AM	15.8232	15.8275			N/A
4/12/2019	EURZAR	11:30:00 AM	15.777	15.7749			N/A
4/12/2019	EURZAR	1:30:00 PM	15.7983	15.8131			N/A
4/12/2019	EURZAR	3:30:00 PM	15.7645	15.7755			N/A
4/12/2019	EURZAR.fx	9:30:00 AM	15.82237	15.82848			N/A
4/12/2019	EURZAR.fx	11:30:00 AM	15.77692	15.77463			N/A
4/12/2019	EURZAR.fx	1:30:00 PM	15.79744	15.81423			N/A
4/12/2019	EURZAR.fx	3:30:00 PM	15.76366	15.77627			N/A
4/12/2019	GBPAUD	9:30:00 AM	1.83274	1.83182			N/A
4/12/2019	GBPAUD	11:30:00 AM	1.82911	1.82945			N/A
4/12/2019	GBPAUD	1:30:00 PM	1.8246	1.82526			N/A
4/12/2019	GBPAUD	3:30:00 PM	1.82646	1.82682			N/A
4/12/2019	GBPAUD.fx	9:30:00 AM	1.83313	1.83145			N/A
4/12/2019	GBPAUD.fx	11:30:00 AM	1.82949	1.82908			N/A
4/12/2019	GBPAUD.fx	1:30:00 PM	1.82498	1.82487			N/A
4/12/2019	GBPAUD.fx	3:30:00 PM	1.82684	1.82644			N/A
4/12/2019	GBPCAD	9:30:00 AM	1.74634	1.74699			N/A
4/12/2019	GBPCAD	11:30:00 AM	1.74404	1.74409			N/A
4/12/2019	GBPCAD	1:30:00 PM	1.74286	1.7434			N/A
4/12/2019	GBPCAD	3:30:00 PM	1.74715	1.74734			N/A
4/12/2019	GBPCAD.fx	9:30:00 AM	1.74671	1.74661			N/A
4/12/2019	GBPCAD.fx	11:30:00 AM	1.74441	1.74368			N/A

4/12/2019	GBPCAD.fx	1:30:00 PM	1.74324	1.743			N/A
4/12/2019	GBPCAD.fx	3:30:00 PM	1.74751	1.74697			N/A
4/12/2019	GBPCHF	9:30:00 AM	1.30967	1.30993			N/A
4/12/2019	GBPCHF	11:30:00 AM	1.3088	1.30887			N/A
4/12/2019	GBPCHF	1:30:00 PM	1.30908	1.30928			N/A
4/12/2019	GBPCHF	3:30:00 PM	1.31154	1.31186			N/A
4/12/2019	GBPCHF.fx	9:30:00 AM	1.30985	1.30972			N/A
4/12/2019	GBPCHF.fx	11:30:00 AM	1.30898	1.30868			N/A
4/12/2019	GBPCHF.fx	1:30:00 PM	1.30926	1.30908			N/A
4/12/2019	GBPCHF.fx	3:30:00 PM	1.31172	1.31166			N/A
4/12/2019	GBPCZK	9:30:00 AM	29.624	29.641			N/A
4/12/2019	GBPCZK	11:30:00 AM	29.589	29.602			N/A
4/12/2019	GBPCZK	1:30:00 PM	29.599	29.619			N/A
4/12/2019	GBPCZK	3:30:00 PM	29.645	29.665			N/A
4/12/2019	GBPDKK	9:30:00 AM	8.639	8.648			N/A
4/12/2019	GBPDKK	11:30:00 AM	8.627	8.636			N/A
4/12/2019	GBPDKK	1:30:00 PM	8.627	8.637			N/A
4/12/2019	GBPDKK	3:30:00 PM	8.643	8.653			N/A
4/12/2019	GBPDKK.fx	9:30:00 AM	8.6369	8.6482			N/A
4/12/2019	GBPDKK.fx	11:30:00 AM	8.6256	8.6359			N/A
4/12/2019	GBPDKK.fx	1:30:00 PM	8.6253	8.6376			N/A
4/12/2019	GBPDKK.fx	3:30:00 PM	8.641	8.653			N/A
4/12/2019	GBPHKD	9:30:00 AM	10.2421	10.2458			N/A
4/12/2019	GBPHKD	11:30:00 AM	10.2439	10.2455			N/A
4/12/2019	GBPHKD	1:30:00 PM	10.2567	10.2602			N/A
4/12/2019	GBPHKD	3:30:00 PM	10.2761	10.2818			N/A
4/12/2019	GBPHUF	9:30:00 AM	372.67	373.08			N/A
4/12/2019	GBPHUF	11:30:00 AM	372.28	372.64			N/A
4/12/2019	GBPHUF	1:30:00 PM	372.24	372.69			N/A
4/12/2019	GBPHUF	3:30:00 PM	372.34	372.77			N/A
4/12/2019	GBPJPY	9:30:00 AM	146.138	146.111			N/A
4/12/2019	GBPJPY	11:30:00 AM	146.238	146.228			N/A
4/12/2019	GBPJPY	1:30:00 PM	146.397	146.39			N/A
4/12/2019	GBPJPY	3:30:00 PM	146.773	146.773			N/A

4/12/2019	GBPJPY.fx	9:30:00 AM	146.156	146.092			N/A
4/12/2019	GBPJPY.fx	11:30:00 AM	146.256	146.21			N/A
4/12/2019	GBPJPY.fx	1:30:00 PM	146.417	146.37			N/A
4/12/2019	GBPJPY.fx	3:30:00 PM	146.791	146.753			N/A
4/12/2019	GBPMXN	9:30:00 AM	24.6061	24.6059			N/A
4/12/2019	GBPMXN	11:30:00 AM	24.5472	24.5562			N/A
4/12/2019	GBPMXN	1:30:00 PM	24.5568	24.5684			N/A
4/12/2019	GBPMXN	3:30:00 PM	24.5907	24.5982			N/A
4/12/2019	GBPNOK	9:30:00 AM	11.1288	11.1389			N/A
4/12/2019	GBPNOK	11:30:00 AM	11.1168	11.1249			N/A
4/12/2019	GBPNOK	1:30:00 PM	11.1091	11.1194			N/A
4/12/2019	GBPNOK	3:30:00 PM	11.1186	11.1286			N/A
4/12/2019	GBPNOK.fx	9:30:00 AM	11.13359	11.13408			N/A
4/12/2019	GBPNOK.fx	11:30:00 AM	11.12162	11.12012			N/A
4/12/2019	GBPNOK.fx	1:30:00 PM	11.11402	11.11427			N/A
4/12/2019	GBPNOK.fx	3:30:00 PM	11.12368	11.12355			N/A
4/12/2019	GBPNZD	9:30:00 AM	1.94091	1.94081			N/A
4/12/2019	GBPNZD	11:30:00 AM	1.93983	1.94006			N/A
4/12/2019	GBPNZD	1:30:00 PM	1.93779	1.9382			N/A
4/12/2019	GBPNZD	3:30:00 PM	1.93998	1.94001			N/A
4/12/2019	GBPNZD.fx	9:30:00 AM	1.94124	1.94045			N/A
4/12/2019	GBPNZD.fx	11:30:00 AM	1.94017	1.93969			N/A
4/12/2019	GBPNZD.fx	1:30:00 PM	1.93815	1.93783			N/A
4/12/2019	GBPNZD.fx	3:30:00 PM	1.94033	1.93966			N/A
4/12/2019	GBPPLN	9:30:00 AM	4.9583	4.9593			N/A
4/12/2019	GBPPLN	11:30:00 AM	4.9528	4.9531			N/A
4/12/2019	GBPPLN	1:30:00 PM	4.9531	4.9548			N/A
4/12/2019	GBPPLN	3:30:00 PM	4.9573	4.9586			N/A
4/12/2019	GBPPLN.fx	9:30:00 AM	4.95597	4.96149			N/A
4/12/2019	GBPPLN.fx	11:30:00 AM	4.95058	4.95533			N/A
4/12/2019	GBPPLN.fx	1:30:00 PM	4.9511	4.95686			N/A
4/12/2019	GBPPLN.fx	3:30:00 PM	4.95516	4.96076			N/A
4/12/2019	GBPSEK	9:30:00 AM	12.1141	12.1202			N/A
4/12/2019	GBPSEK	11:30:00 AM	12.1084	12.1126			N/A

4/12/2019	GBPSEK	1:30:00 PM	12.1218	12.1295			N/A
4/12/2019	GBPSEK	3:30:00 PM	12.1332	12.141			N/A
4/12/2019	GBPSEK.fx	9:30:00 AM	12.1102	12.12386			N/A
4/12/2019	GBPSEK.fx	11:30:00 AM	12.10465	12.11662			N/A
4/12/2019	GBPSEK.fx	1:30:00 PM	12.11764	12.13308			N/A
4/12/2019	GBPSEK.fx	3:30:00 PM	12.1295	12.14461			N/A
4/12/2019	GBPSGD	9:30:00 AM	1.7722	1.7726			N/A
4/12/2019	GBPSGD	11:30:00 AM	1.7712	1.7714			N/A
4/12/2019	GBPSGD	1:30:00 PM	1.7709	1.7714			N/A
4/12/2019	GBPSGD	3:30:00 PM	1.7739	1.7746			N/A
4/12/2019	GBPSGD.fx	9:30:00 AM	1.77028	1.77443			N/A
4/12/2019	GBPSGD.fx	11:30:00 AM	1.76933	1.77318			N/A
4/12/2019	GBPSGD.fx	1:30:00 PM	1.76909	1.77316			N/A
4/12/2019	GBPSGD.fx	3:30:00 PM	1.77208	1.77636			N/A
4/12/2019	GBPUSD	9:30:00 AM	1.30669	1.30639			N/A
4/12/2019	GBPUSD	11:30:00 AM	1.30677	1.30627			N/A
4/12/2019	GBPUSD	1:30:00 PM	1.30816	1.30796			N/A
4/12/2019	GBPUSD	3:30:00 PM	1.31105	1.31102			N/A
4/12/2019	GBPUSD.fx	9:30:00 AM	1.30674	1.30633			N/A
4/12/2019	GBPUSD.fx	11:30:00 AM	1.30681	1.30622			N/A
4/12/2019	GBPUSD.fx	1:30:00 PM	1.30821	1.3079			N/A
4/12/2019	GBPUSD.fx	3:30:00 PM	1.3111	1.31096			N/A
4/12/2019	GBPZAR	9:30:00 AM	18.3186	18.3294			N/A
4/12/2019	GBPZAR	11:30:00 AM	18.239	18.2451			N/A
4/12/2019	GBPZAR	1:30:00 PM	18.2648	18.289			N/A
4/12/2019	GBPZAR	3:30:00 PM	18.2596	18.2776			N/A
4/12/2019	GBPZAR.fx	9:30:00 AM	18.325	18.3226			N/A
4/12/2019	GBPZAR.fx	11:30:00 AM	18.2458	18.2376			N/A
4/12/2019	GBPZAR.fx	1:30:00 PM	18.2708	18.2822			N/A
4/12/2019	GBPZAR.fx	3:30:00 PM	18.2661	18.2703			N/A
4/12/2019	GOLD	9:30:00 AM	1294.17	1294.28			N/A
4/12/2019	GOLD	11:30:00 AM	1293.02	1293.29			N/A
4/12/2019	GOLD	1:30:00 PM	1294.19	1294.31			N/A
4/12/2019	GOLD	3:30:00 PM	1293.62	1292.33			N/A

4/12/2019	HKDJPY	9:30:00 AM	14.26	14.27			N/A
4/12/2019	HKDJPY	11:30:00 AM	14.27	14.28			N/A
4/12/2019	HKDJPY	1:30:00 PM	14.27	14.28			N/A
4/12/2019	HKDJPY	3:30:00 PM	14.27	14.28			N/A
4/12/2019	HKDJPY.fx	9:30:00 AM	14.259	14.264			N/A
4/12/2019	HKDJPY.fx	11:30:00 AM	14.265	14.273			N/A
4/12/2019	HKDJPY.fx	1:30:00 PM	14.264	14.27			N/A
4/12/2019	HKDJPY.fx	3:30:00 PM	14.272	14.275			N/A
4/12/2019	HUFJPY	9:30:00 AM	0.3919	0.3922			N/A
4/12/2019	HUFJPY	11:30:00 AM	0.3925	0.3928			N/A
4/12/2019	HUFJPY	1:30:00 PM	0.3931	0.3935			N/A
4/12/2019	HUFJPY	3:30:00 PM	0.3939	0.3942			N/A
4/12/2019	JP225.i	9:30:00 AM	21844.81	21854.81			N/A
4/12/2019	JP225.i	11:30:00 AM	21913.14	21924.81			N/A
4/12/2019	JP225.i	1:30:00 PM	22013.14	22029.81			N/A
4/12/2019	JP225.i	3:30:00 PM	22039.81	22054.81			N/A
4/12/2019	MXNJPY	9:30:00 AM	5.94	5.95			N/A
4/12/2019	MXNJPY	11:30:00 AM	5.96	5.96			N/A
4/12/2019	MXNJPY	1:30:00 PM	5.96	5.97			N/A
4/12/2019	MXNJPY	3:30:00 PM	5.97	5.97			N/A
4/12/2019	NASDAQ.i	9:30:00 AM					N/A
4/12/2019	NASDAQ.i	11:30:00 AM					N/A
4/12/2019	NASDAQ.i	1:30:00 PM					N/A
4/12/2019	NASDAQ.i	3:30:00 PM					N/A
4/12/2019	NOKJPY	9:30:00 AM	13.12	13.15			N/A
4/12/2019	NOKJPY	11:30:00 AM	13.14	13.17			N/A
4/12/2019	NOKJPY	1:30:00 PM	13.16	13.19			N/A
4/12/2019	NOKJPY	3:30:00 PM	13.18	13.21			N/A
4/12/2019	NOKJPY.fx	9:30:00 AM	13.124	13.127			N/A
4/12/2019	NOKJPY.fx	11:30:00 AM	13.147	13.152			N/A
4/12/2019	NOKJPY.fx	1:30:00 PM	13.169	13.173			N/A
4/12/2019	NOKJPY.fx	3:30:00 PM	13.194	13.196			N/A
4/12/2019	NZDCAD	9:30:00 AM	0.89973	0.90018			N/A
4/12/2019	NZDCAD	11:30:00 AM	0.89876	0.89931			N/A

4/12/2019	NZDCAD	1:30:00 PM	0.89915	0.89981			N/A
4/12/2019	NZDCAD	3:30:00 PM	0.90032	0.90094			N/A
4/12/2019	NZDCAD.fx	9:30:00 AM	0.90006	0.89984			N/A
4/12/2019	NZDCAD.fx	11:30:00 AM	0.8991	0.89898			N/A
4/12/2019	NZDCAD.fx	1:30:00 PM	0.89948	0.89947			N/A
4/12/2019	NZDCAD.fx	3:30:00 PM	0.90065	0.90061			N/A
4/12/2019	NZDCHF	9:30:00 AM	0.67472	0.67511			N/A
4/12/2019	NZDCHF	11:30:00 AM	0.67436	0.67498			N/A
4/12/2019	NZDCHF	1:30:00 PM	0.67523	0.67588			N/A
4/12/2019	NZDCHF	3:30:00 PM	0.67585	0.6764			N/A
4/12/2019	NZDCHF.fx	9:30:00 AM	0.67505	0.67476			N/A
4/12/2019	NZDCHF.fx	11:30:00 AM	0.6747	0.67463			N/A
4/12/2019	NZDCHF.fx	1:30:00 PM	0.67558	0.67553			N/A
4/12/2019	NZDCHF.fx	3:30:00 PM	0.67619	0.67605			N/A
4/12/2019	NZDCZK	9:30:00 AM	15.266	15.27			N/A
4/12/2019	NZDCZK	11:30:00 AM	15.25	15.261			N/A
4/12/2019	NZDCZK	1:30:00 PM	15.272	15.283			N/A
4/12/2019	NZDCZK	3:30:00 PM	15.281	15.288			N/A
4/12/2019	NZDDKK	9:30:00 AM	4.452	4.454			N/A
4/12/2019	NZDDKK	11:30:00 AM					N/A
4/12/2019	NZDDKK	1:30:00 PM	4.452	4.455			N/A
4/12/2019	NZDDKK	3:30:00 PM	4.453	4.457			N/A
4/12/2019	NZDHKD	9:30:00 AM	5.2776	5.2772			N/A
4/12/2019	NZDHKD	11:30:00 AM	5.2794	5.2811			N/A
4/12/2019	NZDHKD	1:30:00 PM	5.2918	5.2935			N/A
4/12/2019	NZDHKD	3:30:00 PM	5.298	5.2984			N/A
4/12/2019	NZDHUF	9:30:00 AM	192.01	192.19			N/A
4/12/2019	NZDHUF	11:30:00 AM	191.85	192.13			N/A
4/12/2019	NZDHUF	1:30:00 PM	192.04	192.31			N/A
4/12/2019	NZDHUF	3:30:00 PM	191.9	192.14			N/A
4/12/2019	NZDJPY	9:30:00 AM	75.282	75.294			N/A
4/12/2019	NZDJPY	11:30:00 AM	75.35	75.416			N/A
4/12/2019	NZDJPY	1:30:00 PM	75.517	75.571			N/A
4/12/2019	NZDJPY	3:30:00 PM	75.623	75.683			N/A

4/12/2019	NZDJPY.fx	9:30:00 AM	75.313	75.262			N/A
4/12/2019	NZDJPY.fx	11:30:00 AM	75.382	75.384			N/A
4/12/2019	NZDJPY.fx	1:30:00 PM	75.549	75.539			N/A
4/12/2019	NZDJPY.fx	3:30:00 PM	75.653	75.651			N/A
4/12/2019	NZDMXN	9:30:00 AM	12.6756	12.6748			N/A
4/12/2019	NZDMXN	11:30:00 AM	12.6518	12.6556			N/A
4/12/2019	NZDMXN	1:30:00 PM	12.6708	12.675			N/A
4/12/2019	NZDMXN	3:30:00 PM	12.6749	12.6787			N/A
4/12/2019	NZDNOK	9:30:00 AM	5.7333	5.7345			N/A
4/12/2019	NZDNOK	11:30:00 AM	5.7283	5.7316			N/A
4/12/2019	NZDNOK	1:30:00 PM	5.7311	5.7343			N/A
4/12/2019	NZDNOK	3:30:00 PM	5.7282	5.7301			N/A
4/12/2019	NZDPLN	9:30:00 AM	2.5537	2.5544			N/A
4/12/2019	NZDPLN	11:30:00 AM	2.5517	2.5531			N/A
4/12/2019	NZDPLN	1:30:00 PM	2.5548	2.5559			N/A
4/12/2019	NZDPLN	3:30:00 PM	2.5537	2.5539			N/A
4/12/2019	NZDSEK	9:30:00 AM	6.2385	6.2429			N/A
4/12/2019	NZDSEK	11:30:00 AM	6.2377	6.2425			N/A
4/12/2019	NZDSEK	1:30:00 PM	6.251	6.2573			N/A
4/12/2019	NZDSEK	3:30:00 PM	6.2507	6.2553			N/A
4/12/2019	NZDSGD	9:30:00 AM	0.913	0.9134			N/A
4/12/2019	NZDSGD	11:30:00 AM	0.9128	0.9134			N/A
4/12/2019	NZDSGD	1:30:00 PM	0.9136	0.9142			N/A
4/12/2019	NZDSGD	3:30:00 PM	0.9144	0.9148			N/A
4/12/2019	NZDSGD.fx	9:30:00 AM	0.91299	0.91337			N/A
4/12/2019	NZDSGD.fx	11:30:00 AM	0.91278	0.91333			N/A
4/12/2019	NZDSGD.fx	1:30:00 PM	0.91368	0.91411			N/A
4/12/2019	NZDSGD.fx	3:30:00 PM	0.91438	0.9147			N/A
4/12/2019	NZDUSD	9:30:00 AM	0.67332	0.67302			N/A
4/12/2019	NZDUSD	11:30:00 AM	0.67344	0.67346			N/A
4/12/2019	NZDUSD	1:30:00 PM	0.67491	0.67495			N/A
4/12/2019	NZDUSD	3:30:00 PM	0.67583	0.67568			N/A
4/12/2019	NZDUSD.fx	9:30:00 AM	0.67338	0.67304			N/A
4/12/2019	NZDUSD.fx	11:30:00 AM	0.6735	0.67348			N/A

4/12/2019	NZDUSD.fx	1:30:00 PM	0.67498	0.67494			N/A
4/12/2019	NZDUSD.fx	3:30:00 PM	0.67589	0.67571			N/A
4/12/2019	NZDZAR	9:30:00 AM	9.4321	9.4419			N/A
4/12/2019	NZDZAR	11:30:00 AM	9.3971	9.4008			N/A
4/12/2019	NZDZAR	1:30:00 PM	9.4182	9.432			N/A
4/12/2019	NZDZAR	3:30:00 PM	9.4007	9.4158			N/A
4/12/2019	SEKJPY	9:30:00 AM	12.06	12.07			N/A
4/12/2019	SEKJPY	11:30:00 AM	12.08	12.08			N/A
4/12/2019	SEKJPY	1:30:00 PM	12.08	12.08			N/A
4/12/2019	SEKJPY	3:30:00 PM	12.09	12.1			N/A
4/12/2019	SEKJPY.fx	9:30:00 AM	12.054	12.066			N/A
4/12/2019	SEKJPY.fx	11:30:00 AM	12.068	12.082			N/A
4/12/2019	SEKJPY.fx	1:30:00 PM	12.066	12.081			N/A
4/12/2019	SEKJPY.fx	3:30:00 PM	12.085	12.101			N/A
4/12/2019	SGDJPY	9:30:00 AM	82.44	82.44			N/A
4/12/2019	SGDJPY	11:30:00 AM	82.53	82.55			N/A
4/12/2019	SGDJPY	1:30:00 PM	82.65	82.65			N/A
4/12/2019	SGDJPY	3:30:00 PM	82.7	82.71			N/A
4/12/2019	SILVER	9:30:00 AM	14.81	15.19			N/A
4/12/2019	SILVER	11:30:00 AM	14.82	15.21			N/A
4/12/2019	SILVER	1:30:00 PM	14.88	15.26			N/A
4/12/2019	SILVER	3:30:00 PM	14.86	15.22			N/A
4/12/2019	SPX500.i	9:30:00 AM	2891.93	2892.41			N/A
4/12/2019	SPX500.i	11:30:00 AM	2897.11	2897.66			N/A
4/12/2019	SPX500.i	1:30:00 PM	2901.11	2901.89			N/A
4/12/2019	SPX500.i	3:30:00 PM	2906.61	2907.41			N/A
4/12/2019	UK100.i	9:30:00 AM	7437.23	7436.98			N/A
4/12/2019	UK100.i	11:30:00 AM	7447.48	7447.73			N/A
4/12/2019	UK100.i	1:30:00 PM	7458.98	7459.73			N/A
4/12/2019	UK100.i	3:30:00 PM	7446.48	7445.48			N/A
4/12/2019	USDCAD	9:30:00 AM	1.33697	1.33661			N/A
4/12/2019	USDCAD	11:30:00 AM	1.33499	1.33488			N/A
4/12/2019	USDCAD	1:30:00 PM	1.3327	1.33269			N/A
4/12/2019	USDCAD	3:30:00 PM	1.33296	1.33254			N/A

4/12/2019	USDCAD.fx	9:30:00 AM	1.337	1.33658			N/A
4/12/2019	USDCAD.fx	11:30:00 AM	1.33501	1.33485			N/A
4/12/2019	USDCAD.fx	1:30:00 PM	1.33273	1.33266			N/A
4/12/2019	USDCAD.fx	3:30:00 PM	1.33299	1.33251			N/A
4/12/2019	USDCHF	9:30:00 AM	1.00248	1.00245			N/A
4/12/2019	USDCHF	11:30:00 AM	1.00178	1.00167			N/A
4/12/2019	USDCHF	1:30:00 PM	1.00081	1.00094			N/A
4/12/2019	USDCHF	3:30:00 PM	1.00049	1.00051			N/A
4/12/2019	USDCHF.fx	9:30:00 AM	1.00252	1.0024			N/A
4/12/2019	USDCHF.fx	11:30:00 AM	1.00183	1.00161			N/A
4/12/2019	USDCHF.fx	1:30:00 PM	1.00083	1.00088			N/A
4/12/2019	USDCHF.fx	3:30:00 PM	1.00053	1.00046			N/A
4/12/2019	USDCZK	9:30:00 AM	22.69	22.703			N/A
4/12/2019	USDCZK	11:30:00 AM	22.661	22.68			N/A
4/12/2019	USDCZK	1:30:00 PM	22.644	22.664			N/A
4/12/2019	USDCZK	3:30:00 PM	22.631	22.65			N/A
4/12/2019	USDCZK.fx	9:30:00 AM	22.6979	22.6943			N/A
4/12/2019	USDCZK.fx	11:30:00 AM	22.6697	22.6712			N/A
4/12/2019	USDCZK.fx	1:30:00 PM	22.6524	22.6552			N/A
4/12/2019	USDCZK.fx	3:30:00 PM	22.6391	22.641			N/A
4/12/2019	USDDKK	9:30:00 AM	6.6142	6.6156			N/A
4/12/2019	USDDKK	11:30:00 AM	6.6057	6.6085			N/A
4/12/2019	USDDKK	1:30:00 PM	6.5979	6.6011			N/A
4/12/2019	USDDKK	3:30:00 PM	6.5949	6.5979			N/A
4/12/2019	USDDKK.fx	9:30:00 AM	6.61472	6.61359			N/A
4/12/2019	USDDKK.fx	11:30:00 AM	6.60589	6.60617			N/A
4/12/2019	USDDKK.fx	1:30:00 PM	6.59837	6.59909			N/A
4/12/2019	USDDKK.fx	3:30:00 PM	6.5954	6.59593			N/A
4/12/2019	USDHKD	9:30:00 AM	7.8421	7.8419			N/A
4/12/2019	USDHKD	11:30:00 AM	7.8431	7.8435			N/A
4/12/2019	USDHKD	1:30:00 PM	7.8438	7.8442			N/A
4/12/2019	USDHKD	3:30:00 PM	7.8423	7.8424			N/A
4/12/2019	USDHKD.fx	9:30:00 AM	7.842	7.84211			N/A
4/12/2019	USDHKD.fx	11:30:00 AM	7.84304	7.84358			N/A

4/12/2019	USDHKD.fx	1:30:00 PM	7.8437	7.84426			N/A
4/12/2019	USDHKD.fx	3:30:00 PM	7.84239	7.843			N/A
4/12/2019	USDHUF	9:30:00 AM	285.32	285.68			N/A
4/12/2019	USDHUF	11:30:00 AM	284.98	285.41			N/A
4/12/2019	USDHUF	1:30:00 PM	284.64	285.1			N/A
4/12/2019	USDHUF	3:30:00 PM	284.24	284.67			N/A
4/12/2019	USDHUF.fx	9:30:00 AM	285.511	285.475			N/A
4/12/2019	USDHUF.fx	11:30:00 AM	285.178	285.205			N/A
4/12/2019	USDHUF.fx	1:30:00 PM	284.839	284.885			N/A
4/12/2019	USDHUF.fx	3:30:00 PM	284.435	284.475			N/A
4/12/2019	USDINR	9:30:00 AM	64.3	74.29			N/A
4/12/2019	USDINR	11:30:00 AM	64.2	74.18			N/A
4/12/2019	USDINR	1:30:00 PM					N/A
4/12/2019	USDINR	3:30:00 PM					N/A
4/12/2019	USDJPY	9:30:00 AM	111.848	111.839			N/A
4/12/2019	USDJPY	11:30:00 AM	111.925	111.929			N/A
4/12/2019	USDJPY	1:30:00 PM	111.918	111.918			N/A
4/12/2019	USDJPY	3:30:00 PM	111.964	111.939			N/A
4/12/2019	USDJPY.fx	9:30:00 AM	111.854	111.832			N/A
4/12/2019	USDJPY.fx	11:30:00 AM	111.931	111.922			N/A
4/12/2019	USDJPY.fx	1:30:00 PM	111.924	111.911			N/A
4/12/2019	USDJPY.fx	3:30:00 PM	111.97	111.932			N/A
4/12/2019	USDMXN	9:30:00 AM	18.841	18.832			N/A
4/12/2019	USDMXN	11:30:00 AM	18.793	18.796			N/A
4/12/2019	USDMXN	1:30:00 PM	18.779	18.785			N/A
4/12/2019	USDMXN	3:30:00 PM	18.768	18.769			N/A
4/12/2019	USDMXN.f	9:30:00 AM	18.8448	18.8287			N/A
4/12/2019	USDMXN.f	11:30:00 AM	18.7971	18.7926			N/A
4/12/2019	USDMXN.f	1:30:00 PM	18.7824	18.7813			N/A
4/12/2019	USDMXN.f	3:30:00 PM	18.7718	18.7656			N/A
4/12/2019	USDNOK	9:30:00 AM	8.5184	8.5241			N/A
4/12/2019	USDNOK	11:30:00 AM	8.5083	8.5151			N/A
4/12/2019	USDNOK	1:30:00 PM	8.4939	8.501			N/A
4/12/2019	USDNOK	3:30:00 PM	8.4813	8.4886			N/A

4/12/2019	USDNOK.fx	9:30:00 AM	8.52199	8.51977			N/A
4/12/2019	USDNOK.fx	11:30:00 AM	8.51237	8.51081			N/A
4/12/2019	USDNOK.fx	1:30:00 PM	8.49777	8.49671			N/A
4/12/2019	USDNOK.fx	3:30:00 PM	8.48531	8.48421			N/A
4/12/2019	USDPLN	9:30:00 AM	3.7949	3.7951			N/A
4/12/2019	USDPLN	11:30:00 AM	3.7904	3.7913			N/A
4/12/2019	USDPLN	1:30:00 PM	3.7866	3.7878			N/A
4/12/2019	USDPLN	3:30:00 PM	3.7813	3.7824			N/A
4/12/2019	USDPLN.fx	9:30:00 AM	3.79387	3.79603			N/A
4/12/2019	USDPLN.fx	11:30:00 AM	3.78962	3.79206			N/A
4/12/2019	USDPLN.fx	1:30:00 PM	3.78576	3.78861			N/A
4/12/2019	USDPLN.fx	3:30:00 PM	3.78048	3.78314			N/A
4/12/2019	USDRUB	9:30:00 AM					N/A
4/12/2019	USDRUB	11:30:00 AM	64.226	64.607			N/A
4/12/2019	USDRUB	1:30:00 PM	64.083	64.467			N/A
4/12/2019	USDRUB	3:30:00 PM	64.028	64.401			N/A
4/12/2019	USDSEK	9:30:00 AM	9.2726	9.2732			N/A
4/12/2019	USDSEK	11:30:00 AM	9.2691	9.2689			N/A
4/12/2019	USDSEK	1:30:00 PM	9.2681	9.2707			N/A
4/12/2019	USDSEK	3:30:00 PM	9.2561	9.2588			N/A
4/12/2019	USDSEK.fx	9:30:00 AM	9.27493	9.27158			N/A
4/12/2019	USDSEK.fx	11:30:00 AM	9.27142	9.26689			N/A
4/12/2019	USDSEK.fx	1:30:00 PM	9.27045	9.26899			N/A
4/12/2019	USDSEK.fx	3:30:00 PM	9.25844	9.25708			N/A
4/12/2019	USDSGD	9:30:00 AM	1.3565	1.3564			N/A
4/12/2019	USDSGD	11:30:00 AM	1.3556	1.3558			N/A
4/12/2019	USDSGD	1:30:00 PM	1.3538	1.3539			N/A
4/12/2019	USDSGD	3:30:00 PM	1.3532	1.3535			N/A
4/12/2019	USDSGD.fx	9:30:00 AM	1.35644	1.3564			N/A
4/12/2019	USDSGD.fx	11:30:00 AM	1.35551	1.35583			N/A
4/12/2019	USDSGD.fx	1:30:00 PM	1.35375	1.35425			N/A
4/12/2019	USDSGD.fx	3:30:00 PM	1.35311	1.35347			N/A
4/12/2019	USDZAR	9:30:00 AM	14.0222	14.0244			N/A
4/12/2019	USDZAR	11:30:00 AM	13.9647	13.9591			N/A

4/12/2019	USDZAR	1:30:00 PM	13.9663	13.9802			N/A
4/12/2019	USDZAR	3:30:00 PM	13.9294	13.9391			N/A
4/12/2019	USDZAR.fx	9:30:00 AM					N/A
4/12/2019	USDZAR.fx	11:30:00 AM					N/A
4/12/2019	USDZAR.fx	1:30:00 PM					N/A
4/12/2019	USDZAR.fx	3:30:00 PM					N/A
4/12/2019	XAUUSD	9:30:00 AM	1294.18	1294.28			N/A
4/12/2019	XAUUSD	11:30:00 AM	1293.02	1293.3			N/A
4/12/2019	XAUUSD	1:30:00 PM	1294.19	1294.3			N/A
4/12/2019	XAUUSD	3:30:00 PM	1293.62	1292.33			N/A
4/12/2019	ZARJPY	9:30:00 AM	7.96	7.97			N/A
4/12/2019	ZARJPY	11:30:00 AM	8	8.01			N/A
4/12/2019	ZARJPY	1:30:00 PM	7.98	8.01			N/A
4/12/2019	ZARJPY	3:30:00 PM	8.02	8.03			N/A
4/12/2019	ZARJPY.fx	9:30:00 AM	7.977	7.972			N/A
4/12/2019	ZARJPY.fx	11:30:00 AM	8.019	8.013			N/A
4/12/2019	ZARJPY.fx	1:30:00 PM	8.009	8.01			N/A
4/12/2019	ZARJPY.fx	3:30:00 PM	8.032	8.034			N/A
4/15/2019	#AA	9:30:00 AM					N/A
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4/15/2019	#Ripple	1:30:00 PM	0.3242	0.3336			N/A
4/15/2019	#Ripple	3:30:00 PM	0.323	0.3326			N/A
4/15/2019	#S	9:30:00 AM					N/A
4/15/2019	#S	11:30:00 AM					N/A
4/15/2019	#S	1:30:00 PM					N/A
4/15/2019	#S	3:30:00 PM					N/A
4/15/2019	#SBUX	9:30:00 AM					N/A
4/15/2019	#SBUX	11:30:00 AM					N/A
4/15/2019	#SBUX	1:30:00 PM					N/A
4/15/2019	#SBUX	3:30:00 PM					N/A

4/15/2019	#SNE	9:30:00 AM					N/A
4/15/2019	#SNE	11:30:00 AM					N/A
4/15/2019	#SNE	1:30:00 PM					N/A
4/15/2019	#SNE	3:30:00 PM					N/A
4/15/2019	#SPY	9:30:00 AM					N/A
4/15/2019	#SPY	11:30:00 AM					N/A
4/15/2019	#SPY	1:30:00 PM					N/A
4/15/2019	#SPY	3:30:00 PM					N/A
4/15/2019	#T	9:30:00 AM					N/A
4/15/2019	#T	11:30:00 AM					N/A
4/15/2019	#T	1:30:00 PM					N/A
4/15/2019	#T	3:30:00 PM					N/A
4/15/2019	#TEVA	9:30:00 AM					N/A
4/15/2019	#TEVA	11:30:00 AM					N/A
4/15/2019	#TEVA	1:30:00 PM					N/A
4/15/2019	#TEVA	3:30:00 PM					N/A
4/15/2019	#TRI	9:30:00 AM					N/A
4/15/2019	#TRI	11:30:00 AM					N/A
4/15/2019	#TRI	1:30:00 PM					N/A
4/15/2019	#TRI	3:30:00 PM					N/A
4/15/2019	#TRV	9:30:00 AM					N/A
4/15/2019	#TRV	11:30:00 AM					N/A
4/15/2019	#TRV	1:30:00 PM					N/A
4/15/2019	#TRV	3:30:00 PM					N/A
4/15/2019	#TSCO	9:30:00 AM					N/A
4/15/2019	#TSCO	11:30:00 AM					N/A
4/15/2019	#TSCO	1:30:00 PM					N/A
4/15/2019	#TSCO	3:30:00 PM					N/A
4/15/2019	#TSLA	9:30:00 AM					N/A
4/15/2019	#TSLA	11:30:00 AM					N/A
4/15/2019	#TSLA	1:30:00 PM					N/A
4/15/2019	#TSLA	3:30:00 PM					N/A
4/15/2019	#TWTR	9:30:00 AM					N/A
4/15/2019	#TWTR	11:30:00 AM					N/A

4/15/2019	#TWTR	1:30:00 PM					N/A
4/15/2019	#TWTR	3:30:00 PM					N/A
4/15/2019	#UBS	9:30:00 AM					N/A
4/15/2019	#UBS	11:30:00 AM					N/A
4/15/2019	#UBS	1:30:00 PM					N/A
4/15/2019	#UBS	3:30:00 PM					N/A
4/15/2019	#UL	9:30:00 AM					N/A
4/15/2019	#UL	11:30:00 AM					N/A
4/15/2019	#UL	1:30:00 PM					N/A
4/15/2019	#UL	3:30:00 PM					N/A
4/15/2019	#UPS	9:30:00 AM					N/A
4/15/2019	#UPS	11:30:00 AM					N/A
4/15/2019	#UPS	1:30:00 PM					N/A
4/15/2019	#UPS	3:30:00 PM					N/A
4/15/2019	#UTX	9:30:00 AM					N/A
4/15/2019	#UTX	11:30:00 AM					N/A
4/15/2019	#UTX	1:30:00 PM					N/A
4/15/2019	#UTX	3:30:00 PM					N/A
4/15/2019	#V	9:30:00 AM					N/A
4/15/2019	#V	11:30:00 AM					N/A
4/15/2019	#V	1:30:00 PM					N/A
4/15/2019	#V	3:30:00 PM					N/A
4/15/2019	#VOD	9:30:00 AM					N/A
4/15/2019	#VOD	11:30:00 AM					N/A
4/15/2019	#VOD	1:30:00 PM					N/A
4/15/2019	#VOD	3:30:00 PM					N/A
4/15/2019	#VZ	9:30:00 AM					N/A
4/15/2019	#VZ	11:30:00 AM					N/A
4/15/2019	#VZ	1:30:00 PM					N/A
4/15/2019	#VZ	3:30:00 PM					N/A
4/15/2019	#WDC	9:30:00 AM					N/A
4/15/2019	#WDC	11:30:00 AM					N/A
4/15/2019	#WDC	1:30:00 PM					N/A
4/15/2019	#WDC	3:30:00 PM					N/A

4/15/2019	#WFC	9:30:00 AM					N/A
4/15/2019	#WFC	11:30:00 AM					N/A
4/15/2019	#WFC	1:30:00 PM					N/A
4/15/2019	#WFC	3:30:00 PM					N/A
4/15/2019	#WMT	9:30:00 AM					N/A
4/15/2019	#WMT	11:30:00 AM					N/A
4/15/2019	#WMT	1:30:00 PM					N/A
4/15/2019	#WMT	3:30:00 PM					N/A
4/15/2019	#XOM	9:30:00 AM					N/A
4/15/2019	#XOM	11:30:00 AM					N/A
4/15/2019	#XOM	1:30:00 PM					N/A
4/15/2019	#XOM	3:30:00 PM					N/A
4/15/2019	#YHOO	9:30:00 AM					N/A
4/15/2019	#YHOO	11:30:00 AM					N/A
4/15/2019	#YHOO	1:30:00 PM					N/A
4/15/2019	#YHOO	3:30:00 PM					N/A
4/15/2019	#ZNGA	9:30:00 AM					N/A
4/15/2019	#ZNGA	11:30:00 AM					N/A
4/15/2019	#ZNGA	1:30:00 PM					N/A
4/15/2019	#ZNGA	3:30:00 PM					N/A
4/15/2019	AUDCAD	9:30:00 AM	0.95582	0.95653			N/A
4/15/2019	AUDCAD	11:30:00 AM	0.95575	0.95633			N/A
4/15/2019	AUDCAD	1:30:00 PM	0.95619	0.95685			N/A
4/15/2019	AUDCAD	3:30:00 PM	0.95449	0.95484			N/A
4/15/2019	AUDCAD.fx	9:30:00 AM	0.95615	0.95618			N/A
4/15/2019	AUDCAD.fx	11:30:00 AM	0.95608	0.95597			N/A
4/15/2019	AUDCAD.fx	1:30:00 PM	0.95653	0.9565			N/A
4/15/2019	AUDCAD.fx	3:30:00 PM	0.95479	0.95449			N/A
4/15/2019	AUDCHF	9:30:00 AM	0.71763	0.71833			N/A
4/15/2019	AUDCHF	11:30:00 AM	0.71811	0.71873			N/A
4/15/2019	AUDCHF	1:30:00 PM	0.71917	0.71987			N/A
4/15/2019	AUDCHF	3:30:00 PM	0.71931	0.71975			N/A
4/15/2019	AUDCHF.fx	9:30:00 AM	0.71796	0.71799			N/A
4/15/2019	AUDCHF.fx	11:30:00 AM	0.71845	0.71838			N/A

4/15/2019	AUDCHF.fx	1:30:00 PM	0.71951	0.71952			N/A
4/15/2019	AUDCHF.fx	3:30:00 PM	0.71961	0.71939			N/A
4/15/2019	AUDCZK	9:30:00 AM	16.208	16.222			N/A
4/15/2019	AUDCZK	11:30:00 AM	16.21	16.227			N/A
4/15/2019	AUDCZK	1:30:00 PM	16.233	16.248			N/A
4/15/2019	AUDCZK	3:30:00 PM	16.234	16.247			N/A
4/15/2019	AUDDKK	9:30:00 AM	4.7286	4.7335			N/A
4/15/2019	AUDDKK	11:30:00 AM	4.726	4.7304			N/A
4/15/2019	AUDDKK	1:30:00 PM	4.7324	4.7368			N/A
4/15/2019	AUDDKK	3:30:00 PM	4.7328	4.7363			N/A
4/15/2019	AUDHKD	9:30:00 AM	5.6167	5.6205			N/A
4/15/2019	AUDHKD	11:30:00 AM	5.618	5.6219			N/A
4/15/2019	AUDHKD	1:30:00 PM	5.6209	5.6244			N/A
4/15/2019	AUDHKD	3:30:00 PM	5.623	5.6256			N/A
4/15/2019	AUDHUF	9:30:00 AM	203.57	203.72			N/A
4/15/2019	AUDHUF	11:30:00 AM	203.31	203.55			N/A
4/15/2019	AUDHUF	1:30:00 PM	203.2	203.43			N/A
4/15/2019	AUDHUF	3:30:00 PM	203	203.22			N/A
4/15/2019	AUDJPY	9:30:00 AM	80.232	80.29			N/A
4/15/2019	AUDJPY	11:30:00 AM	80.214	80.278			N/A
4/15/2019	AUDJPY	1:30:00 PM	80.269	80.336			N/A
4/15/2019	AUDJPY	3:30:00 PM	80.339	80.39			N/A
4/15/2019	AUDJPY.fx	9:30:00 AM	80.266	80.256			N/A
4/15/2019	AUDJPY.fx	11:30:00 AM	80.247	80.243			N/A
4/15/2019	AUDJPY.fx	1:30:00 PM	80.302	80.301			N/A
4/15/2019	AUDJPY.fx	3:30:00 PM	80.374	80.354			N/A
4/15/2019	AUDMXN	9:30:00 AM	13.4548	13.4625			N/A
4/15/2019	AUDMXN	11:30:00 AM	13.4452	13.4559			N/A
4/15/2019	AUDMXN	1:30:00 PM	13.4597	13.4688			N/A
4/15/2019	AUDMXN	3:30:00 PM	13.4697	13.4747			N/A
4/15/2019	AUDNOK	9:30:00 AM	6.0863	6.091			N/A
4/15/2019	AUDNOK	11:30:00 AM	6.0852	6.0896			N/A
4/15/2019	AUDNOK	1:30:00 PM	6.0956	6.1005			N/A
4/15/2019	AUDNOK	3:30:00 PM	6.0905	6.0944			N/A

4/15/2019	AUDNOK.f	9:30:00 AM	6.0874	6.0894			N/A
4/15/2019	AUDNOK.f	11:30:00 AM	6.0867	6.0878			N/A
4/15/2019	AUDNOK.f	1:30:00 PM	6.0972	6.0987			N/A
4/15/2019	AUDNOK.f	3:30:00 PM	6.0917	6.0926			N/A
4/15/2019	AUDNZD	9:30:00 AM	1.05834	1.05917			N/A
4/15/2019	AUDNZD	11:30:00 AM	1.05935	1.06025			N/A
4/15/2019	AUDNZD	1:30:00 PM	1.06036	1.06126			N/A
4/15/2019	AUDNZD	3:30:00 PM	1.06066	1.0615			N/A
4/15/2019	AUDNZD.f	9:30:00 AM	1.05877	1.05873			N/A
4/15/2019	AUDNZD.f	11:30:00 AM	1.05978	1.05981			N/A
4/15/2019	AUDNZD.f	1:30:00 PM	1.06078	1.06082			N/A
4/15/2019	AUDNZD.f	3:30:00 PM	1.06109	1.06106			N/A
4/15/2019	AUDPLN	9:30:00 AM	2.7111	2.714			N/A
4/15/2019	AUDPLN	11:30:00 AM	2.7096	2.7127			N/A
4/15/2019	AUDPLN	1:30:00 PM	2.7097	2.7126			N/A
4/15/2019	AUDPLN	3:30:00 PM	2.7097	2.7125			N/A
4/15/2019	AUDSEK	9:30:00 AM	6.6383	6.6378			N/A
4/15/2019	AUDSEK	11:30:00 AM	6.6323	6.635			N/A
4/15/2019	AUDSEK	1:30:00 PM	6.6362	6.6386			N/A
4/15/2019	AUDSEK	3:30:00 PM	6.6362	6.638			N/A
4/15/2019	AUDSEK.f	9:30:00 AM	6.6337	6.6425			N/A
4/15/2019	AUDSEK.f	11:30:00 AM	6.6277	6.6396			N/A
4/15/2019	AUDSEK.f	1:30:00 PM	6.6316	6.6431			N/A
4/15/2019	AUDSEK.f	3:30:00 PM	6.6311	6.6423			N/A
4/15/2019	AUDSGD	9:30:00 AM	0.9695	0.9698			N/A
4/15/2019	AUDSGD	11:30:00 AM	0.9695	0.9697			N/A
4/15/2019	AUDSGD	1:30:00 PM	0.97	0.9703			N/A
4/15/2019	AUDSGD	3:30:00 PM	0.9705	0.9705			N/A
4/15/2019	AUDSGD.f	9:30:00 AM	0.96956	0.96964			N/A
4/15/2019	AUDSGD.f	11:30:00 AM	0.96958	0.96959			N/A
4/15/2019	AUDSGD.f	1:30:00 PM	0.97008	0.97016			N/A
4/15/2019	AUDSGD.f	3:30:00 PM	0.97054	0.97044			N/A
4/15/2019	AUDUSD	9:30:00 AM	0.71689	0.71703			N/A
4/15/2019	AUDUSD	11:30:00 AM	0.71692	0.71699			N/A

4/15/2019	AUDUSD	1:30:00 PM	0.71734	0.71744			N/A
4/15/2019	AUDUSD	3:30:00 PM	0.71766	0.71754			N/A
4/15/2019	AUDUSD.fx	9:30:00 AM	0.71694	0.71697			N/A
4/15/2019	AUDUSD.fx	11:30:00 AM	0.71697	0.71694			N/A
4/15/2019	AUDUSD.fx	1:30:00 PM	0.71739	0.71738			N/A
4/15/2019	AUDUSD.fx	3:30:00 PM	0.7177	0.71748			N/A
4/15/2019	AUDZAR	9:30:00 AM	10.0149	10.0227			N/A
4/15/2019	AUDZAR	11:30:00 AM	9.9826	9.9952			N/A
4/15/2019	AUDZAR	1:30:00 PM	10.0139	10.0263			N/A
4/15/2019	AUDZAR	3:30:00 PM	10.0231	10.0375			N/A
4/15/2019	AUS200.i	9:30:00 AM					N/A
4/15/2019	AUS200.i	11:30:00 AM	6250.68	6254.48			N/A
4/15/2019	AUS200.i	1:30:00 PM	6255.18	6258.18			N/A
4/15/2019	AUS200.i	3:30:00 PM	6251.68	6254.98			N/A
4/15/2019	BCHUSD	9:30:00 AM	302.28	313.93			N/A
4/15/2019	BCHUSD	11:30:00 AM	301.73	312.91			N/A
4/15/2019	BCHUSD	1:30:00 PM	300.62	311.74			N/A
4/15/2019	BCHUSD	3:30:00 PM	297.2	308.85			N/A
4/15/2019	CADCHF	9:30:00 AM	0.75054	0.75123			N/A
4/15/2019	CADCHF	11:30:00 AM	0.7512	0.75178			N/A
4/15/2019	CADCHF	1:30:00 PM	0.75187	0.75257			N/A
4/15/2019	CADCHF	3:30:00 PM	0.75338	0.75408			N/A
4/15/2019	CADCHF.fx	9:30:00 AM	0.75088	0.75088			N/A
4/15/2019	CADCHF.fx	11:30:00 AM	0.75155	0.75143			N/A
4/15/2019	CADCHF.fx	1:30:00 PM	0.75221	0.75221			N/A
4/15/2019	CADCHF.fx	3:30:00 PM	0.75371	0.75374			N/A
4/15/2019	CADCZK	9:30:00 AM	16.955	16.97			N/A
4/15/2019	CADCZK	11:30:00 AM	16.96	16.974			N/A
4/15/2019	CADCZK	1:30:00 PM	16.973	16.989			N/A
4/15/2019	CADCZK	3:30:00 PM	17.007	17.022			N/A
4/15/2019	CADDDKK	9:30:00 AM	4.946	4.95			N/A
4/15/2019	CADDDKK	11:30:00 AM	4.945	4.949			N/A
4/15/2019	CADDDKK	1:30:00 PM	4.949	4.952			N/A
4/15/2019	CADDDKK	3:30:00 PM	4.959	4.963			N/A

4/15/2019	CADHKD	9:30:00 AM	5.8757	5.8794			N/A
4/15/2019	CADHKD	11:30:00 AM	5.8771	5.881			N/A
4/15/2019	CADHKD	1:30:00 PM	5.8773	5.8808			N/A
4/15/2019	CADHKD	3:30:00 PM	5.8905	5.8943			N/A
4/15/2019	CADHUF	9:30:00 AM	212.99	213.07			N/A
4/15/2019	CADHUF	11:30:00 AM	212.75	212.87			N/A
4/15/2019	CADHUF	1:30:00 PM	212.52	212.67			N/A
4/15/2019	CADHUF	3:30:00 PM	212.72	212.88			N/A
4/15/2019	CADJPY	9:30:00 AM	83.917	83.972			N/A
4/15/2019	CADJPY	11:30:00 AM	83.908	83.962			N/A
4/15/2019	CADJPY	1:30:00 PM	83.921	83.981			N/A
4/15/2019	CADJPY	3:30:00 PM	84.154	84.205			N/A
4/15/2019	CADJPY.fx	9:30:00 AM	83.949	83.937			N/A
4/15/2019	CADJPY.fx	11:30:00 AM	83.941	83.927			N/A
4/15/2019	CADJPY.fx	1:30:00 PM	83.955	83.946			N/A
4/15/2019	CADJPY.fx	3:30:00 PM	84.189	84.171			N/A
4/15/2019	CADMXN	9:30:00 AM	14.0731	14.0844			N/A
4/15/2019	CADMXN	11:30:00 AM	14.0652	14.0769			N/A
4/15/2019	CADMXN	1:30:00 PM	14.0727	14.0836			N/A
4/15/2019	CADMXN	3:30:00 PM	14.1095	14.1201			N/A
4/15/2019	CADNOK	9:30:00 AM	6.3642	6.3667			N/A
4/15/2019	CADNOK	11:30:00 AM	6.3637	6.3683			N/A
4/15/2019	CADNOK	1:30:00 PM	6.3719	6.3761			N/A
4/15/2019	CADNOK	3:30:00 PM	6.3786	6.3831			N/A
4/15/2019	CADPLN	9:30:00 AM	2.8348	2.8367			N/A
4/15/2019	CADPLN	11:30:00 AM	2.8345	2.8364			N/A
4/15/2019	CADPLN	1:30:00 PM	2.8331	2.8347			N/A
4/15/2019	CADPLN	3:30:00 PM	2.8386	2.8404			N/A
4/15/2019	CADSEK	9:30:00 AM	6.9409	6.941			N/A
4/15/2019	CADSEK	11:30:00 AM	6.9359	6.9389			N/A
4/15/2019	CADSEK	1:30:00 PM	6.9365	6.9395			N/A
4/15/2019	CADSEK	3:30:00 PM	6.9494	6.9532			N/A
4/15/2019	CADSGD	9:30:00 AM					N/A
4/15/2019	CADSGD	11:30:00 AM	1.0135	1.0138			N/A

4/15/2019	CADSGD	1:30:00 PM	1.0135	1.0138			N/A
4/15/2019	CADSGD	3:30:00 PM	1.0157	1.0159			N/A
4/15/2019	CADZAR	9:30:00 AM	10.4748	10.4846			N/A
4/15/2019	CADZAR	11:30:00 AM	10.4415	10.4573			N/A
4/15/2019	CADZAR	1:30:00 PM	10.4699	10.4839			N/A
4/15/2019	CADZAR	3:30:00 PM	10.5019	10.5167			N/A
4/15/2019	CHFCZK	9:30:00 AM	22.584	22.596			N/A
4/15/2019	CHFCZK	11:30:00 AM	22.572	22.587			N/A
4/15/2019	CHFCZK	1:30:00 PM	22.568	22.584			N/A
4/15/2019	CHFCZK	3:30:00 PM	22.568	22.583			N/A
4/15/2019	CHFDKK	9:30:00 AM	6.588	6.59			N/A
4/15/2019	CHFDKK	11:30:00 AM	6.58	6.582			N/A
4/15/2019	CHFDKK	1:30:00 PM	6.579	6.582			N/A
4/15/2019	CHFDKK	3:30:00 PM	6.579	6.582			N/A
4/15/2019	CHFDKK.fx	9:30:00 AM	6.5863	6.5923			N/A
4/15/2019	CHFDKK.fx	11:30:00 AM	6.5787	6.5837			N/A
4/15/2019	CHFDKK.fx	1:30:00 PM	6.5771	6.5831			N/A
4/15/2019	CHFDKK.fx	3:30:00 PM	6.5774	6.583			N/A
4/15/2019	CHFHKD	9:30:00 AM	7.8251	7.8288			N/A
4/15/2019	CHFHKD	11:30:00 AM	7.823	7.8263			N/A
4/15/2019	CHFHKD	1:30:00 PM	7.8142	7.8179			N/A
4/15/2019	CHFHKD	3:30:00 PM	7.8168	7.8206			N/A
4/15/2019	CHFHUF	9:30:00 AM	283.56	283.84			N/A
4/15/2019	CHFHUF	11:30:00 AM	283.04	283.39			N/A
4/15/2019	CHFHUF	1:30:00 PM	282.44	282.82			N/A
4/15/2019	CHFHUF	3:30:00 PM	282.16	282.53			N/A
4/15/2019	CHFJPY	9:30:00 AM	111.761	111.818			N/A
4/15/2019	CHFJPY	11:30:00 AM	111.662	111.73			N/A
4/15/2019	CHFJPY	1:30:00 PM	111.575	111.638			N/A
4/15/2019	CHFJPY	3:30:00 PM	111.659	111.708			N/A
4/15/2019	CHFJPY.fx	9:30:00 AM	111.793	111.783			N/A
4/15/2019	CHFJPY.fx	11:30:00 AM	111.695	111.695			N/A
4/15/2019	CHFJPY.fx	1:30:00 PM	111.61	111.603			N/A
4/15/2019	CHFJPY.fx	3:30:00 PM	111.692	111.678			N/A

4/15/2019	CHF MXN	9:30:00 AM	18.7426	18.7572			N/A
4/15/2019	CHF MXN	11:30:00 AM	18.7187	18.7327			N/A
4/15/2019	CHF MXN	1:30:00 PM	18.7086	18.7247			N/A
4/15/2019	CHF MXN	3:30:00 PM	18.7206	18.7338			N/A
4/15/2019	CHF NOK	9:30:00 AM	8.4766	8.4838			N/A
4/15/2019	CHF NOK	11:30:00 AM	8.4702	8.4757			N/A
4/15/2019	CHF NOK	1:30:00 PM	8.4712	8.4788			N/A
4/15/2019	CHF NOK	3:30:00 PM	8.4637	8.4704			N/A
4/15/2019	CHF NOK.fx	9:30:00 AM	8.47988	8.4806			N/A
4/15/2019	CHF NOK.fx	11:30:00 AM	8.47352	8.47229			N/A
4/15/2019	CHF NOK.fx	1:30:00 PM	8.47456	8.47542			N/A
4/15/2019	CHF NOK.fx	3:30:00 PM	8.46701	8.46722			N/A
4/15/2019	CHF PLN	9:30:00 AM	3.7767	3.7794			N/A
4/15/2019	CHF PLN	11:30:00 AM	3.7725	3.775			N/A
4/15/2019	CHF PLN	1:30:00 PM	3.7667	3.7693			N/A
4/15/2019	CHF PLN	3:30:00 PM	3.7666	3.7691			N/A
4/15/2019	CHF PLN.fx	9:30:00 AM	3.77416	3.78176			N/A
4/15/2019	CHF PLN.fx	11:30:00 AM	3.77014	3.77733			N/A
4/15/2019	CHF PLN.fx	1:30:00 PM	3.76434	3.77154			N/A
4/15/2019	CHF PLN.fx	3:30:00 PM	3.76416	3.77187			N/A
4/15/2019	CHF SEK	9:30:00 AM	9.2443	9.2433			N/A
4/15/2019	CHF SEK	11:30:00 AM	9.2307	9.2348			N/A
4/15/2019	CHF SEK	1:30:00 PM	9.2222	9.2257			N/A
4/15/2019	CHF SEK	3:30:00 PM	9.2208	9.2255			N/A
4/15/2019	CHF SGD	9:30:00 AM	1.3503	1.3507			N/A
4/15/2019	CHF SGD	11:30:00 AM	1.3495	1.3498			N/A
4/15/2019	CHF SGD	1:30:00 PM	1.348	1.3486			N/A
4/15/2019	CHF SGD	3:30:00 PM	1.3487	1.349			N/A
4/15/2019	CHF SGD.fx	9:30:00 AM	1.35044	1.35051			N/A
4/15/2019	CHF SGD.fx	11:30:00 AM	1.34958	1.34959			N/A
4/15/2019	CHF SGD.fx	1:30:00 PM	1.34821	1.34836			N/A
4/15/2019	CHF SGD.fx	3:30:00 PM	1.34891	1.34883			N/A
4/15/2019	CHF ZAR	9:30:00 AM	13.9543	13.9599			N/A
4/15/2019	CHF ZAR	11:30:00 AM	13.9009	13.9109			N/A

4/15/2019	CHFZAR	1:30:00 PM	13.9237	13.934			N/A
4/15/2019	CHFZAR	3:30:00 PM	13.9384	13.9503			N/A
4/15/2019	CZKJPY	9:30:00 AM	4.948	4.951			N/A
4/15/2019	CZKJPY	11:30:00 AM					N/A
4/15/2019	CZKJPY	1:30:00 PM	4.943	4.947			N/A
4/15/2019	CZKJPY	3:30:00 PM	4.947	4.951			N/A
4/15/2019	DAX30.i	9:30:00 AM	12027.18	12025.18			N/A
4/15/2019	DAX30.i	11:30:00 AM	12014.93	12014.18			N/A
4/15/2019	DAX30.i	1:30:00 PM	12041.43	12035.18			N/A
4/15/2019	DAX30.i	3:30:00 PM	12030.93	12028.78			N/A
4/15/2019	DJ30.i	9:30:00 AM					N/A
4/15/2019	DJ30.i	11:30:00 AM					N/A
4/15/2019	DJ30.i	1:30:00 PM					N/A
4/15/2019	DJ30.i	3:30:00 PM					N/A
4/15/2019	DKKJPY	9:30:00 AM	16.97	16.99			N/A
4/15/2019	DKKJPY	11:30:00 AM					N/A
4/15/2019	DKKJPY	1:30:00 PM					N/A
4/15/2019	DKKJPY	3:30:00 PM	16.98	16.99			N/A
4/15/2019	EURAUD	9:30:00 AM	1.5768	1.57726			N/A
4/15/2019	EURAUD	11:30:00 AM	1.57773	1.57803			N/A
4/15/2019	EURAUD	1:30:00 PM	1.57559	1.57597			N/A
4/15/2019	EURAUD	3:30:00 PM	1.57578	1.57584			N/A
4/15/2019	EURAUD.fx	9:30:00 AM	1.577	1.57706			N/A
4/15/2019	EURAUD.fx	11:30:00 AM	1.57794	1.57782			N/A
4/15/2019	EURAUD.fx	1:30:00 PM	1.57579	1.57576			N/A
4/15/2019	EURAUD.fx	3:30:00 PM	1.57598	1.57567			N/A
4/15/2019	EURCAD	9:30:00 AM	1.50809	1.50894			N/A
4/15/2019	EURCAD	11:30:00 AM	1.50886	1.5094			N/A
4/15/2019	EURCAD	1:30:00 PM	1.50749	1.50827			N/A
4/15/2019	EURCAD	3:30:00 PM	1.50455	1.50527			N/A
4/15/2019	EURCAD.fx	9:30:00 AM	1.5085	1.50852			N/A
4/15/2019	EURCAD.fx	11:30:00 AM	1.50927	1.50899			N/A
4/15/2019	EURCAD.fx	1:30:00 PM	1.50791	1.50785			N/A
4/15/2019	EURCAD.fx	3:30:00 PM	1.50496	1.50482			N/A

4/15/2019	EURCHF	9:30:00 AM	1.13266	1.13273			N/A
4/15/2019	EURCHF	11:30:00 AM	1.13409	1.13401			N/A
4/15/2019	EURCHF	1:30:00 PM	1.1342	1.13432			N/A
4/15/2019	EURCHF	3:30:00 PM	1.1343	1.1343			N/A
4/15/2019	EURCHF.fx	9:30:00 AM	1.13271	1.13267			N/A
4/15/2019	EURCHF.fx	11:30:00 AM	1.13416	1.13395			N/A
4/15/2019	EURCHF.fx	1:30:00 PM	1.13425	1.13426			N/A
4/15/2019	EURCHF.fx	3:30:00 PM	1.13433	1.13424			N/A
4/15/2019	EURCZK	9:30:00 AM	25.568	25.602			N/A
4/15/2019	EURCZK	11:30:00 AM					N/A
4/15/2019	EURCZK	1:30:00 PM	25.584	25.623			N/A
4/15/2019	EURCZK	3:30:00 PM	25.584	25.623			N/A
4/15/2019	EURDKK	9:30:00 AM	7.4631	7.4641			N/A
4/15/2019	EURDKK	11:30:00 AM	7.4625	7.4634			N/A
4/15/2019	EURDKK	1:30:00 PM	7.462	7.4628			N/A
4/15/2019	EURDKK	3:30:00 PM	7.4631	7.4642			N/A
4/15/2019	EURGBP	9:30:00 AM	0.86405	0.86402			N/A
4/15/2019	EURGBP	11:30:00 AM	0.86361	0.86365			N/A
4/15/2019	EURGBP	1:30:00 PM	0.86312	0.86324			N/A
4/15/2019	EURGBP	3:30:00 PM	0.8628	0.86277			N/A
4/15/2019	EURGBP.fx	9:30:00 AM	0.86408	0.86397			N/A
4/15/2019	EURGBP.fx	11:30:00 AM	0.86364	0.8636			N/A
4/15/2019	EURGBP.fx	1:30:00 PM	0.86316	0.86319			N/A
4/15/2019	EURGBP.fx	3:30:00 PM	0.86283	0.86273			N/A
4/15/2019	EURHKD	9:30:00 AM	8.8639	8.869			N/A
4/15/2019	EURHKD	11:30:00 AM	8.8712	8.8757			N/A
4/15/2019	EURHKD	1:30:00 PM	8.8631	8.8684			N/A
4/15/2019	EURHKD	3:30:00 PM	8.8664	8.8708			N/A
4/15/2019	EURHKD.fx	9:30:00 AM	8.86644	8.8665			N/A
4/15/2019	EURHKD.fx	11:30:00 AM	8.87382	8.87312			N/A
4/15/2019	EURHKD.fx	1:30:00 PM	8.86567	8.86583			N/A
4/15/2019	EURHKD.fx	3:30:00 PM	8.86897	8.86826			N/A
4/15/2019	EURHUF	9:30:00 AM	321.33	321.86			N/A
4/15/2019	EURHUF	11:30:00 AM	320.88	321.61			N/A

4/15/2019	EURHUF	1:30:00 PM	320.3	321.03			N/A
4/15/2019	EURHUF	3:30:00 PM	319.95	320.6			N/A
4/15/2019	EURHUF.fx	9:30:00 AM	321.561	321.585			N/A
4/15/2019	EURHUF.fx	11:30:00 AM	321.161	321.348			N/A
4/15/2019	EURHUF.fx	1:30:00 PM	320.571	320.75			N/A
4/15/2019	EURHUF.fx	3:30:00 PM	320.241	320.428			N/A
4/15/2019	EURJPY	9:30:00 AM	126.634	126.616			N/A
4/15/2019	EURJPY	11:30:00 AM	126.67	126.669			N/A
4/15/2019	EURJPY	1:30:00 PM	126.587	126.593			N/A
4/15/2019	EURJPY	3:30:00 PM	126.692	126.676			N/A
4/15/2019	EURJPY.fx	9:30:00 AM	126.636	126.613			N/A
4/15/2019	EURJPY.fx	11:30:00 AM	126.672	126.666			N/A
4/15/2019	EURJPY.fx	1:30:00 PM	126.589	126.589			N/A
4/15/2019	EURJPY.fx	3:30:00 PM	126.694	126.679			N/A
4/15/2019	EURMXN	9:30:00 AM	21.2319	21.2496			N/A
4/15/2019	EURMXN	11:30:00 AM	21.2292	21.2469			N/A
4/15/2019	EURMXN	1:30:00 PM	21.2216	21.2412			N/A
4/15/2019	EURMXN	3:30:00 PM	21.2362	21.2509			N/A
4/15/2019	EURMXN.f	9:30:00 AM	21.2404	21.2411			N/A
4/15/2019	EURMXN.f	11:30:00 AM	21.2376	21.2386			N/A
4/15/2019	EURMXN.f	1:30:00 PM	21.23	21.2327			N/A
4/15/2019	EURMXN.f	3:30:00 PM	21.2446	21.2425			N/A
4/15/2019	EURNOK	9:30:00 AM	9.5998	9.6111			N/A
4/15/2019	EURNOK	11:30:00 AM	9.6029	9.6146			N/A
4/15/2019	EURNOK	1:30:00 PM	9.6071	9.6189			N/A
4/15/2019	EURNOK	3:30:00 PM	9.598	9.6101			N/A
4/15/2019	EURNOK.fx	9:30:00 AM	9.60525	9.60575			N/A
4/15/2019	EURNOK.fx	11:30:00 AM	9.60823	9.60911			N/A
4/15/2019	EURNOK.fx	1:30:00 PM	9.61252	9.61347			N/A
4/15/2019	EURNOK.fx	3:30:00 PM	9.60333	9.60486			N/A
4/15/2019	EURNZD	9:30:00 AM	1.66993	1.67073			N/A
4/15/2019	EURNZD	11:30:00 AM	1.67257	1.67318			N/A
4/15/2019	EURNZD	1:30:00 PM	1.67186	1.67268			N/A
4/15/2019	EURNZD	3:30:00 PM	1.67244	1.67282			N/A

4/15/2019	EURNZD.fx	9:30:00 AM	1.67034	1.67032			N/A
4/15/2019	EURNZD.fx	11:30:00 AM	1.67299	1.67276			N/A
4/15/2019	EURNZD.fx	1:30:00 PM	1.67226	1.67225			N/A
4/15/2019	EURNZD.fx	3:30:00 PM	1.67285	1.67246			N/A
4/15/2019	EURPLN	9:30:00 AM	4.2781	4.2808			N/A
4/15/2019	EURPLN	11:30:00 AM	4.278	4.2814			N/A
4/15/2019	EURPLN	1:30:00 PM	4.2725	4.2751			N/A
4/15/2019	EURPLN	3:30:00 PM	4.2724	4.2755			N/A
4/15/2019	EURPLN.fx	9:30:00 AM	4.27717	4.28142			N/A
4/15/2019	EURPLN.fx	11:30:00 AM	4.27737	4.28192			N/A
4/15/2019	EURPLN.fx	1:30:00 PM	4.27187	4.27572			N/A
4/15/2019	EURPLN.fx	3:30:00 PM	4.27167	4.27612			N/A
4/15/2019	EURRUB	9:30:00 AM					N/A
4/15/2019	EURRUB	11:30:00 AM	72.364	72.793			N/A
4/15/2019	EURRUB	1:30:00 PM	72.314	72.755			N/A
4/15/2019	EURRUB	3:30:00 PM	72.364	72.804			N/A
4/15/2019	EURSEK	9:30:00 AM	10.473	10.4717			N/A
4/15/2019	EURSEK	11:30:00 AM	10.4696	10.4738			N/A
4/15/2019	EURSEK	1:30:00 PM	10.462	10.4651			N/A
4/15/2019	EURSEK	3:30:00 PM	10.4602	10.464			N/A
4/15/2019	EURSEK.fx	9:30:00 AM	10.47502	10.47			N/A
4/15/2019	EURSEK.fx	11:30:00 AM	10.47102	10.47212			N/A
4/15/2019	EURSEK.fx	1:30:00 PM	10.46368	10.46329			N/A
4/15/2019	EURSEK.fx	3:30:00 PM	10.46163	10.46242			N/A
4/15/2019	EURSGD	9:30:00 AM	1.5293	1.5301			N/A
4/15/2019	EURSGD	11:30:00 AM	1.5301	1.5309			N/A
4/15/2019	EURSGD	1:30:00 PM	1.5289	1.5298			N/A
4/15/2019	EURSGD	3:30:00 PM	1.5296	1.5304			N/A
4/15/2019	EURSGD.fx	9:30:00 AM	1.5297	1.52971			N/A
4/15/2019	EURSGD.fx	11:30:00 AM	1.53054	1.53047			N/A
4/15/2019	EURSGD.fx	1:30:00 PM	1.52927	1.52934			N/A
4/15/2019	EURSGD.fx	3:30:00 PM	1.52998	1.52999			N/A
4/15/2019	EURUSD	9:30:00 AM	1.13092	1.13099			N/A
4/15/2019	EURUSD	11:30:00 AM	1.13159	1.13159			N/A

4/15/2019	EURUSD	1:30:00 PM	1.13068	1.13077	500	500	N/A
4/15/2019	EURUSD	3:30:00 PM	1.13113	1.13111			N/A
4/15/2019	EURUSD.fx	9:30:00 AM	1.13112	1.13109			N/A
4/15/2019	EURUSD.fx	11:30:00 AM	1.13179	1.13169			N/A
4/15/2019	EURUSD.fx	1:30:00 PM	1.13088	1.13087			N/A
4/15/2019	EURUSD.fx	3:30:00 PM	1.13133	1.13119			N/A
4/15/2019	EURZAR	9:30:00 AM	15.81	15.8184			N/A
4/15/2019	EURZAR	11:30:00 AM	15.7659	15.7807			N/A
4/15/2019	EURZAR	1:30:00 PM	15.7956	15.8107			N/A
4/15/2019	EURZAR	3:30:00 PM	15.8118	15.8283			N/A
4/15/2019	EURZAR.fx	9:30:00 AM	15.80932	15.81872			N/A
4/15/2019	EURZAR.fx	11:30:00 AM	15.76525	15.78114			N/A
4/15/2019	EURZAR.fx	1:30:00 PM	15.79506	15.8116			N/A
4/15/2019	EURZAR.fx	3:30:00 PM	15.81135	15.82826			N/A
4/15/2019	GBPAUD	9:30:00 AM	1.82563	1.82612			N/A
4/15/2019	GBPAUD	11:30:00 AM	1.82743	1.82811			N/A
4/15/2019	GBPAUD	1:30:00 PM	1.82596	1.82663			N/A
4/15/2019	GBPAUD	3:30:00 PM	1.82693	1.82722			N/A
4/15/2019	GBPAUD.fx	9:30:00 AM	1.82602	1.82573			N/A
4/15/2019	GBPAUD.fx	11:30:00 AM	1.82782	1.82771			N/A
4/15/2019	GBPAUD.fx	1:30:00 PM	1.82635	1.82622			N/A
4/15/2019	GBPAUD.fx	3:30:00 PM	1.82732	1.82681			N/A
4/15/2019	GBPCAD	9:30:00 AM	1.74565	1.74613			N/A
4/15/2019	GBPCAD	11:30:00 AM	1.74708	1.74771			N/A
4/15/2019	GBPCAD	1:30:00 PM	1.74648	1.74729			N/A
4/15/2019	GBPCAD	3:30:00 PM	1.74385	1.74445			N/A
4/15/2019	GBPCAD.fx	9:30:00 AM	1.74605	1.74574			N/A
4/15/2019	GBPCAD.fx	11:30:00 AM	1.74746	1.74733			N/A
4/15/2019	GBPCAD.fx	1:30:00 PM	1.74686	1.7469			N/A
4/15/2019	GBPCAD.fx	3:30:00 PM	1.74422	1.74404			N/A
4/15/2019	GBPCHF	9:30:00 AM	1.31079	1.31105			N/A
4/15/2019	GBPCHF	11:30:00 AM	1.31293	1.3133			N/A
4/15/2019	GBPCHF	1:30:00 PM	1.31381	1.31429			N/A
4/15/2019	GBPCHF	3:30:00 PM	1.31451	1.31485			N/A

4/15/2019	GBPCHF.fx	9:30:00 AM	1.31097	1.31086			N/A
4/15/2019	GBPCHF.fx	11:30:00 AM	1.31312	1.3131			N/A
4/15/2019	GBPCHF.fx	1:30:00 PM	1.314	1.31407			N/A
4/15/2019	GBPCHF.fx	3:30:00 PM	1.31469	1.31464			N/A
4/15/2019	GBPCZK	9:30:00 AM	29.602	29.615			N/A
4/15/2019	GBPCZK	11:30:00 AM	29.635	29.655			N/A
4/15/2019	GBPCZK	1:30:00 PM	29.651	29.672			N/A
4/15/2019	GBPCZK	3:30:00 PM	29.666	29.683			N/A
4/15/2019	GBPDKK	9:30:00 AM	8.634	8.644			N/A
4/15/2019	GBPDKK	11:30:00 AM	8.637	8.648			N/A
4/15/2019	GBPDKK	1:30:00 PM	8.642	8.653			N/A
4/15/2019	GBPDKK	3:30:00 PM	8.646	8.656			N/A
4/15/2019	GBPDKK.fx	9:30:00 AM	8.6325	8.6442			N/A
4/15/2019	GBPDKK.fx	11:30:00 AM	8.6358	8.6482			N/A
4/15/2019	GBPDKK.fx	1:30:00 PM	8.6401	8.6531			N/A
4/15/2019	GBPDKK.fx	3:30:00 PM	8.6449	8.6566			N/A
4/15/2019	GBPHKD	9:30:00 AM	10.2575	10.2607			N/A
4/15/2019	GBPHKD	11:30:00 AM	10.2694	10.2752			N/A
4/15/2019	GBPHKD	1:30:00 PM	10.266	10.2714			N/A
4/15/2019	GBPHKD	3:30:00 PM	10.2745	10.2789			N/A
4/15/2019	GBPHUF	9:30:00 AM	371.68	371.98			N/A
4/15/2019	GBPHUF	11:30:00 AM	371.6	372.04			N/A
4/15/2019	GBPHUF	1:30:00 PM	371.09	371.56			N/A
4/15/2019	GBPHUF	3:30:00 PM	370.9	371.34			N/A
4/15/2019	GBPJPY	9:30:00 AM	146.542	146.557			N/A
4/15/2019	GBPJPY	11:30:00 AM	146.654	146.681			N/A
4/15/2019	GBPJPY	1:30:00 PM	146.637	146.672			N/A
4/15/2019	GBPJPY	3:30:00 PM	146.83	146.839	1000	1000	N/A
4/15/2019	GBPJPY.fx	9:30:00 AM	146.561	146.539			N/A
4/15/2019	GBPJPY.fx	11:30:00 AM	146.672	146.661			N/A
4/15/2019	GBPJPY.fx	1:30:00 PM	146.656	146.653			N/A
4/15/2019	GBPJPY.fx	3:30:00 PM	146.849	146.824			N/A
4/15/2019	GBPMXN	9:30:00 AM	24.5711	24.5792			N/A
4/15/2019	GBPMXN	11:30:00 AM	24.5775	24.5923			N/A

4/15/2019	GBPMXN	1:30:00 PM	24.5818	24.5977			N/A
4/15/2019	GBPMXN	3:30:00 PM	24.6103	24.6223			N/A
4/15/2019	GBPNOK	9:30:00 AM	11.1117	11.1216			N/A
4/15/2019	GBPNOK	11:30:00 AM	11.1212	11.131			N/A
4/15/2019	GBPNOK	1:30:00 PM	11.1307	11.1422			N/A
4/15/2019	GBPNOK	3:30:00 PM	11.1265	11.136			N/A
4/15/2019	GBPNOK.fx	9:30:00 AM	11.11646	11.11678			N/A
4/15/2019	GBPNOK.fx	11:30:00 AM	11.12603	11.12586			N/A
4/15/2019	GBPNOK.fx	1:30:00 PM	11.13571	11.1372			N/A
4/15/2019	GBPNOK.fx	3:30:00 PM	11.13139	11.1311			N/A
4/15/2019	GBPNZD	9:30:00 AM	1.93292	1.93331			N/A
4/15/2019	GBPNZD	11:30:00 AM	1.93676	1.9374			N/A
4/15/2019	GBPNZD	1:30:00 PM	1.93696	1.93774			N/A
4/15/2019	GBPNZD	3:30:00 PM	1.93866	1.93869			N/A
4/15/2019	GBPNZD.fx	9:30:00 AM	1.93328	1.93294			N/A
4/15/2019	GBPNZD.fx	11:30:00 AM	1.93711	1.93704			N/A
4/15/2019	GBPNZD.fx	1:30:00 PM	1.93731	1.93736			N/A
4/15/2019	GBPNZD.fx	3:30:00 PM	1.93904	1.93843			N/A
4/15/2019	GBPPLN	9:30:00 AM	4.9521	4.9533			N/A
4/15/2019	GBPPLN	11:30:00 AM	4.9546	4.9562			N/A
4/15/2019	GBPPLN	1:30:00 PM	4.9507	4.9518			N/A
4/15/2019	GBPPLN	3:30:00 PM	4.953	4.9543			N/A
4/15/2019	GBPPLN.fx	9:30:00 AM	4.94998	4.95547			N/A
4/15/2019	GBPPLN.fx	11:30:00 AM	4.95246	4.95838			N/A
4/15/2019	GBPPLN.fx	1:30:00 PM	4.94851	4.95401			N/A
4/15/2019	GBPPLN.fx	3:30:00 PM	4.95096	4.95654			N/A
4/15/2019	GBPSEK	9:30:00 AM	12.1189	12.1206			N/A
4/15/2019	GBPSEK	11:30:00 AM	12.1202	12.1292			N/A
4/15/2019	GBPSEK	1:30:00 PM	12.1179	12.1262			N/A
4/15/2019	GBPSEK	3:30:00 PM	12.1227	12.1303			N/A
4/15/2019	GBPSEK.fx	9:30:00 AM	12.11553	12.12434			N/A
4/15/2019	GBPSEK.fx	11:30:00 AM	12.11666	12.13285			N/A
4/15/2019	GBPSEK.fx	1:30:00 PM	12.11431	12.13009			N/A
4/15/2019	GBPSEK.fx	3:30:00 PM	12.11908	12.13414			N/A

4/15/2019	GBPSGD	9:30:00 AM	1.7702	1.7707			N/A
4/15/2019	GBPSGD	11:30:00 AM	1.7718	1.7726			N/A
4/15/2019	GBPSGD	1:30:00 PM	1.7713	1.7722			N/A
4/15/2019	GBPSGD	3:30:00 PM	1.7731	1.7736			N/A
4/15/2019	GBPSGD.fx	9:30:00 AM	1.76841	1.77246			N/A
4/15/2019	GBPSGD.fx	11:30:00 AM	1.76996	1.77435			N/A
4/15/2019	GBPSGD.fx	1:30:00 PM	1.76951	1.77394			N/A
4/15/2019	GBPSGD.fx	3:30:00 PM	1.7713	1.77536			N/A
4/15/2019	GBPUSD	9:30:00 AM	1.3092	1.30901			N/A
4/15/2019	GBPUSD	11:30:00 AM	1.3104	1.31041			N/A
4/15/2019	GBPUSD	1:30:00 PM	1.31011	1.31017			N/A
4/15/2019	GBPUSD	3:30:00 PM	1.31125	1.31112			N/A
4/15/2019	GBPUSD.fx	9:30:00 AM	1.30925	1.30895			N/A
4/15/2019	GBPUSD.fx	11:30:00 AM	1.31045	1.31037			N/A
4/15/2019	GBPUSD.fx	1:30:00 PM	1.31016	1.31012			N/A
4/15/2019	GBPUSD.fx	3:30:00 PM	1.3113	1.31107			N/A
4/15/2019	GBPZAR	9:30:00 AM	18.2938	18.3097			N/A
4/15/2019	GBPZAR	11:30:00 AM	18.2508	18.274			N/A
4/15/2019	GBPZAR	1:30:00 PM	18.2954	18.3204			N/A
4/15/2019	GBPZAR	3:30:00 PM	18.3231	18.3481			N/A
4/15/2019	GBPZAR.fx	9:30:00 AM	18.301	18.3023			N/A
4/15/2019	GBPZAR.fx	11:30:00 AM	18.2581	18.2667			N/A
4/15/2019	GBPZAR.fx	1:30:00 PM	18.3027	18.313			N/A
4/15/2019	GBPZAR.fx	3:30:00 PM	18.3303	18.3411			N/A
4/15/2019	GOLD	9:30:00 AM	1287.66	1287.7			N/A
4/15/2019	GOLD	11:30:00 AM	1286.92	1287.18			N/A
4/15/2019	GOLD	1:30:00 PM	1285.77	1285.97			N/A
4/15/2019	GOLD	3:30:00 PM	1285.02	1285.05			N/A
4/15/2019	HKDJPY	9:30:00 AM	14.28	14.29			N/A
4/15/2019	HKDJPY	11:30:00 AM	14.28	14.29			N/A
4/15/2019	HKDJPY	1:30:00 PM	14.28	14.29			N/A
4/15/2019	HKDJPY	3:30:00 PM	14.28	14.29			N/A
4/15/2019	HKDJPY.fx	9:30:00 AM	14.278	14.283			N/A
4/15/2019	HKDJPY.fx	11:30:00 AM	14.271	14.277			N/A

4/15/2019	HKDJPY.fx	1:30:00 PM	14.274	14.281			N/A
4/15/2019	HKDJPY.fx	3:30:00 PM	14.281	14.288			N/A
4/15/2019	HUFJPY	9:30:00 AM	0.3941	0.3944			N/A
4/15/2019	HUFJPY	11:30:00 AM	0.3945	0.3948			N/A
4/15/2019	HUFJPY	1:30:00 PM	0.395	0.3953			N/A
4/15/2019	HUFJPY	3:30:00 PM	0.3956	0.3959			N/A
4/15/2019	JP225.i	9:30:00 AM	22164.74	22183.91			N/A
4/15/2019	JP225.i	11:30:00 AM					N/A
4/15/2019	JP225.i	1:30:00 PM	22159.74	22174.74			N/A
4/15/2019	JP225.i	3:30:00 PM	22140.58	22154.74			N/A
4/15/2019	MXNJPY	9:30:00 AM					N/A
4/15/2019	MXNJPY	11:30:00 AM	5.96	5.97			N/A
4/15/2019	MXNJPY	1:30:00 PM					N/A
4/15/2019	MXNJPY	3:30:00 PM	5.97	5.97			N/A
4/15/2019	NASDAQ.i	9:30:00 AM					N/A
4/15/2019	NASDAQ.i	11:30:00 AM					N/A
4/15/2019	NASDAQ.i	1:30:00 PM					N/A
4/15/2019	NASDAQ.i	3:30:00 PM					N/A
4/15/2019	NOKJPY	9:30:00 AM	13.17	13.2			N/A
4/15/2019	NOKJPY	11:30:00 AM	13.17	13.21			N/A
4/15/2019	NOKJPY	1:30:00 PM	13.16	13.19			N/A
4/15/2019	NOKJPY	3:30:00 PM					N/A
4/15/2019	NOKJPY.fx	9:30:00 AM	13.179	13.185			N/A
4/15/2019	NOKJPY.fx	11:30:00 AM	13.181	13.186			N/A
4/15/2019	NOKJPY.fx	1:30:00 PM	13.165	13.172			N/A
4/15/2019	NOKJPY.fx	3:30:00 PM	13.188	13.195			N/A
4/15/2019	NZDCAD	9:30:00 AM	0.90276	0.90344			N/A
4/15/2019	NZDCAD	11:30:00 AM	0.90179	0.90244			N/A
4/15/2019	NZDCAD	1:30:00 PM	0.90138	0.90207			N/A
4/15/2019	NZDCAD	3:30:00 PM	0.89958	0.89991			N/A
4/15/2019	NZDCAD.fx	9:30:00 AM	0.90309	0.90311			N/A
4/15/2019	NZDCAD.fx	11:30:00 AM	0.90213	0.90211			N/A
4/15/2019	NZDCAD.fx	1:30:00 PM	0.9017	0.90171			N/A
4/15/2019	NZDCAD.fx	3:30:00 PM	0.89989	0.89958			N/A

4/15/2019	NZDCHF	9:30:00 AM	0.67781	0.6785			N/A
4/15/2019	NZDCHF	11:30:00 AM	0.67758	0.67821			N/A
4/15/2019	NZDCHF	1:30:00 PM	0.67793	0.67864			N/A
4/15/2019	NZDCHF	3:30:00 PM	0.67792	0.67837			N/A
4/15/2019	NZDCHF.fx	9:30:00 AM	0.67814	0.67815			N/A
4/15/2019	NZDCHF.fx	11:30:00 AM	0.67792	0.67786			N/A
4/15/2019	NZDCHF.fx	1:30:00 PM	0.67826	0.67829			N/A
4/15/2019	NZDCHF.fx	3:30:00 PM	0.67823	0.67802			N/A
4/15/2019	NZDCZK	9:30:00 AM	15.312	15.321			N/A
4/15/2019	NZDCZK	11:30:00 AM	15.299	15.309			N/A
4/15/2019	NZDCZK	1:30:00 PM	15.304	15.315			N/A
4/15/2019	NZDCZK	3:30:00 PM	15.303	15.311			N/A
4/15/2019	NZDDKK	9:30:00 AM	4.466	4.47			N/A
4/15/2019	NZDDKK	11:30:00 AM					N/A
4/15/2019	NZDDKK	1:30:00 PM	4.461	4.464			N/A
4/15/2019	NZDDKK	3:30:00 PM	4.459	4.463			N/A
4/15/2019	NZDHKD	9:30:00 AM	5.3053	5.3082			N/A
4/15/2019	NZDHKD	11:30:00 AM	5.3012	5.3042			N/A
4/15/2019	NZDHKD	1:30:00 PM	5.2987	5.301			N/A
4/15/2019	NZDHKD	3:30:00 PM	5.2998	5.3011			N/A
4/15/2019	NZDHUF	9:30:00 AM	192.25	192.44			N/A
4/15/2019	NZDHUF	11:30:00 AM	191.8	192.07			N/A
4/15/2019	NZDHUF	1:30:00 PM	191.52	191.79			N/A
4/15/2019	NZDHUF	3:30:00 PM	191.3	191.54			N/A
4/15/2019	NZDJPY	9:30:00 AM	75.781	75.841			N/A
4/15/2019	NZDJPY	11:30:00 AM	75.688	75.751			N/A
4/15/2019	NZDJPY	1:30:00 PM	75.666	75.733			N/A
4/15/2019	NZDJPY	3:30:00 PM	75.712	75.767			N/A
4/15/2019	NZDJPY.fx	9:30:00 AM	75.816	75.808			N/A
4/15/2019	NZDJPY.fx	11:30:00 AM	75.72	75.718			N/A
4/15/2019	NZDJPY.fx	1:30:00 PM	75.698	75.7			N/A
4/15/2019	NZDJPY.fx	3:30:00 PM	75.744	75.734			N/A
4/15/2019	NZDMXN	9:30:00 AM	12.7085	12.7136			N/A
4/15/2019	NZDMXN	11:30:00 AM	12.688	12.6942			N/A

4/15/2019	NZDMXN	1:30:00 PM	12.6886	12.694			N/A
4/15/2019	NZDMXN	3:30:00 PM	12.6962	12.6969			N/A
4/15/2019	NZDNOK	9:30:00 AM	5.7463	5.7479			N/A
4/15/2019	NZDNOK	11:30:00 AM	5.7397	5.7436			N/A
4/15/2019	NZDNOK	1:30:00 PM	5.7445	5.7479			N/A
4/15/2019	NZDNOK	3:30:00 PM	5.7386	5.7413			N/A
4/15/2019	NZDPLN	9:30:00 AM	2.5598	2.5611			N/A
4/15/2019	NZDPLN	11:30:00 AM	2.5566	2.558			N/A
4/15/2019	NZDPLN	1:30:00 PM	2.5542	2.5553			N/A
4/15/2019	NZDPLN	3:30:00 PM	2.5541	2.5552			N/A
4/15/2019	NZDSEK	9:30:00 AM	6.2655	6.2684			N/A
4/15/2019	NZDSEK	11:30:00 AM	6.2538	6.2603			N/A
4/15/2019	NZDSEK	1:30:00 PM	6.2518	6.2575			N/A
4/15/2019	NZDSEK	3:30:00 PM	6.2506	6.2557			N/A
4/15/2019	NZDSGD	9:30:00 AM	0.9155	0.9161			N/A
4/15/2019	NZDSGD	11:30:00 AM	0.9146	0.9152			N/A
4/15/2019	NZDSGD	1:30:00 PM	0.9142	0.9149			N/A
4/15/2019	NZDSGD	3:30:00 PM	0.9144	0.9149			N/A
4/15/2019	NZDSGD.fx	9:30:00 AM	0.91554	0.91607			N/A
4/15/2019	NZDSGD.fx	11:30:00 AM	0.91459	0.91513			N/A
4/15/2019	NZDSGD.fx	1:30:00 PM	0.91421	0.9148			N/A
4/15/2019	NZDSGD.fx	3:30:00 PM	0.91445	0.91488			N/A
4/15/2019	NZDUSD	9:30:00 AM	0.67706	0.67717			N/A
4/15/2019	NZDUSD	11:30:00 AM	0.6764	0.67649			N/A
4/15/2019	NZDUSD	1:30:00 PM	0.67614	0.67626			N/A
4/15/2019	NZDUSD	3:30:00 PM	0.67636	0.6762			N/A
4/15/2019	NZDUSD.fx	9:30:00 AM	0.67713	0.67719			N/A
4/15/2019	NZDUSD.fx	11:30:00 AM	0.67648	0.67651			N/A
4/15/2019	NZDUSD.fx	1:30:00 PM	0.67621	0.67627			N/A
4/15/2019	NZDUSD.fx	3:30:00 PM	0.6764	0.67622			N/A
4/15/2019	NZDZAR	9:30:00 AM	9.457	9.4673			N/A
4/15/2019	NZDZAR	11:30:00 AM	9.4169	9.4316			N/A
4/15/2019	NZDZAR	1:30:00 PM	9.4377	9.4522			N/A
4/15/2019	NZDZAR	3:30:00 PM	9.4448	9.4598			N/A

4/15/2019	SEKJPY	9:30:00 AM	12.1	12.1			N/A
4/15/2019	SEKJPY	11:30:00 AM	12.1	12.11			N/A
4/15/2019	SEKJPY	1:30:00 PM	12.1	12.11			N/A
4/15/2019	SEKJPY	3:30:00 PM	12.11	12.12			N/A
4/15/2019	SEKJPY.fx	9:30:00 AM	12.085	12.096			N/A
4/15/2019	SEKJPY.fx	11:30:00 AM	12.088	12.105			N/A
4/15/2019	SEKJPY.fx	1:30:00 PM	12.09	12.106			N/A
4/15/2019	SEKJPY.fx	3:30:00 PM	12.1	12.117			N/A
4/15/2019	SGDJPY	9:30:00 AM	82.77	82.77			N/A
4/15/2019	SGDJPY	11:30:00 AM	82.76	82.76			N/A
4/15/2019	SGDJPY	1:30:00 PM	82.77	82.77			N/A
4/15/2019	SGDJPY	3:30:00 PM	82.77	82.8			N/A
4/15/2019	SILVER	9:30:00 AM	14.74	15.12			N/A
4/15/2019	SILVER	11:30:00 AM	14.74	15.12			N/A
4/15/2019	SILVER	1:30:00 PM	14.74	15.13			N/A
4/15/2019	SILVER	3:30:00 PM	14.71	15.09			N/A
4/15/2019	SPX500.i	9:30:00 AM	2908.06	2909.36			N/A
4/15/2019	SPX500.i	11:30:00 AM	2907.31	2908.61			N/A
4/15/2019	SPX500.i	1:30:00 PM	2910.31	2911.11			N/A
4/15/2019	SPX500.i	3:30:00 PM	2908.81	2909.11			N/A
4/15/2019	UK100.i	9:30:00 AM	7450.54	7451.79			N/A
4/15/2019	UK100.i	11:30:00 AM	7435.45	7434.04			N/A
4/15/2019	UK100.i	1:30:00 PM	7453.95	7454.12			N/A
4/15/2019	UK100.i	3:30:00 PM	7442.12	7442.45			N/A
4/15/2019	USDCAD	9:30:00 AM	1.3336	1.33376			N/A
4/15/2019	USDCAD	11:30:00 AM	1.33351	1.33346			N/A
4/15/2019	USDCAD	1:30:00 PM	1.3334	1.33346			N/A
4/15/2019	USDCAD	3:30:00 PM	1.33029	1.3303			N/A
4/15/2019	USDCAD.fx	9:30:00 AM	1.33363	1.33373			N/A
4/15/2019	USDCAD.fx	11:30:00 AM	1.33353	1.33342			N/A
4/15/2019	USDCAD.fx	1:30:00 PM	1.33342	1.33342			N/A
4/15/2019	USDCAD.fx	3:30:00 PM	1.33033	1.33025			N/A
4/15/2019	USDCHF	9:30:00 AM	1.00139	1.00144			N/A
4/15/2019	USDCHF	11:30:00 AM	1.00203	1.0021			N/A

4/15/2019	USDCHF	1:30:00 PM	1.00294	1.00306			N/A
4/15/2019	USDCHF	3:30:00 PM	1.00262	1.00266			N/A
4/15/2019	USDCHF.fx	9:30:00 AM	1.00143	1.00139			N/A
4/15/2019	USDCHF.fx	11:30:00 AM	1.00208	1.00203			N/A
4/15/2019	USDCHF.fx	1:30:00 PM	1.00299	1.003			N/A
4/15/2019	USDCHF.fx	3:30:00 PM	1.00265	1.0026			N/A
4/15/2019	USDCZK	9:30:00 AM	22.63	22.649			N/A
4/15/2019	USDCZK	11:30:00 AM	22.629	22.651			N/A
4/15/2019	USDCZK	1:30:00 PM	22.648	22.671			N/A
4/15/2019	USDCZK	3:30:00 PM	22.642	22.663			N/A
4/15/2019	USDCZK.fx	9:30:00 AM	22.6364	22.6435			N/A
4/15/2019	USDCZK.fx	11:30:00 AM	22.638	22.6418			N/A
4/15/2019	USDCZK.fx	1:30:00 PM	22.6566	22.6619			N/A
4/15/2019	USDCZK.fx	3:30:00 PM	22.6509	22.6541			N/A
4/15/2019	USDDKK	9:30:00 AM	6.5974	6.6013			N/A
4/15/2019	USDDKK	11:30:00 AM	6.5938	6.5973			N/A
4/15/2019	USDDKK	1:30:00 PM	6.5985	6.6025			N/A
4/15/2019	USDDKK	3:30:00 PM	6.5968	6.6001			N/A
4/15/2019	USDDKK.fx	9:30:00 AM	6.59797	6.59932			N/A
4/15/2019	USDDKK.fx	11:30:00 AM	6.59427	6.59518			N/A
4/15/2019	USDDKK.fx	1:30:00 PM	6.59904	6.60052			N/A
4/15/2019	USDDKK.fx	3:30:00 PM	6.59739	6.59807			N/A
4/15/2019	USDHKD	9:30:00 AM	7.8385	7.8386			N/A
4/15/2019	USDHKD	11:30:00 AM	7.8402	7.8403			N/A
4/15/2019	USDHKD	1:30:00 PM	7.8395	7.8394			N/A
4/15/2019	USDHKD	3:30:00 PM	7.8396	7.8397			N/A
4/15/2019	USDHKD.fx	9:30:00 AM	7.83849	7.83898			N/A
4/15/2019	USDHKD.fx	11:30:00 AM	7.84022	7.84072			N/A
4/15/2019	USDHKD.fx	1:30:00 PM	7.83943	7.84			N/A
4/15/2019	USDHKD.fx	3:30:00 PM	7.83948	7.83977			N/A
4/15/2019	USDHUF	9:30:00 AM	284.16	284.45			N/A
4/15/2019	USDHUF	11:30:00 AM	283.64	284.09			N/A
4/15/2019	USDHUF	1:30:00 PM	283.31	283.78			N/A
4/15/2019	USDHUF	3:30:00 PM	282.95	283.4			N/A

4/15/2019	USDHUF.fx	9:30:00 AM	284.317	284.258			N/A
4/15/2019	USDHUF.fx	11:30:00 AM	283.842	283.89			N/A
4/15/2019	USDHUF.fx	1:30:00 PM	283.514	283.585			N/A
4/15/2019	USDHUF.fx	3:30:00 PM	283.153	283.196			N/A
4/15/2019	USDINR	9:30:00 AM	64.23	74.2			N/A
4/15/2019	USDINR	11:30:00 AM	64.28	74.27			N/A
4/15/2019	USDINR	1:30:00 PM					N/A
4/15/2019	USDINR	3:30:00 PM					N/A
4/15/2019	USDJPY	9:30:00 AM	111.952	111.946			N/A
4/15/2019	USDJPY	11:30:00 AM	111.92	111.922			N/A
4/15/2019	USDJPY	1:30:00 PM	111.936	111.942			N/A
4/15/2019	USDJPY	3:30:00 PM	111.987	111.975			N/A
4/15/2019	USDJPY.fx	9:30:00 AM	111.958	111.939			N/A
4/15/2019	USDJPY.fx	11:30:00 AM	111.926	111.914			N/A
4/15/2019	USDJPY.fx	1:30:00 PM	111.943	111.935			N/A
4/15/2019	USDJPY.fx	3:30:00 PM	111.993	111.969			N/A
4/15/2019	USDMXN	9:30:00 AM	18.776	18.782			N/A
4/15/2019	USDMXN	11:30:00 AM	18.762	18.769			N/A
4/15/2019	USDMXN	1:30:00 PM	18.771	18.779			N/A
4/15/2019	USDMXN	3:30:00 PM	18.775	18.78			N/A
4/15/2019	USDMXN.fx	9:30:00 AM	18.7791	18.7783			N/A
4/15/2019	USDMXN.fx	11:30:00 AM	18.7645	18.7656			N/A
4/15/2019	USDMXN.fx	1:30:00 PM	18.7742	18.7749			N/A
4/15/2019	USDMXN.fx	3:30:00 PM	18.7796	18.7765			N/A
4/15/2019	USDNOK	9:30:00 AM	8.4884	8.4963			N/A
4/15/2019	USDNOK	11:30:00 AM	8.4869	8.4942			N/A
4/15/2019	USDNOK	1:30:00 PM	8.4965	8.5047			N/A
4/15/2019	USDNOK	3:30:00 PM	8.4862	8.4937			N/A
4/15/2019	USDNOK.fx	9:30:00 AM	8.49256	8.49189			N/A
4/15/2019	USDNOK.fx	11:30:00 AM	8.49088	8.48982			N/A
4/15/2019	USDNOK.fx	1:30:00 PM	8.50033	8.50023			N/A
4/15/2019	USDNOK.fx	3:30:00 PM	8.49008	8.48914			N/A
4/15/2019	USDPLN	9:30:00 AM	3.7829	3.7839			N/A
4/15/2019	USDPLN	11:30:00 AM	3.7809	3.7822			N/A

4/15/2019	USDPLN	1:30:00 PM	3.7788	3.7797			N/A
4/15/2019	USDPLN	3:30:00 PM	3.7775	3.7786			N/A
4/15/2019	USDPLN.fx	9:30:00 AM	3.78196	3.78466			N/A
4/15/2019	USDPLN.fx	11:30:00 AM	3.78006	3.78298			N/A
4/15/2019	USDPLN.fx	1:30:00 PM	3.77798	3.78051			N/A
4/15/2019	USDPLN.fx	3:30:00 PM	3.77658	3.77959			N/A
4/15/2019	USDRUB	9:30:00 AM					N/A
4/15/2019	USDRUB	11:30:00 AM	64.048	64.435			N/A
4/15/2019	USDRUB	1:30:00 PM	64.055	64.451			N/A
4/15/2019	USDRUB	3:30:00 PM	64.082	64.469			N/A
4/15/2019	USDSEK	9:30:00 AM	9.2587	9.2576			N/A
4/15/2019	USDSEK	11:30:00 AM	9.25	9.254			N/A
4/15/2019	USDSEK	1:30:00 PM	9.2506	9.2539			N/A
4/15/2019	USDSEK	3:30:00 PM	9.2466	9.2493			N/A
4/15/2019	USDSEK.fx	9:30:00 AM	9.26151	9.25581			N/A
4/15/2019	USDSEK.fx	11:30:00 AM	9.25253	9.25229			N/A
4/15/2019	USDSEK.fx	1:30:00 PM	9.25308	9.25194			N/A
4/15/2019	USDSEK.fx	3:30:00 PM	9.24903	9.2476			N/A
4/15/2019	USDSGD	9:30:00 AM	1.3523	1.3526			N/A
4/15/2019	USDSGD	11:30:00 AM	1.3522	1.3526			N/A
4/15/2019	USDSGD	1:30:00 PM	1.3521	1.3524			N/A
4/15/2019	USDSGD	3:30:00 PM	1.3523	1.3525			N/A
4/15/2019	USDSGD.fx	9:30:00 AM	1.35218	1.35261			N/A
4/15/2019	USDSGD.fx	11:30:00 AM	1.3521	1.35257			N/A
4/15/2019	USDSGD.fx	1:30:00 PM	1.35206	1.35257			N/A
4/15/2019	USDSGD.fx	3:30:00 PM	1.35225	1.35258			N/A
4/15/2019	USDZAR	9:30:00 AM	13.9774	13.9847			N/A
4/15/2019	USDZAR	11:30:00 AM	13.9293	13.943			N/A
4/15/2019	USDZAR	1:30:00 PM	13.9667	13.981			N/A
4/15/2019	USDZAR	3:30:00 PM	13.9779	13.9917			N/A
4/15/2019	USDZAR.fx	9:30:00 AM					N/A
4/15/2019	USDZAR.fx	11:30:00 AM					N/A
4/15/2019	USDZAR.fx	1:30:00 PM					N/A
4/15/2019	USDZAR.fx	3:30:00 PM					N/A

4/15/2019	XAUUSD	9:30:00 AM	1287.66	1287.7			N/A
4/15/2019	XAUUSD	11:30:00 AM	1286.91	1287.18			N/A
4/15/2019	XAUUSD	1:30:00 PM	1285.79	1285.97			N/A
4/15/2019	XAUUSD	3:30:00 PM	1285.02	1285.06			N/A
4/15/2019	ZARJPY	9:30:00 AM	7.99	8.01			N/A
4/15/2019	ZARJPY	11:30:00 AM	8.01	8.03			N/A
4/15/2019	ZARJPY	1:30:00 PM					N/A
4/15/2019	ZARJPY	3:30:00 PM	7.99	8.01			N/A
4/15/2019	ZARJPY.fx	9:30:00 AM	8.007	8.006			N/A
4/15/2019	ZARJPY.fx	11:30:00 AM	8.03	8.031			N/A
4/15/2019	ZARJPY.fx	1:30:00 PM	8.008	8.012			N/A
4/15/2019	ZARJPY.fx	3:30:00 PM	8.006	8.009			N/A
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4/16/2019	#Bitcoin	11:30:00 AM	5056.36	5131.21			N/A
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4/16/2019	AUDCAD	9:30:00 AM	0.95695	0.95764			N/A
4/16/2019	AUDCAD	11:30:00 AM	0.95649	0.9571			N/A
4/16/2019	AUDCAD	1:30:00 PM	0.95578	0.95637			N/A
4/16/2019	AUDCAD	3:30:00 PM	0.9583	0.95861			N/A
4/16/2019	AUDCAD.fx	9:30:00 AM	0.95727	0.9573			N/A
4/16/2019	AUDCAD.fx	11:30:00 AM	0.9568	0.95676			N/A
4/16/2019	AUDCAD.fx	1:30:00 PM	0.95612	0.95601			N/A
4/16/2019	AUDCAD.fx	3:30:00 PM	0.95863	0.95826			N/A
4/16/2019	AUDCHF	9:30:00 AM	0.71712	0.71782			N/A
4/16/2019	AUDCHF	11:30:00 AM	0.71657	0.71733			N/A
4/16/2019	AUDCHF	1:30:00 PM	0.71798	0.7187			N/A
4/16/2019	AUDCHF	3:30:00 PM	0.72083	0.72144			N/A
4/16/2019	AUDCHF.fx	9:30:00 AM	0.71746	0.71747			N/A
4/16/2019	AUDCHF.fx	11:30:00 AM	0.71696	0.71699			N/A
4/16/2019	AUDCHF.fx	1:30:00 PM	0.71833	0.71835			N/A
4/16/2019	AUDCHF.fx	3:30:00 PM	0.72117	0.72109			N/A
4/16/2019	AUDCZK	9:30:00 AM	16.187	16.205			N/A
4/16/2019	AUDCZK	11:30:00 AM	16.179	16.193			N/A
4/16/2019	AUDCZK	1:30:00 PM	16.197	16.213			N/A
4/16/2019	AUDCZK	3:30:00 PM	16.252	16.269			N/A

4/16/2019	AUDDKK	9:30:00 AM	4.7146	4.7193			N/A
4/16/2019	AUDDKK	11:30:00 AM	4.7112	4.7157			N/A
4/16/2019	AUDDKK	1:30:00 PM	4.7142	4.719			N/A
4/16/2019	AUDDKK	3:30:00 PM	4.7294	4.7338			N/A
4/16/2019	AUDHKD	9:30:00 AM	5.5992	5.6031			N/A
4/16/2019	AUDHKD	11:30:00 AM	5.5978	5.6018			N/A
4/16/2019	AUDHKD	1:30:00 PM	5.597	5.6004			N/A
4/16/2019	AUDHKD	3:30:00 PM	5.6178	5.6204			N/A
4/16/2019	AUDHUF	9:30:00 AM	202.13	202.37			N/A
4/16/2019	AUDHUF	11:30:00 AM	201.78	201.96			N/A
4/16/2019	AUDHUF	1:30:00 PM	202	202.24			N/A
4/16/2019	AUDHUF	3:30:00 PM	202.65	202.71			N/A
4/16/2019	AUDJPY	9:30:00 AM	79.968	80.027			N/A
4/16/2019	AUDJPY	11:30:00 AM	79.925	79.996			N/A
4/16/2019	AUDJPY	1:30:00 PM	79.877	79.943			N/A
4/16/2019	AUDJPY	3:30:00 PM	80.248	80.284			N/A
4/16/2019	AUDJPY.fx	9:30:00 AM	80.001	79.992			N/A
4/16/2019	AUDJPY.fx	11:30:00 AM	79.962	79.962			N/A
4/16/2019	AUDJPY.fx	1:30:00 PM	79.91	79.907			N/A
4/16/2019	AUDJPY.fx	3:30:00 PM	80.282	80.25			N/A
4/16/2019	AUDMXN	9:30:00 AM	13.4958	13.5052			N/A
4/16/2019	AUDMXN	11:30:00 AM	13.4775	13.4869			N/A
4/16/2019	AUDMXN	1:30:00 PM	13.4954	13.503			N/A
4/16/2019	AUDMXN	3:30:00 PM	13.5334	13.5377			N/A
4/16/2019	AUDNOK	9:30:00 AM	6.0668	6.0719			N/A
4/16/2019	AUDNOK	11:30:00 AM	6.0607	6.0662			N/A
4/16/2019	AUDNOK	1:30:00 PM	6.0654	6.0701			N/A
4/16/2019	AUDNOK	3:30:00 PM	6.0792	6.084			N/A
4/16/2019	AUDNOK.f	9:30:00 AM	6.0682	6.0703			N/A
4/16/2019	AUDNOK.f	11:30:00 AM	6.0623	6.0644			N/A
4/16/2019	AUDNOK.f	1:30:00 PM	6.067	6.0683			N/A
4/16/2019	AUDNOK.f	3:30:00 PM	6.0808	6.0825			N/A
4/16/2019	AUDNZD	9:30:00 AM	1.0572	1.05807			N/A
4/16/2019	AUDNZD	11:30:00 AM	1.0576	1.0585			N/A

4/16/2019	AUDNZD	1:30:00 PM	1.05769	1.05856			N/A
4/16/2019	AUDNZD	3:30:00 PM	1.06002	1.06081			N/A
4/16/2019	AUDNZD.fx	9:30:00 AM	1.05763	1.05763			N/A
4/16/2019	AUDNZD.fx	11:30:00 AM	1.05808	1.05806			N/A
4/16/2019	AUDNZD.fx	1:30:00 PM	1.05811	1.05812			N/A
4/16/2019	AUDNZD.fx	3:30:00 PM	1.06045	1.06038			N/A
4/16/2019	AUDPLN	9:30:00 AM	2.7007	2.7037			N/A
4/16/2019	AUDPLN	11:30:00 AM	2.6987	2.7018			N/A
4/16/2019	AUDPLN	1:30:00 PM	2.7003	2.7033			N/A
4/16/2019	AUDPLN	3:30:00 PM	2.7119	2.7143			N/A
4/16/2019	AUDSEK	9:30:00 AM	6.6222	6.6248			N/A
4/16/2019	AUDSEK	11:30:00 AM	6.6105	6.6139			N/A
4/16/2019	AUDSEK	1:30:00 PM	6.6157	6.619			N/A
4/16/2019	AUDSEK	3:30:00 PM	6.6344	6.6369			N/A
4/16/2019	AUDSEK.fx	9:30:00 AM	6.6176	6.6293			N/A
4/16/2019	AUDSEK.fx	11:30:00 AM	6.6064	6.6183			N/A
4/16/2019	AUDSEK.fx	1:30:00 PM	6.6111	6.6233			N/A
4/16/2019	AUDSEK.fx	3:30:00 PM	6.6298	6.6413			N/A
4/16/2019	AUDSGD	9:30:00 AM	0.967	0.9672			N/A
4/16/2019	AUDSGD	11:30:00 AM	0.9672	0.9674			N/A
4/16/2019	AUDSGD	1:30:00 PM	0.9673	0.9674			N/A
4/16/2019	AUDSGD	3:30:00 PM	0.9703	0.9704			N/A
4/16/2019	AUDSGD.fx	9:30:00 AM	0.96704	0.9671			N/A
4/16/2019	AUDSGD.fx	11:30:00 AM	0.96731	0.96739			N/A
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4/16/2019	AUDSGD.fx	3:30:00 PM	0.97039	0.97032			N/A
4/16/2019	AUDUSD	9:30:00 AM	0.71465	0.71477			N/A
4/16/2019	AUDUSD	11:30:00 AM	0.71438	0.71448	600	600	N/A
4/16/2019	AUDUSD	1:30:00 PM	0.7141	0.71417			N/A
4/16/2019	AUDUSD	3:30:00 PM	0.71671	0.71662			N/A
4/16/2019	AUDUSD.fx	9:30:00 AM	0.71471	0.71472			N/A
4/16/2019	AUDUSD.fx	11:30:00 AM	0.71442	0.71443			N/A
4/16/2019	AUDUSD.fx	1:30:00 PM	0.71416	0.71411			N/A
4/16/2019	AUDUSD.fx	3:30:00 PM	0.71676	0.71656			N/A

4/16/2019	AUDZAR	9:30:00 AM	10.0346	10.0476			N/A
4/16/2019	AUDZAR	11:30:00 AM	10.0181	10.0318			N/A
4/16/2019	AUDZAR	1:30:00 PM	10.0438	10.0528			N/A
4/16/2019	AUDZAR	3:30:00 PM	10.0673	10.0757			N/A
4/16/2019	AUS200.i	9:30:00 AM					N/A
4/16/2019	AUS200.i	11:30:00 AM	6292.47	6296.97			N/A
4/16/2019	AUS200.i	1:30:00 PM	6291.07	6294.97			N/A
4/16/2019	AUS200.i	3:30:00 PM	6293.37	6294.97			N/A
4/16/2019	BCHUSD	9:30:00 AM	315.17	326.88			N/A
4/16/2019	BCHUSD	11:30:00 AM	320.66	331.96			N/A
4/16/2019	BCHUSD	1:30:00 PM	318.72	329.19			N/A
4/16/2019	BCHUSD	3:30:00 PM	316.96	327.08			N/A
4/16/2019	CADCHF	9:30:00 AM	0.74912	0.74983			N/A
4/16/2019	CADCHF	11:30:00 AM	0.74898	0.74974			N/A
4/16/2019	CADCHF	1:30:00 PM	0.751	0.75164			N/A
4/16/2019	CADCHF	3:30:00 PM	0.75226	0.7526			N/A
4/16/2019	CADCHF.fx	9:30:00 AM	0.74946	0.74947			N/A
4/16/2019	CADCHF.fx	11:30:00 AM	0.74932	0.74939			N/A
4/16/2019	CADCHF.fx	1:30:00 PM	0.75133	0.75129			N/A
4/16/2019	CADCHF.fx	3:30:00 PM	0.75259	0.75225			N/A
4/16/2019	CADCZK	9:30:00 AM	16.913	16.929			N/A
4/16/2019	CADCZK	11:30:00 AM	16.914	16.93			N/A
4/16/2019	CADCZK	1:30:00 PM	16.946	16.961			N/A
4/16/2019	CADCZK	3:30:00 PM	16.962	16.973			N/A
4/16/2019	CADDKK	9:30:00 AM					N/A
4/16/2019	CADDKK	11:30:00 AM	4.924	4.928			N/A
4/16/2019	CADDKK	1:30:00 PM	4.932	4.935			N/A
4/16/2019	CADDKK	3:30:00 PM	4.935	4.937			N/A
4/16/2019	CADHKD	9:30:00 AM	5.8498	5.8537			N/A
4/16/2019	CADHKD	11:30:00 AM	5.8516	5.8554			N/A
4/16/2019	CADHKD	1:30:00 PM	5.8555	5.8584			N/A
4/16/2019	CADHKD	3:30:00 PM	5.8636	5.8639			N/A
4/16/2019	CADHUF	9:30:00 AM	211.21	211.37			N/A
4/16/2019	CADHUF	11:30:00 AM	210.97	211.09			N/A

4/16/2019	CADHUF	1:30:00 PM	211.37	211.51			N/A
4/16/2019	CADHUF	3:30:00 PM	211.53	211.47			N/A
4/16/2019	CADJPY	9:30:00 AM	83.535	83.595			N/A
4/16/2019	CADJPY	11:30:00 AM	83.543	83.61			N/A
4/16/2019	CADJPY	1:30:00 PM	83.551	83.605			N/A
4/16/2019	CADJPY	3:30:00 PM	83.748	83.759			N/A
4/16/2019	CADJPY.fx	9:30:00 AM	83.568	83.561			N/A
4/16/2019	CADJPY.fx	11:30:00 AM	83.576	83.576			N/A
4/16/2019	CADJPY.fx	1:30:00 PM	83.586	83.571			N/A
4/16/2019	CADJPY.fx	3:30:00 PM	83.78	83.725			N/A
4/16/2019	CADMXN	9:30:00 AM	14.0993	14.1098			N/A
4/16/2019	CADMXN	11:30:00 AM	14.0885	14.1004			N/A
4/16/2019	CADMXN	1:30:00 PM	14.1168	14.1266			N/A
4/16/2019	CADMXN	3:30:00 PM	14.1228	14.1266			N/A
4/16/2019	CADNOK	9:30:00 AM	6.3364	6.3409			N/A
4/16/2019	CADNOK	11:30:00 AM	6.3322	6.3353			N/A
4/16/2019	CADNOK	1:30:00 PM	6.3424	6.3465			N/A
4/16/2019	CADNOK	3:30:00 PM	6.341	6.3423			N/A
4/16/2019	CADPLN	9:30:00 AM	2.8221	2.8239			N/A
4/16/2019	CADPLN	11:30:00 AM	2.8205	2.8218			N/A
4/16/2019	CADPLN	1:30:00 PM	2.8246	2.8262			N/A
4/16/2019	CADPLN	3:30:00 PM	2.8287	2.8295			N/A
4/16/2019	CADSEK	9:30:00 AM	6.9158	6.9195			N/A
4/16/2019	CADSEK	11:30:00 AM	6.9071	6.9111			N/A
4/16/2019	CADSEK	1:30:00 PM	6.9188	6.9217			N/A
4/16/2019	CADSEK	3:30:00 PM	6.9205	6.9221			N/A
4/16/2019	CADSGD	9:30:00 AM	1.0099	1.01			N/A
4/16/2019	CADSGD	11:30:00 AM	1.0105	1.0108			N/A
4/16/2019	CADSGD	1:30:00 PM	1.0111	1.0114			N/A
4/16/2019	CADSGD	3:30:00 PM	1.012	1.0124			N/A
4/16/2019	CADZAR	9:30:00 AM	10.4832	10.498			N/A
4/16/2019	CADZAR	11:30:00 AM	10.472	10.4884			N/A
4/16/2019	CADZAR	1:30:00 PM	10.506	10.5165			N/A
4/16/2019	CADZAR	3:30:00 PM	10.5059	10.514			N/A

4/16/2019	CHFCZK	9:30:00 AM	22.57	22.585			N/A
4/16/2019	CHFCZK	11:30:00 AM	22.575	22.59			N/A
4/16/2019	CHFCZK	1:30:00 PM	22.557	22.573			N/A
4/16/2019	CHFCZK	3:30:00 PM	22.548	22.561			N/A
4/16/2019	CHFDKK	9:30:00 AM	6.576	6.579			N/A
4/16/2019	CHFDKK	11:30:00 AM	6.575	6.574			N/A
4/16/2019	CHFDKK	1:30:00 PM	6.566	6.569			N/A
4/16/2019	CHFDKK	3:30:00 PM	6.564	6.567			N/A
4/16/2019	CHFDKK.fx	9:30:00 AM	6.5743	6.5806			N/A
4/16/2019	CHFDKK.fx	11:30:00 AM	6.5738	6.5802			N/A
4/16/2019	CHFDKK.fx	1:30:00 PM	6.5657	6.5719			N/A
4/16/2019	CHFDKK.fx	3:30:00 PM	6.5622	6.5672			N/A
4/16/2019	CHFHKD	9:30:00 AM	7.8063	7.8099			N/A
4/16/2019	CHFHKD	11:30:00 AM	7.8099	7.8134			N/A
4/16/2019	CHFHKD	1:30:00 PM	7.7938	7.7972			N/A
4/16/2019	CHFHKD	3:30:00 PM	7.7925	7.7954			N/A
4/16/2019	CHFHUF	9:30:00 AM	281.74	282.12			N/A
4/16/2019	CHFHUF	11:30:00 AM	281.47	281.79			N/A
4/16/2019	CHFHUF	1:30:00 PM	281.24	281.63			N/A
4/16/2019	CHFHUF	3:30:00 PM	281.07	281.19			N/A
4/16/2019	CHFJPY	9:30:00 AM	111.472	111.524			N/A
4/16/2019	CHFJPY	11:30:00 AM	111.497	111.566			N/A
4/16/2019	CHFJPY	1:30:00 PM	111.211	111.272			N/A
4/16/2019	CHFJPY	3:30:00 PM	111.283	111.324			N/A
4/16/2019	CHFJPY.fx	9:30:00 AM	111.506	111.49			N/A
4/16/2019	CHFJPY.fx	11:30:00 AM	111.53	111.532			N/A
4/16/2019	CHFJPY.fx	1:30:00 PM	111.243	111.237			N/A
4/16/2019	CHFJPY.fx	3:30:00 PM	111.316	111.289			N/A
4/16/2019	CHFMXN	9:30:00 AM	18.8126	18.828			N/A
4/16/2019	CHFMXN	11:30:00 AM	18.8022	18.8183			N/A
4/16/2019	CHFMXN	1:30:00 PM	18.7912	18.8037			N/A
4/16/2019	CHFMXN	3:30:00 PM	18.7707	18.7784			N/A
4/16/2019	CHFNOK	9:30:00 AM	8.4586	8.4663			N/A
4/16/2019	CHFNOK	11:30:00 AM	8.4563	8.4598			N/A

4/16/2019	CHFNOK	1:30:00 PM	8.4465	8.454			N/A
4/16/2019	CHFNOK	3:30:00 PM	8.4329	8.4397			N/A
4/16/2019	CHFNOK.fx	9:30:00 AM	8.46192	8.46296			N/A
4/16/2019	CHFNOK.fx	11:30:00 AM	8.45964	8.46118			N/A
4/16/2019	CHFNOK.fx	1:30:00 PM	8.44985	8.45047			N/A
4/16/2019	CHFNOK.fx	3:30:00 PM	8.4363	8.43636			N/A
4/16/2019	CHFPLN	9:30:00 AM	3.765	3.7678			N/A
4/16/2019	CHFPLN	11:30:00 AM	3.7646	3.7678			N/A
4/16/2019	CHFPLN	1:30:00 PM	3.7599	3.7625			N/A
4/16/2019	CHFPLN	3:30:00 PM	3.7614	3.7628			N/A
4/16/2019	CHFPLN.fx	9:30:00 AM	3.76265	3.77023			N/A
4/16/2019	CHFPLN.fx	11:30:00 AM	3.76199	3.77015			N/A
4/16/2019	CHFPLN.fx	1:30:00 PM	3.75756	3.76483			N/A
4/16/2019	CHFPLN.fx	3:30:00 PM	3.75896	3.76505			N/A
4/16/2019	CHFSEK	9:30:00 AM	9.2282	9.2323			N/A
4/16/2019	CHFSEK	11:30:00 AM	9.2181	9.2227			N/A
4/16/2019	CHFSEK	1:30:00 PM	9.2087	9.2132			N/A
4/16/2019	CHFSEK	3:30:00 PM	9.1979	9.2014			N/A
4/16/2019	CHFSGD	9:30:00 AM	1.3477	1.3481			N/A
4/16/2019	CHFSGD	11:30:00 AM	1.349	1.3495			N/A
4/16/2019	CHFSGD	1:30:00 PM	1.3465	1.3468			N/A
4/16/2019	CHFSGD	3:30:00 PM	1.3454	1.3458			N/A
4/16/2019	CHFSGD.fx	9:30:00 AM	1.34781	1.34795			N/A
4/16/2019	CHFSGD.fx	11:30:00 AM	1.34921	1.34932			N/A
4/16/2019	CHFSGD.fx	1:30:00 PM	1.34671	1.3468			N/A
4/16/2019	CHFSGD.fx	3:30:00 PM	1.34555	1.34561			N/A
4/16/2019	CHFZAR	9:30:00 AM	13.992	14.0039			N/A
4/16/2019	CHFZAR	11:30:00 AM	13.9803	13.9937			N/A
4/16/2019	CHFZAR	1:30:00 PM	13.9903	13.9944			N/A
4/16/2019	CHFZAR	3:30:00 PM	13.9678	13.971			N/A
4/16/2019	CZKJPY	9:30:00 AM					N/A
4/16/2019	CZKJPY	11:30:00 AM	4.939	4.942			N/A
4/16/2019	CZKJPY	1:30:00 PM	4.93	4.933			N/A
4/16/2019	CZKJPY	3:30:00 PM	4.934	4.937			N/A

4/16/2019	DAX30.i	9:30:00 AM	12054.86	12049.86			N/A
4/16/2019	DAX30.i	11:30:00 AM	12121.61	12120.36			N/A
4/16/2019	DAX30.i	1:30:00 PM	12108.61	12107.11			N/A
4/16/2019	DAX30.i	3:30:00 PM	12118.11	12116.11			N/A
4/16/2019	DJ30.i	9:30:00 AM					N/A
4/16/2019	DJ30.i	11:30:00 AM					N/A
4/16/2019	DJ30.i	1:30:00 PM					N/A
4/16/2019	DJ30.i	3:30:00 PM					N/A
4/16/2019	DKKJPY	9:30:00 AM					N/A
4/16/2019	DKKJPY	11:30:00 AM					N/A
4/16/2019	DKKJPY	1:30:00 PM	16.95	16.96			N/A
4/16/2019	DKKJPY	3:30:00 PM	16.97	16.98			N/A
4/16/2019	EURAUD	9:30:00 AM	1.58101	1.58135	1000	1000	N/A
4/16/2019	EURAUD	11:30:00 AM	1.58222	1.58259			N/A
4/16/2019	EURAUD	1:30:00 PM	1.58114	1.58157			N/A
4/16/2019	EURAUD	3:30:00 PM	1.57603	1.57636			N/A
4/16/2019	EURAUD.fx	9:30:00 AM	1.58121	1.58112			N/A
4/16/2019	EURAUD.fx	11:30:00 AM	1.58241	1.58238			N/A
4/16/2019	EURAUD.fx	1:30:00 PM	1.58135	1.58135			N/A
4/16/2019	EURAUD.fx	3:30:00 PM	1.57625	1.57615			N/A
4/16/2019	EURCAD	9:30:00 AM	1.51383	1.51463			N/A
4/16/2019	EURCAD	11:30:00 AM	1.51414	1.51501			N/A
4/16/2019	EURCAD	1:30:00 PM	1.51217	1.51284			N/A
4/16/2019	EURCAD	3:30:00 PM	1.5112	1.51145			N/A
4/16/2019	EURCAD.fx	9:30:00 AM	1.51424	1.51421			N/A
4/16/2019	EURCAD.fx	11:30:00 AM	1.51454	1.5146			N/A
4/16/2019	EURCAD.fx	1:30:00 PM	1.51257	1.51243			N/A
4/16/2019	EURCAD.fx	3:30:00 PM	1.51161	1.51104			N/A
4/16/2019	EURCHF	9:30:00 AM	1.13482	1.13497			N/A
4/16/2019	EURCHF	11:30:00 AM	1.13488	1.13505			N/A
4/16/2019	EURCHF	1:30:00 PM	1.1363	1.13641			N/A
4/16/2019	EURCHF	3:30:00 PM	1.13715	1.13709			N/A
4/16/2019	EURCHF.fx	9:30:00 AM	1.13487	1.13491			N/A
4/16/2019	EURCHF.fx	11:30:00 AM	1.13492	1.135			N/A

4/16/2019	EURCHF.fx	1:30:00 PM	1.13637	1.13634			N/A
4/16/2019	EURCHF.fx	3:30:00 PM	1.1372	1.13703			N/A
4/16/2019	EURCZK	9:30:00 AM	25.601	25.64			N/A
4/16/2019	EURCZK	11:30:00 AM	25.609	25.645			N/A
4/16/2019	EURCZK	1:30:00 PM	25.62	25.659			N/A
4/16/2019	EURCZK	3:30:00 PM	25.624	25.661			N/A
4/16/2019	EURDKK	9:30:00 AM	7.4594	7.4607			N/A
4/16/2019	EURDKK	11:30:00 AM	7.4626	7.4639			N/A
4/16/2019	EURDKK	1:30:00 PM	7.4591	7.4603			N/A
4/16/2019	EURDKK	3:30:00 PM	7.4631	7.4644			N/A
4/16/2019	EURGBP	9:30:00 AM	0.86354	0.86359			N/A
4/16/2019	EURGBP	11:30:00 AM	0.86419	0.8641			N/A
4/16/2019	EURGBP	1:30:00 PM	0.86356	0.86366			N/A
4/16/2019	EURGBP	3:30:00 PM	0.86436	0.8642			N/A
4/16/2019	EURGBP.fx	9:30:00 AM	0.86356	0.86354			N/A
4/16/2019	EURGBP.fx	11:30:00 AM	0.86422	0.86407			N/A
4/16/2019	EURGBP.fx	1:30:00 PM	0.86359	0.86363			N/A
4/16/2019	EURGBP.fx	3:30:00 PM	0.8644	0.86415			N/A
4/16/2019	EURHKD	9:30:00 AM	8.8598	8.8646			N/A
4/16/2019	EURHKD	11:30:00 AM	8.8644	8.8699			N/A
4/16/2019	EURHKD	1:30:00 PM	8.8566	8.861			N/A
4/16/2019	EURHKD	3:30:00 PM	8.8619	8.864			N/A
4/16/2019	EURHKD.fx	9:30:00 AM	8.86236	8.86202			N/A
4/16/2019	EURHKD.fx	11:30:00 AM	8.8669	8.86735			N/A
4/16/2019	EURHKD.fx	1:30:00 PM	8.85911	8.85844			N/A
4/16/2019	EURHKD.fx	3:30:00 PM	8.86447	8.86159			N/A
4/16/2019	EURHUF	9:30:00 AM	319.68	320.4			N/A
4/16/2019	EURHUF	11:30:00 AM	319.46	320.16			N/A
4/16/2019	EURHUF	1:30:00 PM	319.53	320.19			N/A
4/16/2019	EURHUF	3:30:00 PM	319.55	320.15			N/A
4/16/2019	EURHUF.fx	9:30:00 AM	319.941	320.13			N/A
4/16/2019	EURHUF.fx	11:30:00 AM	319.728	319.881			N/A
4/16/2019	EURHUF.fx	1:30:00 PM	319.801	320			N/A
4/16/2019	EURHUF.fx	3:30:00 PM	319.831	319.856			N/A

4/16/2019	EURJPY	9:30:00 AM	126.547	126.534			N/A
4/16/2019	EURJPY	11:30:00 AM	126.58	126.586	1000	1000	N/A
4/16/2019	EURJPY	1:30:00 PM	126.415	126.409			N/A
4/16/2019	EURJPY	3:30:00 PM	126.591	126.546			N/A
4/16/2019	EURJPY.fx	9:30:00 AM	126.547	126.529			N/A
4/16/2019	EURJPY.fx	11:30:00 AM	126.582	126.583			N/A
4/16/2019	EURJPY.fx	1:30:00 PM	126.417	126.404			N/A
4/16/2019	EURJPY.fx	3:30:00 PM	126.593	126.543			N/A
4/16/2019	EURMXN	9:30:00 AM	21.3651	21.3817			N/A
4/16/2019	EURMXN	11:30:00 AM	21.3534	21.3738			N/A
4/16/2019	EURMXN	1:30:00 PM	21.3665	21.3816			N/A
4/16/2019	EURMXN	3:30:00 PM	21.3567	21.3687			N/A
4/16/2019	EURMXN.fx	9:30:00 AM	21.3735	21.3732			N/A
4/16/2019	EURMXN.fx	11:30:00 AM	21.3619	21.3653			N/A
4/16/2019	EURMXN.fx	1:30:00 PM	21.3749	21.3732			N/A
4/16/2019	EURMXN.fx	3:30:00 PM	21.3652	21.3602			N/A
4/16/2019	EURNOK	9:30:00 AM	9.5974	9.6091			N/A
4/16/2019	EURNOK	11:30:00 AM	9.5955	9.6081			N/A
4/16/2019	EURNOK	1:30:00 PM	9.5961	9.6078			N/A
4/16/2019	EURNOK	3:30:00 PM	9.5869	9.5989			N/A
4/16/2019	EURNOK.fx	9:30:00 AM	9.60281	9.60368			N/A
4/16/2019	EURNOK.fx	11:30:00 AM	9.60092	9.6026			N/A
4/16/2019	EURNOK.fx	1:30:00 PM	9.60149	9.60248			N/A
4/16/2019	EURNOK.fx	3:30:00 PM	9.59228	9.59356			N/A
4/16/2019	EURNZD	9:30:00 AM	1.67262	1.67328			N/A
4/16/2019	EURNZD	11:30:00 AM	1.6745	1.67539			N/A
4/16/2019	EURNZD	1:30:00 PM	1.67352	1.67432			N/A
4/16/2019	EURNZD	3:30:00 PM	1.67183	1.67241			N/A
4/16/2019	EURNZD.fx	9:30:00 AM	1.67303	1.67287			N/A
4/16/2019	EURNZD.fx	11:30:00 AM	1.67493	1.67496			N/A
4/16/2019	EURNZD.fx	1:30:00 PM	1.67394	1.67388			N/A
4/16/2019	EURNZD.fx	3:30:00 PM	1.67225	1.67198			N/A
4/16/2019	EURPLN	9:30:00 AM	4.2729	4.2758			N/A
4/16/2019	EURPLN	11:30:00 AM	4.2728	4.276			N/A

4/16/2019	EURPLN	1:30:00 PM	4.2726	4.2755			N/A
4/16/2019	EURPLN	3:30:00 PM	4.277	4.279			N/A
4/16/2019	EURPLN.fx	9:30:00 AM	4.27207	4.27666			N/A
4/16/2019	EURPLN.fx	11:30:00 AM	4.27198	4.27682			N/A
4/16/2019	EURPLN.fx	1:30:00 PM	4.27187	4.27612			N/A
4/16/2019	EURPLN.fx	3:30:00 PM	4.27608	4.27952			N/A
4/16/2019	EURRUB	9:30:00 AM					N/A
4/16/2019	EURRUB	11:30:00 AM	72.314	72.754			N/A
4/16/2019	EURRUB	1:30:00 PM	72.374	72.787			N/A
4/16/2019	EURRUB	3:30:00 PM	72.369	72.803			N/A
4/16/2019	EURSEK	9:30:00 AM	10.4748	10.4788			N/A
4/16/2019	EURSEK	11:30:00 AM	10.4648	10.4699			N/A
4/16/2019	EURSEK	1:30:00 PM	10.4658	10.4707			N/A
4/16/2019	EURSEK	3:30:00 PM	10.4609	10.4654			N/A
4/16/2019	EURSEK.fx	9:30:00 AM	10.47647	10.47721			N/A
4/16/2019	EURSEK.fx	11:30:00 AM	10.46642	10.46818			N/A
4/16/2019	EURSEK.fx	1:30:00 PM	10.46747	10.46898			N/A
4/16/2019	EURSEK.fx	3:30:00 PM	10.4627	10.46345			N/A
4/16/2019	EURSGD	9:30:00 AM	1.5293	1.5301			N/A
4/16/2019	EURSGD	11:30:00 AM	1.531	1.5311			N/A
4/16/2019	EURSGD	1:30:00 PM	1.5301	1.5308			N/A
4/16/2019	EURSGD	3:30:00 PM	1.5299	1.5304			N/A
4/16/2019	EURSGD.fx	9:30:00 AM	1.52974	1.52969			N/A
4/16/2019	EURSGD.fx	11:30:00 AM	1.53135	1.53139			N/A
4/16/2019	EURSGD.fx	1:30:00 PM	1.53043	1.53036			N/A
4/16/2019	EURSGD.fx	3:30:00 PM	1.53021	1.52998			N/A
4/16/2019	EURUSD	9:30:00 AM	1.13033	1.13039			N/A
4/16/2019	EURUSD	11:30:00 AM	1.13071	1.13086			N/A
4/16/2019	EURUSD	1:30:00 PM	1.12954	1.12954			N/A
4/16/2019	EURUSD	3:30:00 PM	1.13008	1.1298			N/A
4/16/2019	EURUSD.fx	9:30:00 AM	1.13054	1.13048			N/A
4/16/2019	EURUSD.fx	11:30:00 AM	1.13091	1.13096			N/A
4/16/2019	EURUSD.fx	1:30:00 PM	1.12974	1.12963			N/A
4/16/2019	EURUSD.fx	3:30:00 PM	1.13028	1.1299			N/A

4/16/2019	EURZAR	9:30:00 AM	15.883	15.8991			N/A
4/16/2019	EURZAR	11:30:00 AM	15.8726	15.8917			N/A
4/16/2019	EURZAR	1:30:00 PM	15.9013	15.9086			N/A
4/16/2019	EURZAR	3:30:00 PM	15.8853	15.8982			N/A
4/16/2019	EURZAR.fx	9:30:00 AM	15.88228	15.89934			N/A
4/16/2019	EURZAR.fx	11:30:00 AM	15.87176	15.89191			N/A
4/16/2019	EURZAR.fx	1:30:00 PM	15.90051	15.90915			N/A
4/16/2019	EURZAR.fx	3:30:00 PM	15.88458	15.8989			N/A
4/16/2019	GBPAUD	9:30:00 AM	1.8314	1.83201			N/A
4/16/2019	GBPAUD	11:30:00 AM	1.83176	1.83216			N/A
4/16/2019	GBPAUD	1:30:00 PM	1.83143	1.83214			N/A
4/16/2019	GBPAUD	3:30:00 PM	1.82429	1.82461			N/A
4/16/2019	GBPAUD.fx	9:30:00 AM	1.83178	1.83161			N/A
4/16/2019	GBPAUD.fx	11:30:00 AM	1.83212	1.83181			N/A
4/16/2019	GBPAUD.fx	1:30:00 PM	1.83181	1.83175			N/A
4/16/2019	GBPAUD.fx	3:30:00 PM	1.82467	1.82422			N/A
4/16/2019	GBPCAD	9:30:00 AM	1.75317	1.75385			N/A
4/16/2019	GBPCAD	11:30:00 AM	1.75253	1.75287			N/A
4/16/2019	GBPCAD	1:30:00 PM	1.75108	1.75165			N/A
4/16/2019	GBPCAD	3:30:00 PM	1.74871	1.74846			N/A
4/16/2019	GBPCAD.fx	9:30:00 AM	1.75356	1.75349			N/A
4/16/2019	GBPCAD.fx	11:30:00 AM	1.75288	1.75251			N/A
4/16/2019	GBPCAD.fx	1:30:00 PM	1.75144	1.7513			N/A
4/16/2019	GBPCAD.fx	3:30:00 PM	1.74908	1.74809			N/A
4/16/2019	GBPCHF	9:30:00 AM	1.31403	1.31441			N/A
4/16/2019	GBPCHF	11:30:00 AM	1.31333	1.31349			N/A
4/16/2019	GBPCHF	1:30:00 PM	1.31562	1.31606			N/A
4/16/2019	GBPCHF	3:30:00 PM	1.31556	1.31582			N/A
4/16/2019	GBPCHF.fx	9:30:00 AM	1.3142	1.31421			N/A
4/16/2019	GBPCHF.fx	11:30:00 AM	1.31349	1.31331			N/A
4/16/2019	GBPCHF.fx	1:30:00 PM	1.3158	1.31585			N/A
4/16/2019	GBPCHF.fx	3:30:00 PM	1.31575	1.31562			N/A
4/16/2019	GBPCZK	9:30:00 AM	29.658	29.676			N/A
4/16/2019	GBPCZK	11:30:00 AM	29.644	29.661			N/A

4/16/2019	GBPCZK	1:30:00 PM	29.676	29.698			N/A
4/16/2019	GBPCZK	3:30:00 PM	29.662	29.673			N/A
4/16/2019	GBPDKK	9:30:00 AM	8.638	8.649			N/A
4/16/2019	GBPDKK	11:30:00 AM	8.632	8.642			N/A
4/16/2019	GBPDKK	1:30:00 PM	8.637	8.648			N/A
4/16/2019	GBPDKK	3:30:00 PM	8.631	8.64			N/A
4/16/2019	GBPDKK.fx	9:30:00 AM	8.6362	8.6487			N/A
4/16/2019	GBPDKK.fx	11:30:00 AM	8.6308	8.6419			N/A
4/16/2019	GBPDKK.fx	1:30:00 PM	8.6351	8.6481			N/A
4/16/2019	GBPDKK.fx	3:30:00 PM	8.6302	8.6404			N/A
4/16/2019	GBPHKD	9:30:00 AM	10.2583	10.2625			N/A
4/16/2019	GBPHKD	11:30:00 AM	10.2562	10.2605			N/A
4/16/2019	GBPHKD	1:30:00 PM	10.2538	10.2579			N/A
4/16/2019	GBPHKD	3:30:00 PM	10.2488	10.2542			N/A
4/16/2019	GBPHUF	9:30:00 AM	370.23	370.68			N/A
4/16/2019	GBPHUF	11:30:00 AM	369.59	369.98			N/A
4/16/2019	GBPHUF	1:30:00 PM	370.02	370.5			N/A
4/16/2019	GBPHUF	3:30:00 PM	369.77	369.85			N/A
4/16/2019	GBPJPY	9:30:00 AM	146.531	146.549			N/A
4/16/2019	GBPJPY	11:30:00 AM	146.478	146.489			N/A
4/16/2019	GBPJPY	1:30:00 PM	146.363	146.386			N/A
4/16/2019	GBPJPY	3:30:00 PM	146.431	146.451			N/A
4/16/2019	GBPJPY.fx	9:30:00 AM	146.546	146.529			N/A
4/16/2019	GBPJPY.fx	11:30:00 AM	146.496	146.473			N/A
4/16/2019	GBPJPY.fx	1:30:00 PM	146.381	146.368			N/A
4/16/2019	GBPJPY.fx	3:30:00 PM	146.449	146.431			N/A
4/16/2019	GBPMXN	9:30:00 AM	24.7253	24.7352			N/A
4/16/2019	GBPMXN	11:30:00 AM	24.6933	24.7071			N/A
4/16/2019	GBPMXN	1:30:00 PM	24.7239	24.7346			N/A
4/16/2019	GBPMXN	3:30:00 PM	24.6959	24.6984			N/A
4/16/2019	GBPNOK	9:30:00 AM	11.1134	11.1247			N/A
4/16/2019	GBPNOK	11:30:00 AM	11.1052	11.1141			N/A
4/16/2019	GBPNOK	1:30:00 PM	11.1112	11.1219			N/A
4/16/2019	GBPNOK	3:30:00 PM	11.0932	11.1014			N/A

4/16/2019	GBPNOK.fx	9:30:00 AM	11.11809	11.12001			N/A
4/16/2019	GBPNOK.fx	11:30:00 AM	11.11002	11.10945			N/A
4/16/2019	GBPNOK.fx	1:30:00 PM	11.11591	11.11705			N/A
4/16/2019	GBPNOK.fx	3:30:00 PM	11.09798	11.09661			N/A
4/16/2019	GBPNZD	9:30:00 AM	1.93701	1.93762			N/A
4/16/2019	GBPNZD	11:30:00 AM	1.93809	1.93843			N/A
4/16/2019	GBPNZD	1:30:00 PM	1.93798	1.93864			N/A
4/16/2019	GBPNZD	3:30:00 PM	1.93455	1.93494			N/A
4/16/2019	GBPNZD.fx	9:30:00 AM	1.93737	1.93724			N/A
4/16/2019	GBPNZD.fx	11:30:00 AM	1.93844	1.93805			N/A
4/16/2019	GBPNZD.fx	1:30:00 PM	1.93833	1.93825			N/A
4/16/2019	GBPNZD.fx	3:30:00 PM	1.93497	1.93455			N/A
4/16/2019	GBPPLN	9:30:00 AM	4.9492	4.9508			N/A
4/16/2019	GBPPLN	11:30:00 AM	4.946	4.9467			N/A
4/16/2019	GBPPLN	1:30:00 PM	4.9484	4.9496			N/A
4/16/2019	GBPPLN	3:30:00 PM	4.9502	4.9491			N/A
4/16/2019	GBPPLN.fx	9:30:00 AM	4.94694	4.95309			N/A
4/16/2019	GBPPLN.fx	11:30:00 AM	4.94369	4.94895			N/A
4/16/2019	GBPPLN.fx	1:30:00 PM	4.94618	4.95182			N/A
4/16/2019	GBPPLN.fx	3:30:00 PM	4.94796	4.95124			N/A
4/16/2019	GBPSEK	9:30:00 AM	12.1279	12.1359			N/A
4/16/2019	GBPSEK	11:30:00 AM	12.1095	12.116			N/A
4/16/2019	GBPSEK	1:30:00 PM	12.1169	12.1263			N/A
4/16/2019	GBPSEK	3:30:00 PM	12.103	12.1086			N/A
4/16/2019	GBPSEK.fx	9:30:00 AM	12.12438	12.13986			N/A
4/16/2019	GBPSEK.fx	11:30:00 AM	12.10574	12.11959			N/A
4/16/2019	GBPSEK.fx	1:30:00 PM	12.11329	12.13006			N/A
4/16/2019	GBPSEK.fx	3:30:00 PM	12.09954	12.1118			N/A
4/16/2019	GBPSGD	9:30:00 AM	1.7712	1.7719			N/A
4/16/2019	GBPSGD	11:30:00 AM	1.772	1.7723			N/A
4/16/2019	GBPSGD	1:30:00 PM	1.7719	1.7724			N/A
4/16/2019	GBPSGD	3:30:00 PM	1.7701	1.7707			N/A
4/16/2019	GBPSGD.fx	9:30:00 AM	1.76944	1.77355			N/A
4/16/2019	GBPSGD.fx	11:30:00 AM	1.77013	1.77412			N/A

4/16/2019	GBPSGD.fx	1:30:00 PM	1.77	1.77422			N/A
4/16/2019	GBPSGD.fx	3:30:00 PM	1.76825	1.77253			N/A
4/16/2019	GBPUSD	9:30:00 AM	1.30924	1.30903			N/A
4/16/2019	GBPUSD	11:30:00 AM	1.30885	1.30862			N/A
4/16/2019	GBPUSD	1:30:00 PM	1.30816	1.30806			N/A
4/16/2019	GBPUSD	3:30:00 PM	1.30755	1.30754			N/A
4/16/2019	GBPUSD.fx	9:30:00 AM	1.30928	1.30898			N/A
4/16/2019	GBPUSD.fx	11:30:00 AM	1.30889	1.30859			N/A
4/16/2019	GBPUSD.fx	1:30:00 PM	1.30821	1.30802			N/A
4/16/2019	GBPUSD.fx	3:30:00 PM	1.3076	1.30749			N/A
4/16/2019	GBPZAR	9:30:00 AM	18.3899	18.4145			N/A
4/16/2019	GBPZAR	11:30:00 AM	18.3671	18.3917			N/A
4/16/2019	GBPZAR	1:30:00 PM	18.4097	18.4248			N/A
4/16/2019	GBPZAR	3:30:00 PM	18.3785	18.3953			N/A
4/16/2019	GBPZAR.fx	9:30:00 AM	18.3967	18.4071			N/A
4/16/2019	GBPZAR.fx	11:30:00 AM	18.3741	18.3844			N/A
4/16/2019	GBPZAR.fx	1:30:00 PM	18.4177	18.4178			N/A
4/16/2019	GBPZAR.fx	3:30:00 PM	18.3857	18.3886			N/A
4/16/2019	GOLD	9:30:00 AM	1285.25	1285.38			N/A
4/16/2019	GOLD	11:30:00 AM	1284.51	1284.77			N/A
4/16/2019	GOLD	1:30:00 PM	1283.08	1283.43			N/A
4/16/2019	GOLD	3:30:00 PM	1281.14	1280.02		2	N/A
4/16/2019	HKDJPY	9:30:00 AM	14.28	14.29			N/A
4/16/2019	HKDJPY	11:30:00 AM	14.28	14.28			N/A
4/16/2019	HKDJPY	1:30:00 PM	14.27	14.28			N/A
4/16/2019	HKDJPY	3:30:00 PM	14.28	14.3			N/A
4/16/2019	HKDJPY.fx	9:30:00 AM	14.275	14.279			N/A
4/16/2019	HKDJPY.fx	11:30:00 AM	14.271	14.278			N/A
4/16/2019	HKDJPY.fx	1:30:00 PM	14.265	14.272			N/A
4/16/2019	HKDJPY.fx	3:30:00 PM	14.276	14.283			N/A
4/16/2019	HUFJPY	9:30:00 AM	0.3955	0.3958			N/A
4/16/2019	HUFJPY	11:30:00 AM	0.3962	0.3965			N/A
4/16/2019	HUFJPY	1:30:00 PM	0.3954	0.3957			N/A
4/16/2019	HUFJPY	3:30:00 PM	0.3962	0.3965			N/A

4/16/2019	JP225.i	9:30:00 AM	22199.76	22214.76			N/A
4/16/2019	JP225.i	11:30:00 AM					N/A
4/16/2019	JP225.i	1:30:00 PM	22244.76	22259.76			N/A
4/16/2019	JP225.i	3:30:00 PM	22306.43	22317.26			N/A
4/16/2019	MXNJPY	9:30:00 AM	5.92	5.93			N/A
4/16/2019	MXNJPY	11:30:00 AM					N/A
4/16/2019	MXNJPY	1:30:00 PM	5.92	5.93			N/A
4/16/2019	MXNJPY	3:30:00 PM	5.93	5.93			N/A
4/16/2019	NASDAQ.i	9:30:00 AM					N/A
4/16/2019	NASDAQ.i	11:30:00 AM					N/A
4/16/2019	NASDAQ.i	1:30:00 PM					N/A
4/16/2019	NASDAQ.i	3:30:00 PM					N/A
4/16/2019	NOKJPY	9:30:00 AM	13.17	13.2			N/A
4/16/2019	NOKJPY	11:30:00 AM	13.17	13.2			N/A
4/16/2019	NOKJPY	1:30:00 PM	13.17	13.19			N/A
4/16/2019	NOKJPY	3:30:00 PM	13.19	13.21			N/A
4/16/2019	NOKJPY.fx	9:30:00 AM	13.174	13.18			N/A
4/16/2019	NOKJPY.fx	11:30:00 AM	13.18	13.188			N/A
4/16/2019	NOKJPY.fx	1:30:00 PM	13.163	13.169			N/A
4/16/2019	NOKJPY.fx	3:30:00 PM	13.194	13.197			N/A
4/16/2019	NZDCAD	9:30:00 AM	0.90481	0.90548			N/A
4/16/2019	NZDCAD	11:30:00 AM	0.9039	0.90464			N/A
4/16/2019	NZDCAD	1:30:00 PM	0.9033	0.90386			N/A
4/16/2019	NZDCAD	3:30:00 PM	0.90367	0.90392			N/A
4/16/2019	NZDCAD.fx	9:30:00 AM	0.90515	0.90514			N/A
4/16/2019	NZDCAD.fx	11:30:00 AM	0.90423	0.90429			N/A
4/16/2019	NZDCAD.fx	1:30:00 PM	0.90363	0.90352			N/A
4/16/2019	NZDCAD.fx	3:30:00 PM	0.90401	0.9036			N/A
4/16/2019	NZDCHF	9:30:00 AM	0.67805	0.67874			N/A
4/16/2019	NZDCHF	11:30:00 AM	0.67723	0.678			N/A
4/16/2019	NZDCHF	1:30:00 PM	0.67853	0.67925			N/A
4/16/2019	NZDCHF	3:30:00 PM	0.67972	0.68035			N/A
4/16/2019	NZDCHF.fx	9:30:00 AM	0.67839	0.67839			N/A
4/16/2019	NZDCHF.fx	11:30:00 AM	0.67756	0.67766			N/A

4/16/2019	NZDCHF.fx	1:30:00 PM	0.67886	0.6789			N/A
4/16/2019	NZDCHF.fx	3:30:00 PM	0.68006	0.67997			N/A
4/16/2019	NZDCZK	9:30:00 AM	15.308	15.32			N/A
4/16/2019	NZDCZK	11:30:00 AM	15.294	15.305			N/A
4/16/2019	NZDCZK	1:30:00 PM	15.31	15.321			N/A
4/16/2019	NZDCZK	3:30:00 PM	15.329	15.34			N/A
4/16/2019	NZDDKK	9:30:00 AM					N/A
4/16/2019	NZDDKK	11:30:00 AM	4.452	4.456			N/A
4/16/2019	NZDDKK	1:30:00 PM					N/A
4/16/2019	NZDDKK	3:30:00 PM	4.459	4.463			N/A
4/16/2019	NZDHKD	9:30:00 AM	5.2939	5.2968			N/A
4/16/2019	NZDHKD	11:30:00 AM	5.2902	5.2931			N/A
4/16/2019	NZDHKD	1:30:00 PM	5.2893	5.2921			N/A
4/16/2019	NZDHKD	3:30:00 PM	5.2978	5.2996			N/A
4/16/2019	NZDHUF	9:30:00 AM	191.08	191.35			N/A
4/16/2019	NZDHUF	11:30:00 AM	190.66	190.91			N/A
4/16/2019	NZDHUF	1:30:00 PM	190.87	191.15			N/A
4/16/2019	NZDHUF	3:30:00 PM	191.05	191.2			N/A
4/16/2019	NZDJPY	9:30:00 AM	75.607	75.666			N/A
4/16/2019	NZDJPY	11:30:00 AM	75.539	75.611			N/A
4/16/2019	NZDJPY	1:30:00 PM	75.484	75.553			N/A
4/16/2019	NZDJPY	3:30:00 PM	75.669	75.709			N/A
4/16/2019	NZDJPY.fx	9:30:00 AM	75.639	75.634			N/A
4/16/2019	NZDJPY.fx	11:30:00 AM	75.571	75.579			N/A
4/16/2019	NZDJPY.fx	1:30:00 PM	75.516	75.52			N/A
4/16/2019	NZDJPY.fx	3:30:00 PM	75.701	75.675			N/A
4/16/2019	NZDMXN	9:30:00 AM	12.761	12.7656			N/A
4/16/2019	NZDMXN	11:30:00 AM	12.7389	12.7444			N/A
4/16/2019	NZDMXN	1:30:00 PM	12.7553	12.7585			N/A
4/16/2019	NZDMXN	3:30:00 PM	12.7627	12.7645			N/A
4/16/2019	NZDNOK	9:30:00 AM	5.734	5.7378			N/A
4/16/2019	NZDNOK	11:30:00 AM	5.7243	5.727			N/A
4/16/2019	NZDNOK	1:30:00 PM	5.73	5.7329			N/A
4/16/2019	NZDNOK	3:30:00 PM	5.7296	5.7313			N/A

4/16/2019	NZDPLN	9:30:00 AM	2.5537	2.5551			N/A
4/16/2019	NZDPLN	11:30:00 AM	2.5495	2.5509			N/A
4/16/2019	NZDPLN	1:30:00 PM	2.5517	2.5529			N/A
4/16/2019	NZDPLN	3:30:00 PM	2.5567	2.5564			N/A
4/16/2019	NZDSEK	9:30:00 AM	6.2565	6.2631			N/A
4/16/2019	NZDSEK	11:30:00 AM	6.2427	6.2496			N/A
4/16/2019	NZDSEK	1:30:00 PM	6.248	6.2545			N/A
4/16/2019	NZDSEK	3:30:00 PM	6.251	6.2572			N/A
4/16/2019	NZDSGD	9:30:00 AM	0.9141	0.9147			N/A
4/16/2019	NZDSGD	11:30:00 AM	0.9139	0.9144			N/A
4/16/2019	NZDSGD	1:30:00 PM	0.914	0.9146			N/A
4/16/2019	NZDSGD	3:30:00 PM	0.9149	0.9153			N/A
4/16/2019	NZDSGD.fx	9:30:00 AM	0.91409	0.91462			N/A
4/16/2019	NZDSGD.fx	11:30:00 AM	0.91398	0.91457			N/A
4/16/2019	NZDSGD.fx	1:30:00 PM	0.91397	0.91457			N/A
4/16/2019	NZDSGD.fx	3:30:00 PM	0.91485	0.91521			N/A
4/16/2019	NZDUSD	9:30:00 AM	0.67566	0.67575			N/A
4/16/2019	NZDUSD	11:30:00 AM	0.67507	0.67526			N/A
4/16/2019	NZDUSD	1:30:00 PM	0.67477	0.6749			N/A
4/16/2019	NZDUSD	3:30:00 PM	0.67579	0.6757			N/A
4/16/2019	NZDUSD.fx	9:30:00 AM	0.67573	0.67577			N/A
4/16/2019	NZDUSD.fx	11:30:00 AM	0.67514	0.67526			N/A
4/16/2019	NZDUSD.fx	1:30:00 PM	0.67484	0.67491			N/A
4/16/2019	NZDUSD.fx	3:30:00 PM	0.67587	0.67571			N/A
4/16/2019	NZDZAR	9:30:00 AM	9.4861	9.5008			N/A
4/16/2019	NZDZAR	11:30:00 AM	9.4661	9.4821			N/A
4/16/2019	NZDZAR	1:30:00 PM	9.4908	9.5013			N/A
4/16/2019	NZDZAR	3:30:00 PM	9.4912	9.5016			N/A
4/16/2019	SEKJPY	9:30:00 AM	12.08	12.09			N/A
4/16/2019	SEKJPY	11:30:00 AM	12.09	12.1			N/A
4/16/2019	SEKJPY	1:30:00 PM	12.08	12.09			N/A
4/16/2019	SEKJPY	3:30:00 PM	12.1	12.1			N/A
4/16/2019	SEKJPY.fx	9:30:00 AM	12.069	12.085			N/A
4/16/2019	SEKJPY.fx	11:30:00 AM	12.083	12.102			N/A

4/16/2019	SEKJPY.fx	1:30:00 PM	12.066	12.084			N/A
4/16/2019	SEKJPY.fx	3:30:00 PM	12.09	12.104			N/A
4/16/2019	SGDJPY	9:30:00 AM	82.75	82.71			N/A
4/16/2019	SGDJPY	11:30:00 AM	82.64	82.67			N/A
4/16/2019	SGDJPY	1:30:00 PM	82.63	82.6			N/A
4/16/2019	SGDJPY	3:30:00 PM	82.69	82.71			N/A
4/16/2019	SILVER	9:30:00 AM	14.79	15.17			N/A
4/16/2019	SILVER	11:30:00 AM	14.75	15.14			N/A
4/16/2019	SILVER	1:30:00 PM	14.75	15.13			N/A
4/16/2019	SILVER	3:30:00 PM	14.73	15.1			N/A
4/16/2019	SPX500.i	9:30:00 AM	2911.79	2912.84			N/A
4/16/2019	SPX500.i	11:30:00 AM	2915.54	2916.59			N/A
4/16/2019	SPX500.i	1:30:00 PM	2915.29	2916.34			N/A
4/16/2019	SPX500.i	3:30:00 PM	2917.29	2917.34			N/A
4/16/2019	UK100.i	9:30:00 AM	7460.76	7459.59			N/A
4/16/2019	UK100.i	11:30:00 AM	7475.76	7476.26			N/A
4/16/2019	UK100.i	1:30:00 PM	7473.76	7474.76			N/A
4/16/2019	UK100.i	3:30:00 PM	7484.41	7485.76			N/A
4/16/2019	USDCAD	9:30:00 AM	1.33943	1.3395			N/A
4/16/2019	USDCAD	11:30:00 AM	1.33923	1.33931			N/A
4/16/2019	USDCAD	1:30:00 PM	1.33897	1.33877			N/A
4/16/2019	USDCAD	3:30:00 PM	1.33773	1.3369			N/A
4/16/2019	USDCAD.fx	9:30:00 AM	1.33945	1.33948			N/A
4/16/2019	USDCAD.fx	11:30:00 AM	1.33925	1.33927			N/A
4/16/2019	USDCAD.fx	1:30:00 PM	1.33901	1.33873			N/A
4/16/2019	USDCAD.fx	3:30:00 PM	1.33776	1.33687			N/A
4/16/2019	USDCHF	9:30:00 AM	1.00386	1.00394			N/A
4/16/2019	USDCHF	11:30:00 AM	1.00348	1.00366			N/A
4/16/2019	USDCHF	1:30:00 PM	1.00588	1.00596			N/A
4/16/2019	USDCHF	3:30:00 PM	1.00627	1.00622			N/A
4/16/2019	USDCHF.fx	9:30:00 AM	1.0039	1.00387			N/A
4/16/2019	USDCHF.fx	11:30:00 AM	1.00351	1.00361			N/A
4/16/2019	USDCHF.fx	1:30:00 PM	1.00593	1.0059			N/A
4/16/2019	USDCHF.fx	3:30:00 PM	1.00632	1.00616			N/A

4/16/2019	USDCZK	9:30:00 AM	22.67	22.691			N/A
4/16/2019	USDCZK	11:30:00 AM	22.668	22.69			N/A
4/16/2019	USDCZK	1:30:00 PM	22.703	22.724			N/A
4/16/2019	USDCZK	3:30:00 PM	22.704	22.719			N/A
4/16/2019	USDCZK.fx	9:30:00 AM	22.6782	22.6838			N/A
4/16/2019	USDCZK.fx	11:30:00 AM	22.6768	22.6813			N/A
4/16/2019	USDCZK.fx	1:30:00 PM	22.7115	22.7148			N/A
4/16/2019	USDCZK.fx	3:30:00 PM	22.7125	22.7095			N/A
4/16/2019	USDDKK	9:30:00 AM	6.5985	6.6024			N/A
4/16/2019	USDDKK	11:30:00 AM	6.5958	6.6001			N/A
4/16/2019	USDDKK	1:30:00 PM	6.6036	6.6069			N/A
4/16/2019	USDDKK	3:30:00 PM	6.6021	6.6038			N/A
4/16/2019	USDDKK.fx	9:30:00 AM	6.5992	6.60033			N/A
4/16/2019	USDDKK.fx	11:30:00 AM	6.59642	6.59812			N/A
4/16/2019	USDDKK.fx	1:30:00 PM	6.60401	6.60493			N/A
4/16/2019	USDDKK.fx	3:30:00 PM	6.60261	6.60184			N/A
4/16/2019	USDHKD	9:30:00 AM	7.8392	7.8395			N/A
4/16/2019	USDHKD	11:30:00 AM	7.8404	7.8408			N/A
4/16/2019	USDHKD	1:30:00 PM	7.8415	7.8419			N/A
4/16/2019	USDHKD	3:30:00 PM	7.8425	7.8427			N/A
4/16/2019	USDHKD.fx	9:30:00 AM	7.83918	7.8394			N/A
4/16/2019	USDHKD.fx	11:30:00 AM	7.84035	7.84083			N/A
4/16/2019	USDHKD.fx	1:30:00 PM	7.84148	7.84204			N/A
4/16/2019	USDHKD.fx	3:30:00 PM	7.84248	7.84301			N/A
4/16/2019	USDHUF	9:30:00 AM	282.87	283.32			N/A
4/16/2019	USDHUF	11:30:00 AM	282.55	283			N/A
4/16/2019	USDHUF	1:30:00 PM	282.95	283.39			N/A
4/16/2019	USDHUF	3:30:00 PM	282.89	283.22			N/A
4/16/2019	USDHUF.fx	9:30:00 AM	283.077	283.113			N/A
4/16/2019	USDHUF.fx	11:30:00 AM	282.757	282.805			N/A
4/16/2019	USDHUF.fx	1:30:00 PM	283.143	283.185			N/A
4/16/2019	USDHUF.fx	3:30:00 PM	283.085	283.005			N/A
4/16/2019	USDINR	9:30:00 AM	64.58	74.57			N/A
4/16/2019	USDINR	11:30:00 AM	64.6	74.59			N/A

4/16/2019	USDINR	1:30:00 PM					N/A
4/16/2019	USDINR	3:30:00 PM					N/A
4/16/2019	USDJPY	9:30:00 AM	111.932	111.923	1000	1000	N/A
4/16/2019	USDJPY	11:30:00 AM	111.924	111.933			N/A
4/16/2019	USDJPY	1:30:00 PM	111.892	111.904			N/A
4/16/2019	USDJPY	3:30:00 PM	111.997	112.001			N/A
4/16/2019	USDJPY.fx	9:30:00 AM	111.94	111.915			N/A
4/16/2019	USDJPY.fx	11:30:00 AM	111.929	111.927			N/A
4/16/2019	USDJPY.fx	1:30:00 PM	111.898	111.897			N/A
4/16/2019	USDJPY.fx	3:30:00 PM	112.003	111.994			N/A
4/16/2019	USDMXN	9:30:00 AM	18.893	18.899			N/A
4/16/2019	USDMXN	11:30:00 AM	18.876	18.884			N/A
4/16/2019	USDMXN	1:30:00 PM	18.909	18.912			N/A
4/16/2019	USDMXN	3:30:00 PM	18.898	18.895			N/A
4/16/2019	USDMXN.fx	9:30:00 AM	18.8958	18.8957			N/A
4/16/2019	USDMXN.fx	11:30:00 AM	18.8791	18.8819			N/A
4/16/2019	USDMXN.fx	1:30:00 PM	18.9126	18.9081			N/A
4/16/2019	USDMXN.fx	3:30:00 PM	18.9016	18.8913			N/A
4/16/2019	USDNOK	9:30:00 AM	8.4872	8.4955			N/A
4/16/2019	USDNOK	11:30:00 AM	8.4823	8.4911			N/A
4/16/2019	USDNOK	1:30:00 PM	8.4925	8.4999			N/A
4/16/2019	USDNOK	3:30:00 PM	8.4819	8.4878			N/A
4/16/2019	USDNOK.fx	9:30:00 AM	8.49134	8.4912			N/A
4/16/2019	USDNOK.fx	11:30:00 AM	8.48611	8.48675			N/A
4/16/2019	USDNOK.fx	1:30:00 PM	8.49646	8.49549			N/A
4/16/2019	USDNOK.fx	3:30:00 PM	8.48576	8.48346			N/A
4/16/2019	USDPLN	9:30:00 AM	3.7803	3.7816			N/A
4/16/2019	USDPLN	11:30:00 AM	3.7788	3.7804			N/A
4/16/2019	USDPLN	1:30:00 PM	3.783	3.7837			N/A
4/16/2019	USDPLN	3:30:00 PM	3.7858	3.785			N/A
4/16/2019	USDPLN.fx	9:30:00 AM	3.77958	3.78259			N/A
4/16/2019	USDPLN.fx	11:30:00 AM	3.77787	3.78123			N/A
4/16/2019	USDPLN.fx	1:30:00 PM	3.78208	3.78453			N/A
4/16/2019	USDPLN.fx	3:30:00 PM	3.7849	3.78573			N/A

4/16/2019	USDRUB	9:30:00 AM					N/A
4/16/2019	USDRUB	11:30:00 AM	64.053	64.447			N/A
4/16/2019	USDRUB	1:30:00 PM	64.183	64.545			N/A
4/16/2019	USDRUB	3:30:00 PM	64.158	64.536			N/A
4/16/2019	USDSEK	9:30:00 AM	9.2648	9.2683			N/A
4/16/2019	USDSEK	11:30:00 AM	9.2527	9.2575			N/A
4/16/2019	USDSEK	1:30:00 PM	9.2644	9.2679			N/A
4/16/2019	USDSEK	3:30:00 PM	9.257	9.2586			N/A
4/16/2019	USDSEK.fx	9:30:00 AM	9.26751	9.26656			N/A
4/16/2019	USDSEK.fx	11:30:00 AM	9.25519	9.25577			N/A
4/16/2019	USDSEK.fx	1:30:00 PM	9.26695	9.26613			N/A
4/16/2019	USDSEK.fx	3:30:00 PM	9.2596	9.25689			N/A
4/16/2019	USDSGD	9:30:00 AM	1.3529	1.3533			N/A
4/16/2019	USDSGD	11:30:00 AM	1.3539	1.3542			N/A
4/16/2019	USDSGD	1:30:00 PM	1.3545	1.3548			N/A
4/16/2019	USDSGD	3:30:00 PM	1.3539	1.3541			N/A
4/16/2019	USDSGD.fx	9:30:00 AM	1.35291	1.35331			N/A
4/16/2019	USDSGD.fx	11:30:00 AM	1.35383	1.35428			N/A
4/16/2019	USDSGD.fx	1:30:00 PM	1.35445	1.35496			N/A
4/16/2019	USDSGD.fx	3:30:00 PM	1.35385	1.35413			N/A
4/16/2019	USDZAR	9:30:00 AM	14.0492	14.0636			N/A
4/16/2019	USDZAR	11:30:00 AM	14.0343	14.0523			N/A
4/16/2019	USDZAR	1:30:00 PM	14.0763	14.0821			N/A
4/16/2019	USDZAR	3:30:00 PM	14.0591	14.0662			N/A
4/16/2019	USDZAR.fx	9:30:00 AM					N/A
4/16/2019	USDZAR.fx	11:30:00 AM					N/A
4/16/2019	USDZAR.fx	1:30:00 PM					N/A
4/16/2019	USDZAR.fx	3:30:00 PM					N/A
4/16/2019	XAUUSD	9:30:00 AM	1285.26	1285.37			N/A
4/16/2019	XAUUSD	11:30:00 AM	1284.5	1284.77			N/A
4/16/2019	XAUUSD	1:30:00 PM	1283.09	1283.43			N/A
4/16/2019	XAUUSD	3:30:00 PM	1281.17	1280.01			N/A
4/16/2019	ZARJPY	9:30:00 AM	7.95	7.97			N/A
4/16/2019	ZARJPY	11:30:00 AM	7.95	7.97			N/A

4/16/2019	ZARJPY	1:30:00 PM	7.93	7.96			N/A
4/16/2019	ZARJPY	3:30:00 PM	7.95	7.96			N/A
4/16/2019	ZARJPY.fx	9:30:00 AM	7.962	7.964			N/A
4/16/2019	ZARJPY.fx	11:30:00 AM	7.967	7.972			N/A
4/16/2019	ZARJPY.fx	1:30:00 PM	7.948	7.946			N/A
4/16/2019	ZARJPY.fx	3:30:00 PM	7.964	7.963			N/A
4/17/2019	#AA	9:30:00 AM					N/A
4/17/2019	#AA	11:30:00 AM					N/A
4/17/2019	#AA	1:30:00 PM					N/A
4/17/2019	#AA	3:30:00 PM					N/A
4/17/2019	#AABA	9:30:00 AM					N/A
4/17/2019	#AABA	11:30:00 AM					N/A
4/17/2019	#AABA	1:30:00 PM					N/A
4/17/2019	#AABA	3:30:00 PM					N/A
4/17/2019	#AAL	9:30:00 AM					N/A
4/17/2019	#AAL	11:30:00 AM					N/A
4/17/2019	#AAL	1:30:00 PM					N/A
4/17/2019	#AAL	3:30:00 PM					N/A
4/17/2019	#AAPL	9:30:00 AM					N/A
4/17/2019	#AAPL	11:30:00 AM					N/A
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4/17/2019	#ADBE	11:30:00 AM					N/A
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4/17/2019	#AMD	11:30:00 AM					N/A
4/17/2019	#AMD	1:30:00 PM					N/A
4/17/2019	#AMD	3:30:00 PM					N/A

4/17/2019	#AMZN	9:30:00 AM					N/A
4/17/2019	#AMZN	11:30:00 AM					N/A
4/17/2019	#AMZN	1:30:00 PM					N/A
4/17/2019	#AMZN	3:30:00 PM					N/A
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4/17/2019	#AXP	3:30:00 PM					N/A
4/17/2019	#BA	9:30:00 AM					N/A
4/17/2019	#BA	11:30:00 AM					N/A
4/17/2019	#BA	1:30:00 PM					N/A
4/17/2019	#BA	3:30:00 PM					N/A
4/17/2019	#BABA	9:30:00 AM					N/A
4/17/2019	#BABA	11:30:00 AM					N/A
4/17/2019	#BABA	1:30:00 PM					N/A
4/17/2019	#BABA	3:30:00 PM					N/A
4/17/2019	#BAC	9:30:00 AM					N/A
4/17/2019	#BAC	11:30:00 AM					N/A
4/17/2019	#BAC	1:30:00 PM					N/A
4/17/2019	#BAC	3:30:00 PM					N/A
4/17/2019	#BARC	9:30:00 AM					N/A
4/17/2019	#BARC	11:30:00 AM					N/A
4/17/2019	#BARC	1:30:00 PM					N/A
4/17/2019	#BARC	3:30:00 PM					N/A
4/17/2019	#BHP	9:30:00 AM					N/A
4/17/2019	#BHP	11:30:00 AM					N/A
4/17/2019	#BHP	1:30:00 PM					N/A
4/17/2019	#BHP	3:30:00 PM					N/A
4/17/2019	#BIDU	9:30:00 AM					N/A
4/17/2019	#BIDU	11:30:00 AM					N/A
4/17/2019	#BIDU	1:30:00 PM					N/A
4/17/2019	#BIDU	3:30:00 PM					N/A
4/17/2019	#Bitcoin	9:30:00 AM	5219.46	5293.71			N/A
4/17/2019	#Bitcoin	11:30:00 AM	5213.46	5287.56			N/A

4/17/2019	#Bitcoin	1:30:00 PM	5199.26	5272.66			N/A
4/17/2019	#Bitcoin	3:30:00 PM	5202.76	5271.76			N/A
4/17/2019	#BK	9:30:00 AM					N/A
4/17/2019	#BK	11:30:00 AM					N/A
4/17/2019	#BK	1:30:00 PM					N/A
4/17/2019	#BK	3:30:00 PM					N/A
4/17/2019	#BLT	9:30:00 AM					N/A
4/17/2019	#BLT	11:30:00 AM					N/A
4/17/2019	#BLT	1:30:00 PM					N/A
4/17/2019	#BLT	3:30:00 PM					N/A
4/17/2019	#BP	9:30:00 AM					N/A
4/17/2019	#BP	11:30:00 AM					N/A
4/17/2019	#BP	1:30:00 PM					N/A
4/17/2019	#BP	3:30:00 PM					N/A
4/17/2019	#BTA	9:30:00 AM					N/A
4/17/2019	#BTA	11:30:00 AM					N/A
4/17/2019	#BTA	1:30:00 PM					N/A
4/17/2019	#BTA	3:30:00 PM					N/A
4/17/2019	#C	9:30:00 AM					N/A
4/17/2019	#C	11:30:00 AM					N/A
4/17/2019	#C	1:30:00 PM					N/A
4/17/2019	#C	3:30:00 PM					N/A
4/17/2019	#CAT	9:30:00 AM					N/A
4/17/2019	#CAT	11:30:00 AM					N/A
4/17/2019	#CAT	1:30:00 PM					N/A
4/17/2019	#CAT	3:30:00 PM					N/A
4/17/2019	#CHL	9:30:00 AM					N/A
4/17/2019	#CHL	11:30:00 AM					N/A
4/17/2019	#CHL	1:30:00 PM					N/A
4/17/2019	#CHL	3:30:00 PM					N/A
4/17/2019	#CL.f	9:30:00 AM	64.573	64.616			N/A
4/17/2019	#CL.f	11:30:00 AM	64.594	64.627			N/A
4/17/2019	#CL.f	1:30:00 PM	64.567	64.607			N/A
4/17/2019	#CL.f	3:30:00 PM	64.507	64.566			N/A

4/17/2019	#CMCSA	9:30:00 AM					N/A
4/17/2019	#CMCSA	11:30:00 AM					N/A
4/17/2019	#CMCSA	1:30:00 PM					N/A
4/17/2019	#CMCSA	3:30:00 PM					N/A
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4/17/2019	#CSCO	11:30:00 AM					N/A
4/17/2019	#CSCO	1:30:00 PM					N/A
4/17/2019	#CSCO	3:30:00 PM					N/A
4/17/2019	#CVX	9:30:00 AM					N/A
4/17/2019	#CVX	11:30:00 AM					N/A
4/17/2019	#CVX	1:30:00 PM					N/A
4/17/2019	#CVX	3:30:00 PM					N/A
4/17/2019	#DD	9:30:00 AM					N/A
4/17/2019	#DD	11:30:00 AM					N/A
4/17/2019	#DD	1:30:00 PM					N/A
4/17/2019	#DD	3:30:00 PM					N/A
4/17/2019	#DIS	9:30:00 AM					N/A
4/17/2019	#DIS	11:30:00 AM					N/A
4/17/2019	#DIS	1:30:00 PM					N/A
4/17/2019	#DIS	3:30:00 PM					N/A
4/17/2019	#DWDP	9:30:00 AM					N/A
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4/17/2019	AUDCHF.fx	1:30:00 PM	0.72581	0.72584			N/A
4/17/2019	AUDCHF.fx	3:30:00 PM	0.72527	0.72519			N/A
4/17/2019	AUDCZK	9:30:00 AM	16.316	16.328			N/A
4/17/2019	AUDCZK	11:30:00 AM	16.308	16.325			N/A
4/17/2019	AUDCZK	1:30:00 PM	16.306	16.323			N/A
4/17/2019	AUDCZK	3:30:00 PM	16.303	16.317			N/A
4/17/2019	AUDDKK	9:30:00 AM	4.7483	4.7516			N/A
4/17/2019	AUDDKK	11:30:00 AM	4.748	4.7524			N/A
4/17/2019	AUDDKK	1:30:00 PM	4.7481	4.7529			N/A
4/17/2019	AUDDKK	3:30:00 PM	4.7486	4.7525			N/A
4/17/2019	AUDHKD	9:30:00 AM	5.6426	5.6443			N/A
4/17/2019	AUDHKD	11:30:00 AM	5.6475	5.6512			N/A

4/17/2019	AUDHKD	1:30:00 PM	5.6439	5.6476			N/A
4/17/2019	AUDHKD	3:30:00 PM	5.6393	5.6426			N/A
4/17/2019	AUDHUF	9:30:00 AM	203.32	203.52			N/A
4/17/2019	AUDHUF	11:30:00 AM	202.87	203.01			N/A
4/17/2019	AUDHUF	1:30:00 PM	203.04	203.28			N/A
4/17/2019	AUDHUF	3:30:00 PM	203.13	203.35			N/A
4/17/2019	AUDJPY	9:30:00 AM	80.553	80.595			N/A
4/17/2019	AUDJPY	11:30:00 AM	80.641	80.694			N/A
4/17/2019	AUDJPY	1:30:00 PM	80.574	80.645			N/A
4/17/2019	AUDJPY	3:30:00 PM	80.516	80.567			N/A
4/17/2019	AUDJPY.fx	9:30:00 AM	80.587	80.56			N/A
4/17/2019	AUDJPY.fx	11:30:00 AM	80.675	80.659			N/A
4/17/2019	AUDJPY.fx	1:30:00 PM	80.608	80.611			N/A
4/17/2019	AUDJPY.fx	3:30:00 PM	80.549	80.534			N/A
4/17/2019	AUDMXN	9:30:00 AM	13.5495	13.5547			N/A
4/17/2019	AUDMXN	11:30:00 AM	13.5349	13.5412			N/A
4/17/2019	AUDMXN	1:30:00 PM	13.5368	13.5469			N/A
4/17/2019	AUDMXN	3:30:00 PM	13.5246	13.5299			N/A
4/17/2019	AUDNOK	9:30:00 AM	6.0979	6.1019			N/A
4/17/2019	AUDNOK	11:30:00 AM	6.0946	6.0993			N/A
4/17/2019	AUDNOK	1:30:00 PM	6.0971	6.1026			N/A
4/17/2019	AUDNOK	3:30:00 PM	6.0926	6.0958			N/A
4/17/2019	AUDNOK.fx	9:30:00 AM	6.0995	6.1003			N/A
4/17/2019	AUDNOK.fx	11:30:00 AM	6.0963	6.0976			N/A
4/17/2019	AUDNOK.fx	1:30:00 PM	6.0988	6.1009			N/A
4/17/2019	AUDNOK.fx	3:30:00 PM	6.0942	6.0943			N/A
4/17/2019	AUDNZD	9:30:00 AM	1.06706	1.06792			N/A
4/17/2019	AUDNZD	11:30:00 AM	1.06844	1.06911			N/A
4/17/2019	AUDNZD	1:30:00 PM	1.06782	1.0687			N/A
4/17/2019	AUDNZD	3:30:00 PM	1.06826	1.06894			N/A
4/17/2019	AUDNZD.fx	9:30:00 AM	1.06749	1.06748			N/A
4/17/2019	AUDNZD.fx	11:30:00 AM	1.06887	1.06867			N/A
4/17/2019	AUDNZD.fx	1:30:00 PM	1.06825	1.06826			N/A
4/17/2019	AUDNZD.fx	3:30:00 PM	1.06866	1.0685			N/A

4/17/2019	AUDPLN	9:30:00 AM	2.7202	2.723			N/A
4/17/2019	AUDPLN	11:30:00 AM	2.7177	2.7207			N/A
4/17/2019	AUDPLN	1:30:00 PM	2.717	2.7202			N/A
4/17/2019	AUDPLN	3:30:00 PM	2.717	2.72			N/A
4/17/2019	AUDSEK	9:30:00 AM	6.6488	6.6503			N/A
4/17/2019	AUDSEK	11:30:00 AM	6.6456	6.6471			N/A
4/17/2019	AUDSEK	1:30:00 PM	6.6416	6.6438			N/A
4/17/2019	AUDSEK	3:30:00 PM	6.6414	6.6437			N/A
4/17/2019	AUDSEK.fx	9:30:00 AM	6.6442	6.6548			N/A
4/17/2019	AUDSEK.fx	11:30:00 AM	6.6409	6.6514			N/A
4/17/2019	AUDSEK.fx	1:30:00 PM	6.6372	6.6483			N/A
4/17/2019	AUDSEK.fx	3:30:00 PM	6.6368	6.6482			N/A
4/17/2019	AUDSGD	9:30:00 AM	0.9738	0.9739			N/A
4/17/2019	AUDSGD	11:30:00 AM	0.974	0.9742			N/A
4/17/2019	AUDSGD	1:30:00 PM	0.9733	0.9736			N/A
4/17/2019	AUDSGD	3:30:00 PM	0.973	0.9731			N/A
4/17/2019	AUDSGD.fx	9:30:00 AM	0.97393	0.9738			N/A
4/17/2019	AUDSGD.fx	11:30:00 AM	0.9741	0.97408			N/A
4/17/2019	AUDSGD.fx	1:30:00 PM	0.97341	0.97353			N/A
4/17/2019	AUDSGD.fx	3:30:00 PM	0.97303	0.97299			N/A
4/17/2019	AUDUSD	9:30:00 AM	0.71981	0.71969			N/A
4/17/2019	AUDUSD	11:30:00 AM	0.72037	0.72038			N/A
4/17/2019	AUDUSD	1:30:00 PM	0.71978	0.7199			N/A
4/17/2019	AUDUSD	3:30:00 PM	0.71938	0.71934			N/A
4/17/2019	AUDUSD.fx	9:30:00 AM	0.71986	0.71964			N/A
4/17/2019	AUDUSD.fx	11:30:00 AM	0.72041	0.72033			N/A
4/17/2019	AUDUSD.fx	1:30:00 PM	0.71982	0.71984			N/A
4/17/2019	AUDUSD.fx	3:30:00 PM	0.71942	0.7193			N/A
4/17/2019	AUDZAR	9:30:00 AM	10.0489	10.0624			N/A
4/17/2019	AUDZAR	11:30:00 AM	10.0298	10.0437			N/A
4/17/2019	AUDZAR	1:30:00 PM	10.0204	10.0332			N/A
4/17/2019	AUDZAR	3:30:00 PM	10.032	10.0443			N/A
4/17/2019	AUS200.i	9:30:00 AM	6257.32	6261.82			N/A
4/17/2019	AUS200.i	11:30:00 AM	6257.72	6259.52			N/A

4/17/2019	AUS200.i	1:30:00 PM	6263.02	6266.52			N/A
4/17/2019	AUS200.i	3:30:00 PM	6268.42	6270.02			N/A
4/17/2019	BCHUSD	9:30:00 AM	313.1	325.1			N/A
4/17/2019	BCHUSD	11:30:00 AM	312.7	324.24			N/A
4/17/2019	BCHUSD	1:30:00 PM	311.43	323.18			N/A
4/17/2019	BCHUSD	3:30:00 PM	312.28	323.51			N/A
4/17/2019	CADCHF	9:30:00 AM	0.75534	0.75582			N/A
4/17/2019	CADCHF	11:30:00 AM	0.75674	0.75741			N/A
4/17/2019	CADCHF	1:30:00 PM	0.75658	0.75734			N/A
4/17/2019	CADCHF	3:30:00 PM	0.75806	0.757			N/A
4/17/2019	CADCHF.fx	9:30:00 AM	0.75568	0.75546			N/A
4/17/2019	CADCHF.fx	11:30:00 AM	0.75707	0.75707			N/A
4/17/2019	CADCHF.fx	1:30:00 PM	0.75692	0.75696			N/A
4/17/2019	CADCHF.fx	3:30:00 PM	0.7584	0.75675			N/A
4/17/2019	CADCZK	9:30:00 AM	17.006	17.021			N/A
4/17/2019	CADCZK	11:30:00 AM	17.008	17.023			N/A
4/17/2019	CADCZK	1:30:00 PM	17.008	17.024			N/A
4/17/2019	CADCZK	3:30:00 PM	17.052	17.028			N/A
4/17/2019	CADDDKK	9:30:00 AM	4.949	4.952			N/A
4/17/2019	CADDDKK	11:30:00 AM	4.95	4.953			N/A
4/17/2019	CADDDKK	1:30:00 PM					N/A
4/17/2019	CADDDKK	3:30:00 PM	4.964	4.956			N/A
4/17/2019	CADHKD	9:30:00 AM	5.8805	5.8845			N/A
4/17/2019	CADHKD	11:30:00 AM	5.8901	5.8938			N/A
4/17/2019	CADHKD	1:30:00 PM	5.8867	5.8905			N/A
4/17/2019	CADHKD	3:30:00 PM	5.8982	5.8876			N/A
4/17/2019	CADHUF	9:30:00 AM	211.95	212.1			N/A
4/17/2019	CADHUF	11:30:00 AM	211.58	211.67			N/A
4/17/2019	CADHUF	1:30:00 PM	211.81	211.98			N/A
4/17/2019	CADHUF	3:30:00 PM	212.49	212.15			N/A
4/17/2019	CADJPY	9:30:00 AM	83.955	84.009			N/A
4/17/2019	CADJPY	11:30:00 AM	84.085	84.145			N/A
4/17/2019	CADJPY	1:30:00 PM	84.038	84.111			N/A
4/17/2019	CADJPY	3:30:00 PM	84.206	84.066			N/A

4/17/2019	CADJPY.fx	9:30:00 AM	83.988	83.974			N/A
4/17/2019	CADJPY.fx	11:30:00 AM	84.117	84.111			N/A
4/17/2019	CADJPY.fx	1:30:00 PM	84.072	84.077			N/A
4/17/2019	CADJPY.fx	3:30:00 PM	84.239	84.045			N/A
4/17/2019	CADMXN	9:30:00 AM	14.1228	14.128			N/A
4/17/2019	CADMXN	11:30:00 AM	14.1142	14.1231			N/A
4/17/2019	CADMXN	1:30:00 PM	14.1185	14.1302			N/A
4/17/2019	CADMXN	3:30:00 PM	14.1449	14.1214			N/A
4/17/2019	CADNOK	9:30:00 AM	6.3533	6.3573			N/A
4/17/2019	CADNOK	11:30:00 AM	6.352	6.3553			N/A
4/17/2019	CADNOK	1:30:00 PM	6.3578	6.3623			N/A
4/17/2019	CADNOK	3:30:00 PM	6.3674	6.3557			N/A
4/17/2019	CADPLN	9:30:00 AM	2.8354	2.8373			N/A
4/17/2019	CADPLN	11:30:00 AM	2.8332	2.8347			N/A
4/17/2019	CADPLN	1:30:00 PM	2.8341	2.8359			N/A
4/17/2019	CADPLN	3:30:00 PM	2.841	2.8345			N/A
4/17/2019	CADSEK	9:30:00 AM	6.9269	6.9296			N/A
4/17/2019	CADSEK	11:30:00 AM	6.9262	6.9293			N/A
4/17/2019	CADSEK	1:30:00 PM	6.9245	6.9273			N/A
4/17/2019	CADSEK	3:30:00 PM	6.9428	6.9301			N/A
4/17/2019	CADSGD	9:30:00 AM	1.0143	1.0146			N/A
4/17/2019	CADSGD	11:30:00 AM	1.0151	1.0155			N/A
4/17/2019	CADSGD	1:30:00 PM	1.0144	1.0147			N/A
4/17/2019	CADSGD	3:30:00 PM	1.0163	1.0141			N/A
4/17/2019	CADZAR	9:30:00 AM	10.4742	10.4878			N/A
4/17/2019	CADZAR	11:30:00 AM	10.4586	10.4748			N/A
4/17/2019	CADZAR	1:30:00 PM	10.4509	10.4653			N/A
4/17/2019	CADZAR	3:30:00 PM	10.4919	10.4834			N/A
4/17/2019	CHFCZK	9:30:00 AM	22.513	22.527			N/A
4/17/2019	CHFCZK	11:30:00 AM	22.47	22.486			N/A
4/17/2019	CHFCZK	1:30:00 PM	22.475	22.491			N/A
4/17/2019	CHFCZK	3:30:00 PM	22.49	22.505			N/A
4/17/2019	CHFDKK	9:30:00 AM	6.551	6.554			N/A
4/17/2019	CHFDKK	11:30:00 AM	6.541	6.543			N/A

4/17/2019	CHFDKK	1:30:00 PM	6.544	6.547			N/A
4/17/2019	CHFDKK	3:30:00 PM	6.55	6.553			N/A
4/17/2019	CHFDKK.fx	9:30:00 AM	6.5498	6.5556			N/A
4/17/2019	CHFDKK.fx	11:30:00 AM	6.5394	6.5457			N/A
4/17/2019	CHFDKK.fx	1:30:00 PM	6.5427	6.5489			N/A
4/17/2019	CHFDKK.fx	3:30:00 PM	6.5484	6.5539			N/A
4/17/2019	CHFHKD	9:30:00 AM	7.7859	7.7888			N/A
4/17/2019	CHFHKD	11:30:00 AM	7.781	7.7848			N/A
4/17/2019	CHFHKD	1:30:00 PM	7.7783	7.7822			N/A
4/17/2019	CHFHKD	3:30:00 PM	7.7791	7.783			N/A
4/17/2019	CHFHUF	9:30:00 AM	280.49	280.8			N/A
4/17/2019	CHFHUF	11:30:00 AM	279.45	279.69			N/A
4/17/2019	CHFHUF	1:30:00 PM	279.78	280.16			N/A
4/17/2019	CHFHUF	3:30:00 PM	280.14	280.53			N/A
4/17/2019	CHFJPY	9:30:00 AM	111.115	111.175			N/A
4/17/2019	CHFJPY	11:30:00 AM	111.067	111.129			N/A
4/17/2019	CHFJPY	1:30:00 PM	111.029	111.095			N/A
4/17/2019	CHFJPY	3:30:00 PM	111.041	111.09			N/A
4/17/2019	CHFJPY.fx	9:30:00 AM	111.148	111.14			N/A
4/17/2019	CHFJPY.fx	11:30:00 AM	111.1	111.096			N/A
4/17/2019	CHFJPY.fx	1:30:00 PM	111.062	111.06			N/A
4/17/2019	CHFJPY.fx	3:30:00 PM	111.073	111.057			N/A
4/17/2019	CHFMXN	9:30:00 AM	18.6978	18.6988			N/A
4/17/2019	CHFMXN	11:30:00 AM	18.6445	18.6567			N/A
4/17/2019	CHFMXN	1:30:00 PM	18.6532	18.6696			N/A
4/17/2019	CHFMXN	3:30:00 PM	18.6533	18.6662			N/A
4/17/2019	CHFNOK	9:30:00 AM	8.4116	8.4183			N/A
4/17/2019	CHFNOK	11:30:00 AM	8.3932	8.4016			N/A
4/17/2019	CHFNOK	1:30:00 PM	8.4005	8.4088			N/A
4/17/2019	CHFNOK	3:30:00 PM	8.4009	8.4068			N/A
4/17/2019	CHFNOK.fx	9:30:00 AM	8.41504	8.41487			N/A
4/17/2019	CHFNOK.fx	11:30:00 AM	8.39663	8.39815			N/A
4/17/2019	CHFNOK.fx	1:30:00 PM	8.40391	8.4054			N/A
4/17/2019	CHFNOK.fx	3:30:00 PM	8.40422	8.40334			N/A

4/17/2019	CHFPLN	9:30:00 AM	3.7532	3.755			N/A
4/17/2019	CHFPLN	11:30:00 AM	3.7432	3.7465			N/A
4/17/2019	CHFPLN	1:30:00 PM	3.744	3.7472			N/A
4/17/2019	CHFPLN	3:30:00 PM	3.7467	3.7494			N/A
4/17/2019	CHFPLN.fx	9:30:00 AM	3.75076	3.75735			N/A
4/17/2019	CHFPLN.fx	11:30:00 AM	3.74066	3.74895			N/A
4/17/2019	CHFPLN.fx	1:30:00 PM	3.74164	3.74936			N/A
4/17/2019	CHFPLN.fx	3:30:00 PM	3.74436	3.75185			N/A
4/17/2019	CHFSEK	9:30:00 AM	9.1687	9.1735			N/A
4/17/2019	CHFSEK	11:30:00 AM	9.15	9.154			N/A
4/17/2019	CHFSEK	1:30:00 PM	9.1495	9.1526			N/A
4/17/2019	CHFSEK	3:30:00 PM	9.1559	9.1598			N/A
4/17/2019	CHFSGD	9:30:00 AM	1.3432	1.3436			N/A
4/17/2019	CHFSGD	11:30:00 AM	1.3414	1.3418			N/A
4/17/2019	CHFSGD	1:30:00 PM	1.341	1.3414			N/A
4/17/2019	CHFSGD	3:30:00 PM	1.3416	1.3419			N/A
4/17/2019	CHFSGD.fx	9:30:00 AM	1.34335	1.3433			N/A
4/17/2019	CHFSGD.fx	11:30:00 AM	1.34152	1.34158			N/A
4/17/2019	CHFSGD.fx	1:30:00 PM	1.34119	1.34124			N/A
4/17/2019	CHFSGD.fx	3:30:00 PM	1.34177	1.34173			N/A
4/17/2019	CHFZAR	9:30:00 AM	13.8705	13.8787			N/A
4/17/2019	CHFZAR	11:30:00 AM	13.8208	13.8342			N/A
4/17/2019	CHFZAR	1:30:00 PM	13.8118	13.8238			N/A
4/17/2019	CHFZAR	3:30:00 PM	13.8407	13.8532			N/A
4/17/2019	CZKJPY	9:30:00 AM					N/A
4/17/2019	CZKJPY	11:30:00 AM	4.943	4.947			N/A
4/17/2019	CZKJPY	1:30:00 PM	4.941	4.945			N/A
4/17/2019	CZKJPY	3:30:00 PM					N/A
4/17/2019	DAX30.i	9:30:00 AM	12125.57	12123.07			N/A
4/17/2019	DAX30.i	11:30:00 AM	12118.82	12116.82			N/A
4/17/2019	DAX30.i	1:30:00 PM	12139.82	12139.07			N/A
4/17/2019	DAX30.i	3:30:00 PM	12163.32	12163.07			N/A
4/17/2019	DJ30.i	9:30:00 AM					N/A
4/17/2019	DJ30.i	11:30:00 AM					N/A

4/17/2019	DJ30.i	1:30:00 PM					N/A
4/17/2019	DJ30.i	3:30:00 PM					N/A
4/17/2019	DKKJPY	9:30:00 AM					N/A
4/17/2019	DKKJPY	11:30:00 AM	16.99	17.01			N/A
4/17/2019	DKKJPY	1:30:00 PM	16.98	16.99			N/A
4/17/2019	DKKJPY	3:30:00 PM					N/A
4/17/2019	EURAUD	9:30:00 AM	1.57083	1.57079			N/A
4/17/2019	EURAUD	11:30:00 AM	1.57065	1.5709			N/A
4/17/2019	EURAUD	1:30:00 PM	1.57046	1.57095			N/A
4/17/2019	EURAUD	3:30:00 PM	1.57067	1.57085			N/A
4/17/2019	EURAUD.fx	9:30:00 AM	1.57105	1.57057			N/A
4/17/2019	EURAUD.fx	11:30:00 AM	1.57084	1.57069			N/A
4/17/2019	EURAUD.fx	1:30:00 PM	1.57067	1.57074			N/A
4/17/2019	EURAUD.fx	3:30:00 PM	1.57086	1.57062			N/A
4/17/2019	EURCAD	9:30:00 AM	1.50739	1.50799			N/A
4/17/2019	EURCAD	11:30:00 AM	1.50671	1.50744			N/A
4/17/2019	EURCAD	1:30:00 PM	1.50622	1.50709			N/A
4/17/2019	EURCAD	3:30:00 PM	1.50572	1.50287			N/A
4/17/2019	EURCAD.fx	9:30:00 AM	1.50781	1.50757			N/A
4/17/2019	EURCAD.fx	11:30:00 AM	1.50712	1.50701			N/A
4/17/2019	EURCAD.fx	1:30:00 PM	1.50663	1.50667			N/A
4/17/2019	EURCAD.fx	3:30:00 PM	1.50596	1.50247			N/A
4/17/2019	EURCHF	9:30:00 AM	1.13918	1.13917			N/A
4/17/2019	EURCHF	11:30:00 AM	1.14088	1.14104			N/A
4/17/2019	EURCHF	1:30:00 PM	1.14041	1.14052			N/A
4/17/2019	EURCHF	3:30:00 PM	1.13953	1.13956			N/A
4/17/2019	EURCHF.fx	9:30:00 AM	1.13923	1.13912			N/A
4/17/2019	EURCHF.fx	11:30:00 AM	1.14093	1.14099			N/A
4/17/2019	EURCHF.fx	1:30:00 PM	1.14047	1.14045			N/A
4/17/2019	EURCHF.fx	3:30:00 PM	1.13958	1.1395			N/A
4/17/2019	EURCZK	9:30:00 AM	25.632	25.671			N/A
4/17/2019	EURCZK	11:30:00 AM	25.625	25.662			N/A
4/17/2019	EURCZK	1:30:00 PM	25.619	25.657			N/A
4/17/2019	EURCZK	3:30:00 PM					N/A

4/17/2019	EURDKK	9:30:00 AM	7.4637	7.4638			N/A
4/17/2019	EURDKK	11:30:00 AM	7.4627	7.464			N/A
4/17/2019	EURDKK	1:30:00 PM	7.4628	7.464			N/A
4/17/2019	EURDKK	3:30:00 PM					N/A
4/17/2019	EURGBP	9:30:00 AM	0.8659	0.86586			N/A
4/17/2019	EURGBP	11:30:00 AM	0.86792	0.86742		3000	N/A
4/17/2019	EURGBP	1:30:00 PM	0.86667	0.86675			N/A
4/17/2019	EURGBP	3:30:00 PM	0.86599	0.86605			N/A
4/17/2019	EURGBP.fx	9:30:00 AM	0.86592	0.8658			N/A
4/17/2019	EURGBP.fx	11:30:00 AM	0.86793	0.86741			N/A
4/17/2019	EURGBP.fx	1:30:00 PM	0.8667	0.86671			N/A
4/17/2019	EURGBP.fx	3:30:00 PM	0.86602	0.866			N/A
4/17/2019	EURHKD	9:30:00 AM	8.8688	8.8734			N/A
4/17/2019	EURHKD	11:30:00 AM	8.8783	8.8829			N/A
4/17/2019	EURHKD	1:30:00 PM	8.8711	8.8756			N/A
4/17/2019	EURHKD	3:30:00 PM	8.8656	8.8702			N/A
4/17/2019	EURHKD.fx	9:30:00 AM	8.8713	8.87083			N/A
4/17/2019	EURHKD.fx	11:30:00 AM	8.88085	8.88035			N/A
4/17/2019	EURHKD.fx	1:30:00 PM	8.87365	8.87307			N/A
4/17/2019	EURHKD.fx	3:30:00 PM	8.86816	8.86766			N/A
4/17/2019	EURHUF	9:30:00 AM	319.46	320.14			N/A
4/17/2019	EURHUF	11:30:00 AM	318.79	319.48			N/A
4/17/2019	EURHUF	1:30:00 PM	319.01	319.71			N/A
4/17/2019	EURHUF	3:30:00 PM	319.33	319.78			N/A
4/17/2019	EURHUF.fx	9:30:00 AM	319.714	319.881			N/A
4/17/2019	EURHUF.fx	11:30:00 AM	319.058	319.221			N/A
4/17/2019	EURHUF.fx	1:30:00 PM	319.291	319.481			N/A
4/17/2019	EURHUF.fx	3:30:00 PM	319.601	319.79			N/A
4/17/2019	EURJPY	9:30:00 AM	126.616	126.616			N/A
4/17/2019	EURJPY	11:30:00 AM	126.762	126.758			N/A
4/17/2019	EURJPY	1:30:00 PM	126.661	126.665			N/A
4/17/2019	EURJPY	3:30:00 PM	126.563	126.558			N/A
4/17/2019	EURJPY.fx	9:30:00 AM	126.617	126.612			N/A
4/17/2019	EURJPY.fx	11:30:00 AM	126.763	126.754			N/A

4/17/2019	EURJPY.fx	1:30:00 PM	126.663	126.662			N/A
4/17/2019	EURJPY.fx	3:30:00 PM	126.566	126.556			N/A
4/17/2019	EURMXN	9:30:00 AM	21.3001	21.3061			N/A
4/17/2019	EURMXN	11:30:00 AM	21.277	21.2913			N/A
4/17/2019	EURMXN	1:30:00 PM	21.2771	21.2948			N/A
4/17/2019	EURMXN	3:30:00 PM	21.2606	21.2772			N/A
4/17/2019	EURMXN.fx	9:30:00 AM	21.3085	21.2976			N/A
4/17/2019	EURMXN.fx	11:30:00 AM	21.2852	21.2832			N/A
4/17/2019	EURMXN.fx	1:30:00 PM	21.285	21.2869			N/A
4/17/2019	EURMXN.fx	3:30:00 PM	21.2691	21.2687			N/A
4/17/2019	EURNOK	9:30:00 AM	9.5798	9.5917			N/A
4/17/2019	EURNOK	11:30:00 AM	9.5748	9.5814			N/A
4/17/2019	EURNOK	1:30:00 PM	9.5789	9.5892			N/A
4/17/2019	EURNOK	3:30:00 PM	9.5712	9.5819			N/A
4/17/2019	EURNOK.fx	9:30:00 AM	9.58509	9.58633			N/A
4/17/2019	EURNOK.fx	11:30:00 AM	9.5802	9.58191			N/A
4/17/2019	EURNOK.fx	1:30:00 PM	9.58439	9.58628			N/A
4/17/2019	EURNOK.fx	3:30:00 PM	9.57643	9.57655			N/A
4/17/2019	EURNZD	9:30:00 AM	1.67736	1.67765			N/A
4/17/2019	EURNZD	11:30:00 AM	1.67909	1.6798			N/A
4/17/2019	EURNZD	1:30:00 PM	1.67814	1.67894			N/A
4/17/2019	EURNZD	3:30:00 PM	1.6791	1.67927			N/A
4/17/2019	EURNZD.fx	9:30:00 AM	1.67777	1.67722			N/A
4/17/2019	EURNZD.fx	11:30:00 AM	1.6795	1.67937			N/A
4/17/2019	EURNZD.fx	1:30:00 PM	1.67857	1.67852			N/A
4/17/2019	EURNZD.fx	3:30:00 PM	1.67948	1.67883			N/A
4/17/2019	EURPLN	9:30:00 AM	4.2754	4.2775			N/A
4/17/2019	EURPLN	11:30:00 AM	4.271	4.2714			N/A
4/17/2019	EURPLN	1:30:00 PM	4.2699	4.2733			N/A
4/17/2019	EURPLN	3:30:00 PM	4.2698	4.2726			N/A
4/17/2019	EURPLN.fx	9:30:00 AM	4.27462	4.27832			N/A
4/17/2019	EURPLN.fx	11:30:00 AM	4.2702	4.27513			N/A
4/17/2019	EURPLN.fx	1:30:00 PM	4.2693	4.27382			N/A
4/17/2019	EURPLN.fx	3:30:00 PM	4.26924	4.27323			N/A

4/17/2019	EURRUB	9:30:00 AM					N/A
4/17/2019	EURRUB	11:30:00 AM	71.93	72.359			N/A
4/17/2019	EURRUB	1:30:00 PM	71.899	72.328			N/A
4/17/2019	EURRUB	3:30:00 PM	71.838	72.262			N/A
4/17/2019	EURSEK	9:30:00 AM	10.4468	10.4516			N/A
4/17/2019	EURSEK	11:30:00 AM	10.4418	10.4456			N/A
4/17/2019	EURSEK	1:30:00 PM	10.4364	10.4394			N/A
4/17/2019	EURSEK	3:30:00 PM	10.4356	10.4396			N/A
4/17/2019	EURSEK.fx	9:30:00 AM	10.44846	10.4499			N/A
4/17/2019	EURSEK.fx	11:30:00 AM	10.44337	10.44399			N/A
4/17/2019	EURSEK.fx	1:30:00 PM	10.43802	10.43771			N/A
4/17/2019	EURSEK.fx	3:30:00 PM	10.43717	10.43801			N/A
4/17/2019	EURSGD	9:30:00 AM	1.53	1.5307			N/A
4/17/2019	EURSGD	11:30:00 AM	1.5303	1.531			N/A
4/17/2019	EURSGD	1:30:00 PM	1.5292	1.5301			N/A
4/17/2019	EURSGD	3:30:00 PM	1.5285	1.5294			N/A
4/17/2019	EURSGD.fx	9:30:00 AM	1.53032	1.53031			N/A
4/17/2019	EURSGD.fx	11:30:00 AM	1.53063	1.53067			N/A
4/17/2019	EURSGD.fx	1:30:00 PM	1.52961	1.52962			N/A
4/17/2019	EURSGD.fx	3:30:00 PM	1.52895	1.52897			N/A
4/17/2019	EURUSD	9:30:00 AM	1.13085	1.13085			N/A
4/17/2019	EURUSD	11:30:00 AM	1.13178	1.13182			N/A
4/17/2019	EURUSD	1:30:00 PM	1.13092	1.13097			N/A
4/17/2019	EURUSD	3:30:00 PM	1.13025	1.13026			N/A
4/17/2019	EURUSD.fx	9:30:00 AM	1.13105	1.13094			N/A
4/17/2019	EURUSD.fx	11:30:00 AM	1.13197	1.13192			N/A
4/17/2019	EURUSD.fx	1:30:00 PM	1.13112	1.13106			N/A
4/17/2019	EURUSD.fx	3:30:00 PM	1.13044	1.13038			N/A
4/17/2019	EURZAR	9:30:00 AM	15.8033	15.8171			N/A
4/17/2019	EURZAR	11:30:00 AM	15.7765	15.7893			N/A
4/17/2019	EURZAR	1:30:00 PM	15.7553	15.7707			N/A
4/17/2019	EURZAR	3:30:00 PM	15.7795	15.797			N/A
4/17/2019	EURZAR.fx	9:30:00 AM	15.80298	15.81734			N/A
4/17/2019	EURZAR.fx	11:30:00 AM	15.77606	15.78951			N/A

4/17/2019	EURZAR.fx	1:30:00 PM	15.75488	15.77089			N/A
4/17/2019	EURZAR.fx	3:30:00 PM	15.7789	15.79783			N/A
4/17/2019	GBPAUD	9:30:00 AM	1.8146	1.815			N/A
4/17/2019	GBPAUD	11:30:00 AM	1.81113	1.81044			N/A
4/17/2019	GBPAUD	1:30:00 PM	1.81258	1.81338			N/A
4/17/2019	GBPAUD	3:30:00 PM	1.81418	1.81466			N/A
4/17/2019	GBPAUD.fx	9:30:00 AM	1.815	1.8146			N/A
4/17/2019	GBPAUD.fx	11:30:00 AM	1.81143	1.81032			N/A
4/17/2019	GBPAUD.fx	1:30:00 PM	1.81296	1.81298			N/A
4/17/2019	GBPAUD.fx	3:30:00 PM	1.81454	1.81426			N/A
4/17/2019	GBPCAD	9:30:00 AM	1.74095	1.74148			N/A
4/17/2019	GBPCAD	11:30:00 AM	1.737	1.73658			N/A
4/17/2019	GBPCAD	1:30:00 PM	1.73796	1.73874			N/A
4/17/2019	GBPCAD	3:30:00 PM	1.73878	1.73547			N/A
4/17/2019	GBPCAD.fx	9:30:00 AM	1.74132	1.74111			N/A
4/17/2019	GBPCAD.fx	11:30:00 AM	1.73732	1.7363			N/A
4/17/2019	GBPCAD.fx	1:30:00 PM	1.73834	1.73836			N/A
4/17/2019	GBPCAD.fx	3:30:00 PM	1.73887	1.73509			N/A
4/17/2019	GBPCHF	9:30:00 AM	1.31558	1.31572			N/A
4/17/2019	GBPCHF	11:30:00 AM	1.31519	1.31477			N/A
4/17/2019	GBPCHF	1:30:00 PM	1.31567	1.31607			N/A
4/17/2019	GBPCHF	3:30:00 PM	1.31563	1.31602			N/A
4/17/2019	GBPCHF.fx	9:30:00 AM	1.31576	1.31553			N/A
4/17/2019	GBPCHF.fx	11:30:00 AM	1.31533	1.31459			N/A
4/17/2019	GBPCHF.fx	1:30:00 PM	1.31587	1.31587			N/A
4/17/2019	GBPCHF.fx	3:30:00 PM	1.31581	1.31581			N/A
4/17/2019	GBPCZK	9:30:00 AM	29.615	29.633			N/A
4/17/2019	GBPCZK	11:30:00 AM	29.55	29.553			N/A
4/17/2019	GBPCZK	1:30:00 PM	29.569	29.59			N/A
4/17/2019	GBPCZK	3:30:00 PM	29.588	29.609			N/A
4/17/2019	GBPDKK	9:30:00 AM	8.616	8.626			N/A
4/17/2019	GBPDKK	11:30:00 AM	8.601	8.605			N/A
4/17/2019	GBPDKK	1:30:00 PM	8.608	8.619			N/A
4/17/2019	GBPDKK	3:30:00 PM	8.615	8.626			N/A

4/17/2019	GBPDKK.fx	9:30:00 AM	8.6149	8.6265			N/A
4/17/2019	GBPDKK.fx	11:30:00 AM	8.599	8.6063			N/A
4/17/2019	GBPDKK.fx	1:30:00 PM	8.6068	8.6195			N/A
4/17/2019	GBPDKK.fx	3:30:00 PM	8.6138	8.6263			N/A
4/17/2019	GBPHKD	9:30:00 AM	10.2403	10.2455			N/A
4/17/2019	GBPHKD	11:30:00 AM	10.2327	10.2294			N/A
4/17/2019	GBPHKD	1:30:00 PM	10.2335	10.2386			N/A
4/17/2019	GBPHKD	3:30:00 PM	10.2336	10.2394			N/A
4/17/2019	GBPHUF	9:30:00 AM	368.95	369.38			N/A
4/17/2019	GBPHUF	11:30:00 AM	367.34	367.51			N/A
4/17/2019	GBPHUF	1:30:00 PM	368.1	368.57			N/A
4/17/2019	GBPHUF	3:30:00 PM	368.57	369.03			N/A
4/17/2019	GBPJPY	9:30:00 AM	146.211	146.238			N/A
4/17/2019	GBPJPY	11:30:00 AM	146.128	146.061			N/A
4/17/2019	GBPJPY	1:30:00 PM	146.123	146.164			N/A
4/17/2019	GBPJPY	3:30:00 PM	146.129	146.159			N/A
4/17/2019	GBPJPY.fx	9:30:00 AM	146.23	146.219			N/A
4/17/2019	GBPJPY.fx	11:30:00 AM	146.142	146.047			N/A
4/17/2019	GBPJPY.fx	1:30:00 PM	146.14	146.146			N/A
4/17/2019	GBPJPY.fx	3:30:00 PM	146.148	146.141			N/A
4/17/2019	GBPMXN	9:30:00 AM	24.5935	24.5961			N/A
4/17/2019	GBPMXN	11:30:00 AM	24.5224	24.5159			N/A
4/17/2019	GBPMXN	1:30:00 PM	24.5462	24.5596			N/A
4/17/2019	GBPMXN	3:30:00 PM	24.5434	24.5545			N/A
4/17/2019	GBPNOK	9:30:00 AM	11.0651	11.0752			N/A
4/17/2019	GBPNOK	11:30:00 AM	11.0399	11.0425			N/A
4/17/2019	GBPNOK	1:30:00 PM	11.0535	11.0646			N/A
4/17/2019	GBPNOK	3:30:00 PM	11.0536	11.0622			N/A
4/17/2019	GBPNOK.fx	9:30:00 AM	11.06967	11.07053			N/A
4/17/2019	GBPNOK.fx	11:30:00 AM	11.04462	11.03826			N/A
4/17/2019	GBPNOK.fx	1:30:00 PM	11.05825	11.05982			N/A
4/17/2019	GBPNOK.fx	3:30:00 PM	11.05826	11.05757			N/A
4/17/2019	GBPNZD	9:30:00 AM	1.93717	1.93743			N/A
4/17/2019	GBPNZD	11:30:00 AM	1.93596	1.93518			N/A

4/17/2019	GBPNZD	1:30:00 PM	1.93638	1.93705			N/A
4/17/2019	GBPNZD	3:30:00 PM	1.93899	1.93897			N/A
4/17/2019	GBPNZD.fx	9:30:00 AM	1.93754	1.93708			N/A
4/17/2019	GBPNZD.fx	11:30:00 AM	1.93624	1.93497			N/A
4/17/2019	GBPNZD.fx	1:30:00 PM	1.93673	1.93668			N/A
4/17/2019	GBPNZD.fx	3:30:00 PM	1.93933	1.93858			N/A
4/17/2019	GBPPLN	9:30:00 AM	4.9382	4.9391			N/A
4/17/2019	GBPPLN	11:30:00 AM	4.9251	4.9236			N/A
4/17/2019	GBPPLN	1:30:00 PM	4.9278	4.9293			N/A
4/17/2019	GBPPLN	3:30:00 PM	4.9313	4.9325			N/A
4/17/2019	GBPPLN.fx	9:30:00 AM	4.93595	4.94128			N/A
4/17/2019	GBPPLN.fx	11:30:00 AM	4.92282	4.92597			N/A
4/17/2019	GBPPLN.fx	1:30:00 PM	4.92561	4.93154			N/A
4/17/2019	GBPPLN.fx	3:30:00 PM	4.92915	4.93471			N/A
4/17/2019	GBPSEK	9:30:00 AM	12.0639	12.0714			N/A
4/17/2019	GBPSEK	11:30:00 AM	12.0371	12.0364			N/A
4/17/2019	GBPSEK	1:30:00 PM	12.0396	12.0464			N/A
4/17/2019	GBPSEK	3:30:00 PM	12.0482	12.0566			N/A
4/17/2019	GBPSEK.fx	9:30:00 AM	12.06023	12.07497			N/A
4/17/2019	GBPSEK.fx	11:30:00 AM	12.03304	12.04043			N/A
4/17/2019	GBPSEK.fx	1:30:00 PM	12.03588	12.04984			N/A
4/17/2019	GBPSEK.fx	3:30:00 PM	12.04448	12.06033			N/A
4/17/2019	GBPSGD	9:30:00 AM	1.767	1.7677			N/A
4/17/2019	GBPSGD	11:30:00 AM	1.7643	1.7637			N/A
4/17/2019	GBPSGD	1:30:00 PM	1.7645	1.7653			N/A
4/17/2019	GBPSGD	3:30:00 PM	1.7652	1.7659			N/A
4/17/2019	GBPSGD.fx	9:30:00 AM	1.76516	1.76954			N/A
4/17/2019	GBPSGD.fx	11:30:00 AM	1.76244	1.76567			N/A
4/17/2019	GBPSGD.fx	1:30:00 PM	1.76264	1.76713			N/A
4/17/2019	GBPSGD.fx	3:30:00 PM	1.76333	1.76777			N/A
4/17/2019	GBPUSD	9:30:00 AM	1.3062	1.30617			N/A
4/17/2019	GBPUSD	11:30:00 AM	1.30504	1.30413			N/A
4/17/2019	GBPUSD	1:30:00 PM	1.30503	1.30507			N/A
4/17/2019	GBPUSD	3:30:00 PM	1.30529	1.3053			N/A

4/17/2019	GBPUSD.fx	9:30:00 AM	1.30625	1.30612			N/A
4/17/2019	GBPUSD.fx	11:30:00 AM	1.30505	1.30407			N/A
4/17/2019	GBPUSD.fx	1:30:00 PM	1.30507	1.30501			N/A
4/17/2019	GBPUSD.fx	3:30:00 PM	1.30534	1.30527			N/A
4/17/2019	GBPZAR	9:30:00 AM	18.2476	18.2691			N/A
4/17/2019	GBPZAR	11:30:00 AM	18.1858	18.1955			N/A
4/17/2019	GBPZAR	1:30:00 PM	18.1736	18.1983			N/A
4/17/2019	GBPZAR	3:30:00 PM	18.2177	18.2439			N/A
4/17/2019	GBPZAR.fx	9:30:00 AM	18.255	18.2605			N/A
4/17/2019	GBPZAR.fx	11:30:00 AM	18.1917	18.1888			N/A
4/17/2019	GBPZAR.fx	1:30:00 PM	18.1809	18.1911			N/A
4/17/2019	GBPZAR.fx	3:30:00 PM	18.2248	18.237			N/A
4/17/2019	GOLD	9:30:00 AM	1279.21	1279.46			N/A
4/17/2019	GOLD	11:30:00 AM	1278.28	1278.54			N/A
4/17/2019	GOLD	1:30:00 PM	1276.55	1276.77			N/A
4/17/2019	GOLD	3:30:00 PM	1276.29	1276.06			N/A
4/17/2019	HKDJPY	9:30:00 AM	14.28	14.28			N/A
4/17/2019	HKDJPY	11:30:00 AM	14.27	14.28			N/A
4/17/2019	HKDJPY	1:30:00 PM	14.28	14.29			N/A
4/17/2019	HKDJPY	3:30:00 PM	14.27	14.28			N/A
4/17/2019	HKDJPY.fx	9:30:00 AM	14.269	14.275			N/A
4/17/2019	HKDJPY.fx	11:30:00 AM	14.27	14.276			N/A
4/17/2019	HKDJPY.fx	1:30:00 PM	14.27	14.278			N/A
4/17/2019	HKDJPY.fx	3:30:00 PM	14.267	14.275			N/A
4/17/2019	HUFJPY	9:30:00 AM	0.3964	0.3967			N/A
4/17/2019	HUFJPY	11:30:00 AM	0.3976	0.3979			N/A
4/17/2019	HUFJPY	1:30:00 PM	0.397	0.3973			N/A
4/17/2019	HUFJPY	3:30:00 PM	0.3962	0.3965			N/A
4/17/2019	JP225.i	9:30:00 AM	22259.65	22274.65			N/A
4/17/2019	JP225.i	11:30:00 AM	22265.48	22285.48			N/A
4/17/2019	JP225.i	1:30:00 PM	22309.65	22324.65			N/A
4/17/2019	JP225.i	3:30:00 PM	22317.15	22332.98			N/A
4/17/2019	MXNJPY	9:30:00 AM	5.94	5.95			N/A
4/17/2019	MXNJPY	11:30:00 AM	5.96	5.97			N/A

4/17/2019	MXNJPY	1:30:00 PM	5.95	5.97			N/A
4/17/2019	MXNJPY	3:30:00 PM					N/A
4/17/2019	NASDAQ.i	9:30:00 AM					N/A
4/17/2019	NASDAQ.i	11:30:00 AM					N/A
4/17/2019	NASDAQ.i	1:30:00 PM					N/A
4/17/2019	NASDAQ.i	3:30:00 PM					N/A
4/17/2019	NOKJPY	9:30:00 AM	13.2	13.23			N/A
4/17/2019	NOKJPY	11:30:00 AM	13.22	13.25			N/A
4/17/2019	NOKJPY	1:30:00 PM	13.21	13.23			N/A
4/17/2019	NOKJPY	3:30:00 PM	13.21	13.24			N/A
4/17/2019	NOKJPY.fx	9:30:00 AM	13.206	13.213			N/A
4/17/2019	NOKJPY.fx	11:30:00 AM	13.228	13.234			N/A
4/17/2019	NOKJPY.fx	1:30:00 PM	13.211	13.219			N/A
4/17/2019	NOKJPY.fx	3:30:00 PM	13.213	13.219			N/A
4/17/2019	NZDCAD	9:30:00 AM	0.89854	0.89917			N/A
4/17/2019	NZDCAD	11:30:00 AM	0.89706	0.89767			N/A
4/17/2019	NZDCAD	1:30:00 PM	0.89724	0.89793			N/A
4/17/2019	NZDCAD	3:30:00 PM	0.89654	0.89528			N/A
4/17/2019	NZDCAD.fx	9:30:00 AM	0.89886	0.89883			N/A
4/17/2019	NZDCAD.fx	11:30:00 AM	0.8974	0.89733			N/A
4/17/2019	NZDCAD.fx	1:30:00 PM	0.89757	0.8976			N/A
4/17/2019	NZDCAD.fx	3:30:00 PM	0.89666	0.89495			N/A
4/17/2019	NZDCHF	9:30:00 AM	0.6789	0.67929			N/A
4/17/2019	NZDCHF	11:30:00 AM	0.67903	0.67973			N/A
4/17/2019	NZDCHF	1:30:00 PM	0.67908	0.67983			N/A
4/17/2019	NZDCHF	3:30:00 PM	0.6784	0.67886			N/A
4/17/2019	NZDCHF.fx	9:30:00 AM	0.67923	0.67893			N/A
4/17/2019	NZDCHF.fx	11:30:00 AM	0.67936	0.67938			N/A
4/17/2019	NZDCHF.fx	1:30:00 PM	0.67942	0.67947			N/A
4/17/2019	NZDCHF.fx	3:30:00 PM	0.67873	0.67853			N/A
4/17/2019	NZDCZK	9:30:00 AM	15.286	15.294			N/A
4/17/2019	NZDCZK	11:30:00 AM	15.263	15.273			N/A
4/17/2019	NZDCZK	1:30:00 PM	15.267	15.278			N/A
4/17/2019	NZDCZK	3:30:00 PM	15.261	15.267			N/A

4/17/2019	NZDDKK	9:30:00 AM	4.448	4.45			N/A
4/17/2019	NZDDKK	11:30:00 AM	4.442	4.444			N/A
4/17/2019	NZDDKK	1:30:00 PM					N/A
4/17/2019	NZDDKK	3:30:00 PM	4.442	4.446			N/A
4/17/2019	NZDHKD	9:30:00 AM	5.2857	5.2872			N/A
4/17/2019	NZDHKD	11:30:00 AM	5.2844	5.2872			N/A
4/17/2019	NZDHKD	1:30:00 PM	5.2836	5.2862			N/A
4/17/2019	NZDHKD	3:30:00 PM	5.2782	5.2792			N/A
4/17/2019	NZDHUF	9:30:00 AM	190.43	190.68			N/A
4/17/2019	NZDHUF	11:30:00 AM	189.79	189.97			N/A
4/17/2019	NZDHUF	1:30:00 PM	190.03	190.31			N/A
4/17/2019	NZDHUF	3:30:00 PM	190.08	190.3			N/A
4/17/2019	NZDJPY	9:30:00 AM	75.459	75.5			N/A
4/17/2019	NZDJPY	11:30:00 AM	75.444	75.516			N/A
4/17/2019	NZDJPY	1:30:00 PM	75.426	75.493			N/A
4/17/2019	NZDJPY	3:30:00 PM	75.35	75.386			N/A
4/17/2019	NZDJPY.fx	9:30:00 AM	75.49	75.466			N/A
4/17/2019	NZDJPY.fx	11:30:00 AM	75.474	75.483			N/A
4/17/2019	NZDJPY.fx	1:30:00 PM	75.457	75.46			N/A
4/17/2019	NZDJPY.fx	3:30:00 PM	75.38	75.355			N/A
4/17/2019	NZDMXN	9:30:00 AM	12.6931	12.695			N/A
4/17/2019	NZDMXN	11:30:00 AM	12.6652	12.6679			N/A
4/17/2019	NZDMXN	1:30:00 PM	12.6731	12.6787			N/A
4/17/2019	NZDMXN	3:30:00 PM	12.6589	12.6591			N/A
4/17/2019	NZDNOK	9:30:00 AM	5.7099	5.7125			N/A
4/17/2019	NZDNOK	11:30:00 AM	5.6998	5.7015			N/A
4/17/2019	NZDNOK	1:30:00 PM	5.7062	5.7098			N/A
4/17/2019	NZDNOK	3:30:00 PM	5.6976	5.6981			N/A
4/17/2019	NZDPLN	9:30:00 AM	2.548	2.5493			N/A
4/17/2019	NZDPLN	11:30:00 AM	2.5424	2.5428			N/A
4/17/2019	NZDPLN	1:30:00 PM	2.5437	2.545			N/A
4/17/2019	NZDPLN	3:30:00 PM	2.542	2.5421			N/A
4/17/2019	NZDSEK	9:30:00 AM	6.2238	6.2286			N/A
4/17/2019	NZDSEK	11:30:00 AM	6.2123	6.2189			N/A

4/17/2019	NZDSEK	1:30:00 PM	6.213	6.2188			N/A
4/17/2019	NZDSEK	3:30:00 PM	6.2106	6.2153			N/A
4/17/2019	NZDSGD	9:30:00 AM	0.9121	0.9125			N/A
4/17/2019	NZDSGD	11:30:00 AM	0.9112	0.9118			N/A
4/17/2019	NZDSGD	1:30:00 PM	0.911	0.9116			N/A
4/17/2019	NZDSGD	3:30:00 PM	0.9104	0.9107			N/A
4/17/2019	NZDSGD.fx	9:30:00 AM	0.9121	0.91241			N/A
4/17/2019	NZDSGD.fx	11:30:00 AM	0.91117	0.91171			N/A
4/17/2019	NZDSGD.fx	1:30:00 PM	0.91098	0.91154			N/A
4/17/2019	NZDSGD.fx	3:30:00 PM	0.9104	0.9107			N/A
4/17/2019	NZDUSD	9:30:00 AM	0.67424	0.6742			N/A
4/17/2019	NZDUSD	11:30:00 AM	0.67391	0.67404			N/A
4/17/2019	NZDUSD	1:30:00 PM	0.67374	0.67383			N/A
4/17/2019	NZDUSD	3:30:00 PM	0.67319	0.67304			N/A
4/17/2019	NZDUSD.fx	9:30:00 AM	0.67431	0.67414			N/A
4/17/2019	NZDUSD.fx	11:30:00 AM	0.67398	0.67405			N/A
4/17/2019	NZDUSD.fx	1:30:00 PM	0.67381	0.67385			N/A
4/17/2019	NZDUSD.fx	3:30:00 PM	0.67325	0.67305			N/A
4/17/2019	NZDZAR	9:30:00 AM	9.4117	9.4267			N/A
4/17/2019	NZDZAR	11:30:00 AM	9.3827	9.399			N/A
4/17/2019	NZDZAR	1:30:00 PM	9.3787	9.3934			N/A
4/17/2019	NZDZAR	3:30:00 PM	9.3871	9.4003			N/A
4/17/2019	SEKJPY	9:30:00 AM	12.12	12.13			N/A
4/17/2019	SEKJPY	11:30:00 AM	12.14	12.15			N/A
4/17/2019	SEKJPY	1:30:00 PM	12.14	12.14			N/A
4/17/2019	SEKJPY	3:30:00 PM	12.13	12.13			N/A
4/17/2019	SEKJPY.fx	9:30:00 AM	12.108	12.126			N/A
4/17/2019	SEKJPY.fx	11:30:00 AM	12.128	12.147			N/A
4/17/2019	SEKJPY.fx	1:30:00 PM	12.126	12.143			N/A
4/17/2019	SEKJPY.fx	3:30:00 PM	12.116	12.134			N/A
4/17/2019	SGDJPY	9:30:00 AM	82.76	82.74			N/A
4/17/2019	SGDJPY	11:30:00 AM	82.81	82.82			N/A
4/17/2019	SGDJPY	1:30:00 PM	82.83	82.82			N/A
4/17/2019	SGDJPY	3:30:00 PM	82.81	82.78			N/A

4/17/2019	SILVER	9:30:00 AM	14.87	15.25			N/A
4/17/2019	SILVER	11:30:00 AM	14.89	15.28			N/A
4/17/2019	SILVER	1:30:00 PM	14.83	15.2			N/A
4/17/2019	SILVER	3:30:00 PM	14.85	15.21			N/A
4/17/2019	SPX500.i	9:30:00 AM	2911.89	2912.69			N/A
4/17/2019	SPX500.i	11:30:00 AM	2912.89	2913.94			N/A
4/17/2019	SPX500.i	1:30:00 PM	2913.39	2914.69			N/A
4/17/2019	SPX500.i	3:30:00 PM	2915.64	2916.69			N/A
4/17/2019	UK100.i	9:30:00 AM	7472.85	7474.35			N/A
4/17/2019	UK100.i	11:30:00 AM	7463.18	7462.6			N/A
4/17/2019	UK100.i	1:30:00 PM	7472.6	7474.35			N/A
4/17/2019	UK100.i	3:30:00 PM	7471.85	7472.35			N/A
4/17/2019	USDCAD	9:30:00 AM	1.33328	1.33321	500	500	N/A
4/17/2019	USDCAD	11:30:00 AM	1.33152	1.33152			N/A
4/17/2019	USDCAD	1:30:00 PM	1.33214	1.33224			N/A
4/17/2019	USDCAD	3:30:00 PM	1.3325	1.32936	10000	30000	N/A
4/17/2019	USDCAD.fx	9:30:00 AM	1.33331	1.33317			N/A
4/17/2019	USDCAD.fx	11:30:00 AM	1.33154	1.33149			N/A
4/17/2019	USDCAD.fx	1:30:00 PM	1.33216	1.3322			N/A
4/17/2019	USDCAD.fx	3:30:00 PM	1.33233	1.32933			N/A
4/17/2019	USDCHF	9:30:00 AM	1.00728	1.00723			N/A
4/17/2019	USDCHF	11:30:00 AM	1.00793	1.008			N/A
4/17/2019	USDCHF	1:30:00 PM	1.00827	1.00833			N/A
4/17/2019	USDCHF	3:30:00 PM	1.00808	1.00808			N/A
4/17/2019	USDCHF.fx	9:30:00 AM	1.00732	1.00717			N/A
4/17/2019	USDCHF.fx	11:30:00 AM	1.00796	1.00795			N/A
4/17/2019	USDCHF.fx	1:30:00 PM	1.00832	1.00827			N/A
4/17/2019	USDCHF.fx	3:30:00 PM	1.00813	1.00802			N/A
4/17/2019	USDCZK	9:30:00 AM	22.688	22.708			N/A
4/17/2019	USDCZK	11:30:00 AM	22.664	22.683			N/A
4/17/2019	USDCZK	1:30:00 PM	22.673	22.695			N/A
4/17/2019	USDCZK	3:30:00 PM	22.687	22.708			N/A
4/17/2019	USDCZK.fx	9:30:00 AM	22.6957	22.7001			N/A
4/17/2019	USDCZK.fx	11:30:00 AM	22.6728	22.674			N/A

4/17/2019	USDCZK.fx	1:30:00 PM	22.6824	22.6862			N/A
4/17/2019	USDCZK.fx	3:30:00 PM	22.6953	22.6991			N/A
4/17/2019	USDDKK	9:30:00 AM	6.5986	6.602			N/A
4/17/2019	USDDKK	11:30:00 AM	6.5931	6.5967			N/A
4/17/2019	USDDKK	1:30:00 PM	6.5983	6.602			N/A
4/17/2019	USDDKK	3:30:00 PM	6.6024	6.606			N/A
4/17/2019	USDDKK.fx	9:30:00 AM	6.59911	6.59997			N/A
4/17/2019	USDDKK.fx	11:30:00 AM	6.59354	6.5947			N/A
4/17/2019	USDDKK.fx	1:30:00 PM	6.59886	6.60007			N/A
4/17/2019	USDDKK.fx	3:30:00 PM	6.60301	6.60401			N/A
4/17/2019	USDHKD	9:30:00 AM	7.8434	7.8428			N/A
4/17/2019	USDHKD	11:30:00 AM	7.8452	7.8456			N/A
4/17/2019	USDHKD	1:30:00 PM	7.8449	7.845			N/A
4/17/2019	USDHKD	3:30:00 PM	7.8447	7.8447			N/A
4/17/2019	USDHKD.fx	9:30:00 AM	7.84335	7.84381			N/A
4/17/2019	USDHKD.fx	11:30:00 AM	7.84515	7.84569			N/A
4/17/2019	USDHKD.fx	1:30:00 PM	7.84479	7.84504			N/A
4/17/2019	USDHKD.fx	3:30:00 PM	7.8446	7.84522			N/A
4/17/2019	USDHUF	9:30:00 AM	282.54	282.95			N/A
4/17/2019	USDHUF	11:30:00 AM	281.73	282.16			N/A
4/17/2019	USDHUF	1:30:00 PM	282.13	282.58			N/A
4/17/2019	USDHUF	3:30:00 PM	282.58	283.04			N/A
4/17/2019	USDHUF.fx	9:30:00 AM	282.726	282.76			N/A
4/17/2019	USDHUF.fx	11:30:00 AM	281.924	281.966			N/A
4/17/2019	USDHUF.fx	1:30:00 PM	282.333	282.395			N/A
4/17/2019	USDHUF.fx	3:30:00 PM	282.774	282.829			N/A
4/17/2019	USDINR	9:30:00 AM					N/A
4/17/2019	USDINR	11:30:00 AM					N/A
4/17/2019	USDINR	1:30:00 PM					N/A
4/17/2019	USDINR	3:30:00 PM					N/A
4/17/2019	USDJPY	9:30:00 AM	111.98	111.984			N/A
4/17/2019	USDJPY	11:30:00 AM	112.012	112.018	2000	2000	N/A
4/17/2019	USDJPY	1:30:00 PM	112.012	112.025			N/A
4/17/2019	USDJPY	3:30:00 PM	111.989	112.001			N/A

4/17/2019	USDJPY.fx	9:30:00 AM	111.986	111.977			N/A
4/17/2019	USDJPY.fx	11:30:00 AM	112.017	112.012			N/A
4/17/2019	USDJPY.fx	1:30:00 PM	112.018	112.018			N/A
4/17/2019	USDJPY.fx	3:30:00 PM	111.995	111.994			N/A
4/17/2019	USDMXN	9:30:00 AM	18.837	18.833			N/A
4/17/2019	USDMXN	11:30:00 AM	18.799	18.805			N/A
4/17/2019	USDMXN	1:30:00 PM	18.817	18.822			N/A
4/17/2019	USDMXN	3:30:00 PM	18.812	18.818			N/A
4/17/2019	USDMXN.f	9:30:00 AM	18.8414	18.8286			N/A
4/17/2019	USDMXN.f	11:30:00 AM	18.8046	18.8016			N/A
4/17/2019	USDMXN.f	1:30:00 PM	18.8199	18.8196			N/A
4/17/2019	USDMXN.f	3:30:00 PM	18.815	18.8148			N/A
4/17/2019	USDNOK	9:30:00 AM	8.4709	8.4788			N/A
4/17/2019	USDNOK	11:30:00 AM	8.4597	8.4679			N/A
4/17/2019	USDNOK	1:30:00 PM	8.4697	8.4781			N/A
4/17/2019	USDNOK	3:30:00 PM	8.4678	8.4748			N/A
4/17/2019	USDNOK.f	9:30:00 AM	8.47466	8.47436			N/A
4/17/2019	USDNOK.f	11:30:00 AM	8.46358	8.46345			N/A
4/17/2019	USDNOK.f	1:30:00 PM	8.47369	8.47365			N/A
4/17/2019	USDNOK.f	3:30:00 PM	8.47156	8.47049			N/A
4/17/2019	USDPLN	9:30:00 AM	3.781	3.7817			N/A
4/17/2019	USDPLN	11:30:00 AM	3.7741	3.7755			N/A
4/17/2019	USDPLN	1:30:00 PM	3.7762	3.7776			N/A
4/17/2019	USDPLN	3:30:00 PM	3.7782	3.7792			N/A
4/17/2019	USDPLN.f	9:30:00 AM	3.7801	3.78263			N/A
4/17/2019	USDPLN.f	11:30:00 AM	3.77327	3.77637			N/A
4/17/2019	USDPLN.f	1:30:00 PM	3.77548	3.77827			N/A
4/17/2019	USDPLN.f	3:30:00 PM	3.77727	3.78			N/A
4/17/2019	USDRUB	9:30:00 AM					N/A
4/17/2019	USDRUB	11:30:00 AM	63.677	64.058			N/A
4/17/2019	USDRUB	1:30:00 PM	63.704	64.08			N/A
4/17/2019	USDRUB	3:30:00 PM	63.687	64.061			N/A
4/17/2019	USDSEK	9:30:00 AM	9.2365	9.2404			N/A
4/17/2019	USDSEK	11:30:00 AM	9.2236	9.2277			N/A

4/17/2019	USDSEK	1:30:00 PM	9.2266	9.2288			N/A
4/17/2019	USDSEK	3:30:00 PM	9.2317	9.2348			N/A
4/17/2019	USDSEK.fx	9:30:00 AM	9.239	9.2386			N/A
4/17/2019	USDSEK.fx	11:30:00 AM	9.22603	9.22584			N/A
4/17/2019	USDSEK.fx	1:30:00 PM	9.22929	9.22701			N/A
4/17/2019	USDSEK.fx	3:30:00 PM	9.23392	9.2331			N/A
4/17/2019	USDSGD	9:30:00 AM	1.3529	1.3533			N/A
4/17/2019	USDSGD	11:30:00 AM	1.3521	1.3525			N/A
4/17/2019	USDSGD	1:30:00 PM	1.3522	1.3526			N/A
4/17/2019	USDSGD	3:30:00 PM	1.3523	1.3525			N/A
4/17/2019	USDSGD.fx	9:30:00 AM	1.35285	1.35331			N/A
4/17/2019	USDSGD.fx	11:30:00 AM	1.352	1.35251			N/A
4/17/2019	USDSGD.fx	1:30:00 PM	1.35212	1.3526			N/A
4/17/2019	USDSGD.fx	3:30:00 PM	1.35236	1.35285			N/A
4/17/2019	USDZAR	9:30:00 AM	13.9715	13.9847			N/A
4/17/2019	USDZAR	11:30:00 AM	13.9365	13.9494			N/A
4/17/2019	USDZAR	1:30:00 PM	13.9283	13.9434			N/A
4/17/2019	USDZAR	3:30:00 PM	13.9584	13.9748			N/A
4/17/2019	USDZAR.fx	9:30:00 AM					N/A
4/17/2019	USDZAR.fx	11:30:00 AM					N/A
4/17/2019	USDZAR.fx	1:30:00 PM					N/A
4/17/2019	USDZAR.fx	3:30:00 PM					N/A
4/17/2019	XAUUSD	9:30:00 AM	1279.2	1279.46			N/A
4/17/2019	XAUUSD	11:30:00 AM	1278.28	1278.54			N/A
4/17/2019	XAUUSD	1:30:00 PM	1276.58	1276.77			N/A
4/17/2019	XAUUSD	3:30:00 PM	1276.28	1276.06			N/A
4/17/2019	ZARJPY	9:30:00 AM	7.99	8.01			N/A
4/17/2019	ZARJPY	11:30:00 AM	8.01	8.03			N/A
4/17/2019	ZARJPY	1:30:00 PM	8.01	8.04			N/A
4/17/2019	ZARJPY	3:30:00 PM	8	8.02			N/A
4/17/2019	ZARJPY.fx	9:30:00 AM	8.007	8.009			N/A
4/17/2019	ZARJPY.fx	11:30:00 AM	8.03	8.033			N/A
4/17/2019	ZARJPY.fx	1:30:00 PM	8.034	8.037			N/A
4/17/2019	ZARJPY.fx	3:30:00 PM	8.014	8.018			N/A

4/18/2019	#AA	9:30:00 AM					N/A
4/18/2019	#AA	11:30:00 AM					N/A
4/18/2019	#AA	1:30:00 PM					N/A
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4/18/2019	#S	3:30:00 PM					N/A
4/18/2019	#SBUX	9:30:00 AM					N/A
4/18/2019	#SBUX	11:30:00 AM					N/A
4/18/2019	#SBUX	1:30:00 PM					N/A
4/18/2019	#SBUX	3:30:00 PM					N/A
4/18/2019	#SNE	9:30:00 AM					N/A
4/18/2019	#SNE	11:30:00 AM					N/A
4/18/2019	#SNE	1:30:00 PM					N/A
4/18/2019	#SNE	3:30:00 PM					N/A
4/18/2019	#SPY	9:30:00 AM					N/A
4/18/2019	#SPY	11:30:00 AM					N/A
4/18/2019	#SPY	1:30:00 PM					N/A
4/18/2019	#SPY	3:30:00 PM					N/A
4/18/2019	#T	9:30:00 AM					N/A
4/18/2019	#T	11:30:00 AM					N/A
4/18/2019	#T	1:30:00 PM					N/A
4/18/2019	#T	3:30:00 PM					N/A
4/18/2019	#TEVA	9:30:00 AM					N/A
4/18/2019	#TEVA	11:30:00 AM					N/A
4/18/2019	#TEVA	1:30:00 PM					N/A
4/18/2019	#TEVA	3:30:00 PM					N/A
4/18/2019	#TRI	9:30:00 AM					N/A
4/18/2019	#TRI	11:30:00 AM					N/A

4/18/2019	#TRI	1:30:00 PM					N/A
4/18/2019	#TRI	3:30:00 PM					N/A
4/18/2019	#TRV	9:30:00 AM					N/A
4/18/2019	#TRV	11:30:00 AM					N/A
4/18/2019	#TRV	1:30:00 PM					N/A
4/18/2019	#TRV	3:30:00 PM					N/A
4/18/2019	#TSCO	9:30:00 AM					N/A
4/18/2019	#TSCO	11:30:00 AM					N/A
4/18/2019	#TSCO	1:30:00 PM					N/A
4/18/2019	#TSCO	3:30:00 PM					N/A
4/18/2019	#TSLA	9:30:00 AM					N/A
4/18/2019	#TSLA	11:30:00 AM					N/A
4/18/2019	#TSLA	1:30:00 PM					N/A
4/18/2019	#TSLA	3:30:00 PM					N/A
4/18/2019	#TWTR	9:30:00 AM					N/A
4/18/2019	#TWTR	11:30:00 AM					N/A
4/18/2019	#TWTR	1:30:00 PM					N/A
4/18/2019	#TWTR	3:30:00 PM					N/A
4/18/2019	#UBS	9:30:00 AM					N/A
4/18/2019	#UBS	11:30:00 AM					N/A
4/18/2019	#UBS	1:30:00 PM					N/A
4/18/2019	#UBS	3:30:00 PM					N/A
4/18/2019	#UL	9:30:00 AM					N/A
4/18/2019	#UL	11:30:00 AM					N/A
4/18/2019	#UL	1:30:00 PM					N/A
4/18/2019	#UL	3:30:00 PM					N/A
4/18/2019	#UPS	9:30:00 AM					N/A
4/18/2019	#UPS	11:30:00 AM					N/A
4/18/2019	#UPS	1:30:00 PM					N/A
4/18/2019	#UPS	3:30:00 PM					N/A
4/18/2019	#UTX	9:30:00 AM					N/A
4/18/2019	#UTX	11:30:00 AM					N/A
4/18/2019	#UTX	1:30:00 PM					N/A
4/18/2019	#UTX	3:30:00 PM					N/A

4/18/2019	#V	9:30:00 AM					N/A
4/18/2019	#V	11:30:00 AM					N/A
4/18/2019	#V	1:30:00 PM					N/A
4/18/2019	#V	3:30:00 PM					N/A
4/18/2019	#VOD	9:30:00 AM					N/A
4/18/2019	#VOD	11:30:00 AM					N/A
4/18/2019	#VOD	1:30:00 PM					N/A
4/18/2019	#VOD	3:30:00 PM					N/A
4/18/2019	#VZ	9:30:00 AM					N/A
4/18/2019	#VZ	11:30:00 AM					N/A
4/18/2019	#VZ	1:30:00 PM					N/A
4/18/2019	#VZ	3:30:00 PM					N/A
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4/18/2019	#WDC	1:30:00 PM					N/A
4/18/2019	#WDC	3:30:00 PM					N/A
4/18/2019	#WFC	9:30:00 AM					N/A
4/18/2019	#WFC	11:30:00 AM					N/A
4/18/2019	#WFC	1:30:00 PM					N/A
4/18/2019	#WFC	3:30:00 PM					N/A
4/18/2019	#WMT	9:30:00 AM					N/A
4/18/2019	#WMT	11:30:00 AM					N/A
4/18/2019	#WMT	1:30:00 PM					N/A
4/18/2019	#WMT	3:30:00 PM					N/A
4/18/2019	#XOM	9:30:00 AM					N/A
4/18/2019	#XOM	11:30:00 AM					N/A
4/18/2019	#XOM	1:30:00 PM					N/A
4/18/2019	#XOM	3:30:00 PM					N/A
4/18/2019	#YHOO	9:30:00 AM					N/A
4/18/2019	#YHOO	11:30:00 AM					N/A
4/18/2019	#YHOO	1:30:00 PM					N/A
4/18/2019	#YHOO	3:30:00 PM					N/A
4/18/2019	#ZNGA	9:30:00 AM					N/A
4/18/2019	#ZNGA	11:30:00 AM					N/A

4/18/2019	#ZNGA	1:30:00 PM					N/A
4/18/2019	#ZNGA	3:30:00 PM					N/A
4/18/2019	AUDCAD	9:30:00 AM	0.95943	0.96016			N/A
4/18/2019	AUDCAD	11:30:00 AM	0.95677	0.95746			N/A
4/18/2019	AUDCAD	1:30:00 PM	0.95693	0.9574			N/A
4/18/2019	AUDCAD	3:30:00 PM	0.95791	0.95742			N/A
4/18/2019	AUDCAD.fx	9:30:00 AM	0.95977	0.95981			N/A
4/18/2019	AUDCAD.fx	11:30:00 AM	0.95709	0.95711			N/A
4/18/2019	AUDCAD.fx	1:30:00 PM	0.95729	0.95703			N/A
4/18/2019	AUDCAD.fx	3:30:00 PM	0.95804	0.95727			N/A
4/18/2019	AUDCHF	9:30:00 AM	0.72529	0.72597			N/A
4/18/2019	AUDCHF	11:30:00 AM	0.72343	0.72399			N/A
4/18/2019	AUDCHF	1:30:00 PM	0.72354	0.72403			N/A
4/18/2019	AUDCHF	3:30:00 PM	0.72468	0.72464			N/A
4/18/2019	AUDCHF.fx	9:30:00 AM	0.72563	0.72561			N/A
4/18/2019	AUDCHF.fx	11:30:00 AM	0.72376	0.72366			N/A
4/18/2019	AUDCHF.fx	1:30:00 PM	0.72389	0.72368			N/A
4/18/2019	AUDCHF.fx	3:30:00 PM	0.72498	0.72429			N/A
4/18/2019	AUDCZK	9:30:00 AM	16.293	16.305			N/A
4/18/2019	AUDCZK	11:30:00 AM	16.325	16.338			N/A
4/18/2019	AUDCZK	1:30:00 PM	16.32	16.331			N/A
4/18/2019	AUDCZK	3:30:00 PM	16.327	16.332			N/A
4/18/2019	AUDDKK	9:30:00 AM	4.7447	4.7496			N/A
4/18/2019	AUDDKK	11:30:00 AM	4.7492	4.7537			N/A
4/18/2019	AUDDKK	1:30:00 PM	4.748	4.7517			N/A
4/18/2019	AUDDKK	3:30:00 PM	4.7515	4.753			N/A
4/18/2019	AUDHKD	9:30:00 AM	5.6338	5.6376			N/A
4/18/2019	AUDHKD	11:30:00 AM	5.6156	5.6187			N/A
4/18/2019	AUDHKD	1:30:00 PM	5.6139	5.6157			N/A
4/18/2019	AUDHKD	3:30:00 PM	5.6102	5.6141			N/A
4/18/2019	AUDHUF	9:30:00 AM					N/A
4/18/2019	AUDHUF	11:30:00 AM	203.46	203.61			N/A
4/18/2019	AUDHUF	1:30:00 PM	203.5	203.66			N/A
4/18/2019	AUDHUF	3:30:00 PM	203.55	203.61			N/A

4/18/2019	AUDJPY	9:30:00 AM	80.361	80.431			N/A
4/18/2019	AUDJPY	11:30:00 AM	80.077	80.147			N/A
4/18/2019	AUDJPY	1:30:00 PM	80.09	80.134			N/A
4/18/2019	AUDJPY	3:30:00 PM	80.104	80.119			N/A
4/18/2019	AUDJPY.fx	9:30:00 AM	80.396	80.396			N/A
4/18/2019	AUDJPY.fx	11:30:00 AM	80.11	80.107			N/A
4/18/2019	AUDJPY.fx	1:30:00 PM	80.123	80.098			N/A
4/18/2019	AUDJPY.fx	3:30:00 PM	80.128	80.084			N/A
4/18/2019	AUDMXN	9:30:00 AM					N/A
4/18/2019	AUDMXN	11:30:00 AM	13.5215	13.5295			N/A
4/18/2019	AUDMXN	1:30:00 PM	13.5013	13.5088			N/A
4/18/2019	AUDMXN	3:30:00 PM	13.4828	13.4901			N/A
4/18/2019	AUDNOK	9:30:00 AM	6.0986	6.1037			N/A
4/18/2019	AUDNOK	11:30:00 AM	6.1274	6.1291			N/A
4/18/2019	AUDNOK	1:30:00 PM	6.1089	6.1125			N/A
4/18/2019	AUDNOK	3:30:00 PM	6.1076	6.1084			N/A
4/18/2019	AUDNOK.fx	9:30:00 AM	6.1001	6.102			N/A
4/18/2019	AUDNOK.fx	11:30:00 AM	6.1293	6.1274			N/A
4/18/2019	AUDNOK.fx	1:30:00 PM	6.1105	6.1108			N/A
4/18/2019	AUDNOK.fx	3:30:00 PM	6.109	6.1077			N/A
4/18/2019	AUDNZD	9:30:00 AM	1.06873	1.06951			N/A
4/18/2019	AUDNZD	11:30:00 AM	1.06758	1.06845			N/A
4/18/2019	AUDNZD	1:30:00 PM	1.069	1.06971			N/A
4/18/2019	AUDNZD	3:30:00 PM	1.07018	1.0705			N/A
4/18/2019	AUDNZD.fx	9:30:00 AM	1.06916	1.06907			N/A
4/18/2019	AUDNZD.fx	11:30:00 AM	1.06801	1.06801			N/A
4/18/2019	AUDNZD.fx	1:30:00 PM	1.06944	1.06925			N/A
4/18/2019	AUDNZD.fx	3:30:00 PM	1.07058	1.07016			N/A
4/18/2019	AUDPLN	9:30:00 AM	2.7137	2.717			N/A
4/18/2019	AUDPLN	11:30:00 AM	2.7212	2.724			N/A
4/18/2019	AUDPLN	1:30:00 PM	2.722	2.7245			N/A
4/18/2019	AUDPLN	3:30:00 PM	2.7226	2.7245			N/A
4/18/2019	AUDSEK	9:30:00 AM	6.6396	6.6424			N/A
4/18/2019	AUDSEK	11:30:00 AM	6.6822	6.678			N/A

4/18/2019	AUDSEK	1:30:00 PM	6.6681	6.6694			N/A
4/18/2019	AUDSEK	3:30:00 PM	6.6704	6.6705			N/A
4/18/2019	AUDSEK.fx	9:30:00 AM	6.635	6.6469			N/A
4/18/2019	AUDSEK.fx	11:30:00 AM	6.6774	6.6823			N/A
4/18/2019	AUDSEK.fx	1:30:00 PM	6.6635	6.6738			N/A
4/18/2019	AUDSEK.fx	3:30:00 PM	6.6653	6.6749			N/A
4/18/2019	AUDSGD	9:30:00 AM	0.9723	0.9725			N/A
4/18/2019	AUDSGD	11:30:00 AM	0.9706	0.9709			N/A
4/18/2019	AUDSGD	1:30:00 PM	0.9702	0.9702			N/A
4/18/2019	AUDSGD	3:30:00 PM	0.97	0.97			N/A
4/18/2019	AUDSGD.fx	9:30:00 AM	0.97241	0.97253			N/A
4/18/2019	AUDSGD.fx	11:30:00 AM	0.97068	0.97071			N/A
4/18/2019	AUDSGD.fx	1:30:00 PM	0.97026	0.97012			N/A
4/18/2019	AUDSGD.fx	3:30:00 PM	0.97007	0.96991			N/A
4/18/2019	AUDUSD	9:30:00 AM	0.71852	0.71863			N/A
4/18/2019	AUDUSD	11:30:00 AM	0.71622	0.71629			N/A
4/18/2019	AUDUSD	1:30:00 PM	0.71588	0.7158			N/A
4/18/2019	AUDUSD	3:30:00 PM	0.71559	0.71539			N/A
4/18/2019	AUDUSD.fx	9:30:00 AM	0.71857	0.71859			N/A
4/18/2019	AUDUSD.fx	11:30:00 AM	0.71627	0.71624			N/A
4/18/2019	AUDUSD.fx	1:30:00 PM	0.71593	0.71574			N/A
4/18/2019	AUDUSD.fx	3:30:00 PM	0.71561	0.71534			N/A
4/18/2019	AUDZAR	9:30:00 AM	10.0692	10.0801			N/A
4/18/2019	AUDZAR	11:30:00 AM	10.073	10.0861			N/A
4/18/2019	AUDZAR	1:30:00 PM	10.0854	10.0975			N/A
4/18/2019	AUDZAR	3:30:00 PM	10.0637	10.0766			N/A
4/18/2019	AUS200.i	9:30:00 AM	6263.23	6267.53			N/A
4/18/2019	AUS200.i	11:30:00 AM	6260.83	6262.23			N/A
4/18/2019	AUS200.i	1:30:00 PM	6281.13	6283.83			N/A
4/18/2019	AUS200.i	3:30:00 PM	6289.33	6286.83			N/A
4/18/2019	BCHUSD	9:30:00 AM	313.12	324.57			N/A
4/18/2019	BCHUSD	11:30:00 AM	310.82	322.08			N/A
4/18/2019	BCHUSD	1:30:00 PM	309.55	321.32			N/A
4/18/2019	BCHUSD	3:30:00 PM	309.39	320.99			N/A

4/18/2019	CADCHF	9:30:00 AM	0.75568	0.75636			N/A
4/18/2019	CADCHF	11:30:00 AM	0.75586	0.75637			N/A
4/18/2019	CADCHF	1:30:00 PM	0.75584	0.75654			N/A
4/18/2019	CADCHF	3:30:00 PM	0.75673	0.75617			N/A
4/18/2019	CADCHF.fx	9:30:00 AM	0.75602	0.756			N/A
4/18/2019	CADCHF.fx	11:30:00 AM	0.75619	0.75603			N/A
4/18/2019	CADCHF.fx	1:30:00 PM	0.75618	0.75618			N/A
4/18/2019	CADCHF.fx	3:30:00 PM	0.75689	0.75606			N/A
4/18/2019	CADCZK	9:30:00 AM	16.978	16.99			N/A
4/18/2019	CADCZK	11:30:00 AM	17.059	17.074			N/A
4/18/2019	CADCZK	1:30:00 PM	17.051	17.067			N/A
4/18/2019	CADCZK	3:30:00 PM	17.062	17.046			N/A
4/18/2019	CADDDKK	9:30:00 AM					N/A
4/18/2019	CADDDKK	11:30:00 AM	4.962	4.965			N/A
4/18/2019	CADDDKK	1:30:00 PM					N/A
4/18/2019	CADDDKK	3:30:00 PM	4.964	4.958			N/A
4/18/2019	CADHKD	9:30:00 AM	5.8705	5.8744			N/A
4/18/2019	CADHKD	11:30:00 AM	5.8678	5.8717			N/A
4/18/2019	CADHKD	1:30:00 PM	5.8651	5.8686			N/A
4/18/2019	CADHKD	3:30:00 PM	5.8634	5.8596			N/A
4/18/2019	CADHUF	9:30:00 AM	211.44	211.61			N/A
4/18/2019	CADHUF	11:30:00 AM	212.65	212.73			N/A
4/18/2019	CADHUF	1:30:00 PM	212.63	212.79			N/A
4/18/2019	CADHUF	3:30:00 PM	212.67	212.49			N/A
4/18/2019	CADJPY	9:30:00 AM	83.739	83.808			N/A
4/18/2019	CADJPY	11:30:00 AM	83.678	83.741			N/A
4/18/2019	CADJPY	1:30:00 PM	83.676	83.739			N/A
4/18/2019	CADJPY	3:30:00 PM	83.699	83.593			N/A
4/18/2019	CADJPY.fx	9:30:00 AM	83.773	83.774			N/A
4/18/2019	CADJPY.fx	11:30:00 AM	83.711	83.707			N/A
4/18/2019	CADJPY.fx	1:30:00 PM	83.71	83.705			N/A
4/18/2019	CADJPY.fx	3:30:00 PM	83.716	83.572			N/A
4/18/2019	CADMXN	9:30:00 AM	14.1066	14.1196			N/A
4/18/2019	CADMXN	11:30:00 AM	14.1283	14.1406			N/A

4/18/2019	CADMXN	1:30:00 PM	14.1059	14.1174			N/A
4/18/2019	CADMXN	3:30:00 PM	14.0883	14.0827			N/A
4/18/2019	CADNOK	9:30:00 AM	6.3532	6.3581			N/A
4/18/2019	CADNOK	11:30:00 AM	6.3984	6.4009			N/A
4/18/2019	CADNOK	1:30:00 PM	6.3807	6.3851			N/A
4/18/2019	CADNOK	3:30:00 PM	6.3766	6.3699			N/A
4/18/2019	CADPLN	9:30:00 AM	2.828	2.8299			N/A
4/18/2019	CADPLN	11:30:00 AM	2.8423	2.8442			N/A
4/18/2019	CADPLN	1:30:00 PM	2.844	2.8457			N/A
4/18/2019	CADPLN	3:30:00 PM	2.8429	2.8407			N/A
4/18/2019	CADSEK	9:30:00 AM	6.9159	6.9198			N/A
4/18/2019	CADSEK	11:30:00 AM	6.9797	6.9764			N/A
4/18/2019	CADSEK	1:30:00 PM	6.9644	6.9675			N/A
4/18/2019	CADSEK	3:30:00 PM	6.9677	6.9595			N/A
4/18/2019	CADSGD	9:30:00 AM	1.0126	1.0129			N/A
4/18/2019	CADSGD	11:30:00 AM	1.0134	1.0137			N/A
4/18/2019	CADSGD	1:30:00 PM	1.0129	1.0132			N/A
4/18/2019	CADSGD	3:30:00 PM	1.0125	1.0121			N/A
4/18/2019	CADZAR	9:30:00 AM	10.4919	10.5048			N/A
4/18/2019	CADZAR	11:30:00 AM	10.5246	10.5409			N/A
4/18/2019	CADZAR	1:30:00 PM	10.5367	10.5532			N/A
4/18/2019	CADZAR	3:30:00 PM	10.5132	10.5193			N/A
4/18/2019	CHFCZK	9:30:00 AM	22.462	22.472			N/A
4/18/2019	CHFCZK	11:30:00 AM	22.568	22.578			N/A
4/18/2019	CHFCZK	1:30:00 PM	22.552	22.568			N/A
4/18/2019	CHFCZK	3:30:00 PM	22.54	22.545			N/A
4/18/2019	CHFDKK	9:30:00 AM					N/A
4/18/2019	CHFDKK	11:30:00 AM	6.564	6.566			N/A
4/18/2019	CHFDKK	1:30:00 PM	6.561	6.564			N/A
4/18/2019	CHFDKK	3:30:00 PM	6.56	6.558			N/A
4/18/2019	CHFDKK.fx	9:30:00 AM	6.539	6.5452			N/A
4/18/2019	CHFDKK.fx	11:30:00 AM	6.5633	6.5679			N/A
4/18/2019	CHFDKK.fx	1:30:00 PM	6.5591	6.5652			N/A
4/18/2019	CHFDKK.fx	3:30:00 PM	6.5577	6.5601			N/A

4/18/2019	CHFHKD	9:30:00 AM	7.766	7.7699			N/A
4/18/2019	CHFHKD	11:30:00 AM	7.7624	7.7655			N/A
4/18/2019	CHFHKD	1:30:00 PM	7.7572	7.7611			N/A
4/18/2019	CHFHKD	3:30:00 PM	7.7498	7.7444			N/A
4/18/2019	CHFHUF	9:30:00 AM	279.61	280			N/A
4/18/2019	CHFHUF	11:30:00 AM	281.17	281.42			N/A
4/18/2019	CHFHUF	1:30:00 PM	281.12	281.5			N/A
4/18/2019	CHFHUF	3:30:00 PM	280.89	281.11			N/A
4/18/2019	CHFJPY	9:30:00 AM	110.764	110.825			N/A
4/18/2019	CHFJPY	11:30:00 AM	110.67	110.718			N/A
4/18/2019	CHFJPY	1:30:00 PM	110.649	110.719			N/A
4/18/2019	CHFJPY	3:30:00 PM	110.569	110.542			N/A
4/18/2019	CHFJPY.fx	9:30:00 AM	110.799	110.791			N/A
4/18/2019	CHFJPY.fx	11:30:00 AM	110.7	110.685			N/A
4/18/2019	CHFJPY.fx	1:30:00 PM	110.682	110.685			N/A
4/18/2019	CHFJPY.fx	3:30:00 PM	110.602	110.516			N/A
4/18/2019	CHFMXN	9:30:00 AM	18.6613	18.6758			N/A
4/18/2019	CHFMXN	11:30:00 AM	18.6889	18.7			N/A
4/18/2019	CHFMXN	1:30:00 PM	18.6555	18.6704			N/A
4/18/2019	CHFMXN	3:30:00 PM	18.6188	18.6161			N/A
4/18/2019	CHFNOK	9:30:00 AM	8.404	8.4119			N/A
4/18/2019	CHFNOK	11:30:00 AM	8.4679	8.4695			N/A
4/18/2019	CHFNOK	1:30:00 PM	8.4386	8.4454			N/A
4/18/2019	CHFNOK	3:30:00 PM	8.4286	8.4309			N/A
4/18/2019	CHFNOK.fx	9:30:00 AM	8.40738	8.40849			N/A
4/18/2019	CHFNOK.fx	11:30:00 AM	8.4713	8.46618			N/A
4/18/2019	CHFNOK.fx	1:30:00 PM	8.44209	8.44176			N/A
4/18/2019	CHFNOK.fx	3:30:00 PM	8.43205	8.42813			N/A
4/18/2019	CHFPLN	9:30:00 AM	3.7406	3.7437			N/A
4/18/2019	CHFPLN	11:30:00 AM	3.7611	3.7634			N/A
4/18/2019	CHFPLN	1:30:00 PM	3.7608	3.7634			N/A
4/18/2019	CHFPLN	3:30:00 PM	3.7581	3.7589			N/A
4/18/2019	CHFPLN.fx	9:30:00 AM	3.73829	3.74605			N/A
4/18/2019	CHFPLN.fx	11:30:00 AM	3.75846	3.76603			N/A

4/18/2019	CHFPLN.fx	1:30:00 PM	3.75844	3.76573			N/A
4/18/2019	CHFPLN.fx	3:30:00 PM	3.75548	3.76185			N/A
4/18/2019	CHFSEK	9:30:00 AM	9.1493	9.1533			N/A
4/18/2019	CHFSEK	11:30:00 AM	9.2327	9.2263			N/A
4/18/2019	CHFSEK	1:30:00 PM	9.2104	9.2148			N/A
4/18/2019	CHFSEK	3:30:00 PM	9.2046	9.203			N/A
4/18/2019	CHFSGD	9:30:00 AM	1.3401	1.3404			N/A
4/18/2019	CHFSGD	11:30:00 AM	1.3412	1.3414			N/A
4/18/2019	CHFSGD	1:30:00 PM	1.3403	1.3404			N/A
4/18/2019	CHFSGD	3:30:00 PM	1.339	1.3382			N/A
4/18/2019	CHFSGD.fx	9:30:00 AM	1.34018	1.34019			N/A
4/18/2019	CHFSGD.fx	11:30:00 AM	1.34132	1.34126			N/A
4/18/2019	CHFSGD.fx	1:30:00 PM	1.34043	1.34047			N/A
4/18/2019	CHFSGD.fx	3:30:00 PM	1.33919	1.33809			N/A
4/18/2019	CHFZAR	9:30:00 AM	13.8832	13.8912			N/A
4/18/2019	CHFZAR	11:30:00 AM	13.9264	13.9351			N/A
4/18/2019	CHFZAR	1:30:00 PM	13.9398	13.9533			N/A
4/18/2019	CHFZAR	3:30:00 PM	13.9006	13.9017			N/A
4/18/2019	CZKJPY	9:30:00 AM	4.932	4.936			N/A
4/18/2019	CZKJPY	11:30:00 AM	4.904	4.908			N/A
4/18/2019	CZKJPY	1:30:00 PM					N/A
4/18/2019	CZKJPY	3:30:00 PM	4.905	4.908			N/A
4/18/2019	DAX30.i	9:30:00 AM	12141.01	12139.51			N/A
4/18/2019	DAX30.i	11:30:00 AM	12150.76	12146.26			N/A
4/18/2019	DAX30.i	1:30:00 PM	12232.26	12230.01			N/A
4/18/2019	DAX30.i	3:30:00 PM	12221.76	12207.51			N/A
4/18/2019	DJ30.i	9:30:00 AM					N/A
4/18/2019	DJ30.i	11:30:00 AM					N/A
4/18/2019	DJ30.i	1:30:00 PM					N/A
4/18/2019	DJ30.i	3:30:00 PM					N/A
4/18/2019	DKKJPY	9:30:00 AM					N/A
4/18/2019	DKKJPY	11:30:00 AM					N/A
4/18/2019	DKKJPY	1:30:00 PM					N/A
4/18/2019	DKKJPY	3:30:00 PM	16.87	16.88			N/A

4/18/2019	EURAUD	9:30:00 AM	1.57197	1.57242			N/A
4/18/2019	EURAUD	11:30:00 AM	1.57035	1.57069			N/A
4/18/2019	EURAUD	1:30:00 PM	1.57129	1.57122			N/A
4/18/2019	EURAUD	3:30:00 PM	1.57073	1.57027			N/A
4/18/2019	EURAUD.fx	9:30:00 AM	1.57218	1.57221			N/A
4/18/2019	EURAUD.fx	11:30:00 AM	1.57056	1.57046			N/A
4/18/2019	EURAUD.fx	1:30:00 PM	1.57151	1.57099			N/A
4/18/2019	EURAUD.fx	3:30:00 PM	1.5708	1.57011			N/A
4/18/2019	EURCAD	9:30:00 AM	1.50916	1.50999			N/A
4/18/2019	EURCAD	11:30:00 AM	1.50338	1.50403			N/A
4/18/2019	EURCAD	1:30:00 PM	1.5041	1.50495			N/A
4/18/2019	EURCAD	3:30:00 PM	1.50552	1.50389			N/A
4/18/2019	EURCAD.fx	9:30:00 AM	1.50957	1.50958			N/A
4/18/2019	EURCAD.fx	11:30:00 AM	1.50378	1.50362			N/A
4/18/2019	EURCAD.fx	1:30:00 PM	1.50451	1.50451			N/A
4/18/2019	EURCAD.fx	3:30:00 PM	1.50572	1.50371			N/A
4/18/2019	EURCHF	9:30:00 AM	1.14122	1.14133			N/A
4/18/2019	EURCHF	11:30:00 AM	1.13707	1.13689			N/A
4/18/2019	EURCHF	1:30:00 PM	1.13767	1.13775			N/A
4/18/2019	EURCHF	3:30:00 PM	1.13867	1.13809			N/A
4/18/2019	EURCHF.fx	9:30:00 AM	1.14127	1.14127			N/A
4/18/2019	EURCHF.fx	11:30:00 AM	1.13711	1.13684			N/A
4/18/2019	EURCHF.fx	1:30:00 PM	1.13772	1.13769			N/A
4/18/2019	EURCHF.fx	3:30:00 PM	1.13871	1.13805			N/A
4/18/2019	EURCZK	9:30:00 AM	25.623	25.654			N/A
4/18/2019	EURCZK	11:30:00 AM	25.646	25.681			N/A
4/18/2019	EURCZK	1:30:00 PM	25.644	25.683			N/A
4/18/2019	EURCZK	3:30:00 PM	25.64	25.673			N/A
4/18/2019	EURDKK	9:30:00 AM	7.4647	7.4658			N/A
4/18/2019	EURDKK	11:30:00 AM	7.4639	7.4642			N/A
4/18/2019	EURDKK	1:30:00 PM	7.464	7.4652			N/A
4/18/2019	EURDKK	3:30:00 PM	7.4619	7.4625			N/A
4/18/2019	EURGBP	9:30:00 AM	0.86623	0.86628			N/A
4/18/2019	EURGBP	11:30:00 AM	0.86412	0.86374			N/A

4/18/2019	EURGBP	1:30:00 PM	0.86515	0.86525			N/A
4/18/2019	EURGBP	3:30:00 PM	0.8648	0.86439			N/A
4/18/2019	EURGBP.fx	9:30:00 AM	0.86626	0.86624			N/A
4/18/2019	EURGBP.fx	11:30:00 AM	0.86413	0.86378			N/A
4/18/2019	EURGBP.fx	1:30:00 PM	0.86518	0.8652			N/A
4/18/2019	EURGBP.fx	3:30:00 PM	0.86483	0.86435			N/A
4/18/2019	EURHKD	9:30:00 AM	8.8631	8.8681			N/A
4/18/2019	EURHKD	11:30:00 AM	8.8264	8.8297			N/A
4/18/2019	EURHKD	1:30:00 PM	8.8256	8.8306			N/A
4/18/2019	EURHKD	3:30:00 PM	8.8209	8.8206			N/A
4/18/2019	EURHKD.fx	9:30:00 AM	8.8657	8.86556			N/A
4/18/2019	EURHKD.fx	11:30:00 AM	8.8289	8.8272			N/A
4/18/2019	EURHKD.fx	1:30:00 PM	8.82839	8.82775			N/A
4/18/2019	EURHKD.fx	3:30:00 PM	8.82271	8.81785			N/A
4/18/2019	EURHUF	9:30:00 AM	319.08	319.67			N/A
4/18/2019	EURHUF	11:30:00 AM	319.68	320.22			N/A
4/18/2019	EURHUF	1:30:00 PM	319.69	320.37			N/A
4/18/2019	EURHUF	3:30:00 PM	319.86	320.49			N/A
4/18/2019	EURHUF.fx	9:30:00 AM	319.323	319.558			N/A
4/18/2019	EURHUF.fx	11:30:00 AM	319.952	320.139			N/A
4/18/2019	EURHUF.fx	1:30:00 PM					N/A
4/18/2019	EURHUF.fx	3:30:00 PM	320.13	320.306			N/A
4/18/2019	EURJPY	9:30:00 AM	126.447	126.448			N/A
4/18/2019	EURJPY	11:30:00 AM	125.865	125.857			N/A
4/18/2019	EURJPY	1:30:00 PM	125.928	125.925			N/A
4/18/2019	EURJPY	3:30:00 PM	125.877	125.823			N/A
4/18/2019	EURJPY.fx	9:30:00 AM	126.448	126.444			N/A
4/18/2019	EURJPY.fx	11:30:00 AM	125.868	125.86			N/A
4/18/2019	EURJPY.fx	1:30:00 PM	125.93	125.921			N/A
4/18/2019	EURJPY.fx	3:30:00 PM	125.878	125.847			N/A
4/18/2019	EURMXN	9:30:00 AM	21.3007	21.3189			N/A
4/18/2019	EURMXN	11:30:00 AM	21.2543	21.2704			N/A
4/18/2019	EURMXN	1:30:00 PM	21.2281	21.2457			N/A
4/18/2019	EURMXN	3:30:00 PM	21.1928	21.2009			N/A

4/18/2019	EURMXN.fx	9:30:00 AM	21.3092	21.3104			N/A
4/18/2019	EURMXN.fx	11:30:00 AM	21.2627	21.2621			N/A
4/18/2019	EURMXN.fx	1:30:00 PM	21.2381	21.2357			N/A
4/18/2019	EURMXN.fx	3:30:00 PM	21.2026	21.1909			N/A
4/18/2019	EURNOK	9:30:00 AM	9.5896	9.6019			N/A
4/18/2019	EURNOK	11:30:00 AM	9.6251	9.6318			N/A
4/18/2019	EURNOK	1:30:00 PM	9.5989	9.6098			N/A
4/18/2019	EURNOK	3:30:00 PM	9.5906	9.601			N/A
4/18/2019	EURNOK.fx	9:30:00 AM	9.59514	9.59658			N/A
4/18/2019	EURNOK.fx	11:30:00 AM	9.63042	9.62653			N/A
4/18/2019	EURNOK.fx	1:30:00 PM	9.6043	9.60435			N/A
4/18/2019	EURNOK.fx	3:30:00 PM	9.59583	9.59725			N/A
4/18/2019	EURNZD	9:30:00 AM	1.68121	1.68188			N/A
4/18/2019	EURNZD	11:30:00 AM	1.67764	1.67829			N/A
4/18/2019	EURNZD	1:30:00 PM	1.68056	1.68122			N/A
4/18/2019	EURNZD	3:30:00 PM	1.68153	1.68132			N/A
4/18/2019	EURNZD.fx	9:30:00 AM	1.68163	1.68145			N/A
4/18/2019	EURNZD.fx	11:30:00 AM	1.67804	1.67789			N/A
4/18/2019	EURNZD.fx	1:30:00 PM	1.68097	1.68079			N/A
4/18/2019	EURNZD.fx	3:30:00 PM	1.68191	1.6811			N/A
4/18/2019	EURPLN	9:30:00 AM	4.2691	4.2725			N/A
4/18/2019	EURPLN	11:30:00 AM	4.2761	4.2792			N/A
4/18/2019	EURPLN	1:30:00 PM	4.2788	4.2815			N/A
4/18/2019	EURPLN	3:30:00 PM	4.2772	4.2799			N/A
4/18/2019	EURPLN.fx	9:30:00 AM	4.26837	4.27312			N/A
4/18/2019	EURPLN.fx	11:30:00 AM	4.27546	4.27989			N/A
4/18/2019	EURPLN.fx	1:30:00 PM	4.27817	4.28222			N/A
4/18/2019	EURPLN.fx	3:30:00 PM	4.27647	4.28093			N/A
4/18/2019	EURRUB	9:30:00 AM					N/A
4/18/2019	EURRUB	11:30:00 AM	71.805	72.242			N/A
4/18/2019	EURRUB	1:30:00 PM	71.729	72.171			N/A
4/18/2019	EURRUB	3:30:00 PM	71.645	71.98			N/A
4/18/2019	EURSEK	9:30:00 AM	10.4428	10.4471			N/A
4/18/2019	EURSEK	11:30:00 AM	10.4987	10.4921			N/A

4/18/2019	EURSEK	1:30:00 PM	10.4804	10.4846			N/A
4/18/2019	EURSEK	3:30:00 PM	10.4772	10.4811			N/A
4/18/2019	EURSEK.fx	9:30:00 AM	10.44446	10.44547			N/A
4/18/2019	EURSEK.fx	11:30:00 AM	10.50021	10.49058			N/A
4/18/2019	EURSEK.fx	1:30:00 PM	10.48196	10.48299			N/A
4/18/2019	EURSEK.fx	3:30:00 PM	10.47871	10.47981			N/A
4/18/2019	EURSGD	9:30:00 AM	1.5292	1.5299			N/A
4/18/2019	EURSGD	11:30:00 AM	1.5248	1.5254			N/A
4/18/2019	EURSGD	1:30:00 PM	1.5246	1.5254			N/A
4/18/2019	EURSGD	3:30:00 PM	1.5238	1.524			N/A
4/18/2019	EURSGD.fx	9:30:00 AM	1.5295	1.52953			N/A
4/18/2019	EURSGD.fx	11:30:00 AM	1.52518	1.52488			N/A
4/18/2019	EURSGD.fx	1:30:00 PM	1.525	1.52502			N/A
4/18/2019	EURSGD.fx	3:30:00 PM	1.52416	1.52374			N/A
4/18/2019	EURUSD	9:30:00 AM	1.13001	1.13011			N/A
4/18/2019	EURUSD	11:30:00 AM	1.12521	1.12509			N/A
4/18/2019	EURUSD	1:30:00 PM	1.12504	1.12512			N/A
4/18/2019	EURUSD	3:30:00 PM	1.12445	1.12381	10	10	N/A
4/18/2019	EURUSD.fx	9:30:00 AM	1.13021	1.1302			N/A
4/18/2019	EURUSD.fx	11:30:00 AM	1.12539	1.12519			N/A
4/18/2019	EURUSD.fx	1:30:00 PM	1.12525	1.12522			N/A
4/18/2019	EURUSD.fx	3:30:00 PM	1.12455	1.12392			N/A
4/18/2019	EURZAR	9:30:00 AM	15.8463	15.8603			N/A
4/18/2019	EURZAR	11:30:00 AM	15.8408	15.8566			N/A
4/18/2019	EURZAR	1:30:00 PM	15.861	15.8802			N/A
4/18/2019	EURZAR	3:30:00 PM	15.828	15.8394			N/A
4/18/2019	EURZAR.fx	9:30:00 AM	15.84627	15.86092			N/A
4/18/2019	EURZAR.fx	11:30:00 AM	15.8401	15.85719			N/A
4/18/2019	EURZAR.fx	1:30:00 PM	15.86125	15.88081			N/A
4/18/2019	EURZAR.fx	3:30:00 PM	15.82711	15.84388			N/A
4/18/2019	GBPAUD	9:30:00 AM	1.81533	1.81601			N/A
4/18/2019	GBPAUD	11:30:00 AM	1.81875	1.81771			N/A
4/18/2019	GBPAUD	1:30:00 PM	1.81659	1.81693			N/A
4/18/2019	GBPAUD	3:30:00 PM	1.8172	1.8173			N/A

4/18/2019	GBPAUD.fx	9:30:00 AM	1.81572	1.81561			N/A
4/18/2019	GBPAUD.fx	11:30:00 AM	1.8189	1.8175			N/A
4/18/2019	GBPAUD.fx	1:30:00 PM	1.81699	1.81652			N/A
4/18/2019	GBPAUD.fx	3:30:00 PM	1.81758	1.81694			N/A
4/18/2019	GBPCAD	9:30:00 AM	1.74229	1.74301			N/A
4/18/2019	GBPCAD	11:30:00 AM	1.74082	1.74054			N/A
4/18/2019	GBPCAD	1:30:00 PM	1.73858	1.73939			N/A
4/18/2019	GBPCAD	3:30:00 PM	1.74043	1.73944			N/A
4/18/2019	GBPCAD.fx	9:30:00 AM	1.74267	1.74263			N/A
4/18/2019	GBPCAD.fx	11:30:00 AM	1.741	1.73953			N/A
4/18/2019	GBPCAD.fx	1:30:00 PM	1.73895	1.739			N/A
4/18/2019	GBPCAD.fx	3:30:00 PM	1.74074	1.73955			N/A
4/18/2019	GBPCHF	9:30:00 AM	1.31735	1.31763			N/A
4/18/2019	GBPCHF	11:30:00 AM	1.31606	1.31538			N/A
4/18/2019	GBPCHF	1:30:00 PM	1.31483	1.31518			N/A
4/18/2019	GBPCHF	3:30:00 PM	1.31734	1.31636			N/A
4/18/2019	GBPCHF.fx	9:30:00 AM	1.31753	1.3174			N/A
4/18/2019	GBPCHF.fx	11:30:00 AM	1.31614	1.3153			N/A
4/18/2019	GBPCHF.fx	1:30:00 PM	1.315	1.31498			N/A
4/18/2019	GBPCHF.fx	3:30:00 PM	1.31745	1.31616			N/A
4/18/2019	GBPCZK	9:30:00 AM	29.589	29.601			N/A
4/18/2019	GBPCZK	11:30:00 AM	29.701	29.706			N/A
4/18/2019	GBPCZK	1:30:00 PM	29.651	29.672			N/A
4/18/2019	GBPCZK	3:30:00 PM	29.676	29.685			N/A
4/18/2019	GBPDKK	9:30:00 AM	8.614	8.625			N/A
4/18/2019	GBPDKK	11:30:00 AM	8.639	8.645			N/A
4/18/2019	GBPDKK	1:30:00 PM	8.625	8.635			N/A
4/18/2019	GBPDKK	3:30:00 PM	8.634	8.639			N/A
4/18/2019	GBPDKK.fx	9:30:00 AM	8.6128	8.6254			N/A
4/18/2019	GBPDKK.fx	11:30:00 AM	8.6364	8.6451			N/A
4/18/2019	GBPDKK.fx	1:30:00 PM	8.6228	8.6355			N/A
4/18/2019	GBPDKK.fx	3:30:00 PM	8.6315	8.6397			N/A
4/18/2019	GBPHKD	9:30:00 AM	10.2296	10.2347			N/A
4/18/2019	GBPHKD	11:30:00 AM	10.2164	10.2126			N/A

4/18/2019	GBPHKD	1:30:00 PM	10.1989	10.2036			N/A
4/18/2019	GBPHKD	3:30:00 PM	10.2	10.2019			N/A
4/18/2019	GBPHUF	9:30:00 AM	368.34	368.81			N/A
4/18/2019	GBPHUF	11:30:00 AM	369.99	370.19			N/A
4/18/2019	GBPHUF	1:30:00 PM	369.63	370.08			N/A
4/18/2019	GBPHUF	3:30:00 PM	369.89	370.18			N/A
4/18/2019	GBPJPY	9:30:00 AM	145.956	145.992			N/A
4/18/2019	GBPJPY	11:30:00 AM	145.721	145.679			N/A
4/18/2019	GBPJPY	1:30:00 PM	145.537	145.561			N/A
4/18/2019	GBPJPY	3:30:00 PM	145.583	145.55			N/A
4/18/2019	GBPJPY.fx	9:30:00 AM	145.973	145.973			N/A
4/18/2019	GBPJPY.fx	11:30:00 AM	145.71	145.662			N/A
4/18/2019	GBPJPY.fx	1:30:00 PM	145.555	145.542			N/A
4/18/2019	GBPJPY.fx	3:30:00 PM	145.599	145.533			N/A
4/18/2019	GBPMXN	9:30:00 AM	24.5844	24.5995			N/A
4/18/2019	GBPMXN	11:30:00 AM	24.601	24.5882			N/A
4/18/2019	GBPMXN	1:30:00 PM	24.5305	24.5445			N/A
4/18/2019	GBPMXN	3:30:00 PM	24.509	24.5178			N/A
4/18/2019	GBPNOK	9:30:00 AM	11.0719	11.0829			N/A
4/18/2019	GBPNOK	11:30:00 AM	11.146	11.1452			N/A
4/18/2019	GBPNOK	1:30:00 PM	11.0958	11.1065			N/A
4/18/2019	GBPNOK	3:30:00 PM	11.0975	11.1013			N/A
4/18/2019	GBPNOK.fx	9:30:00 AM	11.07684	11.07815			N/A
4/18/2019	GBPNOK.fx	11:30:00 AM	11.14985	11.14055			N/A
4/18/2019	GBPNOK.fx	1:30:00 PM	11.10087	11.10121			N/A
4/18/2019	GBPNOK.fx	3:30:00 PM	11.1019	11.09632			N/A
4/18/2019	GBPNZD	9:30:00 AM	1.94093	1.94147			N/A
4/18/2019	GBPNZD	11:30:00 AM	1.94254	1.94209			N/A
4/18/2019	GBPNZD	1:30:00 PM	1.94246	1.94316			N/A
4/18/2019	GBPNZD	3:30:00 PM	1.94505	1.94507			N/A
4/18/2019	GBPNZD.fx	9:30:00 AM	1.94128	1.9411			N/A
4/18/2019	GBPNZD.fx	11:30:00 AM	1.94259	1.94173			N/A
4/18/2019	GBPNZD.fx	1:30:00 PM	1.94283	1.94278			N/A
4/18/2019	GBPNZD.fx	3:30:00 PM	1.94538	1.94475			N/A

4/18/2019	GBPPLN	9:30:00 AM	4.9292	4.9309			N/A
4/18/2019	GBPPLN	11:30:00 AM	4.9521	4.9512			N/A
4/18/2019	GBPPLN	1:30:00 PM	4.9464	4.948			N/A
4/18/2019	GBPPLN	3:30:00 PM	4.9494	4.9484			N/A
4/18/2019	GBPPLN.fx	9:30:00 AM	4.92702	4.93308			N/A
4/18/2019	GBPPLN.fx	11:30:00 AM	4.94888	4.95335			N/A
4/18/2019	GBPPLN.fx	1:30:00 PM	4.94426	4.95017			N/A
4/18/2019	GBPPLN.fx	3:30:00 PM	4.9468	4.95066			N/A
4/18/2019	GBPSEK	9:30:00 AM	12.0538	12.0621			N/A
4/18/2019	GBPSEK	11:30:00 AM	12.1533	12.1433			N/A
4/18/2019	GBPSEK	1:30:00 PM	12.1113	12.1204			N/A
4/18/2019	GBPSEK	3:30:00 PM	12.1195	12.1214			N/A
4/18/2019	GBPSEK.fx	9:30:00 AM	12.04998	12.06569			N/A
4/18/2019	GBPSEK.fx	11:30:00 AM	12.14828	12.14748			N/A
4/18/2019	GBPSEK.fx	1:30:00 PM	12.10782	12.12407			N/A
4/18/2019	GBPSEK.fx	3:30:00 PM	12.11465	12.1248			N/A
4/18/2019	GBPSGD	9:30:00 AM	1.7654	1.7661			N/A
4/18/2019	GBPSGD	11:30:00 AM	1.7655	1.7651			N/A
4/18/2019	GBPSGD	1:30:00 PM	1.7623	1.7631			N/A
4/18/2019	GBPSGD	3:30:00 PM	1.7627	1.7628			N/A
4/18/2019	GBPSGD.fx	9:30:00 AM	1.76353	1.76788			N/A
4/18/2019	GBPSGD.fx	11:30:00 AM	1.76329	1.76722			N/A
4/18/2019	GBPSGD.fx	1:30:00 PM	1.76045	1.76492			N/A
4/18/2019	GBPSGD.fx	3:30:00 PM	1.76082	1.76456			N/A
4/18/2019	GBPUSD	9:30:00 AM	1.30473	1.30469			N/A
4/18/2019	GBPUSD	11:30:00 AM	1.303	1.3021			N/A
4/18/2019	GBPUSD	1:30:00 PM	1.30057	1.30057			N/A
4/18/2019	GBPUSD	3:30:00 PM	1.30051	1.29989			N/A
4/18/2019	GBPUSD.fx	9:30:00 AM	1.30477	1.30465			N/A
4/18/2019	GBPUSD.fx	11:30:00 AM	1.30288	1.30214			N/A
4/18/2019	GBPUSD.fx	1:30:00 PM	1.30062	1.30052			N/A
4/18/2019	GBPUSD.fx	3:30:00 PM	1.30051	1.29984			N/A
4/18/2019	GBPZAR	9:30:00 AM	18.2891	18.3126			N/A
4/18/2019	GBPZAR	11:30:00 AM	18.3384	18.3499			N/A

4/18/2019	GBPZAR	1:30:00 PM	18.3292	18.3581			N/A
4/18/2019	GBPZAR	3:30:00 PM	18.3067	18.3265			N/A
4/18/2019	GBPZAR.fx	9:30:00 AM	18.2963	18.3052			N/A
4/18/2019	GBPZAR.fx	11:30:00 AM	18.3454	18.3462			N/A
4/18/2019	GBPZAR.fx	1:30:00 PM	18.3366	18.3509			N/A
4/18/2019	GBPZAR.fx	3:30:00 PM	18.3136	18.3198			N/A
4/18/2019	GOLD	9:30:00 AM	1271.93	1272.18			N/A
4/18/2019	GOLD	11:30:00 AM	1274.72	1275.02			N/A
4/18/2019	GOLD	1:30:00 PM	1275.5	1275.83			N/A
4/18/2019	GOLD	3:30:00 PM	1275.61	1273.63			N/A
4/18/2019	HKDJPY	9:30:00 AM	14.26	14.28			N/A
4/18/2019	HKDJPY	11:30:00 AM	14.26	14.27			N/A
4/18/2019	HKDJPY	1:30:00 PM	14.27	14.27			N/A
4/18/2019	HKDJPY	3:30:00 PM	14.27	14.28			N/A
4/18/2019	HKDJPY.fx	9:30:00 AM	14.258	14.266			N/A
4/18/2019	HKDJPY.fx	11:30:00 AM	14.252	14.259			N/A
4/18/2019	HKDJPY.fx	1:30:00 PM	14.26	14.267			N/A
4/18/2019	HKDJPY.fx	3:30:00 PM	14.267	14.264			N/A
4/18/2019	HUFJPY	9:30:00 AM	0.3961	0.3963			N/A
4/18/2019	HUFJPY	11:30:00 AM	0.3936	0.3938			N/A
4/18/2019	HUFJPY	1:30:00 PM	0.3936	0.3939			N/A
4/18/2019	HUFJPY	3:30:00 PM	0.3934	0.3937			N/A
4/18/2019	JP225.i	9:30:00 AM					N/A
4/18/2019	JP225.i	11:30:00 AM	22089.65	22099.65			N/A
4/18/2019	JP225.i	1:30:00 PM	22154.65	22164.65			N/A
4/18/2019	JP225.i	3:30:00 PM	22224.65	22207.15			N/A
4/18/2019	MXNJPY	9:30:00 AM	5.93	5.94			N/A
4/18/2019	MXNJPY	11:30:00 AM	5.92	5.93			N/A
4/18/2019	MXNJPY	1:30:00 PM	5.93	5.94			N/A
4/18/2019	MXNJPY	3:30:00 PM	5.94	5.95			N/A
4/18/2019	NASDAQ.i	9:30:00 AM					N/A
4/18/2019	NASDAQ.i	11:30:00 AM					N/A
4/18/2019	NASDAQ.i	1:30:00 PM					N/A
4/18/2019	NASDAQ.i	3:30:00 PM					N/A

4/18/2019	NOKJPY	9:30:00 AM	13.17	13.2			N/A
4/18/2019	NOKJPY	11:30:00 AM	13.07	13.09			N/A
4/18/2019	NOKJPY	1:30:00 PM	13.1	13.13			N/A
4/18/2019	NOKJPY	3:30:00 PM	13.1	13.13			N/A
4/18/2019	NOKJPY.fx	9:30:00 AM	13.174	13.181			N/A
4/18/2019	NOKJPY.fx	11:30:00 AM	13.072	13.072			N/A
4/18/2019	NOKJPY.fx	1:30:00 PM	13.109	13.113			N/A
4/18/2019	NOKJPY.fx	3:30:00 PM	13.114	13.118			N/A
4/18/2019	NZDCAD	9:30:00 AM	0.89741	0.89805			N/A
4/18/2019	NZDCAD	11:30:00 AM	0.89584	0.89646			N/A
4/18/2019	NZDCAD	1:30:00 PM	0.89472	0.8954			N/A
4/18/2019	NZDCAD	3:30:00 PM	0.8953	0.89469			N/A
4/18/2019	NZDCAD.fx	9:30:00 AM	0.89775	0.8977			N/A
4/18/2019	NZDCAD.fx	11:30:00 AM	0.89616	0.89614			N/A
4/18/2019	NZDCAD.fx	1:30:00 PM	0.89506	0.89506			N/A
4/18/2019	NZDCAD.fx	3:30:00 PM	0.89537	0.89453			N/A
4/18/2019	NZDCHF	9:30:00 AM	0.67839	0.67906			N/A
4/18/2019	NZDCHF	11:30:00 AM	0.67735	0.67789			N/A
4/18/2019	NZDCHF	1:30:00 PM	0.67649	0.67717			N/A
4/18/2019	NZDCHF	3:30:00 PM	0.67701	0.67705			N/A
4/18/2019	NZDCHF.fx	9:30:00 AM	0.67873	0.67871			N/A
4/18/2019	NZDCHF.fx	11:30:00 AM	0.67768	0.67754			N/A
4/18/2019	NZDCHF.fx	1:30:00 PM	0.67684	0.67681			N/A
4/18/2019	NZDCHF.fx	3:30:00 PM	0.67731	0.6767			N/A
4/18/2019	NZDCZK	9:30:00 AM	15.243	15.25			N/A
4/18/2019	NZDCZK	11:30:00 AM	15.288	15.297			N/A
4/18/2019	NZDCZK	1:30:00 PM	15.262	15.272			N/A
4/18/2019	NZDCZK	3:30:00 PM	15.256	15.261			N/A
4/18/2019	NZDDKK	9:30:00 AM	4.438	4.442			N/A
4/18/2019	NZDDKK	11:30:00 AM	4.446	4.449			N/A
4/18/2019	NZDDKK	1:30:00 PM	4.44	4.443			N/A
4/18/2019	NZDDKK	3:30:00 PM	4.437	4.44			N/A
4/18/2019	NZDHKD	9:30:00 AM	5.2697	5.2723			N/A
4/18/2019	NZDHKD	11:30:00 AM	5.2583	5.2605			N/A

4/18/2019	NZDHKD	1:30:00 PM	5.2491	5.2512			N/A
4/18/2019	NZDHKD	3:30:00 PM	5.243	5.2439			N/A
4/18/2019	NZDHUF	9:30:00 AM	189.72	190.01			N/A
4/18/2019	NZDHUF	11:30:00 AM	190.48	190.67			N/A
4/18/2019	NZDHUF	1:30:00 PM	190.22	190.49			N/A
4/18/2019	NZDHUF	3:30:00 PM	190.12	190.32			N/A
4/18/2019	NZDJPY	9:30:00 AM	75.163	75.232			N/A
4/18/2019	NZDJPY	11:30:00 AM	74.977	75.041			N/A
4/18/2019	NZDJPY	1:30:00 PM	74.882	74.947			N/A
4/18/2019	NZDJPY	3:30:00 PM	74.834	74.866			N/A
4/18/2019	NZDJPY.fx	9:30:00 AM	75.195	75.2			N/A
4/18/2019	NZDJPY.fx	11:30:00 AM	75.007	75.009			N/A
4/18/2019	NZDJPY.fx	1:30:00 PM	74.914	74.913			N/A
4/18/2019	NZDJPY.fx	3:30:00 PM	74.847	74.835			N/A
4/18/2019	NZDMXN	9:30:00 AM	12.6646	12.6697			N/A
4/18/2019	NZDMXN	11:30:00 AM	12.6619	12.666			N/A
4/18/2019	NZDMXN	1:30:00 PM	12.6255	12.6311			N/A
4/18/2019	NZDMXN	3:30:00 PM	12.6005	12.6007			N/A
4/18/2019	NZDNOK	9:30:00 AM	5.7028	5.7059			N/A
4/18/2019	NZDNOK	11:30:00 AM	5.7328	5.7343			N/A
4/18/2019	NZDNOK	1:30:00 PM	5.7102	5.7133			N/A
4/18/2019	NZDNOK	3:30:00 PM	5.7011	5.7015			N/A
4/18/2019	NZDPLN	9:30:00 AM	2.5388	2.5399			N/A
4/18/2019	NZDPLN	11:30:00 AM	2.5468	2.5481			N/A
4/18/2019	NZDPLN	1:30:00 PM	2.5452	2.5462			N/A
4/18/2019	NZDPLN	3:30:00 PM	2.5416	2.543			N/A
4/18/2019	NZDSEK	9:30:00 AM	6.2061	6.2122			N/A
4/18/2019	NZDSEK	11:30:00 AM	6.2515	6.2522			N/A
4/18/2019	NZDSEK	1:30:00 PM	6.2308	6.2365			N/A
4/18/2019	NZDSEK	3:30:00 PM	6.2275	6.2319			N/A
4/18/2019	NZDSGD	9:30:00 AM	0.9093	0.9099			N/A
4/18/2019	NZDSGD	11:30:00 AM	0.9087	0.9092			N/A
4/18/2019	NZDSGD	1:30:00 PM	0.907	0.9076			N/A
4/18/2019	NZDSGD	3:30:00 PM	0.9062	0.9066			N/A

4/18/2019	NZDSGD.fx	9:30:00 AM	0.9093	0.90987			N/A
4/18/2019	NZDSGD.fx	11:30:00 AM	0.90867	0.90912			N/A
4/18/2019	NZDSGD.fx	1:30:00 PM	0.90698	0.90755			N/A
4/18/2019	NZDSGD.fx	3:30:00 PM	0.90594	0.90652			N/A
4/18/2019	NZDUSD	9:30:00 AM	0.67201	0.67211			N/A
4/18/2019	NZDUSD	11:30:00 AM	0.67057	0.67065			N/A
4/18/2019	NZDUSD	1:30:00 PM	0.66932	0.66939			N/A
4/18/2019	NZDUSD	3:30:00 PM	0.66867	0.66842			N/A
4/18/2019	NZDUSD.fx	9:30:00 AM	0.67208	0.67213			N/A
4/18/2019	NZDUSD.fx	11:30:00 AM	0.67063	0.67066			N/A
4/18/2019	NZDUSD.fx	1:30:00 PM	0.66939	0.6694			N/A
4/18/2019	NZDUSD.fx	3:30:00 PM	0.66869	0.66844			N/A
4/18/2019	NZDZAR	9:30:00 AM	9.4164	9.429			N/A
4/18/2019	NZDZAR	11:30:00 AM	9.4294	9.445			N/A
4/18/2019	NZDZAR	1:30:00 PM	9.4281	9.4443			N/A
4/18/2019	NZDZAR	3:30:00 PM	9.4017	9.415			N/A
4/18/2019	SEKJPY	9:30:00 AM	12.1	12.12			N/A
4/18/2019	SEKJPY	11:30:00 AM	12	12			N/A
4/18/2019	SEKJPY	1:30:00 PM	12.01	12.02			N/A
4/18/2019	SEKJPY	3:30:00 PM	12.01	12.02			N/A
4/18/2019	SEKJPY.fx	9:30:00 AM	12.097	12.115			N/A
4/18/2019	SEKJPY.fx	11:30:00 AM	11.989	11.995			N/A
4/18/2019	SEKJPY.fx	1:30:00 PM	12.003	12.022			N/A
4/18/2019	SEKJPY.fx	3:30:00 PM	12.002	12.019			N/A
4/18/2019	SGDJPY	9:30:00 AM	82.68	82.68			N/A
4/18/2019	SGDJPY	11:30:00 AM	82.56	82.53			N/A
4/18/2019	SGDJPY	1:30:00 PM	82.56	82.57			N/A
4/18/2019	SGDJPY	3:30:00 PM	82.57	82.55			N/A
4/18/2019	SILVER	9:30:00 AM	14.76	15.15			N/A
4/18/2019	SILVER	11:30:00 AM	14.8	15.19			N/A
4/18/2019	SILVER	1:30:00 PM	14.78	15.16			N/A
4/18/2019	SILVER	3:30:00 PM	14.8	15.16			N/A
4/18/2019	SPX500.i	9:30:00 AM	2892.6	2893.65			N/A
4/18/2019	SPX500.i	11:30:00 AM	2891.35	2891.9			N/A

4/18/2019	SPX500.i	1:30:00 PM	2897.1	2897.4			N/A
4/18/2019	SPX500.i	3:30:00 PM	2904.6	2902.4			N/A
4/18/2019	UK100.i	9:30:00 AM	7465.28	7466.69			N/A
4/18/2019	UK100.i	11:30:00 AM	7462.11	7460.19			N/A
4/18/2019	UK100.i	1:30:00 PM	7469.53	7467.94			N/A
4/18/2019	UK100.i	3:30:00 PM	7479.94	7476.78			N/A
4/18/2019	USDCAD	9:30:00 AM	1.33571	1.33577			N/A
4/18/2019	USDCAD	11:30:00 AM	1.33633	1.33632			N/A
4/18/2019	USDCAD	1:30:00 PM	1.33713	1.33717			N/A
4/18/2019	USDCAD	3:30:00 PM	1.33883	1.33747			N/A
4/18/2019	USDCAD.fx	9:30:00 AM	1.33573	1.33574			N/A
4/18/2019	USDCAD.fx	11:30:00 AM	1.33634	1.3363			N/A
4/18/2019	USDCAD.fx	1:30:00 PM	1.33716	1.33713			N/A
4/18/2019	USDCAD.fx	3:30:00 PM	1.33881	1.33757			N/A
4/18/2019	USDCHF	9:30:00 AM	1.00977	1.00984			N/A
4/18/2019	USDCHF	11:30:00 AM	1.01045	1.01034			N/A
4/18/2019	USDCHF	1:30:00 PM	1.01101	1.01119			N/A
4/18/2019	USDCHF	3:30:00 PM	1.0132	1.01238			N/A
4/18/2019	USDCHF.fx	9:30:00 AM	1.00981	1.00977			N/A
4/18/2019	USDCHF.fx	11:30:00 AM	1.01049	1.01029			N/A
4/18/2019	USDCHF.fx	1:30:00 PM	1.01105	1.01113			N/A
4/18/2019	USDCHF.fx	3:30:00 PM	1.01318	1.01216			N/A
4/18/2019	USDCZK	9:30:00 AM	22.697	22.709			N/A
4/18/2019	USDCZK	11:30:00 AM	22.813	22.832			N/A
4/18/2019	USDCZK	1:30:00 PM	22.815	22.837			N/A
4/18/2019	USDCZK	3:30:00 PM	22.84	22.854			N/A
4/18/2019	USDCZK.fx	9:30:00 AM	22.7035	22.7024			N/A
4/18/2019	USDCZK.fx	11:30:00 AM	22.8232	22.8241			N/A
4/18/2019	USDCZK.fx	1:30:00 PM	22.823	22.8282			N/A
4/18/2019	USDCZK.fx	3:30:00 PM	22.8463	22.8482			N/A
4/18/2019	USDDKK	9:30:00 AM	6.605	6.6088			N/A
4/18/2019	USDDKK	11:30:00 AM	6.633	6.636			N/A
4/18/2019	USDDKK	1:30:00 PM	6.634	6.6377			N/A
4/18/2019	USDDKK	3:30:00 PM	6.6423	6.6419			N/A

4/18/2019	USDDKK.fx	9:30:00 AM	6.60537	6.60682			N/A
4/18/2019	USDDKK.fx	11:30:00 AM	6.63377	6.63407			N/A
4/18/2019	USDDKK.fx	1:30:00 PM	6.63436	6.63563			N/A
4/18/2019	USDDKK.fx	3:30:00 PM	6.64253	6.6405			N/A
4/18/2019	USDHKD	9:30:00 AM	7.8441	7.8444			N/A
4/18/2019	USDHKD	11:30:00 AM	7.8451	7.8451			N/A
4/18/2019	USDHKD	1:30:00 PM	7.8453	7.8455			N/A
4/18/2019	USDHKD	3:30:00 PM	7.8457	7.8457			N/A
4/18/2019	USDHKD.fx	9:30:00 AM	7.84406	7.84443			N/A
4/18/2019	USDHKD.fx	11:30:00 AM	7.84498	7.84541			N/A
4/18/2019	USDHKD.fx	1:30:00 PM	7.84535	7.84582			N/A
4/18/2019	USDHKD.fx	3:30:00 PM	7.84568	7.84603			N/A
4/18/2019	USDHUF	9:30:00 AM	282.41	282.88			N/A
4/18/2019	USDHUF	11:30:00 AM	284.19	284.63			N/A
4/18/2019	USDHUF	1:30:00 PM	284.28	284.75			N/A
4/18/2019	USDHUF	3:30:00 PM	284.68	284.96			N/A
4/18/2019	USDHUF.fx	9:30:00 AM	282.602	282.692			N/A
4/18/2019	USDHUF.fx	11:30:00 AM	284.424	284.428			N/A
4/18/2019	USDHUF.fx	1:30:00 PM	284.475	284.556			N/A
4/18/2019	USDHUF.fx	3:30:00 PM	284.85	284.872			N/A
4/18/2019	USDINR	9:30:00 AM	64.42	74.4			N/A
4/18/2019	USDINR	11:30:00 AM	64.52	74.5			N/A
4/18/2019	USDINR	1:30:00 PM					N/A
4/18/2019	USDINR	3:30:00 PM					N/A
4/18/2019	USDJPY	9:30:00 AM	111.892	111.905			N/A
4/18/2019	USDJPY	11:30:00 AM	111.856	111.867			N/A
4/18/2019	USDJPY	1:30:00 PM	111.924	111.934			N/A
4/18/2019	USDJPY	3:30:00 PM	111.986	111.923			N/A
4/18/2019	USDJPY.fx	9:30:00 AM	111.898	111.898			N/A
4/18/2019	USDJPY.fx	11:30:00 AM	111.861	111.861			N/A
4/18/2019	USDJPY.fx	1:30:00 PM	111.93	111.927			N/A
4/18/2019	USDJPY.fx	3:30:00 PM	111.99	111.92			N/A
4/18/2019	USDMXN	9:30:00 AM	18.85	18.857			N/A
4/18/2019	USDMXN	11:30:00 AM	18.889	18.894			N/A

4/18/2019	USDMXN	1:30:00 PM	18.869	18.876			N/A
4/18/2019	USDMXN	3:30:00 PM	18.855	18.855			N/A
4/18/2019	USDMXN.fx	9:30:00 AM	18.8539	18.8533			N/A
4/18/2019	USDMXN.fx	11:30:00 AM	18.8933	18.8905			N/A
4/18/2019	USDMXN.fx	1:30:00 PM	18.8719	18.8725			N/A
4/18/2019	USDMXN.fx	3:30:00 PM	18.8577	18.8505			N/A
4/18/2019	USDNOK	9:30:00 AM	8.4863	8.4949			N/A
4/18/2019	USDNOK	11:30:00 AM	8.5551	8.558			N/A
4/18/2019	USDNOK	1:30:00 PM	8.5323	8.5395			N/A
4/18/2019	USDNOK	3:30:00 PM	8.5344	8.5382			N/A
4/18/2019	USDNOK.fx	9:30:00 AM	8.4901	8.49041			N/A
4/18/2019	USDNOK.fx	11:30:00 AM	8.55924	8.55335			N/A
4/18/2019	USDNOK.fx	1:30:00 PM	8.53626	8.53501			N/A
4/18/2019	USDNOK.fx	3:30:00 PM	8.53808	8.53636			N/A
4/18/2019	USDPLN	9:30:00 AM	3.7781	3.7797			N/A
4/18/2019	USDPLN	11:30:00 AM	3.8007	3.8019			N/A
4/18/2019	USDPLN	1:30:00 PM	3.8034	3.8044			N/A
4/18/2019	USDPLN	3:30:00 PM	3.806	3.8068			N/A
4/18/2019	USDPLN.fx	9:30:00 AM	3.77718	3.78053			N/A
4/18/2019	USDPLN.fx	11:30:00 AM	3.80009	3.80273			N/A
4/18/2019	USDPLN.fx	1:30:00 PM	3.80257	3.80526			N/A
4/18/2019	USDPLN.fx	3:30:00 PM	3.80505	3.80788			N/A
4/18/2019	USDRUB	9:30:00 AM					N/A
4/18/2019	USDRUB	11:30:00 AM	63.88	64.276			N/A
4/18/2019	USDRUB	1:30:00 PM	63.82	64.216			N/A
4/18/2019	USDRUB	3:30:00 PM	63.806	64.135			N/A
4/18/2019	USDSEK	9:30:00 AM	9.2394	9.2433			N/A
4/18/2019	USDSEK	11:30:00 AM	9.3287	9.3227			N/A
4/18/2019	USDSEK	1:30:00 PM	9.3133	9.3177			N/A
4/18/2019	USDSEK	3:30:00 PM	9.3203	9.3232	300	300	N/A
4/18/2019	USDSEK.fx	9:30:00 AM	9.24191	9.24144			N/A
4/18/2019	USDSEK.fx	11:30:00 AM	9.33127	9.32101			N/A
4/18/2019	USDSEK.fx	1:30:00 PM	9.31584	9.31595			N/A
4/18/2019	USDSEK.fx	3:30:00 PM	9.32272	9.3214			N/A

4/18/2019	USDSGD	9:30:00 AM	1.3532	1.3534			N/A
4/18/2019	USDSGD	11:30:00 AM	1.3551	1.3554			N/A
4/18/2019	USDSGD	1:30:00 PM	1.3552	1.3555			N/A
4/18/2019	USDSGD	3:30:00 PM	1.3557	1.3559			N/A
4/18/2019	USDSGD.fx	9:30:00 AM	1.3531	1.3536			N/A
4/18/2019	USDSGD.fx	11:30:00 AM	1.35501	1.35544			N/A
4/18/2019	USDSGD.fx	1:30:00 PM	1.35511	1.35555			N/A
4/18/2019	USDSGD.fx	3:30:00 PM	1.35557	1.35588			N/A
4/18/2019	USDZAR	9:30:00 AM	14.0207	14.0333			N/A
4/18/2019	USDZAR	11:30:00 AM	14.0762	14.0912			N/A
4/18/2019	USDZAR	1:30:00 PM	14.0962	14.1135			N/A
4/18/2019	USDZAR	3:30:00 PM	14.079	14.0925			N/A
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4/18/2019	USDZAR.fx	11:30:00 AM					N/A
4/18/2019	USDZAR.fx	1:30:00 PM					N/A
4/18/2019	USDZAR.fx	3:30:00 PM					N/A
4/18/2019	XAUUSD	9:30:00 AM	1271.94	1272.18			N/A
4/18/2019	XAUUSD	11:30:00 AM	1274.71	1275.02			N/A
4/18/2019	XAUUSD	1:30:00 PM	1275.5	1275.83			N/A
4/18/2019	XAUUSD	3:30:00 PM	1275.49	1273.64			N/A
4/18/2019	ZARJPY	9:30:00 AM	7.96	7.98			N/A
4/18/2019	ZARJPY	11:30:00 AM	7.92	7.95			N/A
4/18/2019	ZARJPY	1:30:00 PM	7.92	7.94			N/A
4/18/2019	ZARJPY	3:30:00 PM	7.93	7.95			N/A
4/18/2019	ZARJPY.fx	9:30:00 AM	7.974	7.977			N/A
4/18/2019	ZARJPY.fx	11:30:00 AM	7.939	7.942			N/A
4/18/2019	ZARJPY.fx	1:30:00 PM	7.932	7.936			N/A
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4/19/2019	#ZNGA	1:30:00 PM					N/A
4/19/2019	#ZNGA	3:30:00 PM					N/A
4/19/2019	AUDCAD	9:30:00 AM	0.95612	0.95676			N/A
4/19/2019	AUDCAD	11:30:00 AM	0.95637	0.95713			N/A
4/19/2019	AUDCAD	1:30:00 PM	0.95602	0.9568			N/A
4/19/2019	AUDCAD	3:30:00 PM	0.95618	0.9568			N/A

4/19/2019	AUDCAD.fx	9:30:00 AM	0.95635	0.9565			N/A
4/19/2019	AUDCAD.fx	11:30:00 AM	0.95661	0.95688			N/A
4/19/2019	AUDCAD.fx	1:30:00 PM	0.95629	0.95653			N/A
4/19/2019	AUDCAD.fx	3:30:00 PM	0.95653	0.9565			N/A
4/19/2019	AUDCHF	9:30:00 AM	0.7255	0.72617			N/A
4/19/2019	AUDCHF	11:30:00 AM	0.72466	0.72536			N/A
4/19/2019	AUDCHF	1:30:00 PM	0.72462	0.72538			N/A
4/19/2019	AUDCHF	3:30:00 PM	0.72463	0.72538			N/A
4/19/2019	AUDCHF.fx	9:30:00 AM	0.72574	0.7259			N/A
4/19/2019	AUDCHF.fx	11:30:00 AM	0.72495	0.72509			N/A
4/19/2019	AUDCHF.fx	1:30:00 PM	0.72488	0.72512			N/A
4/19/2019	AUDCHF.fx	3:30:00 PM	0.72494	0.72506			N/A
4/19/2019	AUDCZK	9:30:00 AM	16.326	16.342			N/A
4/19/2019	AUDCZK	11:30:00 AM					N/A
4/19/2019	AUDCZK	1:30:00 PM	16.316	16.333			N/A
4/19/2019	AUDCZK	3:30:00 PM	16.32	16.332			N/A
4/19/2019	AUDDKK	9:30:00 AM	4.7477	4.7524			N/A
4/19/2019	AUDDKK	11:30:00 AM	4.747	4.7517			N/A
4/19/2019	AUDDKK	1:30:00 PM	4.7459	4.7507			N/A
4/19/2019	AUDDKK	3:30:00 PM	4.7469	4.7515			N/A
4/19/2019	AUDHKD	9:30:00 AM	5.6092	5.6125			N/A
4/19/2019	AUDHKD	11:30:00 AM	5.6089	5.6129			N/A
4/19/2019	AUDHKD	1:30:00 PM	5.6069	5.6106			N/A
4/19/2019	AUDHKD	3:30:00 PM	5.607	5.6109			N/A
4/19/2019	AUDHUF	9:30:00 AM	203.46	203.68			N/A
4/19/2019	AUDHUF	11:30:00 AM	203.33	203.58			N/A
4/19/2019	AUDHUF	1:30:00 PM	203.2	203.45			N/A
4/19/2019	AUDHUF	3:30:00 PM	203.44	203.61			N/A
4/19/2019	AUDJPY	9:30:00 AM	80.037	80.098			N/A
4/19/2019	AUDJPY	11:30:00 AM	80.035	80.112			N/A
4/19/2019	AUDJPY	1:30:00 PM	80.001	80.076			N/A
4/19/2019	AUDJPY	3:30:00 PM	80.014	80.085			N/A
4/19/2019	AUDJPY.fx	9:30:00 AM	80.066	80.065			N/A
4/19/2019	AUDJPY.fx	11:30:00 AM	80.064	80.079			N/A

4/19/2019	AUDJPY.fx	1:30:00 PM	80.03	80.045			N/A
4/19/2019	AUDJPY.fx	3:30:00 PM	80.043	80.053			N/A
4/19/2019	AUDMXN	9:30:00 AM	13.437	13.4443			N/A
4/19/2019	AUDMXN	11:30:00 AM	13.4373	13.4479			N/A
4/19/2019	AUDMXN	1:30:00 PM	13.436	13.4463			N/A
4/19/2019	AUDMXN	3:30:00 PM	13.4484	13.4591			N/A
4/19/2019	AUDNOK	9:30:00 AM	6.0843	6.0885			N/A
4/19/2019	AUDNOK	11:30:00 AM	6.0796	6.0845			N/A
4/19/2019	AUDNOK	1:30:00 PM	6.0801	6.0823			N/A
4/19/2019	AUDNOK	3:30:00 PM	6.0814	6.0862			N/A
4/19/2019	AUDNOK.fx	9:30:00 AM	6.0852	6.0877			N/A
4/19/2019	AUDNOK.fx	11:30:00 AM	6.0806	6.0841			N/A
4/19/2019	AUDNOK.fx	1:30:00 PM	6.0804	6.0855			N/A
4/19/2019	AUDNOK.fx	3:30:00 PM	6.0823	6.0851			N/A
4/19/2019	AUDNZD	9:30:00 AM	1.06909	1.06983			N/A
4/19/2019	AUDNZD	11:30:00 AM	1.06874	1.0697			N/A
4/19/2019	AUDNZD	1:30:00 PM	1.06876	1.06973			N/A
4/19/2019	AUDNZD	3:30:00 PM	1.06925	1.07019			N/A
4/19/2019	AUDNZD.fx	9:30:00 AM	1.06948	1.06945			N/A
4/19/2019	AUDNZD.fx	11:30:00 AM	1.06909	1.06934			N/A
4/19/2019	AUDNZD.fx	1:30:00 PM	1.06909	1.06939			N/A
4/19/2019	AUDNZD.fx	3:30:00 PM	1.06961	1.06983			N/A
4/19/2019	AUDPLN	9:30:00 AM	2.7211	2.724			N/A
4/19/2019	AUDPLN	11:30:00 AM	2.7197	2.722			N/A
4/19/2019	AUDPLN	1:30:00 PM	2.7207	2.724			N/A
4/19/2019	AUDPLN	3:30:00 PM	2.7207	2.7238			N/A
4/19/2019	AUDSEK	9:30:00 AM	6.6536	6.6562			N/A
4/19/2019	AUDSEK	11:30:00 AM	6.6471	6.6507			N/A
4/19/2019	AUDSEK	1:30:00 PM	6.6461	6.6481			N/A
4/19/2019	AUDSEK	3:30:00 PM	6.6514	6.6539			N/A
4/19/2019	AUDSEK.fx	9:30:00 AM	6.6483	6.6616			N/A
4/19/2019	AUDSEK.fx	11:30:00 AM	6.6423	6.6555			N/A
4/19/2019	AUDSEK.fx	1:30:00 PM	6.641	6.6557			N/A
4/19/2019	AUDSEK.fx	3:30:00 PM	6.645	6.6599			N/A

4/19/2019	AUDSGD	9:30:00 AM	0.9694	0.9696			N/A
4/19/2019	AUDSGD	11:30:00 AM	0.9691	0.9693			N/A
4/19/2019	AUDSGD	1:30:00 PM	0.9691	0.9693			N/A
4/19/2019	AUDSGD	3:30:00 PM	0.9692	0.9692			N/A
4/19/2019	AUDSGD.fx	9:30:00 AM	0.96944	0.96952			N/A
4/19/2019	AUDSGD.fx	11:30:00 AM	0.96946	0.96973			N/A
4/19/2019	AUDSGD.fx	1:30:00 PM	0.96915	0.96943			N/A
4/19/2019	AUDSGD.fx	3:30:00 PM	0.96929	0.96953			N/A
4/19/2019	AUDUSD	9:30:00 AM	0.71546	0.71551			N/A
4/19/2019	AUDUSD	11:30:00 AM	0.71543	0.71562			N/A
4/19/2019	AUDUSD	1:30:00 PM	0.71513	0.71532			N/A
4/19/2019	AUDUSD	3:30:00 PM	0.71515	0.71532			N/A
4/19/2019	AUDUSD.fx	9:30:00 AM	0.71547	0.7155			N/A
4/19/2019	AUDUSD.fx	11:30:00 AM	0.71547	0.71557			N/A
4/19/2019	AUDUSD.fx	1:30:00 PM	0.71514	0.71529			N/A
4/19/2019	AUDUSD.fx	3:30:00 PM	0.71518	0.71528			N/A
4/19/2019	AUDZAR	9:30:00 AM	10.0408	10.0557			N/A
4/19/2019	AUDZAR	11:30:00 AM	10.055	10.066			N/A
4/19/2019	AUDZAR	1:30:00 PM	10.0382	10.0522			N/A
4/19/2019	AUDZAR	3:30:00 PM	10.0517	10.0676			N/A
4/19/2019	AUS200.i	9:30:00 AM					N/A
4/19/2019	AUS200.i	11:30:00 AM					N/A
4/19/2019	AUS200.i	1:30:00 PM					N/A
4/19/2019	AUS200.i	3:30:00 PM					N/A
4/19/2019	BCHUSD	9:30:00 AM	299.39	310.9			N/A
4/19/2019	BCHUSD	11:30:00 AM	299.48	311.16			N/A
4/19/2019	BCHUSD	1:30:00 PM	299.92	311.3			N/A
4/19/2019	BCHUSD	3:30:00 PM	299.96	311.82			N/A
4/19/2019	CADCHF	9:30:00 AM	0.75855	0.75925			N/A
4/19/2019	CADCHF	11:30:00 AM	0.7574	0.75811			N/A
4/19/2019	CADCHF	1:30:00 PM	0.75765	0.75841			N/A
4/19/2019	CADCHF	3:30:00 PM	0.75766	0.75836			N/A
4/19/2019	CADCHF.fx	9:30:00 AM	0.75881	0.75888			N/A
4/19/2019	CADCHF.fx	11:30:00 AM	0.7577	0.75781			N/A

4/19/2019	CADCHF.fx	1:30:00 PM	0.75791	0.75813			N/A
4/19/2019	CADCHF.fx	3:30:00 PM	0.75797	0.75798			N/A
4/19/2019	CADCZK	9:30:00 AM	17.073	17.09			N/A
4/19/2019	CADCZK	11:30:00 AM					N/A
4/19/2019	CADCZK	1:30:00 PM	17.064	17.082			N/A
4/19/2019	CADCZK	3:30:00 PM	17.066	17.08			N/A
4/19/2019	CADDDKK	9:30:00 AM					N/A
4/19/2019	CADDDKK	11:30:00 AM					N/A
4/19/2019	CADDDKK	1:30:00 PM	4.964	4.967			N/A
4/19/2019	CADDDKK	3:30:00 PM					N/A
4/19/2019	CADHKD	9:30:00 AM	5.8661	5.8701			N/A
4/19/2019	CADHKD	11:30:00 AM	5.8641	5.868			N/A
4/19/2019	CADHKD	1:30:00 PM	5.864	5.8679			N/A
4/19/2019	CADHKD	3:30:00 PM	5.8633	5.8672			N/A
4/19/2019	CADHUF	9:30:00 AM	212.8	212.94			N/A
4/19/2019	CADHUF	11:30:00 AM	212.62	212.79			N/A
4/19/2019	CADHUF	1:30:00 PM	212.55	212.72			N/A
4/19/2019	CADHUF	3:30:00 PM	212.78	212.84			N/A
4/19/2019	CADJPY	9:30:00 AM	83.681	83.758			N/A
4/19/2019	CADJPY	11:30:00 AM	83.658	83.735			N/A
4/19/2019	CADJPY	1:30:00 PM	83.655	83.73			N/A
4/19/2019	CADJPY	3:30:00 PM	83.665	83.734			N/A
4/19/2019	CADJPY.fx	9:30:00 AM	83.713	83.723			N/A
4/19/2019	CADJPY.fx	11:30:00 AM	83.685	83.706			N/A
4/19/2019	CADJPY.fx	1:30:00 PM	83.687	83.698			N/A
4/19/2019	CADJPY.fx	3:30:00 PM	83.694	83.697			N/A
4/19/2019	CADMXN	9:30:00 AM	14.0504	14.0607			N/A
4/19/2019	CADMXN	11:30:00 AM	14.0479	14.0604			N/A
4/19/2019	CADMXN	1:30:00 PM	14.0514	14.0638			N/A
4/19/2019	CADMXN	3:30:00 PM	14.0618	14.0746			N/A
4/19/2019	CADNOK	9:30:00 AM	6.3591	6.3638			N/A
4/19/2019	CADNOK	11:30:00 AM	6.3536	6.3585			N/A
4/19/2019	CADNOK	1:30:00 PM	6.3555	6.3604			N/A
4/19/2019	CADNOK	3:30:00 PM	6.356	6.3605			N/A

4/19/2019	CADPLN	9:30:00 AM	2.8456	2.8475			N/A
4/19/2019	CADPLN	11:30:00 AM	2.8423	2.8442			N/A
4/19/2019	CADPLN	1:30:00 PM	2.8451	2.847			N/A
4/19/2019	CADPLN	3:30:00 PM	2.8448	2.8467			N/A
4/19/2019	CADSEK	9:30:00 AM	6.953	6.9565			N/A
4/19/2019	CADSEK	11:30:00 AM	6.9458	6.9497			N/A
4/19/2019	CADSEK	1:30:00 PM	6.947	6.9508			N/A
4/19/2019	CADSEK	3:30:00 PM	6.9503	6.953			N/A
4/19/2019	CADSGD	9:30:00 AM	1.013	1.0133			N/A
4/19/2019	CADSGD	11:30:00 AM	1.0128	1.0131			N/A
4/19/2019	CADSGD	1:30:00 PM	1.0127	1.013			N/A
4/19/2019	CADSGD	3:30:00 PM	1.0128	1.0132			N/A
4/19/2019	CADZAR	9:30:00 AM	10.4996	10.5175			N/A
4/19/2019	CADZAR	11:30:00 AM	10.5114	10.5238			N/A
4/19/2019	CADZAR	1:30:00 PM	10.4981	10.5136			N/A
4/19/2019	CADZAR	3:30:00 PM	10.5108	10.5285			N/A
4/19/2019	CHFCZK	9:30:00 AM	22.507	22.519			N/A
4/19/2019	CHFCZK	11:30:00 AM					N/A
4/19/2019	CHFCZK	1:30:00 PM	22.516	22.534			N/A
4/19/2019	CHFCZK	3:30:00 PM	22.52	22.53			N/A
4/19/2019	CHFDKK	9:30:00 AM	6.546	6.548			N/A
4/19/2019	CHFDKK	11:30:00 AM	6.55	6.553			N/A
4/19/2019	CHFDKK	1:30:00 PM	6.548	6.551			N/A
4/19/2019	CHFDKK	3:30:00 PM	6.55	6.552			N/A
4/19/2019	CHFDKK.fx	9:30:00 AM	6.5437	6.5502			N/A
4/19/2019	CHFDKK.fx	11:30:00 AM	6.5476	6.555			N/A
4/19/2019	CHFDKK.fx	1:30:00 PM	6.5448	6.5531			N/A
4/19/2019	CHFDKK.fx	3:30:00 PM	6.5475	6.5541			N/A
4/19/2019	CHFHKD	9:30:00 AM	7.7323	7.7354			N/A
4/19/2019	CHFHKD	11:30:00 AM	7.7402	7.744			N/A
4/19/2019	CHFHKD	1:30:00 PM	7.7371	7.741			N/A
4/19/2019	CHFHKD	3:30:00 PM	7.7367	7.7406			N/A
4/19/2019	CHFHUF	9:30:00 AM	280.4	280.74			N/A
4/19/2019	CHFHUF	11:30:00 AM	280.53	280.93			N/A

4/19/2019	CHFHUF	1:30:00 PM	280.34	280.73			N/A
4/19/2019	CHFHUF	3:30:00 PM	280.65	280.9			N/A
4/19/2019	CHFJPY	9:30:00 AM	110.296	110.341			N/A
4/19/2019	CHFJPY	11:30:00 AM	110.405	110.476			N/A
4/19/2019	CHFJPY	1:30:00 PM	110.359	110.435			N/A
4/19/2019	CHFJPY	3:30:00 PM	110.38	110.452			N/A
4/19/2019	CHFJPY.fx	9:30:00 AM	110.322	110.316			N/A
4/19/2019	CHFJPY.fx	11:30:00 AM	110.43	110.45			N/A
4/19/2019	CHFJPY.fx	1:30:00 PM	110.386	110.404			N/A
4/19/2019	CHFJPY.fx	3:30:00 PM	110.405	110.425			N/A
4/19/2019	CHFMXN	9:30:00 AM	18.5201	18.5287			N/A
4/19/2019	CHFMXN	11:30:00 AM	18.5403	18.5566			N/A
4/19/2019	CHFMXN	1:30:00 PM	18.5378	18.5546			N/A
4/19/2019	CHFMXN	3:30:00 PM	18.5528	18.5705			N/A
4/19/2019	CHFNOK	9:30:00 AM	8.3823	8.3893			N/A
4/19/2019	CHFNOK	11:30:00 AM	8.3855	8.3938			N/A
4/19/2019	CHFNOK	1:30:00 PM	8.3854	8.3942			N/A
4/19/2019	CHFNOK	3:30:00 PM	8.3877	8.3947			N/A
4/19/2019	CHFNOK.fx	9:30:00 AM	8.38488	8.3874			N/A
4/19/2019	CHFNOK.fx	11:30:00 AM	8.38846	8.39083			N/A
4/19/2019	CHFNOK.fx	1:30:00 PM	8.38733	8.39212			N/A
4/19/2019	CHFNOK.fx	3:30:00 PM	8.39039	8.39241			N/A
4/19/2019	CHFPLN	9:30:00 AM	3.7504	3.7527			N/A
4/19/2019	CHFPLN	11:30:00 AM	3.7515	3.7535			N/A
4/19/2019	CHFPLN	1:30:00 PM	3.7531	3.7563			N/A
4/19/2019	CHFPLN	3:30:00 PM	3.7534	3.7561			N/A
4/19/2019	CHFPLN.fx	9:30:00 AM	3.74741	3.75573			N/A
4/19/2019	CHFPLN.fx	11:30:00 AM	3.74868	3.75625			N/A
4/19/2019	CHFPLN.fx	1:30:00 PM	3.75004	3.75923			N/A
4/19/2019	CHFPLN.fx	3:30:00 PM	3.7505	3.75894			N/A
4/19/2019	CHFSEK	9:30:00 AM	9.165	9.1677			N/A
4/19/2019	CHFSEK	11:30:00 AM	9.1674	9.1723			N/A
4/19/2019	CHFSEK	1:30:00 PM	9.1653	9.1702			N/A
4/19/2019	CHFSEK	3:30:00 PM	9.1702	9.173			N/A

4/19/2019	CHFSGD	9:30:00 AM	1.3357	1.336			N/A
4/19/2019	CHFSGD	11:30:00 AM	1.3371	1.3376			N/A
4/19/2019	CHFSGD	1:30:00 PM	1.3366	1.3371			N/A
4/19/2019	CHFSGD	3:30:00 PM	1.3369	1.3371			N/A
4/19/2019	CHFSGD.fx	9:30:00 AM	1.33592	1.33589			N/A
4/19/2019	CHFSGD.fx	11:30:00 AM	1.33716	1.3375			N/A
4/19/2019	CHFSGD.fx	1:30:00 PM	1.33674	1.33708			N/A
4/19/2019	CHFSGD.fx	3:30:00 PM	1.33703	1.33729			N/A
4/19/2019	CHFZAR	9:30:00 AM	13.8428	13.8568			N/A
4/19/2019	CHFZAR	11:30:00 AM	13.8776	13.8847			N/A
4/19/2019	CHFZAR	1:30:00 PM	13.8543	13.867			N/A
4/19/2019	CHFZAR	3:30:00 PM	13.8712	13.887			N/A
4/19/2019	CZKJPY	9:30:00 AM					N/A
4/19/2019	CZKJPY	11:30:00 AM					N/A
4/19/2019	CZKJPY	1:30:00 PM					N/A
4/19/2019	CZKJPY	3:30:00 PM	4.902	4.905			N/A
4/19/2019	DAX30.i	9:30:00 AM					N/A
4/19/2019	DAX30.i	11:30:00 AM					N/A
4/19/2019	DAX30.i	1:30:00 PM					N/A
4/19/2019	DAX30.i	3:30:00 PM					N/A
4/19/2019	DJ30.i	9:30:00 AM					N/A
4/19/2019	DJ30.i	11:30:00 AM					N/A
4/19/2019	DJ30.i	1:30:00 PM					N/A
4/19/2019	DJ30.i	3:30:00 PM					N/A
4/19/2019	DKKJPY	9:30:00 AM					N/A
4/19/2019	DKKJPY	11:30:00 AM					N/A
4/19/2019	DKKJPY	1:30:00 PM					N/A
4/19/2019	DKKJPY	3:30:00 PM					N/A
4/19/2019	EURAUD	9:30:00 AM	1.5706	1.57093			N/A
4/19/2019	EURAUD	11:30:00 AM	1.57092	1.57148			N/A
4/19/2019	EURAUD	1:30:00 PM	1.5714	1.57198			N/A
4/19/2019	EURAUD	3:30:00 PM	1.57137	1.57167			N/A
4/19/2019	EURAUD.fx	9:30:00 AM	1.5707	1.57081			N/A
4/19/2019	EURAUD.fx	11:30:00 AM	1.57114	1.57128			N/A

4/19/2019	EURAUD.fx	1:30:00 PM	1.57155	1.57182			N/A
4/19/2019	EURAUD.fx	3:30:00 PM	1.57149	1.57148			N/A
4/19/2019	EURCAD	9:30:00 AM	1.50247	1.50337			N/A
4/19/2019	EURCAD	11:30:00 AM	1.50344	1.50437			N/A
4/19/2019	EURCAD	1:30:00 PM	1.50329	1.5042			N/A
4/19/2019	EURCAD	3:30:00 PM	1.50328	1.50403			N/A
4/19/2019	EURCAD.fx	9:30:00 AM	1.5029	1.50297			N/A
4/19/2019	EURCAD.fx	11:30:00 AM	1.50379	1.50398			N/A
4/19/2019	EURCAD.fx	1:30:00 PM	1.50366	1.50381			N/A
4/19/2019	EURCAD.fx	3:30:00 PM	1.5036	1.50367			N/A
4/19/2019	EURCHF	9:30:00 AM	1.14053	1.14034			N/A
4/19/2019	EURCHF	11:30:00 AM	1.13959	1.1397			N/A
4/19/2019	EURCHF	1:30:00 PM	1.13986	1.14001			N/A
4/19/2019	EURCHF	3:30:00 PM	1.13979	1.1398			N/A
4/19/2019	EURCHF.fx	9:30:00 AM	1.14049	1.14036			N/A
4/19/2019	EURCHF.fx	11:30:00 AM	1.13962	1.13969			N/A
4/19/2019	EURCHF.fx	1:30:00 PM	1.13988	1.14			N/A
4/19/2019	EURCHF.fx	3:30:00 PM	1.13978	1.13979			N/A
4/19/2019	EURCZK	9:30:00 AM	25.65	25.69			N/A
4/19/2019	EURCZK	11:30:00 AM					N/A
4/19/2019	EURCZK	1:30:00 PM					N/A
4/19/2019	EURCZK	3:30:00 PM	25.653	25.685			N/A
4/19/2019	EURDKK	9:30:00 AM	7.4658	7.467			N/A
4/19/2019	EURDKK	11:30:00 AM					N/A
4/19/2019	EURDKK	1:30:00 PM	7.4639	7.4652			N/A
4/19/2019	EURDKK	3:30:00 PM	7.4649	7.4661			N/A
4/19/2019	EURGBP	9:30:00 AM	0.86515	0.86505			N/A
4/19/2019	EURGBP	11:30:00 AM	0.86516	0.86532			N/A
4/19/2019	EURGBP	1:30:00 PM	0.8648	0.86496			N/A
4/19/2019	EURGBP	3:30:00 PM	0.86486	0.86488			N/A
4/19/2019	EURGBP.fx	9:30:00 AM	0.86518	0.86502			N/A
4/19/2019	EURGBP.fx	11:30:00 AM	0.86516	0.8653			N/A
4/19/2019	EURGBP.fx	1:30:00 PM	0.86479	0.86496			N/A
4/19/2019	EURGBP.fx	3:30:00 PM	0.86485	0.86488			N/A

4/19/2019	EURHKD	9:30:00 AM	8.8174	8.823			N/A
4/19/2019	EURHKD	11:30:00 AM	8.8198	8.8255			N/A
4/19/2019	EURHKD	1:30:00 PM	8.8189	8.8247			N/A
4/19/2019	EURHKD	3:30:00 PM	8.8181	8.8228			N/A
4/19/2019	EURHKD.fx	9:30:00 AM	8.82015	8.82013			N/A
4/19/2019	EURHKD.fx	11:30:00 AM	8.82249	8.82286			N/A
4/19/2019	EURHKD.fx	1:30:00 PM	8.8216	8.82209			N/A
4/19/2019	EURHKD.fx	3:30:00 PM	8.82057	8.82021			N/A
4/19/2019	EURHUF	9:30:00 AM	319.73	320.43			N/A
4/19/2019	EURHUF	11:30:00 AM	319.63	320.29			N/A
4/19/2019	EURHUF	1:30:00 PM	319.46	320.11			N/A
4/19/2019	EURHUF	3:30:00 PM	319.81	320.41			N/A
4/19/2019	EURHUF.fx	9:30:00 AM	319.941	320.185			N/A
4/19/2019	EURHUF.fx	11:30:00 AM	319.879	320.198			N/A
4/19/2019	EURHUF.fx	1:30:00 PM	319.762	319.945			N/A
4/19/2019	EURHUF.fx	3:30:00 PM	320.059	320.22			N/A
4/19/2019	EURJPY	9:30:00 AM	125.807	125.822			N/A
4/19/2019	EURJPY	11:30:00 AM	125.85	125.868			N/A
4/19/2019	EURJPY	1:30:00 PM	125.835	125.851			N/A
4/19/2019	EURJPY	3:30:00 PM	125.848	125.84			N/A
4/19/2019	EURJPY.fx	9:30:00 AM	125.809	125.818			N/A
4/19/2019	EURJPY.fx	11:30:00 AM	125.85	125.866			N/A
4/19/2019	EURJPY.fx	1:30:00 PM	125.836	125.85			N/A
4/19/2019	EURJPY.fx	3:30:00 PM	125.847	125.84			N/A
4/19/2019	EURMXN	9:30:00 AM	21.128	21.1327			N/A
4/19/2019	EURMXN	11:30:00 AM	21.1324	21.1527			N/A
4/19/2019	EURMXN	1:30:00 PM	21.1394	21.1592			N/A
4/19/2019	EURMXN	3:30:00 PM	21.1562	21.1712			N/A
4/19/2019	EURMXN.f	9:30:00 AM	21.1276	21.1439			N/A
4/19/2019	EURMXN.f	11:30:00 AM	21.1349	21.1502			N/A
4/19/2019	EURMXN.f	1:30:00 PM	21.1417	21.1577			N/A
4/19/2019	EURMXN.f	3:30:00 PM	21.1586	21.1681			N/A
4/19/2019	EURNOK	9:30:00 AM	9.5586	9.5706			N/A
4/19/2019	EURNOK	11:30:00 AM	9.5544	9.5664			N/A

4/19/2019	EURNOK	1:30:00 PM	9.5579	9.5708			N/A
4/19/2019	EURNOK	3:30:00 PM	9.5576	9.5702			N/A
4/19/2019	EURNOK.fx	9:30:00 AM	9.56331	9.56501			N/A
4/19/2019	EURNOK.fx	11:30:00 AM	9.56014	9.56246			N/A
4/19/2019	EURNOK.fx	1:30:00 PM	9.56254	9.56605			N/A
4/19/2019	EURNOK.fx	3:30:00 PM	9.56255	9.56559			N/A
4/19/2019	EURNZD	9:30:00 AM	1.6801	1.68103			N/A
4/19/2019	EURNZD	11:30:00 AM	1.68018	1.68113			N/A
4/19/2019	EURNZD	1:30:00 PM	1.68068	1.68167			N/A
4/19/2019	EURNZD	3:30:00 PM	1.68132	1.68205			N/A
4/19/2019	EURNZD.fx	9:30:00 AM	1.68045	1.68059			N/A
4/19/2019	EURNZD.fx	11:30:00 AM	1.68052	1.68074			N/A
4/19/2019	EURNZD.fx	1:30:00 PM	1.68103	1.68134			N/A
4/19/2019	EURNZD.fx	3:30:00 PM	1.6816	1.68175			N/A
4/19/2019	EURPLN	9:30:00 AM	4.2769	4.2804			N/A
4/19/2019	EURPLN	11:30:00 AM	4.2755	4.2774			N/A
4/19/2019	EURPLN	1:30:00 PM	4.2785	4.2818			N/A
4/19/2019	EURPLN	3:30:00 PM	4.2782	4.2813			N/A
4/19/2019	EURPLN.fx	9:30:00 AM					N/A
4/19/2019	EURPLN.fx	11:30:00 AM	4.27461	4.27822			N/A
4/19/2019	EURPLN.fx	1:30:00 PM	4.27758	4.28275			N/A
4/19/2019	EURPLN.fx	3:30:00 PM	4.27727	4.2823			N/A
4/19/2019	EURRUB	9:30:00 AM					N/A
4/19/2019	EURRUB	11:30:00 AM	71.55	71.994			N/A
4/19/2019	EURRUB	1:30:00 PM	71.571	72.018			N/A
4/19/2019	EURRUB	3:30:00 PM	71.569	72.004			N/A
4/19/2019	EURSEK	9:30:00 AM	10.4554	10.4594			N/A
4/19/2019	EURSEK	11:30:00 AM	10.4488	10.4542			N/A
4/19/2019	EURSEK	1:30:00 PM	10.4501	10.4522			N/A
4/19/2019	EURSEK	3:30:00 PM	10.4568	10.46			N/A
4/19/2019	EURSEK.fx	9:30:00 AM	10.45608	10.45791			N/A
4/19/2019	EURSEK.fx	11:30:00 AM	10.45036	10.45272			N/A
4/19/2019	EURSEK.fx	1:30:00 PM	10.45109	10.45472			N/A
4/19/2019	EURSEK.fx	3:30:00 PM	10.45582	10.4603			N/A

4/19/2019	EURSGD	9:30:00 AM	1.523	1.5231			N/A
4/19/2019	EURSGD	11:30:00 AM	1.5235	1.5235			N/A
4/19/2019	EURSGD	1:30:00 PM	1.5231	1.5241			N/A
4/19/2019	EURSGD	3:30:00 PM	1.5237	1.5244			N/A
4/19/2019	EURSGD.fx	9:30:00 AM	1.52338	1.52353			N/A
4/19/2019	EURSGD.fx	11:30:00 AM	1.5239	1.52408			N/A
4/19/2019	EURSGD.fx	1:30:00 PM					N/A
4/19/2019	EURSGD.fx	3:30:00 PM	1.52397	1.52402			N/A
4/19/2019	EURUSD	9:30:00 AM	1.12408	1.12421			N/A
4/19/2019	EURUSD	11:30:00 AM	1.12445	1.12463			N/A
4/19/2019	EURUSD	1:30:00 PM	1.12429	1.12447			N/A
4/19/2019	EURUSD	3:30:00 PM	1.12427	1.12427			N/A
4/19/2019	EURUSD.fx	9:30:00 AM	1.12427	1.1243			N/A
4/19/2019	EURUSD.fx	11:30:00 AM	1.12465	1.12474			N/A
4/19/2019	EURUSD.fx	1:30:00 PM	1.12449	1.12457			N/A
4/19/2019	EURUSD.fx	3:30:00 PM	1.12445	1.12439			N/A
4/19/2019	EURZAR	9:30:00 AM	15.7893	15.8104			N/A
4/19/2019	EURZAR	11:30:00 AM	15.8179	15.8283			N/A
4/19/2019	EURZAR	1:30:00 PM	15.7961	15.8128			N/A
4/19/2019	EURZAR	3:30:00 PM	15.8147	15.8336			N/A
4/19/2019	EURZAR.fx	9:30:00 AM	15.78717	15.81231			N/A
4/19/2019	EURZAR.fx	11:30:00 AM	15.81558	15.8298			N/A
4/19/2019	EURZAR.fx	1:30:00 PM	15.79356	15.81405			N/A
4/19/2019	EURZAR.fx	3:30:00 PM	15.81323	15.83507			N/A
4/19/2019	GBPAUD	9:30:00 AM	1.81615	1.81664			N/A
4/19/2019	GBPAUD	11:30:00 AM	1.81611	1.817			N/A
4/19/2019	GBPAUD	1:30:00 PM	1.81737	1.81833			N/A
4/19/2019	GBPAUD	3:30:00 PM	1.81732	1.81808			N/A
4/19/2019	GBPAUD.fx	9:30:00 AM	1.81645	1.81636			N/A
4/19/2019	GBPAUD.fx	11:30:00 AM	1.81653	1.8166			N/A
4/19/2019	GBPAUD.fx	1:30:00 PM	1.81758	1.81813			N/A
4/19/2019	GBPAUD.fx	3:30:00 PM	1.81759	1.81776			N/A
4/19/2019	GBPCAD	9:30:00 AM	1.73698	1.73742			N/A
4/19/2019	GBPCAD	11:30:00 AM	1.7376	1.73846			N/A

4/19/2019	GBPCAD	1:30:00 PM	1.73822	1.73915			N/A
4/19/2019	GBPCAD	3:30:00 PM	1.73811	1.73899			N/A
4/19/2019	GBPCAD.fx	9:30:00 AM	1.73732	1.73708			N/A
4/19/2019	GBPCAD.fx	11:30:00 AM	1.73791	1.7381			N/A
4/19/2019	GBPCAD.fx	1:30:00 PM	1.73845	1.73896			N/A
4/19/2019	GBPCAD.fx	3:30:00 PM	1.73843	1.7387			N/A
4/19/2019	GBPCHF	9:30:00 AM	1.31826	1.3184			N/A
4/19/2019	GBPCHF	11:30:00 AM	1.31691	1.31738			N/A
4/19/2019	GBPCHF	1:30:00 PM	1.31775	1.31829			N/A
4/19/2019	GBPCHF	3:30:00 PM	1.31763	1.31812			N/A
4/19/2019	GBPCHF.fx	9:30:00 AM	1.31826	1.31821			N/A
4/19/2019	GBPCHF.fx	11:30:00 AM	1.317	1.31727			N/A
4/19/2019	GBPCHF.fx	1:30:00 PM	1.31779	1.31818			N/A
4/19/2019	GBPCHF.fx	3:30:00 PM	1.31773	1.31802			N/A
4/19/2019	GBPCZK	9:30:00 AM	29.663	29.682			N/A
4/19/2019	GBPCZK	11:30:00 AM	29.652	29.676			N/A
4/19/2019	GBPCZK	1:30:00 PM	29.668	29.692			N/A
4/19/2019	GBPCZK	3:30:00 PM	29.672	29.685			N/A
4/19/2019	GBPDKK	9:30:00 AM	8.627	8.636			N/A
4/19/2019	GBPDKK	11:30:00 AM	8.623	8.635			N/A
4/19/2019	GBPDKK	1:30:00 PM	8.627	8.638			N/A
4/19/2019	GBPDKK	3:30:00 PM	8.629	8.639			N/A
4/19/2019	GBPDKK.fx	9:30:00 AM	8.6236	8.6371			N/A
4/19/2019	GBPDKK.fx	11:30:00 AM	8.6211	8.6363			N/A
4/19/2019	GBPDKK.fx	1:30:00 PM	8.6247	8.6396			N/A
4/19/2019	GBPDKK.fx	3:30:00 PM	8.6261	8.6402			N/A
4/19/2019	GBPHKD	9:30:00 AM	10.1905	10.195			N/A
4/19/2019	GBPHKD	11:30:00 AM	10.1912	10.1971			N/A
4/19/2019	GBPHKD	1:30:00 PM	10.1942	10.1999			N/A
4/19/2019	GBPHKD	3:30:00 PM	10.1929	10.1986			N/A
4/19/2019	GBPHUF	9:30:00 AM	369.58	369.95			N/A
4/19/2019	GBPHUF	11:30:00 AM	369.39	369.89			N/A
4/19/2019	GBPHUF	1:30:00 PM	369.4	369.87			N/A
4/19/2019	GBPHUF	3:30:00 PM	369.8	370.08			N/A

4/19/2019	GBPJPY	9:30:00 AM	145.425	145.44			N/A
4/19/2019	GBPJPY	11:30:00 AM	145.435	145.488			N/A
4/19/2019	GBPJPY	1:30:00 PM	145.476	145.528			N/A
4/19/2019	GBPJPY	3:30:00 PM	145.486	145.531			N/A
4/19/2019	GBPJPY.fx	9:30:00 AM	145.441	145.42			N/A
4/19/2019	GBPJPY.fx	11:30:00 AM	145.454	145.47			N/A
4/19/2019	GBPJPY.fx	1:30:00 PM	145.486	145.521			N/A
4/19/2019	GBPJPY.fx	3:30:00 PM	145.499	145.52			N/A
4/19/2019	GBPMXN	9:30:00 AM	24.4117	24.4186			N/A
4/19/2019	GBPMXN	11:30:00 AM	24.4143	24.4314			N/A
4/19/2019	GBPMXN	1:30:00 PM	24.4288	24.4447			N/A
4/19/2019	GBPMXN	3:30:00 PM	24.448	24.4635			N/A
4/19/2019	GBPNOK	9:30:00 AM	11.0515	11.0605			N/A
4/19/2019	GBPNOK	11:30:00 AM	11.0441	11.0568			N/A
4/19/2019	GBPNOK	1:30:00 PM	11.0521	11.0642			N/A
4/19/2019	GBPNOK	3:30:00 PM	11.0535	11.0637			N/A
4/19/2019	GBPNOK.fx	9:30:00 AM	11.05549	11.05634			N/A
4/19/2019	GBPNOK.fx	11:30:00 AM	11.048	11.05291			N/A
4/19/2019	GBPNOK.fx	1:30:00 PM	11.05487	11.06142			N/A
4/19/2019	GBPNOK.fx	3:30:00 PM	11.05687	11.06049			N/A
4/19/2019	GBPNZD	9:30:00 AM	1.94239	1.94275			N/A
4/19/2019	GBPNZD	11:30:00 AM	1.94201	1.94285			N/A
4/19/2019	GBPNZD	1:30:00 PM	1.94335	1.94425			N/A
4/19/2019	GBPNZD	3:30:00 PM	1.94403	1.94489			N/A
4/19/2019	GBPNZD.fx	9:30:00 AM	1.94259	1.9425			N/A
4/19/2019	GBPNZD.fx	11:30:00 AM	1.94223	1.94258			N/A
4/19/2019	GBPNZD.fx	1:30:00 PM	1.94339	1.94417			N/A
4/19/2019	GBPNZD.fx	3:30:00 PM	1.94419	1.94476			N/A
4/19/2019	GBPPLN	9:30:00 AM	4.9454	4.9462			N/A
4/19/2019	GBPPLN	11:30:00 AM	4.9418	4.9427			N/A
4/19/2019	GBPPLN	1:30:00 PM	4.9478	4.9497			N/A
4/19/2019	GBPPLN	3:30:00 PM	4.9478	4.9491			N/A
4/19/2019	GBPPLN.fx	9:30:00 AM	4.94246	4.94904			N/A
4/19/2019	GBPPLN.fx	11:30:00 AM	4.93921	4.94542			N/A

4/19/2019	GBPPLN.fx	1:30:00 PM	4.94434	4.95341			N/A
4/19/2019	GBPPLN.fx	3:30:00 PM	4.9444	4.95237			N/A
4/19/2019	GBPSEK	9:30:00 AM	12.0846	12.0909			N/A
4/19/2019	GBPSEK	11:30:00 AM	12.075	12.0845			N/A
4/19/2019	GBPSEK	1:30:00 PM	12.0811	12.0913			N/A
4/19/2019	GBPSEK	3:30:00 PM	12.0889	12.096			N/A
4/19/2019	GBPSEK.fx	9:30:00 AM	12.07949	12.09628			N/A
4/19/2019	GBPSEK.fx	11:30:00 AM	12.06994	12.08914			N/A
4/19/2019	GBPSEK.fx	1:30:00 PM	12.07544	12.09646			N/A
4/19/2019	GBPSEK.fx	3:30:00 PM	12.07976	12.10377			N/A
4/19/2019	GBPSGD	9:30:00 AM	1.7608	1.7612			N/A
4/19/2019	GBPSGD	11:30:00 AM	1.761	1.7619			N/A
4/19/2019	GBPSGD	1:30:00 PM	1.7618	1.7626			N/A
4/19/2019	GBPSGD	3:30:00 PM	1.7618	1.7626			N/A
4/19/2019	GBPSGD.fx	9:30:00 AM	1.75884	1.76312			N/A
4/19/2019	GBPSGD.fx	11:30:00 AM	1.75906	1.76381			N/A
4/19/2019	GBPSGD.fx	1:30:00 PM	1.75982	1.76451			N/A
4/19/2019	GBPSGD.fx	3:30:00 PM	1.75978	1.76446			N/A
4/19/2019	GBPUSD	9:30:00 AM	1.29969	1.29945			N/A
4/19/2019	GBPUSD	11:30:00 AM	1.29975	1.29988			N/A
4/19/2019	GBPUSD	1:30:00 PM	1.30016	1.30028			N/A
4/19/2019	GBPUSD	3:30:00 PM	1.30005	1.30014			N/A
4/19/2019	GBPUSD.fx	9:30:00 AM	1.29972	1.29943			N/A
4/19/2019	GBPUSD.fx	11:30:00 AM	1.29978	1.29984			N/A
4/19/2019	GBPUSD.fx	1:30:00 PM	1.3001	1.30033			N/A
4/19/2019	GBPUSD.fx	3:30:00 PM	1.30007	1.30014			N/A
4/19/2019	GBPZAR	9:30:00 AM	18.2504	18.2775			N/A
4/19/2019	GBPZAR	11:30:00 AM	18.2778	18.2966			N/A
4/19/2019	GBPZAR	1:30:00 PM	18.2606	18.2873			N/A
4/19/2019	GBPZAR	3:30:00 PM	18.281	18.3114			N/A
4/19/2019	GBPZAR.fx	9:30:00 AM	18.2543	18.2725			N/A
4/19/2019	GBPZAR.fx	11:30:00 AM	18.2813	18.2924			N/A
4/19/2019	GBPZAR.fx	1:30:00 PM	18.2628	18.2835			N/A
4/19/2019	GBPZAR.fx	3:30:00 PM	18.2859	18.3067			N/A

4/19/2019	GOLD	9:30:00 AM					N/A
4/19/2019	GOLD	11:30:00 AM					N/A
4/19/2019	GOLD	1:30:00 PM					N/A
4/19/2019	GOLD	3:30:00 PM					N/A
4/19/2019	HKDJPY	9:30:00 AM	14.26	14.27			N/A
4/19/2019	HKDJPY	11:30:00 AM	14.27	14.28			N/A
4/19/2019	HKDJPY	1:30:00 PM	14.27	14.27			N/A
4/19/2019	HKDJPY	3:30:00 PM	14.26	14.28			N/A
4/19/2019	HKDJPY.fx	9:30:00 AM	14.26	14.268			N/A
4/19/2019	HKDJPY.fx	11:30:00 AM	14.26	14.269			N/A
4/19/2019	HKDJPY.fx	1:30:00 PM	14.259	14.268			N/A
4/19/2019	HKDJPY.fx	3:30:00 PM	14.263	14.271			N/A
4/19/2019	HUFJPY	9:30:00 AM	0.3934	0.3937			N/A
4/19/2019	HUFJPY	11:30:00 AM	0.3935	0.3938			N/A
4/19/2019	HUFJPY	1:30:00 PM	0.3937	0.394			N/A
4/19/2019	HUFJPY	3:30:00 PM	0.3936	0.3939			N/A
4/19/2019	JP225.i	9:30:00 AM					N/A
4/19/2019	JP225.i	11:30:00 AM					N/A
4/19/2019	JP225.i	1:30:00 PM					N/A
4/19/2019	JP225.i	3:30:00 PM					N/A
4/19/2019	MXNJPY	9:30:00 AM	5.95	5.97			N/A
4/19/2019	MXNJPY	11:30:00 AM	5.95	5.96			N/A
4/19/2019	MXNJPY	1:30:00 PM					N/A
4/19/2019	MXNJPY	3:30:00 PM	5.95	5.96			N/A
4/19/2019	NASDAQ.i	9:30:00 AM					N/A
4/19/2019	NASDAQ.i	11:30:00 AM					N/A
4/19/2019	NASDAQ.i	1:30:00 PM					N/A
4/19/2019	NASDAQ.i	3:30:00 PM					N/A
4/19/2019	NOKJPY	9:30:00 AM	13.15	13.17			N/A
4/19/2019	NOKJPY	11:30:00 AM					N/A
4/19/2019	NOKJPY	1:30:00 PM	13.14	13.18			N/A
4/19/2019	NOKJPY	3:30:00 PM	13.15	13.18			N/A
4/19/2019	NOKJPY.fx	9:30:00 AM	13.15	13.16			N/A
4/19/2019	NOKJPY.fx	11:30:00 AM					N/A

4/19/2019	NOKJPY.fx	1:30:00 PM	13.152	13.163			N/A
4/19/2019	NOKJPY.fx	3:30:00 PM	13.154	13.163			N/A
4/19/2019	NZDCAD	9:30:00 AM	0.89398	0.8947			N/A
4/19/2019	NZDCAD	11:30:00 AM	0.89448	0.89523			N/A
4/19/2019	NZDCAD	1:30:00 PM	0.89409	0.89481			N/A
4/19/2019	NZDCAD	3:30:00 PM	0.89377	0.8945			N/A
4/19/2019	NZDCAD.fx	9:30:00 AM	0.89423	0.89443			N/A
4/19/2019	NZDCAD.fx	11:30:00 AM	0.89473	0.89498			N/A
4/19/2019	NZDCAD.fx	1:30:00 PM	0.89436	0.89453			N/A
4/19/2019	NZDCAD.fx	3:30:00 PM	0.89402	0.89424			N/A
4/19/2019	NZDCHF	9:30:00 AM	0.67837	0.67897			N/A
4/19/2019	NZDCHF	11:30:00 AM	0.67771	0.67844			N/A
4/19/2019	NZDCHF	1:30:00 PM	0.67768	0.67846			N/A
4/19/2019	NZDCHF	3:30:00 PM	0.67738	0.67812			N/A
4/19/2019	NZDCHF.fx	9:30:00 AM	0.67864	0.67868			N/A
4/19/2019	NZDCHF.fx	11:30:00 AM	0.67799	0.67815			N/A
4/19/2019	NZDCHF.fx	1:30:00 PM	0.67797	0.67816			N/A
4/19/2019	NZDCHF.fx	3:30:00 PM	0.67768	0.6778			N/A
4/19/2019	NZDCZK	9:30:00 AM	15.267	15.28			N/A
4/19/2019	NZDCZK	11:30:00 AM					N/A
4/19/2019	NZDCZK	1:30:00 PM					N/A
4/19/2019	NZDCZK	3:30:00 PM	15.258	15.266			N/A
4/19/2019	NZDDKK	9:30:00 AM					N/A
4/19/2019	NZDDKK	11:30:00 AM					N/A
4/19/2019	NZDDKK	1:30:00 PM					N/A
4/19/2019	NZDDKK	3:30:00 PM	4.438	4.441			N/A
4/19/2019	NZDHKD	9:30:00 AM	5.2451	5.248			N/A
4/19/2019	NZDHKD	11:30:00 AM	5.2463	5.2492			N/A
4/19/2019	NZDHKD	1:30:00 PM	5.2435	5.2464			N/A
4/19/2019	NZDHKD	3:30:00 PM	5.242	5.2448			N/A
4/19/2019	NZDHUF	9:30:00 AM	190.22	190.46			N/A
4/19/2019	NZDHUF	11:30:00 AM					N/A
4/19/2019	NZDHUF	1:30:00 PM	190.01	190.3			N/A
4/19/2019	NZDHUF	3:30:00 PM	190.14	190.35			N/A

4/19/2019	NZDJPY	9:30:00 AM	74.828	74.901			N/A
4/19/2019	NZDJPY	11:30:00 AM	74.85	74.929			N/A
4/19/2019	NZDJPY	1:30:00 PM	74.817	74.894			N/A
4/19/2019	NZDJPY	3:30:00 PM	74.797	74.869			N/A
4/19/2019	NZDJPY.fx	9:30:00 AM	74.859	74.87			N/A
4/19/2019	NZDJPY.fx	11:30:00 AM	74.876	74.901			N/A
4/19/2019	NZDJPY.fx	1:30:00 PM	74.843	74.866			N/A
4/19/2019	NZDJPY.fx	3:30:00 PM	74.824	74.842			N/A
4/19/2019	NZDMXN	9:30:00 AM	12.565	12.5695			N/A
4/19/2019	NZDMXN	11:30:00 AM	12.5693	12.5758			N/A
4/19/2019	NZDMXN	1:30:00 PM	12.5671	12.5736			N/A
4/19/2019	NZDMXN	3:30:00 PM	12.5729	12.5796			N/A
4/19/2019	NZDNOK	9:30:00 AM	5.6858	5.6897			N/A
4/19/2019	NZDNOK	11:30:00 AM	5.6842	5.6881			N/A
4/19/2019	NZDNOK	1:30:00 PM	5.6834	5.6872			N/A
4/19/2019	NZDNOK	3:30:00 PM	5.6819	5.6853			N/A
4/19/2019	NZDPLN	9:30:00 AM	2.5442	2.5456			N/A
4/19/2019	NZDPLN	11:30:00 AM	2.5429	2.5442			N/A
4/19/2019	NZDPLN	1:30:00 PM	2.5442	2.5456			N/A
4/19/2019	NZDPLN	3:30:00 PM	2.5438	2.545			N/A
4/19/2019	NZDSEK	9:30:00 AM	6.2149	6.2217			N/A
4/19/2019	NZDSEK	11:30:00 AM	6.212	6.2186			N/A
4/19/2019	NZDSEK	1:30:00 PM	6.2103	6.2172			N/A
4/19/2019	NZDSEK	3:30:00 PM	6.2106	6.2168			N/A
4/19/2019	NZDSGD	9:30:00 AM	0.9062	0.9069			N/A
4/19/2019	NZDSGD	11:30:00 AM	0.9064	0.907			N/A
4/19/2019	NZDSGD	1:30:00 PM	0.9062	0.9069			N/A
4/19/2019	NZDSGD	3:30:00 PM	0.906	0.9066			N/A
4/19/2019	NZDSGD.fx	9:30:00 AM	0.90618	0.90688			N/A
4/19/2019	NZDSGD.fx	11:30:00 AM	0.9064	0.90722			N/A
4/19/2019	NZDSGD.fx	1:30:00 PM	0.90612	0.90696			N/A
4/19/2019	NZDSGD.fx	3:30:00 PM	0.90584	0.90662			N/A
4/19/2019	NZDUSD	9:30:00 AM	0.66886	0.66903			N/A
4/19/2019	NZDUSD	11:30:00 AM	0.66903	0.66923			N/A

4/19/2019	NZDUSD	1:30:00 PM	0.66874	0.66893			N/A
4/19/2019	NZDUSD	3:30:00 PM	0.66848	0.66865			N/A
4/19/2019	NZDUSD.fx	9:30:00 AM	0.66893	0.66907			N/A
4/19/2019	NZDUSD.fx	11:30:00 AM	0.66907	0.66928			N/A
4/19/2019	NZDUSD.fx	1:30:00 PM	0.66878	0.66898			N/A
4/19/2019	NZDUSD.fx	3:30:00 PM	0.66851	0.6687			N/A
4/19/2019	NZDZAR	9:30:00 AM	9.3867	9.4047			N/A
4/19/2019	NZDZAR	11:30:00 AM	9.4025	9.4149			N/A
4/19/2019	NZDZAR	1:30:00 PM	9.3858	9.402			N/A
4/19/2019	NZDZAR	3:30:00 PM	9.3952	9.4129			N/A
4/19/2019	SEKJPY	9:30:00 AM	12.03	12.04			N/A
4/19/2019	SEKJPY	11:30:00 AM	12.05	12.06			N/A
4/19/2019	SEKJPY	1:30:00 PM	12.04	12.05			N/A
4/19/2019	SEKJPY	3:30:00 PM	12.03	12.04			N/A
4/19/2019	SEKJPY.fx	9:30:00 AM	12.021	12.042			N/A
4/19/2019	SEKJPY.fx	11:30:00 AM	12.031	12.052			N/A
4/19/2019	SEKJPY.fx	1:30:00 PM	12.028	12.05			N/A
4/19/2019	SEKJPY.fx	3:30:00 PM	12.021	12.044			N/A
4/19/2019	SGDJPY	9:30:00 AM	82.6	82.59			N/A
4/19/2019	SGDJPY	11:30:00 AM	82.58	82.59			N/A
4/19/2019	SGDJPY	1:30:00 PM	82.55	82.58			N/A
4/19/2019	SGDJPY	3:30:00 PM	82.55	82.58			N/A
4/19/2019	SILVER	9:30:00 AM					N/A
4/19/2019	SILVER	11:30:00 AM					N/A
4/19/2019	SILVER	1:30:00 PM					N/A
4/19/2019	SILVER	3:30:00 PM					N/A
4/19/2019	SPX500.i	9:30:00 AM					N/A
4/19/2019	SPX500.i	11:30:00 AM					N/A
4/19/2019	SPX500.i	1:30:00 PM					N/A
4/19/2019	SPX500.i	3:30:00 PM					N/A
4/19/2019	UK100.i	9:30:00 AM					N/A
4/19/2019	UK100.i	11:30:00 AM					N/A
4/19/2019	UK100.i	1:30:00 PM					N/A
4/19/2019	UK100.i	3:30:00 PM					N/A

4/19/2019	USDCAD	9:30:00 AM	1.33675	1.33693			N/A
4/19/2019	USDCAD	11:30:00 AM	1.33718	1.33734			N/A
4/19/2019	USDCAD	1:30:00 PM	1.33723	1.33739			N/A
4/19/2019	USDCAD	3:30:00 PM	1.3373	1.33739			N/A
4/19/2019	USDCAD.fx	9:30:00 AM	1.33678	1.3369			N/A
4/19/2019	USDCAD.fx	11:30:00 AM	1.33714	1.33738			N/A
4/19/2019	USDCAD.fx	1:30:00 PM	1.33721	1.3374			N/A
4/19/2019	USDCAD.fx	3:30:00 PM	1.33725	1.33742			N/A
4/19/2019	USDCHF	9:30:00 AM	1.01446	1.01435			N/A
4/19/2019	USDCHF	11:30:00 AM	1.01324	1.01334			N/A
4/19/2019	USDCHF	1:30:00 PM	1.01362	1.01378			N/A
4/19/2019	USDCHF	3:30:00 PM	1.01358	1.01374			N/A
4/19/2019	USDCHF.fx	9:30:00 AM	1.01442	1.01434			N/A
4/19/2019	USDCHF.fx	11:30:00 AM	1.01325	1.01334			N/A
4/19/2019	USDCHF.fx	1:30:00 PM	1.01359	1.01381			N/A
4/19/2019	USDCHF.fx	3:30:00 PM	1.01359	1.01372			N/A
4/19/2019	USDCZK	9:30:00 AM	22.84	22.863			N/A
4/19/2019	USDCZK	11:30:00 AM	22.83	22.854			N/A
4/19/2019	USDCZK	1:30:00 PM					N/A
4/19/2019	USDCZK	3:30:00 PM	22.841	22.856			N/A
4/19/2019	USDCZK.fx	9:30:00 AM	22.8481	22.8568			N/A
4/19/2019	USDCZK.fx	11:30:00 AM	22.8364	22.8468			N/A
4/19/2019	USDCZK.fx	1:30:00 PM					N/A
4/19/2019	USDCZK.fx	3:30:00 PM	22.8487	22.8493			N/A
4/19/2019	USDDKK	9:30:00 AM	6.64	6.644			N/A
4/19/2019	USDDKK	11:30:00 AM	6.6369	6.6414			N/A
4/19/2019	USDDKK	1:30:00 PM					N/A
4/19/2019	USDDKK	3:30:00 PM	6.6392	6.6428			N/A
4/19/2019	USDDKK.fx	9:30:00 AM	6.64047	6.642			N/A
4/19/2019	USDDKK.fx	11:30:00 AM	6.63699	6.63961			N/A
4/19/2019	USDDKK.fx	1:30:00 PM					N/A
4/19/2019	USDDKK.fx	3:30:00 PM	6.63944	6.64102			N/A
4/19/2019	USDHKD	9:30:00 AM	7.8449	7.8452			N/A
4/19/2019	USDHKD	11:30:00 AM	7.8444	7.8447			N/A

4/19/2019	USDHKD	1:30:00 PM					N/A
4/19/2019	USDHKD	3:30:00 PM	7.8442	7.8446			N/A
4/19/2019	USDHKD.fx	9:30:00 AM	7.84482	7.84538			N/A
4/19/2019	USDHKD.fx	11:30:00 AM	7.84427	7.84479			N/A
4/19/2019	USDHKD.fx	1:30:00 PM					N/A
4/19/2019	USDHKD.fx	3:30:00 PM					N/A
4/19/2019	USDHUF	9:30:00 AM	284.43	284.9			N/A
4/19/2019	USDHUF	11:30:00 AM	284.31	284.8			N/A
4/19/2019	USDHUF	1:30:00 PM	284.19	284.69			N/A
4/19/2019	USDHUF	3:30:00 PM	284.5	284.89			N/A
4/19/2019	USDHUF.fx	9:30:00 AM	284.626	284.7			N/A
4/19/2019	USDHUF.fx	11:30:00 AM	284.455	284.637			N/A
4/19/2019	USDHUF.fx	1:30:00 PM	284.405	284.472			N/A
4/19/2019	USDHUF.fx	3:30:00 PM	284.716	284.735			N/A
4/19/2019	USDINR	9:30:00 AM					N/A
4/19/2019	USDINR	11:30:00 AM					N/A
4/19/2019	USDINR	1:30:00 PM					N/A
4/19/2019	USDINR	3:30:00 PM					N/A
4/19/2019	USDJPY	9:30:00 AM	111.909	111.925			N/A
4/19/2019	USDJPY	11:30:00 AM	111.909	111.926			N/A
4/19/2019	USDJPY	1:30:00 PM	111.911	111.926			N/A
4/19/2019	USDJPY	3:30:00 PM	111.926	111.937			N/A
4/19/2019	USDJPY.fx	9:30:00 AM	111.915	111.918			N/A
4/19/2019	USDJPY.fx	11:30:00 AM	111.912	111.921			N/A
4/19/2019	USDJPY.fx	1:30:00 PM	111.915	111.92			N/A
4/19/2019	USDJPY.fx	3:30:00 PM	111.93	111.931			N/A
4/19/2019	USDMXN	9:30:00 AM	18.795	18.798			N/A
4/19/2019	USDMXN	11:30:00 AM	18.793	18.802			N/A
4/19/2019	USDMXN	1:30:00 PM	18.802	18.81			N/A
4/19/2019	USDMXN	3:30:00 PM	18.816	18.822			N/A
4/19/2019	USDMXN.fx	9:30:00 AM	18.7851	18.8033			N/A
4/19/2019	USDMXN.fx	11:30:00 AM	18.7918	18.8034			N/A
4/19/2019	USDMXN.fx	1:30:00 PM	18.7989	18.8136			N/A
4/19/2019	USDMXN.fx	3:30:00 PM	18.8152	18.8259			N/A

4/19/2019	USDNOK	9:30:00 AM	8.5029	8.5118			N/A
4/19/2019	USDNOK	11:30:00 AM	8.4969	8.5061			N/A
4/19/2019	USDNOK	1:30:00 PM	8.5006	8.51			N/A
4/19/2019	USDNOK	3:30:00 PM	8.5022	8.5105			N/A
4/19/2019	USDNOK.fx	9:30:00 AM	8.50648	8.50732			N/A
4/19/2019	USDNOK.fx	11:30:00 AM	8.50077	8.5019			N/A
4/19/2019	USDNOK.fx	1:30:00 PM	8.50366	8.50648			N/A
4/19/2019	USDNOK.fx	3:30:00 PM	8.50545	8.50636			N/A
4/19/2019	USDPLN	9:30:00 AM	3.8047	3.8065			N/A
4/19/2019	USDPLN	11:30:00 AM	3.8022	3.8026			N/A
4/19/2019	USDPLN	1:30:00 PM	3.8053	3.8071			N/A
4/19/2019	USDPLN	3:30:00 PM	3.8055	3.8066			N/A
4/19/2019	USDPLN.fx	9:30:00 AM	3.80368	3.80742			N/A
4/19/2019	USDPLN.fx	11:30:00 AM	3.80109	3.80363			N/A
4/19/2019	USDPLN.fx	1:30:00 PM	3.80419	3.80825			N/A
4/19/2019	USDPLN.fx	3:30:00 PM	3.80432	3.80779			N/A
4/19/2019	USDRUB	9:30:00 AM					N/A
4/19/2019	USDRUB	11:30:00 AM	63.728	64.117			N/A
4/19/2019	USDRUB	1:30:00 PM	63.753	64.148			N/A
4/19/2019	USDRUB	3:30:00 PM	63.752	64.148			N/A
4/19/2019	USDSEK	9:30:00 AM	9.2987	9.3029			N/A
4/19/2019	USDSEK	11:30:00 AM	9.2901	9.295			N/A
4/19/2019	USDSEK	1:30:00 PM	9.2924	9.2975			N/A
4/19/2019	USDSEK	3:30:00 PM	9.2992	9.3022			N/A
4/19/2019	USDSEK.fx	9:30:00 AM	9.30043	9.30118			N/A
4/19/2019	USDSEK.fx	11:30:00 AM	9.29224	9.29362			N/A
4/19/2019	USDSEK.fx	1:30:00 PM	9.29426	9.29628			N/A
4/19/2019	USDSEK.fx	3:30:00 PM	9.30004	9.30237			N/A
4/19/2019	USDSGD	9:30:00 AM	1.3549	1.3554			N/A
4/19/2019	USDSGD	11:30:00 AM	1.3548	1.3553			N/A
4/19/2019	USDSGD	1:30:00 PM	1.3551	1.3555			N/A
4/19/2019	USDSGD	3:30:00 PM	1.3552	1.3557			N/A
4/19/2019	USDSGD.fx	9:30:00 AM	1.35481	1.35535			N/A
4/19/2019	USDSGD.fx	11:30:00 AM	1.35481	1.35537			N/A

4/19/2019	USDSGD.fx	1:30:00 PM	1.35497	1.35554			N/A
4/19/2019	USDSGD.fx	3:30:00 PM	1.35511	1.35569			N/A
4/19/2019	USDZAR	9:30:00 AM	14.0439	14.0637			N/A
4/19/2019	USDZAR	11:30:00 AM	14.0643	14.0745			N/A
4/19/2019	USDZAR	1:30:00 PM	14.0455	14.0618			N/A
4/19/2019	USDZAR	3:30:00 PM	14.0641	14.0838			N/A
4/19/2019	USDZAR.fx	9:30:00 AM					N/A
4/19/2019	USDZAR.fx	11:30:00 AM					N/A
4/19/2019	USDZAR.fx	1:30:00 PM					N/A
4/19/2019	USDZAR.fx	3:30:00 PM					N/A
4/19/2019	XAUUSD	9:30:00 AM					N/A
4/19/2019	XAUUSD	11:30:00 AM					N/A
4/19/2019	XAUUSD	1:30:00 PM					N/A
4/19/2019	XAUUSD	3:30:00 PM					N/A
4/19/2019	ZARJPY	9:30:00 AM					N/A
4/19/2019	ZARJPY	11:30:00 AM	7.93	7.97			N/A
4/19/2019	ZARJPY	1:30:00 PM	7.94	7.97			N/A
4/19/2019	ZARJPY	3:30:00 PM	7.93	7.96			N/A
4/19/2019	ZARJPY.fx	9:30:00 AM	7.959	7.966			N/A
4/19/2019	ZARJPY.fx	11:30:00 AM	7.952	7.955			N/A
4/19/2019	ZARJPY.fx	1:30:00 PM	7.959	7.964			N/A
4/19/2019	ZARJPY.fx	3:30:00 PM	7.949	7.956			N/A
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4/22/2019	#AA	11:30:00 AM					N/A
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4/22/2019	#AA	3:30:00 PM					N/A
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4/22/2019	#AABA	3:30:00 PM					N/A
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4/22/2019	#AAL	11:30:00 AM					N/A
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4/22/2019	#AAPL	11:30:00 AM					N/A
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4/22/2019	#AMD	3:30:00 PM					N/A
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4/22/2019	#AMZN	3:30:00 PM					N/A
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4/22/2019	#AXP	3:30:00 PM					N/A
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4/22/2019	#BIDU	11:30:00 AM					N/A
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4/22/2019	#BIDU	3:30:00 PM					N/A
4/22/2019	#Bitcoin	9:30:00 AM	5258.06	5329.31			N/A
4/22/2019	#Bitcoin	11:30:00 AM					N/A
4/22/2019	#Bitcoin	1:30:00 PM	5293.11	5360.26			N/A
4/22/2019	#Bitcoin	3:30:00 PM	5302.96	5375.36			N/A
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4/22/2019	#BK	1:30:00 PM					N/A
4/22/2019	#BK	3:30:00 PM					N/A
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4/22/2019	#BTA	3:30:00 PM					N/A

4/22/2019	#C	9:30:00 AM					N/A
4/22/2019	#C	11:30:00 AM					N/A
4/22/2019	#C	1:30:00 PM					N/A
4/22/2019	#C	3:30:00 PM					N/A
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4/22/2019	#CAT	3:30:00 PM					N/A
4/22/2019	#CHL	9:30:00 AM					N/A
4/22/2019	#CHL	11:30:00 AM					N/A
4/22/2019	#CHL	1:30:00 PM					N/A
4/22/2019	#CHL	3:30:00 PM					N/A
4/22/2019	#CL.f	9:30:00 AM	65.49	65.518			N/A
4/22/2019	#CL.f	11:30:00 AM	65.538	65.561			N/A
4/22/2019	#CL.f	1:30:00 PM	65.527	65.569			N/A
4/22/2019	#CL.f	3:30:00 PM	65.675	65.619			N/A
4/22/2019	#CMCSA	9:30:00 AM					N/A
4/22/2019	#CMCSA	11:30:00 AM					N/A
4/22/2019	#CMCSA	1:30:00 PM					N/A
4/22/2019	#CMCSA	3:30:00 PM					N/A
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4/22/2019	#CSCO	3:30:00 PM					N/A
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4/22/2019	#CVX	3:30:00 PM					N/A
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4/22/2019	#DD	3:30:00 PM					N/A
4/22/2019	#DIS	9:30:00 AM					N/A
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4/22/2019	#DIS	3:30:00 PM					N/A
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4/22/2019	#EBAY	11:30:00 AM					N/A
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4/22/2019	#EBAY	3:30:00 PM					N/A
4/22/2019	#Ethereum	9:30:00 AM	166.63	174.51			N/A
4/22/2019	#Ethereum	11:30:00 AM	167.28	175.15			N/A
4/22/2019	#Ethereum	1:30:00 PM	168.2	176.08			N/A
4/22/2019	#Ethereum	3:30:00 PM	168.2	176.17			N/A
4/22/2019	#F	9:30:00 AM					N/A
4/22/2019	#F	11:30:00 AM					N/A
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4/22/2019	#F	3:30:00 PM					N/A
4/22/2019	#FB	9:30:00 AM					N/A
4/22/2019	#FB	11:30:00 AM					N/A
4/22/2019	#FB	1:30:00 PM					N/A
4/22/2019	#FB	3:30:00 PM					N/A
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4/22/2019	AUDJPY.fx	9:30:00 AM	79.915	79.91			N/A
4/22/2019	AUDJPY.fx	11:30:00 AM	79.872	79.878			N/A
4/22/2019	AUDJPY.fx	1:30:00 PM	79.892	79.899			N/A
4/22/2019	AUDJPY.fx	3:30:00 PM	79.823	79.819			N/A
4/22/2019	AUDMXN	9:30:00 AM	13.4106	13.4215			N/A
4/22/2019	AUDMXN	11:30:00 AM	13.4072	13.4181			N/A
4/22/2019	AUDMXN	1:30:00 PM	13.4017	13.4121			N/A
4/22/2019	AUDMXN	3:30:00 PM	13.4036	13.4125			N/A

4/22/2019	AUDNOK	9:30:00 AM	6.0682	6.0732			N/A
4/22/2019	AUDNOK	11:30:00 AM	6.0661	6.0718			N/A
4/22/2019	AUDNOK	1:30:00 PM	6.0653	6.0703			N/A
4/22/2019	AUDNOK	3:30:00 PM	6.0621	6.067			N/A
4/22/2019	AUDNOK.fx	9:30:00 AM	6.0697	6.0716			N/A
4/22/2019	AUDNOK.fx	11:30:00 AM	6.0677	6.0701			N/A
4/22/2019	AUDNOK.fx	1:30:00 PM	6.0668	6.0693			N/A
4/22/2019	AUDNOK.fx	3:30:00 PM	6.0636	6.0653			N/A
4/22/2019	AUDNZD	9:30:00 AM	1.06912	1.06998			N/A
4/22/2019	AUDNZD	11:30:00 AM	1.0681	1.06909			N/A
4/22/2019	AUDNZD	1:30:00 PM	1.06807	1.06901			N/A
4/22/2019	AUDNZD	3:30:00 PM	1.06827	1.06915			N/A
4/22/2019	AUDNZD.fx	9:30:00 AM	1.06955	1.06953			N/A
4/22/2019	AUDNZD.fx	11:30:00 AM	1.06853	1.06862			N/A
4/22/2019	AUDNZD.fx	1:30:00 PM	1.0685	1.06856			N/A
4/22/2019	AUDNZD.fx	3:30:00 PM	1.0687	1.06871			N/A
4/22/2019	AUDPLN	9:30:00 AM	2.7184	2.7215			N/A
4/22/2019	AUDPLN	11:30:00 AM	2.7149	2.7182			N/A
4/22/2019	AUDPLN	1:30:00 PM	2.7138	2.7172			N/A
4/22/2019	AUDPLN	3:30:00 PM	2.7111	2.7141			N/A
4/22/2019	AUDSEK	9:30:00 AM	6.6394	6.6426			N/A
4/22/2019	AUDSEK	11:30:00 AM	6.6421	6.6457			N/A
4/22/2019	AUDSEK	1:30:00 PM	6.6389	6.6428			N/A
4/22/2019	AUDSEK	3:30:00 PM	6.6383	6.6404			N/A
4/22/2019	AUDSEK.fx	9:30:00 AM	6.6348	6.647			N/A
4/22/2019	AUDSEK.fx	11:30:00 AM	6.6376	6.6505			N/A
4/22/2019	AUDSEK.fx	1:30:00 PM	6.6343	6.6474			N/A
4/22/2019	AUDSEK.fx	3:30:00 PM	6.6337	6.6448			N/A
4/22/2019	AUDSGD	9:30:00 AM	0.9687	0.9689			N/A
4/22/2019	AUDSGD	11:30:00 AM	0.9682	0.9684			N/A
4/22/2019	AUDSGD	1:30:00 PM	0.968	0.9682			N/A
4/22/2019	AUDSGD	3:30:00 PM	0.9675	0.9678			N/A
4/22/2019	AUDSGD.fx	9:30:00 AM	0.96877	0.96882			N/A
4/22/2019	AUDSGD.fx	11:30:00 AM	0.96831	0.96847			N/A

4/22/2019	AUDSGD.fx	1:30:00 PM	0.96804	0.96823			N/A
4/22/2019	AUDSGD.fx	3:30:00 PM	0.96761	0.96767			N/A
4/22/2019	AUDUSD	9:30:00 AM	0.71404	0.71412			N/A
4/22/2019	AUDUSD	11:30:00 AM	0.71363	0.7138			N/A
4/22/2019	AUDUSD	1:30:00 PM	0.71373	0.71391			N/A
4/22/2019	AUDUSD	3:30:00 PM	0.71314	0.71323			N/A
4/22/2019	AUDUSD.fx	9:30:00 AM	0.71409	0.71405			N/A
4/22/2019	AUDUSD.fx	11:30:00 AM	0.71368	0.71373			N/A
4/22/2019	AUDUSD.fx	1:30:00 PM	0.71378	0.71385			N/A
4/22/2019	AUDUSD.fx	3:30:00 PM	0.7132	0.71318			N/A
4/22/2019	AUDZAR	9:30:00 AM	10.0552	10.0707			N/A
4/22/2019	AUDZAR	11:30:00 AM	10.0536	10.0695			N/A
4/22/2019	AUDZAR	1:30:00 PM	10.0611	10.0771			N/A
4/22/2019	AUDZAR	3:30:00 PM	10.0554	10.0684			N/A
4/22/2019	AUS200.i	9:30:00 AM					N/A
4/22/2019	AUS200.i	11:30:00 AM					N/A
4/22/2019	AUS200.i	1:30:00 PM					N/A
4/22/2019	AUS200.i	3:30:00 PM					N/A
4/22/2019	BCHUSD	9:30:00 AM	288.35	300.08			N/A
4/22/2019	BCHUSD	11:30:00 AM	292.33	302.68			N/A
4/22/2019	BCHUSD	1:30:00 PM	295.06	306.41			N/A
4/22/2019	BCHUSD	3:30:00 PM	294.96	306.49			N/A
4/22/2019	CADCHF	9:30:00 AM	0.75868	0.75941			N/A
4/22/2019	CADCHF	11:30:00 AM	0.75918	0.75993			N/A
4/22/2019	CADCHF	1:30:00 PM	0.75937	0.76013			N/A
4/22/2019	CADCHF	3:30:00 PM	0.75879	0.75943			N/A
4/22/2019	CADCHF.fx	9:30:00 AM	0.75901	0.75907			N/A
4/22/2019	CADCHF.fx	11:30:00 AM	0.75952	0.75958			N/A
4/22/2019	CADCHF.fx	1:30:00 PM	0.75971	0.75978			N/A
4/22/2019	CADCHF.fx	3:30:00 PM	0.75914	0.75908			N/A
4/22/2019	CADCZK	9:30:00 AM	17.077	17.092			N/A
4/22/2019	CADCZK	11:30:00 AM					N/A
4/22/2019	CADCZK	1:30:00 PM	17.081	17.098			N/A
4/22/2019	CADCZK	3:30:00 PM	17.064	17.077			N/A

4/22/2019	CADDDKK	9:30:00 AM	4.967	4.971			N/A
4/22/2019	CADDDKK	11:30:00 AM					N/A
4/22/2019	CADDDKK	1:30:00 PM					N/A
4/22/2019	CADDDKK	3:30:00 PM	4.962	4.965			N/A
4/22/2019	CADHKD	9:30:00 AM	5.8666	5.8704			N/A
4/22/2019	CADHKD	11:30:00 AM					N/A
4/22/2019	CADHKD	1:30:00 PM	5.8708	5.8748			N/A
4/22/2019	CADHKD	3:30:00 PM	5.8655	5.8692			N/A
4/22/2019	CADHUF	9:30:00 AM	213.02	213.17			N/A
4/22/2019	CADHUF	11:30:00 AM					N/A
4/22/2019	CADHUF	1:30:00 PM					N/A
4/22/2019	CADHUF	3:30:00 PM	212.58	212.54			N/A
4/22/2019	CADJPY	9:30:00 AM	83.689	83.759			N/A
4/22/2019	CADJPY	11:30:00 AM	83.715	83.79			N/A
4/22/2019	CADJPY	1:30:00 PM	83.764	83.842			N/A
4/22/2019	CADJPY	3:30:00 PM	83.692	83.752			N/A
4/22/2019	CADJPY.fx	9:30:00 AM	83.724	83.723			N/A
4/22/2019	CADJPY.fx	11:30:00 AM	83.748	83.756			N/A
4/22/2019	CADJPY.fx	1:30:00 PM	83.796	83.807			N/A
4/22/2019	CADJPY.fx	3:30:00 PM	83.725	83.718			N/A
4/22/2019	CADMXN	9:30:00 AM	14.051	14.0638			N/A
4/22/2019	CADMXN	11:30:00 AM	14.0601	14.073			N/A
4/22/2019	CADMXN	1:30:00 PM	14.0586	14.0713			N/A
4/22/2019	CADMXN	3:30:00 PM	14.0604	14.0687			N/A
4/22/2019	CADNOK	9:30:00 AM	6.3564	6.3614			N/A
4/22/2019	CADNOK	11:30:00 AM	6.3601	6.365			N/A
4/22/2019	CADNOK	1:30:00 PM	6.3612	6.3662			N/A
4/22/2019	CADNOK	3:30:00 PM	6.3572	6.3592			N/A
4/22/2019	CADPLN	9:30:00 AM	2.8484	2.8503			N/A
4/22/2019	CADPLN	11:30:00 AM	2.8473	2.8492			N/A
4/22/2019	CADPLN	1:30:00 PM	2.8471	2.8491			N/A
4/22/2019	CADPLN	3:30:00 PM	2.8437	2.8456			N/A
4/22/2019	CADSEK	9:30:00 AM	6.9543	6.9582			N/A
4/22/2019	CADSEK	11:30:00 AM	6.9638	6.9677			N/A

4/22/2019	CADSEK	1:30:00 PM	6.9625	6.9664			N/A
4/22/2019	CADSEK	3:30:00 PM	6.9606	6.9635			N/A
4/22/2019	CADSGD	9:30:00 AM	1.0144	1.0147			N/A
4/22/2019	CADSGD	11:30:00 AM	1.0148	1.0151			N/A
4/22/2019	CADSGD	1:30:00 PM	1.0146	1.015			N/A
4/22/2019	CADSGD	3:30:00 PM	1.0143	1.0146			N/A
4/22/2019	CADZAR	9:30:00 AM	10.5356	10.5525			N/A
4/22/2019	CADZAR	11:30:00 AM	10.5431	10.5609			N/A
4/22/2019	CADZAR	1:30:00 PM	10.5544	10.5723			N/A
4/22/2019	CADZAR	3:30:00 PM	10.5478	10.5624			N/A
4/22/2019	CHFCZK	9:30:00 AM					N/A
4/22/2019	CHFCZK	11:30:00 AM	22.493	22.511			N/A
4/22/2019	CHFCZK	1:30:00 PM					N/A
4/22/2019	CHFCZK	3:30:00 PM	22.481	22.498			N/A
4/22/2019	CHFDKK	9:30:00 AM	6.545	6.548			N/A
4/22/2019	CHFDKK	11:30:00 AM	6.541	6.544			N/A
4/22/2019	CHFDKK	1:30:00 PM					N/A
4/22/2019	CHFDKK	3:30:00 PM	6.537	6.54			N/A
4/22/2019	CHFDKK.fx	9:30:00 AM	6.5431	6.549			N/A
4/22/2019	CHFDKK.fx	11:30:00 AM	6.539	6.5452			N/A
4/22/2019	CHFDKK.fx	1:30:00 PM	6.5366	6.5432			N/A
4/22/2019	CHFDKK.fx	3:30:00 PM	6.535	6.5413			N/A
4/22/2019	CHFHKD	9:30:00 AM	7.7298	7.7338			N/A
4/22/2019	CHFHKD	11:30:00 AM	7.7273	7.7312			N/A
4/22/2019	CHFHKD	1:30:00 PM	7.7283	7.7323			N/A
4/22/2019	CHFHKD	3:30:00 PM	7.7279	7.7319			N/A
4/22/2019	CHFHUF	9:30:00 AM	280.57	280.94			N/A
4/22/2019	CHFHUF	11:30:00 AM	280.36	280.76			N/A
4/22/2019	CHFHUF	1:30:00 PM					N/A
4/22/2019	CHFHUF	3:30:00 PM	279.94	280.13			N/A
4/22/2019	CHFJPY	9:30:00 AM	110.268	110.338			N/A
4/22/2019	CHFJPY	11:30:00 AM	110.232	110.303			N/A
4/22/2019	CHFJPY	1:30:00 PM	110.266	110.341			N/A
4/22/2019	CHFJPY	3:30:00 PM	110.255	110.322			N/A

4/22/2019	CHFJPY.fx	9:30:00 AM	110.301	110.303			N/A
4/22/2019	CHFJPY.fx	11:30:00 AM	110.265	110.268			N/A
4/22/2019	CHFJPY.fx	1:30:00 PM	110.3	110.306			N/A
4/22/2019	CHFJPY.fx	3:30:00 PM	110.287	110.288			N/A
4/22/2019	CHFMXN	9:30:00 AM	18.5125	18.5294			N/A
4/22/2019	CHFMXN	11:30:00 AM	18.5121	18.5293			N/A
4/22/2019	CHFMXN	1:30:00 PM	18.5048	18.522			N/A
4/22/2019	CHFMXN	3:30:00 PM	18.5226	18.5368			N/A
4/22/2019	CHFNOK	9:30:00 AM	8.3751	8.3828			N/A
4/22/2019	CHFNOK	11:30:00 AM	8.3741	8.3824			N/A
4/22/2019	CHFNOK	1:30:00 PM	8.3731	8.3817			N/A
4/22/2019	CHFNOK	3:30:00 PM	8.3748	8.383			N/A
4/22/2019	CHFNOK.fx	9:30:00 AM	8.37861	8.37945			N/A
4/22/2019	CHFNOK.fx	11:30:00 AM	8.3776	8.37889			N/A
4/22/2019	CHFNOK.fx	1:30:00 PM	8.37655	8.37822			N/A
4/22/2019	CHFNOK.fx	3:30:00 PM	8.37837	8.37965			N/A
4/22/2019	CHFPLN	9:30:00 AM	3.7526	3.7552			N/A
4/22/2019	CHFPLN	11:30:00 AM	3.7486	3.752			N/A
4/22/2019	CHFPLN	1:30:00 PM	3.7474	3.7507			N/A
4/22/2019	CHFPLN	3:30:00 PM	3.7463	3.7496			N/A
4/22/2019	CHFPLN.fx	9:30:00 AM	3.75006	3.75755			N/A
4/22/2019	CHFPLN.fx	11:30:00 AM	3.74604	3.75448			N/A
4/22/2019	CHFPLN.fx	1:30:00 PM	3.74484	3.75313			N/A
4/22/2019	CHFPLN.fx	3:30:00 PM	3.74376	3.75205			N/A
4/22/2019	CHFSEK	9:30:00 AM	9.1623	9.1672			N/A
4/22/2019	CHFSEK	11:30:00 AM	9.1685	9.1735			N/A
4/22/2019	CHFSEK	1:30:00 PM	9.1649	9.1695			N/A
4/22/2019	CHFSEK	3:30:00 PM	9.1694	9.1735			N/A
4/22/2019	CHFSGD	9:30:00 AM	1.3369	1.3372			N/A
4/22/2019	CHFSGD	11:30:00 AM	1.3366	1.3371			N/A
4/22/2019	CHFSGD	1:30:00 PM	1.3364	1.3368			N/A
4/22/2019	CHFSGD	3:30:00 PM	1.3367	1.3372			N/A
4/22/2019	CHFSGD.fx	9:30:00 AM	1.33713	1.33727			N/A
4/22/2019	CHFSGD.fx	11:30:00 AM	1.33683	1.3369			N/A

4/22/2019	CHFSGD.fx	1:30:00 PM	1.33653	1.3367			N/A
4/22/2019	CHFSGD.fx	3:30:00 PM	1.33685	1.33701			N/A
4/22/2019	CHFZAR	9:30:00 AM	13.8849	13.8996			N/A
4/22/2019	CHFZAR	11:30:00 AM	13.8852	13.9007			N/A
4/22/2019	CHFZAR	1:30:00 PM	13.8965	13.9124			N/A
4/22/2019	CHFZAR	3:30:00 PM	13.8988	13.9119			N/A
4/22/2019	CZKJPY	9:30:00 AM					N/A
4/22/2019	CZKJPY	11:30:00 AM					N/A
4/22/2019	CZKJPY	1:30:00 PM					N/A
4/22/2019	CZKJPY	3:30:00 PM	4.903	4.907			N/A
4/22/2019	DAX30.i	9:30:00 AM					N/A
4/22/2019	DAX30.i	11:30:00 AM					N/A
4/22/2019	DAX30.i	1:30:00 PM					N/A
4/22/2019	DAX30.i	3:30:00 PM					N/A
4/22/2019	DJ30.i	9:30:00 AM					N/A
4/22/2019	DJ30.i	11:30:00 AM					N/A
4/22/2019	DJ30.i	1:30:00 PM					N/A
4/22/2019	DJ30.i	3:30:00 PM					N/A
4/22/2019	DKKJPY	9:30:00 AM					N/A
4/22/2019	DKKJPY	11:30:00 AM					N/A
4/22/2019	DKKJPY	1:30:00 PM					N/A
4/22/2019	DKKJPY	3:30:00 PM	16.87	16.89			N/A
4/22/2019	EURAUD	9:30:00 AM	1.57347	1.57388			N/A
4/22/2019	EURAUD	11:30:00 AM	1.57465	1.57517			N/A
4/22/2019	EURAUD	1:30:00 PM	1.57524	1.57578			N/A
4/22/2019	EURAUD	3:30:00 PM	1.57703	1.57738			N/A
4/22/2019	EURAUD.fx	9:30:00 AM	1.57368	1.57366			N/A
4/22/2019	EURAUD.fx	11:30:00 AM	1.57485	1.57495			N/A
4/22/2019	EURAUD.fx	1:30:00 PM	1.57545	1.57556			N/A
4/22/2019	EURAUD.fx	3:30:00 PM	1.57724	1.57716			N/A
4/22/2019	EURCAD	9:30:00 AM	1.50235	1.50305			N/A
4/22/2019	EURCAD	11:30:00 AM	1.50207	1.50302			N/A
4/22/2019	EURCAD	1:30:00 PM	1.50215	1.50309			N/A
4/22/2019	EURCAD	3:30:00 PM	1.504	1.50464			N/A

4/22/2019	EURCAD.fx	9:30:00 AM	1.50277	1.50263			N/A
4/22/2019	EURCAD.fx	11:30:00 AM	1.50248	1.50261			N/A
4/22/2019	EURCAD.fx	1:30:00 PM	1.50256	1.50268			N/A
4/22/2019	EURCAD.fx	3:30:00 PM	1.50441	1.50422			N/A
4/22/2019	EURCHF	9:30:00 AM	1.14056	1.14062			N/A
4/22/2019	EURCHF	11:30:00 AM	1.1412	1.14131			N/A
4/22/2019	EURCHF	1:30:00 PM	1.14154	1.14171			N/A
4/22/2019	EURCHF	3:30:00 PM	1.14188	1.142			N/A
4/22/2019	EURCHF.fx	9:30:00 AM	1.14061	1.14055			N/A
4/22/2019	EURCHF.fx	11:30:00 AM	1.14126	1.14126			N/A
4/22/2019	EURCHF.fx	1:30:00 PM	1.14158	1.14165			N/A
4/22/2019	EURCHF.fx	3:30:00 PM	1.14193	1.14195			N/A
4/22/2019	EURCZK	9:30:00 AM					N/A
4/22/2019	EURCZK	11:30:00 AM					N/A
4/22/2019	EURCZK	1:30:00 PM					N/A
4/22/2019	EURCZK	3:30:00 PM	25.659	25.698			N/A
4/22/2019	EURDKK	9:30:00 AM	7.4648	7.4657			N/A
4/22/2019	EURDKK	11:30:00 AM	7.4645	7.4658			N/A
4/22/2019	EURDKK	1:30:00 PM	7.4652	7.4664			N/A
4/22/2019	EURDKK	3:30:00 PM	7.4626	7.4635			N/A
4/22/2019	EURGBP	9:30:00 AM	0.86502	0.8651			N/A
4/22/2019	EURGBP	11:30:00 AM	0.86524	0.8654			N/A
4/22/2019	EURGBP	1:30:00 PM	0.86605	0.86622			N/A
4/22/2019	EURGBP	3:30:00 PM	0.8666	0.86666			N/A
4/22/2019	EURGBP.fx	9:30:00 AM	0.86504	0.86506			N/A
4/22/2019	EURGBP.fx	11:30:00 AM	0.86527	0.86536			N/A
4/22/2019	EURGBP.fx	1:30:00 PM	0.86608	0.86616			N/A
4/22/2019	EURGBP.fx	3:30:00 PM	0.86664	0.86661			N/A
4/22/2019	EURHKD	9:30:00 AM	8.8169	8.8217			N/A
4/22/2019	EURHKD	11:30:00 AM	8.8186	8.8244			N/A
4/22/2019	EURHKD	1:30:00 PM	8.8226	8.8284			N/A
4/22/2019	EURHKD	3:30:00 PM	8.8249	8.8299			N/A
4/22/2019	EURHKD.fx	9:30:00 AM	8.81969	8.81879			N/A
4/22/2019	EURHKD.fx	11:30:00 AM	8.82141	8.82156			N/A

4/22/2019	EURHKD.fx	1:30:00 PM	8.82539	8.82565			N/A
4/22/2019	EURHKD.fx	3:30:00 PM	8.82762	8.82709			N/A
4/22/2019	EURHUF	9:30:00 AM	319.96	320.69			N/A
4/22/2019	EURHUF	11:30:00 AM	319.94	320.53			N/A
4/22/2019	EURHUF	1:30:00 PM	319.69	320.4			N/A
4/22/2019	EURHUF	3:30:00 PM	319.7	320.21			N/A
4/22/2019	EURHUF.fx	9:30:00 AM	320.213	320.434			N/A
4/22/2019	EURHUF.fx	11:30:00 AM	320.221	320.416			N/A
4/22/2019	EURHUF.fx	1:30:00 PM	319.951	320.166			N/A
4/22/2019	EURHUF.fx	3:30:00 PM	319.948	320.035			N/A
4/22/2019	EURJPY	9:30:00 AM	125.805	125.809			N/A
4/22/2019	EURJPY	11:30:00 AM	125.835	125.849			N/A
4/22/2019	EURJPY	1:30:00 PM	125.915	125.931			N/A
4/22/2019	EURJPY	3:30:00 PM	125.942	125.948			N/A
4/22/2019	EURJPY.fx	9:30:00 AM	125.808	125.806			N/A
4/22/2019	EURJPY.fx	11:30:00 AM	125.837	125.845			N/A
4/22/2019	EURJPY.fx	1:30:00 PM	125.917	125.928			N/A
4/22/2019	EURJPY.fx	3:30:00 PM	125.944	125.943			N/A
4/22/2019	EURMXN	9:30:00 AM	21.1176	21.1376			N/A
4/22/2019	EURMXN	11:30:00 AM	21.1281	21.1475			N/A
4/22/2019	EURMXN	1:30:00 PM	21.1269	21.1485			N/A
4/22/2019	EURMXN	3:30:00 PM	21.154	21.1707			N/A
4/22/2019	EURMXN.f	9:30:00 AM	21.1252	21.13			N/A
4/22/2019	EURMXN.f	11:30:00 AM	21.1358	21.1417			N/A
4/22/2019	EURMXN.f	1:30:00 PM	21.1347	21.1409			N/A
4/22/2019	EURMXN.f	3:30:00 PM	21.163	21.162			N/A
4/22/2019	EURNOK	9:30:00 AM	9.5507	9.5631			N/A
4/22/2019	EURNOK	11:30:00 AM	9.5554	9.568			N/A
4/22/2019	EURNOK	1:30:00 PM	9.555	9.5675			N/A
4/22/2019	EURNOK	3:30:00 PM	9.5619	9.5748			N/A
4/22/2019	EURNOK.fx	9:30:00 AM	9.55611	9.55774			N/A
4/22/2019	EURNOK.fx	11:30:00 AM	9.56069	9.56276			N/A
4/22/2019	EURNOK.fx	1:30:00 PM	9.5625	9.56508			N/A
4/22/2019	EURNOK.fx	3:30:00 PM	9.56715	9.56957			N/A

4/22/2019	EURNZD	9:30:00 AM	1.68339	1.68422			N/A
4/22/2019	EURNZD	11:30:00 AM	1.68308	1.68404			N/A
4/22/2019	EURNZD	1:30:00 PM	1.68367	1.68453			N/A
4/22/2019	EURNZD	3:30:00 PM	1.68576	1.68661			N/A
4/22/2019	EURNZD.fx	9:30:00 AM	1.68379	1.68382			N/A
4/22/2019	EURNZD.fx	11:30:00 AM	1.68351	1.68361			N/A
4/22/2019	EURNZD.fx	1:30:00 PM	1.68407	1.68412			N/A
4/22/2019	EURNZD.fx	3:30:00 PM	1.68617	1.6862			N/A
4/22/2019	EURPLN	9:30:00 AM	4.2802	4.283			N/A
4/22/2019	EURPLN	11:30:00 AM	4.2783	4.2805			N/A
4/22/2019	EURPLN	1:30:00 PM	4.2783	4.2806			N/A
4/22/2019	EURPLN	3:30:00 PM	4.2783	4.2816			N/A
4/22/2019	EURPLN.fx	9:30:00 AM	4.2793	4.28377			N/A
4/22/2019	EURPLN.fx	11:30:00 AM	4.27751	4.28266			N/A
4/22/2019	EURPLN.fx	1:30:00 PM					N/A
4/22/2019	EURPLN.fx	3:30:00 PM	4.27729	4.28244			N/A
4/22/2019	EURRUB	9:30:00 AM					N/A
4/22/2019	EURRUB	11:30:00 AM	71.353	71.793			N/A
4/22/2019	EURRUB	1:30:00 PM	71.421	71.863			N/A
4/22/2019	EURRUB	3:30:00 PM	71.423	71.809			N/A
4/22/2019	EURSEK	9:30:00 AM	10.4523	10.4575			N/A
4/22/2019	EURSEK	11:30:00 AM	10.4651	10.4704			N/A
4/22/2019	EURSEK	1:30:00 PM	10.4639	10.4685			N/A
4/22/2019	EURSEK	3:30:00 PM	10.4734	10.477			N/A
4/22/2019	EURSEK.fx	9:30:00 AM	10.45354	10.45614			N/A
4/22/2019	EURSEK.fx	11:30:00 AM	10.46664	10.46891			N/A
4/22/2019	EURSEK.fx	1:30:00 PM	10.46541	10.46783			N/A
4/22/2019	EURSEK.fx	3:30:00 PM	10.47494	10.47567			N/A
4/22/2019	EURSGD	9:30:00 AM	1.5248	1.5252			N/A
4/22/2019	EURSGD	11:30:00 AM	1.5252	1.5259			N/A
4/22/2019	EURSGD	1:30:00 PM	1.5254	1.5259			N/A
4/22/2019	EURSGD	3:30:00 PM	1.5263	1.5272			N/A
4/22/2019	EURSGD.fx	9:30:00 AM	1.52517	1.52518			N/A
4/22/2019	EURSGD.fx	11:30:00 AM	1.52562	1.52577			N/A

4/22/2019	EURSGD.fx	1:30:00 PM	1.52582	1.52597			N/A
4/22/2019	EURSGD.fx	3:30:00 PM	1.52668	1.52677			N/A
4/22/2019	EURUSD	9:30:00 AM	1.12401	1.12404			N/A
4/22/2019	EURUSD	11:30:00 AM	1.12422	1.12439			N/A
4/22/2019	EURUSD	1:30:00 PM	1.12481	1.12499			N/A
4/22/2019	EURUSD	3:30:00 PM	1.12509	1.12516			N/A
4/22/2019	EURUSD.fx	9:30:00 AM	1.12421	1.12413			N/A
4/22/2019	EURUSD.fx	11:30:00 AM	1.12442	1.12448			N/A
4/22/2019	EURUSD.fx	1:30:00 PM	1.12501	1.12508			N/A
4/22/2019	EURUSD.fx	3:30:00 PM	1.12529	1.12525			N/A
4/22/2019	EURZAR	9:30:00 AM	15.8408	15.8605			N/A
4/22/2019	EURZAR	11:30:00 AM	15.8499	15.868			N/A
4/22/2019	EURZAR	1:30:00 PM	15.8676	15.8893			N/A
4/22/2019	EURZAR	3:30:00 PM	15.8765	15.8964			N/A
4/22/2019	EURZAR.fx	9:30:00 AM	15.84006	15.8614			N/A
4/22/2019	EURZAR.fx	11:30:00 AM	15.84924	15.86894			N/A
4/22/2019	EURZAR.fx	1:30:00 PM	15.86663	15.89019			N/A
4/22/2019	EURZAR.fx	3:30:00 PM	15.87533	15.8978			N/A
4/22/2019	GBPAUD	9:30:00 AM	1.81954	1.82021			N/A
4/22/2019	GBPAUD	11:30:00 AM	1.82027	1.82117			N/A
4/22/2019	GBPAUD	1:30:00 PM	1.81929	1.82018			N/A
4/22/2019	GBPAUD	3:30:00 PM	1.82036	1.8209			N/A
4/22/2019	GBPAUD.fx	9:30:00 AM	1.81993	1.81982			N/A
4/22/2019	GBPAUD.fx	11:30:00 AM	1.82067	1.82077			N/A
4/22/2019	GBPAUD.fx	1:30:00 PM	1.81971	1.81976			N/A
4/22/2019	GBPAUD.fx	3:30:00 PM	1.82075	1.8205			N/A
4/22/2019	GBPCAD	9:30:00 AM	1.73672	1.73747			N/A
4/22/2019	GBPCAD	11:30:00 AM	1.73598	1.73685			N/A
4/22/2019	GBPCAD	1:30:00 PM	1.73444	1.73537			N/A
4/22/2019	GBPCAD	3:30:00 PM	1.73554	1.73611			N/A
4/22/2019	GBPCAD.fx	9:30:00 AM	1.7371	1.73711			N/A
4/22/2019	GBPCAD.fx	11:30:00 AM	1.73635	1.73648			N/A
4/22/2019	GBPCAD.fx	1:30:00 PM	1.73482	1.73497			N/A
4/22/2019	GBPCAD.fx	3:30:00 PM	1.7359	1.73571			N/A

4/22/2019	GBPCHE	9:30:00 AM	1.31827	1.3188			N/A
4/22/2019	GBPCHE	11:30:00 AM	1.31863	1.3191			N/A
4/22/2019	GBPCHE	1:30:00 PM	1.31782	1.31833			N/A
4/22/2019	GBPCHE	3:30:00 PM	1.3175	1.31791			N/A
4/22/2019	GBPCHE.fx	9:30:00 AM	1.31846	1.31861			N/A
4/22/2019	GBPCHE.fx	11:30:00 AM	1.31881	1.3189			N/A
4/22/2019	GBPCHE.fx	1:30:00 PM	1.31803	1.3181			N/A
4/22/2019	GBPCHE.fx	3:30:00 PM	1.31768	1.31772			N/A
4/22/2019	GBPCZK	9:30:00 AM	29.664	29.687			N/A
4/22/2019	GBPCZK	11:30:00 AM	29.661	29.685			N/A
4/22/2019	GBPCZK	1:30:00 PM	29.634	29.658			N/A
4/22/2019	GBPCZK	3:30:00 PM	29.618	29.639			N/A
4/22/2019	GBPDKK	9:30:00 AM	8.626	8.637			N/A
4/22/2019	GBPDKK	11:30:00 AM	8.622	8.635			N/A
4/22/2019	GBPDKK	1:30:00 PM	8.615	8.627			N/A
4/22/2019	GBPDKK	3:30:00 PM	8.611	8.621			N/A
4/22/2019	GBPDKK.fx	9:30:00 AM	8.6244	8.6378			N/A
4/22/2019	GBPDKK.fx	11:30:00 AM	8.6214	8.6354			N/A
4/22/2019	GBPDKK.fx	1:30:00 PM	8.6133	8.6271			N/A
4/22/2019	GBPDKK.fx	3:30:00 PM	8.609	8.6217			N/A
4/22/2019	GBPHKD	9:30:00 AM	10.1901	10.196			N/A
4/22/2019	GBPHKD	11:30:00 AM	10.1892	10.1951			N/A
4/22/2019	GBPHKD	1:30:00 PM	10.1845	10.1903			N/A
4/22/2019	GBPHKD	3:30:00 PM	10.1803	10.1861			N/A
4/22/2019	GBPHUF	9:30:00 AM	369.89	370.36			N/A
4/22/2019	GBPHUF	11:30:00 AM	369.71	370.2			N/A
4/22/2019	GBPHUF	1:30:00 PM	369.08	369.58			N/A
4/22/2019	GBPHUF	3:30:00 PM	368.85	369.02			N/A
4/22/2019	GBPJPY	9:30:00 AM	145.417	145.461			N/A
4/22/2019	GBPJPY	11:30:00 AM	145.402	145.454			N/A
4/22/2019	GBPJPY	1:30:00 PM	145.361	145.416			N/A
4/22/2019	GBPJPY	3:30:00 PM	145.306	145.347			N/A
4/22/2019	GBPJPY.fx	9:30:00 AM	145.434	145.443			N/A
4/22/2019	GBPJPY.fx	11:30:00 AM	145.421	145.436			N/A

4/22/2019	GBPJPY.fx	1:30:00 PM	145.38	145.397			N/A
4/22/2019	GBPJPY.fx	3:30:00 PM	145.324	145.328			N/A
4/22/2019	GBPMXN	9:30:00 AM	24.4079	24.4245			N/A
4/22/2019	GBPMXN	11:30:00 AM	24.4132	24.4311			N/A
4/22/2019	GBPMXN	1:30:00 PM	24.3893	24.4065			N/A
4/22/2019	GBPMXN	3:30:00 PM	24.4062	24.417			N/A
4/22/2019	GBPNOK	9:30:00 AM	11.0422	11.0535			N/A
4/22/2019	GBPNOK	11:30:00 AM	11.0437	11.0558			N/A
4/22/2019	GBPNOK	1:30:00 PM	11.0357	11.0481			N/A
4/22/2019	GBPNOK	3:30:00 PM	11.0353	11.0465			N/A
4/22/2019	GBPNOK.fx	9:30:00 AM	11.04707	11.04866			N/A
4/22/2019	GBPNOK.fx	11:30:00 AM	11.04851	11.05104			N/A
4/22/2019	GBPNOK.fx	1:30:00 PM	11.04053	11.04315			N/A
4/22/2019	GBPNOK.fx	3:30:00 PM	11.04017	11.04165			N/A
4/22/2019	GBPNZD	9:30:00 AM	1.94612	1.94688			N/A
4/22/2019	GBPNZD	11:30:00 AM	1.94516	1.94603			N/A
4/22/2019	GBPNZD	1:30:00 PM	1.94401	1.94481			N/A
4/22/2019	GBPNZD	3:30:00 PM	1.94537	1.94606			N/A
4/22/2019	GBPNZD.fx	9:30:00 AM	1.94647	1.94654			N/A
4/22/2019	GBPNZD.fx	11:30:00 AM	1.94551	1.94566			N/A
4/22/2019	GBPNZD.fx	1:30:00 PM	1.94435	1.94445			N/A
4/22/2019	GBPNZD.fx	3:30:00 PM	1.94572	1.94569			N/A
4/22/2019	GBPPLN	9:30:00 AM	4.9489	4.9501			N/A
4/22/2019	GBPPLN	11:30:00 AM	4.9452	4.9473			N/A
4/22/2019	GBPPLN	1:30:00 PM	4.9403	4.9426			N/A
4/22/2019	GBPPLN	3:30:00 PM	4.9378	4.9395			N/A
4/22/2019	GBPPLN.fx	9:30:00 AM	4.94646	4.95245			N/A
4/22/2019	GBPPLN.fx	11:30:00 AM	4.9428	4.9497			N/A
4/22/2019	GBPPLN.fx	1:30:00 PM	4.93786	4.94498			N/A
4/22/2019	GBPPLN.fx	3:30:00 PM	4.93522	4.94186			N/A
4/22/2019	GBPSEK	9:30:00 AM	12.0811	12.0908			N/A
4/22/2019	GBPSEK	11:30:00 AM	12.0922	12.1024			N/A
4/22/2019	GBPSEK	1:30:00 PM	12.0792	12.0896			N/A
4/22/2019	GBPSEK	3:30:00 PM	12.0832	12.0909			N/A

4/22/2019	GBPSEK.fx	9:30:00 AM	12.07705	12.09488			N/A
4/22/2019	GBPSEK.fx	11:30:00 AM	12.08792	12.10661			N/A
4/22/2019	GBPSEK.fx	1:30:00 PM	12.07527	12.09338			N/A
4/22/2019	GBPSEK.fx	3:30:00 PM	12.07902	12.09496			N/A
4/22/2019	GBPSGD	9:30:00 AM	1.7627	1.7636			N/A
4/22/2019	GBPSGD	11:30:00 AM	1.7628	1.7636			N/A
4/22/2019	GBPSGD	1:30:00 PM	1.7613	1.7622			N/A
4/22/2019	GBPSGD	3:30:00 PM	1.7614	1.7621			N/A
4/22/2019	GBPSGD.fx	9:30:00 AM	1.76087	1.76536			N/A
4/22/2019	GBPSGD.fx	11:30:00 AM	1.7609	1.76542			N/A
4/22/2019	GBPSGD.fx	1:30:00 PM	1.75945	1.76404			N/A
4/22/2019	GBPSGD.fx	3:30:00 PM	1.7595	1.76387			N/A
4/22/2019	GBPUSD	9:30:00 AM	1.29947	1.29961			N/A
4/22/2019	GBPUSD	11:30:00 AM	1.29941	1.29951			N/A
4/22/2019	GBPUSD	1:30:00 PM	1.29887	1.29902			N/A
4/22/2019	GBPUSD	3:30:00 PM	1.29842	1.29845			N/A
4/22/2019	GBPUSD.fx	9:30:00 AM	1.29953	1.29957			N/A
4/22/2019	GBPUSD.fx	11:30:00 AM	1.29944	1.29947			N/A
4/22/2019	GBPUSD.fx	1:30:00 PM	1.29892	1.29899			N/A
4/22/2019	GBPUSD.fx	3:30:00 PM	1.29847	1.29839			N/A
4/22/2019	GBPZAR	9:30:00 AM	18.3098	18.3371			N/A
4/22/2019	GBPZAR	11:30:00 AM	18.3142	18.3418			N/A
4/22/2019	GBPZAR	1:30:00 PM	18.3164	18.3479			N/A
4/22/2019	GBPZAR	3:30:00 PM	18.3169	18.3459			N/A
4/22/2019	GBPZAR.fx	9:30:00 AM	18.3164	18.3295			N/A
4/22/2019	GBPZAR.fx	11:30:00 AM	18.3212	18.3343			N/A
4/22/2019	GBPZAR.fx	1:30:00 PM	18.3227	18.3417			N/A
4/22/2019	GBPZAR.fx	3:30:00 PM	18.3222	18.3409			N/A
4/22/2019	GOLD	9:30:00 AM	1278.28	1278.67			N/A
4/22/2019	GOLD	11:30:00 AM	1278.22	1278.58			N/A
4/22/2019	GOLD	1:30:00 PM	1279.15	1279.57			N/A
4/22/2019	GOLD	3:30:00 PM	1277.56	1277.48			N/A
4/22/2019	HKDJPY	9:30:00 AM	14.27	14.28			N/A
4/22/2019	HKDJPY	11:30:00 AM	14.27	14.28			N/A

4/22/2019	HKDJPY	1:30:00 PM					N/A
4/22/2019	HKDJPY	3:30:00 PM	14.27	14.28			N/A
4/22/2019	HKDJPY.fx	9:30:00 AM	14.26	14.268			N/A
4/22/2019	HKDJPY.fx	11:30:00 AM	14.261	14.268			N/A
4/22/2019	HKDJPY.fx	1:30:00 PM	14.263	14.271			N/A
4/22/2019	HKDJPY.fx	3:30:00 PM	14.263	14.27			N/A
4/22/2019	HUFJPY	9:30:00 AM	0.3931	0.3934			N/A
4/22/2019	HUFJPY	11:30:00 AM	0.3931	0.3934			N/A
4/22/2019	HUFJPY	1:30:00 PM	0.3937	0.3941			N/A
4/22/2019	HUFJPY	3:30:00 PM	0.394	0.3943			N/A
4/22/2019	JP225.i	9:30:00 AM	22209.74	22227.24			N/A
4/22/2019	JP225.i	11:30:00 AM	22202.24	22219.74			N/A
4/22/2019	JP225.i	1:30:00 PM					N/A
4/22/2019	JP225.i	3:30:00 PM	22198.08	22212.24			N/A
4/22/2019	MXNJPY	9:30:00 AM	5.96	5.96			N/A
4/22/2019	MXNJPY	11:30:00 AM					N/A
4/22/2019	MXNJPY	1:30:00 PM					N/A
4/22/2019	MXNJPY	3:30:00 PM					N/A
4/22/2019	NASDAQ.i	9:30:00 AM					N/A
4/22/2019	NASDAQ.i	11:30:00 AM					N/A
4/22/2019	NASDAQ.i	1:30:00 PM					N/A
4/22/2019	NASDAQ.i	3:30:00 PM					N/A
4/22/2019	NOKJPY	9:30:00 AM	13.15	13.18			N/A
4/22/2019	NOKJPY	11:30:00 AM					N/A
4/22/2019	NOKJPY	1:30:00 PM					N/A
4/22/2019	NOKJPY	3:30:00 PM	13.15	13.18			N/A
4/22/2019	NOKJPY.fx	9:30:00 AM	13.16	13.167			N/A
4/22/2019	NOKJPY.fx	11:30:00 AM	13.157	13.165			N/A
4/22/2019	NOKJPY.fx	1:30:00 PM	13.162	13.171			N/A
4/22/2019	NOKJPY.fx	3:30:00 PM	13.159	13.167			N/A
4/22/2019	NZDCAD	9:30:00 AM	0.89207	0.89274			N/A
4/22/2019	NZDCAD	11:30:00 AM	0.89209	0.89287			N/A
4/22/2019	NZDCAD	1:30:00 PM	0.89189	0.89262			N/A
4/22/2019	NZDCAD	3:30:00 PM	0.89182	0.89243			N/A

4/22/2019	NZDCAD.fx	9:30:00 AM	0.89242	0.8924			N/A
4/22/2019	NZDCAD.fx	11:30:00 AM	0.89241	0.89255			N/A
4/22/2019	NZDCAD.fx	1:30:00 PM	0.89221	0.89229			N/A
4/22/2019	NZDCAD.fx	3:30:00 PM	0.89214	0.8921			N/A
4/22/2019	NZDCHF	9:30:00 AM	0.67702	0.67773			N/A
4/22/2019	NZDCHF	11:30:00 AM	0.67752	0.67829			N/A
4/22/2019	NZDCHF	1:30:00 PM	0.67751	0.67826			N/A
4/22/2019	NZDCHF	3:30:00 PM	0.67687	0.67759			N/A
4/22/2019	NZDCHF.fx	9:30:00 AM	0.67735	0.67737			N/A
4/22/2019	NZDCHF.fx	11:30:00 AM	0.67785	0.67794			N/A
4/22/2019	NZDCHF.fx	1:30:00 PM	0.67784	0.67791			N/A
4/22/2019	NZDCHF.fx	3:30:00 PM	0.6772	0.67724			N/A
4/22/2019	NZDCZK	9:30:00 AM					N/A
4/22/2019	NZDCZK	11:30:00 AM					N/A
4/22/2019	NZDCZK	1:30:00 PM	15.24	15.252			N/A
4/22/2019	NZDCZK	3:30:00 PM	15.222	15.232			N/A
4/22/2019	NZDDKK	9:30:00 AM					N/A
4/22/2019	NZDDKK	11:30:00 AM	4.433	4.436			N/A
4/22/2019	NZDDKK	1:30:00 PM					N/A
4/22/2019	NZDDKK	3:30:00 PM	4.425	4.429			N/A
4/22/2019	NZDHKD	9:30:00 AM	5.2343	5.2372			N/A
4/22/2019	NZDHKD	11:30:00 AM	5.2364	5.2393			N/A
4/22/2019	NZDHKD	1:30:00 PM	5.2374	5.2402			N/A
4/22/2019	NZDHKD	3:30:00 PM	5.232	5.2346			N/A
4/22/2019	NZDHUF	9:30:00 AM	189.99	190.29			N/A
4/22/2019	NZDHUF	11:30:00 AM	189.99	190.29			N/A
4/22/2019	NZDHUF	1:30:00 PM	189.79	190.09			N/A
4/22/2019	NZDHUF	3:30:00 PM	189.52	189.68			N/A
4/22/2019	NZDJPY	9:30:00 AM	74.681	74.754			N/A
4/22/2019	NZDJPY	11:30:00 AM	74.71	74.786			N/A
4/22/2019	NZDJPY	1:30:00 PM	74.736	74.809			N/A
4/22/2019	NZDJPY	3:30:00 PM	74.654	74.727			N/A
4/22/2019	NZDJPY.fx	9:30:00 AM	74.711	74.722			N/A
4/22/2019	NZDJPY.fx	11:30:00 AM	74.742	74.753			N/A

4/22/2019	NZDJPY.fx	1:30:00 PM	74.767	74.777			N/A
4/22/2019	NZDJPY.fx	3:30:00 PM	74.685	74.695			N/A
4/22/2019	NZDMXN	9:30:00 AM	12.5389	12.5452			N/A
4/22/2019	NZDMXN	11:30:00 AM	12.5475	12.5544			N/A
4/22/2019	NZDMXN	1:30:00 PM	12.5435	12.5498			N/A
4/22/2019	NZDMXN	3:30:00 PM	12.5426	12.5463			N/A
4/22/2019	NZDNOK	9:30:00 AM	5.6714	5.6752			N/A
4/22/2019	NZDNOK	11:30:00 AM	5.6751	5.6789			N/A
4/22/2019	NZDNOK	1:30:00 PM	5.6746	5.6786			N/A
4/22/2019	NZDNOK	3:30:00 PM	5.6699	5.6723			N/A
4/22/2019	NZDPLN	9:30:00 AM	2.5414	2.5428			N/A
4/22/2019	NZDPLN	11:30:00 AM	2.5407	2.5421			N/A
4/22/2019	NZDPLN	1:30:00 PM	2.5399	2.5413			N/A
4/22/2019	NZDPLN	3:30:00 PM	2.5365	2.538			N/A
4/22/2019	NZDSEK	9:30:00 AM	6.2027	6.2096			N/A
4/22/2019	NZDSEK	11:30:00 AM	6.2111	6.2181			N/A
4/22/2019	NZDSEK	1:30:00 PM	6.2091	6.216			N/A
4/22/2019	NZDSEK	3:30:00 PM	6.2056	6.2122			N/A
4/22/2019	NZDSGD	9:30:00 AM	0.9055	0.9061			N/A
4/22/2019	NZDSGD	11:30:00 AM	0.9058	0.9063			N/A
4/22/2019	NZDSGD	1:30:00 PM	0.9058	0.9064			N/A
4/22/2019	NZDSGD	3:30:00 PM	0.9052	0.9058			N/A
4/22/2019	NZDSGD.fx	9:30:00 AM	0.90548	0.90605			N/A
4/22/2019	NZDSGD.fx	11:30:00 AM	0.90589	0.90655			N/A
4/22/2019	NZDSGD.fx	1:30:00 PM	0.90578	0.90637			N/A
4/22/2019	NZDSGD.fx	3:30:00 PM	0.9051	0.90571			N/A
4/22/2019	NZDUSD	9:30:00 AM	0.66752	0.66764			N/A
4/22/2019	NZDUSD	11:30:00 AM	0.66776	0.66796			N/A
4/22/2019	NZDUSD	1:30:00 PM	0.66792	0.66808			N/A
4/22/2019	NZDUSD	3:30:00 PM	0.66722	0.66737			N/A
4/22/2019	NZDUSD.fx	9:30:00 AM	0.66758	0.66768			N/A
4/22/2019	NZDUSD.fx	11:30:00 AM	0.66783	0.66796			N/A
4/22/2019	NZDUSD.fx	1:30:00 PM	0.66799	0.6681			N/A
4/22/2019	NZDUSD.fx	3:30:00 PM	0.66728	0.66739			N/A

4/22/2019	NZDZAR	9:30:00 AM	9.399	9.4163			N/A
4/22/2019	NZDZAR	11:30:00 AM	9.4058	9.4235			N/A
4/22/2019	NZDZAR	1:30:00 PM	9.4141	9.4319			N/A
4/22/2019	NZDZAR	3:30:00 PM	9.4064	9.4224			N/A
4/22/2019	SEKJPY	9:30:00 AM	12.03	12.04			N/A
4/22/2019	SEKJPY	11:30:00 AM					N/A
4/22/2019	SEKJPY	1:30:00 PM					N/A
4/22/2019	SEKJPY	3:30:00 PM	12.02	12.03			N/A
4/22/2019	SEKJPY.fx	9:30:00 AM	12.023	12.042			N/A
4/22/2019	SEKJPY.fx	11:30:00 AM	12.011	12.031			N/A
4/22/2019	SEKJPY.fx	1:30:00 PM	12.02	12.041			N/A
4/22/2019	SEKJPY.fx	3:30:00 PM	12.014	12.032			N/A
4/22/2019	SGDJPY	9:30:00 AM	82.47	82.49			N/A
4/22/2019	SGDJPY	11:30:00 AM	82.47	82.49			N/A
4/22/2019	SGDJPY	1:30:00 PM	82.53	82.55			N/A
4/22/2019	SGDJPY	3:30:00 PM	82.48	82.49			N/A
4/22/2019	SILVER	9:30:00 AM	14.86	15.25			N/A
4/22/2019	SILVER	11:30:00 AM	14.83	15.22			N/A
4/22/2019	SILVER	1:30:00 PM	14.85	15.23			N/A
4/22/2019	SILVER	3:30:00 PM	14.83	15.2			N/A
4/22/2019	SPX500.i	9:30:00 AM	2901.89	2902.94			N/A
4/22/2019	SPX500.i	11:30:00 AM					N/A
4/22/2019	SPX500.i	1:30:00 PM					N/A
4/22/2019	SPX500.i	3:30:00 PM	2898.89	2899.19			N/A
4/22/2019	UK100.i	9:30:00 AM					N/A
4/22/2019	UK100.i	11:30:00 AM					N/A
4/22/2019	UK100.i	1:30:00 PM					N/A
4/22/2019	UK100.i	3:30:00 PM					N/A
4/22/2019	USDCAD	9:30:00 AM	1.33669	1.33677			N/A
4/22/2019	USDCAD	11:30:00 AM	1.3362	1.33637			N/A
4/22/2019	USDCAD	1:30:00 PM	1.33557	1.33572			N/A
4/22/2019	USDCAD	3:30:00 PM	1.3369	1.33686			N/A
4/22/2019	USDCAD.fx	9:30:00 AM	1.33672	1.33675			N/A
4/22/2019	USDCAD.fx	11:30:00 AM	1.33623	1.33634			N/A

4/22/2019	USDCAD.fx	1:30:00 PM	1.3356	1.3357			N/A
4/22/2019	USDCAD.fx	3:30:00 PM	1.33693	1.33684			N/A
4/22/2019	USDCHE	9:30:00 AM	1.01453	1.0147			N/A
4/22/2019	USDCHE	11:30:00 AM	1.0149	1.01503			N/A
4/22/2019	USDCHE	1:30:00 PM	1.01466	1.01481			N/A
4/22/2019	USDCHE	3:30:00 PM	1.01476	1.01488			N/A
4/22/2019	USDCHE.fx	9:30:00 AM	1.01457	1.01464			N/A
4/22/2019	USDCHE.fx	11:30:00 AM	1.01496	1.01496			N/A
4/22/2019	USDCHE.fx	1:30:00 PM	1.0147	1.01474			N/A
4/22/2019	USDCHE.fx	3:30:00 PM	1.0148	1.01483			N/A
4/22/2019	USDCZK	9:30:00 AM	22.844	22.866			N/A
4/22/2019	USDCZK	11:30:00 AM	22.842	22.865			N/A
4/22/2019	USDCZK	1:30:00 PM					N/A
4/22/2019	USDCZK	3:30:00 PM	22.827	22.849			N/A
4/22/2019	USDCZK.fx	9:30:00 AM	22.8507	22.858			N/A
4/22/2019	USDCZK.fx	11:30:00 AM	22.8492	22.8571			N/A
4/22/2019	USDCZK.fx	1:30:00 PM	22.8379	22.845			N/A
4/22/2019	USDCZK.fx	3:30:00 PM	22.8343	22.8419			N/A
4/22/2019	USDDKK	9:30:00 AM	6.6406	6.6444			N/A
4/22/2019	USDDKK	11:30:00 AM	6.6386	6.6429			N/A
4/22/2019	USDDKK	1:30:00 PM	6.6348	6.6392			N/A
4/22/2019	USDDKK	3:30:00 PM	6.6342	6.6378			N/A
4/22/2019	USDDKK.fx	9:30:00 AM	6.641	6.6422			N/A
4/22/2019	USDDKK.fx	11:30:00 AM	6.63903	6.64091			N/A
4/22/2019	USDDKK.fx	1:30:00 PM	6.6353	6.63725			N/A
4/22/2019	USDDKK.fx	3:30:00 PM	6.63444	6.63586			N/A
4/22/2019	USDHKD	9:30:00 AM	7.8439	7.8444			N/A
4/22/2019	USDHKD	11:30:00 AM	7.8449	7.8453			N/A
4/22/2019	USDHKD	1:30:00 PM					N/A
4/22/2019	USDHKD	3:30:00 PM	7.8444	7.8447			N/A
4/22/2019	USDHKD.fx	9:30:00 AM					N/A
4/22/2019	USDHKD.fx	11:30:00 AM	7.84487	7.84546			N/A
4/22/2019	USDHKD.fx	1:30:00 PM					N/A
4/22/2019	USDHKD.fx	3:30:00 PM	7.84431	7.84493			N/A

4/22/2019	USDHUF	9:30:00 AM	284.71	285.16			N/A
4/22/2019	USDHUF	11:30:00 AM	284.61	285.08			N/A
4/22/2019	USDHUF	1:30:00 PM	284.23	284.69			N/A
4/22/2019	USDHUF	3:30:00 PM	284.2	284.55			N/A
4/22/2019	USDHUF.fx	9:30:00 AM	284.91	284.975			N/A
4/22/2019	USDHUF.fx	11:30:00 AM	284.807	284.903			N/A
4/22/2019	USDHUF.fx	1:30:00 PM	284.425	284.525			N/A
4/22/2019	USDHUF.fx	3:30:00 PM	284.369	284.352			N/A
4/22/2019	USDINR	9:30:00 AM	64.69	74.68			N/A
4/22/2019	USDINR	11:30:00 AM	64.51	74.5			N/A
4/22/2019	USDINR	1:30:00 PM					N/A
4/22/2019	USDINR	3:30:00 PM					N/A
4/22/2019	USDJPY	9:30:00 AM	111.908	111.92			N/A
4/22/2019	USDJPY	11:30:00 AM	111.908	111.922			N/A
4/22/2019	USDJPY	1:30:00 PM	111.918	111.937			N/A
4/22/2019	USDJPY	3:30:00 PM	111.915	111.93			N/A
4/22/2019	USDJPY.fx	9:30:00 AM	111.914	111.913			N/A
4/22/2019	USDJPY.fx	11:30:00 AM	111.914	111.915			N/A
4/22/2019	USDJPY.fx	1:30:00 PM	111.923	111.93			N/A
4/22/2019	USDJPY.fx	3:30:00 PM	111.921	111.922			N/A
4/22/2019	USDMXN	9:30:00 AM	18.79	18.798			N/A
4/22/2019	USDMXN	11:30:00 AM	18.795	18.802			N/A
4/22/2019	USDMXN	1:30:00 PM	18.784	18.793			N/A
4/22/2019	USDMXN	3:30:00 PM	18.804	18.809			N/A
4/22/2019	USDMXN.f	9:30:00 AM	18.7936	18.795			N/A
4/22/2019	USDMXN.f	11:30:00 AM	18.7992	18.8013			N/A
4/22/2019	USDMXN.f	1:30:00 PM	18.7867	18.7905			N/A
4/22/2019	USDMXN.f	3:30:00 PM	18.8074	18.8058			N/A
4/22/2019	USDNOK	9:30:00 AM	8.4977	8.5057			N/A
4/22/2019	USDNOK	11:30:00 AM	8.4991	8.5081			N/A
4/22/2019	USDNOK	1:30:00 PM	8.4965	8.5055			N/A
4/22/2019	USDNOK	3:30:00 PM	8.4991	8.5077			N/A
4/22/2019	USDNOK.fx	9:30:00 AM	8.50157	8.50142			N/A
4/22/2019	USDNOK.fx	11:30:00 AM	8.50298	8.50374			N/A

4/22/2019	USDNOK.fx	1:30:00 PM	8.50013	8.50096			N/A
4/22/2019	USDNOK.fx	3:30:00 PM	8.50287	8.5034			N/A
4/22/2019	USDPLN	9:30:00 AM	3.8082	3.8092			N/A
4/22/2019	USDPLN	11:30:00 AM	3.8054	3.8069			N/A
4/22/2019	USDPLN	1:30:00 PM	3.8033	3.8049			N/A
4/22/2019	USDPLN	3:30:00 PM	3.8027	3.8042			N/A
4/22/2019	USDPLN.fx	9:30:00 AM	3.80715	3.81008			N/A
4/22/2019	USDPLN.fx	11:30:00 AM	3.80437	3.80838			N/A
4/22/2019	USDPLN.fx	1:30:00 PM	3.80234	3.80622			N/A
4/22/2019	USDPLN.fx	3:30:00 PM	3.80168	3.80524			N/A
4/22/2019	USDRUB	9:30:00 AM					N/A
4/22/2019	USDRUB	11:30:00 AM	63.571	63.961			N/A
4/22/2019	USDRUB	1:30:00 PM	63.598	63.991			N/A
4/22/2019	USDRUB	3:30:00 PM	63.581	63.979			N/A
4/22/2019	USDSEK	9:30:00 AM	9.2976	9.3017			N/A
4/22/2019	USDSEK	11:30:00 AM	9.3064	9.3114			N/A
4/22/2019	USDSEK	1:30:00 PM	9.3005	9.3056			N/A
4/22/2019	USDSEK	3:30:00 PM	9.3069	9.3101			N/A
4/22/2019	USDSEK.fx	9:30:00 AM	9.2999	9.30013			N/A
4/22/2019	USDSEK.fx	11:30:00 AM	9.30887	9.3098			N/A
4/22/2019	USDSEK.fx	1:30:00 PM	9.30284	9.30384			N/A
4/22/2019	USDSEK.fx	3:30:00 PM	9.30935	9.30842			N/A
4/22/2019	USDSGD	9:30:00 AM	1.3566	1.3569			N/A
4/22/2019	USDSGD	11:30:00 AM					N/A
4/22/2019	USDSGD	1:30:00 PM	1.3561	1.3564			N/A
4/22/2019	USDSGD	3:30:00 PM	1.3566	1.3569			N/A
4/22/2019	USDSGD.fx	9:30:00 AM	1.35646	1.35697			N/A
4/22/2019	USDSGD.fx	11:30:00 AM	1.35656	1.35709			N/A
4/22/2019	USDSGD.fx	1:30:00 PM	1.35601	1.35658			N/A
4/22/2019	USDSGD.fx	3:30:00 PM	1.35651	1.35704			N/A
4/22/2019	USDZAR	9:30:00 AM	14.0915	14.1065			N/A
4/22/2019	USDZAR	11:30:00 AM	14.0955	14.1137			N/A
4/22/2019	USDZAR	1:30:00 PM	14.1038	14.1237			N/A
4/22/2019	USDZAR	3:30:00 PM	14.1098	14.128			N/A

4/22/2019	USDZAR.fx	9:30:00 AM	14.09657	14.10301			N/A
4/22/2019	USDZAR.fx	11:30:00 AM	14.10107	14.10812			N/A
4/22/2019	USDZAR.fx	1:30:00 PM	14.1095	14.11791			N/A
4/22/2019	USDZAR.fx	3:30:00 PM	14.11617	14.12268			N/A
4/22/2019	XAUUSD	9:30:00 AM	1278.27	1278.67			N/A
4/22/2019	XAUUSD	11:30:00 AM	1278.22	1278.57			N/A
4/22/2019	XAUUSD	1:30:00 PM	1279.19	1279.57			N/A
4/22/2019	XAUUSD	3:30:00 PM	1277.56	1277.48			N/A
4/22/2019	ZARJPY	9:30:00 AM	7.92	7.94			N/A
4/22/2019	ZARJPY	11:30:00 AM	7.92	7.93			N/A
4/22/2019	ZARJPY	1:30:00 PM					N/A
4/22/2019	ZARJPY	3:30:00 PM	7.9	7.94			N/A
4/22/2019	ZARJPY.fx	9:30:00 AM	7.934	7.939			N/A
4/22/2019	ZARJPY.fx	11:30:00 AM	7.932	7.937			N/A
4/22/2019	ZARJPY.fx	1:30:00 PM	7.928	7.934			N/A
4/22/2019	ZARJPY.fx	3:30:00 PM	7.924	7.929			N/A
4/23/2019	#AA	9:30:00 AM					N/A
4/23/2019	#AA	11:30:00 AM					N/A
4/23/2019	#AA	1:30:00 PM					N/A
4/23/2019	#AA	3:30:00 PM					N/A
4/23/2019	#AABA	9:30:00 AM					N/A
4/23/2019	#AABA	11:30:00 AM					N/A
4/23/2019	#AABA	1:30:00 PM					N/A
4/23/2019	#AABA	3:30:00 PM					N/A
4/23/2019	#AAL	9:30:00 AM					N/A
4/23/2019	#AAL	11:30:00 AM					N/A
4/23/2019	#AAL	1:30:00 PM					N/A
4/23/2019	#AAL	3:30:00 PM					N/A
4/23/2019	#AAPL	9:30:00 AM					N/A
4/23/2019	#AAPL	11:30:00 AM					N/A
4/23/2019	#AAPL	1:30:00 PM					N/A
4/23/2019	#AAPL	3:30:00 PM					N/A
4/23/2019	#ADBE	9:30:00 AM					N/A
4/23/2019	#ADBE	11:30:00 AM					N/A

4/23/2019	#ADBE	1:30:00 PM					N/A
4/23/2019	#ADBE	3:30:00 PM					N/A
4/23/2019	#AIG	9:30:00 AM					N/A
4/23/2019	#AIG	11:30:00 AM					N/A
4/23/2019	#AIG	1:30:00 PM					N/A
4/23/2019	#AIG	3:30:00 PM					N/A
4/23/2019	#AMD	9:30:00 AM					N/A
4/23/2019	#AMD	11:30:00 AM					N/A
4/23/2019	#AMD	1:30:00 PM					N/A
4/23/2019	#AMD	3:30:00 PM					N/A
4/23/2019	#AMZN	9:30:00 AM					N/A
4/23/2019	#AMZN	11:30:00 AM					N/A
4/23/2019	#AMZN	1:30:00 PM					N/A
4/23/2019	#AMZN	3:30:00 PM					N/A
4/23/2019	#AXP	9:30:00 AM					N/A
4/23/2019	#AXP	11:30:00 AM					N/A
4/23/2019	#AXP	1:30:00 PM					N/A
4/23/2019	#AXP	3:30:00 PM					N/A
4/23/2019	#BA	9:30:00 AM					N/A
4/23/2019	#BA	11:30:00 AM					N/A
4/23/2019	#BA	1:30:00 PM					N/A
4/23/2019	#BA	3:30:00 PM					N/A
4/23/2019	#BABA	9:30:00 AM					N/A
4/23/2019	#BABA	11:30:00 AM					N/A
4/23/2019	#BABA	1:30:00 PM					N/A
4/23/2019	#BABA	3:30:00 PM					N/A
4/23/2019	#BAC	9:30:00 AM					N/A
4/23/2019	#BAC	11:30:00 AM					N/A
4/23/2019	#BAC	1:30:00 PM					N/A
4/23/2019	#BAC	3:30:00 PM					N/A
4/23/2019	#BARC	9:30:00 AM					N/A
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4/23/2019	#UL	9:30:00 AM					N/A
4/23/2019	#UL	11:30:00 AM					N/A
4/23/2019	#UL	1:30:00 PM					N/A
4/23/2019	#UL	3:30:00 PM					N/A
4/23/2019	#UPS	9:30:00 AM					N/A
4/23/2019	#UPS	11:30:00 AM					N/A
4/23/2019	#UPS	1:30:00 PM					N/A
4/23/2019	#UPS	3:30:00 PM					N/A
4/23/2019	#UTX	9:30:00 AM					N/A
4/23/2019	#UTX	11:30:00 AM					N/A
4/23/2019	#UTX	1:30:00 PM					N/A
4/23/2019	#UTX	3:30:00 PM					N/A
4/23/2019	#V	9:30:00 AM					N/A
4/23/2019	#V	11:30:00 AM					N/A
4/23/2019	#V	1:30:00 PM					N/A
4/23/2019	#V	3:30:00 PM					N/A
4/23/2019	#VOD	9:30:00 AM					N/A
4/23/2019	#VOD	11:30:00 AM					N/A
4/23/2019	#VOD	1:30:00 PM					N/A
4/23/2019	#VOD	3:30:00 PM					N/A
4/23/2019	#VZ	9:30:00 AM					N/A
4/23/2019	#VZ	11:30:00 AM					N/A
4/23/2019	#VZ	1:30:00 PM					N/A
4/23/2019	#VZ	3:30:00 PM					N/A
4/23/2019	#WDC	9:30:00 AM					N/A
4/23/2019	#WDC	11:30:00 AM					N/A
4/23/2019	#WDC	1:30:00 PM					N/A
4/23/2019	#WDC	3:30:00 PM					N/A
4/23/2019	#WFC	9:30:00 AM					N/A
4/23/2019	#WFC	11:30:00 AM					N/A

4/23/2019	#WFC	1:30:00 PM					N/A
4/23/2019	#WFC	3:30:00 PM					N/A
4/23/2019	#WMT	9:30:00 AM					N/A
4/23/2019	#WMT	11:30:00 AM					N/A
4/23/2019	#WMT	1:30:00 PM					N/A
4/23/2019	#WMT	3:30:00 PM					N/A
4/23/2019	#XOM	9:30:00 AM					N/A
4/23/2019	#XOM	11:30:00 AM					N/A
4/23/2019	#XOM	1:30:00 PM					N/A
4/23/2019	#XOM	3:30:00 PM					N/A
4/23/2019	#YHOO	9:30:00 AM					N/A
4/23/2019	#YHOO	11:30:00 AM					N/A
4/23/2019	#YHOO	1:30:00 PM					N/A
4/23/2019	#YHOO	3:30:00 PM					N/A
4/23/2019	#ZNGA	9:30:00 AM					N/A
4/23/2019	#ZNGA	11:30:00 AM					N/A
4/23/2019	#ZNGA	1:30:00 PM					N/A
4/23/2019	#ZNGA	3:30:00 PM					N/A
4/23/2019	AUDCAD	9:30:00 AM	0.95126	0.95192			N/A
4/23/2019	AUDCAD	11:30:00 AM	0.9506	0.95106			N/A
4/23/2019	AUDCAD	1:30:00 PM	0.95057	0.95129			N/A
4/23/2019	AUDCAD	3:30:00 PM	0.95207	0.95276			N/A
4/23/2019	AUDCAD.fx	9:30:00 AM	0.95158	0.95158			N/A
4/23/2019	AUDCAD.fx	11:30:00 AM	0.95092	0.95071			N/A
4/23/2019	AUDCAD.fx	1:30:00 PM	0.95092	0.95094			N/A
4/23/2019	AUDCAD.fx	3:30:00 PM	0.9524	0.9524			N/A
4/23/2019	AUDCHF	9:30:00 AM	0.72323	0.72389			N/A
4/23/2019	AUDCHF	11:30:00 AM	0.72408	0.7246			N/A
4/23/2019	AUDCHF	1:30:00 PM	0.72418	0.72483			N/A
4/23/2019	AUDCHF	3:30:00 PM	0.72488	0.72555			N/A
4/23/2019	AUDCHF.fx	9:30:00 AM	0.72357	0.72355			N/A
4/23/2019	AUDCHF.fx	11:30:00 AM	0.72441	0.72425			N/A
4/23/2019	AUDCHF.fx	1:30:00 PM	0.72452	0.72449			N/A
4/23/2019	AUDCHF.fx	3:30:00 PM	0.72523	0.7252			N/A

4/23/2019	AUDCZK	9:30:00 AM	16.254	16.272			N/A
4/23/2019	AUDCZK	11:30:00 AM	16.241	16.255			N/A
4/23/2019	AUDCZK	1:30:00 PM	16.248	16.265			N/A
4/23/2019	AUDCZK	3:30:00 PM	16.254	16.271			N/A
4/23/2019	AUDDKK	9:30:00 AM	4.7231	4.728			N/A
4/23/2019	AUDDKK	11:30:00 AM	4.7189	4.7226			N/A
4/23/2019	AUDDKK	1:30:00 PM	4.7169	4.7215			N/A
4/23/2019	AUDDKK	3:30:00 PM	4.719	4.7234			N/A
4/23/2019	AUDHKD	9:30:00 AM	5.5817	5.5855			N/A
4/23/2019	AUDHKD	11:30:00 AM	5.5774	5.5814			N/A
4/23/2019	AUDHKD	1:30:00 PM	5.5747	5.5785			N/A
4/23/2019	AUDHKD	3:30:00 PM	5.5753	5.5792			N/A
4/23/2019	AUDHUF	9:30:00 AM	202.51	202.75			N/A
4/23/2019	AUDHUF	11:30:00 AM	202.62	202.83			N/A
4/23/2019	AUDHUF	1:30:00 PM	202.72	202.96			N/A
4/23/2019	AUDHUF	3:30:00 PM	202.62	202.85			N/A
4/23/2019	AUDJPY	9:30:00 AM	79.626	79.688			N/A
4/23/2019	AUDJPY	11:30:00 AM	79.548	79.594			N/A
4/23/2019	AUDJPY	1:30:00 PM	79.513	79.581			N/A
4/23/2019	AUDJPY	3:30:00 PM	79.52	79.587			N/A
4/23/2019	AUDJPY.fx	9:30:00 AM	79.66	79.653			N/A
4/23/2019	AUDJPY.fx	11:30:00 AM	79.581	79.559			N/A
4/23/2019	AUDJPY.fx	1:30:00 PM	79.547	79.546			N/A
4/23/2019	AUDJPY.fx	3:30:00 PM	79.554	79.552			N/A
4/23/2019	AUDMXN	9:30:00 AM	13.4103	13.4195			N/A
4/23/2019	AUDMXN	11:30:00 AM	13.4295	13.4368			N/A
4/23/2019	AUDMXN	1:30:00 PM	13.4245	13.4327			N/A
4/23/2019	AUDMXN	3:30:00 PM	13.4153	13.4244			N/A
4/23/2019	AUDNOK	9:30:00 AM	6.0532	6.057			N/A
4/23/2019	AUDNOK	11:30:00 AM	6.0608	6.0655			N/A
4/23/2019	AUDNOK	1:30:00 PM	6.0576	6.0629			N/A
4/23/2019	AUDNOK	3:30:00 PM	6.0684	6.0731			N/A
4/23/2019	AUDNOK.f	9:30:00 AM	6.0548	6.0553			N/A
4/23/2019	AUDNOK.f	11:30:00 AM	6.0624	6.0637			N/A

4/23/2019	AUDNOK.f	1:30:00 PM	6.0592	6.061			N/A
4/23/2019	AUDNOK.f	3:30:00 PM	6.0701	6.0712			N/A
4/23/2019	AUDNZD	9:30:00 AM	1.06795	1.06878			N/A
4/23/2019	AUDNZD	11:30:00 AM	1.06765	1.06846			N/A
4/23/2019	AUDNZD	1:30:00 PM	1.06702	1.06793			N/A
4/23/2019	AUDNZD	3:30:00 PM	1.06776	1.06868			N/A
4/23/2019	AUDNZD.f	9:30:00 AM	1.06837	1.06831			N/A
4/23/2019	AUDNZD.f	11:30:00 AM	1.0681	1.068			N/A
4/23/2019	AUDNZD.f	1:30:00 PM	1.06747	1.06747			N/A
4/23/2019	AUDNZD.f	3:30:00 PM	1.0682	1.06823			N/A
4/23/2019	AUDPLN	9:30:00 AM	2.71	2.7131			N/A
4/23/2019	AUDPLN	11:30:00 AM	2.7105	2.713			N/A
4/23/2019	AUDPLN	1:30:00 PM	2.71	2.713			N/A
4/23/2019	AUDPLN	3:30:00 PM	2.7097	2.7129			N/A
4/23/2019	AUDSEK	9:30:00 AM	6.6366	6.6399			N/A
4/23/2019	AUDSEK	11:30:00 AM	6.6385	6.6409			N/A
4/23/2019	AUDSEK	1:30:00 PM	6.6369	6.6393			N/A
4/23/2019	AUDSEK	3:30:00 PM	6.6441	6.6469			N/A
4/23/2019	AUDSEK.f	9:30:00 AM	6.632	6.6442			N/A
4/23/2019	AUDSEK.f	11:30:00 AM	6.6339	6.6454			N/A
4/23/2019	AUDSEK.f	1:30:00 PM	6.6323	6.6445			N/A
4/23/2019	AUDSEK.f	3:30:00 PM	6.6396	6.6514			N/A
4/23/2019	AUDSGD	9:30:00 AM	0.9656	0.9659			N/A
4/23/2019	AUDSGD	11:30:00 AM	0.9656	0.9657			N/A
4/23/2019	AUDSGD	1:30:00 PM	0.9647	0.9647			N/A
4/23/2019	AUDSGD	3:30:00 PM	0.9649	0.9651			N/A
4/23/2019	AUDSGD.f	9:30:00 AM	0.96567	0.96578			N/A
4/23/2019	AUDSGD.f	11:30:00 AM	0.96563	0.9655			N/A
4/23/2019	AUDSGD.f	1:30:00 PM	0.96479	0.96487			N/A
4/23/2019	AUDSGD.f	3:30:00 PM	0.96494	0.96503			N/A
4/23/2019	AUDUSD	9:30:00 AM	0.71188	0.71195			N/A
4/23/2019	AUDUSD	11:30:00 AM	0.7115	0.71145			N/A
4/23/2019	AUDUSD	1:30:00 PM	0.71109	0.71121			N/A
4/23/2019	AUDUSD	3:30:00 PM	0.71111	0.71118			N/A

4/23/2019	AUDUSD.fx	9:30:00 AM	0.71193	0.7119			N/A
4/23/2019	AUDUSD.fx	11:30:00 AM	0.71155	0.71139			N/A
4/23/2019	AUDUSD.fx	1:30:00 PM	0.71115	0.71114			N/A
4/23/2019	AUDUSD.fx	3:30:00 PM	0.71116	0.71112			N/A
4/23/2019	AUDZAR	9:30:00 AM	10.0631	10.0776			N/A
4/23/2019	AUDZAR	11:30:00 AM	10.1051	10.1186			N/A
4/23/2019	AUDZAR	1:30:00 PM	10.0936	10.1032			N/A
4/23/2019	AUDZAR	3:30:00 PM	10.0928	10.1079			N/A
4/23/2019	AUS200.i	9:30:00 AM					N/A
4/23/2019	AUS200.i	11:30:00 AM	6325.56	6329.56			N/A
4/23/2019	AUS200.i	1:30:00 PM					N/A
4/23/2019	AUS200.i	3:30:00 PM	6337.56	6341.26			N/A
4/23/2019	BCHUSD	9:30:00 AM	309.14	310.63			N/A
4/23/2019	BCHUSD	11:30:00 AM	313.48	314.87			N/A
4/23/2019	BCHUSD	1:30:00 PM	310.17	312.07			N/A
4/23/2019	BCHUSD	3:30:00 PM	307.91	309.56			N/A
4/23/2019	CADCHF	9:30:00 AM	0.76014	0.76075			N/A
4/23/2019	CADCHF	11:30:00 AM	0.76156	0.76218			N/A
4/23/2019	CADCHF	1:30:00 PM	0.7616	0.76229			N/A
4/23/2019	CADCHF	3:30:00 PM	0.76118	0.76185			N/A
4/23/2019	CADCHF.fx	9:30:00 AM	0.76048	0.76039			N/A
4/23/2019	CADCHF.fx	11:30:00 AM	0.76191	0.76183			N/A
4/23/2019	CADCHF.fx	1:30:00 PM	0.76194	0.76191			N/A
4/23/2019	CADCHF.fx	3:30:00 PM	0.76152	0.76149			N/A
4/23/2019	CADCZK	9:30:00 AM	17.084	17.1			N/A
4/23/2019	CADCZK	11:30:00 AM	17.081	17.098			N/A
4/23/2019	CADCZK	1:30:00 PM	17.09	17.106			N/A
4/23/2019	CADCZK	3:30:00 PM	17.07	17.085			N/A
4/23/2019	CADDDKK	9:30:00 AM	4.965	4.969			N/A
4/23/2019	CADDDKK	11:30:00 AM					N/A
4/23/2019	CADDDKK	1:30:00 PM					N/A
4/23/2019	CADDDKK	3:30:00 PM					N/A
4/23/2019	CADHKD	9:30:00 AM	5.8664	5.8695			N/A
4/23/2019	CADHKD	11:30:00 AM	5.8677	5.8715			N/A

4/23/2019	CADHKD	1:30:00 PM	5.8633	5.8672			N/A
4/23/2019	CADHKD	3:30:00 PM	5.8548	5.8586			N/A
4/23/2019	CADHUF	9:30:00 AM	212.88	213.03			N/A
4/23/2019	CADHUF	11:30:00 AM	213.16	213.32			N/A
4/23/2019	CADHUF	1:30:00 PM	213.24	213.41			N/A
4/23/2019	CADHUF	3:30:00 PM	212.82	212.95			N/A
4/23/2019	CADJPY	9:30:00 AM	83.684	83.746			N/A
4/23/2019	CADJPY	11:30:00 AM	83.654	83.721			N/A
4/23/2019	CADJPY	1:30:00 PM	83.62	83.692			N/A
4/23/2019	CADJPY	3:30:00 PM	83.504	83.567			N/A
4/23/2019	CADJPY.fx	9:30:00 AM	83.717	83.71			N/A
4/23/2019	CADJPY.fx	11:30:00 AM	83.687	83.687			N/A
4/23/2019	CADJPY.fx	1:30:00 PM	83.653	83.657			N/A
4/23/2019	CADJPY.fx	3:30:00 PM	83.537	83.532			N/A
4/23/2019	CADMXN	9:30:00 AM	14.0939	14.1061			N/A
4/23/2019	CADMXN	11:30:00 AM	14.1238	14.1357			N/A
4/23/2019	CADMXN	1:30:00 PM	14.1183	14.1284			N/A
4/23/2019	CADMXN	3:30:00 PM	14.087	14.0967			N/A
4/23/2019	CADNOK	9:30:00 AM	6.3601	6.3642			N/A
4/23/2019	CADNOK	11:30:00 AM	6.374	6.378			N/A
4/23/2019	CADNOK	1:30:00 PM	6.3698	6.3745			N/A
4/23/2019	CADNOK	3:30:00 PM	6.3705	6.3754			N/A
4/23/2019	CADPLN	9:30:00 AM	2.8479	2.8498			N/A
4/23/2019	CADPLN	11:30:00 AM	2.8509	2.8528			N/A
4/23/2019	CADPLN	1:30:00 PM	2.8501	2.8518			N/A
4/23/2019	CADPLN	3:30:00 PM	2.8453	2.8472			N/A
4/23/2019	CADSEK	9:30:00 AM	6.9728	6.9767			N/A
4/23/2019	CADSEK	11:30:00 AM	6.9814	6.9843			N/A
4/23/2019	CADSEK	1:30:00 PM	6.979	6.9823			N/A
4/23/2019	CADSEK	3:30:00 PM	6.9755	6.9782			N/A
4/23/2019	CADSGD	9:30:00 AM	1.014	1.0143			N/A
4/23/2019	CADSGD	11:30:00 AM	1.0148	1.0151			N/A
4/23/2019	CADSGD	1:30:00 PM	1.0139	1.0142			N/A
4/23/2019	CADSGD	3:30:00 PM	1.0127	1.0129			N/A

4/23/2019	CADZAR	9:30:00 AM	10.5752	10.5924			N/A
4/23/2019	CADZAR	11:30:00 AM	10.6271	10.6442			N/A
4/23/2019	CADZAR	1:30:00 PM	10.6162	10.6265			N/A
4/23/2019	CADZAR	3:30:00 PM	10.5979	10.6148			N/A
4/23/2019	CHFCZK	9:30:00 AM	22.47	22.485			N/A
4/23/2019	CHFCZK	11:30:00 AM	22.424	22.441			N/A
4/23/2019	CHFCZK	1:30:00 PM	22.434	22.449			N/A
4/23/2019	CHFCZK	3:30:00 PM	22.42	22.434			N/A
4/23/2019	CHFDKK	9:30:00 AM	6.529	6.531			N/A
4/23/2019	CHFDKK	11:30:00 AM	6.515	6.518			N/A
4/23/2019	CHFDKK	1:30:00 PM	6.512	6.515			N/A
4/23/2019	CHFDKK	3:30:00 PM	6.508	6.511			N/A
4/23/2019	CHFDKK.fx	9:30:00 AM	6.5271	6.5327			N/A
4/23/2019	CHFDKK.fx	11:30:00 AM	6.5134	6.5192			N/A
4/23/2019	CHFDKK.fx	1:30:00 PM	6.5101	6.5159			N/A
4/23/2019	CHFDKK.fx	3:30:00 PM	6.5063	6.5123			N/A
4/23/2019	CHFHKD	9:30:00 AM	7.7154	7.7193			N/A
4/23/2019	CHFHKD	11:30:00 AM	7.7034	7.7058			N/A
4/23/2019	CHFHKD	1:30:00 PM	7.6966	7.6996			N/A
4/23/2019	CHFHKD	3:30:00 PM	7.6893	7.6928			N/A
4/23/2019	CHFHUF	9:30:00 AM	279.88	280.25			N/A
4/23/2019	CHFHUF	11:30:00 AM	279.72	280.09			N/A
4/23/2019	CHFHUF	1:30:00 PM	279.81	280.18			N/A
4/23/2019	CHFHUF	3:30:00 PM	279.4	279.74			N/A
4/23/2019	CHFJPY	9:30:00 AM	110.055	110.122			N/A
4/23/2019	CHFJPY	11:30:00 AM	109.814	109.872			N/A
4/23/2019	CHFJPY	1:30:00 PM	109.764	109.819			N/A
4/23/2019	CHFJPY	3:30:00 PM	109.662	109.732			N/A
4/23/2019	CHFJPY.fx	9:30:00 AM	110.087	110.088			N/A
4/23/2019	CHFJPY.fx	11:30:00 AM	109.847	109.835			N/A
4/23/2019	CHFJPY.fx	1:30:00 PM	109.797	109.785			N/A
4/23/2019	CHFJPY.fx	3:30:00 PM	109.696	109.696			N/A
4/23/2019	CHFMXN	9:30:00 AM	18.5358	18.548			N/A
4/23/2019	CHFMXN	11:30:00 AM	18.5392	18.5537			N/A

4/23/2019	CHF MXN	1:30:00 PM	18.5319	18.5432			N/A
4/23/2019	CHF MXN	3:30:00 PM	18.4991	18.5129			N/A
4/23/2019	CHF NOK	9:30:00 AM	8.3645	8.3709			N/A
4/23/2019	CHF NOK	11:30:00 AM	8.3665	8.373			N/A
4/23/2019	CHF NOK	1:30:00 PM	8.3604	8.3682			N/A
4/23/2019	CHF NOK	3:30:00 PM	8.3663	8.3741			N/A
4/23/2019	CHF NOK.fx	9:30:00 AM	8.36801	8.36741			N/A
4/23/2019	CHF NOK.fx	11:30:00 AM	8.37006	8.3694			N/A
4/23/2019	CHF NOK.fx	1:30:00 PM	8.36395	8.3647			N/A
4/23/2019	CHF NOK.fx	3:30:00 PM	8.37014	8.37029			N/A
4/23/2019	CHF PLN	9:30:00 AM	3.7456	3.7485			N/A
4/23/2019	CHF PLN	11:30:00 AM	3.742	3.745			N/A
4/23/2019	CHF PLN	1:30:00 PM	3.7409	3.7436			N/A
4/23/2019	CHF PLN	3:30:00 PM	3.7371	3.7398			N/A
4/23/2019	CHF PLN.fx	9:30:00 AM	3.74326	3.75076			N/A
4/23/2019	CHF PLN.fx	11:30:00 AM	3.73954	3.74725			N/A
4/23/2019	CHF PLN.fx	1:30:00 PM	3.73854	3.74578			N/A
4/23/2019	CHF PLN.fx	3:30:00 PM	3.73474	3.74193			N/A
4/23/2019	CHF SEK	9:30:00 AM	9.1705	9.1747			N/A
4/23/2019	CHF SEK	11:30:00 AM	9.1647	9.1669			N/A
4/23/2019	CHF SEK	1:30:00 PM	9.1603	9.1641			N/A
4/23/2019	CHF SEK	3:30:00 PM	9.1607	9.164			N/A
4/23/2019	CHF SGD	9:30:00 AM	1.3344	1.3347			N/A
4/23/2019	CHF SGD	11:30:00 AM	1.3327	1.3331			N/A
4/23/2019	CHF SGD	1:30:00 PM	1.3317	1.3318			N/A
4/23/2019	CHF SGD	3:30:00 PM	1.3304	1.3307			N/A
4/23/2019	CHF SGD.fx	9:30:00 AM	1.33453	1.33457			N/A
4/23/2019	CHF SGD.fx	11:30:00 AM	1.33288	1.33287			N/A
4/23/2019	CHF SGD.fx	1:30:00 PM	1.33169	1.33157			N/A
4/23/2019	CHF SGD.fx	3:30:00 PM	1.33052	1.33047			N/A
4/23/2019	CHF ZAR	9:30:00 AM	13.9123	13.9241			N/A
4/23/2019	CHF ZAR	11:30:00 AM	13.9536	13.9673			N/A
4/23/2019	CHF ZAR	1:30:00 PM	13.9391	13.9429			N/A
4/23/2019	CHF ZAR	3:30:00 PM	13.9219	13.936			N/A

4/23/2019	CZKJPY	9:30:00 AM					N/A
4/23/2019	CZKJPY	11:30:00 AM	4.896	4.9			N/A
4/23/2019	CZKJPY	1:30:00 PM					N/A
4/23/2019	CZKJPY	3:30:00 PM	4.89	4.894			N/A
4/23/2019	DAX30.i	9:30:00 AM	12263.9	12258.9			N/A
4/23/2019	DAX30.i	11:30:00 AM	12224.65	12222.55			N/A
4/23/2019	DAX30.i	1:30:00 PM	12216.9	12215.4			N/A
4/23/2019	DAX30.i	3:30:00 PM	12223.65	12219.65			N/A
4/23/2019	DJ30.i	9:30:00 AM					N/A
4/23/2019	DJ30.i	11:30:00 AM					N/A
4/23/2019	DJ30.i	1:30:00 PM					N/A
4/23/2019	DJ30.i	3:30:00 PM					N/A
4/23/2019	DKKJPY	9:30:00 AM					N/A
4/23/2019	DKKJPY	11:30:00 AM					N/A
4/23/2019	DKKJPY	1:30:00 PM					N/A
4/23/2019	DKKJPY	3:30:00 PM					N/A
4/23/2019	EURAUD	9:30:00 AM	1.57918	1.57961			N/A
4/23/2019	EURAUD	11:30:00 AM	1.58102	1.58106			N/A
4/23/2019	EURAUD	1:30:00 PM	1.58142	1.58183			N/A
4/23/2019	EURAUD	3:30:00 PM	1.58073	1.58111			N/A
4/23/2019	EURAUD.fx	9:30:00 AM	1.57938	1.5794			N/A
4/23/2019	EURAUD.fx	11:30:00 AM	1.58122	1.58086			N/A
4/23/2019	EURAUD.fx	1:30:00 PM	1.58162	1.58162			N/A
4/23/2019	EURAUD.fx	3:30:00 PM	1.58093	1.5809			N/A
4/23/2019	EURCAD	9:30:00 AM	1.50301	1.50382			N/A
4/23/2019	EURCAD	11:30:00 AM	1.50338	1.50414			N/A
4/23/2019	EURCAD	1:30:00 PM	1.50409	1.50493			N/A
4/23/2019	EURCAD	3:30:00 PM	1.50577	1.50653			N/A
4/23/2019	EURCAD.fx	9:30:00 AM	1.50343	1.5034			N/A
4/23/2019	EURCAD.fx	11:30:00 AM	1.5038	1.50372			N/A
4/23/2019	EURCAD.fx	1:30:00 PM	1.5045	1.50451			N/A
4/23/2019	EURCAD.fx	3:30:00 PM	1.50619	1.50612			N/A
4/23/2019	EURCHF	9:30:00 AM	1.14327	1.14328			N/A
4/23/2019	EURCHF	11:30:00 AM	1.14562	1.1457			N/A

4/23/2019	EURCHF	1:30:00 PM	1.1463	1.14633			N/A
4/23/2019	EURCHF	3:30:00 PM	1.14689	1.147			N/A
4/23/2019	EURCHF.fx	9:30:00 AM	1.14333	1.14323			N/A
4/23/2019	EURCHF.fx	11:30:00 AM	1.14569	1.14564			N/A
4/23/2019	EURCHF.fx	1:30:00 PM	1.14635	1.14627			N/A
4/23/2019	EURCHF.fx	3:30:00 PM	1.14696	1.14694			N/A
4/23/2019	EURCZK	9:30:00 AM	25.676	25.715			N/A
4/23/2019	EURCZK	11:30:00 AM					N/A
4/23/2019	EURCZK	1:30:00 PM	25.702	25.741			N/A
4/23/2019	EURCZK	3:30:00 PM	25.701	25.739			N/A
4/23/2019	EURDKK	9:30:00 AM	7.4651	7.4663			N/A
4/23/2019	EURDKK	11:30:00 AM	7.4648	7.4658			N/A
4/23/2019	EURDKK	1:30:00 PM	7.4646	7.4652			N/A
4/23/2019	EURDKK	3:30:00 PM	7.4652	7.4663			N/A
4/23/2019	EURGBP	9:30:00 AM	0.86638	0.86635			N/A
4/23/2019	EURGBP	11:30:00 AM	0.86577	0.86584			N/A
4/23/2019	EURGBP	1:30:00 PM	0.86473	0.86473			N/A
4/23/2019	EURGBP	3:30:00 PM	0.86438	0.86442			N/A
4/23/2019	EURGBP.fx	9:30:00 AM	0.86641	0.8663			N/A
4/23/2019	EURGBP.fx	11:30:00 AM	0.86581	0.86579			N/A
4/23/2019	EURGBP.fx	1:30:00 PM	0.86476	0.86469			N/A
4/23/2019	EURGBP.fx	3:30:00 PM	0.86442	0.86437			N/A
4/23/2019	EURHKD	9:30:00 AM	8.8209	8.8258			N/A
4/23/2019	EURHKD	11:30:00 AM	8.8242	8.8292			N/A
4/23/2019	EURHKD	1:30:00 PM	8.8227	8.8276			N/A
4/23/2019	EURHKD	3:30:00 PM	8.8189	8.8238			N/A
4/23/2019	EURHKD.fx	9:30:00 AM	8.82373	8.82299			N/A
4/23/2019	EURHKD.fx	11:30:00 AM	8.82701	8.82634			N/A
4/23/2019	EURHKD.fx	1:30:00 PM	8.82551	8.82478			N/A
4/23/2019	EURHKD.fx	3:30:00 PM	8.82184	8.82094			N/A
4/23/2019	EURHUF	9:30:00 AM	319.9	320.62			N/A
4/23/2019	EURHUF	11:30:00 AM	320.4	321.02			N/A
4/23/2019	EURHUF	1:30:00 PM	320.67	321.39			N/A
4/23/2019	EURHUF	3:30:00 PM	320.42	321.06			N/A

4/23/2019	EURHUF.fx	9:30:00 AM	320.151	320.34			N/A
4/23/2019	EURHUF.fx	11:30:00 AM	320.685	320.868			N/A
4/23/2019	EURHUF.fx	1:30:00 PM					N/A
4/23/2019	EURHUF.fx	3:30:00 PM	320.685	320.824			N/A
4/23/2019	EURJPY	9:30:00 AM	125.859	125.86			N/A
4/23/2019	EURJPY	11:30:00 AM	125.849	125.848			N/A
4/23/2019	EURJPY	1:30:00 PM	125.856	125.858			N/A
4/23/2019	EURJPY	3:30:00 PM	125.811	125.816			N/A
4/23/2019	EURJPY.fx	9:30:00 AM	125.862	125.855			N/A
4/23/2019	EURJPY.fx	11:30:00 AM	125.851	125.843			N/A
4/23/2019	EURJPY.fx	1:30:00 PM	125.858	125.855			N/A
4/23/2019	EURJPY.fx	3:30:00 PM	125.814	125.811			N/A
4/23/2019	EURMXN	9:30:00 AM	21.1913	21.2092			N/A
4/23/2019	EURMXN	11:30:00 AM	21.2407	21.26			N/A
4/23/2019	EURMXN	1:30:00 PM	21.2439	21.2603			N/A
4/23/2019	EURMXN	3:30:00 PM	21.22	21.236			N/A
4/23/2019	EURMXN.f	9:30:00 AM	21.1998	21.2009			N/A
4/23/2019	EURMXN.f	11:30:00 AM	21.2491	21.2517			N/A
4/23/2019	EURMXN.f	1:30:00 PM	21.2524	21.2519			N/A
4/23/2019	EURMXN.f	3:30:00 PM	21.2293	21.2269			N/A
4/23/2019	EURNOK	9:30:00 AM	9.5618	9.5713			N/A
4/23/2019	EURNOK	11:30:00 AM	9.5827	9.5947			N/A
4/23/2019	EURNOK	1:30:00 PM	9.5817	9.5945			N/A
4/23/2019	EURNOK	3:30:00 PM	9.5941	9.6059			N/A
4/23/2019	EURNOK.fx	9:30:00 AM	9.56749	9.56572			N/A
4/23/2019	EURNOK.fx	11:30:00 AM	9.58816	9.58926			N/A
4/23/2019	EURNOK.fx	1:30:00 PM	9.58705	9.58905			N/A
4/23/2019	EURNOK.fx	3:30:00 PM	9.59971	9.60028			N/A
4/23/2019	EURNZD	9:30:00 AM	1.68761	1.68844			N/A
4/23/2019	EURNZD	11:30:00 AM	1.6889	1.68954			N/A
4/23/2019	EURNZD	1:30:00 PM	1.68855	1.68935			N/A
4/23/2019	EURNZD	3:30:00 PM	1.68902	1.68976	10	10	N/A
4/23/2019	EURNZD.fx	9:30:00 AM	1.68802	1.68802			N/A
4/23/2019	EURNZD.fx	11:30:00 AM	1.68931	1.68911			N/A

4/23/2019	EURNZD.fx	1:30:00 PM	1.68895	1.68893			N/A
4/23/2019	EURNZD.fx	3:30:00 PM	1.68943	1.68934			N/A
4/23/2019	EURPLN	9:30:00 AM	4.2825	4.2856			N/A
4/23/2019	EURPLN	11:30:00 AM	4.2871	4.2903			N/A
4/23/2019	EURPLN	1:30:00 PM	4.2885	4.2904			N/A
4/23/2019	EURPLN	3:30:00 PM	4.2862	4.2891			N/A
4/23/2019	EURPLN.fx	9:30:00 AM	4.28197	4.28612			N/A
4/23/2019	EURPLN.fx	11:30:00 AM	4.28647	4.29092			N/A
4/23/2019	EURPLN.fx	1:30:00 PM	4.2879	4.29152			N/A
4/23/2019	EURPLN.fx	3:30:00 PM	4.28547	4.28972			N/A
4/23/2019	EURRUB	9:30:00 AM					N/A
4/23/2019	EURRUB	11:30:00 AM	71.409	71.851			N/A
4/23/2019	EURRUB	1:30:00 PM	71.341	71.77			N/A
4/23/2019	EURRUB	3:30:00 PM	71.365	71.802			N/A
4/23/2019	EURSEK	9:30:00 AM	10.4856	10.4904			N/A
4/23/2019	EURSEK	11:30:00 AM	10.4992	10.5023			N/A
4/23/2019	EURSEK	1:30:00 PM	10.5009	10.506			N/A
4/23/2019	EURSEK	3:30:00 PM	10.5085	10.5114			N/A
4/23/2019	EURSEK.fx	9:30:00 AM	10.48724	10.48872			N/A
4/23/2019	EURSEK.fx	11:30:00 AM	10.50081	10.50204			N/A
4/23/2019	EURSEK.fx	1:30:00 PM	10.50263	10.50437			N/A
4/23/2019	EURSEK.fx	3:30:00 PM	10.5101	10.50971			N/A
4/23/2019	EURSGD	9:30:00 AM	1.5254	1.5262			N/A
4/23/2019	EURSGD	11:30:00 AM	1.5267	1.5275			N/A
4/23/2019	EURSGD	1:30:00 PM	1.526	1.5269			N/A
4/23/2019	EURSGD	3:30:00 PM	1.5256	1.5265			N/A
4/23/2019	EURSGD.fx	9:30:00 AM	1.52573	1.52574			N/A
4/23/2019	EURSGD.fx	11:30:00 AM	1.52703	1.52711			N/A
4/23/2019	EURSGD.fx	1:30:00 PM	1.5265	1.52649			N/A
4/23/2019	EURSGD.fx	3:30:00 PM	1.52598	1.52605			N/A
4/23/2019	EURUSD	9:30:00 AM	1.12458	1.12462			N/A
4/23/2019	EURUSD	11:30:00 AM	1.12497	1.12504			N/A
4/23/2019	EURUSD	1:30:00 PM	1.12488	1.12496			N/A
4/23/2019	EURUSD	3:30:00 PM	1.12439	1.12443			N/A

4/23/2019	EURUSD.fx	9:30:00 AM	1.12478	1.12471			N/A
4/23/2019	EURUSD.fx	11:30:00 AM	1.12517	1.12513			N/A
4/23/2019	EURUSD.fx	1:30:00 PM	1.12509	1.12505			N/A
4/23/2019	EURUSD.fx	3:30:00 PM	1.12459	1.12452			N/A
4/23/2019	EURZAR	9:30:00 AM	15.9083	15.9265			N/A
4/23/2019	EURZAR	11:30:00 AM	15.9892	16.0074			N/A
4/23/2019	EURZAR	1:30:00 PM	15.9801	15.9895			N/A
4/23/2019	EURZAR	3:30:00 PM	15.9707	15.9889			N/A
4/23/2019	EURZAR.fx	9:30:00 AM	15.90771	15.92743			N/A
4/23/2019	EURZAR.fx	11:30:00 AM	15.98895	16.00807			N/A
4/23/2019	EURZAR.fx	1:30:00 PM	15.97965	15.9901			N/A
4/23/2019	EURZAR.fx	3:30:00 PM	15.96991	15.98897			N/A
4/23/2019	GBPAUD	9:30:00 AM	1.82342	1.82387			N/A
4/23/2019	GBPAUD	11:30:00 AM	1.82658	1.82692			N/A
4/23/2019	GBPAUD	1:30:00 PM	1.82932	1.83004			N/A
4/23/2019	GBPAUD	3:30:00 PM	1.82927	1.82993			N/A
4/23/2019	GBPAUD.fx	9:30:00 AM	1.82379	1.82348			N/A
4/23/2019	GBPAUD.fx	11:30:00 AM	1.82696	1.82653			N/A
4/23/2019	GBPAUD.fx	1:30:00 PM	1.82973	1.82964			N/A
4/23/2019	GBPAUD.fx	3:30:00 PM	1.82964	1.82953			N/A
4/23/2019	GBPCAD	9:30:00 AM	1.73499	1.73561			N/A
4/23/2019	GBPCAD	11:30:00 AM	1.73659	1.7371			N/A
4/23/2019	GBPCAD	1:30:00 PM	1.73954	1.74018			N/A
4/23/2019	GBPCAD	3:30:00 PM	1.74213	1.74275			N/A
4/23/2019	GBPCAD.fx	9:30:00 AM	1.73536	1.73523			N/A
4/23/2019	GBPCAD.fx	11:30:00 AM	1.73695	1.7367			N/A
4/23/2019	GBPCAD.fx	1:30:00 PM	1.73992	1.73979			N/A
4/23/2019	GBPCAD.fx	3:30:00 PM	1.74251	1.7424			N/A
4/23/2019	GBPCHF	9:30:00 AM	1.31959	1.31972			N/A
4/23/2019	GBPCHF	11:30:00 AM	1.32302	1.32337			N/A
4/23/2019	GBPCHF	1:30:00 PM	1.32556	1.32571			N/A
4/23/2019	GBPCHF	3:30:00 PM	1.32666	1.3271			N/A
4/23/2019	GBPCHF.fx	9:30:00 AM	1.31978	1.31952			N/A
4/23/2019	GBPCHF.fx	11:30:00 AM	1.3232	1.32317			N/A

4/23/2019	GBPCHF.fx	1:30:00 PM	1.32574	1.32552			N/A
4/23/2019	GBPCHF.fx	3:30:00 PM	1.32685	1.3269			N/A
4/23/2019	GBPCZK	9:30:00 AM	29.649	29.666			N/A
4/23/2019	GBPCZK	11:30:00 AM	29.667	29.69			N/A
4/23/2019	GBPCZK	1:30:00 PM	29.736	29.754			N/A
4/23/2019	GBPCZK	3:30:00 PM	29.745	29.764			N/A
4/23/2019	GBPDKK	9:30:00 AM	8.613	8.623			N/A
4/23/2019	GBPDKK	11:30:00 AM	8.618	8.629			N/A
4/23/2019	GBPDKK	1:30:00 PM	8.629	8.64			N/A
4/23/2019	GBPDKK	3:30:00 PM	8.633	8.643			N/A
4/23/2019	GBPDKK.fx	9:30:00 AM	8.6114	8.6232			N/A
4/23/2019	GBPDKK.fx	11:30:00 AM	8.6165	8.629			N/A
4/23/2019	GBPDKK.fx	1:30:00 PM	8.6279	8.6399			N/A
4/23/2019	GBPDKK.fx	3:30:00 PM	8.631	8.6433			N/A
4/23/2019	GBPHKD	9:30:00 AM	10.1801	10.1843			N/A
4/23/2019	GBPHKD	11:30:00 AM	10.1904	10.1947			N/A
4/23/2019	GBPHKD	1:30:00 PM	10.201	10.2055			N/A
4/23/2019	GBPHKD	3:30:00 PM	10.2002	10.206			N/A
4/23/2019	GBPHUF	9:30:00 AM	369.29	369.72			N/A
4/23/2019	GBPHUF	11:30:00 AM	370.09	370.53			N/A
4/23/2019	GBPHUF	1:30:00 PM	370.9	371.34			N/A
4/23/2019	GBPHUF	3:30:00 PM	370.7	371.11			N/A
4/23/2019	GBPJPY	9:30:00 AM	145.269	145.285			N/A
4/23/2019	GBPJPY	11:30:00 AM	145.34	145.361			N/A
4/23/2019	GBPJPY	1:30:00 PM	145.529	145.565			N/A
4/23/2019	GBPJPY	3:30:00 PM	145.533	145.57			N/A
4/23/2019	GBPJPY.fx	9:30:00 AM	145.288	145.265			N/A
4/23/2019	GBPJPY.fx	11:30:00 AM	145.358	145.342			N/A
4/23/2019	GBPJPY.fx	1:30:00 PM	145.549	145.545			N/A
4/23/2019	GBPJPY.fx	3:30:00 PM	145.552	145.551			N/A
4/23/2019	GBPMXN	9:30:00 AM	24.4558	24.4699			N/A
4/23/2019	GBPMXN	11:30:00 AM	24.53	24.544			N/A
4/23/2019	GBPMXN	1:30:00 PM	24.5627	24.5763			N/A
4/23/2019	GBPMXN	3:30:00 PM	24.5469	24.5578			N/A

4/23/2019	GBPNOK	9:30:00 AM	11.0393	11.0457			N/A
4/23/2019	GBPNOK	11:30:00 AM	11.0705	11.0801			N/A
4/23/2019	GBPNOK	1:30:00 PM	11.0828	11.0934			N/A
4/23/2019	GBPNOK	3:30:00 PM	11.1011	11.1118			N/A
4/23/2019	GBPNOK.fx	9:30:00 AM	11.04426	11.04074			N/A
4/23/2019	GBPNOK.fx	11:30:00 AM	11.07545	11.07501			N/A
4/23/2019	GBPNOK.fx	1:30:00 PM	11.08777	11.08839			N/A
4/23/2019	GBPNOK.fx	3:30:00 PM	11.10634	11.1066			N/A
4/23/2019	GBPNZD	9:30:00 AM	1.94809	1.94867			N/A
4/23/2019	GBPNZD	11:30:00 AM	1.95081	1.95108			N/A
4/23/2019	GBPNZD	1:30:00 PM	1.95278	1.95342			N/A
4/23/2019	GBPNZD	3:30:00 PM	1.95404	1.95472			N/A
4/23/2019	GBPNZD.fx	9:30:00 AM	1.94841	1.94831			N/A
4/23/2019	GBPNZD.fx	11:30:00 AM	1.95113	1.95072			N/A
4/23/2019	GBPNZD.fx	1:30:00 PM	1.95311	1.95307			N/A
4/23/2019	GBPNZD.fx	3:30:00 PM	1.95439	1.95438			N/A
4/23/2019	GBPPLN	9:30:00 AM	4.9442	4.9455			N/A
4/23/2019	GBPPLN	11:30:00 AM	4.9525	4.9544			N/A
4/23/2019	GBPPLN	1:30:00 PM	4.9605	4.9615			N/A
4/23/2019	GBPPLN	3:30:00 PM	4.9598	4.961			N/A
4/23/2019	GBPPLN.fx	9:30:00 AM	4.94205	4.94758			N/A
4/23/2019	GBPPLN.fx	11:30:00 AM	4.9504	4.95654			N/A
4/23/2019	GBPPLN.fx	1:30:00 PM	4.95836	4.96353			N/A
4/23/2019	GBPPLN.fx	3:30:00 PM	4.95764	4.96304			N/A
4/23/2019	GBPSEK	9:30:00 AM	12.1022	12.1099			N/A
4/23/2019	GBPSEK	11:30:00 AM	12.1253	12.1333			N/A
4/23/2019	GBPSEK	1:30:00 PM	12.1424	12.1505			N/A
4/23/2019	GBPSEK	3:30:00 PM	12.1552	12.1628			N/A
4/23/2019	GBPSEK.fx	9:30:00 AM	12.09856	12.1135			N/A
4/23/2019	GBPSEK.fx	11:30:00 AM	12.12148	12.13692			N/A
4/23/2019	GBPSEK.fx	1:30:00 PM	12.13878	12.15407			N/A
4/23/2019	GBPSEK.fx	3:30:00 PM	12.15165	12.16628			N/A
4/23/2019	GBPSGD	9:30:00 AM	1.7609	1.7613			N/A
4/23/2019	GBPSGD	11:30:00 AM	1.7634	1.7641			N/A

4/23/2019	GBPSGD	1:30:00 PM	1.765	1.7657			N/A
4/23/2019	GBPSGD	3:30:00 PM	1.7651	1.7657			N/A
4/23/2019	GBPSGD.fx	9:30:00 AM	1.75906	1.76308			N/A
4/23/2019	GBPSGD.fx	11:30:00 AM	1.76161	1.76586			N/A
4/23/2019	GBPSGD.fx	1:30:00 PM	1.76316	1.76752			N/A
4/23/2019	GBPSGD.fx	3:30:00 PM	1.76324	1.76753			N/A
4/23/2019	GBPUSD	9:30:00 AM	1.29835	1.29817			N/A
4/23/2019	GBPUSD	11:30:00 AM	1.29956	1.29948			N/A
4/23/2019	GBPUSD	1:30:00 PM	1.30111	1.30105			N/A
4/23/2019	GBPUSD	3:30:00 PM	1.30096	1.30095			N/A
4/23/2019	GBPUSD.fx	9:30:00 AM	1.2984	1.29812			N/A
4/23/2019	GBPUSD.fx	11:30:00 AM	1.29961	1.29942			N/A
4/23/2019	GBPUSD.fx	1:30:00 PM	1.30116	1.30099			N/A
4/23/2019	GBPUSD.fx	3:30:00 PM	1.30102	1.3009			N/A
4/23/2019	GBPZAR	9:30:00 AM	18.3589	18.3876			N/A
4/23/2019	GBPZAR	11:30:00 AM	18.4638	18.4903			N/A
4/23/2019	GBPZAR	1:30:00 PM	18.4743	18.4939			N/A
4/23/2019	GBPZAR	3:30:00 PM	18.4741	18.4995			N/A
4/23/2019	GBPZAR.fx	9:30:00 AM	18.3657	18.3803			N/A
4/23/2019	GBPZAR.fx	11:30:00 AM	18.4712	18.4832			N/A
4/23/2019	GBPZAR.fx	1:30:00 PM	18.4818	18.4859			N/A
4/23/2019	GBPZAR.fx	3:30:00 PM	18.4812	18.4923			N/A
4/23/2019	GOLD	9:30:00 AM	1272.78	1272.87			N/A
4/23/2019	GOLD	11:30:00 AM	1273.66	1273.96			N/A
4/23/2019	GOLD	1:30:00 PM	1272.68	1273.04			N/A
4/23/2019	GOLD	3:30:00 PM	1273	1272.78			N/A
4/23/2019	HKDJPY	9:30:00 AM	14.26	14.27			N/A
4/23/2019	HKDJPY	11:30:00 AM	14.26	14.27			N/A
4/23/2019	HKDJPY	1:30:00 PM					N/A
4/23/2019	HKDJPY	3:30:00 PM					N/A
4/23/2019	HKDJPY.fx	9:30:00 AM	14.26	14.267			N/A
4/23/2019	HKDJPY.fx	11:30:00 AM	14.253	14.26			N/A
4/23/2019	HKDJPY.fx	1:30:00 PM	14.256	14.264			N/A
4/23/2019	HKDJPY.fx	3:30:00 PM	14.258	14.265			N/A

4/23/2019	HUFJPY	9:30:00 AM	0.3932	0.3935			N/A
4/23/2019	HUFJPY	11:30:00 AM	0.3927	0.393			N/A
4/23/2019	HUFJPY	1:30:00 PM	0.3923	0.3926			N/A
4/23/2019	HUFJPY	3:30:00 PM	0.3924	0.3927			N/A
4/23/2019	JP225.i	9:30:00 AM	22249.7	22267.2			N/A
4/23/2019	JP225.i	11:30:00 AM	22229.7	22244.7			N/A
4/23/2019	JP225.i	1:30:00 PM	22214.7	22234.7			N/A
4/23/2019	JP225.i	3:30:00 PM	22264.7	22279.7			N/A
4/23/2019	MXNJPY	9:30:00 AM	5.94	5.95			N/A
4/23/2019	MXNJPY	11:30:00 AM					N/A
4/23/2019	MXNJPY	1:30:00 PM					N/A
4/23/2019	MXNJPY	3:30:00 PM	5.92	5.94			N/A
4/23/2019	NASDAQ.i	9:30:00 AM					N/A
4/23/2019	NASDAQ.i	11:30:00 AM					N/A
4/23/2019	NASDAQ.i	1:30:00 PM					N/A
4/23/2019	NASDAQ.i	3:30:00 PM					N/A
4/23/2019	NOKJPY	9:30:00 AM	13.14	13.17			N/A
4/23/2019	NOKJPY	11:30:00 AM	13.12	13.14			N/A
4/23/2019	NOKJPY	1:30:00 PM	13.11	13.15			N/A
4/23/2019	NOKJPY	3:30:00 PM	13.09	13.12			N/A
4/23/2019	NOKJPY.fx	9:30:00 AM	13.154	13.159			N/A
4/23/2019	NOKJPY.fx	11:30:00 AM	13.122	13.127			N/A
4/23/2019	NOKJPY.fx	1:30:00 PM	13.123	13.13			N/A
4/23/2019	NOKJPY.fx	3:30:00 PM	13.102	13.108			N/A
4/23/2019	NZDCAD	9:30:00 AM	0.89034	0.89105			N/A
4/23/2019	NZDCAD	11:30:00 AM	0.88995	0.89056			N/A
4/23/2019	NZDCAD	1:30:00 PM	0.89046	0.89121			N/A
4/23/2019	NZDCAD	3:30:00 PM	0.89126	0.89192			N/A
4/23/2019	NZDCAD.fx	9:30:00 AM	0.89066	0.89072			N/A
4/23/2019	NZDCAD.fx	11:30:00 AM	0.89029	0.89023			N/A
4/23/2019	NZDCAD.fx	1:30:00 PM	0.89078	0.89087			N/A
4/23/2019	NZDCAD.fx	3:30:00 PM	0.89158	0.89159			N/A
4/23/2019	NZDCHF	9:30:00 AM	0.67696	0.6776			N/A
4/23/2019	NZDCHF	11:30:00 AM	0.67795	0.67854			N/A

4/23/2019	NZDCHF	1:30:00 PM	0.67839	0.67908			N/A
4/23/2019	NZDCHF	3:30:00 PM	0.67857	0.67926			N/A
4/23/2019	NZDCHF.fx	9:30:00 AM	0.67729	0.67725			N/A
4/23/2019	NZDCHF.fx	11:30:00 AM	0.67829	0.67818			N/A
4/23/2019	NZDCHF.fx	1:30:00 PM	0.67873	0.67872			N/A
4/23/2019	NZDCHF.fx	3:30:00 PM	0.67891	0.6789			N/A
4/23/2019	NZDCZK	9:30:00 AM	15.216	15.229			N/A
4/23/2019	NZDCZK	11:30:00 AM	15.207	15.218			N/A
4/23/2019	NZDCZK	1:30:00 PM	15.224	15.236			N/A
4/23/2019	NZDCZK	3:30:00 PM	15.219	15.23			N/A
4/23/2019	NZDDKK	9:30:00 AM					N/A
4/23/2019	NZDDKK	11:30:00 AM	4.418	4.422			N/A
4/23/2019	NZDDKK	1:30:00 PM	4.419	4.422			N/A
4/23/2019	NZDDKK	3:30:00 PM	4.417	4.421			N/A
4/23/2019	NZDHKD	9:30:00 AM	5.2243	5.2272			N/A
4/23/2019	NZDHKD	11:30:00 AM	5.2229	5.2258			N/A
4/23/2019	NZDHKD	1:30:00 PM	5.2224	5.2253			N/A
4/23/2019	NZDHKD	3:30:00 PM	5.2195	5.2223			N/A
4/23/2019	NZDHUF	9:30:00 AM	189.5	189.79			N/A
4/23/2019	NZDHUF	11:30:00 AM	189.66	189.96			N/A
4/23/2019	NZDHUF	1:30:00 PM	189.87	190.15			N/A
4/23/2019	NZDHUF	3:30:00 PM	189.64	189.92			N/A
4/23/2019	NZDJPY	9:30:00 AM	74.527	74.592			N/A
4/23/2019	NZDJPY	11:30:00 AM	74.472	74.533			N/A
4/23/2019	NZDJPY	1:30:00 PM	74.481	74.558			N/A
4/23/2019	NZDJPY	3:30:00 PM	74.441	74.51			N/A
4/23/2019	NZDJPY.fx	9:30:00 AM	74.558	74.56			N/A
4/23/2019	NZDJPY.fx	11:30:00 AM	74.503	74.5			N/A
4/23/2019	NZDJPY.fx	1:30:00 PM	74.513	74.526			N/A
4/23/2019	NZDJPY.fx	3:30:00 PM	74.474	74.478			N/A
4/23/2019	NZDMXN	9:30:00 AM	12.5526	12.5587			N/A
4/23/2019	NZDMXN	11:30:00 AM	12.5738	12.5792			N/A
4/23/2019	NZDMXN	1:30:00 PM	12.577	12.5814			N/A
4/23/2019	NZDMXN	3:30:00 PM	12.5596	12.564			N/A

4/23/2019	NZDNOK	9:30:00 AM	5.6643	5.6669			N/A
4/23/2019	NZDNOK	11:30:00 AM	5.6735	5.6768			N/A
4/23/2019	NZDNOK	1:30:00 PM	5.6736	5.677			N/A
4/23/2019	NZDNOK	3:30:00 PM	5.6792	5.6831			N/A
4/23/2019	NZDPLN	9:30:00 AM	2.5367	2.538			N/A
4/23/2019	NZDPLN	11:30:00 AM	2.5375	2.5388			N/A
4/23/2019	NZDPLN	1:30:00 PM	2.5387	2.5398			N/A
4/23/2019	NZDPLN	3:30:00 PM	2.5365	2.5379			N/A
4/23/2019	NZDSEK	9:30:00 AM	6.2077	6.2147			N/A
4/23/2019	NZDSEK	11:30:00 AM	6.2118	6.2184			N/A
4/23/2019	NZDSEK	1:30:00 PM	6.2142	6.2205			N/A
4/23/2019	NZDSEK	3:30:00 PM	6.2162	6.2221			N/A
4/23/2019	NZDSGD	9:30:00 AM	0.9036	0.9043			N/A
4/23/2019	NZDSGD	11:30:00 AM	0.9039	0.9044			N/A
4/23/2019	NZDSGD	1:30:00 PM	0.9036	0.9043			N/A
4/23/2019	NZDSGD	3:30:00 PM	0.9031	0.9037			N/A
4/23/2019	NZDSGD.fx	9:30:00 AM	0.90362	0.90421			N/A
4/23/2019	NZDSGD.fx	11:30:00 AM	0.90378	0.90431			N/A
4/23/2019	NZDSGD.fx	1:30:00 PM	0.90358	0.90411			N/A
4/23/2019	NZDSGD.fx	3:30:00 PM	0.90308	0.90361			N/A
4/23/2019	NZDUSD	9:30:00 AM	0.66628	0.66635			N/A
4/23/2019	NZDUSD	11:30:00 AM	0.66607	0.66614			N/A
4/23/2019	NZDUSD	1:30:00 PM	0.66606	0.66624			N/A
4/23/2019	NZDUSD	3:30:00 PM	0.66563	0.66573			N/A
4/23/2019	NZDUSD.fx	9:30:00 AM	0.66635	0.66637			N/A
4/23/2019	NZDUSD.fx	11:30:00 AM	0.66614	0.66615			N/A
4/23/2019	NZDUSD.fx	1:30:00 PM	0.66613	0.66626			N/A
4/23/2019	NZDUSD.fx	3:30:00 PM	0.66572	0.66575			N/A
4/23/2019	NZDZAR	9:30:00 AM	9.4164	9.4332			N/A
4/23/2019	NZDZAR	11:30:00 AM	9.4585	9.4744			N/A
4/23/2019	NZDZAR	1:30:00 PM	9.4543	9.4654			N/A
4/23/2019	NZDZAR	3:30:00 PM	9.4462	9.463			N/A
4/23/2019	SEKJPY	9:30:00 AM	12	12.01			N/A
4/23/2019	SEKJPY	11:30:00 AM	11.99	11.99			N/A

4/23/2019	SEKJPY	1:30:00 PM					N/A
4/23/2019	SEKJPY	3:30:00 PM					N/A
4/23/2019	SEKJPY.fx	9:30:00 AM	11.991	12.009			N/A
4/23/2019	SEKJPY.fx	11:30:00 AM	11.974	11.993			N/A
4/23/2019	SEKJPY.fx	1:30:00 PM	11.973	11.992			N/A
4/23/2019	SEKJPY.fx	3:30:00 PM	11.962	11.979			N/A
4/23/2019	SGDJPY	9:30:00 AM	82.48	82.49			N/A
4/23/2019	SGDJPY	11:30:00 AM	82.39	82.41			N/A
4/23/2019	SGDJPY	1:30:00 PM	82.45	82.45			N/A
4/23/2019	SGDJPY	3:30:00 PM	82.42	82.44			N/A
4/23/2019	SILVER	9:30:00 AM	14.77	15.14			N/A
4/23/2019	SILVER	11:30:00 AM	14.77	15.16			N/A
4/23/2019	SILVER	1:30:00 PM	14.78	15.15			N/A
4/23/2019	SILVER	3:30:00 PM	14.73	15.1			N/A
4/23/2019	SPX500.i	9:30:00 AM	2912.19	2912.99			N/A
4/23/2019	SPX500.i	11:30:00 AM	2909.69	2910.99			N/A
4/23/2019	SPX500.i	1:30:00 PM	2907.69	2908.89			N/A
4/23/2019	SPX500.i	3:30:00 PM	2913.94	2914.99			N/A
4/23/2019	UK100.i	9:30:00 AM	7499.95	7501.7			N/A
4/23/2019	UK100.i	11:30:00 AM	7495.95	7496.2			N/A
4/23/2019	UK100.i	1:30:00 PM	7489.95	7490.45			N/A
4/23/2019	UK100.i	3:30:00 PM	7502.37	7503.29			N/A
4/23/2019	USDCAD	9:30:00 AM	1.33676	1.33669			N/A
4/23/2019	USDCAD	11:30:00 AM	1.33651	1.33651			N/A
4/23/2019	USDCAD	1:30:00 PM	1.33721	1.3373			N/A
4/23/2019	USDCAD	3:30:00 PM	1.33939	1.33931			N/A
4/23/2019	USDCAD.fx	9:30:00 AM	1.33679	1.33666			N/A
4/23/2019	USDCAD.fx	11:30:00 AM	1.33653	1.33648			N/A
4/23/2019	USDCAD.fx	1:30:00 PM	1.33724	1.33726			N/A
4/23/2019	USDCAD.fx	3:30:00 PM	1.33942	1.33929			N/A
4/23/2019	USDCHF	9:30:00 AM	1.01642	1.01653			N/A
4/23/2019	USDCHF	11:30:00 AM	1.01827	1.01827			N/A
4/23/2019	USDCHF	1:30:00 PM	1.01891	1.01891			N/A
4/23/2019	USDCHF	3:30:00 PM	1.01987	1.01997			N/A

4/23/2019	USDCHF.fx	9:30:00 AM	1.01647	1.01646			N/A
4/23/2019	USDCHF.fx	11:30:00 AM	1.01832	1.01821			N/A
4/23/2019	USDCHF.fx	1:30:00 PM	1.01895	1.01886			N/A
4/23/2019	USDCHF.fx	3:30:00 PM	1.01992	1.0199			N/A
4/23/2019	USDCZK	9:30:00 AM	22.852	22.874			N/A
4/23/2019	USDCZK	11:30:00 AM	22.846	22.869			N/A
4/23/2019	USDCZK	1:30:00 PM	22.87	22.892			N/A
4/23/2019	USDCZK	3:30:00 PM	22.88	22.9			N/A
4/23/2019	USDCZK.fx	9:30:00 AM	22.8601	22.866			N/A
4/23/2019	USDCZK.fx	11:30:00 AM	22.8541	22.8603			N/A
4/23/2019	USDCZK.fx	1:30:00 PM	22.878	22.883			N/A
4/23/2019	USDCZK.fx	3:30:00 PM	22.8877	22.8911			N/A
4/23/2019	USDDKK	9:30:00 AM	6.6364	6.6402			N/A
4/23/2019	USDDKK	11:30:00 AM	6.6339	6.6378			N/A
4/23/2019	USDDKK	1:30:00 PM	6.6348	6.6388			N/A
4/23/2019	USDDKK	3:30:00 PM	6.6379	6.6415			N/A
4/23/2019	USDDKK.fx	9:30:00 AM	6.637	6.63815			N/A
4/23/2019	USDDKK.fx	11:30:00 AM	6.63457	6.6358			N/A
4/23/2019	USDDKK.fx	1:30:00 PM	6.63536	6.63654			N/A
4/23/2019	USDDKK.fx	3:30:00 PM	6.63841	6.63949			N/A
4/23/2019	USDHKD	9:30:00 AM	7.8444	7.8449			N/A
4/23/2019	USDHKD	11:30:00 AM	7.8445	7.845			N/A
4/23/2019	USDHKD	1:30:00 PM	7.8438	7.8443			N/A
4/23/2019	USDHKD	3:30:00 PM	7.8433	7.8437			N/A
4/23/2019	USDHKD.fx	9:30:00 AM	7.84444	7.84488			N/A
4/23/2019	USDHKD.fx	11:30:00 AM	7.84455	7.84509			N/A
4/23/2019	USDHKD.fx	1:30:00 PM	7.84375	7.84435			N/A
4/23/2019	USDHKD.fx	3:30:00 PM	7.84395	7.8445			N/A
4/23/2019	USDHUF	9:30:00 AM	284.51	284.97			N/A
4/23/2019	USDHUF	11:30:00 AM	284.86	285.32			N/A
4/23/2019	USDHUF	1:30:00 PM	285.13	285.59			N/A
4/23/2019	USDHUF	3:30:00 PM	285.01	285.44			N/A
4/23/2019	USDHUF.fx	9:30:00 AM	284.704	284.775			N/A
4/23/2019	USDHUF.fx	11:30:00 AM	285.065	285.123			N/A

4/23/2019	USDHUF.fx	1:30:00 PM	285.335	285.39			N/A
4/23/2019	USDHUF.fx	3:30:00 PM	285.215	285.231			N/A
4/23/2019	USDINR	9:30:00 AM	64.75	74.74			N/A
4/23/2019	USDINR	11:30:00 AM	64.7	74.69			N/A
4/23/2019	USDINR	1:30:00 PM					N/A
4/23/2019	USDINR	3:30:00 PM					N/A
4/23/2019	USDJPY	9:30:00 AM	111.893	111.907			N/A
4/23/2019	USDJPY	11:30:00 AM	111.844	111.855			N/A
4/23/2019	USDJPY	1:30:00 PM	111.86	111.875			N/A
4/23/2019	USDJPY	3:30:00 PM	111.873	111.884			N/A
4/23/2019	USDJPY.fx	9:30:00 AM	111.898	111.9			N/A
4/23/2019	USDJPY.fx	11:30:00 AM	111.85	111.848			N/A
4/23/2019	USDJPY.fx	1:30:00 PM	111.866	111.867			N/A
4/23/2019	USDJPY.fx	3:30:00 PM	111.879	111.877			N/A
4/23/2019	USDMXN	9:30:00 AM	18.847	18.852			N/A
4/23/2019	USDMXN	11:30:00 AM	18.882	18.891			N/A
4/23/2019	USDMXN	1:30:00 PM	18.886	18.892			N/A
4/23/2019	USDMXN	3:30:00 PM	18.875	18.878			N/A
4/23/2019	USDMXN.f	9:30:00 AM	18.8503	18.8488			N/A
4/23/2019	USDMXN.f	11:30:00 AM	18.8854	18.8871			N/A
4/23/2019	USDMXN.f	1:30:00 PM	18.8908	18.8885			N/A
4/23/2019	USDMXN.f	3:30:00 PM	18.8786	18.8743			N/A
4/23/2019	USDNOK	9:30:00 AM	8.5025	8.5091			N/A
4/23/2019	USDNOK	11:30:00 AM	8.5185	8.5264			N/A
4/23/2019	USDNOK	1:30:00 PM	8.5181	8.5267			N/A
4/23/2019	USDNOK	3:30:00 PM	8.5331	8.5413			N/A
4/23/2019	USDNOK.fx	9:30:00 AM	8.50655	8.50433			N/A
4/23/2019	USDNOK.fx	11:30:00 AM	8.52242	8.52194			N/A
4/23/2019	USDNOK.fx	1:30:00 PM	8.52209	8.52229			N/A
4/23/2019	USDNOK.fx	3:30:00 PM	8.53715	8.53656			N/A
4/23/2019	USDPLN	9:30:00 AM	3.8081	3.8097			N/A
4/23/2019	USDPLN	11:30:00 AM	3.811	3.8124			N/A
4/23/2019	USDPLN	1:30:00 PM	3.8125	3.8136			N/A
4/23/2019	USDPLN	3:30:00 PM	3.8122	3.8132			N/A

4/23/2019	USDPLN.fx	9:30:00 AM	3.80738	3.81031			N/A
4/23/2019	USDPLN.fx	11:30:00 AM	3.81018	3.81321			N/A
4/23/2019	USDPLN.fx	1:30:00 PM	3.81163	3.81441			N/A
4/23/2019	USDPLN.fx	3:30:00 PM	3.81136	3.81383			N/A
4/23/2019	USDRUB	9:30:00 AM					N/A
4/23/2019	USDRUB	11:30:00 AM	63.578	63.976			N/A
4/23/2019	USDRUB	1:30:00 PM	63.525	63.905			N/A
4/23/2019	USDRUB	3:30:00 PM	63.576	63.961			N/A
4/23/2019	USDSEK	9:30:00 AM	9.3225	9.3264			N/A
4/23/2019	USDSEK	11:30:00 AM	9.3306	9.3347			N/A
4/23/2019	USDSEK	1:30:00 PM	9.3335	9.3374			N/A
4/23/2019	USDSEK	3:30:00 PM	9.3439	9.3462			N/A
4/23/2019	USDSEK.fx	9:30:00 AM	9.32494	9.32465			N/A
4/23/2019	USDSEK.fx	11:30:00 AM	9.33315	9.33301			N/A
4/23/2019	USDSEK.fx	1:30:00 PM	9.33599	9.33565			N/A
4/23/2019	USDSEK.fx	3:30:00 PM	9.34659	9.34447			N/A
4/23/2019	USDSGD	9:30:00 AM	1.3564	1.3567			N/A
4/23/2019	USDSGD	11:30:00 AM	1.357	1.3573			N/A
4/23/2019	USDSGD	1:30:00 PM	1.3567	1.3569			N/A
4/23/2019	USDSGD	3:30:00 PM	1.3568	1.3571			N/A
4/23/2019	USDSGD.fx	9:30:00 AM	1.3563	1.3567			N/A
4/23/2019	USDSGD.fx	11:30:00 AM	1.35697	1.35744			N/A
4/23/2019	USDSGD.fx	1:30:00 PM	1.35661	1.35691			N/A
4/23/2019	USDSGD.fx	3:30:00 PM	1.35674	1.35722			N/A
4/23/2019	USDZAR	9:30:00 AM	14.1437	14.1595			N/A
4/23/2019	USDZAR	11:30:00 AM	14.2101	14.2276			N/A
4/23/2019	USDZAR	1:30:00 PM	14.2029	14.212			N/A
4/23/2019	USDZAR	3:30:00 PM	14.2024	14.2182			N/A
4/23/2019	USDZAR.fx	9:30:00 AM	14.14948	14.1535			N/A
4/23/2019	USDZAR.fx	11:30:00 AM	14.21607	14.22152			N/A
4/23/2019	USDZAR.fx	1:30:00 PM	14.20888	14.20612			N/A
4/23/2019	USDZAR.fx	3:30:00 PM	14.20822	14.21185			N/A
4/23/2019	XAUUSD	9:30:00 AM	1272.79	1272.88			N/A
4/23/2019	XAUUSD	11:30:00 AM	1273.67	1273.96			N/A

4/23/2019	XAUUSD	1:30:00 PM	1272.68	1273.04			N/A
4/23/2019	XAUUSD	3:30:00 PM	1273.02	1272.79			N/A
4/23/2019	ZARJPY	9:30:00 AM	7.89	7.91			N/A
4/23/2019	ZARJPY	11:30:00 AM	7.85	7.87			N/A
4/23/2019	ZARJPY	1:30:00 PM	7.86	7.88			N/A
4/23/2019	ZARJPY	3:30:00 PM	7.85	7.87			N/A
4/23/2019	ZARJPY.fx	9:30:00 AM	7.905	7.908			N/A
4/23/2019	ZARJPY.fx	11:30:00 AM	7.863	7.869			N/A
4/23/2019	ZARJPY.fx	1:30:00 PM	7.873	7.873			N/A
4/23/2019	ZARJPY.fx	3:30:00 PM	7.871	7.875			N/A
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4/24/2019	#NG.f	11:30:00 AM	2.459	2.478			N/A
4/24/2019	#NG.f	1:30:00 PM	2.464	2.484			N/A
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4/24/2019	#ZNGA	1:30:00 PM					N/A
4/24/2019	#ZNGA	3:30:00 PM					N/A
4/24/2019	AUDCAD	9:30:00 AM	0.94598	0.94664			N/A
4/24/2019	AUDCAD	11:30:00 AM	0.94734	0.94802			N/A
4/24/2019	AUDCAD	1:30:00 PM	0.94615	0.94672			N/A
4/24/2019	AUDCAD	3:30:00 PM	0.946	0.94659			N/A
4/24/2019	AUDCAD.fx	9:30:00 AM	0.94632	0.9463			N/A
4/24/2019	AUDCAD.fx	11:30:00 AM	0.94768	0.94767			N/A
4/24/2019	AUDCAD.fx	1:30:00 PM	0.94647	0.94637			N/A
4/24/2019	AUDCAD.fx	3:30:00 PM	0.94635	0.94625			N/A
4/24/2019	AUDCHF	9:30:00 AM	0.71702	0.71772			N/A
4/24/2019	AUDCHF	11:30:00 AM	0.71704	0.71771			N/A
4/24/2019	AUDCHF	1:30:00 PM	0.7162	0.71688			N/A
4/24/2019	AUDCHF	3:30:00 PM	0.71624	0.71682			N/A
4/24/2019	AUDCHF.fx	9:30:00 AM	0.71737	0.71737			N/A
4/24/2019	AUDCHF.fx	11:30:00 AM	0.71738	0.71737			N/A
4/24/2019	AUDCHF.fx	1:30:00 PM	0.71654	0.71654			N/A
4/24/2019	AUDCHF.fx	3:30:00 PM	0.71659	0.71647			N/A
4/24/2019	AUDCZK	9:30:00 AM	16.134	16.15			N/A
4/24/2019	AUDCZK	11:30:00 AM	16.148	16.164			N/A
4/24/2019	AUDCZK	1:30:00 PM	16.131	16.147			N/A
4/24/2019	AUDCZK	3:30:00 PM	16.138	16.155			N/A
4/24/2019	AUDDKK	9:30:00 AM	4.6841	4.6882			N/A
4/24/2019	AUDDKK	11:30:00 AM	4.6856	4.6899			N/A

4/24/2019	AUDDKK	1:30:00 PM	4.6832	4.6877			N/A
4/24/2019	AUDDKK	3:30:00 PM	4.6855	4.6901			N/A
4/24/2019	AUDHKD	9:30:00 AM	5.5116	5.5155			N/A
4/24/2019	AUDHKD	11:30:00 AM	5.5207	5.5246			N/A
4/24/2019	AUDHKD	1:30:00 PM	5.5149	5.5181			N/A
4/24/2019	AUDHKD	3:30:00 PM	5.5154	5.5192			N/A
4/24/2019	AUDHUF	9:30:00 AM	201.33	201.56			N/A
4/24/2019	AUDHUF	11:30:00 AM	201.54	201.77			N/A
4/24/2019	AUDHUF	1:30:00 PM	201.23	201.46			N/A
4/24/2019	AUDHUF	3:30:00 PM	201.36	201.6			N/A
4/24/2019	AUDJPY	9:30:00 AM	78.526	78.588			N/A
4/24/2019	AUDJPY	11:30:00 AM	78.669	78.731			N/A
4/24/2019	AUDJPY	1:30:00 PM	78.621	78.688			N/A
4/24/2019	AUDJPY	3:30:00 PM	78.604	78.661			N/A
4/24/2019	AUDJPY.fx	9:30:00 AM	78.56	78.553			N/A
4/24/2019	AUDJPY.fx	11:30:00 AM	78.703	78.696			N/A
4/24/2019	AUDJPY.fx	1:30:00 PM	78.654	78.653			N/A
4/24/2019	AUDJPY.fx	3:30:00 PM	78.639	78.626			N/A
4/24/2019	AUDMXN	9:30:00 AM	13.3465	13.3531			N/A
4/24/2019	AUDMXN	11:30:00 AM	13.3498	13.357			N/A
4/24/2019	AUDMXN	1:30:00 PM	13.3281	13.3364			N/A
4/24/2019	AUDMXN	3:30:00 PM	13.3342	13.3414			N/A
4/24/2019	AUDNOK	9:30:00 AM	6.0317	6.0356			N/A
4/24/2019	AUDNOK	11:30:00 AM	6.0359	6.0405			N/A
4/24/2019	AUDNOK	1:30:00 PM	6.0324	6.037			N/A
4/24/2019	AUDNOK	3:30:00 PM	6.0319	6.0352			N/A
4/24/2019	AUDNOK.f	9:30:00 AM	6.0333	6.0339			N/A
4/24/2019	AUDNOK.f	11:30:00 AM	6.0375	6.0386			N/A
4/24/2019	AUDNOK.f	1:30:00 PM	6.034	6.0353			N/A
4/24/2019	AUDNOK.f	3:30:00 PM	6.0337	6.0335			N/A
4/24/2019	AUDNZD	9:30:00 AM	1.06205	1.06294			N/A
4/24/2019	AUDNZD	11:30:00 AM	1.0631	1.06385			N/A
4/24/2019	AUDNZD	1:30:00 PM	1.06252	1.06332			N/A
4/24/2019	AUDNZD	3:30:00 PM	1.06282	1.06353			N/A

4/24/2019	AUDNZD.fx	9:30:00 AM	1.06249	1.06248			N/A
4/24/2019	AUDNZD.fx	11:30:00 AM	1.06355	1.06341			N/A
4/24/2019	AUDNZD.fx	1:30:00 PM	1.06298	1.06286			N/A
4/24/2019	AUDNZD.fx	3:30:00 PM	1.06327	1.06307			N/A
4/24/2019	AUDPLN	9:30:00 AM	2.6897	2.6926			N/A
4/24/2019	AUDPLN	11:30:00 AM	2.6917	2.6948			N/A
4/24/2019	AUDPLN	1:30:00 PM	2.6909	2.6941			N/A
4/24/2019	AUDPLN	3:30:00 PM	2.6921	2.6953			N/A
4/24/2019	AUDSEK	9:30:00 AM	6.5951	6.5973			N/A
4/24/2019	AUDSEK	11:30:00 AM	6.5938	6.5961			N/A
4/24/2019	AUDSEK	1:30:00 PM	6.5886	6.5906			N/A
4/24/2019	AUDSEK	3:30:00 PM	6.5942	6.5958			N/A
4/24/2019	AUDSEK.fx	9:30:00 AM	6.5904	6.6015			N/A
4/24/2019	AUDSEK.fx	11:30:00 AM	6.5891	6.6006			N/A
4/24/2019	AUDSEK.fx	1:30:00 PM	6.584	6.5949			N/A
4/24/2019	AUDSEK.fx	3:30:00 PM	6.59	6.6003			N/A
4/24/2019	AUDSGD	9:30:00 AM	0.9562	0.9564			N/A
4/24/2019	AUDSGD	11:30:00 AM	0.9569	0.9571			N/A
4/24/2019	AUDSGD	1:30:00 PM	0.9564	0.9565			N/A
4/24/2019	AUDSGD	3:30:00 PM	0.9565	0.9567			N/A
4/24/2019	AUDSGD.fx	9:30:00 AM	0.95626	0.95638			N/A
4/24/2019	AUDSGD.fx	11:30:00 AM	0.95701	0.95702			N/A
4/24/2019	AUDSGD.fx	1:30:00 PM	0.95642	0.95643			N/A
4/24/2019	AUDSGD.fx	3:30:00 PM	0.95661	0.95656			N/A
4/24/2019	AUDUSD	9:30:00 AM	0.70333	0.70348			N/A
4/24/2019	AUDUSD	11:30:00 AM	0.70431	0.70436			N/A
4/24/2019	AUDUSD	1:30:00 PM	0.70369	0.70371			N/A
4/24/2019	AUDUSD	3:30:00 PM	0.70368	0.70368			N/A
4/24/2019	AUDUSD.fx	9:30:00 AM	0.70338	0.70342			N/A
4/24/2019	AUDUSD.fx	11:30:00 AM	0.70436	0.7043			N/A
4/24/2019	AUDUSD.fx	1:30:00 PM	0.70374	0.70365			N/A
4/24/2019	AUDUSD.fx	3:30:00 PM	0.70375	0.70363			N/A
4/24/2019	AUDZAR	9:30:00 AM	10.0981	10.1139			N/A
4/24/2019	AUDZAR	11:30:00 AM	10.0937	10.1045			N/A

4/24/2019	AUDZAR	1:30:00 PM	10.0844	10.0984			N/A
4/24/2019	AUDZAR	3:30:00 PM	10.1046	10.1158			N/A
4/24/2019	AUS200.i	9:30:00 AM	6389.8	6394.3			N/A
4/24/2019	AUS200.i	11:30:00 AM	6381.2	6385.2			N/A
4/24/2019	AUS200.i	1:30:00 PM	6402.7	6405.7			N/A
4/24/2019	AUS200.i	3:30:00 PM	6394.2	6397.7			N/A
4/24/2019	BCHUSD	9:30:00 AM	293.27	295.17			N/A
4/24/2019	BCHUSD	11:30:00 AM	283.66	284.65			N/A
4/24/2019	BCHUSD	1:30:00 PM	279.02	280.74			N/A
4/24/2019	BCHUSD	3:30:00 PM	282.94	284.28			N/A
4/24/2019	CADCHF	9:30:00 AM	0.75793	0.7586			N/A
4/24/2019	CADCHF	11:30:00 AM	0.75678	0.7575			N/A
4/24/2019	CADCHF	1:30:00 PM	0.75696	0.75759			N/A
4/24/2019	CADCHF	3:30:00 PM	0.75697	0.75766			N/A
4/24/2019	CADCHF.fx	9:30:00 AM	0.75827	0.75824			N/A
4/24/2019	CADCHF.fx	11:30:00 AM	0.75711	0.75715			N/A
4/24/2019	CADCHF.fx	1:30:00 PM	0.7573	0.75722			N/A
4/24/2019	CADCHF.fx	3:30:00 PM	0.75731	0.7573			N/A
4/24/2019	CADCZK	9:30:00 AM	17.052	17.068			N/A
4/24/2019	CADCZK	11:30:00 AM	17.041	17.058			N/A
4/24/2019	CADCZK	1:30:00 PM	17.047	17.061			N/A
4/24/2019	CADCZK	3:30:00 PM	17.054	17.071			N/A
4/24/2019	CADDDKK	9:30:00 AM					N/A
4/24/2019	CADDDKK	11:30:00 AM					N/A
4/24/2019	CADDDKK	1:30:00 PM	4.95	4.953			N/A
4/24/2019	CADDDKK	3:30:00 PM					N/A
4/24/2019	CADHKD	9:30:00 AM	5.8248	5.8287			N/A
4/24/2019	CADHKD	11:30:00 AM	5.8258	5.8297			N/A
4/24/2019	CADHKD	1:30:00 PM	5.8278	5.8313			N/A
4/24/2019	CADHKD	3:30:00 PM	5.829	5.833			N/A
4/24/2019	CADHUF	9:30:00 AM	212.81	212.98			N/A
4/24/2019	CADHUF	11:30:00 AM	212.72	212.88			N/A
4/24/2019	CADHUF	1:30:00 PM	212.69	212.83			N/A
4/24/2019	CADHUF	3:30:00 PM	212.84	213			N/A

4/24/2019	CADJPY	9:30:00 AM	83.045	83.099			N/A
4/24/2019	CADJPY	11:30:00 AM	83.066	83.138			N/A
4/24/2019	CADJPY	1:30:00 PM	83.13	83.197			N/A
4/24/2019	CADJPY	3:30:00 PM	83.111	83.177			N/A
4/24/2019	CADJPY.fx	9:30:00 AM	83.078	83.065			N/A
4/24/2019	CADJPY.fx	11:30:00 AM	83.1	83.103			N/A
4/24/2019	CADJPY.fx	1:30:00 PM	83.165	83.162			N/A
4/24/2019	CADJPY.fx	3:30:00 PM	83.145	83.143			N/A
4/24/2019	CADMXN	9:30:00 AM	14.1035	14.1136			N/A
4/24/2019	CADMXN	11:30:00 AM	14.0866	14.0966			N/A
4/24/2019	CADMXN	1:30:00 PM	14.0825	14.0938			N/A
4/24/2019	CADMXN	3:30:00 PM	14.0922	14.1007			N/A
4/24/2019	CADNOK	9:30:00 AM	6.3727	6.3776			N/A
4/24/2019	CADNOK	11:30:00 AM	6.3686	6.3734			N/A
4/24/2019	CADNOK	1:30:00 PM	6.3738	6.3781			N/A
4/24/2019	CADNOK	3:30:00 PM	6.3725	6.3773			N/A
4/24/2019	CADPLN	9:30:00 AM	2.8425	2.8444			N/A
4/24/2019	CADPLN	11:30:00 AM	2.841	2.8429			N/A
4/24/2019	CADPLN	1:30:00 PM	2.8438	2.8456			N/A
4/24/2019	CADPLN	3:30:00 PM	2.8455	2.8474			N/A
4/24/2019	CADSEK	9:30:00 AM	6.9689	6.9718			N/A
4/24/2019	CADSEK	11:30:00 AM	6.9583	6.9608			N/A
4/24/2019	CADSEK	1:30:00 PM	6.9608	6.9632			N/A
4/24/2019	CADSEK	3:30:00 PM	6.9676	6.9704			N/A
4/24/2019	CADSGD	9:30:00 AM	1.0098	1.0101			N/A
4/24/2019	CADSGD	11:30:00 AM	1.0093	1.0096			N/A
4/24/2019	CADSGD	1:30:00 PM	1.0098	1.0101			N/A
4/24/2019	CADSGD	3:30:00 PM	1.01	1.0103			N/A
4/24/2019	CADZAR	9:30:00 AM	10.6717	10.6886			N/A
4/24/2019	CADZAR	11:30:00 AM	10.6507	10.6637			N/A
4/24/2019	CADZAR	1:30:00 PM	10.6558	10.6716			N/A
4/24/2019	CADZAR	3:30:00 PM	10.6779	10.6925			N/A
4/24/2019	CHFCZK	9:30:00 AM	22.493	22.506			N/A
4/24/2019	CHFCZK	11:30:00 AM	22.513	22.528			N/A

4/24/2019	CHFCZK	1:30:00 PM	22.515	22.53			N/A
4/24/2019	CHFCZK	3:30:00 PM	22.522	22.54			N/A
4/24/2019	CHFDKK	9:30:00 AM	6.529	6.532			N/A
4/24/2019	CHFDKK	11:30:00 AM	6.533	6.536			N/A
4/24/2019	CHFDKK	1:30:00 PM	6.537	6.54			N/A
4/24/2019	CHFDKK	3:30:00 PM	6.54	6.543			N/A
4/24/2019	CHFDKK.fx	9:30:00 AM	6.5275	6.5334			N/A
4/24/2019	CHFDKK.fx	11:30:00 AM	6.5313	6.537			N/A
4/24/2019	CHFDKK.fx	1:30:00 PM	6.5352	6.5413			N/A
4/24/2019	CHFDKK.fx	3:30:00 PM	6.5388	6.5446			N/A
4/24/2019	CHFHKD	9:30:00 AM	7.6834	7.6866			N/A
4/24/2019	CHFHKD	11:30:00 AM	7.6962	7.6998			N/A
4/24/2019	CHFHKD	1:30:00 PM	7.6962	7.6999			N/A
4/24/2019	CHFHKD	3:30:00 PM	7.6976	7.7015			N/A
4/24/2019	CHFHUF	9:30:00 AM	280.58	280.97			N/A
4/24/2019	CHFHUF	11:30:00 AM	280.9	281.27			N/A
4/24/2019	CHFHUF	1:30:00 PM	280.78	281.16			N/A
4/24/2019	CHFHUF	3:30:00 PM	280.98	281.36			N/A
4/24/2019	CHFJPY	9:30:00 AM	109.538	109.586			N/A
4/24/2019	CHFJPY	11:30:00 AM	109.726	109.795			N/A
4/24/2019	CHFJPY	1:30:00 PM	109.786	109.854			N/A
4/24/2019	CHFJPY	3:30:00 PM	109.751	109.826			N/A
4/24/2019	CHFJPY.fx	9:30:00 AM	109.571	109.552			N/A
4/24/2019	CHFJPY.fx	11:30:00 AM	109.759	109.76			N/A
4/24/2019	CHFJPY.fx	1:30:00 PM	109.82	109.82			N/A
4/24/2019	CHFJPY.fx	3:30:00 PM	109.784	109.79			N/A
4/24/2019	CHFMXN	9:30:00 AM	18.6015	18.614			N/A
4/24/2019	CHFMXN	11:30:00 AM	18.6057	18.6201			N/A
4/24/2019	CHFMXN	1:30:00 PM	18.5975	18.6122			N/A
4/24/2019	CHFMXN	3:30:00 PM	18.6078	18.6188			N/A
4/24/2019	CHFNOK	9:30:00 AM	8.406	8.4128			N/A
4/24/2019	CHFNOK	11:30:00 AM	8.412	8.4196			N/A
4/24/2019	CHFNOK	1:30:00 PM	8.4173	8.4243			N/A
4/24/2019	CHFNOK	3:30:00 PM	8.4157	8.4226			N/A

4/24/2019	CHFNOK.fx	9:30:00 AM	8.40942	8.40921			N/A
4/24/2019	CHFNOK.fx	11:30:00 AM	8.41558	8.41601			N/A
4/24/2019	CHFNOK.fx	1:30:00 PM	8.42095	8.42075			N/A
4/24/2019	CHFNOK.fx	3:30:00 PM	8.41931	8.41892			N/A
4/24/2019	CHFPLN	9:30:00 AM	3.7492	3.7521			N/A
4/24/2019	CHFPLN	11:30:00 AM	3.7521	3.7548			N/A
4/24/2019	CHFPLN	1:30:00 PM	3.7553	3.7582			N/A
4/24/2019	CHFPLN	3:30:00 PM	3.7572	3.7598			N/A
4/24/2019	CHFPLN.fx	9:30:00 AM	3.74696	3.75425			N/A
4/24/2019	CHFPLN.fx	11:30:00 AM	3.74974	3.75711			N/A
4/24/2019	CHFPLN.fx	1:30:00 PM	3.75296	3.76053			N/A
4/24/2019	CHFPLN.fx	3:30:00 PM	3.75484	3.76213			N/A
4/24/2019	CHFSEK	9:30:00 AM	9.1912	9.1951			N/A
4/24/2019	CHFSEK	11:30:00 AM	9.1906	9.1939			N/A
4/24/2019	CHFSEK	1:30:00 PM	9.1925	9.1954			N/A
4/24/2019	CHFSEK	3:30:00 PM	9.2009	9.2039			N/A
4/24/2019	CHFSGD	9:30:00 AM	1.3326	1.333			N/A
4/24/2019	CHFSGD	11:30:00 AM	1.3336	1.334			N/A
4/24/2019	CHFSGD	1:30:00 PM	1.3342	1.3346			N/A
4/24/2019	CHFSGD	3:30:00 PM	1.3345	1.335			N/A
4/24/2019	CHFSGD.fx	9:30:00 AM	1.33274	1.33277			N/A
4/24/2019	CHFSGD.fx	11:30:00 AM	1.33373	1.33379			N/A
4/24/2019	CHFSGD.fx	1:30:00 PM	1.33443	1.33445			N/A
4/24/2019	CHFSGD.fx	3:30:00 PM	1.33463	1.33477			N/A
4/24/2019	CHFZAR	9:30:00 AM	14.0791	14.0938			N/A
4/24/2019	CHFZAR	11:30:00 AM	14.073	14.0813			N/A
4/24/2019	CHFZAR	1:30:00 PM	14.0748	14.0891			N/A
4/24/2019	CHFZAR	3:30:00 PM	14.1037	14.1153			N/A
4/24/2019	CZKJPY	9:30:00 AM	4.869	4.873			N/A
4/24/2019	CZKJPY	11:30:00 AM					N/A
4/24/2019	CZKJPY	1:30:00 PM	4.876	4.879			N/A
4/24/2019	CZKJPY	3:30:00 PM					N/A
4/24/2019	DAX30.i	9:30:00 AM	12235.57	12235.57			N/A
4/24/2019	DAX30.i	11:30:00 AM	12259.82	12258.57			N/A

4/24/2019	DAX30.i	1:30:00 PM	12367.32	12364.57			N/A
4/24/2019	DAX30.i	3:30:00 PM	12329.82	12327.32			N/A
4/24/2019	DJ30.i	9:30:00 AM					N/A
4/24/2019	DJ30.i	11:30:00 AM					N/A
4/24/2019	DJ30.i	1:30:00 PM					N/A
4/24/2019	DJ30.i	3:30:00 PM					N/A
4/24/2019	DKKJPY	9:30:00 AM					N/A
4/24/2019	DKKJPY	11:30:00 AM					N/A
4/24/2019	DKKJPY	1:30:00 PM					N/A
4/24/2019	DKKJPY	3:30:00 PM					N/A
4/24/2019	EURAUD	9:30:00 AM	1.59289	1.59313			N/A
4/24/2019	EURAUD	11:30:00 AM	1.59197	1.59231			N/A
4/24/2019	EURAUD	1:30:00 PM	1.59286	1.59329			N/A
4/24/2019	EURAUD	3:30:00 PM	1.59218	1.59245			N/A
4/24/2019	EURAUD.fx	9:30:00 AM	1.59308	1.59291			N/A
4/24/2019	EURAUD.fx	11:30:00 AM	1.59218	1.59209			N/A
4/24/2019	EURAUD.fx	1:30:00 PM	1.59306	1.59308			N/A
4/24/2019	EURAUD.fx	3:30:00 PM	1.59238	1.5922			N/A
4/24/2019	EURCAD	9:30:00 AM	1.50736	1.50806			N/A
4/24/2019	EURCAD	11:30:00 AM	1.50877	1.50954			N/A
4/24/2019	EURCAD	1:30:00 PM	1.50764	1.50831			N/A
4/24/2019	EURCAD	3:30:00 PM	1.50672	1.50748			N/A
4/24/2019	EURCAD.fx	9:30:00 AM	1.50777	1.50764			N/A
4/24/2019	EURCAD.fx	11:30:00 AM	1.50918	1.50912			N/A
4/24/2019	EURCAD.fx	1:30:00 PM	1.50806	1.5079			N/A
4/24/2019	EURCAD.fx	3:30:00 PM	1.50715	1.50705			N/A
4/24/2019	EURCHF	9:30:00 AM	1.14317	1.14326			N/A
4/24/2019	EURCHF	11:30:00 AM	1.14258	1.14264			N/A
4/24/2019	EURCHF	1:30:00 PM	1.14189	1.142			N/A
4/24/2019	EURCHF	3:30:00 PM	1.14133	1.1414			N/A
4/24/2019	EURCHF.fx	9:30:00 AM	1.14324	1.14321			N/A
4/24/2019	EURCHF.fx	11:30:00 AM	1.14263	1.14258			N/A
4/24/2019	EURCHF.fx	1:30:00 PM	1.14195	1.14194			N/A
4/24/2019	EURCHF.fx	3:30:00 PM	1.1414	1.14133			N/A

4/24/2019	EURCZK	9:30:00 AM	25.7	25.738			N/A
4/24/2019	EURCZK	11:30:00 AM					N/A
4/24/2019	EURCZK	1:30:00 PM	25.697	25.735			N/A
4/24/2019	EURCZK	3:30:00 PM					N/A
4/24/2019	EURDKK	9:30:00 AM	7.4651	7.4663			N/A
4/24/2019	EURDKK	11:30:00 AM	7.465	7.4661			N/A
4/24/2019	EURDKK	1:30:00 PM	7.4659	7.4671			N/A
4/24/2019	EURDKK	3:30:00 PM	7.4652	7.4663			N/A
4/24/2019	EURGBP	9:30:00 AM	0.86695	0.86696			N/A
4/24/2019	EURGBP	11:30:00 AM	0.86764	0.86773			N/A
4/24/2019	EURGBP	1:30:00 PM	0.86608	0.86615			N/A
4/24/2019	EURGBP	3:30:00 PM	0.86535	0.86539			N/A
4/24/2019	EURGBP.fx	9:30:00 AM	0.86699	0.8669			N/A
4/24/2019	EURGBP.fx	11:30:00 AM	0.86767	0.86768			N/A
4/24/2019	EURGBP.fx	1:30:00 PM	0.86612	0.86609			N/A
4/24/2019	EURGBP.fx	3:30:00 PM	0.86538	0.86532			N/A
4/24/2019	EURHKD	9:30:00 AM	8.7848	8.7887			N/A
4/24/2019	EURHKD	11:30:00 AM	8.7935	8.7981			N/A
4/24/2019	EURHKD	1:30:00 PM	8.7899	8.7943			N/A
4/24/2019	EURHKD	3:30:00 PM	8.7863	8.791			N/A
4/24/2019	EURHKD.fx	9:30:00 AM	8.78757	8.7858			N/A
4/24/2019	EURHKD.fx	11:30:00 AM	8.79629	8.79519			N/A
4/24/2019	EURHKD.fx	1:30:00 PM	8.79264	8.7914			N/A
4/24/2019	EURHKD.fx	3:30:00 PM	8.78913	8.78818			N/A
4/24/2019	EURHUF	9:30:00 AM	320.72	321.38			N/A
4/24/2019	EURHUF	11:30:00 AM	320.89	321.48			N/A
4/24/2019	EURHUF	1:30:00 PM	320.55	321.2			N/A
4/24/2019	EURHUF	3:30:00 PM	320.63	321.24			N/A
4/24/2019	EURHUF.fx	9:30:00 AM	320.98	321.19			N/A
4/24/2019	EURHUF.fx	11:30:00 AM	321.161	321.364			N/A
4/24/2019	EURHUF.fx	1:30:00 PM	320.831	321.019			N/A
4/24/2019	EURHUF.fx	3:30:00 PM	320.924	321.098			N/A
4/24/2019	EURJPY	9:30:00 AM	125.269	125.242			N/A
4/24/2019	EURJPY	11:30:00 AM	125.411	125.409			N/A

4/24/2019	EURJPY	1:30:00 PM	125.408	125.412			N/A
4/24/2019	EURJPY	3:30:00 PM	125.308	125.31			N/A
4/24/2019	EURJPY.fx	9:30:00 AM	125.272	125.238			N/A
4/24/2019	EURJPY.fx	11:30:00 AM	125.414	125.404			N/A
4/24/2019	EURJPY.fx	1:30:00 PM	125.41	125.408			N/A
4/24/2019	EURJPY.fx	3:30:00 PM	125.31	125.307			N/A
4/24/2019	EURMXN	9:30:00 AM	21.2667	21.2817			N/A
4/24/2019	EURMXN	11:30:00 AM	21.2593	21.2765			N/A
4/24/2019	EURMXN	1:30:00 PM	21.2395	21.2583			N/A
4/24/2019	EURMXN	3:30:00 PM	21.2389	21.2528			N/A
4/24/2019	EURMXN.fx	9:30:00 AM	21.2757	21.273			N/A
4/24/2019	EURMXN.fx	11:30:00 AM	21.2682	21.2673			N/A
4/24/2019	EURMXN.fx	1:30:00 PM	21.2481	21.2495			N/A
4/24/2019	EURMXN.fx	3:30:00 PM	21.2483	21.2429			N/A
4/24/2019	EURNOK	9:30:00 AM	9.6083	9.6188			N/A
4/24/2019	EURNOK	11:30:00 AM	9.6101	9.6217			N/A
4/24/2019	EURNOK	1:30:00 PM	9.6104	9.6216			N/A
4/24/2019	EURNOK	3:30:00 PM	9.604	9.6147			N/A
4/24/2019	EURNOK.fx	9:30:00 AM	9.61374	9.61352			N/A
4/24/2019	EURNOK.fx	11:30:00 AM	9.61571	9.61623			N/A
4/24/2019	EURNOK.fx	1:30:00 PM	9.61579	9.61618			N/A
4/24/2019	EURNOK.fx	3:30:00 PM	9.60949	9.6091			N/A
4/24/2019	EURNZD	9:30:00 AM	1.69293	1.69347			N/A
4/24/2019	EURNZD	11:30:00 AM	1.69339	1.6941			N/A
4/24/2019	EURNZD	1:30:00 PM	1.69359	1.6943			N/A
4/24/2019	EURNZD	3:30:00 PM	1.69311	1.69386			N/A
4/24/2019	EURNZD.fx	9:30:00 AM	1.69335	1.69302			N/A
4/24/2019	EURNZD.fx	11:30:00 AM	1.69381	1.69366			N/A
4/24/2019	EURNZD.fx	1:30:00 PM	1.69403	1.69384			N/A
4/24/2019	EURNZD.fx	3:30:00 PM	1.69352	1.69343			N/A
4/24/2019	EURPLN	9:30:00 AM	4.2863	4.2891			N/A
4/24/2019	EURPLN	11:30:00 AM	4.2872	4.2903			N/A
4/24/2019	EURPLN	1:30:00 PM	4.2884	4.2916			N/A
4/24/2019	EURPLN	3:30:00 PM	4.2882	4.2913			N/A

4/24/2019	EURPLN.fx	9:30:00 AM	4.28555	4.28972			N/A
4/24/2019	EURPLN.fx	11:30:00 AM	4.28647	4.29092			N/A
4/24/2019	EURPLN.fx	1:30:00 PM	4.28777	4.29219			N/A
4/24/2019	EURPLN.fx	3:30:00 PM	4.28757	4.29182			N/A
4/24/2019	EURRUB	9:30:00 AM					N/A
4/24/2019	EURRUB	11:30:00 AM	71.429	71.859			N/A
4/24/2019	EURRUB	1:30:00 PM	71.46	71.905			N/A
4/24/2019	EURRUB	3:30:00 PM	71.627	72.054			N/A
4/24/2019	EURSEK	9:30:00 AM	10.5095	10.5117			N/A
4/24/2019	EURSEK	11:30:00 AM	10.5015	10.5059			N/A
4/24/2019	EURSEK	1:30:00 PM	10.4999	10.5024			N/A
4/24/2019	EURSEK	3:30:00 PM	10.5036	10.5063			N/A
4/24/2019	EURSEK.fx	9:30:00 AM	10.5113	10.51026			N/A
4/24/2019	EURSEK.fx	11:30:00 AM	10.50316	10.50414			N/A
4/24/2019	EURSEK.fx	1:30:00 PM	10.50168	10.50062			N/A
4/24/2019	EURSEK.fx	3:30:00 PM	10.5053	10.50452			N/A
4/24/2019	EURSGD	9:30:00 AM	1.5233	1.5241			N/A
4/24/2019	EURSGD	11:30:00 AM	1.5236	1.5244			N/A
4/24/2019	EURSGD	1:30:00 PM	1.5235	1.5243			N/A
4/24/2019	EURSGD	3:30:00 PM	1.523	1.5238			N/A
4/24/2019	EURSGD.fx	9:30:00 AM	1.52375	1.52364			N/A
4/24/2019	EURSGD.fx	11:30:00 AM	1.52398	1.52397			N/A
4/24/2019	EURSGD.fx	1:30:00 PM	1.52394	1.52385			N/A
4/24/2019	EURSGD.fx	3:30:00 PM	1.52337	1.52337			N/A
4/24/2019	EURUSD	9:30:00 AM	1.12054	1.12048			N/A
4/24/2019	EURUSD	11:30:00 AM	1.12135	1.12136			N/A
4/24/2019	EURUSD	1:30:00 PM	1.12101	1.12101			N/A
4/24/2019	EURUSD	3:30:00 PM	1.12042	1.12047			N/A
4/24/2019	EURUSD.fx	9:30:00 AM	1.12075	1.12057			N/A
4/24/2019	EURUSD.fx	11:30:00 AM	1.12156	1.12145			N/A
4/24/2019	EURUSD.fx	1:30:00 PM	1.12121	1.1211			N/A
4/24/2019	EURUSD.fx	3:30:00 PM	1.12063	1.12056			N/A
4/24/2019	EURZAR	9:30:00 AM	16.1011	16.1167			N/A
4/24/2019	EURZAR	11:30:00 AM	16.0801	16.0951			N/A

4/24/2019	EURZAR	1:30:00 PM	16.0757	16.0957			N/A
4/24/2019	EURZAR	3:30:00 PM	16.1016	16.117			N/A
4/24/2019	EURZAR.fx	9:30:00 AM	16.10113	16.11777			N/A
4/24/2019	EURZAR.fx	11:30:00 AM	16.07955	16.0943			N/A
4/24/2019	EURZAR.fx	1:30:00 PM	16.07541	16.09619			N/A
4/24/2019	EURZAR.fx	3:30:00 PM	16.10154	16.11756			N/A
4/24/2019	GBPAUD	9:30:00 AM	1.83756	1.83828			N/A
4/24/2019	GBPAUD	11:30:00 AM	1.83503	1.83582			N/A
4/24/2019	GBPAUD	1:30:00 PM	1.83954	1.84011			N/A
4/24/2019	GBPAUD	3:30:00 PM	1.84029	1.84082			N/A
4/24/2019	GBPAUD.fx	9:30:00 AM	1.83792	1.83785			N/A
4/24/2019	GBPAUD.fx	11:30:00 AM	1.83543	1.83543			N/A
4/24/2019	GBPAUD.fx	1:30:00 PM	1.83996	1.83969			N/A
4/24/2019	GBPAUD.fx	3:30:00 PM	1.84068	1.84038			N/A
4/24/2019	GBPCAD	9:30:00 AM	1.73871	1.73941			N/A
4/24/2019	GBPCAD	11:30:00 AM	1.73886	1.7397			N/A
4/24/2019	GBPCAD	1:30:00 PM	1.74091	1.74131			N/A
4/24/2019	GBPCAD	3:30:00 PM	1.74116	1.74184			N/A
4/24/2019	GBPCAD.fx	9:30:00 AM	1.73908	1.73899			N/A
4/24/2019	GBPCAD.fx	11:30:00 AM	1.73925	1.73932			N/A
4/24/2019	GBPCAD.fx	1:30:00 PM	1.74133	1.7409			N/A
4/24/2019	GBPCAD.fx	3:30:00 PM	1.74155	1.74145			N/A
4/24/2019	GBPCHF	9:30:00 AM	1.31846	1.31885			N/A
4/24/2019	GBPCHF	11:30:00 AM	1.31659	1.31708			N/A
4/24/2019	GBPCHF	1:30:00 PM	1.31828	1.31871			N/A
4/24/2019	GBPCHF	3:30:00 PM	1.31871	1.31908			N/A
4/24/2019	GBPCHF.fx	9:30:00 AM	1.31864	1.31864			N/A
4/24/2019	GBPCHF.fx	11:30:00 AM	1.31678	1.31687			N/A
4/24/2019	GBPCHF.fx	1:30:00 PM	1.31847	1.31849			N/A
4/24/2019	GBPCHF.fx	3:30:00 PM	1.31889	1.31888			N/A
4/24/2019	GBPCZK	9:30:00 AM	29.656	29.675			N/A
4/24/2019	GBPCZK	11:30:00 AM	29.64	29.662			N/A
4/24/2019	GBPCZK	1:30:00 PM	29.682	29.701			N/A
4/24/2019	GBPCZK	3:30:00 PM	29.702	29.724			N/A

4/24/2019	GBPDKK	9:30:00 AM	8.607	8.617			N/A
4/24/2019	GBPDKK	11:30:00 AM	8.599	8.611			N/A
4/24/2019	GBPDKK	1:30:00 PM	8.616	8.627			N/A
4/24/2019	GBPDKK	3:30:00 PM	8.623	8.634			N/A
4/24/2019	GBPDKK.fx	9:30:00 AM	8.6053	8.6176			N/A
4/24/2019	GBPDKK.fx	11:30:00 AM	8.5981	8.6111			N/A
4/24/2019	GBPDKK.fx	1:30:00 PM	8.6145	8.627			N/A
4/24/2019	GBPDKK.fx	3:30:00 PM	8.6219	8.6343			N/A
4/24/2019	GBPHKD	9:30:00 AM	10.1295	10.1349			N/A
4/24/2019	GBPHKD	11:30:00 AM	10.1321	10.138			N/A
4/24/2019	GBPHKD	1:30:00 PM	10.1465	10.1508			N/A
4/24/2019	GBPHKD	3:30:00 PM	10.1509	10.1562			N/A
4/24/2019	GBPHUF	9:30:00 AM	369.96	370.42			N/A
4/24/2019	GBPHUF	11:30:00 AM	369.85	370.31			N/A
4/24/2019	GBPHUF	1:30:00 PM	370.18	370.62			N/A
4/24/2019	GBPHUF	3:30:00 PM	370.53	371.01			N/A
4/24/2019	GBPJPY	9:30:00 AM	144.46	144.481			N/A
4/24/2019	GBPJPY	11:30:00 AM	144.516	144.555			N/A
4/24/2019	GBPJPY	1:30:00 PM	144.781	144.813			N/A
4/24/2019	GBPJPY	3:30:00 PM	144.782	144.816			N/A
4/24/2019	GBPJPY.fx	9:30:00 AM	144.48	144.46			N/A
4/24/2019	GBPJPY.fx	11:30:00 AM	144.535	144.535			N/A
4/24/2019	GBPJPY.fx	1:30:00 PM	144.802	144.792			N/A
4/24/2019	GBPJPY.fx	3:30:00 PM	144.803	144.795			N/A
4/24/2019	GBPMXN	9:30:00 AM	24.5293	24.5376			N/A
4/24/2019	GBPMXN	11:30:00 AM	24.5003	24.5116			N/A
4/24/2019	GBPMXN	1:30:00 PM	24.521	24.5329			N/A
4/24/2019	GBPMXN	3:30:00 PM	24.542	24.5511			N/A
4/24/2019	GBPNOK	9:30:00 AM	11.0844	11.0936			N/A
4/24/2019	GBPNOK	11:30:00 AM	11.0767	11.0876			N/A
4/24/2019	GBPNOK	1:30:00 PM	11.0979	11.1076			N/A
4/24/2019	GBPNOK	3:30:00 PM	11.0993	11.1084			N/A
4/24/2019	GBPNOK.fx	9:30:00 AM	11.08921	11.08869			N/A
4/24/2019	GBPNOK.fx	11:30:00 AM	11.08162	11.08259			N/A

4/24/2019	GBPNOK.fx	1:30:00 PM	11.10296	11.10269			N/A
4/24/2019	GBPNOK.fx	3:30:00 PM	11.10434	11.10346			N/A
4/24/2019	GBPNZD	9:30:00 AM	1.95244	1.9531			N/A
4/24/2019	GBPNZD	11:30:00 AM	1.95167	1.95226			N/A
4/24/2019	GBPNZD	1:30:00 PM	1.9552	1.95584			N/A
4/24/2019	GBPNZD	3:30:00 PM	1.95637	1.95703			N/A
4/24/2019	GBPNZD.fx	9:30:00 AM	1.95281	1.95268			N/A
4/24/2019	GBPNZD.fx	11:30:00 AM	1.95203	1.95189			N/A
4/24/2019	GBPNZD.fx	1:30:00 PM	1.9556	1.95545			N/A
4/24/2019	GBPNZD.fx	3:30:00 PM	1.95673	1.95668			N/A
4/24/2019	GBPPLN	9:30:00 AM	4.9451	4.9464			N/A
4/24/2019	GBPPLN	11:30:00 AM	4.9421	4.9436			N/A
4/24/2019	GBPPLN	1:30:00 PM	4.9524	4.954			N/A
4/24/2019	GBPPLN	3:30:00 PM	4.9564	4.9579			N/A
4/24/2019	GBPPLN.fx	9:30:00 AM	4.94297	4.94854			N/A
4/24/2019	GBPPLN.fx	11:30:00 AM	4.93996	4.94564			N/A
4/24/2019	GBPPLN.fx	1:30:00 PM	4.95023	4.95604			N/A
4/24/2019	GBPPLN.fx	3:30:00 PM	4.95443	4.96004			N/A
4/24/2019	GBPSEK	9:30:00 AM	12.1201	12.1277			N/A
4/24/2019	GBPSEK	11:30:00 AM	12.1015	12.11			N/A
4/24/2019	GBPSEK	1:30:00 PM	12.1201	12.1274			N/A
4/24/2019	GBPSEK	3:30:00 PM	12.1354	12.1426			N/A
4/24/2019	GBPSEK.fx	9:30:00 AM	12.11637	12.13156			N/A
4/24/2019	GBPSEK.fx	11:30:00 AM	12.09798	12.11353			N/A
4/24/2019	GBPSEK.fx	1:30:00 PM	12.11674	12.13079			N/A
4/24/2019	GBPSEK.fx	3:30:00 PM	12.13188	12.14612			N/A
4/24/2019	GBPSGD	9:30:00 AM	1.7572	1.7578			N/A
4/24/2019	GBPSGD	11:30:00 AM	1.7561	1.7567			N/A
4/24/2019	GBPSGD	1:30:00 PM	1.7591	1.7598			N/A
4/24/2019	GBPSGD	3:30:00 PM	1.76	1.7607			N/A
4/24/2019	GBPSGD.fx	9:30:00 AM	1.75533	1.75956			N/A
4/24/2019	GBPSGD.fx	11:30:00 AM	1.75416	1.7585			N/A
4/24/2019	GBPSGD.fx	1:30:00 PM	1.75729	1.76152			N/A
4/24/2019	GBPSGD.fx	3:30:00 PM	1.75819	1.76249			N/A

4/24/2019	GBPUSD	9:30:00 AM	1.29256	1.29254			N/A
4/24/2019	GBPUSD	11:30:00 AM	1.29255	1.29252			N/A
4/24/2019	GBPUSD	1:30:00 PM	1.29446	1.2944			N/A
4/24/2019	GBPUSD	3:30:00 PM	1.29489	1.29486			N/A
4/24/2019	GBPUSD.fx	9:30:00 AM	1.29262	1.29248			N/A
4/24/2019	GBPUSD.fx	11:30:00 AM	1.2926	1.29247			N/A
4/24/2019	GBPUSD.fx	1:30:00 PM	1.29452	1.29433			N/A
4/24/2019	GBPUSD.fx	3:30:00 PM	1.29496	1.29481			N/A
4/24/2019	GBPZAR	9:30:00 AM	18.5653	18.5928			N/A
4/24/2019	GBPZAR	11:30:00 AM	18.5297	18.5525			N/A
4/24/2019	GBPZAR	1:30:00 PM	18.557	18.5858			N/A
4/24/2019	GBPZAR	3:30:00 PM	18.6026	18.6265			N/A
4/24/2019	GBPZAR.fx	9:30:00 AM	18.5727	18.5853			N/A
4/24/2019	GBPZAR.fx	11:30:00 AM	18.5365	18.5449			N/A
4/24/2019	GBPZAR.fx	1:30:00 PM	18.5642	18.5787			N/A
4/24/2019	GBPZAR.fx	3:30:00 PM	18.6105	18.6193			N/A
4/24/2019	GOLD	9:30:00 AM	1270.07	1270.29			N/A
4/24/2019	GOLD	11:30:00 AM	1273.54	1273.61			N/A
4/24/2019	GOLD	1:30:00 PM	1272.27	1272.32			N/A
4/24/2019	GOLD	3:30:00 PM	1270.84	1270.67			N/A
4/24/2019	HKDJPY	9:30:00 AM	14.26	14.26			N/A
4/24/2019	HKDJPY	11:30:00 AM					N/A
4/24/2019	HKDJPY	1:30:00 PM	14.27	14.27			N/A
4/24/2019	HKDJPY	3:30:00 PM	14.26	14.27			N/A
4/24/2019	HKDJPY.fx	9:30:00 AM	14.251	14.257			N/A
4/24/2019	HKDJPY.fx	11:30:00 AM	14.253	14.261			N/A
4/24/2019	HKDJPY.fx	1:30:00 PM	14.259	14.267			N/A
4/24/2019	HKDJPY.fx	3:30:00 PM	14.254	14.261			N/A
4/24/2019	HUFJPY	9:30:00 AM	0.3906	0.3909			N/A
4/24/2019	HUFJPY	11:30:00 AM	0.3906	0.3909			N/A
4/24/2019	HUFJPY	1:30:00 PM	0.391	0.3913			N/A
4/24/2019	HUFJPY	3:30:00 PM	0.3908	0.3911			N/A
4/24/2019	JP225.i	9:30:00 AM	22149.36	22164.36			N/A
4/24/2019	JP225.i	11:30:00 AM	22174.36	22189.36			N/A

4/24/2019	JP225.i	1:30:00 PM	22229.36	22246.86			N/A
4/24/2019	JP225.i	3:30:00 PM	22199.36	22214.36			N/A
4/24/2019	MXNJPY	9:30:00 AM	5.88	5.9			N/A
4/24/2019	MXNJPY	11:30:00 AM	5.9	5.91			N/A
4/24/2019	MXNJPY	1:30:00 PM					N/A
4/24/2019	MXNJPY	3:30:00 PM	5.89	5.91			N/A
4/24/2019	NASDAQ.i	9:30:00 AM					N/A
4/24/2019	NASDAQ.i	11:30:00 AM					N/A
4/24/2019	NASDAQ.i	1:30:00 PM					N/A
4/24/2019	NASDAQ.i	3:30:00 PM					N/A
4/24/2019	NOKJPY	9:30:00 AM	13.02	13.05			N/A
4/24/2019	NOKJPY	11:30:00 AM					N/A
4/24/2019	NOKJPY	1:30:00 PM	13.02	13.06			N/A
4/24/2019	NOKJPY	3:30:00 PM	13.03	13.06			N/A
4/24/2019	NOKJPY.fx	9:30:00 AM	13.028	13.03			N/A
4/24/2019	NOKJPY.fx	11:30:00 AM	13.038	13.045			N/A
4/24/2019	NOKJPY.fx	1:30:00 PM	13.039	13.045			N/A
4/24/2019	NOKJPY.fx	3:30:00 PM	13.038	13.043			N/A
4/24/2019	NZDCAD	9:30:00 AM	0.89034	0.89093			N/A
4/24/2019	NZDCAD	11:30:00 AM	0.89079	0.89141			N/A
4/24/2019	NZDCAD	1:30:00 PM	0.89015	0.89069			N/A
4/24/2019	NZDCAD	3:30:00 PM	0.88978	0.89045			N/A
4/24/2019	NZDCAD.fx	9:30:00 AM	0.89068	0.8906			N/A
4/24/2019	NZDCAD.fx	11:30:00 AM	0.89113	0.89108			N/A
4/24/2019	NZDCAD.fx	1:30:00 PM	0.89049	0.89033			N/A
4/24/2019	NZDCAD.fx	3:30:00 PM	0.89011	0.8901			N/A
4/24/2019	NZDCHF	9:30:00 AM	0.67483	0.67551			N/A
4/24/2019	NZDCHF	11:30:00 AM	0.6742	0.67488			N/A
4/24/2019	NZDCHF	1:30:00 PM	0.67379	0.6745			N/A
4/24/2019	NZDCHF	3:30:00 PM	0.67358	0.67431			N/A
4/24/2019	NZDCHF.fx	9:30:00 AM	0.67518	0.67515			N/A
4/24/2019	NZDCHF.fx	11:30:00 AM	0.67454	0.67452			N/A
4/24/2019	NZDCHF.fx	1:30:00 PM	0.67414	0.67414			N/A
4/24/2019	NZDCHF.fx	3:30:00 PM	0.67392	0.67394			N/A

4/24/2019	NZDCZK	9:30:00 AM	15.188	15.198			N/A
4/24/2019	NZDCZK	11:30:00 AM	15.187	15.199			N/A
4/24/2019	NZDCZK	1:30:00 PM	15.18	15.19			N/A
4/24/2019	NZDCZK	3:30:00 PM	15.181	15.193			N/A
4/24/2019	NZDDKK	9:30:00 AM	4.408	4.412			N/A
4/24/2019	NZDDKK	11:30:00 AM					N/A
4/24/2019	NZDDKK	1:30:00 PM					N/A
4/24/2019	NZDDKK	3:30:00 PM					N/A
4/24/2019	NZDHKD	9:30:00 AM	5.1876	5.1905			N/A
4/24/2019	NZDHKD	11:30:00 AM	5.1912	5.1941			N/A
4/24/2019	NZDHKD	1:30:00 PM	5.1886	5.1915			N/A
4/24/2019	NZDHKD	3:30:00 PM	5.1888	5.1912			N/A
4/24/2019	NZDHUF	9:30:00 AM	189.43	189.72			N/A
4/24/2019	NZDHUF	11:30:00 AM	189.47	189.76			N/A
4/24/2019	NZDHUF	1:30:00 PM	189.28	189.57			N/A
4/24/2019	NZDHUF	3:30:00 PM	189.37	189.65			N/A
4/24/2019	NZDJPY	9:30:00 AM	73.9	73.968			N/A
4/24/2019	NZDJPY	11:30:00 AM	73.966	74.033			N/A
4/24/2019	NZDJPY	1:30:00 PM	73.963	74.033			N/A
4/24/2019	NZDJPY	3:30:00 PM	73.919	73.99			N/A
4/24/2019	NZDJPY.fx	9:30:00 AM	73.931	73.936			N/A
4/24/2019	NZDJPY.fx	11:30:00 AM	73.999	73.999			N/A
4/24/2019	NZDJPY.fx	1:30:00 PM	73.994	74			N/A
4/24/2019	NZDJPY.fx	3:30:00 PM	73.951	73.958			N/A
4/24/2019	NZDMXN	9:30:00 AM	12.5621	12.5647			N/A
4/24/2019	NZDMXN	11:30:00 AM	12.5538	12.5577			N/A
4/24/2019	NZDMXN	1:30:00 PM	12.54	12.5458			N/A
4/24/2019	NZDMXN	3:30:00 PM	12.544	12.5461			N/A
4/24/2019	NZDNOK	9:30:00 AM	5.6756	5.6787			N/A
4/24/2019	NZDNOK	11:30:00 AM	5.6743	5.678			N/A
4/24/2019	NZDNOK	1:30:00 PM	5.6748	5.6783			N/A
4/24/2019	NZDNOK	3:30:00 PM	5.6716	5.6755			N/A
4/24/2019	NZDPLN	9:30:00 AM	2.5316	2.5329			N/A
4/24/2019	NZDPLN	11:30:00 AM	2.5314	2.5329			N/A

4/24/2019	NZDPLN	1:30:00 PM	2.5319	2.5333			N/A
4/24/2019	NZDPLN	3:30:00 PM	2.5329	2.5342			N/A
4/24/2019	NZDSEK	9:30:00 AM	6.2045	6.2102			N/A
4/24/2019	NZDSEK	11:30:00 AM	6.198	6.2041			N/A
4/24/2019	NZDSEK	1:30:00 PM	6.1953	6.2011			N/A
4/24/2019	NZDSEK	3:30:00 PM	6.1991	6.2058			N/A
4/24/2019	NZDSGD	9:30:00 AM	0.8998	0.9005			N/A
4/24/2019	NZDSGD	11:30:00 AM	0.8997	0.9003			N/A
4/24/2019	NZDSGD	1:30:00 PM	0.8995	0.9			N/A
4/24/2019	NZDSGD	3:30:00 PM	0.8995	0.9001			N/A
4/24/2019	NZDSGD.fx	9:30:00 AM	0.89978	0.90037			N/A
4/24/2019	NZDSGD.fx	11:30:00 AM	0.89968	0.9002			N/A
4/24/2019	NZDSGD.fx	1:30:00 PM	0.89955	0.90011			N/A
4/24/2019	NZDSGD.fx	3:30:00 PM	0.89942	0.90001			N/A
4/24/2019	NZDUSD	9:30:00 AM	0.66192	0.66205			N/A
4/24/2019	NZDUSD	11:30:00 AM	0.66219	0.66226			N/A
4/24/2019	NZDUSD	1:30:00 PM	0.66195	0.66206			N/A
4/24/2019	NZDUSD	3:30:00 PM	0.66177	0.66189			N/A
4/24/2019	NZDUSD.fx	9:30:00 AM	0.66199	0.66205			N/A
4/24/2019	NZDUSD.fx	11:30:00 AM	0.66227	0.66226			N/A
4/24/2019	NZDUSD.fx	1:30:00 PM	0.66202	0.66208			N/A
4/24/2019	NZDUSD.fx	3:30:00 PM	0.66185	0.6619			N/A
4/24/2019	NZDZAR	9:30:00 AM	9.5019	9.5197			N/A
4/24/2019	NZDZAR	11:30:00 AM	9.4884	9.5026			N/A
4/24/2019	NZDZAR	1:30:00 PM	9.4853	9.5024			N/A
4/24/2019	NZDZAR	3:30:00 PM	9.5016	9.5171			N/A
4/24/2019	SEKJPY	9:30:00 AM	11.91	11.93			N/A
4/24/2019	SEKJPY	11:30:00 AM	11.94	11.95			N/A
4/24/2019	SEKJPY	1:30:00 PM	11.94	11.95			N/A
4/24/2019	SEKJPY	3:30:00 PM	11.93	11.94			N/A
4/24/2019	SEKJPY.fx	9:30:00 AM	11.907	11.923			N/A
4/24/2019	SEKJPY.fx	11:30:00 AM	11.93	11.948			N/A
4/24/2019	SEKJPY.fx	1:30:00 PM	11.934	11.95			N/A
4/24/2019	SEKJPY.fx	3:30:00 PM	11.92	11.936			N/A

4/24/2019	SGDJPY	9:30:00 AM	82.17	82.2			N/A
4/24/2019	SGDJPY	11:30:00 AM	82.3	82.29			N/A
4/24/2019	SGDJPY	1:30:00 PM	82.32	82.3			N/A
4/24/2019	SGDJPY	3:30:00 PM	82.25	82.25			N/A
4/24/2019	SILVER	9:30:00 AM	14.61	15			N/A
4/24/2019	SILVER	11:30:00 AM	14.66	15.05			N/A
4/24/2019	SILVER	1:30:00 PM	14.64	15.01			N/A
4/24/2019	SILVER	3:30:00 PM	14.65	15.01			N/A
4/24/2019	SPX500.i	9:30:00 AM	2931.79	2932.84			N/A
4/24/2019	SPX500.i	11:30:00 AM	2932.04	2933.09			N/A
4/24/2019	SPX500.i	1:30:00 PM	2936.54	2937.34			N/A
4/24/2019	SPX500.i	3:30:00 PM	2936.54	2937.59			N/A
4/24/2019	UK100.i	9:30:00 AM	7519.08	7521.33			N/A
4/24/2019	UK100.i	11:30:00 AM	7498.83	7500.58			N/A
4/24/2019	UK100.i	1:30:00 PM	7512.58	7514			N/A
4/24/2019	UK100.i	3:30:00 PM	7490.33	7491.08			N/A
4/24/2019	USDCAD	9:30:00 AM	1.3455	1.34547			N/A
4/24/2019	USDCAD	11:30:00 AM	1.34561	1.34567			N/A
4/24/2019	USDCAD	1:30:00 PM	1.34515	1.34505			N/A
4/24/2019	USDCAD	3:30:00 PM	1.34497	1.34498			N/A
4/24/2019	USDCAD.fx	9:30:00 AM	1.34552	1.34543			N/A
4/24/2019	USDCAD.fx	11:30:00 AM	1.34563	1.34564			N/A
4/24/2019	USDCAD.fx	1:30:00 PM	1.34518	1.34501			N/A
4/24/2019	USDCAD.fx	3:30:00 PM	1.345	1.34494			N/A
4/24/2019	USDCHF	9:30:00 AM	1.02015	1.02018			N/A
4/24/2019	USDCHF	11:30:00 AM	1.01876	1.01885			N/A
4/24/2019	USDCHF	1:30:00 PM	1.01855	1.01859			N/A
4/24/2019	USDCHF	3:30:00 PM	1.01846	1.01862			N/A
4/24/2019	USDCHF.fx	9:30:00 AM	1.0202	1.02012			N/A
4/24/2019	USDCHF.fx	11:30:00 AM	1.01881	1.01877			N/A
4/24/2019	USDCHF.fx	1:30:00 PM	1.0186	1.01852			N/A
4/24/2019	USDCHF.fx	3:30:00 PM	1.01852	1.01856			N/A
4/24/2019	USDCZK	9:30:00 AM	22.96	22.979			N/A
4/24/2019	USDCZK	11:30:00 AM	22.949	22.97			N/A

4/24/2019	USDCZK	1:30:00 PM	22.943	22.964			N/A
4/24/2019	USDCZK	3:30:00 PM	22.954	22.975			N/A
4/24/2019	USDCZK.fx	9:30:00 AM	22.9702	22.9699			N/A
4/24/2019	USDCZK.fx	11:30:00 AM	22.957	22.9613			N/A
4/24/2019	USDCZK.fx	1:30:00 PM	22.953	22.9542			N/A
4/24/2019	USDCZK.fx	3:30:00 PM	22.9626	22.966			N/A
4/24/2019	USDDKK	9:30:00 AM	6.6613	6.6644			N/A
4/24/2019	USDDKK	11:30:00 AM	6.6561	6.6595			N/A
4/24/2019	USDDKK	1:30:00 PM	6.6586	6.6623			N/A
4/24/2019	USDDKK	3:30:00 PM	6.662	6.6656			N/A
4/24/2019	USDDKK.fx	9:30:00 AM	6.66182	6.66232			N/A
4/24/2019	USDDKK.fx	11:30:00 AM	6.6567	6.65753			N/A
4/24/2019	USDDKK.fx	1:30:00 PM	6.65908	6.65992			N/A
4/24/2019	USDDKK.fx	3:30:00 PM	6.66247	6.66353			N/A
4/24/2019	USDHKD	9:30:00 AM	7.8405	7.8407			N/A
4/24/2019	USDHKD	11:30:00 AM	7.8425	7.8428			N/A
4/24/2019	USDHKD	1:30:00 PM	7.8416	7.8417			N/A
4/24/2019	USDHKD	3:30:00 PM	7.8426	7.843			N/A
4/24/2019	USDHKD.fx	9:30:00 AM	7.84044	7.84094			N/A
4/24/2019	USDHKD.fx	11:30:00 AM	7.84252	7.84301			N/A
4/24/2019	USDHKD.fx	1:30:00 PM	7.84163	7.84221			N/A
4/24/2019	USDHKD.fx	3:30:00 PM	7.84255	7.8431			N/A
4/24/2019	USDHUF	9:30:00 AM	286.28	286.72			N/A
4/24/2019	USDHUF	11:30:00 AM	286.22	286.67			N/A
4/24/2019	USDHUF	1:30:00 PM	286.03	286.47			N/A
4/24/2019	USDHUF	3:30:00 PM	286.23	286.7			N/A
4/24/2019	USDHUF.fx	9:30:00 AM	286.485	286.515			N/A
4/24/2019	USDHUF.fx	11:30:00 AM	286.423	286.457			N/A
4/24/2019	USDHUF.fx	1:30:00 PM	286.234	286.267			N/A
4/24/2019	USDHUF.fx	3:30:00 PM	286.445	286.487			N/A
4/24/2019	USDINR	9:30:00 AM	64.94	74.93			N/A
4/24/2019	USDINR	11:30:00 AM	64.86	74.85			N/A
4/24/2019	USDINR	1:30:00 PM					N/A
4/24/2019	USDINR	3:30:00 PM					N/A

4/24/2019	USDJPY	9:30:00 AM	111.769	111.769			N/A
4/24/2019	USDJPY	11:30:00 AM	111.814	111.832			N/A
4/24/2019	USDJPY	1:30:00 PM	111.856	111.864			N/A
4/24/2019	USDJPY	3:30:00 PM	111.817	111.832			N/A
4/24/2019	USDJPY.fx	9:30:00 AM	111.775	111.762			N/A
4/24/2019	USDJPY.fx	11:30:00 AM	111.821	111.825			N/A
4/24/2019	USDJPY.fx	1:30:00 PM	111.862	111.857			N/A
4/24/2019	USDJPY.fx	3:30:00 PM	111.823	111.824			N/A
4/24/2019	USDMXN	9:30:00 AM	18.983	18.985			N/A
4/24/2019	USDMXN	11:30:00 AM	18.963	18.967			N/A
4/24/2019	USDMXN	1:30:00 PM	18.949	18.957			N/A
4/24/2019	USDMXN	3:30:00 PM	18.959	18.96			N/A
4/24/2019	USDMXN.fx	9:30:00 AM	18.9873	18.9818			N/A
4/24/2019	USDMXN.fx	11:30:00 AM	18.9663	18.9636			N/A
4/24/2019	USDMXN.fx	1:30:00 PM	18.9521	18.9532			N/A
4/24/2019	USDMXN.fx	3:30:00 PM	18.9626	18.9563			N/A
4/24/2019	USDNOK	9:30:00 AM	8.5757	8.5823			N/A
4/24/2019	USDNOK	11:30:00 AM	8.5705	8.5787			N/A
4/24/2019	USDNOK	1:30:00 PM	8.5738	8.5807			N/A
4/24/2019	USDNOK	3:30:00 PM	8.5718	8.5792			N/A
4/24/2019	USDNOK.fx	9:30:00 AM	8.57977	8.57796			N/A
4/24/2019	USDNOK.fx	11:30:00 AM	8.5746	8.57426			N/A
4/24/2019	USDNOK.fx	1:30:00 PM	8.57776	8.57629			N/A
4/24/2019	USDNOK.fx	3:30:00 PM	8.5758	8.5748			N/A
4/24/2019	USDPLN	9:30:00 AM	3.8256	3.8266			N/A
4/24/2019	USDPLN	11:30:00 AM	3.8235	3.8245			N/A
4/24/2019	USDPLN	1:30:00 PM	3.8258	3.8269			N/A
4/24/2019	USDPLN	3:30:00 PM	3.8276	3.8287			N/A
4/24/2019	USDPLN.fx	9:30:00 AM	3.82481	3.82741			N/A
4/24/2019	USDPLN.fx	11:30:00 AM	3.82268	3.8254			N/A
4/24/2019	USDPLN.fx	1:30:00 PM	3.82499	3.82771			N/A
4/24/2019	USDPLN.fx	3:30:00 PM	3.82677	3.82953			N/A
4/24/2019	USDRUB	9:30:00 AM					N/A
4/24/2019	USDRUB	11:30:00 AM	63.8	64.193			N/A

4/24/2019	USDRUB	1:30:00 PM	63.858	64.248			N/A
4/24/2019	USDRUB	3:30:00 PM	64.034	64.41			N/A
4/24/2019	USDSEK	9:30:00 AM	9.3781	9.3808			N/A
4/24/2019	USDSEK	11:30:00 AM	9.364	9.3667			N/A
4/24/2019	USDSEK	1:30:00 PM	9.3652	9.368			N/A
4/24/2019	USDSEK	3:30:00 PM	9.373	9.3756			N/A
4/24/2019	USDSEK.fx	9:30:00 AM	9.38056	9.37899			N/A
4/24/2019	USDSEK.fx	11:30:00 AM	9.36652	9.36496			N/A
4/24/2019	USDSEK.fx	1:30:00 PM	9.36775	9.3661			N/A
4/24/2019	USDSEK.fx	3:30:00 PM	9.37552	9.37358			N/A
4/24/2019	USDSGD	9:30:00 AM	1.3595	1.3595			N/A
4/24/2019	USDSGD	11:30:00 AM	1.3587	1.3591			N/A
4/24/2019	USDSGD	1:30:00 PM	1.3591	1.3595			N/A
4/24/2019	USDSGD	3:30:00 PM	1.3593	1.3597			N/A
4/24/2019	USDSGD.fx	9:30:00 AM	1.35941	1.35987			N/A
4/24/2019	USDSGD.fx	11:30:00 AM	1.35869	1.35908			N/A
4/24/2019	USDSGD.fx	1:30:00 PM	1.35898	1.35947			N/A
4/24/2019	USDSGD.fx	3:30:00 PM	1.3592	1.35969			N/A
4/24/2019	USDZAR	9:30:00 AM	14.3666	14.383			N/A
4/24/2019	USDZAR	11:30:00 AM	14.3355	14.3522			N/A
4/24/2019	USDZAR	1:30:00 PM	14.3389	14.3574			N/A
4/24/2019	USDZAR	3:30:00 PM	14.3688	14.3833			N/A
4/24/2019	USDZAR.fx	9:30:00 AM	14.37155	14.37775			N/A
4/24/2019	USDZAR.fx	11:30:00 AM	14.34137	14.34612			N/A
4/24/2019	USDZAR.fx	1:30:00 PM	14.34487	14.35062			N/A
4/24/2019	USDZAR.fx	3:30:00 PM	14.37528	14.37673			N/A
4/24/2019	XAUUSD	9:30:00 AM	1270.08	1270.29			N/A
4/24/2019	XAUUSD	11:30:00 AM	1273.53	1273.62			N/A
4/24/2019	XAUUSD	1:30:00 PM	1272.28	1272.32			N/A
4/24/2019	XAUUSD	3:30:00 PM	1270.84	1270.67			N/A
4/24/2019	ZARJPY	9:30:00 AM	7.75	7.78			N/A
4/24/2019	ZARJPY	11:30:00 AM	7.78	7.8			N/A
4/24/2019	ZARJPY	1:30:00 PM	7.77	7.81			N/A
4/24/2019	ZARJPY	3:30:00 PM	7.75	7.79			N/A

4/24/2019	ZARJPY.fx	9:30:00 AM	7.773	7.777			N/A
4/24/2019	ZARJPY.fx	11:30:00 AM	7.795	7.798			N/A
4/24/2019	ZARJPY.fx	1:30:00 PM	7.793	7.798			N/A
4/24/2019	ZARJPY.fx	3:30:00 PM	7.777	7.779			N/A
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4/25/2019	#AABA	3:30:00 PM					N/A
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4/25/2019	#AAL	3:30:00 PM	33.23	34.12			N/A
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4/25/2019	#AMZN	9:30:00 AM					N/A
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4/25/2019	#AMZN	1:30:00 PM					N/A
4/25/2019	#AMZN	3:30:00 PM					N/A
4/25/2019	#AXP	9:30:00 AM					N/A
4/25/2019	#AXP	11:30:00 AM					N/A
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4/25/2019	#Bitcoin	9:30:00 AM	5407.71	5437.71			N/A
4/25/2019	#Bitcoin	11:30:00 AM	5436.06	5470.86			N/A
4/25/2019	#Bitcoin	1:30:00 PM	5455.71	5490.71			N/A
4/25/2019	#Bitcoin	3:30:00 PM	5469.11	5503.81			N/A

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4/25/2019	#CL.f	9:30:00 AM	65.877	65.937			N/A
4/25/2019	#CL.f	11:30:00 AM	66.089	66.097			N/A
4/25/2019	#CL.f	1:30:00 PM	66.155	66.184			N/A
4/25/2019	#CL.f	3:30:00 PM	66.021	66.051			N/A
4/25/2019	#CMCSA	9:30:00 AM					N/A
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4/25/2019	#Ethereum	9:30:00 AM	162.66	164.49			N/A
4/25/2019	#Ethereum	11:30:00 AM	162.9	164.89			N/A
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4/25/2019	AUDNOK.fx	11:30:00 AM	6.0905	6.0848			N/A
4/25/2019	AUDNOK.fx	1:30:00 PM	6.0772	6.079			N/A
4/25/2019	AUDNOK.fx	3:30:00 PM	6.0824	6.0815			N/A
4/25/2019	AUDNZD	9:30:00 AM	1.06358	1.06444			N/A
4/25/2019	AUDNZD	11:30:00 AM	1.06269	1.06344			N/A
4/25/2019	AUDNZD	1:30:00 PM	1.06194	1.06283			N/A
4/25/2019	AUDNZD	3:30:00 PM	1.06078	1.06124			N/A
4/25/2019	AUDNZD.fx	9:30:00 AM	1.06404	1.06397			N/A
4/25/2019	AUDNZD.fx	11:30:00 AM	1.06314	1.06296			N/A
4/25/2019	AUDNZD.fx	1:30:00 PM	1.06237	1.06237			N/A
4/25/2019	AUDNZD.fx	3:30:00 PM	1.06119	1.06079			N/A
4/25/2019	AUDPLN	9:30:00 AM	2.7002	2.7035			N/A
4/25/2019	AUDPLN	11:30:00 AM	2.7013	2.7031			N/A

4/25/2019	AUDPLN	1:30:00 PM	2.6988	2.7019			N/A
4/25/2019	AUDPLN	3:30:00 PM	2.6995	2.7015			N/A
4/25/2019	AUDSEK	9:30:00 AM	6.6117	6.6138			N/A
4/25/2019	AUDSEK	11:30:00 AM	6.6976	6.6939			N/A
4/25/2019	AUDSEK	1:30:00 PM	6.6951	6.6959			N/A
4/25/2019	AUDSEK	3:30:00 PM	6.6856	6.6834			N/A
4/25/2019	AUDSEK.fx	9:30:00 AM	6.6071	6.6182			N/A
4/25/2019	AUDSEK.fx	11:30:00 AM	6.6929	6.6984			N/A
4/25/2019	AUDSEK.fx	1:30:00 PM	6.6907	6.7003			N/A
4/25/2019	AUDSEK.fx	3:30:00 PM	6.6812	6.6878			N/A
4/25/2019	AUDSGD	9:30:00 AM	0.956	0.9561			N/A
4/25/2019	AUDSGD	11:30:00 AM	0.9559	0.9556			N/A
4/25/2019	AUDSGD	1:30:00 PM	0.955	0.9552			N/A
4/25/2019	AUDSGD	3:30:00 PM	0.9546	0.9547			N/A
4/25/2019	AUDSGD.fx	9:30:00 AM	0.95605	0.95601			N/A
4/25/2019	AUDSGD.fx	11:30:00 AM	0.95599	0.95552			N/A
4/25/2019	AUDSGD.fx	1:30:00 PM	0.95511	0.95513			N/A
4/25/2019	AUDSGD.fx	3:30:00 PM	0.95468	0.95457			N/A
4/25/2019	AUDUSD	9:30:00 AM	0.70155	0.7016			N/A
4/25/2019	AUDUSD	11:30:00 AM	0.70078	0.70033			N/A
4/25/2019	AUDUSD	1:30:00 PM	0.7001	0.70011			N/A
4/25/2019	AUDUSD	3:30:00 PM	0.69922	0.69906			N/A
4/25/2019	AUDUSD.fx	9:30:00 AM	0.70159	0.70154			N/A
4/25/2019	AUDUSD.fx	11:30:00 AM	0.70085	0.70027			N/A
4/25/2019	AUDUSD.fx	1:30:00 PM	0.70016	0.70006			N/A
4/25/2019	AUDUSD.fx	3:30:00 PM	0.69924	0.69903			N/A
4/25/2019	AUDZAR	9:30:00 AM	10.1219	10.1348			N/A
4/25/2019	AUDZAR	11:30:00 AM	10.14	10.1488			N/A
4/25/2019	AUDZAR	1:30:00 PM	10.1614	10.174			N/A
4/25/2019	AUDZAR	3:30:00 PM	10.1558	10.1676			N/A
4/25/2019	AUS200.i	9:30:00 AM					N/A
4/25/2019	AUS200.i	11:30:00 AM	6384.22	6387.62			N/A
4/25/2019	AUS200.i	1:30:00 PM	6391.62	6394.62			N/A
4/25/2019	AUS200.i	3:30:00 PM	6393.42	6396.62			N/A

4/25/2019	BCHUSD	9:30:00 AM	282.11	283.92			N/A
4/25/2019	BCHUSD	11:30:00 AM	285.33	287.13			N/A
4/25/2019	BCHUSD	1:30:00 PM	288.97	289.95			N/A
4/25/2019	BCHUSD	3:30:00 PM	287.82	289.79			N/A
4/25/2019	CADCHF	9:30:00 AM	0.75651	0.75713			N/A
4/25/2019	CADCHF	11:30:00 AM	0.75579	0.75643			N/A
4/25/2019	CADCHF	1:30:00 PM	0.75612	0.75676			N/A
4/25/2019	CADCHF	3:30:00 PM	0.75651	0.75667			N/A
4/25/2019	CADCHF.fx	9:30:00 AM	0.75686	0.75676			N/A
4/25/2019	CADCHF.fx	11:30:00 AM	0.75613	0.75607			N/A
4/25/2019	CADCHF.fx	1:30:00 PM	0.75645	0.75639			N/A
4/25/2019	CADCHF.fx	3:30:00 PM	0.75682	0.75633			N/A
4/25/2019	CADCZK	9:30:00 AM	17.089	17.104			N/A
4/25/2019	CADCZK	11:30:00 AM	17.097	17.112			N/A
4/25/2019	CADCZK	1:30:00 PM	17.092	17.106			N/A
4/25/2019	CADCZK	3:30:00 PM	17.116	17.125			N/A
4/25/2019	CADDDKK	9:30:00 AM	4.962	4.966			N/A
4/25/2019	CADDDKK	11:30:00 AM	4.961	4.965			N/A
4/25/2019	CADDDKK	1:30:00 PM	4.961	4.964			N/A
4/25/2019	CADDDKK	3:30:00 PM	4.968	4.971			N/A
4/25/2019	CADHKD	9:30:00 AM	5.8116	5.8153			N/A
4/25/2019	CADHKD	11:30:00 AM	5.8057	5.8085			N/A
4/25/2019	CADHKD	1:30:00 PM	5.8039	5.8072			N/A
4/25/2019	CADHKD	3:30:00 PM	5.8047	5.8078			N/A
4/25/2019	CADHUF	9:30:00 AM	213.68	213.81			N/A
4/25/2019	CADHUF	11:30:00 AM	214.04	214.19			N/A
4/25/2019	CADHUF	1:30:00 PM	214.03	214.16			N/A
4/25/2019	CADHUF	3:30:00 PM	214.39	214.49			N/A
4/25/2019	CADJPY	9:30:00 AM	82.961	83.021			N/A
4/25/2019	CADJPY	11:30:00 AM	82.83	82.898			N/A
4/25/2019	CADJPY	1:30:00 PM	82.783	82.853			N/A
4/25/2019	CADJPY	3:30:00 PM	82.818	82.862			N/A
4/25/2019	CADJPY.fx	9:30:00 AM	82.995	82.986			N/A
4/25/2019	CADJPY.fx	11:30:00 AM	82.863	82.863			N/A

4/25/2019	CADJPY.fx	1:30:00 PM	82.816	82.819			N/A
4/25/2019	CADJPY.fx	3:30:00 PM	82.848	82.828			N/A
4/25/2019	CADMXN	9:30:00 AM	14.1354	14.147			N/A
4/25/2019	CADMXN	11:30:00 AM	14.1434	14.1526			N/A
4/25/2019	CADMXN	1:30:00 PM	14.1473	14.1572			N/A
4/25/2019	CADMXN	3:30:00 PM	14.1974	14.2057			N/A
4/25/2019	CADNOK	9:30:00 AM	6.4026	6.4072			N/A
4/25/2019	CADNOK	11:30:00 AM	6.4308	6.4311			N/A
4/25/2019	CADNOK	1:30:00 PM	6.4234	6.427			N/A
4/25/2019	CADNOK	3:30:00 PM	6.4371	6.4374			N/A
4/25/2019	CADPLN	9:30:00 AM	2.8533	2.8551			N/A
4/25/2019	CADPLN	11:30:00 AM	2.8545	2.8564			N/A
4/25/2019	CADPLN	1:30:00 PM	2.8541	2.8555			N/A
4/25/2019	CADPLN	3:30:00 PM	2.8586	2.8596			N/A
4/25/2019	CADSEK	9:30:00 AM	6.9843	6.9865			N/A
4/25/2019	CADSEK	11:30:00 AM	7.0754	7.0767			N/A
4/25/2019	CADSEK	1:30:00 PM	7.0774	7.0777			N/A
4/25/2019	CADSEK	3:30:00 PM	7.0785	7.0768			N/A
4/25/2019	CADSGD	9:30:00 AM	1.0094	1.0096			N/A
4/25/2019	CADSGD	11:30:00 AM	1.0095	1.0098			N/A
4/25/2019	CADSGD	1:30:00 PM	1.0091	1.0094			N/A
4/25/2019	CADSGD	3:30:00 PM	1.0104	1.0107			N/A
4/25/2019	CADZAR	9:30:00 AM	10.6954	10.7114			N/A
4/25/2019	CADZAR	11:30:00 AM	10.7182	10.7315			N/A
4/25/2019	CADZAR	1:30:00 PM	10.7445	10.7594			N/A
4/25/2019	CADZAR	3:30:00 PM	10.7547	10.7711			N/A
4/25/2019	CHFCZK	9:30:00 AM	22.584	22.601			N/A
4/25/2019	CHFCZK	11:30:00 AM	22.617	22.632			N/A
4/25/2019	CHFCZK	1:30:00 PM	22.6	22.616			N/A
4/25/2019	CHFCZK	3:30:00 PM	22.621	22.633			N/A
4/25/2019	CHFDKK	9:30:00 AM	6.556	6.559			N/A
4/25/2019	CHFDKK	11:30:00 AM	6.564	6.566			N/A
4/25/2019	CHFDKK	1:30:00 PM	6.559	6.562			N/A
4/25/2019	CHFDKK	3:30:00 PM	6.568	6.569			N/A

4/25/2019	CHFDKK.fx	9:30:00 AM	6.5545	6.5607			N/A
4/25/2019	CHFDKK.fx	11:30:00 AM	6.5629	6.5686			N/A
4/25/2019	CHFDKK.fx	1:30:00 PM	6.5577	6.5636			N/A
4/25/2019	CHFDKK.fx	3:30:00 PM	6.5664	6.5712			N/A
4/25/2019	CHFHKD	9:30:00 AM	7.6813	7.6836			N/A
4/25/2019	CHFHKD	11:30:00 AM	7.6801	7.6824			N/A
4/25/2019	CHFHKD	1:30:00 PM	7.6745	7.6771			N/A
4/25/2019	CHFHKD	3:30:00 PM	7.6733	7.6745			N/A
4/25/2019	CHFHUF	9:30:00 AM	282.32	282.63			N/A
4/25/2019	CHFHUF	11:30:00 AM	283.02	283.4			N/A
4/25/2019	CHFHUF	1:30:00 PM	282.88	283.26			N/A
4/25/2019	CHFHUF	3:30:00 PM	283.3	283.59			N/A
4/25/2019	CHFJPY	9:30:00 AM	109.692	109.75			N/A
4/25/2019	CHFJPY	11:30:00 AM	109.626	109.684			N/A
4/25/2019	CHFJPY	1:30:00 PM	109.522	109.581			N/A
4/25/2019	CHFJPY	3:30:00 PM	109.536	109.552			N/A
4/25/2019	CHFJPY.fx	9:30:00 AM	109.724	109.716			N/A
4/25/2019	CHFJPY.fx	11:30:00 AM	109.659	109.65			N/A
4/25/2019	CHFJPY.fx	1:30:00 PM	109.555	109.547			N/A
4/25/2019	CHFJPY.fx	3:30:00 PM	109.569	109.52			N/A
4/25/2019	CHFMXN	9:30:00 AM	18.6787	18.695			N/A
4/25/2019	CHFMXN	11:30:00 AM	18.7071	18.7204			N/A
4/25/2019	CHFMXN	1:30:00 PM	18.7054	18.7197			N/A
4/25/2019	CHFMXN	3:30:00 PM	18.7661	18.7756			N/A
4/25/2019	CHFNOK	9:30:00 AM	8.4619	8.4688			N/A
4/25/2019	CHFNOK	11:30:00 AM	8.5103	8.5119			N/A
4/25/2019	CHFNOK	1:30:00 PM	8.4929	8.5003			N/A
4/25/2019	CHFNOK	3:30:00 PM	8.511	8.5154			N/A
4/25/2019	CHFNOK.fx	9:30:00 AM	8.46529	8.46531			N/A
4/25/2019	CHFNOK.fx	11:30:00 AM	8.5137	8.50836			N/A
4/25/2019	CHFNOK.fx	1:30:00 PM	8.49637	8.49682			N/A
4/25/2019	CHFNOK.fx	3:30:00 PM	8.51449	8.51224			N/A
4/25/2019	CHFPLN	9:30:00 AM	3.7708	3.7734			N/A
4/25/2019	CHFPLN	11:30:00 AM	3.7765	3.7793			N/A

4/25/2019	CHFPLN	1:30:00 PM	3.7733	3.7762			N/A
4/25/2019	CHFPLN	3:30:00 PM	3.7791	3.7796			N/A
4/25/2019	CHFPLN.fx	9:30:00 AM	3.76846	3.77571			N/A
4/25/2019	CHFPLN.fx	11:30:00 AM	3.77406	3.78161			N/A
4/25/2019	CHFPLN.fx	1:30:00 PM	3.77104	3.77853			N/A
4/25/2019	CHFPLN.fx	3:30:00 PM	3.77671	3.78294			N/A
4/25/2019	CHFSEK	9:30:00 AM	9.2289	9.2335			N/A
4/25/2019	CHFSEK	11:30:00 AM	9.3595	9.3597			N/A
4/25/2019	CHFSEK	1:30:00 PM	9.3568	9.3581			N/A
4/25/2019	CHFSEK	3:30:00 PM	9.3533	9.3549			N/A
4/25/2019	CHFSGD	9:30:00 AM	1.3347	1.3349			N/A
4/25/2019	CHFSGD	11:30:00 AM	1.3361	1.3364			N/A
4/25/2019	CHFSGD	1:30:00 PM	1.3349	1.3353			N/A
4/25/2019	CHFSGD	3:30:00 PM	1.3364	1.3362			N/A
4/25/2019	CHFSGD.fx	9:30:00 AM	1.33498	1.33467			N/A
4/25/2019	CHFSGD.fx	11:30:00 AM	1.33626	1.33619			N/A
4/25/2019	CHFSGD.fx	1:30:00 PM	1.33512	1.33507			N/A
4/25/2019	CHFSGD.fx	3:30:00 PM	1.33653	1.33608			N/A
4/25/2019	CHFZAR	9:30:00 AM	14.1397	14.1492			N/A
4/25/2019	CHFZAR	11:30:00 AM	14.1799	14.1901			N/A
4/25/2019	CHFZAR	1:30:00 PM	14.2099	14.2219			N/A
4/25/2019	CHFZAR	3:30:00 PM	14.2217	14.2297			N/A
4/25/2019	CZKJPY	9:30:00 AM					N/A
4/25/2019	CZKJPY	11:30:00 AM	4.842	4.846			N/A
4/25/2019	CZKJPY	1:30:00 PM	4.842	4.845			N/A
4/25/2019	CZKJPY	3:30:00 PM	4.836	4.84			N/A
4/25/2019	DAX30.i	9:30:00 AM	12330.86	12330.61			N/A
4/25/2019	DAX30.i	11:30:00 AM	12307.36	12308.11			N/A
4/25/2019	DAX30.i	1:30:00 PM	12326.61	12327.11			N/A
4/25/2019	DAX30.i	3:30:00 PM	12319.86	12317.11			N/A
4/25/2019	DJ30.i	9:30:00 AM					N/A
4/25/2019	DJ30.i	11:30:00 AM					N/A
4/25/2019	DJ30.i	1:30:00 PM					N/A
4/25/2019	DJ30.i	3:30:00 PM					N/A

4/25/2019	DKKJPY	9:30:00 AM					N/A
4/25/2019	DKKJPY	11:30:00 AM	16.7	16.72			N/A
4/25/2019	DKKJPY	1:30:00 PM					N/A
4/25/2019	DKKJPY	3:30:00 PM					N/A
4/25/2019	EURAUD	9:30:00 AM	1.58902	1.58935			N/A
4/25/2019	EURAUD	11:30:00 AM	1.5896	1.58898			N/A
4/25/2019	EURAUD	1:30:00 PM	1.58996	1.59035			N/A
4/25/2019	EURAUD	3:30:00 PM	1.5907	1.59003			N/A
4/25/2019	EURAUD.fx	9:30:00 AM	1.58923	1.58913			N/A
4/25/2019	EURAUD.fx	11:30:00 AM	1.58982	1.58876			N/A
4/25/2019	EURAUD.fx	1:30:00 PM	1.59018	1.59014			N/A
4/25/2019	EURAUD.fx	3:30:00 PM	1.5909	1.58981			N/A
4/25/2019	EURCAD	9:30:00 AM	1.50414	1.50481			N/A
4/25/2019	EURCAD	11:30:00 AM	1.50363	1.50439			N/A
4/25/2019	EURCAD	1:30:00 PM	1.5041	1.50479			N/A
4/25/2019	EURCAD	3:30:00 PM	1.50229	1.5022			N/A
4/25/2019	EURCAD.fx	9:30:00 AM	1.50458	1.50437			N/A
4/25/2019	EURCAD.fx	11:30:00 AM	1.50404	1.50398			N/A
4/25/2019	EURCAD.fx	1:30:00 PM	1.50454	1.50435			N/A
4/25/2019	EURCAD.fx	3:30:00 PM	1.5027	1.50177			N/A
4/25/2019	EURCHF	9:30:00 AM	1.13857	1.13868			N/A
4/25/2019	EURCHF	11:30:00 AM	1.13717	1.13723			N/A
4/25/2019	EURCHF	1:30:00 PM	1.13798	1.13807			N/A
4/25/2019	EURCHF	3:30:00 PM	1.13676	1.1366			N/A
4/25/2019	EURCHF.fx	9:30:00 AM	1.13863	1.13863			N/A
4/25/2019	EURCHF.fx	11:30:00 AM	1.13723	1.13715			N/A
4/25/2019	EURCHF.fx	1:30:00 PM	1.13803	1.138			N/A
4/25/2019	EURCHF.fx	3:30:00 PM	1.13676	1.13655			N/A
4/25/2019	EURCZK	9:30:00 AM	25.701	25.741			N/A
4/25/2019	EURCZK	11:30:00 AM	25.705	25.743			N/A
4/25/2019	EURCZK	1:30:00 PM	25.705	25.744			N/A
4/25/2019	EURCZK	3:30:00 PM	25.696	25.735			N/A
4/25/2019	EURDKK	9:30:00 AM	7.4661	7.4673			N/A
4/25/2019	EURDKK	11:30:00 AM					N/A

4/25/2019	EURDKK	1:30:00 PM	7.4653	7.4665			N/A
4/25/2019	EURDKK	3:30:00 PM	7.4644	7.465			N/A
4/25/2019	EURGBP	9:30:00 AM	0.86455	0.86459			N/A
4/25/2019	EURGBP	11:30:00 AM	0.86425	0.86425			N/A
4/25/2019	EURGBP	1:30:00 PM	0.86501	0.8649	5000	5000	N/A
4/25/2019	EURGBP	3:30:00 PM	0.86422	0.86408			N/A
4/25/2019	EURGBP.fx	9:30:00 AM	0.86458	0.86454			N/A
4/25/2019	EURGBP.fx	11:30:00 AM	0.86429	0.86421			N/A
4/25/2019	EURGBP.fx	1:30:00 PM	0.86504	0.86485			N/A
4/25/2019	EURGBP.fx	3:30:00 PM	0.86415	0.86404			N/A
4/25/2019	EURHKD	9:30:00 AM	8.7452	8.7487			N/A
4/25/2019	EURHKD	11:30:00 AM	8.7349	8.7381			N/A
4/25/2019	EURHKD	1:30:00 PM	8.7338	8.7374			N/A
4/25/2019	EURHKD	3:30:00 PM	8.7232	8.7237			N/A
4/25/2019	EURHKD.fx	9:30:00 AM	8.74804	8.74586			N/A
4/25/2019	EURHKD.fx	11:30:00 AM	8.73773	8.73519			N/A
4/25/2019	EURHKD.fx	1:30:00 PM	8.73653	8.73461			N/A
4/25/2019	EURHKD.fx	3:30:00 PM	8.72595	8.72127			N/A
4/25/2019	EURHUF	9:30:00 AM	321.41	322.03			N/A
4/25/2019	EURHUF	11:30:00 AM	321.95	322.41			N/A
4/25/2019	EURHUF	1:30:00 PM	321.83	322.47			N/A
4/25/2019	EURHUF	3:30:00 PM	322.1	322.75			N/A
4/25/2019	EURHUF.fx	9:30:00 AM	321.684	321.743			N/A
4/25/2019	EURHUF.fx	11:30:00 AM	322.231	322.41			N/A
4/25/2019	EURHUF.fx	1:30:00 PM	322.129	322.308			N/A
4/25/2019	EURHUF.fx	3:30:00 PM	322.38	322.479			N/A
4/25/2019	EURJPY	9:30:00 AM	124.919	124.915			N/A
4/25/2019	EURJPY	11:30:00 AM	124.691	124.688			N/A
4/25/2019	EURJPY	1:30:00 PM	124.664	124.657			N/A
4/25/2019	EURJPY	3:30:00 PM	124.519	124.483			N/A
4/25/2019	EURJPY.fx	9:30:00 AM	124.921	124.912			N/A
4/25/2019	EURJPY.fx	11:30:00 AM	124.692	124.684			N/A
4/25/2019	EURJPY.fx	1:30:00 PM	124.667	124.653			N/A
4/25/2019	EURJPY.fx	3:30:00 PM	124.517	124.481			N/A

4/25/2019	EURMXN	9:30:00 AM	21.2704	21.2888			N/A
4/25/2019	EURMXN	11:30:00 AM	21.277	21.2939			N/A
4/25/2019	EURMXN	1:30:00 PM	21.2876	21.3052			N/A
4/25/2019	EURMXN	3:30:00 PM	21.3353	21.3444			N/A
4/25/2019	EURMXN.fx	9:30:00 AM	21.2797	21.2798			N/A
4/25/2019	EURMXN.fx	11:30:00 AM	21.2866	21.2843			N/A
4/25/2019	EURMXN.fx	1:30:00 PM	21.2965	21.2962			N/A
4/25/2019	EURMXN.fx	3:30:00 PM	21.3425	21.3362			N/A
4/25/2019	EURNOK	9:30:00 AM	9.6334	9.6442			N/A
4/25/2019	EURNOK	11:30:00 AM	9.6762	9.6814			N/A
4/25/2019	EURNOK	1:30:00 PM	9.6631	9.6749			N/A
4/25/2019	EURNOK	3:30:00 PM	9.6716	9.681			N/A
4/25/2019	EURNOK.fx	9:30:00 AM	9.63864	9.6388			N/A
4/25/2019	EURNOK.fx	11:30:00 AM	9.68171	9.67616			N/A
4/25/2019	EURNOK.fx	1:30:00 PM	9.66839	9.6696			N/A
4/25/2019	EURNOK.fx	3:30:00 PM	9.67678	9.67588			N/A
4/25/2019	EURNZD	9:30:00 AM	1.69114	1.69181			N/A
4/25/2019	EURNZD	11:30:00 AM	1.69018	1.69013			N/A
4/25/2019	EURNZD	1:30:00 PM	1.68967	1.69044			N/A
4/25/2019	EURNZD	3:30:00 PM	1.68789	1.68799			N/A
4/25/2019	EURNZD.fx	9:30:00 AM	1.69157	1.69135			N/A
4/25/2019	EURNZD.fx	11:30:00 AM	1.69061	1.68969			N/A
4/25/2019	EURNZD.fx	1:30:00 PM	1.69009	1.68999			N/A
4/25/2019	EURNZD.fx	3:30:00 PM	1.6883	1.68759			N/A
4/25/2019	EURPLN	9:30:00 AM	4.2937	4.2963			N/A
4/25/2019	EURPLN	11:30:00 AM	4.2947	4.2976			N/A
4/25/2019	EURPLN	1:30:00 PM	4.2941	4.2973			N/A
4/25/2019	EURPLN	3:30:00 PM	4.2952	4.2968			N/A
4/25/2019	EURPLN.fx	9:30:00 AM	4.29303	4.29685			N/A
4/25/2019	EURPLN.fx	11:30:00 AM	4.29424	4.29822			N/A
4/25/2019	EURPLN.fx	1:30:00 PM	4.29354	4.29782			N/A
4/25/2019	EURPLN.fx	3:30:00 PM	4.29462	4.29773			N/A
4/25/2019	EURRUB	9:30:00 AM					N/A
4/25/2019	EURRUB	11:30:00 AM	71.838	72.267			N/A

4/25/2019	EURRUB	1:30:00 PM	71.819	72.237			N/A
4/25/2019	EURRUB	3:30:00 PM	71.909	72.316			N/A
4/25/2019	EURSEK	9:30:00 AM	10.5104	10.5144			N/A
4/25/2019	EURSEK	11:30:00 AM	10.6466	10.6455			N/A
4/25/2019	EURSEK	1:30:00 PM	10.6504	10.6511			N/A
4/25/2019	EURSEK	3:30:00 PM	10.6332	10.6336			N/A
4/25/2019	EURSEK.fx	9:30:00 AM	10.51215	10.51264			N/A
4/25/2019	EURSEK.fx	11:30:00 AM	10.64831	10.64366			N/A
4/25/2019	EURSEK.fx	1:30:00 PM	10.65194	10.64935			N/A
4/25/2019	EURSEK.fx	3:30:00 PM	10.63436	10.63192			N/A
4/25/2019	EURSGD	9:30:00 AM	1.5197	1.5201			N/A
4/25/2019	EURSGD	11:30:00 AM	1.5192	1.5199			N/A
4/25/2019	EURSGD	1:30:00 PM	1.519	1.5197			N/A
4/25/2019	EURSGD	3:30:00 PM	1.5186	1.5189			N/A
4/25/2019	EURSGD.fx	9:30:00 AM	1.52004	1.51969			N/A
4/25/2019	EURSGD.fx	11:30:00 AM	1.51958	1.5195			N/A
4/25/2019	EURSGD.fx	1:30:00 PM	1.51938	1.51932			N/A
4/25/2019	EURSGD.fx	3:30:00 PM	1.51902	1.51851			N/A
4/25/2019	EURUSD	9:30:00 AM	1.11522	1.1151	10	10	N/A
4/25/2019	EURUSD	11:30:00 AM	1.11379	1.11366	10	10	N/A
4/25/2019	EURUSD	1:30:00 PM	1.1136	1.11349			N/A
4/25/2019	EURUSD	3:30:00 PM	1.11226	1.11178	10	10	N/A
4/25/2019	EURUSD.fx	9:30:00 AM	1.11542	1.1152			N/A
4/25/2019	EURUSD.fx	11:30:00 AM	1.11399	1.11373			N/A
4/25/2019	EURUSD.fx	1:30:00 PM	1.1138	1.11358			N/A
4/25/2019	EURUSD.fx	3:30:00 PM	1.11246	1.11188			N/A
4/25/2019	EURZAR	9:30:00 AM	16.1017	16.1169			N/A
4/25/2019	EURZAR	11:30:00 AM	16.1337	16.147			N/A
4/25/2019	EURZAR	1:30:00 PM	16.1729	16.1903			N/A
4/25/2019	EURZAR	3:30:00 PM	16.1743	16.1846			N/A
4/25/2019	EURZAR.fx	9:30:00 AM	16.10028	16.11763			N/A
4/25/2019	EURZAR.fx	11:30:00 AM	16.13261	16.14775			N/A
4/25/2019	EURZAR.fx	1:30:00 PM	16.17314	16.19056			N/A
4/25/2019	EURZAR.fx	3:30:00 PM	16.17352	16.18482			N/A

4/25/2019	GBPAUD	9:30:00 AM	1.83839	1.83904			N/A
4/25/2019	GBPAUD	11:30:00 AM	1.83996	1.83946			N/A
4/25/2019	GBPAUD	1:30:00 PM	1.83893	1.8393			N/A
4/25/2019	GBPAUD	3:30:00 PM	1.84132	1.84104			N/A
4/25/2019	GBPAUD.fx	9:30:00 AM	1.8388	1.83864			N/A
4/25/2019	GBPAUD.fx	11:30:00 AM	1.84036	1.83906			N/A
4/25/2019	GBPAUD.fx	1:30:00 PM	1.83935	1.83891			N/A
4/25/2019	GBPAUD.fx	3:30:00 PM	1.84172	1.84073			N/A
4/25/2019	GBPCAD	9:30:00 AM	1.73972	1.74046			N/A
4/25/2019	GBPCAD	11:30:00 AM	1.73997	1.74065			N/A
4/25/2019	GBPCAD	1:30:00 PM	1.73905	1.73963			N/A
4/25/2019	GBPCAD	3:30:00 PM	1.73853	1.73852			N/A
4/25/2019	GBPCAD.fx	9:30:00 AM	1.7401	1.74005			N/A
4/25/2019	GBPCAD.fx	11:30:00 AM	1.74036	1.74028			N/A
4/25/2019	GBPCAD.fx	1:30:00 PM	1.73946	1.73924			N/A
4/25/2019	GBPCAD.fx	3:30:00 PM	1.7389	1.73816			N/A
4/25/2019	GBPCHF	9:30:00 AM	1.31679	1.31711			N/A
4/25/2019	GBPCHF	11:30:00 AM	1.31569	1.31595			N/A
4/25/2019	GBPCHF	1:30:00 PM	1.31565	1.31578			N/A
4/25/2019	GBPCHF	3:30:00 PM	1.31538	1.31545			N/A
4/25/2019	GBPCHF.fx	9:30:00 AM	1.31697	1.31688			N/A
4/25/2019	GBPCHF.fx	11:30:00 AM	1.31588	1.31574			N/A
4/25/2019	GBPCHF.fx	1:30:00 PM	1.31585	1.31558			N/A
4/25/2019	GBPCHF.fx	3:30:00 PM	1.31555	1.31529			N/A
4/25/2019	GBPCZK	9:30:00 AM	29.738	29.76			N/A
4/25/2019	GBPCZK	11:30:00 AM	29.756	29.772			N/A
4/25/2019	GBPCZK	1:30:00 PM	29.733	29.747			N/A
4/25/2019	GBPCZK	3:30:00 PM	29.751	29.765			N/A
4/25/2019	GBPDKK	9:30:00 AM	8.631	8.642			N/A
4/25/2019	GBPDKK	11:30:00 AM	8.635	8.645			N/A
4/25/2019	GBPDKK	1:30:00 PM	8.628	8.637			N/A
4/25/2019	GBPDKK	3:30:00 PM	8.637	8.645			N/A
4/25/2019	GBPDKK.fx	9:30:00 AM	8.6301	8.6426			N/A
4/25/2019	GBPDKK.fx	11:30:00 AM	8.6333	8.6453			N/A

4/25/2019	GBPDKK.fx	1:30:00 PM	8.6263	8.6374			N/A
4/25/2019	GBPDKK.fx	3:30:00 PM	8.6349	8.6472			N/A
4/25/2019	GBPHKD	9:30:00 AM	10.1133	10.1173			N/A
4/25/2019	GBPHKD	11:30:00 AM	10.1031	10.1087			N/A
4/25/2019	GBPHKD	1:30:00 PM	10.0946	10.0986			N/A
4/25/2019	GBPHKD	3:30:00 PM	10.0908	10.0937			N/A
4/25/2019	GBPHUF	9:30:00 AM	371.75	372.12			N/A
4/25/2019	GBPHUF	11:30:00 AM	372.37	372.81			N/A
4/25/2019	GBPHUF	1:30:00 PM	372.18	372.57			N/A
4/25/2019	GBPHUF	3:30:00 PM	372.6	372.93			N/A
4/25/2019	GBPJPY	9:30:00 AM	144.434	144.46			N/A
4/25/2019	GBPJPY	11:30:00 AM	144.223	144.259			N/A
4/25/2019	GBPJPY	1:30:00 PM	144.075	144.096			N/A
4/25/2019	GBPJPY	3:30:00 PM	144.04	144.056			N/A
4/25/2019	GBPJPY.fx	9:30:00 AM	144.453	144.441			N/A
4/25/2019	GBPJPY.fx	11:30:00 AM	144.242	144.24			N/A
4/25/2019	GBPJPY.fx	1:30:00 PM	144.095	144.076			N/A
4/25/2019	GBPJPY.fx	3:30:00 PM	144.058	144.038			N/A
4/25/2019	GBPMXN	9:30:00 AM	24.5976	24.6121			N/A
4/25/2019	GBPMXN	11:30:00 AM	24.6149	24.6263			N/A
4/25/2019	GBPMXN	1:30:00 PM	24.609	24.6197			N/A
4/25/2019	GBPMXN	3:30:00 PM	24.6825	24.6918			N/A
4/25/2019	GBPNOK	9:30:00 AM	11.1431	11.1537			N/A
4/25/2019	GBPNOK	11:30:00 AM	11.1967	11.2015			N/A
4/25/2019	GBPNOK	1:30:00 PM	11.1745	11.1827			N/A
4/25/2019	GBPNOK	3:30:00 PM	11.1941	11.2022			N/A
4/25/2019	GBPNOK.fx	9:30:00 AM	11.14791	11.1488			N/A
4/25/2019	GBPNOK.fx	11:30:00 AM	11.20184	11.19658			N/A
4/25/2019	GBPNOK.fx	1:30:00 PM	11.17932	11.1778			N/A
4/25/2019	GBPNOK.fx	3:30:00 PM	11.19874	11.1984			N/A
4/25/2019	GBPNZD	9:30:00 AM	1.95601	1.95671			N/A
4/25/2019	GBPNZD	11:30:00 AM	1.95584	1.95547			N/A
4/25/2019	GBPNZD	1:30:00 PM	1.95372	1.95398			N/A
4/25/2019	GBPNZD	3:30:00 PM	1.95358	1.95355			N/A

4/25/2019	GBPNZD.fx	9:30:00 AM	1.95641	1.95631			N/A
4/25/2019	GBPNZD.fx	11:30:00 AM	1.95621	1.95507			N/A
4/25/2019	GBPNZD.fx	1:30:00 PM	1.95409	1.9536			N/A
4/25/2019	GBPNZD.fx	3:30:00 PM	1.95392	1.95327			N/A
4/25/2019	GBPPLN	9:30:00 AM	4.967	4.9685			N/A
4/25/2019	GBPPLN	11:30:00 AM	4.9706	4.9716			N/A
4/25/2019	GBPPLN	1:30:00 PM	4.9662	4.9666			N/A
4/25/2019	GBPPLN	3:30:00 PM	4.9713	4.9716			N/A
4/25/2019	GBPPLN.fx	9:30:00 AM	4.96474	4.97063			N/A
4/25/2019	GBPPLN.fx	11:30:00 AM	4.96865	4.97369			N/A
4/25/2019	GBPPLN.fx	1:30:00 PM	4.96413	4.96873			N/A
4/25/2019	GBPPLN.fx	3:30:00 PM	4.96922	4.97467			N/A
4/25/2019	GBPSEK	9:30:00 AM	12.1556	12.1633			N/A
4/25/2019	GBPSEK	11:30:00 AM	12.3166	12.3203			N/A
4/25/2019	GBPSEK	1:30:00 PM	12.3136	12.3143			N/A
4/25/2019	GBPSEK	3:30:00 PM	12.3046	12.3087			N/A
4/25/2019	GBPSEK.fx	9:30:00 AM	12.15225	12.16675			N/A
4/25/2019	GBPSEK.fx	11:30:00 AM	12.31293	12.32398			N/A
4/25/2019	GBPSEK.fx	1:30:00 PM	12.30996	12.31799			N/A
4/25/2019	GBPSEK.fx	3:30:00 PM	12.29997	12.31232			N/A
4/25/2019	GBPSGD	9:30:00 AM	1.7577	1.7581			N/A
4/25/2019	GBPSGD	11:30:00 AM	1.758	1.7586			N/A
4/25/2019	GBPSGD	1:30:00 PM	1.7563	1.7569			N/A
4/25/2019	GBPSGD	3:30:00 PM	1.7575	1.7577			N/A
4/25/2019	GBPSGD.fx	9:30:00 AM	1.75589	1.75991			N/A
4/25/2019	GBPSGD.fx	11:30:00 AM	1.75615	1.76043			N/A
4/25/2019	GBPSGD.fx	1:30:00 PM	1.75452	1.75866			N/A
4/25/2019	GBPSGD.fx	3:30:00 PM	1.75565	1.75961			N/A
4/25/2019	GBPUSD	9:30:00 AM	1.29004	1.28992			N/A
4/25/2019	GBPUSD	11:30:00 AM	1.28886	1.2888			N/A
4/25/2019	GBPUSD	1:30:00 PM	1.2876	1.28748			N/A
4/25/2019	GBPUSD	3:30:00 PM	1.28732	1.28687			N/A
4/25/2019	GBPUSD.fx	9:30:00 AM	1.29009	1.28986			N/A
4/25/2019	GBPUSD.fx	11:30:00 AM	1.28891	1.28874			N/A

4/25/2019	GBPUSD.fx	1:30:00 PM	1.28765	1.28742			N/A
4/25/2019	GBPUSD.fx	3:30:00 PM	1.28736	1.28683			N/A
4/25/2019	GBPZAR	9:30:00 AM	18.6197	18.6444			N/A
4/25/2019	GBPZAR	11:30:00 AM	18.6661	18.686			N/A
4/25/2019	GBPZAR	1:30:00 PM	18.6961	18.7197			N/A
4/25/2019	GBPZAR	3:30:00 PM	18.7132	18.7343			N/A
4/25/2019	GBPZAR.fx	9:30:00 AM	18.6263	18.6374			N/A
4/25/2019	GBPZAR.fx	11:30:00 AM	18.6735	18.6782			N/A
4/25/2019	GBPZAR.fx	1:30:00 PM	18.7035	18.7118			N/A
4/25/2019	GBPZAR.fx	3:30:00 PM	18.72	18.7265			N/A
4/25/2019	GOLD	9:30:00 AM	1276.11	1276.32			N/A
4/25/2019	GOLD	11:30:00 AM	1277.35	1277.27			N/A
4/25/2019	GOLD	1:30:00 PM	1277.45	1277.68			N/A
4/25/2019	GOLD	3:30:00 PM	1277.93	1276.9			N/A
4/25/2019	HKDJPY	9:30:00 AM	14.27	14.28			N/A
4/25/2019	HKDJPY	11:30:00 AM	14.26	14.27			N/A
4/25/2019	HKDJPY	1:30:00 PM					N/A
4/25/2019	HKDJPY	3:30:00 PM	14.26	14.27			N/A
4/25/2019	HKDJPY.fx	9:30:00 AM	14.267	14.273			N/A
4/25/2019	HKDJPY.fx	11:30:00 AM	14.259	14.266			N/A
4/25/2019	HKDJPY.fx	1:30:00 PM	14.256	14.264			N/A
4/25/2019	HKDJPY.fx	3:30:00 PM	14.259	14.264			N/A
4/25/2019	HUFJPY	9:30:00 AM	0.3884	0.3887			N/A
4/25/2019	HUFJPY	11:30:00 AM	0.387	0.3873			N/A
4/25/2019	HUFJPY	1:30:00 PM	0.3868	0.3871			N/A
4/25/2019	HUFJPY	3:30:00 PM	0.3863	0.3866			N/A
4/25/2019	JP225.i	9:30:00 AM	22307.92	22324.59			N/A
4/25/2019	JP225.i	11:30:00 AM					N/A
4/25/2019	JP225.i	1:30:00 PM	22274.59	22289.59			N/A
4/25/2019	JP225.i	3:30:00 PM	22267.09	22274.59			N/A
4/25/2019	MXNJPY	9:30:00 AM	5.86	5.88			N/A
4/25/2019	MXNJPY	11:30:00 AM	5.85	5.86			N/A
4/25/2019	MXNJPY	1:30:00 PM	5.84	5.85			N/A
4/25/2019	MXNJPY	3:30:00 PM	5.82	5.83			N/A

4/25/2019	NASDAQ.i	9:30:00 AM					N/A
4/25/2019	NASDAQ.i	11:30:00 AM					N/A
4/25/2019	NASDAQ.i	1:30:00 PM					N/A
4/25/2019	NASDAQ.i	3:30:00 PM					N/A
4/25/2019	NOKJPY	9:30:00 AM	12.94	12.97			N/A
4/25/2019	NOKJPY	11:30:00 AM	12.86	12.89			N/A
4/25/2019	NOKJPY	1:30:00 PM	12.88	12.91			N/A
4/25/2019	NOKJPY	3:30:00 PM	12.85	12.88			N/A
4/25/2019	NOKJPY.fx	9:30:00 AM	12.953	12.958			N/A
4/25/2019	NOKJPY.fx	11:30:00 AM	12.878	12.878			N/A
4/25/2019	NOKJPY.fx	1:30:00 PM	12.885	12.891			N/A
4/25/2019	NOKJPY.fx	3:30:00 PM	12.86	12.865			N/A
4/25/2019	NZDCAD	9:30:00 AM	0.88907	0.88977			N/A
4/25/2019	NZDCAD	11:30:00 AM	0.88971	0.89002			N/A
4/25/2019	NZDCAD	1:30:00 PM	0.8899	0.89049			N/A
4/25/2019	NZDCAD	3:30:00 PM	0.88974	0.89001			N/A
4/25/2019	NZDCAD.fx	9:30:00 AM	0.88942	0.88941			N/A
4/25/2019	NZDCAD.fx	11:30:00 AM	0.89005	0.88968			N/A
4/25/2019	NZDCAD.fx	1:30:00 PM	0.89023	0.89016			N/A
4/25/2019	NZDCAD.fx	3:30:00 PM	0.89005	0.8897			N/A
4/25/2019	NZDCHF	9:30:00 AM	0.67283	0.67346			N/A
4/25/2019	NZDCHF	11:30:00 AM	0.67266	0.67307			N/A
4/25/2019	NZDCHF	1:30:00 PM	0.67301	0.67371			N/A
4/25/2019	NZDCHF	3:30:00 PM	0.67318	0.67357			N/A
4/25/2019	NZDCHF.fx	9:30:00 AM	0.67316	0.6731			N/A
4/25/2019	NZDCHF.fx	11:30:00 AM	0.673	0.67271			N/A
4/25/2019	NZDCHF.fx	1:30:00 PM	0.67335	0.67336			N/A
4/25/2019	NZDCHF.fx	3:30:00 PM	0.67348	0.67322			N/A
4/25/2019	NZDCZK	9:30:00 AM	15.2	15.21			N/A
4/25/2019	NZDCZK	11:30:00 AM	15.216	15.223			N/A
4/25/2019	NZDCZK	1:30:00 PM	15.214	15.225			N/A
4/25/2019	NZDCZK	3:30:00 PM	15.231	15.236			N/A
4/25/2019	NZDDKK	9:30:00 AM					N/A
4/25/2019	NZDDKK	11:30:00 AM	4.415	4.417			N/A

4/25/2019	NZDDKK	1:30:00 PM	4.416	4.419			N/A
4/25/2019	NZDDKK	3:30:00 PM	4.42	4.423			N/A
4/25/2019	NZDHKD	9:30:00 AM	5.1697	5.1712			N/A
4/25/2019	NZDHKD	11:30:00 AM	5.1669	5.1661			N/A
4/25/2019	NZDHKD	1:30:00 PM	5.1661	5.1681			N/A
4/25/2019	NZDHKD	3:30:00 PM	5.1653	5.1665			N/A
4/25/2019	NZDHUF	9:30:00 AM	189.97	190.22			N/A
4/25/2019	NZDHUF	11:30:00 AM	190.41	190.61			N/A
4/25/2019	NZDHUF	1:30:00 PM	190.42	190.7			N/A
4/25/2019	NZDHUF	3:30:00 PM	190.69	190.91			N/A
4/25/2019	NZDJPY	9:30:00 AM	73.779	73.843			N/A
4/25/2019	NZDJPY	11:30:00 AM	73.716	73.746			N/A
4/25/2019	NZDJPY	1:30:00 PM	73.691	73.751			N/A
4/25/2019	NZDJPY	3:30:00 PM	73.689	73.724			N/A
4/25/2019	NZDJPY.fx	9:30:00 AM	73.811	73.81			N/A
4/25/2019	NZDJPY.fx	11:30:00 AM	73.749	73.713			N/A
4/25/2019	NZDJPY.fx	1:30:00 PM	73.723	73.719			N/A
4/25/2019	NZDJPY.fx	3:30:00 PM	73.716	73.694			N/A
4/25/2019	NZDMXN	9:30:00 AM	12.5726	12.5777			N/A
4/25/2019	NZDMXN	11:30:00 AM	12.5869	12.586			N/A
4/25/2019	NZDMXN	1:30:00 PM	12.5936	12.5981			N/A
4/25/2019	NZDMXN	3:30:00 PM	12.635	12.6367			N/A
4/25/2019	NZDNOK	9:30:00 AM	5.6942	5.6981			N/A
4/25/2019	NZDNOK	11:30:00 AM	5.7232	5.7203			N/A
4/25/2019	NZDNOK	1:30:00 PM	5.7172	5.7201			N/A
4/25/2019	NZDNOK	3:30:00 PM	5.7266	5.7283			N/A
4/25/2019	NZDPLN	9:30:00 AM	2.5378	2.5392			N/A
4/25/2019	NZDPLN	11:30:00 AM	2.5397	2.5406			N/A
4/25/2019	NZDPLN	1:30:00 PM	2.5403	2.5413			N/A
4/25/2019	NZDPLN	3:30:00 PM	2.5434	2.5444			N/A
4/25/2019	NZDSEK	9:30:00 AM	6.2093	6.2155			N/A
4/25/2019	NZDSEK	11:30:00 AM	6.2944	6.2958			N/A
4/25/2019	NZDSEK	1:30:00 PM	6.2968	6.3012			N/A
4/25/2019	NZDSEK	3:30:00 PM	6.2957	6.2983			N/A

4/25/2019	NZDSGD	9:30:00 AM	0.8983	0.8989			N/A
4/25/2019	NZDSGD	11:30:00 AM	0.899	0.8992			N/A
4/25/2019	NZDSGD	1:30:00 PM	0.8988	0.8993			N/A
4/25/2019	NZDSGD	3:30:00 PM	0.8995	0.8999			N/A
4/25/2019	NZDSGD.fx	9:30:00 AM	0.89832	0.8988			N/A
4/25/2019	NZDSGD.fx	11:30:00 AM	0.89899	0.89916			N/A
4/25/2019	NZDSGD.fx	1:30:00 PM	0.89876	0.89926			N/A
4/25/2019	NZDSGD.fx	3:30:00 PM	0.89948	0.8999			N/A
4/25/2019	NZDUSD	9:30:00 AM	0.65927	0.65939			N/A
4/25/2019	NZDUSD	11:30:00 AM	0.65914	0.65883			N/A
4/25/2019	NZDUSD	1:30:00 PM	0.65894	0.65894			N/A
4/25/2019	NZDUSD	3:30:00 PM	0.65893	0.65872			N/A
4/25/2019	NZDUSD.fx	9:30:00 AM	0.65935	0.6594			N/A
4/25/2019	NZDUSD.fx	11:30:00 AM	0.65921	0.65884			N/A
4/25/2019	NZDUSD.fx	1:30:00 PM	0.65901	0.65896			N/A
4/25/2019	NZDUSD.fx	3:30:00 PM	0.65896	0.65875			N/A
4/25/2019	NZDZAR	9:30:00 AM	9.5112	9.5263			N/A
4/25/2019	NZDZAR	11:30:00 AM	9.5362	9.5478			N/A
4/25/2019	NZDZAR	1:30:00 PM	9.5621	9.577			N/A
4/25/2019	NZDZAR	3:30:00 PM	9.5693	9.5818			N/A
4/25/2019	SEKJPY	9:30:00 AM					N/A
4/25/2019	SEKJPY	11:30:00 AM	11.71	11.72			N/A
4/25/2019	SEKJPY	1:30:00 PM	11.69	11.71			N/A
4/25/2019	SEKJPY	3:30:00 PM	11.71	11.71			N/A
4/25/2019	SEKJPY.fx	9:30:00 AM	11.873	11.89			N/A
4/25/2019	SEKJPY.fx	11:30:00 AM	11.704	11.719			N/A
4/25/2019	SEKJPY.fx	1:30:00 PM	11.697	11.711			N/A
4/25/2019	SEKJPY.fx	3:30:00 PM	11.7	11.715			N/A
4/25/2019	SGDJPY	9:30:00 AM	82.16	82.12			N/A
4/25/2019	SGDJPY	11:30:00 AM	81.97	82			N/A
4/25/2019	SGDJPY	1:30:00 PM	82.02	82			N/A
4/25/2019	SGDJPY	3:30:00 PM	81.9	81.91			N/A
4/25/2019	SILVER	9:30:00 AM	14.72	15.09			N/A
4/25/2019	SILVER	11:30:00 AM	14.73	15.11			N/A

4/25/2019	SILVER	1:30:00 PM	14.69	15.08			N/A
4/25/2019	SILVER	3:30:00 PM	14.73	15.1			N/A
4/25/2019	SPX500.i	9:30:00 AM	2932.04	2933.09			N/A
4/25/2019	SPX500.i	11:30:00 AM					N/A
4/25/2019	SPX500.i	1:30:00 PM	2929.54	2930.09			N/A
4/25/2019	SPX500.i	3:30:00 PM	2932.79	2931.84			N/A
4/25/2019	UK100.i	9:30:00 AM	7493.04	7495.04			N/A
4/25/2019	UK100.i	11:30:00 AM	7453.38	7452.79			N/A
4/25/2019	UK100.i	1:30:00 PM	7459.6	7460.1			N/A
4/25/2019	UK100.i	3:30:00 PM	7442.84	7442.92			N/A
4/25/2019	USDCAD	9:30:00 AM	1.34897	1.34898			N/A
4/25/2019	USDCAD	11:30:00 AM	1.35052	1.35036			N/A
4/25/2019	USDCAD	1:30:00 PM	1.35098	1.35099			N/A
4/25/2019	USDCAD	3:30:00 PM	1.35085	1.35077			N/A
4/25/2019	USDCAD.fx	9:30:00 AM	1.349	1.34894			N/A
4/25/2019	USDCAD.fx	11:30:00 AM	1.35055	1.35033			N/A
4/25/2019	USDCAD.fx	1:30:00 PM	1.35101	1.35095			N/A
4/25/2019	USDCAD.fx	3:30:00 PM	1.35087	1.35076			N/A
4/25/2019	USDCHF	9:30:00 AM	1.02093	1.02084			N/A
4/25/2019	USDCHF	11:30:00 AM	1.02104	1.02091			N/A
4/25/2019	USDCHF	1:30:00 PM	1.02186	1.02184			N/A
4/25/2019	USDCHF	3:30:00 PM	1.02224	1.02167			N/A
4/25/2019	USDCHF.fx	9:30:00 AM	1.02097	1.02078			N/A
4/25/2019	USDCHF.fx	11:30:00 AM	1.02109	1.02084			N/A
4/25/2019	USDCHF.fx	1:30:00 PM	1.02191	1.02177			N/A
4/25/2019	USDCHF.fx	3:30:00 PM	1.02226	1.02161			N/A
4/25/2019	USDCZK	9:30:00 AM	23.072	23.091			N/A
4/25/2019	USDCZK	11:30:00 AM	23.107	23.123			N/A
4/25/2019	USDCZK	1:30:00 PM	23.109	23.127			N/A
4/25/2019	USDCZK	3:30:00 PM	23.137	23.146			N/A
4/25/2019	USDCZK.fx	9:30:00 AM	23.0816	23.081			N/A
4/25/2019	USDCZK.fx	11:30:00 AM	23.1157	23.1147			N/A
4/25/2019	USDCZK.fx	1:30:00 PM	23.117	23.1182			N/A
4/25/2019	USDCZK.fx	3:30:00 PM	23.144	23.14			N/A

4/25/2019	USDDKK	9:30:00 AM	6.6943	6.6968			N/A
4/25/2019	USDDKK	11:30:00 AM	6.7027	6.7054			N/A
4/25/2019	USDDKK	1:30:00 PM	6.7033	6.706			N/A
4/25/2019	USDDKK	3:30:00 PM	6.7141	6.7144			N/A
4/25/2019	USDDKK.fx	9:30:00 AM	6.69469	6.69479			N/A
4/25/2019	USDDKK.fx	11:30:00 AM	6.70334	6.70317			N/A
4/25/2019	USDDKK.fx	1:30:00 PM	6.70379	6.704			N/A
4/25/2019	USDDKK.fx	3:30:00 PM	6.71446	6.71231			N/A
4/25/2019	USDHKD	9:30:00 AM	7.8424	7.8426			N/A
4/25/2019	USDHKD	11:30:00 AM	7.8426	7.8424			N/A
4/25/2019	USDHKD	1:30:00 PM	7.8433	7.8434			N/A
4/25/2019	USDHKD	3:30:00 PM	7.8434	7.8433			N/A
4/25/2019	USDHKD.fx	9:30:00 AM	7.84231	7.84287			N/A
4/25/2019	USDHKD.fx	11:30:00 AM					N/A
4/25/2019	USDHKD.fx	1:30:00 PM	7.84348	7.84404			N/A
4/25/2019	USDHKD.fx	3:30:00 PM	7.84332	7.84388			N/A
4/25/2019	USDHUF	9:30:00 AM	288.23	288.62			N/A
4/25/2019	USDHUF	11:30:00 AM	289.17	289.56			N/A
4/25/2019	USDHUF	1:30:00 PM	289.11	289.52			N/A
4/25/2019	USDHUF	3:30:00 PM	289.72	290.04			N/A
4/25/2019	USDHUF.fx	9:30:00 AM	288.427	288.411			N/A
4/25/2019	USDHUF.fx	11:30:00 AM	289.373	289.355			N/A
4/25/2019	USDHUF.fx	1:30:00 PM	289.323	289.305			N/A
4/25/2019	USDHUF.fx	3:30:00 PM	289.914	289.886			N/A
4/25/2019	USDINR	9:30:00 AM	64.96	74.94			N/A
4/25/2019	USDINR	11:30:00 AM	65.15	75.14			N/A
4/25/2019	USDINR	1:30:00 PM					N/A
4/25/2019	USDINR	3:30:00 PM					N/A
4/25/2019	USDJPY	9:30:00 AM	111.92	111.917			N/A
4/25/2019	USDJPY	11:30:00 AM	111.864	111.868			N/A
4/25/2019	USDJPY	1:30:00 PM	111.85	111.863			N/A
4/25/2019	USDJPY	3:30:00 PM	111.881	111.858			N/A
4/25/2019	USDJPY.fx	9:30:00 AM	111.926	111.91			N/A
4/25/2019	USDJPY.fx	11:30:00 AM	111.871	111.86			N/A

4/25/2019	USDJPY.fx	1:30:00 PM	111.856	111.855			N/A
4/25/2019	USDJPY.fx	3:30:00 PM	111.885	111.852			N/A
4/25/2019	USDMXN	9:30:00 AM	19.076	19.083			N/A
4/25/2019	USDMXN	11:30:00 AM	19.107	19.112			N/A
4/25/2019	USDMXN	1:30:00 PM	19.12	19.124			N/A
4/25/2019	USDMXN	3:30:00 PM	19.186	19.19			N/A
4/25/2019	USDMXN.fx	9:30:00 AM	19.0801	19.0794			N/A
4/25/2019	USDMXN.fx	11:30:00 AM	19.1114	19.1074			N/A
4/25/2019	USDMXN.fx	1:30:00 PM	19.1229	19.1201			N/A
4/25/2019	USDMXN.fx	3:30:00 PM	19.1891	19.1855			N/A
4/25/2019	USDNOK	9:30:00 AM	8.639	8.6462			N/A
4/25/2019	USDNOK	11:30:00 AM	8.6879	8.6924			N/A
4/25/2019	USDNOK	1:30:00 PM	8.6787	8.6856			N/A
4/25/2019	USDNOK	3:30:00 PM	8.6975	8.7019			N/A
4/25/2019	USDNOK.fx	9:30:00 AM	8.64273	8.64176			N/A
4/25/2019	USDNOK.fx	11:30:00 AM	8.69243	8.6878			N/A
4/25/2019	USDNOK.fx	1:30:00 PM	8.68258	8.68124			N/A
4/25/2019	USDNOK.fx	3:30:00 PM	8.7013	8.69822			N/A
4/25/2019	USDPLN	9:30:00 AM	3.8501	3.8518			N/A
4/25/2019	USDPLN	11:30:00 AM	3.8567	3.8572			N/A
4/25/2019	USDPLN	1:30:00 PM	3.8568	3.8575			N/A
4/25/2019	USDPLN	3:30:00 PM	3.8631	3.8619			N/A
4/25/2019	USDPLN.fx	9:30:00 AM	3.84936	3.85251			N/A
4/25/2019	USDPLN.fx	11:30:00 AM	3.85614	3.85805			N/A
4/25/2019	USDPLN.fx	1:30:00 PM	3.85593	3.85831			N/A
4/25/2019	USDPLN.fx	3:30:00 PM	3.86187	3.86402			N/A
4/25/2019	USDRUB	9:30:00 AM					N/A
4/25/2019	USDRUB	11:30:00 AM	64.627	65.001			N/A
4/25/2019	USDRUB	1:30:00 PM	64.62	64.98			N/A
4/25/2019	USDRUB	3:30:00 PM	64.766	65.155			N/A
4/25/2019	USDSEK	9:30:00 AM	9.4238	9.4263			N/A
4/25/2019	USDSEK	11:30:00 AM	9.5566	9.5583			N/A
4/25/2019	USDSEK	1:30:00 PM	9.5631	9.5624			N/A
4/25/2019	USDSEK	3:30:00 PM	9.5633	9.5608			N/A

4/25/2019	USDSEK.fx	9:30:00 AM	9.42721	9.42427			N/A
4/25/2019	USDSEK.fx	11:30:00 AM	9.55913	9.55642			N/A
4/25/2019	USDSEK.fx	1:30:00 PM	9.5659	9.56055			N/A
4/25/2019	USDSEK.fx	3:30:00 PM	9.56555	9.5588			N/A
4/25/2019	USDSGD	9:30:00 AM	1.3626	1.3629			N/A
4/25/2019	USDSGD	11:30:00 AM	1.3642	1.3643			N/A
4/25/2019	USDSGD	1:30:00 PM	1.3642	1.3644			N/A
4/25/2019	USDSGD	3:30:00 PM	1.3655	1.3658			N/A
4/25/2019	USDSGD.fx	9:30:00 AM	1.36252	1.36286			N/A
4/25/2019	USDSGD.fx	11:30:00 AM	1.3642	1.36435			N/A
4/25/2019	USDSGD.fx	1:30:00 PM	1.36412	1.36443			N/A
4/25/2019	USDSGD.fx	3:30:00 PM	1.36541	1.36576			N/A
4/25/2019	USDZAR	9:30:00 AM	14.436	14.4503			N/A
4/25/2019	USDZAR	11:30:00 AM	14.4855	14.496			N/A
4/25/2019	USDZAR	1:30:00 PM	14.522	14.5373			N/A
4/25/2019	USDZAR	3:30:00 PM	14.54	14.555			N/A
4/25/2019	USDZAR.fx	9:30:00 AM	14.43997	14.44442			N/A
4/25/2019	USDZAR.fx	11:30:00 AM	14.49227	14.49032			N/A
4/25/2019	USDZAR.fx	1:30:00 PM	14.52802	14.53185			N/A
4/25/2019	USDZAR.fx	3:30:00 PM	14.54651	14.54918			N/A
4/25/2019	XAUUSD	9:30:00 AM	1276.13	1276.32			N/A
4/25/2019	XAUUSD	11:30:00 AM	1277.34	1277.27			N/A
4/25/2019	XAUUSD	1:30:00 PM	1277.45	1277.67			N/A
4/25/2019	XAUUSD	3:30:00 PM	1277.93	1276.87			N/A
4/25/2019	ZARJPY	9:30:00 AM	7.72	7.75			N/A
4/25/2019	ZARJPY	11:30:00 AM	7.7	7.73			N/A
4/25/2019	ZARJPY	1:30:00 PM	7.67	7.69			N/A
4/25/2019	ZARJPY	3:30:00 PM	7.66	7.68			N/A
4/25/2019	ZARJPY.fx	9:30:00 AM	7.74	7.743			N/A
4/25/2019	ZARJPY.fx	11:30:00 AM	7.71	7.713			N/A
4/25/2019	ZARJPY.fx	1:30:00 PM	7.689	7.693			N/A
4/25/2019	ZARJPY.fx	3:30:00 PM	7.68	7.683			N/A
4/26/2019	#AA	9:30:00 AM					N/A
4/26/2019	#AA	11:30:00 AM					N/A

4/26/2019	#AA	1:30:00 PM					N/A
4/26/2019	#AA	3:30:00 PM					N/A
4/26/2019	#AABA	9:30:00 AM					N/A
4/26/2019	#AABA	11:30:00 AM					N/A
4/26/2019	#AABA	1:30:00 PM					N/A
4/26/2019	#AABA	3:30:00 PM					N/A
4/26/2019	#AAL	9:30:00 AM					N/A
4/26/2019	#AAL	11:30:00 AM					N/A
4/26/2019	#AAL	1:30:00 PM					N/A
4/26/2019	#AAL	3:30:00 PM	32.03	32.9			N/A
4/26/2019	#AAPL	9:30:00 AM					N/A
4/26/2019	#AAPL	11:30:00 AM					N/A
4/26/2019	#AAPL	1:30:00 PM					N/A
4/26/2019	#AAPL	3:30:00 PM					N/A
4/26/2019	#ADBE	9:30:00 AM					N/A
4/26/2019	#ADBE	11:30:00 AM					N/A
4/26/2019	#ADBE	1:30:00 PM					N/A
4/26/2019	#ADBE	3:30:00 PM					N/A
4/26/2019	#AIG	9:30:00 AM					N/A
4/26/2019	#AIG	11:30:00 AM					N/A
4/26/2019	#AIG	1:30:00 PM					N/A
4/26/2019	#AIG	3:30:00 PM					N/A
4/26/2019	#AMD	9:30:00 AM					N/A
4/26/2019	#AMD	11:30:00 AM					N/A
4/26/2019	#AMD	1:30:00 PM					N/A
4/26/2019	#AMD	3:30:00 PM					N/A
4/26/2019	#AMZN	9:30:00 AM					N/A
4/26/2019	#AMZN	11:30:00 AM					N/A
4/26/2019	#AMZN	1:30:00 PM					N/A
4/26/2019	#AMZN	3:30:00 PM					N/A
4/26/2019	#AXP	9:30:00 AM					N/A
4/26/2019	#AXP	11:30:00 AM					N/A
4/26/2019	#AXP	1:30:00 PM					N/A
4/26/2019	#AXP	3:30:00 PM					N/A

4/26/2019	#BA	9:30:00 AM					N/A
4/26/2019	#BA	11:30:00 AM					N/A
4/26/2019	#BA	1:30:00 PM					N/A
4/26/2019	#BA	3:30:00 PM					N/A
4/26/2019	#BABA	9:30:00 AM					N/A
4/26/2019	#BABA	11:30:00 AM					N/A
4/26/2019	#BABA	1:30:00 PM					N/A
4/26/2019	#BABA	3:30:00 PM					N/A
4/26/2019	#BAC	9:30:00 AM					N/A
4/26/2019	#BAC	11:30:00 AM					N/A
4/26/2019	#BAC	1:30:00 PM					N/A
4/26/2019	#BAC	3:30:00 PM					N/A
4/26/2019	#BARC	9:30:00 AM					N/A
4/26/2019	#BARC	11:30:00 AM					N/A
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4/26/2019	#BARC	3:30:00 PM					N/A
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4/26/2019	#UL	9:30:00 AM					N/A
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4/26/2019	#UL	1:30:00 PM					N/A
4/26/2019	#UL	3:30:00 PM					N/A
4/26/2019	#UPS	9:30:00 AM					N/A
4/26/2019	#UPS	11:30:00 AM					N/A
4/26/2019	#UPS	1:30:00 PM					N/A
4/26/2019	#UPS	3:30:00 PM					N/A
4/26/2019	#UTX	9:30:00 AM					N/A
4/26/2019	#UTX	11:30:00 AM					N/A
4/26/2019	#UTX	1:30:00 PM					N/A
4/26/2019	#UTX	3:30:00 PM					N/A
4/26/2019	#V	9:30:00 AM					N/A
4/26/2019	#V	11:30:00 AM					N/A

4/26/2019	#V	1:30:00 PM					N/A
4/26/2019	#V	3:30:00 PM					N/A
4/26/2019	#VOD	9:30:00 AM					N/A
4/26/2019	#VOD	11:30:00 AM					N/A
4/26/2019	#VOD	1:30:00 PM					N/A
4/26/2019	#VOD	3:30:00 PM					N/A
4/26/2019	#VZ	9:30:00 AM					N/A
4/26/2019	#VZ	11:30:00 AM					N/A
4/26/2019	#VZ	1:30:00 PM					N/A
4/26/2019	#VZ	3:30:00 PM					N/A
4/26/2019	#WDC	9:30:00 AM					N/A
4/26/2019	#WDC	11:30:00 AM					N/A
4/26/2019	#WDC	1:30:00 PM					N/A
4/26/2019	#WDC	3:30:00 PM					N/A
4/26/2019	#WFC	9:30:00 AM					N/A
4/26/2019	#WFC	11:30:00 AM					N/A
4/26/2019	#WFC	1:30:00 PM					N/A
4/26/2019	#WFC	3:30:00 PM					N/A
4/26/2019	#WMT	9:30:00 AM					N/A
4/26/2019	#WMT	11:30:00 AM					N/A
4/26/2019	#WMT	1:30:00 PM					N/A
4/26/2019	#WMT	3:30:00 PM					N/A
4/26/2019	#XOM	9:30:00 AM					N/A
4/26/2019	#XOM	11:30:00 AM					N/A
4/26/2019	#XOM	1:30:00 PM					N/A
4/26/2019	#XOM	3:30:00 PM					N/A
4/26/2019	#YHOO	9:30:00 AM					N/A
4/26/2019	#YHOO	11:30:00 AM					N/A
4/26/2019	#YHOO	1:30:00 PM					N/A
4/26/2019	#YHOO	3:30:00 PM					N/A
4/26/2019	#ZNGA	9:30:00 AM					N/A
4/26/2019	#ZNGA	11:30:00 AM					N/A
4/26/2019	#ZNGA	1:30:00 PM					N/A
4/26/2019	#ZNGA	3:30:00 PM					N/A

4/26/2019	AUDCAD	9:30:00 AM	0.94662	0.9471			N/A
4/26/2019	AUDCAD	11:30:00 AM	0.94751	0.94819			N/A
4/26/2019	AUDCAD	1:30:00 PM	0.94893	0.9496			N/A
4/26/2019	AUDCAD	3:30:00 PM	0.94814	0.94755			N/A
4/26/2019	AUDCAD.fx	9:30:00 AM	0.94695	0.94673			N/A
4/26/2019	AUDCAD.fx	11:30:00 AM	0.94785	0.94784			N/A
4/26/2019	AUDCAD.fx	1:30:00 PM	0.94926	0.94925			N/A
4/26/2019	AUDCAD.fx	3:30:00 PM	0.94846	0.94722			N/A
4/26/2019	AUDCHF	9:30:00 AM	0.7165	0.71709			N/A
4/26/2019	AUDCHF	11:30:00 AM	0.71735	0.718			N/A
4/26/2019	AUDCHF	1:30:00 PM	0.71786	0.71856			N/A
4/26/2019	AUDCHF	3:30:00 PM	0.71907	0.71893			N/A
4/26/2019	AUDCHF.fx	9:30:00 AM	0.71684	0.71673			N/A
4/26/2019	AUDCHF.fx	11:30:00 AM	0.71769	0.71765			N/A
4/26/2019	AUDCHF.fx	1:30:00 PM	0.7182	0.71821			N/A
4/26/2019	AUDCHF.fx	3:30:00 PM	0.7194	0.71872			N/A
4/26/2019	AUDCZK	9:30:00 AM	16.201	16.213			N/A
4/26/2019	AUDCZK	11:30:00 AM	16.21	16.227			N/A
4/26/2019	AUDCZK	1:30:00 PM	16.208	16.224			N/A
4/26/2019	AUDCZK	3:30:00 PM	16.218	16.222			N/A
4/26/2019	AUDDKK	9:30:00 AM	4.7066	4.7098			N/A
4/26/2019	AUDDKK	11:30:00 AM	4.7098	4.7144			N/A
4/26/2019	AUDDKK	1:30:00 PM	4.7142	4.7189			N/A
4/26/2019	AUDDKK	3:30:00 PM	4.7189	4.7189			N/A
4/26/2019	AUDHKD	9:30:00 AM	5.5088	5.5113			N/A
4/26/2019	AUDHKD	11:30:00 AM	5.5126	5.5165			N/A
4/26/2019	AUDHKD	1:30:00 PM	5.5161	5.5191			N/A
4/26/2019	AUDHKD	3:30:00 PM	5.5145	5.5088			N/A
4/26/2019	AUDHUF	9:30:00 AM	202.95	203.12			N/A
4/26/2019	AUDHUF	11:30:00 AM	203.25	203.39			N/A
4/26/2019	AUDHUF	1:30:00 PM	203.14	203.28			N/A
4/26/2019	AUDHUF	3:30:00 PM	203.26	203.36			N/A
4/26/2019	AUDJPY	9:30:00 AM	78.466	78.516			N/A
4/26/2019	AUDJPY	11:30:00 AM	78.497	78.558			N/A

4/26/2019	AUDJPY	1:30:00 PM	78.616	78.682			N/A
4/26/2019	AUDJPY	3:30:00 PM	78.702	78.666			N/A
4/26/2019	AUDJPY.fx	9:30:00 AM	78.5	78.481			N/A
4/26/2019	AUDJPY.fx	11:30:00 AM	78.53	78.523			N/A
4/26/2019	AUDJPY.fx	1:30:00 PM	78.649	78.648			N/A
4/26/2019	AUDJPY.fx	3:30:00 PM	78.734	78.638			N/A
4/26/2019	AUDMXN	9:30:00 AM	13.3727	13.3795			N/A
4/26/2019	AUDMXN	11:30:00 AM	13.3765	13.3851			N/A
4/26/2019	AUDMXN	1:30:00 PM	13.3943	13.4022			N/A
4/26/2019	AUDMXN	3:30:00 PM	13.4072	13.4025			N/A
4/26/2019	AUDNOK	9:30:00 AM	6.0874	6.0907			N/A
4/26/2019	AUDNOK	11:30:00 AM	6.0939	6.0985			N/A
4/26/2019	AUDNOK	1:30:00 PM	6.103	6.1068			N/A
4/26/2019	AUDNOK	3:30:00 PM	6.1124	6.1115			N/A
4/26/2019	AUDNOK.fx	9:30:00 AM	6.0889	6.089			N/A
4/26/2019	AUDNOK.fx	11:30:00 AM	6.0955	6.0966			N/A
4/26/2019	AUDNOK.fx	1:30:00 PM	6.1046	6.1051			N/A
4/26/2019	AUDNOK.fx	3:30:00 PM	6.1139	6.1104			N/A
4/26/2019	AUDNZD	9:30:00 AM	1.05675	1.05748			N/A
4/26/2019	AUDNZD	11:30:00 AM	1.05691	1.05779			N/A
4/26/2019	AUDNZD	1:30:00 PM	1.05767	1.05851			N/A
4/26/2019	AUDNZD	3:30:00 PM	1.05785	1.05809			N/A
4/26/2019	AUDNZD.fx	9:30:00 AM	1.05719	1.05701			N/A
4/26/2019	AUDNZD.fx	11:30:00 AM	1.05736	1.05735			N/A
4/26/2019	AUDNZD.fx	1:30:00 PM	1.0581	1.05806			N/A
4/26/2019	AUDNZD.fx	3:30:00 PM	1.0581	1.05767			N/A
4/26/2019	AUDPLN	9:30:00 AM	2.7042	2.7068			N/A
4/26/2019	AUDPLN	11:30:00 AM	2.7066	2.7098			N/A
4/26/2019	AUDPLN	1:30:00 PM	2.707	2.7102			N/A
4/26/2019	AUDPLN	3:30:00 PM	2.711	2.7105			N/A
4/26/2019	AUDSEK	9:30:00 AM	6.692	6.6928			N/A
4/26/2019	AUDSEK	11:30:00 AM	6.6815	6.6842			N/A
4/26/2019	AUDSEK	1:30:00 PM	6.6882	6.6915			N/A
4/26/2019	AUDSEK	3:30:00 PM	6.6876	6.6835			N/A

4/26/2019	AUDSEK.fx	9:30:00 AM	6.6873	6.6972			N/A
4/26/2019	AUDSEK.fx	11:30:00 AM	6.6768	6.6887			N/A
4/26/2019	AUDSEK.fx	1:30:00 PM	6.6838	6.696			N/A
4/26/2019	AUDSEK.fx	3:30:00 PM	6.6834	6.6887			N/A
4/26/2019	AUDSGD	9:30:00 AM	0.957	0.9572			N/A
4/26/2019	AUDSGD	11:30:00 AM	0.9581	0.9583			N/A
4/26/2019	AUDSGD	1:30:00 PM	0.9588	0.959			N/A
4/26/2019	AUDSGD	3:30:00 PM	0.959	0.9576			N/A
4/26/2019	AUDSGD.fx	9:30:00 AM	0.95712	0.95707			N/A
4/26/2019	AUDSGD.fx	11:30:00 AM	0.95813	0.95819			N/A
4/26/2019	AUDSGD.fx	1:30:00 PM	0.95892	0.95901			N/A
4/26/2019	AUDSGD.fx	3:30:00 PM	0.95909	0.95771			N/A
4/26/2019	AUDUSD	9:30:00 AM	0.70258	0.70258			N/A
4/26/2019	AUDUSD	11:30:00 AM	0.70312	0.70321			N/A
4/26/2019	AUDUSD	1:30:00 PM	0.70357	0.70365			N/A
4/26/2019	AUDUSD	3:30:00 PM	0.70368	0.70229			N/A
4/26/2019	AUDUSD.fx	9:30:00 AM	0.70264	0.70252			N/A
4/26/2019	AUDUSD.fx	11:30:00 AM	0.70317	0.70315			N/A
4/26/2019	AUDUSD.fx	1:30:00 PM	0.70363	0.70359			N/A
4/26/2019	AUDUSD.fx	3:30:00 PM	0.70372	0.70225			N/A
4/26/2019	AUDZAR	9:30:00 AM	10.1122	10.1147			N/A
4/26/2019	AUDZAR	11:30:00 AM	10.1022	10.1135			N/A
4/26/2019	AUDZAR	1:30:00 PM	10.1302	10.1406			N/A
4/26/2019	AUDZAR	3:30:00 PM	10.1484	10.0984			N/A
4/26/2019	AUS200.i	9:30:00 AM					N/A
4/26/2019	AUS200.i	11:30:00 AM	6385.7	6389.2			N/A
4/26/2019	AUS200.i	1:30:00 PM	6385.7	6389.2			N/A
4/26/2019	AUS200.i	3:30:00 PM	6390.1	6388.67			N/A
4/26/2019	BCHUSD	9:30:00 AM	275.51	277.35			N/A
4/26/2019	BCHUSD	11:30:00 AM	276.82	278.44			N/A
4/26/2019	BCHUSD	1:30:00 PM	276.67	278.42			N/A
4/26/2019	BCHUSD	3:30:00 PM	275.68	277.41			N/A
4/26/2019	CADCHF	9:30:00 AM	0.75667	0.75733			N/A
4/26/2019	CADCHF	11:30:00 AM	0.75681	0.75751			N/A

4/26/2019	CADCHF	1:30:00 PM	0.75625	0.75697			N/A
4/26/2019	CADCHF	3:30:00 PM	0.75851	0.75845			N/A
4/26/2019	CADCHF.fx	9:30:00 AM	0.75701	0.75698			N/A
4/26/2019	CADCHF.fx	11:30:00 AM	0.75715	0.75716			N/A
4/26/2019	CADCHF.fx	1:30:00 PM	0.75659	0.75662			N/A
4/26/2019	CADCHF.fx	3:30:00 PM	0.75869	0.75823			N/A
4/26/2019	CADCZK	9:30:00 AM	17.113	17.127			N/A
4/26/2019	CADCZK	11:30:00 AM	17.105	17.122			N/A
4/26/2019	CADCZK	1:30:00 PM	17.078	17.094			N/A
4/26/2019	CADCZK	3:30:00 PM	17.122	17.119			N/A
4/26/2019	CADDKK	9:30:00 AM	4.972	4.975			N/A
4/26/2019	CADDKK	11:30:00 AM	4.97	4.972			N/A
4/26/2019	CADDKK	1:30:00 PM	4.967	4.971			N/A
4/26/2019	CADDKK	3:30:00 PM	4.978	4.975			N/A
4/26/2019	CADHKD	9:30:00 AM	5.8184	5.8214			N/A
4/26/2019	CADHKD	11:30:00 AM	5.8167	5.8207			N/A
4/26/2019	CADHKD	1:30:00 PM	5.8123	5.8156			N/A
4/26/2019	CADHKD	3:30:00 PM	5.8178	5.8165			N/A
4/26/2019	CADHUF	9:30:00 AM	214.39	214.53			N/A
4/26/2019	CADHUF	11:30:00 AM	214.51	214.57			N/A
4/26/2019	CADHUF	1:30:00 PM	214.06	214.14			N/A
4/26/2019	CADHUF	3:30:00 PM	214.61	214.51			N/A
4/26/2019	CADJPY	9:30:00 AM	82.861	82.922			N/A
4/26/2019	CADJPY	11:30:00 AM	82.816	82.881			N/A
4/26/2019	CADJPY	1:30:00 PM	82.822	82.886			N/A
4/26/2019	CADJPY	3:30:00 PM	83.015	83			N/A
4/26/2019	CADJPY.fx	9:30:00 AM	82.894	82.888			N/A
4/26/2019	CADJPY.fx	11:30:00 AM	82.849	82.846			N/A
4/26/2019	CADJPY.fx	1:30:00 PM	82.855	82.851			N/A
4/26/2019	CADJPY.fx	3:30:00 PM	83.034	82.967			N/A
4/26/2019	CADMXN	9:30:00 AM	14.1247	14.1328			N/A
4/26/2019	CADMXN	11:30:00 AM	14.1143	14.1245			N/A
4/26/2019	CADMXN	1:30:00 PM	14.1114	14.1229			N/A
4/26/2019	CADMXN	3:30:00 PM	14.1551	14.1509			N/A

4/26/2019	CADNOK	9:30:00 AM	6.4277	6.4323			N/A
4/26/2019	CADNOK	11:30:00 AM	6.4271	6.4308			N/A
4/26/2019	CADNOK	1:30:00 PM	6.4266	6.4303			N/A
4/26/2019	CADNOK	3:30:00 PM	6.4457	6.4417			N/A
4/26/2019	CADPLN	9:30:00 AM	2.8562	2.8581			N/A
4/26/2019	CADPLN	11:30:00 AM	2.8559	2.8579			N/A
4/26/2019	CADPLN	1:30:00 PM	2.852	2.8538			N/A
4/26/2019	CADPLN	3:30:00 PM	2.8579	2.8579			N/A
4/26/2019	CADSEK	9:30:00 AM	7.066	7.0688			N/A
4/26/2019	CADSEK	11:30:00 AM	7.0467	7.0505			N/A
4/26/2019	CADSEK	1:30:00 PM	7.0447	7.048			N/A
4/26/2019	CADSEK	3:30:00 PM	7.0523	7.0469			N/A
4/26/2019	CADSGD	9:30:00 AM	1.01	1.0103			N/A
4/26/2019	CADSGD	11:30:00 AM	1.0103	1.0106			N/A
4/26/2019	CADSGD	1:30:00 PM	1.0096	1.0099			N/A
4/26/2019	CADSGD	3:30:00 PM	1.0102	1.0105			N/A
4/26/2019	CADZAR	9:30:00 AM	10.6813	10.6846			N/A
4/26/2019	CADZAR	11:30:00 AM	10.6591	10.6728			N/A
4/26/2019	CADZAR	1:30:00 PM	10.6722	10.6857			N/A
4/26/2019	CADZAR	3:30:00 PM	10.7134	10.6541			N/A
4/26/2019	CHFCZK	9:30:00 AM	22.61	22.622			N/A
4/26/2019	CHFCZK	11:30:00 AM	22.596	22.61			N/A
4/26/2019	CHFCZK	1:30:00 PM	22.577	22.591			N/A
4/26/2019	CHFCZK	3:30:00 PM	22.57	22.575			N/A
4/26/2019	CHFDKK	9:30:00 AM	6.568	6.57			N/A
4/26/2019	CHFDKK	11:30:00 AM	6.565	6.567			N/A
4/26/2019	CHFDKK	1:30:00 PM	6.566	6.568			N/A
4/26/2019	CHFDKK	3:30:00 PM	6.562	6.563			N/A
4/26/2019	CHFDKK.fx	9:30:00 AM	6.5665	6.571			N/A
4/26/2019	CHFDKK.fx	11:30:00 AM	6.563	6.5687			N/A
4/26/2019	CHFDKK.fx	1:30:00 PM	6.5643	6.57			N/A
4/26/2019	CHFDKK.fx	3:30:00 PM	6.561	6.5643			N/A
4/26/2019	CHFHKD	9:30:00 AM	7.687	7.6907			N/A
4/26/2019	CHFHKD	11:30:00 AM	7.6838	7.6876			N/A

4/26/2019	CHFHKD	1:30:00 PM	7.6832	7.686			N/A
4/26/2019	CHFHKD	3:30:00 PM	7.6766	7.6645			N/A
4/26/2019	CHFHUF	9:30:00 AM	283.15	283.48			N/A
4/26/2019	CHFHUF	11:30:00 AM	283.25	283.5			N/A
4/26/2019	CHFHUF	1:30:00 PM	282.78	283.13			N/A
4/26/2019	CHFHUF	3:30:00 PM	282.78	283.08			N/A
4/26/2019	CHFJPY	9:30:00 AM	109.535	109.602			N/A
4/26/2019	CHFJPY	11:30:00 AM	109.449	109.516			N/A
4/26/2019	CHFJPY	1:30:00 PM	109.541	109.603			N/A
4/26/2019	CHFJPY	3:30:00 PM	109.51	109.508			N/A
4/26/2019	CHFJPY.fx	9:30:00 AM	109.568	109.567			N/A
4/26/2019	CHFJPY.fx	11:30:00 AM	109.483	109.483			N/A
4/26/2019	CHFJPY.fx	1:30:00 PM	109.574	109.568			N/A
4/26/2019	CHFJPY.fx	3:30:00 PM	109.525	109.479			N/A
4/26/2019	CHFMXN	9:30:00 AM	18.6615	18.6696			N/A
4/26/2019	CHFMXN	11:30:00 AM	18.6417	18.6542			N/A
4/26/2019	CHFMXN	1:30:00 PM	18.6516	18.6668			N/A
4/26/2019	CHFMXN	3:30:00 PM	18.6609	18.6575			N/A
4/26/2019	CHFNOK	9:30:00 AM	8.4926	8.4983			N/A
4/26/2019	CHFNOK	11:30:00 AM	8.4907	8.4982			N/A
4/26/2019	CHFNOK	1:30:00 PM	8.4969	8.5025			N/A
4/26/2019	CHFNOK	3:30:00 PM	8.4987	8.5026			N/A
4/26/2019	CHFNOK.fx	9:30:00 AM	8.49598	8.49481			N/A
4/26/2019	CHFNOK.fx	11:30:00 AM	8.49421	8.49466			N/A
4/26/2019	CHFNOK.fx	1:30:00 PM	8.50043	8.49898			N/A
4/26/2019	CHFNOK.fx	3:30:00 PM	8.50187	8.49903			N/A
4/26/2019	CHFPLN	9:30:00 AM	3.7736	3.7758			N/A
4/26/2019	CHFPLN	11:30:00 AM	3.7721	3.7752			N/A
4/26/2019	CHFPLN	1:30:00 PM	3.7699	3.7729			N/A
4/26/2019	CHFPLN	3:30:00 PM	3.77	3.7704			N/A
4/26/2019	CHFPLN.fx	9:30:00 AM	3.77114	3.77815			N/A
4/26/2019	CHFPLN.fx	11:30:00 AM	3.76976	3.77743			N/A
4/26/2019	CHFPLN.fx	1:30:00 PM	3.76744	3.77523			N/A
4/26/2019	CHFPLN.fx	3:30:00 PM	3.76679	3.77433			N/A

4/26/2019	CHFSEK	9:30:00 AM	9.3358	9.337			N/A
4/26/2019	CHFSEK	11:30:00 AM	9.3079	9.3128			N/A
4/26/2019	CHFSEK	1:30:00 PM	9.3114	9.3154			N/A
4/26/2019	CHFSEK	3:30:00 PM	9.2944	9.2917			N/A
4/26/2019	CHFSGD	9:30:00 AM	1.3351	1.3355			N/A
4/26/2019	CHFSGD	11:30:00 AM	1.3349	1.3354			N/A
4/26/2019	CHFSGD	1:30:00 PM	1.3351	1.3355			N/A
4/26/2019	CHFSGD	3:30:00 PM	1.3333	1.332			N/A
4/26/2019	CHFSGD.fx	9:30:00 AM	1.33533	1.33527			N/A
4/26/2019	CHFSGD.fx	11:30:00 AM	1.33508	1.33511			N/A
4/26/2019	CHFSGD.fx	1:30:00 PM	1.33524	1.33527			N/A
4/26/2019	CHFSGD.fx	3:30:00 PM	1.33352	1.33201			N/A
4/26/2019	CHFZAR	9:30:00 AM	14.1164	14.1098			N/A
4/26/2019	CHFZAR	11:30:00 AM	14.0831	14.0925			N/A
4/26/2019	CHFZAR	1:30:00 PM	14.1096	14.1195			N/A
4/26/2019	CHFZAR	3:30:00 PM	14.1259	14.0528			N/A
4/26/2019	CZKJPY	9:30:00 AM	4.841	4.844			N/A
4/26/2019	CZKJPY	11:30:00 AM	4.839	4.843			N/A
4/26/2019	CZKJPY	1:30:00 PM	4.848	4.851			N/A
4/26/2019	CZKJPY	3:30:00 PM	4.848	4.849			N/A
4/26/2019	DAX30.i	9:30:00 AM	12295.44	12296.19			N/A
4/26/2019	DAX30.i	11:30:00 AM	12303.94	12299.44			N/A
4/26/2019	DAX30.i	1:30:00 PM	12315.44	12313.94			N/A
4/26/2019	DAX30.i	3:30:00 PM	12334.94	12309.94			N/A
4/26/2019	DJ30.i	9:30:00 AM					N/A
4/26/2019	DJ30.i	11:30:00 AM					N/A
4/26/2019	DJ30.i	1:30:00 PM					N/A
4/26/2019	DJ30.i	3:30:00 PM					N/A
4/26/2019	DKKJPY	9:30:00 AM					N/A
4/26/2019	DKKJPY	11:30:00 AM	16.66	16.68			N/A
4/26/2019	DKKJPY	1:30:00 PM	16.67	16.69			N/A
4/26/2019	DKKJPY	3:30:00 PM	16.69	16.69			N/A
4/26/2019	EURAUD	9:30:00 AM	1.58532	1.58515			N/A
4/26/2019	EURAUD	11:30:00 AM	1.58358	1.58399			N/A

4/26/2019	EURAUD	1:30:00 PM	1.58204	1.58249			N/A
4/26/2019	EURAUD	3:30:00 PM	1.58227	1.58077			N/A
4/26/2019	EURAUD.fx	9:30:00 AM	1.58554	1.58493			N/A
4/26/2019	EURAUD.fx	11:30:00 AM	1.58379	1.58375			N/A
4/26/2019	EURAUD.fx	1:30:00 PM	1.58225	1.58226			N/A
4/26/2019	EURAUD.fx	3:30:00 PM	1.58245	1.58055			N/A
4/26/2019	EURCAD	9:30:00 AM	1.50118	1.5018			N/A
4/26/2019	EURCAD	11:30:00 AM	1.50137	1.50218			N/A
4/26/2019	EURCAD	1:30:00 PM	1.50213	1.50294			N/A
4/26/2019	EURCAD	3:30:00 PM	1.50021	1.49937			N/A
4/26/2019	EURCAD.fx	9:30:00 AM	1.50159	1.50139			N/A
4/26/2019	EURCAD.fx	11:30:00 AM	1.5018	1.50175			N/A
4/26/2019	EURCAD.fx	1:30:00 PM	1.50256	1.5025			N/A
4/26/2019	EURCAD.fx	3:30:00 PM	1.5003	1.49907			N/A
4/26/2019	EURCHF	9:30:00 AM	1.13674	1.13653			N/A
4/26/2019	EURCHF	11:30:00 AM	1.13706	1.13709			N/A
4/26/2019	EURCHF	1:30:00 PM	1.13679	1.13687			N/A
4/26/2019	EURCHF	3:30:00 PM	1.13774	1.13733			N/A
4/26/2019	EURCHF.fx	9:30:00 AM	1.1368	1.13648			N/A
4/26/2019	EURCHF.fx	11:30:00 AM	1.13711	1.13703			N/A
4/26/2019	EURCHF.fx	1:30:00 PM	1.13685	1.13681			N/A
4/26/2019	EURCHF.fx	3:30:00 PM	1.13777	1.1373			N/A
4/26/2019	EURCZK	9:30:00 AM	25.684	25.723			N/A
4/26/2019	EURCZK	11:30:00 AM	25.679	25.716			N/A
4/26/2019	EURCZK	1:30:00 PM	25.651	25.689			N/A
4/26/2019	EURCZK	3:30:00 PM	25.659	25.69			N/A
4/26/2019	EURDKK	9:30:00 AM	7.4647	7.4659			N/A
4/26/2019	EURDKK	11:30:00 AM	7.4645	7.4658			N/A
4/26/2019	EURDKK	1:30:00 PM	7.4612	7.4624			N/A
4/26/2019	EURDKK	3:30:00 PM	7.4635	7.4643			N/A
4/26/2019	EURGBP	9:30:00 AM	0.86295	0.86296			N/A
4/26/2019	EURGBP	11:30:00 AM	0.86326	0.86331			N/A
4/26/2019	EURGBP	1:30:00 PM	0.8628	0.86282			N/A
4/26/2019	EURGBP	3:30:00 PM	0.86321	0.86273	1000	1000	N/A

4/26/2019	EURGBP.fx	9:30:00 AM	0.86298	0.8629			N/A
4/26/2019	EURGBP.fx	11:30:00 AM	0.86329	0.86327			N/A
4/26/2019	EURGBP.fx	1:30:00 PM	0.86284	0.86277			N/A
4/26/2019	EURGBP.fx	3:30:00 PM	0.86326	0.8627			N/A
4/26/2019	EURHKD	9:30:00 AM	8.7385	8.7418			N/A
4/26/2019	EURHKD	11:30:00 AM	8.7374	8.7423			N/A
4/26/2019	EURHKD	1:30:00 PM	8.7342	8.7392			N/A
4/26/2019	EURHKD	3:30:00 PM	8.7322	8.7206			N/A
4/26/2019	EURHKD.fx	9:30:00 AM	8.74128	8.73894			N/A
4/26/2019	EURHKD.fx	11:30:00 AM	8.74028	8.7394			N/A
4/26/2019	EURHKD.fx	1:30:00 PM	8.73704	8.73626			N/A
4/26/2019	EURHKD.fx	3:30:00 PM	8.73312	8.71861			N/A
4/26/2019	EURHUF	9:30:00 AM	321.75	322.36			N/A
4/26/2019	EURHUF	11:30:00 AM	322.03	322.64			N/A
4/26/2019	EURHUF	1:30:00 PM	321.53	322.11			N/A
4/26/2019	EURHUF	3:30:00 PM	321.77	322.43			N/A
4/26/2019	EURHUF.fx	9:30:00 AM	322.035	322.209			N/A
4/26/2019	EURHUF.fx	11:30:00 AM	322.295	322.479			N/A
4/26/2019	EURHUF.fx	1:30:00 PM	321.791	321.98			N/A
4/26/2019	EURHUF.fx	3:30:00 PM	322.045	322.122			N/A
4/26/2019	EURJPY	9:30:00 AM	124.539	124.514			N/A
4/26/2019	EURJPY	11:30:00 AM	124.478	124.479			N/A
4/26/2019	EURJPY	1:30:00 PM	124.549	124.555			N/A
4/26/2019	EURJPY	3:30:00 PM	124.582	124.519			N/A
4/26/2019	EURJPY.fx	9:30:00 AM	124.541	124.509			N/A
4/26/2019	EURJPY.fx	11:30:00 AM	124.481	124.476			N/A
4/26/2019	EURJPY.fx	1:30:00 PM	124.552	124.551			N/A
4/26/2019	EURJPY.fx	3:30:00 PM	124.584	124.516			N/A
4/26/2019	EURMXN	9:30:00 AM	21.2099	21.2239			N/A
4/26/2019	EURMXN	11:30:00 AM	21.2022	21.2129			N/A
4/26/2019	EURMXN	1:30:00 PM	21.2061	21.2254			N/A
4/26/2019	EURMXN	3:30:00 PM	21.2322	21.2276			N/A
4/26/2019	EURMXN.f	9:30:00 AM	21.2182	21.2155			N/A
4/26/2019	EURMXN.f	11:30:00 AM	21.2111	21.2039			N/A

4/26/2019	EURMXN.fx	1:30:00 PM	21.2153	21.2164			N/A
4/26/2019	EURMXN.fx	3:30:00 PM	21.2401	21.2181			N/A
4/26/2019	EURNOK	9:30:00 AM	9.6506	9.6618			N/A
4/26/2019	EURNOK	11:30:00 AM	9.6533	9.6644			N/A
4/26/2019	EURNOK	1:30:00 PM	9.658	9.668			N/A
4/26/2019	EURNOK	3:30:00 PM	9.6645	9.6743			N/A
4/26/2019	EURNOK.fx	9:30:00 AM	9.65581	9.65653			N/A
4/26/2019	EURNOK.fx	11:30:00 AM	9.65869	9.65893			N/A
4/26/2019	EURNOK.fx	1:30:00 PM	9.66359	9.66229			N/A
4/26/2019	EURNOK.fx	3:30:00 PM	9.6694	9.66913			N/A
4/26/2019	EURNZD	9:30:00 AM	1.67602	1.67665			N/A
4/26/2019	EURNZD	11:30:00 AM	1.67488	1.67572			N/A
4/26/2019	EURNZD	1:30:00 PM	1.67443	1.67516			N/A
4/26/2019	EURNZD	3:30:00 PM	1.67423	1.67325			N/A
4/26/2019	EURNZD.fx	9:30:00 AM	1.67645	1.67619			N/A
4/26/2019	EURNZD.fx	11:30:00 AM	1.67531	1.67529			N/A
4/26/2019	EURNZD.fx	1:30:00 PM	1.67486	1.67473			N/A
4/26/2019	EURNZD.fx	3:30:00 PM	1.67451	1.67285			N/A
4/26/2019	EURPLN	9:30:00 AM	4.2887	4.2916			N/A
4/26/2019	EURPLN	11:30:00 AM	4.2891	4.2924			N/A
4/26/2019	EURPLN	1:30:00 PM	4.2857	4.2875			N/A
4/26/2019	EURPLN	3:30:00 PM	4.2884	4.2891			N/A
4/26/2019	EURPLN.fx	9:30:00 AM	4.28797	4.29222			N/A
4/26/2019	EURPLN.fx	11:30:00 AM	4.28869	4.29302			N/A
4/26/2019	EURPLN.fx	1:30:00 PM	4.285	4.28962			N/A
4/26/2019	EURPLN.fx	3:30:00 PM	4.28776	4.29003			N/A
4/26/2019	EURRUB	9:30:00 AM					N/A
4/26/2019	EURRUB	11:30:00 AM	71.695	72.129			N/A
4/26/2019	EURRUB	1:30:00 PM	71.862	72.281			N/A
4/26/2019	EURRUB	3:30:00 PM	71.786	72.045			N/A
4/26/2019	EURSEK	9:30:00 AM	10.6119	10.6144			N/A
4/26/2019	EURSEK	11:30:00 AM	10.5859	10.5902			N/A
4/26/2019	EURSEK	1:30:00 PM	10.587	10.5912			N/A
4/26/2019	EURSEK	3:30:00 PM	10.5748	10.5784			N/A

4/26/2019	EURSEK.fx	9:30:00 AM	10.6134	10.61265			N/A
4/26/2019	EURSEK.fx	11:30:00 AM	10.58746	10.58854			N/A
4/26/2019	EURSEK.fx	1:30:00 PM	10.58886	10.58942			N/A
4/26/2019	EURSEK.fx	3:30:00 PM	10.57655	10.57683			N/A
4/26/2019	EURSGD	9:30:00 AM	1.5174	1.5181			N/A
4/26/2019	EURSGD	11:30:00 AM	1.5177	1.5186			N/A
4/26/2019	EURSGD	1:30:00 PM	1.5175	1.5184			N/A
4/26/2019	EURSGD	3:30:00 PM	1.5169	1.5154			N/A
4/26/2019	EURSGD.fx	9:30:00 AM	1.51781	1.51767			N/A
4/26/2019	EURSGD.fx	11:30:00 AM	1.51808	1.51815			N/A
4/26/2019	EURSGD.fx	1:30:00 PM	1.51789	1.51797			N/A
4/26/2019	EURSGD.fx	3:30:00 PM	1.51718	1.51522			N/A
4/26/2019	EURUSD	9:30:00 AM	1.11403	1.11386	10	10	N/A
4/26/2019	EURUSD	11:30:00 AM	1.11388	1.11396			N/A
4/26/2019	EURUSD	1:30:00 PM	1.11353	1.1136	10	10	N/A
4/26/2019	EURUSD	3:30:00 PM	1.11328	1.11115	10	10	N/A
4/26/2019	EURUSD.fx	9:30:00 AM	1.11424	1.11396			N/A
4/26/2019	EURUSD.fx	11:30:00 AM	1.11409	1.11405			N/A
4/26/2019	EURUSD.fx	1:30:00 PM	1.11374	1.11369			N/A
4/26/2019	EURUSD.fx	3:30:00 PM	1.11335	1.11129			N/A
4/26/2019	EURZAR	9:30:00 AM	16.0447	16.0435			N/A
4/26/2019	EURZAR	11:30:00 AM	16.0147	16.0321			N/A
4/26/2019	EURZAR	1:30:00 PM	16.042	16.0628			N/A
4/26/2019	EURZAR	3:30:00 PM	16.0784	16.0481			N/A
4/26/2019	EURZAR.fx	9:30:00 AM	16.04378	16.04511			N/A
4/26/2019	EURZAR.fx	11:30:00 AM	16.01382	16.03236			N/A
4/26/2019	EURZAR.fx	1:30:00 PM	16.04198	16.06276			N/A
4/26/2019	EURZAR.fx	3:30:00 PM	16.0729	16.05595			N/A
4/26/2019	GBPAUD	9:30:00 AM	1.83753	1.83757			N/A
4/26/2019	GBPAUD	11:30:00 AM	1.83497	1.83566			N/A
4/26/2019	GBPAUD	1:30:00 PM	1.83422	1.83479			N/A
4/26/2019	GBPAUD	3:30:00 PM	1.83404	1.83272			N/A
4/26/2019	GBPAUD.fx	9:30:00 AM	1.83795	1.83716			N/A
4/26/2019	GBPAUD.fx	11:30:00 AM	1.83537	1.83526			N/A

4/26/2019	GBPAUD.fx	1:30:00 PM	1.83463	1.8344			N/A
4/26/2019	GBPAUD.fx	3:30:00 PM	1.83439	1.83235			N/A
4/26/2019	GBPCAD	9:30:00 AM	1.73958	1.74018			N/A
4/26/2019	GBPCAD	11:30:00 AM	1.73917	1.74			N/A
4/26/2019	GBPCAD	1:30:00 PM	1.74126	1.74167			N/A
4/26/2019	GBPCAD	3:30:00 PM	1.73789	1.73732			N/A
4/26/2019	GBPCAD.fx	9:30:00 AM	1.73997	1.73979			N/A
4/26/2019	GBPCAD.fx	11:30:00 AM	1.73955	1.7396			N/A
4/26/2019	GBPCAD.fx	1:30:00 PM	1.74169	1.74128			N/A
4/26/2019	GBPCAD.fx	3:30:00 PM	1.73827	1.73719			N/A
4/26/2019	GBPCHF	9:30:00 AM	1.31701	1.3172			N/A
4/26/2019	GBPCHF	11:30:00 AM	1.31694	1.31734			N/A
4/26/2019	GBPCHF	1:30:00 PM	1.31746	1.31772			N/A
4/26/2019	GBPCHF	3:30:00 PM	1.3182	1.31794			N/A
4/26/2019	GBPCHF.fx	9:30:00 AM	1.3172	1.31701			N/A
4/26/2019	GBPCHF.fx	11:30:00 AM	1.31715	1.31712			N/A
4/26/2019	GBPCHF.fx	1:30:00 PM	1.31768	1.31752			N/A
4/26/2019	GBPCHF.fx	3:30:00 PM	1.31837	1.31788			N/A
4/26/2019	GBPCZK	9:30:00 AM	29.776	29.794			N/A
4/26/2019	GBPCZK	11:30:00 AM	29.757	29.776			N/A
4/26/2019	GBPCZK	1:30:00 PM	29.744	29.761			N/A
4/26/2019	GBPCZK	3:30:00 PM	29.745	29.744			N/A
4/26/2019	GBPDKK	9:30:00 AM	8.648	8.658			N/A
4/26/2019	GBPDKK	11:30:00 AM	8.643	8.654			N/A
4/26/2019	GBPDKK	1:30:00 PM	8.648	8.659			N/A
4/26/2019	GBPDKK	3:30:00 PM	8.649	8.653			N/A
4/26/2019	GBPDKK.fx	9:30:00 AM	8.6461	8.6581			N/A
4/26/2019	GBPDKK.fx	11:30:00 AM	8.6418	8.6543			N/A
4/26/2019	GBPDKK.fx	1:30:00 PM	8.6468	8.659			N/A
4/26/2019	GBPDKK.fx	3:30:00 PM	8.6468	8.6544			N/A
4/26/2019	GBPHKD	9:30:00 AM	10.1226	10.1276			N/A
4/26/2019	GBPHKD	11:30:00 AM	10.1184	10.1237			N/A
4/26/2019	GBPHKD	1:30:00 PM	10.1216	10.125			N/A
4/26/2019	GBPHKD	3:30:00 PM	10.1111	10.1011			N/A

4/26/2019	GBPHUF	9:30:00 AM	372.9	373.33			N/A
4/26/2019	GBPHUF	11:30:00 AM	373.03	373.32			N/A
4/26/2019	GBPHUF	1:30:00 PM	372.7	372.95			N/A
4/26/2019	GBPHUF	3:30:00 PM	372.65	372.92			N/A
4/26/2019	GBPJPY	9:30:00 AM	144.254	144.275			N/A
4/26/2019	GBPJPY	11:30:00 AM	144.141	144.173			N/A
4/26/2019	GBPJPY	1:30:00 PM	144.303	144.336			N/A
4/26/2019	GBPJPY	3:30:00 PM	144.297	144.267			N/A
4/26/2019	GBPJPY.fx	9:30:00 AM	144.274	144.255			N/A
4/26/2019	GBPJPY.fx	11:30:00 AM	144.16	144.152			N/A
4/26/2019	GBPJPY.fx	1:30:00 PM	144.323	144.315			N/A
4/26/2019	GBPJPY.fx	3:30:00 PM	144.313	144.248			N/A
4/26/2019	GBPMXN	9:30:00 AM	24.5756	24.5827			N/A
4/26/2019	GBPMXN	11:30:00 AM	24.5524	24.5646			N/A
4/26/2019	GBPMXN	1:30:00 PM	24.5776	24.5853			N/A
4/26/2019	GBPMXN	3:30:00 PM	24.5948	24.5808			N/A
4/26/2019	GBPNOK	9:30:00 AM	11.1843	11.1945			N/A
4/26/2019	GBPNOK	11:30:00 AM	11.1828	11.1937			N/A
4/26/2019	GBPNOK	1:30:00 PM	11.1947	11.2045			N/A
4/26/2019	GBPNOK	3:30:00 PM	11.2024	11.2058			N/A
4/26/2019	GBPNOK.fx	9:30:00 AM	11.18924	11.18977			N/A
4/26/2019	GBPNOK.fx	11:30:00 AM	11.18778	11.1885			N/A
4/26/2019	GBPNOK.fx	1:30:00 PM	11.19967	11.19939			N/A
4/26/2019	GBPNOK.fx	3:30:00 PM	11.20647	11.2011			N/A
4/26/2019	GBPNZD	9:30:00 AM	1.94218	1.94271			N/A
4/26/2019	GBPNZD	11:30:00 AM	1.94034	1.94095			N/A
4/26/2019	GBPNZD	1:30:00 PM	1.94076	1.94145			N/A
4/26/2019	GBPNZD	3:30:00 PM	1.94037	1.9388			N/A
4/26/2019	GBPNZD.fx	9:30:00 AM	1.94256	1.94232			N/A
4/26/2019	GBPNZD.fx	11:30:00 AM	1.94071	1.94056			N/A
4/26/2019	GBPNZD.fx	1:30:00 PM	1.94112	1.94107			N/A
4/26/2019	GBPNZD.fx	3:30:00 PM	1.94065	1.93834			N/A
4/26/2019	GBPPLN	9:30:00 AM	4.9712	4.9724			N/A
4/26/2019	GBPPLN	11:30:00 AM	4.9695	4.971			N/A

4/26/2019	GBPPLN	1:30:00 PM	4.9683	4.9699			N/A
4/26/2019	GBPPLN	3:30:00 PM	4.9702	4.9693			N/A
4/26/2019	GBPPLN.fx	9:30:00 AM	4.9691	4.97454			N/A
4/26/2019	GBPPLN.fx	11:30:00 AM	4.96741	4.97304			N/A
4/26/2019	GBPPLN.fx	1:30:00 PM	4.96609	4.97201			N/A
4/26/2019	GBPPLN.fx	3:30:00 PM	4.96737	4.97206			N/A
4/26/2019	GBPSEK	9:30:00 AM	12.2958	12.3016			N/A
4/26/2019	GBPSEK	11:30:00 AM	12.2608	12.2692			N/A
4/26/2019	GBPSEK	1:30:00 PM	12.268	12.2769			N/A
4/26/2019	GBPSEK	3:30:00 PM	12.2551	12.2562			N/A
4/26/2019	GBPSEK.fx	9:30:00 AM	12.29215	12.30526			N/A
4/26/2019	GBPSEK.fx	11:30:00 AM	12.25704	12.27272			N/A
4/26/2019	GBPSEK.fx	1:30:00 PM	12.26454	12.28039			N/A
4/26/2019	GBPSEK.fx	3:30:00 PM	12.25207	12.25965			N/A
4/26/2019	GBPSGD	9:30:00 AM	1.7584	1.759			N/A
4/26/2019	GBPSGD	11:30:00 AM	1.7582	1.7588			N/A
4/26/2019	GBPSGD	1:30:00 PM	1.7591	1.7597			N/A
4/26/2019	GBPSGD	3:30:00 PM	1.7574	1.7559			N/A
4/26/2019	GBPSGD.fx	9:30:00 AM	1.75662	1.7608			N/A
4/26/2019	GBPSGD.fx	11:30:00 AM	1.75634	1.76064			N/A
4/26/2019	GBPSGD.fx	1:30:00 PM	1.75726	1.76142			N/A
4/26/2019	GBPSGD.fx	3:30:00 PM	1.75554	1.75814			N/A
4/26/2019	GBPUSD	9:30:00 AM	1.29109	1.29091			N/A
4/26/2019	GBPUSD	11:30:00 AM	1.29046	1.29049			N/A
4/26/2019	GBPUSD	1:30:00 PM	1.2909	1.29078			N/A
4/26/2019	GBPUSD	3:30:00 PM	1.2896	1.28773			N/A
4/26/2019	GBPUSD.fx	9:30:00 AM	1.29114	1.29086			N/A
4/26/2019	GBPUSD.fx	11:30:00 AM	1.29051	1.29043			N/A
4/26/2019	GBPUSD.fx	1:30:00 PM	1.29096	1.29071			N/A
4/26/2019	GBPUSD.fx	3:30:00 PM	1.28962	1.28774			N/A
4/26/2019	GBPZAR	9:30:00 AM	18.5886	18.5944			N/A
4/26/2019	GBPZAR	11:30:00 AM	18.547	18.5746			N/A
4/26/2019	GBPZAR	1:30:00 PM	18.5914	18.6189			N/A
4/26/2019	GBPZAR	3:30:00 PM	18.6298	18.5774			N/A

4/26/2019	GBPZAR.fx	9:30:00 AM	18.5928	18.5893			N/A
4/26/2019	GBPZAR.fx	11:30:00 AM	18.5542	18.5675			N/A
4/26/2019	GBPZAR.fx	1:30:00 PM	18.5988	18.6116			N/A
4/26/2019	GBPZAR.fx	3:30:00 PM	18.6307	18.5968			N/A
4/26/2019	GOLD	9:30:00 AM	1281.32	1281.64			N/A
4/26/2019	GOLD	11:30:00 AM	1282.18	1282.52			N/A
4/26/2019	GOLD	1:30:00 PM	1280.15	1280.43			N/A
4/26/2019	GOLD	3:30:00 PM	1279.15	1274.85			N/A
4/26/2019	HKDJPY	9:30:00 AM	14.24	14.25			N/A
4/26/2019	HKDJPY	11:30:00 AM	14.23	14.24			N/A
4/26/2019	HKDJPY	1:30:00 PM	14.25	14.27			N/A
4/26/2019	HKDJPY	3:30:00 PM	14.28	14.27			N/A
4/26/2019	HKDJPY.fx	9:30:00 AM	14.234	14.242			N/A
4/26/2019	HKDJPY.fx	11:30:00 AM	14.23	14.237			N/A
4/26/2019	HKDJPY.fx	1:30:00 PM	14.243	14.25			N/A
4/26/2019	HKDJPY.fx	3:30:00 PM	14.273	14.259			N/A
4/26/2019	HUFJPY	9:30:00 AM	0.3865	0.3868			N/A
4/26/2019	HUFJPY	11:30:00 AM	0.3862	0.3865			N/A
4/26/2019	HUFJPY	1:30:00 PM	0.387	0.3873			N/A
4/26/2019	HUFJPY	3:30:00 PM	0.3868	0.3871			N/A
4/26/2019	JP225.i	9:30:00 AM	22257.22	22264.33			N/A
4/26/2019	JP225.i	11:30:00 AM	22239.33	22254.33			N/A
4/26/2019	JP225.i	1:30:00 PM	22261.83	22279.33			N/A
4/26/2019	JP225.i	3:30:00 PM	22296.83	22283.5			N/A
4/26/2019	MXNJPY	9:30:00 AM	5.87	5.87			N/A
4/26/2019	MXNJPY	11:30:00 AM	5.86	5.87			N/A
4/26/2019	MXNJPY	1:30:00 PM	5.86	5.87			N/A
4/26/2019	MXNJPY	3:30:00 PM	5.86	5.86			N/A
4/26/2019	NASDAQ.i	9:30:00 AM					N/A
4/26/2019	NASDAQ.i	11:30:00 AM					N/A
4/26/2019	NASDAQ.i	1:30:00 PM					N/A
4/26/2019	NASDAQ.i	3:30:00 PM					N/A
4/26/2019	NOKJPY	9:30:00 AM	12.88	12.91			N/A
4/26/2019	NOKJPY	11:30:00 AM	12.87	12.9			N/A

4/26/2019	NOKJPY	1:30:00 PM	12.87	12.9			N/A
4/26/2019	NOKJPY	3:30:00 PM	12.87	12.89			N/A
4/26/2019	NOKJPY.fx	9:30:00 AM	12.889	12.894			N/A
4/26/2019	NOKJPY.fx	11:30:00 AM	12.88	12.886			N/A
4/26/2019	NOKJPY.fx	1:30:00 PM	12.883	12.887			N/A
4/26/2019	NOKJPY.fx	3:30:00 PM	12.876	12.877			N/A
4/26/2019	NZDCAD	9:30:00 AM	0.89536	0.89605			N/A
4/26/2019	NZDCAD	11:30:00 AM	0.89608	0.89674			N/A
4/26/2019	NZDCAD	1:30:00 PM	0.89687	0.89742			N/A
4/26/2019	NZDCAD	3:30:00 PM	0.89628	0.8954			N/A
4/26/2019	NZDCAD.fx	9:30:00 AM	0.8957	0.8957			N/A
4/26/2019	NZDCAD.fx	11:30:00 AM	0.89641	0.8964			N/A
4/26/2019	NZDCAD.fx	1:30:00 PM	0.8972	0.89708			N/A
4/26/2019	NZDCAD.fx	3:30:00 PM	0.89663	0.89539			N/A
4/26/2019	NZDCHF	9:30:00 AM	0.67772	0.67837			N/A
4/26/2019	NZDCHF	11:30:00 AM	0.67838	0.67907			N/A
4/26/2019	NZDCHF	1:30:00 PM	0.67846	0.67909			N/A
4/26/2019	NZDCHF	3:30:00 PM	0.67963	0.67944			N/A
4/26/2019	NZDCHF.fx	9:30:00 AM	0.67806	0.67802			N/A
4/26/2019	NZDCHF.fx	11:30:00 AM	0.67872	0.67871			N/A
4/26/2019	NZDCHF.fx	1:30:00 PM	0.6788	0.67874			N/A
4/26/2019	NZDCHF.fx	3:30:00 PM	0.67998	0.67929			N/A
4/26/2019	NZDCZK	9:30:00 AM	15.326	15.338			N/A
4/26/2019	NZDCZK	11:30:00 AM	15.333	15.345			N/A
4/26/2019	NZDCZK	1:30:00 PM	15.321	15.331			N/A
4/26/2019	NZDCZK	3:30:00 PM	15.331	15.33			N/A
4/26/2019	NZDDKK	9:30:00 AM					N/A
4/26/2019	NZDDKK	11:30:00 AM	4.454	4.458			N/A
4/26/2019	NZDDKK	1:30:00 PM	4.455	4.457			N/A
4/26/2019	NZDDKK	3:30:00 PM	4.456	4.457			N/A
4/26/2019	NZDHKD	9:30:00 AM	5.2104	5.2124			N/A
4/26/2019	NZDHKD	11:30:00 AM	5.2135	5.2163			N/A
4/26/2019	NZDHKD	1:30:00 PM	5.2129	5.2156			N/A
4/26/2019	NZDHKD	3:30:00 PM	5.2132	5.2052			N/A

4/26/2019	NZDHUF	9:30:00 AM	191.92	192.2			N/A
4/26/2019	NZDHUF	11:30:00 AM	192.18	192.39			N/A
4/26/2019	NZDHUF	1:30:00 PM	191.95	192.14			N/A
4/26/2019	NZDHUF	3:30:00 PM	192.06	192.24			N/A
4/26/2019	NZDJPY	9:30:00 AM	74.212	74.272			N/A
4/26/2019	NZDJPY	11:30:00 AM	74.228	74.292			N/A
4/26/2019	NZDJPY	1:30:00 PM	74.29	74.359			N/A
4/26/2019	NZDJPY	3:30:00 PM	74.377	74.358			N/A
4/26/2019	NZDJPY.fx	9:30:00 AM	74.244	74.24			N/A
4/26/2019	NZDJPY.fx	11:30:00 AM	74.258	74.259			N/A
4/26/2019	NZDJPY.fx	1:30:00 PM	74.321	74.326			N/A
4/26/2019	NZDJPY.fx	3:30:00 PM	74.407	74.326			N/A
4/26/2019	NZDMXN	9:30:00 AM	12.6498	12.6539			N/A
4/26/2019	NZDMXN	11:30:00 AM	12.652	12.6555			N/A
4/26/2019	NZDMXN	1:30:00 PM	12.6602	12.6638			N/A
4/26/2019	NZDMXN	3:30:00 PM	12.6765	12.6633			N/A
4/26/2019	NZDNOK	9:30:00 AM	5.7558	5.7595			N/A
4/26/2019	NZDNOK	11:30:00 AM	5.7606	5.7632			N/A
4/26/2019	NZDNOK	1:30:00 PM	5.7646	5.7666			N/A
4/26/2019	NZDNOK	3:30:00 PM	5.7697	5.7684			N/A
4/26/2019	NZDPLN	9:30:00 AM	2.5576	2.5589			N/A
4/26/2019	NZDPLN	11:30:00 AM	2.5597	2.5611			N/A
4/26/2019	NZDPLN	1:30:00 PM	2.558	2.5593			N/A
4/26/2019	NZDPLN	3:30:00 PM	2.5595	2.5594			N/A
4/26/2019	NZDSEK	9:30:00 AM	6.3258	6.3317			N/A
4/26/2019	NZDSEK	11:30:00 AM	6.3138	6.3204			N/A
4/26/2019	NZDSEK	1:30:00 PM	6.3162	6.3225			N/A
4/26/2019	NZDSEK	3:30:00 PM	6.3112	6.3112			N/A
4/26/2019	NZDSGD	9:30:00 AM	0.9051	0.9058			N/A
4/26/2019	NZDSGD	11:30:00 AM	0.9059	0.9066			N/A
4/26/2019	NZDSGD	1:30:00 PM	0.9061	0.9067			N/A
4/26/2019	NZDSGD	3:30:00 PM	0.9065	0.9049			N/A
4/26/2019	NZDSGD.fx	9:30:00 AM	0.90509	0.90566			N/A
4/26/2019	NZDSGD.fx	11:30:00 AM	0.90589	0.90646			N/A

4/26/2019	NZDSGD.fx	1:30:00 PM	0.90609	0.90661			N/A
4/26/2019	NZDSGD.fx	3:30:00 PM	0.90642	0.90519			N/A
4/26/2019	NZDUSD	9:30:00 AM	0.66451	0.66458			N/A
4/26/2019	NZDUSD	11:30:00 AM	0.66489	0.66501			N/A
4/26/2019	NZDUSD	1:30:00 PM	0.66491	0.665			N/A
4/26/2019	NZDUSD	3:30:00 PM	0.66515	0.6636			N/A
4/26/2019	NZDUSD.fx	9:30:00 AM	0.66459	0.66459			N/A
4/26/2019	NZDUSD.fx	11:30:00 AM	0.66496	0.66501			N/A
4/26/2019	NZDUSD.fx	1:30:00 PM	0.66498	0.66501			N/A
4/26/2019	NZDUSD.fx	3:30:00 PM	0.66522	0.66371			N/A
4/26/2019	NZDZAR	9:30:00 AM	9.5632	9.5689			N/A
4/26/2019	NZDZAR	11:30:00 AM	9.5519	9.5654			N/A
4/26/2019	NZDZAR	1:30:00 PM	9.572	9.5847			N/A
4/26/2019	NZDZAR	3:30:00 PM	9.5917	9.5459			N/A
4/26/2019	SEKJPY	9:30:00 AM	11.73	11.74			N/A
4/26/2019	SEKJPY	11:30:00 AM					N/A
4/26/2019	SEKJPY	1:30:00 PM					N/A
4/26/2019	SEKJPY	3:30:00 PM	11.78	11.78			N/A
4/26/2019	SEKJPY.fx	9:30:00 AM	11.725	11.738			N/A
4/26/2019	SEKJPY.fx	11:30:00 AM	11.746	11.764			N/A
4/26/2019	SEKJPY.fx	1:30:00 PM	11.752	11.77			N/A
4/26/2019	SEKJPY.fx	3:30:00 PM	11.769	11.781			N/A
4/26/2019	SGDJPY	9:30:00 AM	81.97	82			N/A
4/26/2019	SGDJPY	11:30:00 AM	81.95	81.94			N/A
4/26/2019	SGDJPY	1:30:00 PM	82.01	82			N/A
4/26/2019	SGDJPY	3:30:00 PM	82.13	82.04			N/A
4/26/2019	SILVER	9:30:00 AM	14.81	15.19			N/A
4/26/2019	SILVER	11:30:00 AM	14.84	15.22			N/A
4/26/2019	SILVER	1:30:00 PM	14.82	15.2			N/A
4/26/2019	SILVER	3:30:00 PM	14.78	15.11			N/A
4/26/2019	SPX500.i	9:30:00 AM	2921.86	2922.66			N/A
4/26/2019	SPX500.i	11:30:00 AM	2922.36	2923.16			N/A
4/26/2019	SPX500.i	1:30:00 PM					N/A
4/26/2019	SPX500.i	3:30:00 PM	2930.11	2924.16			N/A

4/26/2019	UK100.i	9:30:00 AM	7444.74	7446.24			N/A
4/26/2019	UK100.i	11:30:00 AM	7425.49	7425.99			N/A
4/26/2019	UK100.i	1:30:00 PM	7432.99	7433.49			N/A
4/26/2019	UK100.i	3:30:00 PM	7441.74	7436.74			N/A
4/26/2019	USDCAD	9:30:00 AM	1.34778	1.34776			N/A
4/26/2019	USDCAD	11:30:00 AM	1.34798	1.34806			N/A
4/26/2019	USDCAD	1:30:00 PM	1.3491	1.34912			N/A
4/26/2019	USDCAD	3:30:00 PM	1.34898	1.3477			N/A
4/26/2019	USDCAD.fx	9:30:00 AM	1.34781	1.34773			N/A
4/26/2019	USDCAD.fx	11:30:00 AM	1.34802	1.34803			N/A
4/26/2019	USDCAD.fx	1:30:00 PM	1.34912	1.34909			N/A
4/26/2019	USDCAD.fx	3:30:00 PM	1.34899	1.34776			N/A
4/26/2019	USDCHF	9:30:00 AM	1.02017	1.0203			N/A
4/26/2019	USDCHF	11:30:00 AM	1.02059	1.02069			N/A
4/26/2019	USDCHF	1:30:00 PM	1.02071	1.02076			N/A
4/26/2019	USDCHF	3:30:00 PM	1.02361	1.02171			N/A
4/26/2019	USDCHF.fx	9:30:00 AM	1.02022	1.02024			N/A
4/26/2019	USDCHF.fx	11:30:00 AM	1.02063	1.02062			N/A
4/26/2019	USDCHF.fx	1:30:00 PM	1.02076	1.02069			N/A
4/26/2019	USDCHF.fx	3:30:00 PM	1.02359	1.02172			N/A
4/26/2019	USDCZK	9:30:00 AM	23.081	23.096			N/A
4/26/2019	USDCZK	11:30:00 AM	23.075	23.096			N/A
4/26/2019	USDCZK	1:30:00 PM	23.058	23.08			N/A
4/26/2019	USDCZK	3:30:00 PM	23.108	23.086			N/A
4/26/2019	USDCZK.fx	9:30:00 AM	23.0896	23.0872			N/A
4/26/2019	USDCZK.fx	11:30:00 AM	23.083	23.0876			N/A
4/26/2019	USDCZK.fx	1:30:00 PM	23.0662	23.071			N/A
4/26/2019	USDCZK.fx	3:30:00 PM	23.111	23.0876			N/A
4/26/2019	USDDKK	9:30:00 AM	6.7013	6.7036			N/A
4/26/2019	USDDKK	11:30:00 AM	6.7004	6.7041			N/A
4/26/2019	USDDKK	1:30:00 PM	6.7022	6.7061			N/A
4/26/2019	USDDKK	3:30:00 PM	6.7167	6.7077			N/A
4/26/2019	USDDKK.fx	9:30:00 AM	6.70177	6.70159			N/A
4/26/2019	USDDKK.fx	11:30:00 AM	6.70087	6.70211			N/A

4/26/2019	USDDKK.fx	1:30:00 PM	6.70277	6.704			N/A
4/26/2019	USDDKK.fx	3:30:00 PM	6.71645	6.70679			N/A
4/26/2019	USDHKD	9:30:00 AM	7.8449	7.845			N/A
4/26/2019	USDHKD	11:30:00 AM	7.8447	7.8448			N/A
4/26/2019	USDHKD	1:30:00 PM	7.8444	7.8448			N/A
4/26/2019	USDHKD	3:30:00 PM	7.8448	7.8446			N/A
4/26/2019	USDHKD.fx	9:30:00 AM	7.8448	7.84522			N/A
4/26/2019	USDHKD.fx	11:30:00 AM	7.84467	7.8452			N/A
4/26/2019	USDHKD.fx	1:30:00 PM	7.84431	7.84479			N/A
4/26/2019	USDHKD.fx	3:30:00 PM	7.84468	7.84503			N/A
4/26/2019	USDHUF	9:30:00 AM	288.94	289.33			N/A
4/26/2019	USDHUF	11:30:00 AM	289.14	289.6			N/A
4/26/2019	USDHUF	1:30:00 PM	288.8	289.27			N/A
4/26/2019	USDHUF	3:30:00 PM	289.55	289.62			N/A
4/26/2019	USDHUF.fx	9:30:00 AM	289.15	289.128			N/A
4/26/2019	USDHUF.fx	11:30:00 AM	289.335	289.395			N/A
4/26/2019	USDHUF.fx	1:30:00 PM	289.003	289.065			N/A
4/26/2019	USDHUF.fx	3:30:00 PM	289.705	289.348			N/A
4/26/2019	USDINR	9:30:00 AM	65.14	75.14			N/A
4/26/2019	USDINR	11:30:00 AM	65.1	75.09			N/A
4/26/2019	USDINR	1:30:00 PM					N/A
4/26/2019	USDINR	3:30:00 PM					N/A
4/26/2019	USDJPY	9:30:00 AM	111.693	111.701			N/A
4/26/2019	USDJPY	11:30:00 AM	111.652	111.66			N/A
4/26/2019	USDJPY	1:30:00 PM	111.756	111.76			N/A
4/26/2019	USDJPY	3:30:00 PM	112.019	111.802	1000	1000	N/A
4/26/2019	USDJPY.fx	9:30:00 AM	111.699	111.693			N/A
4/26/2019	USDJPY.fx	11:30:00 AM	111.659	111.652			N/A
4/26/2019	USDJPY.fx	1:30:00 PM	111.762	111.753			N/A
4/26/2019	USDJPY.fx	3:30:00 PM	112.022	111.803			N/A
4/26/2019	USDMXN	9:30:00 AM	19.044	19.045			N/A
4/26/2019	USDMXN	11:30:00 AM	19.035	19.037			N/A
4/26/2019	USDMXN	1:30:00 PM	19.045	19.054			N/A
4/26/2019	USDMXN	3:30:00 PM	19.101	19.073			N/A

4/26/2019	USDMXN.f	9:30:00 AM	19.0477	19.0421			N/A
4/26/2019	USDMXN.f	11:30:00 AM	19.0387	19.0324			N/A
4/26/2019	USDMXN.f	1:30:00 PM	19.0496	19.0498			N/A
4/26/2019	USDMXN.f	3:30:00 PM	19.1051	19.0687			N/A
4/26/2019	USDNOK	9:30:00 AM	8.6643	8.6706			N/A
4/26/2019	USDNOK	11:30:00 AM	8.6661	8.674			N/A
4/26/2019	USDNOK	1:30:00 PM	8.6736	8.6798			N/A
4/26/2019	USDNOK	3:30:00 PM	8.6968	8.6898			N/A
4/26/2019	USDNOK.fx	9:30:00 AM	8.66812	8.66628			N/A
4/26/2019	USDNOK.fx	11:30:00 AM	8.67027	8.66955			N/A
4/26/2019	USDNOK.fx	1:30:00 PM	8.67736	8.67523			N/A
4/26/2019	USDNOK.fx	3:30:00 PM	8.69955	8.68552			N/A
4/26/2019	USDPLN	9:30:00 AM	3.8507	3.8513			N/A
4/26/2019	USDPLN	11:30:00 AM	3.8507	3.8522			N/A
4/26/2019	USDPLN	1:30:00 PM	3.8488	3.8504			N/A
4/26/2019	USDPLN	3:30:00 PM	3.8583	3.8534			N/A
4/26/2019	USDPLN.fx	9:30:00 AM	3.84986	3.85208			N/A
4/26/2019	USDPLN.fx	11:30:00 AM	3.85004	3.85291			N/A
4/26/2019	USDPLN.fx	1:30:00 PM	3.84798	3.85119			N/A
4/26/2019	USDPLN.fx	3:30:00 PM	3.85664	3.85484			N/A
4/26/2019	USDRUB	9:30:00 AM					N/A
4/26/2019	USDRUB	11:30:00 AM	64.467	64.855			N/A
4/26/2019	USDRUB	1:30:00 PM	64.637	65.015			N/A
4/26/2019	USDRUB	3:30:00 PM	64.686	64.954			N/A
4/26/2019	USDSEK	9:30:00 AM	9.526	9.5261			N/A
4/26/2019	USDSEK	11:30:00 AM	9.5018	9.5057			N/A
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4/26/2019	USDSEK.fx	9:30:00 AM	9.52855	9.52434			N/A
4/26/2019	USDSEK.fx	11:30:00 AM	9.50422	9.504			N/A
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4/26/2019	USDSEK.fx	3:30:00 PM	9.51662	9.50045			N/A
4/26/2019	USDSGD	9:30:00 AM	1.3622	1.3623			N/A
4/26/2019	USDSGD	11:30:00 AM	1.3625	1.3628			N/A

4/26/2019	USDSGD	1:30:00 PM	1.3628	1.3632			N/A
4/26/2019	USDSGD	3:30:00 PM	1.364	1.3632			N/A
4/26/2019	USDSGD.fx	9:30:00 AM	1.36211	1.36248			N/A
4/26/2019	USDSGD.fx	11:30:00 AM	1.36245	1.36287			N/A
4/26/2019	USDSGD.fx	1:30:00 PM	1.36271	1.36318			N/A
4/26/2019	USDSGD.fx	3:30:00 PM	1.36392	1.36308			N/A
4/26/2019	USDZAR	9:30:00 AM	14.4027	14.4003			N/A
4/26/2019	USDZAR	11:30:00 AM	14.3752	14.3909			N/A
4/26/2019	USDZAR	1:30:00 PM	14.4042	14.4233			N/A
4/26/2019	USDZAR	3:30:00 PM	14.4612	14.3915			N/A
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4/26/2019	USDZAR.fx	11:30:00 AM	14.38109	14.38446			N/A
4/26/2019	USDZAR.fx	1:30:00 PM	14.41102	14.41672			N/A
4/26/2019	USDZAR.fx	3:30:00 PM	14.43164	14.43714			N/A
4/26/2019	XAUUSD	9:30:00 AM	1281.33	1281.64			N/A
4/26/2019	XAUUSD	11:30:00 AM	1282.19	1282.52			N/A
4/26/2019	XAUUSD	1:30:00 PM	1280.16	1280.43			N/A
4/26/2019	XAUUSD	3:30:00 PM	1279.14	1274.76			N/A
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4/26/2019	ZARJPY	11:30:00 AM	7.73	7.75			N/A
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4/26/2019	ZARJPY.fx	9:30:00 AM	7.75	7.744			N/A
4/26/2019	ZARJPY.fx	11:30:00 AM	7.752	7.755			N/A
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4/29/2019	#NG.f	3:30:00 PM	2.553	2.572			N/A
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4/29/2019	#QQQ	3:30:00 PM					N/A
4/29/2019	#Ripple	9:30:00 AM	0.3096	0.3135			N/A
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4/29/2019	#Ripple	3:30:00 PM	0.3003	0.3045			N/A

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4/29/2019	#UBS	3:30:00 PM					N/A
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4/29/2019	#UL	11:30:00 AM					N/A
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4/29/2019	#V	3:30:00 PM					N/A
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4/29/2019	#ZNGA	1:30:00 PM					N/A
4/29/2019	#ZNGA	3:30:00 PM					N/A
4/29/2019	AUDCAD	9:30:00 AM	0.94897	0.94964			N/A
4/29/2019	AUDCAD	11:30:00 AM	0.94916	0.94979			N/A
4/29/2019	AUDCAD	1:30:00 PM	0.94942	0.95012			N/A
4/29/2019	AUDCAD	3:30:00 PM	0.94994	0.95043			N/A
4/29/2019	AUDCAD.fx	9:30:00 AM	0.9493	0.94927			N/A
4/29/2019	AUDCAD.fx	11:30:00 AM	0.94949	0.94943			N/A

4/29/2019	AUDCAD.fx	1:30:00 PM	0.94976	0.94978			N/A
4/29/2019	AUDCAD.fx	3:30:00 PM	0.95026	0.95009			N/A
4/29/2019	AUDCHF	9:30:00 AM	0.71878	0.71947			N/A
4/29/2019	AUDCHF	11:30:00 AM	0.71851	0.71921			N/A
4/29/2019	AUDCHF	1:30:00 PM	0.71883	0.71901			N/A
4/29/2019	AUDCHF	3:30:00 PM	0.71929	0.71983			N/A
4/29/2019	AUDCHF.fx	9:30:00 AM	0.71912	0.71912			N/A
4/29/2019	AUDCHF.fx	11:30:00 AM	0.71885	0.71886			N/A
4/29/2019	AUDCHF.fx	1:30:00 PM	0.71916	0.71867			N/A
4/29/2019	AUDCHF.fx	3:30:00 PM	0.71963	0.71949			N/A
4/29/2019	AUDCZK	9:30:00 AM	16.23	16.247			N/A
4/29/2019	AUDCZK	11:30:00 AM	16.203	16.219			N/A
4/29/2019	AUDCZK	1:30:00 PM	16.211	16.227			N/A
4/29/2019	AUDCZK	3:30:00 PM	16.218	16.227			N/A
4/29/2019	AUDDKK	9:30:00 AM	4.7185	4.723			N/A
4/29/2019	AUDDKK	11:30:00 AM	4.7144	4.7191			N/A
4/29/2019	AUDDKK	1:30:00 PM	4.7163	4.7207			N/A
4/29/2019	AUDDKK	3:30:00 PM	4.7164	4.7201			N/A
4/29/2019	AUDHKD	9:30:00 AM	5.5305	5.5343			N/A
4/29/2019	AUDHKD	11:30:00 AM	5.528	5.5317			N/A
4/29/2019	AUDHKD	1:30:00 PM	5.529	5.5325			N/A
4/29/2019	AUDHKD	3:30:00 PM	5.5294	5.5303			N/A
4/29/2019	AUDHUF	9:30:00 AM	203.58	203.81			N/A
4/29/2019	AUDHUF	11:30:00 AM	203.5	203.74			N/A
4/29/2019	AUDHUF	1:30:00 PM	203.73	203.96			N/A
4/29/2019	AUDHUF	3:30:00 PM	203.68	203.78			N/A
4/29/2019	AUDJPY	9:30:00 AM	78.749	78.816			N/A
4/29/2019	AUDJPY	11:30:00 AM	78.789	78.84			N/A
4/29/2019	AUDJPY	1:30:00 PM	78.761	78.833			N/A
4/29/2019	AUDJPY	3:30:00 PM	78.769	78.814			N/A
4/29/2019	AUDJPY.fx	9:30:00 AM	78.782	78.78			N/A
4/29/2019	AUDJPY.fx	11:30:00 AM	78.823	78.804			N/A
4/29/2019	AUDJPY.fx	1:30:00 PM	78.795	78.799			N/A
4/29/2019	AUDJPY.fx	3:30:00 PM	78.803	78.777			N/A

4/29/2019	AUDMXN	9:30:00 AM	13.3399	13.35			N/A
4/29/2019	AUDMXN	11:30:00 AM	13.3283	13.3383			N/A
4/29/2019	AUDMXN	1:30:00 PM	13.3326	13.3421			N/A
4/29/2019	AUDMXN	3:30:00 PM	13.3304	13.3371			N/A
4/29/2019	AUDNOK	9:30:00 AM	6.1203	6.1256			N/A
4/29/2019	AUDNOK	11:30:00 AM	6.1141	6.1193			N/A
4/29/2019	AUDNOK	1:30:00 PM	6.1193	6.1245			N/A
4/29/2019	AUDNOK	3:30:00 PM	6.1198	6.1226			N/A
4/29/2019	AUDNOK.fx	9:30:00 AM	6.1218	6.124			N/A
4/29/2019	AUDNOK.fx	11:30:00 AM	6.1157	6.1175			N/A
4/29/2019	AUDNOK.fx	1:30:00 PM	6.1208	6.1228			N/A
4/29/2019	AUDNOK.fx	3:30:00 PM	6.1213	6.1208			N/A
4/29/2019	AUDNZD	9:30:00 AM	1.05669	1.05757			N/A
4/29/2019	AUDNZD	11:30:00 AM	1.05742	1.05826			N/A
4/29/2019	AUDNZD	1:30:00 PM	1.05729	1.05818			N/A
4/29/2019	AUDNZD	3:30:00 PM	1.05699	1.05772			N/A
4/29/2019	AUDNZD.fx	9:30:00 AM	1.05712	1.05712			N/A
4/29/2019	AUDNZD.fx	11:30:00 AM	1.05787	1.05779			N/A
4/29/2019	AUDNZD.fx	1:30:00 PM	1.05773	1.05773			N/A
4/29/2019	AUDNZD.fx	3:30:00 PM	1.05742	1.05728			N/A
4/29/2019	AUDPLN	9:30:00 AM	2.7143	2.7175			N/A
4/29/2019	AUDPLN	11:30:00 AM	2.7113	2.7142			N/A
4/29/2019	AUDPLN	1:30:00 PM	2.7118	2.7149			N/A
4/29/2019	AUDPLN	3:30:00 PM	2.7118	2.7144			N/A
4/29/2019	AUDSEK	9:30:00 AM	6.7063	6.7096			N/A
4/29/2019	AUDSEK	11:30:00 AM	6.7003	6.703			N/A
4/29/2019	AUDSEK	1:30:00 PM	6.6995	6.7028			N/A
4/29/2019	AUDSEK	3:30:00 PM	6.7061	6.7078			N/A
4/29/2019	AUDSEK.fx	9:30:00 AM	6.7016	6.7141			N/A
4/29/2019	AUDSEK.fx	11:30:00 AM	6.6958	6.7075			N/A
4/29/2019	AUDSEK.fx	1:30:00 PM	6.6949	6.7071			N/A
4/29/2019	AUDSEK.fx	3:30:00 PM	6.7015	6.7121			N/A
4/29/2019	AUDSGD	9:30:00 AM	0.9601	0.9604			N/A
4/29/2019	AUDSGD	11:30:00 AM	0.9598	0.9601			N/A

4/29/2019	AUDSGD	1:30:00 PM	0.9601	0.9603			N/A
4/29/2019	AUDSGD	3:30:00 PM	0.9603	0.9605			N/A
4/29/2019	AUDSGD.fx	9:30:00 AM	0.9602	0.96029			N/A
4/29/2019	AUDSGD.fx	11:30:00 AM	0.95994	0.95999			N/A
4/29/2019	AUDSGD.fx	1:30:00 PM	0.96019	0.96031			N/A
4/29/2019	AUDSGD.fx	3:30:00 PM	0.96037	0.9604			N/A
4/29/2019	AUDUSD	9:30:00 AM	0.70556	0.70563			N/A
4/29/2019	AUDUSD	11:30:00 AM	0.70513	0.70518			N/A
4/29/2019	AUDUSD	1:30:00 PM	0.70517	0.70529			N/A
4/29/2019	AUDUSD	3:30:00 PM	0.70533	0.70516			N/A
4/29/2019	AUDUSD.fx	9:30:00 AM	0.70561	0.70557			N/A
4/29/2019	AUDUSD.fx	11:30:00 AM	0.70519	0.70512			N/A
4/29/2019	AUDUSD.fx	1:30:00 PM	0.70522	0.70523			N/A
4/29/2019	AUDUSD.fx	3:30:00 PM	0.70539	0.70512			N/A
4/29/2019	AUDZAR	9:30:00 AM	10.1036	10.1187			N/A
4/29/2019	AUDZAR	11:30:00 AM	10.0968	10.1031			N/A
4/29/2019	AUDZAR	1:30:00 PM	10.0897	10.0999			N/A
4/29/2019	AUDZAR	3:30:00 PM	10.0846	10.0931			N/A
4/29/2019	AUS200.i	9:30:00 AM					N/A
4/29/2019	AUS200.i	11:30:00 AM	6373.79	6376.69			N/A
4/29/2019	AUS200.i	1:30:00 PM	6362.39	6365.69			N/A
4/29/2019	AUS200.i	3:30:00 PM	6362.69	6366.49			N/A
4/29/2019	BCHUSD	9:30:00 AM	262.56	264.38			N/A
4/29/2019	BCHUSD	11:30:00 AM	261.17	263.12			N/A
4/29/2019	BCHUSD	1:30:00 PM	254.92	254.88			N/A
4/29/2019	BCHUSD	3:30:00 PM	246.16	247.01			N/A
4/29/2019	CADCHF	9:30:00 AM	0.75717	0.75792			N/A
4/29/2019	CADCHF	11:30:00 AM	0.75679	0.75742			N/A
4/29/2019	CADCHF	1:30:00 PM	0.75686	0.75702			N/A
4/29/2019	CADCHF	3:30:00 PM	0.75701	0.75751			N/A
4/29/2019	CADCHF.fx	9:30:00 AM	0.7575	0.75756			N/A
4/29/2019	CADCHF.fx	11:30:00 AM	0.75713	0.75707			N/A
4/29/2019	CADCHF.fx	1:30:00 PM	0.75718	0.75667			N/A
4/29/2019	CADCHF.fx	3:30:00 PM	0.75735	0.75718			N/A

4/29/2019	CADCZK	9:30:00 AM	17.1	17.118			N/A
4/29/2019	CADCZK	11:30:00 AM	17.07	17.084			N/A
4/29/2019	CADCZK	1:30:00 PM	17.071	17.088			N/A
4/29/2019	CADCZK	3:30:00 PM	17.07	17.079			N/A
4/29/2019	CADDDKK	9:30:00 AM					N/A
4/29/2019	CADDDKK	11:30:00 AM	4.966	4.97			N/A
4/29/2019	CADDDKK	1:30:00 PM	4.967	4.97			N/A
4/29/2019	CADDDKK	3:30:00 PM	4.965	4.966			N/A
4/29/2019	CADHKD	9:30:00 AM	5.8277	5.8316			N/A
4/29/2019	CADHKD	11:30:00 AM	5.8229	5.8268			N/A
4/29/2019	CADHKD	1:30:00 PM	5.8221	5.8259			N/A
4/29/2019	CADHKD	3:30:00 PM	5.8198	5.8222			N/A
4/29/2019	CADHUF	9:30:00 AM	214.53	214.69			N/A
4/29/2019	CADHUF	11:30:00 AM	214.41	214.56			N/A
4/29/2019	CADHUF	1:30:00 PM	214.57	214.73			N/A
4/29/2019	CADHUF	3:30:00 PM	214.43	214.44			N/A
4/29/2019	CADJPY	9:30:00 AM	82.956	83.026			N/A
4/29/2019	CADJPY	11:30:00 AM	82.985	83.034			N/A
4/29/2019	CADJPY	1:30:00 PM	82.928	83			N/A
4/29/2019	CADJPY	3:30:00 PM	82.908	82.937			N/A
4/29/2019	CADJPY.fx	9:30:00 AM	82.989	82.99			N/A
4/29/2019	CADJPY.fx	11:30:00 AM	83.018	82.999			N/A
4/29/2019	CADJPY.fx	1:30:00 PM	82.961	82.964			N/A
4/29/2019	CADJPY.fx	3:30:00 PM	82.941	82.901			N/A
4/29/2019	CADMXN	9:30:00 AM	14.0551	14.0666			N/A
4/29/2019	CADMXN	11:30:00 AM	14.04	14.0509			N/A
4/29/2019	CADMXN	1:30:00 PM	14.0393	14.0505			N/A
4/29/2019	CADMXN	3:30:00 PM	14.0318	14.0391			N/A
4/29/2019	CADNOK	9:30:00 AM	6.4457	6.4506			N/A
4/29/2019	CADNOK	11:30:00 AM	6.439	6.4433			N/A
4/29/2019	CADNOK	1:30:00 PM	6.442	6.4467			N/A
4/29/2019	CADNOK	3:30:00 PM	6.4387	6.4407			N/A
4/29/2019	CADPLN	9:30:00 AM	2.8595	2.8613			N/A
4/29/2019	CADPLN	11:30:00 AM	2.8561	2.858			N/A

4/29/2019	CADPLN	1:30:00 PM	2.8556	2.8574			N/A
4/29/2019	CADPLN	3:30:00 PM	2.8541	2.8547			N/A
4/29/2019	CADSEK	9:30:00 AM	7.0623	7.0662			N/A
4/29/2019	CADSEK	11:30:00 AM	7.056	7.0588			N/A
4/29/2019	CADSEK	1:30:00 PM	7.0524	7.0558			N/A
4/29/2019	CADSEK	3:30:00 PM	7.0558	7.0575			N/A
4/29/2019	CADSGD	9:30:00 AM	1.0108	1.0111			N/A
4/29/2019	CADSGD	11:30:00 AM	1.0104	1.0107			N/A
4/29/2019	CADSGD	1:30:00 PM	1.0103	1.0106			N/A
4/29/2019	CADSGD	3:30:00 PM	1.0101	1.0104			N/A
4/29/2019	CADZAR	9:30:00 AM	10.6449	10.6617			N/A
4/29/2019	CADZAR	11:30:00 AM	10.6365	10.6423			N/A
4/29/2019	CADZAR	1:30:00 PM	10.625	10.6362			N/A
4/29/2019	CADZAR	3:30:00 PM	10.6156	10.6253			N/A
4/29/2019	CHFCZK	9:30:00 AM	22.577	22.595			N/A
4/29/2019	CHFCZK	11:30:00 AM	22.549	22.565			N/A
4/29/2019	CHFCZK	1:30:00 PM	22.567	22.565			N/A
4/29/2019	CHFCZK	3:30:00 PM	22.546	22.554			N/A
4/29/2019	CHFDKK	9:30:00 AM	6.563	6.566			N/A
4/29/2019	CHFDKK	11:30:00 AM	6.559	6.562			N/A
4/29/2019	CHFDKK	1:30:00 PM	6.564	6.561			N/A
4/29/2019	CHFDKK	3:30:00 PM	6.556	6.558			N/A
4/29/2019	CHFDKK.fx	9:30:00 AM	6.561	6.5677			N/A
4/29/2019	CHFDKK.fx	11:30:00 AM	6.5577	6.5636			N/A
4/29/2019	CHFDKK.fx	1:30:00 PM	6.5616	6.5631			N/A
4/29/2019	CHFDKK.fx	3:30:00 PM	6.554	6.5588			N/A
4/29/2019	CHFHKD	9:30:00 AM	7.6939	7.6978			N/A
4/29/2019	CHFHKD	11:30:00 AM	7.6925	7.6946			N/A
4/29/2019	CHFHKD	1:30:00 PM	7.696	7.6935			N/A
4/29/2019	CHFHKD	3:30:00 PM	7.686	7.6882			N/A
4/29/2019	CHFHUF	9:30:00 AM	283.12	283.5			N/A
4/29/2019	CHFHUF	11:30:00 AM	283.11	283.5			N/A
4/29/2019	CHFHUF	1:30:00 PM	283.51	283.69			N/A
4/29/2019	CHFHUF	3:30:00 PM	283.08	283.33			N/A

4/29/2019	CHFJPY	9:30:00 AM	109.569	109.635			N/A
4/29/2019	CHFJPY	11:30:00 AM	109.663	109.706			N/A
4/29/2019	CHFJPY	1:30:00 PM	109.66	109.646			N/A
4/29/2019	CHFJPY	3:30:00 PM	109.526	109.575			N/A
4/29/2019	CHFJPY.fx	9:30:00 AM	109.602	109.6			N/A
4/29/2019	CHFJPY.fx	11:30:00 AM	109.697	109.671			N/A
4/29/2019	CHFJPY.fx	1:30:00 PM	109.693	109.612			N/A
4/29/2019	CHFJPY.fx	3:30:00 PM	109.561	109.54			N/A
4/29/2019	CHFMXN	9:30:00 AM	18.555	18.5701			N/A
4/29/2019	CHFMXN	11:30:00 AM	18.544	18.5598			N/A
4/29/2019	CHFMXN	1:30:00 PM	18.5549	18.5568			N/A
4/29/2019	CHFMXN	3:30:00 PM	18.5322	18.5411			N/A
4/29/2019	CHFNOK	9:30:00 AM	8.5101	8.5181			N/A
4/29/2019	CHFNOK	11:30:00 AM	8.505	8.5126			N/A
4/29/2019	CHFNOK	1:30:00 PM	8.5143	8.5161			N/A
4/29/2019	CHFNOK	3:30:00 PM	8.5047	8.5091			N/A
4/29/2019	CHFNOK.fx	9:30:00 AM	8.51348	8.51481			N/A
4/29/2019	CHFNOK.fx	11:30:00 AM	8.50864	8.509			N/A
4/29/2019	CHFNOK.fx	1:30:00 PM	8.51788	8.51239			N/A
4/29/2019	CHFNOK.fx	3:30:00 PM	8.50778	8.50551			N/A
4/29/2019	CHFPLN	9:30:00 AM	3.775	3.778			N/A
4/29/2019	CHFPLN	11:30:00 AM	3.7722	3.775			N/A
4/29/2019	CHFPLN	1:30:00 PM	3.7741	3.7744			N/A
4/29/2019	CHFPLN	3:30:00 PM	3.7701	3.7717			N/A
4/29/2019	CHFPLN.fx	9:30:00 AM	3.77266	3.78027			N/A
4/29/2019	CHFPLN.fx	11:30:00 AM	3.76986	3.77725			N/A
4/29/2019	CHFPLN.fx	1:30:00 PM	3.77184	3.77681			N/A
4/29/2019	CHFPLN.fx	3:30:00 PM	3.76679	3.77404			N/A
4/29/2019	CHFSEK	9:30:00 AM	9.3237	9.3285			N/A
4/29/2019	CHFSEK	11:30:00 AM	9.3192	9.3234			N/A
4/29/2019	CHFSEK	1:30:00 PM	9.3217	9.319			N/A
4/29/2019	CHFSEK	3:30:00 PM	9.3177	9.3199			N/A
4/29/2019	CHFSGD	9:30:00 AM	1.3352	1.3353			N/A
4/29/2019	CHFSGD	11:30:00 AM	1.3352	1.3356			N/A

4/29/2019	CHFSGD	1:30:00 PM	1.336	1.3354			N/A
4/29/2019	CHFSGD	3:30:00 PM	1.3345	1.3348			N/A
4/29/2019	CHFSGD.fx	9:30:00 AM	1.33533	1.33538			N/A
4/29/2019	CHFSGD.fx	11:30:00 AM	1.33543	1.33537			N/A
4/29/2019	CHFSGD.fx	1:30:00 PM	1.33613	1.33524			N/A
4/29/2019	CHFSGD.fx	3:30:00 PM	1.33464	1.33466			N/A
4/29/2019	CHFZAR	9:30:00 AM	14.0565	14.071			N/A
4/29/2019	CHFZAR	11:30:00 AM	14.0523	14.0532			N/A
4/29/2019	CHFZAR	1:30:00 PM	14.039	14.0431			N/A
4/29/2019	CHFZAR	3:30:00 PM	14.0223	14.0284			N/A
4/29/2019	CZKJPY	9:30:00 AM	4.849	4.853			N/A
4/29/2019	CZKJPY	11:30:00 AM	4.859	4.863			N/A
4/29/2019	CZKJPY	1:30:00 PM	4.856	4.859			N/A
4/29/2019	CZKJPY	3:30:00 PM	4.856	4.859			N/A
4/29/2019	DAX30.i	9:30:00 AM	12339.9	12339.4			N/A
4/29/2019	DAX30.i	11:30:00 AM	12371.4	12367.9			N/A
4/29/2019	DAX30.i	1:30:00 PM	12291.4	12290.4			N/A
4/29/2019	DAX30.i	3:30:00 PM	12310.9	12307.4			N/A
4/29/2019	DJ30.i	9:30:00 AM					N/A
4/29/2019	DJ30.i	11:30:00 AM					N/A
4/29/2019	DJ30.i	1:30:00 PM					N/A
4/29/2019	DJ30.i	3:30:00 PM					N/A
4/29/2019	DKKJPY	9:30:00 AM					N/A
4/29/2019	DKKJPY	11:30:00 AM					N/A
4/29/2019	DKKJPY	1:30:00 PM					N/A
4/29/2019	DKKJPY	3:30:00 PM					N/A
4/29/2019	EURAUD	9:30:00 AM	1.58069	1.58108			N/A
4/29/2019	EURAUD	11:30:00 AM	1.58205	1.58241			N/A
4/29/2019	EURAUD	1:30:00 PM	1.58148	1.58194			N/A
4/29/2019	EURAUD	3:30:00 PM	1.58162	1.58169			N/A
4/29/2019	EURAUD.fx	9:30:00 AM	1.58089	1.58088			N/A
4/29/2019	EURAUD.fx	11:30:00 AM	1.58226	1.58219			N/A
4/29/2019	EURAUD.fx	1:30:00 PM	1.58167	1.58172			N/A
4/29/2019	EURAUD.fx	3:30:00 PM	1.58184	1.58149			N/A

4/29/2019	EURCAD	9:30:00 AM	1.50086	1.50174			N/A
4/29/2019	EURCAD	11:30:00 AM	1.50256	1.50319			N/A
4/29/2019	EURCAD	1:30:00 PM	1.5024	1.50329			N/A
4/29/2019	EURCAD	3:30:00 PM	1.50324	1.50366			N/A
4/29/2019	EURCAD.fx	9:30:00 AM	1.50128	1.50132			N/A
4/29/2019	EURCAD.fx	11:30:00 AM	1.50298	1.50277			N/A
4/29/2019	EURCAD.fx	1:30:00 PM	1.50282	1.50286			N/A
4/29/2019	EURCAD.fx	3:30:00 PM	1.50364	1.50324			N/A
4/29/2019	EURCHF	9:30:00 AM	1.13724	1.13736			N/A
4/29/2019	EURCHF	11:30:00 AM	1.13786	1.13792			N/A
4/29/2019	EURCHF	1:30:00 PM	1.13795	1.13722			N/A
4/29/2019	EURCHF	3:30:00 PM	1.13864	1.13838			N/A
4/29/2019	EURCHF.fx	9:30:00 AM	1.13731	1.1373			N/A
4/29/2019	EURCHF.fx	11:30:00 AM	1.13793	1.13785			N/A
4/29/2019	EURCHF.fx	1:30:00 PM	1.13801	1.13715			N/A
4/29/2019	EURCHF.fx	3:30:00 PM	1.1387	1.13834			N/A
4/29/2019	EURCZK	9:30:00 AM	25.664	25.704			N/A
4/29/2019	EURCZK	11:30:00 AM	25.643	25.682			N/A
4/29/2019	EURCZK	1:30:00 PM	25.647	25.685			N/A
4/29/2019	EURCZK	3:30:00 PM	25.655	25.684			N/A
4/29/2019	EURDKK	9:30:00 AM	7.4641	7.4654			N/A
4/29/2019	EURDKK	11:30:00 AM	7.4637	7.465			N/A
4/29/2019	EURDKK	1:30:00 PM					N/A
4/29/2019	EURDKK	3:30:00 PM	7.4645	7.4657			N/A
4/29/2019	EURGBP	9:30:00 AM	0.86274	0.86283			N/A
4/29/2019	EURGBP	11:30:00 AM	0.86225	0.86231			N/A
4/29/2019	EURGBP	1:30:00 PM	0.86291	0.86305			N/A
4/29/2019	EURGBP	3:30:00 PM	0.86377	0.8637			N/A
4/29/2019	EURGBP.fx	9:30:00 AM	0.86279	0.86278			N/A
4/29/2019	EURGBP.fx	11:30:00 AM	0.86228	0.86225			N/A
4/29/2019	EURGBP.fx	1:30:00 PM	0.86295	0.863			N/A
4/29/2019	EURGBP.fx	3:30:00 PM	0.86381	0.86367			N/A
4/29/2019	EURHKD	9:30:00 AM	8.7505	8.7554			N/A
4/29/2019	EURHKD	11:30:00 AM	8.7535	8.7574			N/A

4/29/2019	EURHKD	1:30:00 PM	8.751	8.7562			N/A
4/29/2019	EURHKD	3:30:00 PM	8.7519	8.7532			N/A
4/29/2019	EURHKD.fx	9:30:00 AM	8.75334	8.75246			N/A
4/29/2019	EURHKD.fx	11:30:00 AM	8.75635	8.75455			N/A
4/29/2019	EURHKD.fx	1:30:00 PM	8.75383	8.75334			N/A
4/29/2019	EURHKD.fx	3:30:00 PM	8.75468	8.75061			N/A
4/29/2019	EURHUF	9:30:00 AM	321.93	322.64			N/A
4/29/2019	EURHUF	11:30:00 AM	322.07	322.73			N/A
4/29/2019	EURHUF	1:30:00 PM	322.34	322.95			N/A
4/29/2019	EURHUF	3:30:00 PM	322.23	322.9			N/A
4/29/2019	EURHUF.fx	9:30:00 AM	322.203	322.37			N/A
4/29/2019	EURHUF.fx	11:30:00 AM	322.363	322.506			N/A
4/29/2019	EURHUF.fx	1:30:00 PM	322.621	322.775			N/A
4/29/2019	EURHUF.fx	3:30:00 PM	322.523	322.68			N/A
4/29/2019	EURJPY	9:30:00 AM	124.638	124.644			N/A
4/29/2019	EURJPY	11:30:00 AM	124.805	124.784			N/A
4/29/2019	EURJPY	1:30:00 PM	124.723	124.732			N/A
4/29/2019	EURJPY	3:30:00 PM	124.735	124.686			N/A
4/29/2019	EURJPY.fx	9:30:00 AM	124.639	124.64			N/A
4/29/2019	EURJPY.fx	11:30:00 AM	124.806	124.781			N/A
4/29/2019	EURJPY.fx	1:30:00 PM	124.724	124.728			N/A
4/29/2019	EURJPY.fx	3:30:00 PM	124.739	124.683			N/A
4/29/2019	EURMXN	9:30:00 AM	21.1035	21.1191			N/A
4/29/2019	EURMXN	11:30:00 AM	21.1022	21.1204			N/A
4/29/2019	EURMXN	1:30:00 PM	21.1025	21.121			N/A
4/29/2019	EURMXN	3:30:00 PM	21.1017	21.1099			N/A
4/29/2019	EURMXN.f	9:30:00 AM	21.1126	21.1108			N/A
4/29/2019	EURMXN.f	11:30:00 AM	21.1103	21.1119			N/A
4/29/2019	EURMXN.f	1:30:00 PM	21.1114	21.1122			N/A
4/29/2019	EURMXN.f	3:30:00 PM	21.1102	21.1006			N/A
4/29/2019	EURNOK	9:30:00 AM	9.6768	9.6894			N/A
4/29/2019	EURNOK	11:30:00 AM	9.6758	9.6877			N/A
4/29/2019	EURNOK	1:30:00 PM	9.6806	9.6928			N/A
4/29/2019	EURNOK	3:30:00 PM	9.6796	9.691			N/A

4/29/2019	EURNOK.fx	9:30:00 AM	9.68219	9.68398			N/A
4/29/2019	EURNOK.fx	11:30:00 AM	9.68121	9.68228			N/A
4/29/2019	EURNOK.fx	1:30:00 PM	9.68629	9.68728			N/A
4/29/2019	EURNOK.fx	3:30:00 PM	9.68491	9.68544			N/A
4/29/2019	EURNZD	9:30:00 AM	1.67146	1.67225			N/A
4/29/2019	EURNZD	11:30:00 AM	1.67409	1.67473			N/A
4/29/2019	EURNZD	1:30:00 PM	1.67328	1.67409			N/A
4/29/2019	EURNZD	3:30:00 PM	1.67299	1.67311			N/A
4/29/2019	EURNZD.fx	9:30:00 AM	1.67187	1.67183			N/A
4/29/2019	EURNZD.fx	11:30:00 AM	1.67453	1.6743			N/A
4/29/2019	EURNZD.fx	1:30:00 PM	1.67369	1.67367			N/A
4/29/2019	EURNZD.fx	3:30:00 PM	1.67341	1.67271			N/A
4/29/2019	EURPLN	9:30:00 AM	4.2935	4.2961			N/A
4/29/2019	EURPLN	11:30:00 AM	4.2921	4.2951			N/A
4/29/2019	EURPLN	1:30:00 PM	4.2921	4.2951			N/A
4/29/2019	EURPLN	3:30:00 PM	4.2916	4.2946			N/A
4/29/2019	EURPLN.fx	9:30:00 AM	4.29281	4.29697			N/A
4/29/2019	EURPLN.fx	11:30:00 AM	4.29157	4.2957			N/A
4/29/2019	EURPLN.fx	1:30:00 PM	4.29147	4.29532			N/A
4/29/2019	EURPLN.fx	3:30:00 PM	4.29077	4.29504			N/A
4/29/2019	EURRUB	9:30:00 AM					N/A
4/29/2019	EURRUB	11:30:00 AM	71.833	72.263			N/A
4/29/2019	EURRUB	1:30:00 PM	71.813	72.256			N/A
4/29/2019	EURRUB	3:30:00 PM	71.626	72.036			N/A
4/29/2019	EURSEK	9:30:00 AM	10.6061	10.611			N/A
4/29/2019	EURSEK	11:30:00 AM	10.6057	10.61			N/A
4/29/2019	EURSEK	1:30:00 PM	10.6009	10.6057			N/A
4/29/2019	EURSEK	3:30:00 PM	10.6097	10.6138			N/A
4/29/2019	EURSEK.fx	9:30:00 AM	10.60762	10.60942			N/A
4/29/2019	EURSEK.fx	11:30:00 AM	10.6075	10.60827			N/A
4/29/2019	EURSEK.fx	1:30:00 PM	10.60286	10.60392			N/A
4/29/2019	EURSEK.fx	3:30:00 PM	10.6115	10.61214			N/A
4/29/2019	EURSGD	9:30:00 AM	1.5182	1.5191			N/A
4/29/2019	EURSGD	11:30:00 AM	1.5191	1.5199			N/A

4/29/2019	EURSGD	1:30:00 PM	1.519	1.5199			N/A
4/29/2019	EURSGD	3:30:00 PM	1.5193	1.5198			N/A
4/29/2019	EURSGD.fx	9:30:00 AM	1.51861	1.51867			N/A
4/29/2019	EURSGD.fx	11:30:00 AM	1.51952	1.51946			N/A
4/29/2019	EURSGD.fx	1:30:00 PM	1.51937	1.51947			N/A
4/29/2019	EURSGD.fx	3:30:00 PM	1.51971	1.51943			N/A
4/29/2019	EURUSD	9:30:00 AM	1.11575	1.11582			N/A
4/29/2019	EURUSD	11:30:00 AM	1.11607	1.116			N/A
4/29/2019	EURUSD	1:30:00 PM	1.1157	1.11581			N/A
4/29/2019	EURUSD	3:30:00 PM	1.11589	1.11546			N/A
4/29/2019	EURUSD.fx	9:30:00 AM	1.11596	1.11591			N/A
4/29/2019	EURUSD.fx	11:30:00 AM	1.11628	1.11609			N/A
4/29/2019	EURUSD.fx	1:30:00 PM	1.1159	1.1159			N/A
4/29/2019	EURUSD.fx	3:30:00 PM	1.11609	1.11556			N/A
4/29/2019	EURZAR	9:30:00 AM	15.9874	16.0061			N/A
4/29/2019	EURZAR	11:30:00 AM	15.9911	15.9955			N/A
4/29/2019	EURZAR	1:30:00 PM	15.974	15.9853			N/A
4/29/2019	EURZAR	3:30:00 PM	15.9705	15.9742			N/A
4/29/2019	EURZAR.fx	9:30:00 AM	15.9868	16.00738			N/A
4/29/2019	EURZAR.fx	11:30:00 AM	15.98996	15.99615			N/A
4/29/2019	EURZAR.fx	1:30:00 PM	15.97344	15.98589			N/A
4/29/2019	EURZAR.fx	3:30:00 PM	15.96915	15.9756			N/A
4/29/2019	GBPAUD	9:30:00 AM	1.83265	1.83324			N/A
4/29/2019	GBPAUD	11:30:00 AM	1.8353	1.83583			N/A
4/29/2019	GBPAUD	1:30:00 PM	1.83311	1.83394			N/A
4/29/2019	GBPAUD	3:30:00 PM	1.83142	1.83192			N/A
4/29/2019	GBPAUD.fx	9:30:00 AM	1.83304	1.83284			N/A
4/29/2019	GBPAUD.fx	11:30:00 AM	1.8357	1.83543			N/A
4/29/2019	GBPAUD.fx	1:30:00 PM	1.8335	1.83354			N/A
4/29/2019	GBPAUD.fx	3:30:00 PM	1.8318	1.83153			N/A
4/29/2019	GBPCAD	9:30:00 AM	1.73963	1.74042			N/A
4/29/2019	GBPCAD	11:30:00 AM	1.74258	1.74305			N/A
4/29/2019	GBPCAD	1:30:00 PM	1.74099	1.74182			N/A
4/29/2019	GBPCAD	3:30:00 PM	1.74029	1.7408			N/A

4/29/2019	GBPCAD.fx	9:30:00 AM	1.74002	1.74003			N/A
4/29/2019	GBPCAD.fx	11:30:00 AM	1.74299	1.74266			N/A
4/29/2019	GBPCAD.fx	1:30:00 PM	1.74139	1.74141			N/A
4/29/2019	GBPCAD.fx	3:30:00 PM	1.74066	1.7404			N/A
4/29/2019	GBPCHF	9:30:00 AM	1.31794	1.31837			N/A
4/29/2019	GBPCHF	11:30:00 AM	1.31944	1.31974			N/A
4/29/2019	GBPCHF	1:30:00 PM	1.31843	1.31795			N/A
4/29/2019	GBPCHF	3:30:00 PM	1.31797	1.31818			N/A
4/29/2019	GBPCHF.fx	9:30:00 AM	1.31814	1.31816			N/A
4/29/2019	GBPCHF.fx	11:30:00 AM	1.31964	1.31952			N/A
4/29/2019	GBPCHF.fx	1:30:00 PM	1.31862	1.31775			N/A
4/29/2019	GBPCHF.fx	3:30:00 PM	1.31815	1.31806			N/A
4/29/2019	GBPCZK	9:30:00 AM	29.755	29.777			N/A
4/29/2019	GBPCZK	11:30:00 AM	29.75	29.769			N/A
4/29/2019	GBPCZK	1:30:00 PM	29.73	29.75			N/A
4/29/2019	GBPCZK	3:30:00 PM	29.709	29.721			N/A
4/29/2019	GBPDKK	9:30:00 AM	8.648	8.659			N/A
4/29/2019	GBPDKK	11:30:00 AM	8.653	8.664			N/A
4/29/2019	GBPDKK	1:30:00 PM	8.646	8.657			N/A
4/29/2019	GBPDKK	3:30:00 PM	8.638	8.648			N/A
4/29/2019	GBPDKK.fx	9:30:00 AM	8.6467	8.6595			N/A
4/29/2019	GBPDKK.fx	11:30:00 AM	8.6516	8.6645			N/A
4/29/2019	GBPDKK.fx	1:30:00 PM	8.644	8.6579			N/A
4/29/2019	GBPDKK.fx	3:30:00 PM	8.6375	8.6489			N/A
4/29/2019	GBPHKD	9:30:00 AM	10.1392	10.1443			N/A
4/29/2019	GBPHKD	11:30:00 AM	10.1482	10.1528			N/A
4/29/2019	GBPHKD	1:30:00 PM	10.1385	10.1436			N/A
4/29/2019	GBPHKD	3:30:00 PM	10.1288	10.1294			N/A
4/29/2019	GBPHUF	9:30:00 AM	373.14	373.59			N/A
4/29/2019	GBPHUF	11:30:00 AM	373.55	373.98			N/A
4/29/2019	GBPHUF	1:30:00 PM	373.52	374			N/A
4/29/2019	GBPHUF	3:30:00 PM	373.09	373.33			N/A
4/29/2019	GBPJPY	9:30:00 AM	144.418	144.449			N/A
4/29/2019	GBPJPY	11:30:00 AM	144.687	144.718			N/A

4/29/2019	GBPJPY	1:30:00 PM	144.483	144.526			N/A
4/29/2019	GBPJPY	3:30:00 PM	144.355	144.351			N/A
4/29/2019	GBPJPY.fx	9:30:00 AM	144.438	144.43			N/A
4/29/2019	GBPJPY.fx	11:30:00 AM	144.705	144.697			N/A
4/29/2019	GBPJPY.fx	1:30:00 PM	144.503	144.507			N/A
4/29/2019	GBPJPY.fx	3:30:00 PM	144.374	144.332			N/A
4/29/2019	GBPMXN	9:30:00 AM	24.455	24.4696			N/A
4/29/2019	GBPMXN	11:30:00 AM	24.4689	24.4813			N/A
4/29/2019	GBPMXN	1:30:00 PM	24.4485	24.4626			N/A
4/29/2019	GBPMXN	3:30:00 PM	24.4194	24.4297			N/A
4/29/2019	GBPNOK	9:30:00 AM	11.2174	11.2288			N/A
4/29/2019	GBPNOK	11:30:00 AM	11.2231	11.2332			N/A
4/29/2019	GBPNOK	1:30:00 PM	11.2189	11.2305			N/A
4/29/2019	GBPNOK	3:30:00 PM	11.2088	11.217			N/A
4/29/2019	GBPNOK.fx	9:30:00 AM	11.22237	11.22409			N/A
4/29/2019	GBPNOK.fx	11:30:00 AM	11.2281	11.22829			N/A
4/29/2019	GBPNOK.fx	1:30:00 PM	11.224	11.22549			N/A
4/29/2019	GBPNOK.fx	3:30:00 PM	11.21338	11.21203			N/A
4/29/2019	GBPNZD	9:30:00 AM	1.93734	1.93807			N/A
4/29/2019	GBPNZD	11:30:00 AM	1.94146	1.94195			N/A
4/29/2019	GBPNZD	1:30:00 PM	1.93905	1.93975			N/A
4/29/2019	GBPNZD	3:30:00 PM	1.93669	1.93681			N/A
4/29/2019	GBPNZD.fx	9:30:00 AM	1.93772	1.93768			N/A
4/29/2019	GBPNZD.fx	11:30:00 AM	1.94182	1.94157			N/A
4/29/2019	GBPNZD.fx	1:30:00 PM	1.93941	1.93936			N/A
4/29/2019	GBPNZD.fx	3:30:00 PM	1.93709	1.93645			N/A
4/29/2019	GBPPLN	9:30:00 AM	4.9771	4.9788			N/A
4/29/2019	GBPPLN	11:30:00 AM	4.9788	4.98			N/A
4/29/2019	GBPPLN	1:30:00 PM	4.9746	4.9762			N/A
4/29/2019	GBPPLN	3:30:00 PM	4.9696	4.9707			N/A
4/29/2019	GBPPLN.fx	9:30:00 AM	4.97495	4.98111			N/A
4/29/2019	GBPPLN.fx	11:30:00 AM	4.97664	4.98198			N/A
4/29/2019	GBPPLN.fx	1:30:00 PM	4.97245	4.97803			N/A
4/29/2019	GBPPLN.fx	3:30:00 PM	4.96738	4.97284			N/A

4/29/2019	GBPSEK	9:30:00 AM	12.2911	12.3001			N/A
4/29/2019	GBPSEK	11:30:00 AM	12.2974	12.3059			N/A
4/29/2019	GBPSEK	1:30:00 PM	12.2819	12.292			N/A
4/29/2019	GBPSEK	3:30:00 PM	12.2826	12.289			N/A
4/29/2019	GBPSEK.fx	9:30:00 AM	12.28731	12.30395			N/A
4/29/2019	GBPSEK.fx	11:30:00 AM	12.29389	12.30974			N/A
4/29/2019	GBPSEK.fx	1:30:00 PM	12.27848	12.29545			N/A
4/29/2019	GBPSEK.fx	3:30:00 PM	12.27891	12.29291			N/A
4/29/2019	GBPSGD	9:30:00 AM	1.7599	1.7605			N/A
4/29/2019	GBPSGD	11:30:00 AM	1.7619	1.7626			N/A
4/29/2019	GBPSGD	1:30:00 PM	1.7603	1.7611			N/A
4/29/2019	GBPSGD	3:30:00 PM	1.7589	1.7595			N/A
4/29/2019	GBPSGD.fx	9:30:00 AM	1.75804	1.76234			N/A
4/29/2019	GBPSGD.fx	11:30:00 AM	1.76003	1.76434			N/A
4/29/2019	GBPSGD.fx	1:30:00 PM	1.75844	1.76288			N/A
4/29/2019	GBPSGD.fx	3:30:00 PM	1.75708	1.76138			N/A
4/29/2019	GBPUSD	9:30:00 AM	1.29337	1.29328			N/A
4/29/2019	GBPUSD	11:30:00 AM	1.2944	1.29427			N/A
4/29/2019	GBPUSD	1:30:00 PM	1.29299	1.29303			N/A
4/29/2019	GBPUSD	3:30:00 PM	1.29196	1.29162			N/A
4/29/2019	GBPUSD.fx	9:30:00 AM	1.29343	1.29322			N/A
4/29/2019	GBPUSD.fx	11:30:00 AM	1.29445	1.29421			N/A
4/29/2019	GBPUSD.fx	1:30:00 PM	1.29305	1.29297			N/A
4/29/2019	GBPUSD.fx	3:30:00 PM	1.29202	1.2916			N/A
4/29/2019	GBPZAR	9:30:00 AM	18.527	18.5557			N/A
4/29/2019	GBPZAR	11:30:00 AM	18.5415	18.5543			N/A
4/29/2019	GBPZAR	1:30:00 PM	18.5079	18.5274			N/A
4/29/2019	GBPZAR	3:30:00 PM	18.4848	18.4977			N/A
4/29/2019	GBPZAR.fx	9:30:00 AM	18.5348	18.5484			N/A
4/29/2019	GBPZAR.fx	11:30:00 AM	18.5478	18.5471			N/A
4/29/2019	GBPZAR.fx	1:30:00 PM	18.5149	18.5197			N/A
4/29/2019	GBPZAR.fx	3:30:00 PM	18.4898	18.4906			N/A
4/29/2019	GOLD	9:30:00 AM	1284.21	1284.33	2	2	N/A
4/29/2019	GOLD	11:30:00 AM	1281.88	1281.77			N/A

4/29/2019	GOLD	1:30:00 PM	1282.67	1283.1			N/A
4/29/2019	GOLD	3:30:00 PM	1284.09	1283.61			N/A
4/29/2019	HKDJPY	9:30:00 AM					N/A
4/29/2019	HKDJPY	11:30:00 AM	14.25	14.26			N/A
4/29/2019	HKDJPY	1:30:00 PM					N/A
4/29/2019	HKDJPY	3:30:00 PM	14.24	14.25			N/A
4/29/2019	HKDJPY.fx	9:30:00 AM	14.229	14.237			N/A
4/29/2019	HKDJPY.fx	11:30:00 AM	14.244	14.25			N/A
4/29/2019	HKDJPY.fx	1:30:00 PM	14.237	14.245			N/A
4/29/2019	HKDJPY.fx	3:30:00 PM	14.239	14.242			N/A
4/29/2019	HUFJPY	9:30:00 AM	0.3869	0.3872			N/A
4/29/2019	HUFJPY	11:30:00 AM	0.387	0.3873			N/A
4/29/2019	HUFJPY	1:30:00 PM	0.3867	0.3869			N/A
4/29/2019	HUFJPY	3:30:00 PM	0.3866	0.3869			N/A
4/29/2019	JP225.i	9:30:00 AM	22401.82	22419.32			N/A
4/29/2019	JP225.i	11:30:00 AM	22429.32	22444.32			N/A
4/29/2019	JP225.i	1:30:00 PM	22374.32	22389.32			N/A
4/29/2019	JP225.i	3:30:00 PM	22364.32	22374.32			N/A
4/29/2019	MXNJPY	9:30:00 AM	5.9	5.9			N/A
4/29/2019	MXNJPY	11:30:00 AM	5.9	5.91			N/A
4/29/2019	MXNJPY	1:30:00 PM	5.9	5.91			N/A
4/29/2019	MXNJPY	3:30:00 PM	5.9	5.91			N/A
4/29/2019	NASDAQ.i	9:30:00 AM					N/A
4/29/2019	NASDAQ.i	11:30:00 AM					N/A
4/29/2019	NASDAQ.i	1:30:00 PM					N/A
4/29/2019	NASDAQ.i	3:30:00 PM					N/A
4/29/2019	NOKJPY	9:30:00 AM	12.86	12.89			N/A
4/29/2019	NOKJPY	11:30:00 AM	12.87	12.9			N/A
4/29/2019	NOKJPY	1:30:00 PM					N/A
4/29/2019	NOKJPY	3:30:00 PM	12.87	12.89			N/A
4/29/2019	NOKJPY.fx	9:30:00 AM	12.865	12.872			N/A
4/29/2019	NOKJPY.fx	11:30:00 AM	12.884	12.889			N/A
4/29/2019	NOKJPY.fx	1:30:00 PM	12.869	12.877			N/A
4/29/2019	NOKJPY.fx	3:30:00 PM	12.873	12.876			N/A

4/29/2019	NZDCAD	9:30:00 AM	0.89765	0.89836			N/A
4/29/2019	NZDCAD	11:30:00 AM	0.89721	0.89792			N/A
4/29/2019	NZDCAD	1:30:00 PM	0.89761	0.89826			N/A
4/29/2019	NZDCAD	3:30:00 PM	0.89839	0.8988			N/A
4/29/2019	NZDCAD.fx	9:30:00 AM	0.89799	0.89802			N/A
4/29/2019	NZDCAD.fx	11:30:00 AM	0.89754	0.89758			N/A
4/29/2019	NZDCAD.fx	1:30:00 PM	0.89794	0.89792			N/A
4/29/2019	NZDCAD.fx	3:30:00 PM	0.89871	0.89847			N/A
4/29/2019	NZDCHF	9:30:00 AM	0.6799	0.68061			N/A
4/29/2019	NZDCHF	11:30:00 AM	0.67922	0.67989			N/A
4/29/2019	NZDCHF	1:30:00 PM	0.67957	0.67979			N/A
4/29/2019	NZDCHF	3:30:00 PM	0.68028	0.68075			N/A
4/29/2019	NZDCHF.fx	9:30:00 AM	0.68024	0.68027			N/A
4/29/2019	NZDCHF.fx	11:30:00 AM	0.67956	0.67954			N/A
4/29/2019	NZDCHF.fx	1:30:00 PM	0.6799	0.67942			N/A
4/29/2019	NZDCHF.fx	3:30:00 PM	0.68061	0.68044			N/A
4/29/2019	NZDCZK	9:30:00 AM	15.355	15.367			N/A
4/29/2019	NZDCZK	11:30:00 AM	15.32	15.331			N/A
4/29/2019	NZDCZK	1:30:00 PM	15.329	15.34			N/A
4/29/2019	NZDCZK	3:30:00 PM	15.341	15.344			N/A
4/29/2019	NZDDKK	9:30:00 AM					N/A
4/29/2019	NZDDKK	11:30:00 AM					N/A
4/29/2019	NZDDKK	1:30:00 PM	4.459	4.462			N/A
4/29/2019	NZDDKK	3:30:00 PM	4.461	4.463			N/A
4/29/2019	NZDHKD	9:30:00 AM	5.2324	5.2352			N/A
4/29/2019	NZDHKD	11:30:00 AM	5.2252	5.228			N/A
4/29/2019	NZDHKD	1:30:00 PM	5.2272	5.2298			N/A
4/29/2019	NZDHKD	3:30:00 PM	5.2293	5.2293			N/A
4/29/2019	NZDHUF	9:30:00 AM	192.53	192.82			N/A
4/29/2019	NZDHUF	11:30:00 AM	192.33	192.62			N/A
4/29/2019	NZDHUF	1:30:00 PM	192.57	192.85			N/A
4/29/2019	NZDHUF	3:30:00 PM	192.6	192.75			N/A
4/29/2019	NZDJPY	9:30:00 AM	74.487	74.554			N/A
4/29/2019	NZDJPY	11:30:00 AM	74.47	74.529			N/A

4/29/2019	NZDJPY	1:30:00 PM	74.455	74.525			N/A
4/29/2019	NZDJPY	3:30:00 PM	74.486	74.531			N/A
4/29/2019	NZDJPY.fx	9:30:00 AM	74.519	74.52			N/A
4/29/2019	NZDJPY.fx	11:30:00 AM	74.501	74.497			N/A
4/29/2019	NZDJPY.fx	1:30:00 PM	74.485	74.493			N/A
4/29/2019	NZDJPY.fx	3:30:00 PM	74.517	74.497			N/A
4/29/2019	NZDMXN	9:30:00 AM	12.6204	12.6265			N/A
4/29/2019	NZDMXN	11:30:00 AM	12.6013	12.6059			N/A
4/29/2019	NZDMXN	1:30:00 PM	12.6056	12.6112			N/A
4/29/2019	NZDMXN	3:30:00 PM	12.6085	12.6103			N/A
4/29/2019	NZDNOK	9:30:00 AM	5.7872	5.791			N/A
4/29/2019	NZDNOK	11:30:00 AM	5.778	5.7819			N/A
4/29/2019	NZDNOK	1:30:00 PM	5.7837	5.787			N/A
4/29/2019	NZDNOK	3:30:00 PM	5.7858	5.7857			N/A
4/29/2019	NZDPLN	9:30:00 AM	2.5676	2.569			N/A
4/29/2019	NZDPLN	11:30:00 AM	2.5627	2.5641			N/A
4/29/2019	NZDPLN	1:30:00 PM	2.5638	2.5649			N/A
4/29/2019	NZDPLN	3:30:00 PM	2.5643	2.5645			N/A
4/29/2019	NZDSEK	9:30:00 AM	6.3389	6.3457			N/A
4/29/2019	NZDSEK	11:30:00 AM	6.3296	6.3358			N/A
4/29/2019	NZDSEK	1:30:00 PM	6.3296	6.3361			N/A
4/29/2019	NZDSEK	3:30:00 PM	6.3379	6.3418			N/A
4/29/2019	NZDSGD	9:30:00 AM	0.9081	0.9087			N/A
4/29/2019	NZDSGD	11:30:00 AM	0.9072	0.9078			N/A
4/29/2019	NZDSGD	1:30:00 PM	0.9075	0.908			N/A
4/29/2019	NZDSGD	3:30:00 PM	0.9081	0.9085			N/A
4/29/2019	NZDSGD.fx	9:30:00 AM	0.90809	0.90861			N/A
4/29/2019	NZDSGD.fx	11:30:00 AM	0.90722	0.90777			N/A
4/29/2019	NZDSGD.fx	1:30:00 PM	0.90753	0.90809			N/A
4/29/2019	NZDSGD.fx	3:30:00 PM	0.90807	0.90845			N/A
4/29/2019	NZDUSD	9:30:00 AM	0.6674	0.66743			N/A
4/29/2019	NZDUSD	11:30:00 AM	0.66647	0.6666			N/A
4/29/2019	NZDUSD	1:30:00 PM	0.66662	0.66671			N/A
4/29/2019	NZDUSD	3:30:00 PM	0.66704	0.66682			N/A

4/29/2019	NZDUSD.fx	9:30:00 AM	0.66748	0.66745			N/A
4/29/2019	NZDUSD.fx	11:30:00 AM	0.66654	0.66662			N/A
4/29/2019	NZDUSD.fx	1:30:00 PM	0.66669	0.66673			N/A
4/29/2019	NZDUSD.fx	3:30:00 PM	0.66712	0.66685			N/A
4/29/2019	NZDZAR	9:30:00 AM	9.5563	9.5726			N/A
4/29/2019	NZDZAR	11:30:00 AM	9.5437	9.5507			N/A
4/29/2019	NZDZAR	1:30:00 PM	9.5367	9.5493			N/A
4/29/2019	NZDZAR	3:30:00 PM	9.5364	9.5462			N/A
4/29/2019	SEKJPY	9:30:00 AM	11.75	11.76			N/A
4/29/2019	SEKJPY	11:30:00 AM	11.76	11.77			N/A
4/29/2019	SEKJPY	1:30:00 PM					N/A
4/29/2019	SEKJPY	3:30:00 PM	11.75	11.76			N/A
4/29/2019	SEKJPY.fx	9:30:00 AM	11.739	11.758			N/A
4/29/2019	SEKJPY.fx	11:30:00 AM	11.756	11.772			N/A
4/29/2019	SEKJPY.fx	1:30:00 PM	11.753	11.772			N/A
4/29/2019	SEKJPY.fx	3:30:00 PM	11.745	11.76			N/A
4/29/2019	SGDJPY	9:30:00 AM	82	82.03			N/A
4/29/2019	SGDJPY	11:30:00 AM	82.09	82.1			N/A
4/29/2019	SGDJPY	1:30:00 PM	82.06	82.05			N/A
4/29/2019	SGDJPY	3:30:00 PM	82.01	82.02			N/A
4/29/2019	SILVER	9:30:00 AM	14.83	15.21			N/A
4/29/2019	SILVER	11:30:00 AM	14.79	15.16			N/A
4/29/2019	SILVER	1:30:00 PM	14.8	15.18			N/A
4/29/2019	SILVER	3:30:00 PM	14.8	15.18			N/A
4/29/2019	SPX500.i	9:30:00 AM					N/A
4/29/2019	SPX500.i	11:30:00 AM	2943.59	2944.64			N/A
4/29/2019	SPX500.i	1:30:00 PM	2939.09	2939.89			N/A
4/29/2019	SPX500.i	3:30:00 PM	2940.59	2940.89			N/A
4/29/2019	UK100.i	9:30:00 AM	7443.15	7445.48			N/A
4/29/2019	UK100.i	11:30:00 AM	7439.65	7439.9			N/A
4/29/2019	UK100.i	1:30:00 PM	7423.75	7424.15			N/A
4/29/2019	UK100.i	3:30:00 PM	7448.15	7448.48			N/A
4/29/2019	USDCAD	9:30:00 AM	1.3454	1.3454			N/A
4/29/2019	USDCAD	11:30:00 AM	1.34651	1.34653			N/A

4/29/2019	USDCAD	1:30:00 PM	1.34675	1.3469			N/A
4/29/2019	USDCAD	3:30:00 PM	1.3475	1.34725			N/A
4/29/2019	USDCAD.fx	9:30:00 AM	1.34543	1.34537			N/A
4/29/2019	USDCAD.fx	11:30:00 AM	1.34654	1.34649			N/A
4/29/2019	USDCAD.fx	1:30:00 PM	1.34679	1.34685			N/A
4/29/2019	USDCAD.fx	3:30:00 PM	1.34754	1.34721			N/A
4/29/2019	USDCHF	9:30:00 AM	1.01913	1.01914			N/A
4/29/2019	USDCHF	11:30:00 AM	1.01941	1.01942			N/A
4/29/2019	USDCHF	1:30:00 PM	1.01971	1.01906			N/A
4/29/2019	USDCHF	3:30:00 PM	1.02032	1.02023			N/A
4/29/2019	USDCHF.fx	9:30:00 AM	1.01918	1.01908			N/A
4/29/2019	USDCHF.fx	11:30:00 AM	1.01946	1.01935			N/A
4/29/2019	USDCHF.fx	1:30:00 PM	1.01977	1.019			N/A
4/29/2019	USDCHF.fx	3:30:00 PM	1.02036	1.02017			N/A
4/29/2019	USDCZK	9:30:00 AM	23.023	23.046			N/A
4/29/2019	USDCZK	11:30:00 AM	23.001	23.019			N/A
4/29/2019	USDCZK	1:30:00 PM	23.008	23.031			N/A
4/29/2019	USDCZK	3:30:00 PM	23.02	23.029			N/A
4/29/2019	USDCZK.fx	9:30:00 AM	23.031	23.0381			N/A
4/29/2019	USDCZK.fx	11:30:00 AM	23.0095	23.011			N/A
4/29/2019	USDCZK.fx	1:30:00 PM	23.0172	23.021			N/A
4/29/2019	USDCZK.fx	3:30:00 PM	23.0249	23.02			N/A
4/29/2019	USDDKK	9:30:00 AM	6.6892	6.6934			N/A
4/29/2019	USDDKK	11:30:00 AM	6.6881	6.6911			N/A
4/29/2019	USDDKK	1:30:00 PM	6.6892	6.6932			N/A
4/29/2019	USDDKK	3:30:00 PM	6.6912	6.6922			N/A
4/29/2019	USDDKK.fx	9:30:00 AM	6.68977	6.69103			N/A
4/29/2019	USDDKK.fx	11:30:00 AM	6.68857	6.68902			N/A
4/29/2019	USDDKK.fx	1:30:00 PM	6.68975	6.69123			N/A
4/29/2019	USDDKK.fx	3:30:00 PM	6.69151	6.68982			N/A
4/29/2019	USDHKD	9:30:00 AM	7.8433	7.8437			N/A
4/29/2019	USDHKD	11:30:00 AM	7.8438	7.8442			N/A
4/29/2019	USDHKD	1:30:00 PM	7.8442	7.8444			N/A
4/29/2019	USDHKD	3:30:00 PM	7.8438	7.844			N/A

4/29/2019	USDHKD.fx	9:30:00 AM	7.84329	7.84373			N/A
4/29/2019	USDHKD.fx	11:30:00 AM	7.84379	7.84435			N/A
4/29/2019	USDHKD.fx	1:30:00 PM	7.84408	7.84466			N/A
4/29/2019	USDHKD.fx	3:30:00 PM	7.84383	7.844			N/A
4/29/2019	USDHUF	9:30:00 AM	288.6	289.03			N/A
4/29/2019	USDHUF	11:30:00 AM	288.66	289.09			N/A
4/29/2019	USDHUF	1:30:00 PM	288.95	289.41			N/A
4/29/2019	USDHUF	3:30:00 PM	288.96	289.29			N/A
4/29/2019	USDHUF.fx	9:30:00 AM	288.785	288.835			N/A
4/29/2019	USDHUF.fx	11:30:00 AM	288.868	288.877			N/A
4/29/2019	USDHUF.fx	1:30:00 PM	289.155	289.204			N/A
4/29/2019	USDHUF.fx	3:30:00 PM	289.155	289.087			N/A
4/29/2019	USDINR	9:30:00 AM					N/A
4/29/2019	USDINR	11:30:00 AM					N/A
4/29/2019	USDINR	1:30:00 PM					N/A
4/29/2019	USDINR	3:30:00 PM					N/A
4/29/2019	USDJPY	9:30:00 AM	111.631	111.639			N/A
4/29/2019	USDJPY	11:30:00 AM	111.756	111.748			N/A
4/29/2019	USDJPY	1:30:00 PM	111.708	111.72			N/A
4/29/2019	USDJPY	3:30:00 PM	111.721	111.685			N/A
4/29/2019	USDJPY.fx	9:30:00 AM	111.637	111.632			N/A
4/29/2019	USDJPY.fx	11:30:00 AM	111.762	111.741			N/A
4/29/2019	USDJPY.fx	1:30:00 PM	111.714	111.712			N/A
4/29/2019	USDJPY.fx	3:30:00 PM	111.727	111.677			N/A
4/29/2019	USDMXN	9:30:00 AM	18.915	18.92			N/A
4/29/2019	USDMXN	11:30:00 AM	18.912	18.916			N/A
4/29/2019	USDMXN	1:30:00 PM	18.916	18.922			N/A
4/29/2019	USDMXN	3:30:00 PM	18.918	18.913			N/A
4/29/2019	USDMXN.f	9:30:00 AM	18.9205	18.9169			N/A
4/29/2019	USDMXN.f	11:30:00 AM	18.9152	18.9131			N/A
4/29/2019	USDMXN.f	1:30:00 PM	18.9196	18.9189			N/A
4/29/2019	USDMXN.f	3:30:00 PM	18.9208	18.909			N/A
4/29/2019	USDNOK	9:30:00 AM	8.6731	8.6817			N/A
4/29/2019	USDNOK	11:30:00 AM	8.6703	8.6778			N/A

4/29/2019	USDNOK	1:30:00 PM	8.6761	8.6853			N/A
4/29/2019	USDNOK	3:30:00 PM	8.6782	8.6824			N/A
4/29/2019	USDNOK.fx	9:30:00 AM	8.67686	8.67717			N/A
4/29/2019	USDNOK.fx	11:30:00 AM	8.67438	8.67349			N/A
4/29/2019	USDNOK.fx	1:30:00 PM	8.68028	8.68075			N/A
4/29/2019	USDNOK.fx	3:30:00 PM	8.68166	8.67748			N/A
4/29/2019	USDPLN	9:30:00 AM	3.8483	3.8491			N/A
4/29/2019	USDPLN	11:30:00 AM	3.8463	3.8471			N/A
4/29/2019	USDPLN	1:30:00 PM	3.847	3.848			N/A
4/29/2019	USDPLN	3:30:00 PM	3.8477	3.8472			N/A
4/29/2019	USDPLN.fx	9:30:00 AM	3.84748	3.85002			N/A
4/29/2019	USDPLN.fx	11:30:00 AM	3.84558	3.84787			N/A
4/29/2019	USDPLN.fx	1:30:00 PM	3.84616	3.84873			N/A
4/29/2019	USDPLN.fx	3:30:00 PM	3.84678	3.84817			N/A
4/29/2019	USDRUB	9:30:00 AM					N/A
4/29/2019	USDRUB	11:30:00 AM	64.485	64.865			N/A
4/29/2019	USDRUB	1:30:00 PM	64.48	64.87			N/A
4/29/2019	USDRUB	3:30:00 PM	64.302	64.672			N/A
4/29/2019	USDSEK	9:30:00 AM	9.5042	9.5081			N/A
4/29/2019	USDSEK	11:30:00 AM	9.5018	9.5046			N/A
4/29/2019	USDSEK	1:30:00 PM	9.4995	9.5038			N/A
4/29/2019	USDSEK	3:30:00 PM	9.5079	9.5103			N/A
4/29/2019	USDSEK.fx	9:30:00 AM	9.5068	9.50637			N/A
4/29/2019	USDSEK.fx	11:30:00 AM	9.50455	9.50264			N/A
4/29/2019	USDSEK.fx	1:30:00 PM	9.50243	9.50178			N/A
4/29/2019	USDSEK.fx	3:30:00 PM	9.51086	9.50832			N/A
4/29/2019	USDSGD	9:30:00 AM	1.3607	1.3611			N/A
4/29/2019	USDSGD	11:30:00 AM	1.3612	1.3615			N/A
4/29/2019	USDSGD	1:30:00 PM	1.3614	1.3617			N/A
4/29/2019	USDSGD	3:30:00 PM	1.3617	1.3618			N/A
4/29/2019	USDSGD.fx	9:30:00 AM	1.36066	1.36109			N/A
4/29/2019	USDSGD.fx	11:30:00 AM	1.36119	1.36153			N/A
4/29/2019	USDSGD.fx	1:30:00 PM	1.36134	1.36184			N/A
4/29/2019	USDSGD.fx	3:30:00 PM	1.36174	1.36185			N/A

4/29/2019	USDZAR	9:30:00 AM	14.3283	14.3434			N/A
4/29/2019	USDZAR	11:30:00 AM	14.3281	14.3302			N/A
4/29/2019	USDZAR	1:30:00 PM	14.3152	14.3256			N/A
4/29/2019	USDZAR	3:30:00 PM	14.3127	14.3172			N/A
4/29/2019	USDZAR.fx	9:30:00 AM	14.3339	14.33762			N/A
4/29/2019	USDZAR.fx	11:30:00 AM	14.33447	14.32373			N/A
4/29/2019	USDZAR.fx	1:30:00 PM	14.321	14.31919			N/A
4/29/2019	USDZAR.fx	3:30:00 PM	14.31785	14.31092			N/A
4/29/2019	XAUUSD	9:30:00 AM	1284.21	1284.31			N/A
4/29/2019	XAUUSD	11:30:00 AM	1281.88	1281.73			N/A
4/29/2019	XAUUSD	1:30:00 PM	1282.67	1283.1			N/A
4/29/2019	XAUUSD	3:30:00 PM	1284.08	1283.6			N/A
4/29/2019	ZARJPY	9:30:00 AM	7.76	7.78			N/A
4/29/2019	ZARJPY	11:30:00 AM	7.78	7.79			N/A
4/29/2019	ZARJPY	1:30:00 PM	7.77	7.79			N/A
4/29/2019	ZARJPY	3:30:00 PM	7.78	7.8			N/A
4/29/2019	ZARJPY.fx	9:30:00 AM	7.777	7.781			N/A
4/29/2019	ZARJPY.fx	11:30:00 AM	7.793	7.79			N/A
4/29/2019	ZARJPY.fx	1:30:00 PM	7.793	7.794			N/A
4/29/2019	ZARJPY.fx	3:30:00 PM	7.8	7.795			N/A
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4/30/2019	#AA	11:30:00 AM					N/A
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4/30/2019	#BIDU	3:30:00 PM					N/A
4/30/2019	#Bitcoin	9:30:00 AM	5454.51	5487.11			N/A
4/30/2019	#Bitcoin	11:30:00 AM					N/A
4/30/2019	#Bitcoin	1:30:00 PM	5476.91	5511.71			N/A
4/30/2019	#Bitcoin	3:30:00 PM	5511.46	5545.91			N/A
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4/30/2019	#BK	11:30:00 AM					N/A
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4/30/2019	#CL.f	11:30:00 AM	63.776	63.778			N/A
4/30/2019	#CL.f	1:30:00 PM	64.091	64.124			N/A
4/30/2019	#CL.f	3:30:00 PM	64.577	64.59			N/A
4/30/2019	#CMCSA	9:30:00 AM					N/A
4/30/2019	#CMCSA	11:30:00 AM					N/A
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4/30/2019	#Ethereum	11:30:00 AM	164.32	166.3			N/A
4/30/2019	#Ethereum	1:30:00 PM	164.99	166.91			N/A
4/30/2019	#Ethereum	3:30:00 PM	166.07	167.78			N/A
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4/30/2019	AUDCAD	11:30:00 AM	0.94852	0.94898			N/A
4/30/2019	AUDCAD	1:30:00 PM	0.94799	0.9487			N/A
4/30/2019	AUDCAD	3:30:00 PM	0.94818	0.94739			N/A
4/30/2019	AUDCAD.fx	9:30:00 AM	0.94853	0.94843			N/A
4/30/2019	AUDCAD.fx	11:30:00 AM	0.94885	0.94863			N/A
4/30/2019	AUDCAD.fx	1:30:00 PM	0.94834	0.94836			N/A
4/30/2019	AUDCAD.fx	3:30:00 PM	0.94848	0.94715			N/A
4/30/2019	AUDCHF	9:30:00 AM	0.71692	0.71752			N/A
4/30/2019	AUDCHF	11:30:00 AM	0.71743	0.71793			N/A
4/30/2019	AUDCHF	1:30:00 PM	0.71826	0.71896			N/A
4/30/2019	AUDCHF	3:30:00 PM	0.71825	0.71889			N/A

4/30/2019	AUDCHF.fx	9:30:00 AM	0.71725	0.71717			N/A
4/30/2019	AUDCHF.fx	11:30:00 AM	0.71777	0.71759			N/A
4/30/2019	AUDCHF.fx	1:30:00 PM	0.7186	0.7186			N/A
4/30/2019	AUDCHF.fx	3:30:00 PM	0.71859	0.71855			N/A
4/30/2019	AUDCZK	9:30:00 AM	16.134	16.149			N/A
4/30/2019	AUDCZK	11:30:00 AM	16.132	16.142			N/A
4/30/2019	AUDCZK	1:30:00 PM	16.121	16.137			N/A
4/30/2019	AUDCZK	3:30:00 PM	16.095	16.108			N/A
4/30/2019	AUDDKK	9:30:00 AM	4.6969	4.7011			N/A
4/30/2019	AUDDKK	11:30:00 AM	4.698	4.7003			N/A
4/30/2019	AUDDKK	1:30:00 PM	4.6952	4.6998			N/A
4/30/2019	AUDDKK	3:30:00 PM	4.6871	4.6914			N/A
4/30/2019	AUDHKD	9:30:00 AM	5.5172	5.5211			N/A
4/30/2019	AUDHKD	11:30:00 AM	5.5291	5.5317			N/A
4/30/2019	AUDHKD	1:30:00 PM	5.5282	5.5321			N/A
4/30/2019	AUDHKD	3:30:00 PM	5.5249	5.5273			N/A
4/30/2019	AUDHUF	9:30:00 AM	203.18	203.43			N/A
4/30/2019	AUDHUF	11:30:00 AM	203.15	203.3			N/A
4/30/2019	AUDHUF	1:30:00 PM	202.99	203.22			N/A
4/30/2019	AUDHUF	3:30:00 PM	202.63	202.71			N/A
4/30/2019	AUDJPY	9:30:00 AM	78.366	78.413			N/A
4/30/2019	AUDJPY	11:30:00 AM	78.517	78.533			N/A
4/30/2019	AUDJPY	1:30:00 PM	78.479	78.542			N/A
4/30/2019	AUDJPY	3:30:00 PM	78.43	78.485			N/A
4/30/2019	AUDJPY.fx	9:30:00 AM	78.4	78.378			N/A
4/30/2019	AUDJPY.fx	11:30:00 AM	78.55	78.498			N/A
4/30/2019	AUDJPY.fx	1:30:00 PM	78.513	78.507			N/A
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4/30/2019	AUDMXN	9:30:00 AM	13.3919	13.4007			N/A
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4/30/2019	AUDMXN	1:30:00 PM	13.3912	13.4013			N/A
4/30/2019	AUDMXN	3:30:00 PM	13.37	13.3731			N/A
4/30/2019	AUDNOK	9:30:00 AM	6.097	6.1016			N/A
4/30/2019	AUDNOK	11:30:00 AM	6.0936	6.0972			N/A

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4/30/2019	AUDNOK	3:30:00 PM	6.0734	6.0767			N/A
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4/30/2019	AUDNOK.fx	11:30:00 AM	6.0953	6.0953			N/A
4/30/2019	AUDNOK.fx	1:30:00 PM	6.0871	6.0888			N/A
4/30/2019	AUDNOK.fx	3:30:00 PM	6.0749	6.0751			N/A
4/30/2019	AUDNZD	9:30:00 AM	1.05657	1.05743			N/A
4/30/2019	AUDNZD	11:30:00 AM	1.05642	1.05718			N/A
4/30/2019	AUDNZD	1:30:00 PM	1.0565	1.05738			N/A
4/30/2019	AUDNZD	3:30:00 PM	1.05587	1.0567			N/A
4/30/2019	AUDNZD.fx	9:30:00 AM	1.05701	1.05698			N/A
4/30/2019	AUDNZD.fx	11:30:00 AM	1.05686	1.05672			N/A
4/30/2019	AUDNZD.fx	1:30:00 PM	1.05695	1.05694			N/A
4/30/2019	AUDNZD.fx	3:30:00 PM	1.05631	1.05627			N/A
4/30/2019	AUDPLN	9:30:00 AM	2.7012	2.7042			N/A
4/30/2019	AUDPLN	11:30:00 AM	2.6988	2.7006			N/A
4/30/2019	AUDPLN	1:30:00 PM	2.6968	2.7			N/A
4/30/2019	AUDPLN	3:30:00 PM	2.6902	2.6932			N/A
4/30/2019	AUDSEK	9:30:00 AM	6.6965	6.699			N/A
4/30/2019	AUDSEK	11:30:00 AM	6.6915	6.6928			N/A
4/30/2019	AUDSEK	1:30:00 PM	6.6899	6.6929			N/A
4/30/2019	AUDSEK	3:30:00 PM	6.6815	6.6832			N/A
4/30/2019	AUDSEK.fx	9:30:00 AM	6.692	6.7035			N/A
4/30/2019	AUDSEK.fx	11:30:00 AM	6.6871	6.6969			N/A
4/30/2019	AUDSEK.fx	1:30:00 PM	6.6853	6.6973			N/A
4/30/2019	AUDSEK.fx	3:30:00 PM	6.677	6.6877			N/A
4/30/2019	AUDSGD	9:30:00 AM	0.959	0.9592			N/A
4/30/2019	AUDSGD	11:30:00 AM	0.9599	0.9598			N/A
4/30/2019	AUDSGD	1:30:00 PM	0.9593	0.9592			N/A
4/30/2019	AUDSGD	3:30:00 PM	0.959	0.9591			N/A
4/30/2019	AUDSGD.fx	9:30:00 AM	0.95911	0.95913			N/A
4/30/2019	AUDSGD.fx	11:30:00 AM	0.95999	0.95974			N/A
4/30/2019	AUDSGD.fx	1:30:00 PM	0.95944	0.95956			N/A
4/30/2019	AUDSGD.fx	3:30:00 PM	0.95906	0.95904			N/A

4/30/2019	AUDUSD	9:30:00 AM	0.70371	0.70369			N/A
4/30/2019	AUDUSD	11:30:00 AM	0.70534	0.70512			N/A
4/30/2019	AUDUSD	1:30:00 PM	0.70509	0.70519			N/A
4/30/2019	AUDUSD	3:30:00 PM	0.70463	0.70461			N/A
4/30/2019	AUDUSD.fx	9:30:00 AM	0.70376	0.70364			N/A
4/30/2019	AUDUSD.fx	11:30:00 AM	0.7054	0.70506			N/A
4/30/2019	AUDUSD.fx	1:30:00 PM	0.70512	0.70513			N/A
4/30/2019	AUDUSD.fx	3:30:00 PM	0.70468	0.70456			N/A
4/30/2019	AUDZAR	9:30:00 AM	10.0984	10.1088			N/A
4/30/2019	AUDZAR	11:30:00 AM	10.095	10.1047			N/A
4/30/2019	AUDZAR	1:30:00 PM	10.0812	10.0962			N/A
4/30/2019	AUDZAR	3:30:00 PM	10.0623	10.0709			N/A
4/30/2019	AUS200.i	9:30:00 AM	6327.02	6331.52			N/A
4/30/2019	AUS200.i	11:30:00 AM	6332.52	6335.02			N/A
4/30/2019	AUS200.i	1:30:00 PM	6335.02	6338.52			N/A
4/30/2019	AUS200.i	3:30:00 PM	6337.92	6341.52			N/A
4/30/2019	BCHUSD	9:30:00 AM	245.42	246.96			N/A
4/30/2019	BCHUSD	11:30:00 AM	246.6	248.53			N/A
4/30/2019	BCHUSD	1:30:00 PM	253.62	255.43			N/A
4/30/2019	BCHUSD	3:30:00 PM	256.98	258.37			N/A
4/30/2019	CADCHF	9:30:00 AM	0.75582	0.75655			N/A
4/30/2019	CADCHF	11:30:00 AM	0.75615	0.75679			N/A
4/30/2019	CADCHF	1:30:00 PM	0.75742	0.7581			N/A
4/30/2019	CADCHF	3:30:00 PM	0.75868	0.75787			N/A
4/30/2019	CADCHF.fx	9:30:00 AM	0.75616	0.7562			N/A
4/30/2019	CADCHF.fx	11:30:00 AM	0.7565	0.75643			N/A
4/30/2019	CADCHF.fx	1:30:00 PM	0.75776	0.75775			N/A
4/30/2019	CADCHF.fx	3:30:00 PM	0.75894	0.75756			N/A
4/30/2019	CADCZK	9:30:00 AM	17.012	17.03			N/A
4/30/2019	CADCZK	11:30:00 AM	17.009	17.017			N/A
4/30/2019	CADCZK	1:30:00 PM	17.003	17.018			N/A
4/30/2019	CADCZK	3:30:00 PM	17.003	16.985			N/A
4/30/2019	CADDDKK	9:30:00 AM	4.953	4.957			N/A
4/30/2019	CADDDKK	11:30:00 AM	4.952	4.955			N/A

4/30/2019	CADDDKK	1:30:00 PM	4.953	4.956			N/A
4/30/2019	CADDDKK	3:30:00 PM	4.95	4.944			N/A
4/30/2019	CADHKD	9:30:00 AM	5.8184	5.8223			N/A
4/30/2019	CADHKD	11:30:00 AM	5.8287	5.8322			N/A
4/30/2019	CADHKD	1:30:00 PM	5.8305	5.8343			N/A
4/30/2019	CADHKD	3:30:00 PM	5.8377	5.8286			N/A
4/30/2019	CADHUF	9:30:00 AM	214.29	214.46			N/A
4/30/2019	CADHUF	11:30:00 AM	214.23	214.29			N/A
4/30/2019	CADHUF	1:30:00 PM	214.13	214.27			N/A
4/30/2019	CADHUF	3:30:00 PM	213.99	213.76			N/A
4/30/2019	CADJPY	9:30:00 AM	82.618	82.675			N/A
4/30/2019	CADJPY	11:30:00 AM	82.753	82.785			N/A
4/30/2019	CADJPY	1:30:00 PM	82.752	82.819			N/A
4/30/2019	CADJPY	3:30:00 PM	82.828	82.745			N/A
4/30/2019	CADJPY.fx	9:30:00 AM	82.651	82.639			N/A
4/30/2019	CADJPY.fx	11:30:00 AM	82.785	82.75			N/A
4/30/2019	CADJPY.fx	1:30:00 PM	82.784	82.785			N/A
4/30/2019	CADJPY.fx	3:30:00 PM	82.86	82.712			N/A
4/30/2019	CADMXN	9:30:00 AM	14.1213	14.1327			N/A
4/30/2019	CADMXN	11:30:00 AM	14.1401	14.1496			N/A
4/30/2019	CADMXN	1:30:00 PM	14.1221	14.1347			N/A
4/30/2019	CADMXN	3:30:00 PM	14.1203	14.1039			N/A
4/30/2019	CADNOK	9:30:00 AM	6.4272	6.432			N/A
4/30/2019	CADNOK	11:30:00 AM	6.4225	6.4253			N/A
4/30/2019	CADNOK	1:30:00 PM	6.4164	6.421			N/A
4/30/2019	CADNOK	3:30:00 PM	6.4114	6.403			N/A
4/30/2019	CADPLN	9:30:00 AM	2.848	2.85			N/A
4/30/2019	CADPLN	11:30:00 AM	2.8454	2.8459			N/A
4/30/2019	CADPLN	1:30:00 PM	2.8441	2.8459			N/A
4/30/2019	CADPLN	3:30:00 PM	2.841	2.8371			N/A
4/30/2019	CADSEK	9:30:00 AM	7.059	7.0627			N/A
4/30/2019	CADSEK	11:30:00 AM	7.0526	7.0537			N/A
4/30/2019	CADSEK	1:30:00 PM	7.0533	7.0567			N/A
4/30/2019	CADSEK	3:30:00 PM	7.0566	7.0449			N/A

4/30/2019	CADSGD	9:30:00 AM	1.0108	1.0111			N/A
4/30/2019	CADSGD	11:30:00 AM	1.0112	1.0115			N/A
4/30/2019	CADSGD	1:30:00 PM	1.011	1.0113			N/A
4/30/2019	CADSGD	3:30:00 PM	1.012	1.0111			N/A
4/30/2019	CADZAR	9:30:00 AM	10.6482	10.6611			N/A
4/30/2019	CADZAR	11:30:00 AM	10.6415	10.6534			N/A
4/30/2019	CADZAR	1:30:00 PM	10.6316	10.6485			N/A
4/30/2019	CADZAR	3:30:00 PM	10.6243	10.6213			N/A
4/30/2019	CHFCZK	9:30:00 AM	22.504	22.519			N/A
4/30/2019	CHFCZK	11:30:00 AM	22.488	22.496			N/A
4/30/2019	CHFCZK	1:30:00 PM	22.442	22.457			N/A
4/30/2019	CHFCZK	3:30:00 PM	22.407	22.42			N/A
4/30/2019	CHFDKK	9:30:00 AM	6.55	6.553			N/A
4/30/2019	CHFDKK	11:30:00 AM	6.547	6.548			N/A
4/30/2019	CHFDKK	1:30:00 PM	6.535	6.538			N/A
4/30/2019	CHFDKK	3:30:00 PM	6.524	6.526			N/A
4/30/2019	CHFDKK.fx	9:30:00 AM	6.5485	6.5544			N/A
4/30/2019	CHFDKK.fx	11:30:00 AM	6.5457	6.5495			N/A
4/30/2019	CHFDKK.fx	1:30:00 PM	6.5337	6.5395			N/A
4/30/2019	CHFDKK.fx	3:30:00 PM	6.5223	6.5279			N/A
4/30/2019	CHFHKD	9:30:00 AM	7.6953	7.6984			N/A
4/30/2019	CHFHKD	11:30:00 AM	7.7074	7.7095			N/A
4/30/2019	CHFHKD	1:30:00 PM	7.6959	7.699			N/A
4/30/2019	CHFHKD	3:30:00 PM	7.6913	7.6935			N/A
4/30/2019	CHFHUF	9:30:00 AM	283.35	283.71			N/A
4/30/2019	CHFHUF	11:30:00 AM	283.12	283.4			N/A
4/30/2019	CHFHUF	1:30:00 PM	282.53	282.87			N/A
4/30/2019	CHFHUF	3:30:00 PM	282.02	282.22			N/A
4/30/2019	CHFJPY	9:30:00 AM	109.307	109.356			N/A
4/30/2019	CHFJPY	11:30:00 AM	109.45	109.456			N/A
4/30/2019	CHFJPY	1:30:00 PM	109.265	109.322			N/A
4/30/2019	CHFJPY	3:30:00 PM	109.194	109.253			N/A
4/30/2019	CHFJPY.fx	9:30:00 AM	109.34	109.321			N/A
4/30/2019	CHFJPY.fx	11:30:00 AM	109.483	109.422			N/A

4/30/2019	CHFJPY.fx	1:30:00 PM	109.299	109.287			N/A
4/30/2019	CHFJPY.fx	3:30:00 PM	109.226	109.219			N/A
4/30/2019	CHFMXN	9:30:00 AM	18.6744	18.6911			N/A
4/30/2019	CHFMXN	11:30:00 AM	18.6954	18.7049			N/A
4/30/2019	CHFMXN	1:30:00 PM	18.6385	18.6541			N/A
4/30/2019	CHFMXN	3:30:00 PM	18.6075	18.6187			N/A
4/30/2019	CHFNOK	9:30:00 AM	8.5009	8.5077			N/A
4/30/2019	CHFNOK	11:30:00 AM	8.4911	8.4968			N/A
4/30/2019	CHFNOK	1:30:00 PM	8.4684	8.4759			N/A
4/30/2019	CHFNOK	3:30:00 PM	8.4511	8.4561			N/A
4/30/2019	CHFNOK.fx	9:30:00 AM	8.50435	8.50435			N/A
4/30/2019	CHFNOK.fx	11:30:00 AM	8.49487	8.49316			N/A
4/30/2019	CHFNOK.fx	1:30:00 PM	8.47214	8.47223			N/A
4/30/2019	CHFNOK.fx	3:30:00 PM	8.4545	8.45243			N/A
4/30/2019	CHFPLN	9:30:00 AM	3.7682	3.7709			N/A
4/30/2019	CHFPLN	11:30:00 AM	3.7625	3.7638			N/A
4/30/2019	CHFPLN	1:30:00 PM	3.7546	3.7572			N/A
4/30/2019	CHFPLN	3:30:00 PM	3.7454	3.7483			N/A
4/30/2019	CHFPLN.fx	9:30:00 AM	3.76582	3.77315			N/A
4/30/2019	CHFPLN.fx	11:30:00 AM	3.76034	3.76616			N/A
4/30/2019	CHFPLN.fx	1:30:00 PM	3.75214	3.75953			N/A
4/30/2019	CHFPLN.fx	3:30:00 PM	3.74286	3.75053			N/A
4/30/2019	CHFSEK	9:30:00 AM	9.3357	9.3396			N/A
4/30/2019	CHFSEK	11:30:00 AM	9.3225	9.3254			N/A
4/30/2019	CHFSEK	1:30:00 PM	9.3094	9.3127			N/A
4/30/2019	CHFSEK	3:30:00 PM	9.2965	9.2992			N/A
4/30/2019	CHFSGD	9:30:00 AM	1.3371	1.3376			N/A
4/30/2019	CHFSGD	11:30:00 AM	1.3374	1.3376			N/A
4/30/2019	CHFSGD	1:30:00 PM	1.335	1.3354			N/A
4/30/2019	CHFSGD	3:30:00 PM	1.3345	1.3348			N/A
4/30/2019	CHFSGD.fx	9:30:00 AM	1.33726	1.33736			N/A
4/30/2019	CHFSGD.fx	11:30:00 AM	1.33753	1.33739			N/A
4/30/2019	CHFSGD.fx	1:30:00 PM	1.33523	1.33522			N/A
4/30/2019	CHFSGD.fx	3:30:00 PM	1.33462	1.33468			N/A

4/30/2019	CHFZAR	9:30:00 AM	14.0871	14.0957			N/A
4/30/2019	CHFZAR	11:30:00 AM	14.0731	14.0806			N/A
4/30/2019	CHFZAR	1:30:00 PM	14.0358	14.0493			N/A
4/30/2019	CHFZAR	3:30:00 PM	14.009	14.0174			N/A
4/30/2019	CZKJPY	9:30:00 AM	4.854	4.858			N/A
4/30/2019	CZKJPY	11:30:00 AM	4.865	4.864			N/A
4/30/2019	CZKJPY	1:30:00 PM	4.866	4.87			N/A
4/30/2019	CZKJPY	3:30:00 PM	4.87	4.874			N/A
4/30/2019	DAX30.i	9:30:00 AM	12307.32	12307.07			N/A
4/30/2019	DAX30.i	11:30:00 AM	12319.57	12313.57			N/A
4/30/2019	DAX30.i	1:30:00 PM	12332.57	12331.07			N/A
4/30/2019	DAX30.i	3:30:00 PM	12328.07	12328.32			N/A
4/30/2019	DJ30.i	9:30:00 AM					N/A
4/30/2019	DJ30.i	11:30:00 AM					N/A
4/30/2019	DJ30.i	1:30:00 PM					N/A
4/30/2019	DJ30.i	3:30:00 PM					N/A
4/30/2019	DKKJPY	9:30:00 AM					N/A
4/30/2019	DKKJPY	11:30:00 AM	16.72	16.73			N/A
4/30/2019	DKKJPY	1:30:00 PM					N/A
4/30/2019	DKKJPY	3:30:00 PM	16.74	16.75			N/A
4/30/2019	EURAUD	9:30:00 AM	1.58805	1.58828			N/A
4/30/2019	EURAUD	11:30:00 AM	1.58823	1.58786			N/A
4/30/2019	EURAUD	1:30:00 PM	1.58848	1.58884			N/A
4/30/2019	EURAUD	3:30:00 PM	1.59127	1.59154			N/A
4/30/2019	EURAUD.fx	9:30:00 AM	1.58825	1.58807			N/A
4/30/2019	EURAUD.fx	11:30:00 AM	1.58843	1.58762			N/A
4/30/2019	EURAUD.fx	1:30:00 PM	1.58869	1.58863			N/A
4/30/2019	EURAUD.fx	3:30:00 PM	1.59146	1.59132			N/A
4/30/2019	EURCAD	9:30:00 AM	1.5065	1.50726			N/A
4/30/2019	EURCAD	11:30:00 AM	1.5071	1.50712			N/A
4/30/2019	EURCAD	1:30:00 PM	1.5068	1.5075			N/A
4/30/2019	EURCAD	3:30:00 PM	1.50971	1.5077			N/A
4/30/2019	EURCAD.fx	9:30:00 AM	1.50691	1.50684			N/A
4/30/2019	EURCAD.fx	11:30:00 AM	1.5075	1.5067			N/A

4/30/2019	EURCAD.fx	1:30:00 PM	1.50723	1.50708			N/A
4/30/2019	EURCAD.fx	3:30:00 PM	1.51012	1.50752			N/A
4/30/2019	EURCHF	9:30:00 AM	1.13945	1.13947			N/A
4/30/2019	EURCHF	11:30:00 AM	1.14023	1.13992			N/A
4/30/2019	EURCHF	1:30:00 PM	1.14199	1.14203			N/A
4/30/2019	EURCHF	3:30:00 PM	1.14396	1.14397			N/A
4/30/2019	EURCHF.fx	9:30:00 AM	1.13951	1.13941			N/A
4/30/2019	EURCHF.fx	11:30:00 AM	1.14029	1.13985			N/A
4/30/2019	EURCHF.fx	1:30:00 PM	1.14204	1.14197			N/A
4/30/2019	EURCHF.fx	3:30:00 PM	1.14402	1.14393			N/A
4/30/2019	EURCZK	9:30:00 AM	25.627	25.667			N/A
4/30/2019	EURCZK	11:30:00 AM	25.62	25.658			N/A
4/30/2019	EURCZK	1:30:00 PM	25.616	25.654			N/A
4/30/2019	EURCZK	3:30:00 PM	25.62	25.655			N/A
4/30/2019	EURDKK	9:30:00 AM	7.4639	7.4652			N/A
4/30/2019	EURDKK	11:30:00 AM	7.4636	7.4647			N/A
4/30/2019	EURDKK	1:30:00 PM	7.4636	7.4648			N/A
4/30/2019	EURDKK	3:30:00 PM	7.4613	7.4625			N/A
4/30/2019	EURGBP	9:30:00 AM	0.86429	0.86436			N/A
4/30/2019	EURGBP	11:30:00 AM	0.86346	0.86325			N/A
4/30/2019	EURGBP	1:30:00 PM	0.86257	0.86251			N/A
4/30/2019	EURGBP	3:30:00 PM	0.86221	0.86215			N/A
4/30/2019	EURGBP.fx	9:30:00 AM	0.86433	0.86432			N/A
4/30/2019	EURGBP.fx	11:30:00 AM	0.86349	0.86319			N/A
4/30/2019	EURGBP.fx	1:30:00 PM	0.8626	0.86246			N/A
4/30/2019	EURGBP.fx	3:30:00 PM	0.86223	0.8621			N/A
4/30/2019	EURHKD	9:30:00 AM	8.7691	8.7737			N/A
4/30/2019	EURHKD	11:30:00 AM	8.7896	8.788			N/A
4/30/2019	EURHKD	1:30:00 PM	8.7897	8.7938			N/A
4/30/2019	EURHKD	3:30:00 PM	8.7985	8.8025			N/A
4/30/2019	EURHKD.fx	9:30:00 AM	8.77191	8.77086			N/A
4/30/2019	EURHKD.fx	11:30:00 AM	8.7922	8.7852			N/A
4/30/2019	EURHKD.fx	1:30:00 PM	8.79254	8.79096			N/A
4/30/2019	EURHKD.fx	3:30:00 PM	8.80125	8.79984			N/A

4/30/2019	EURHUF	9:30:00 AM	322.8	323.53			N/A
4/30/2019	EURHUF	11:30:00 AM	322.68	323.34			N/A
4/30/2019	EURHUF	1:30:00 PM	322.55	323.2			N/A
4/30/2019	EURHUF	3:30:00 PM	322.62	323.33			N/A
4/30/2019	EURHUF.fx	9:30:00 AM	323.042	323.275			N/A
4/30/2019	EURHUF.fx	11:30:00 AM	322.969	323.043			N/A
4/30/2019	EURHUF.fx	1:30:00 PM	322.853	322.994			N/A
4/30/2019	EURHUF.fx	3:30:00 PM	322.889	323.051			N/A
4/30/2019	EURJPY	9:30:00 AM	124.587	124.567			N/A
4/30/2019	EURJPY	11:30:00 AM	124.822	124.721			N/A
4/30/2019	EURJPY	1:30:00 PM	124.819	124.804			N/A
4/30/2019	EURJPY	3:30:00 PM	124.951	124.939			N/A
4/30/2019	EURJPY.fx	9:30:00 AM	124.59	124.565			N/A
4/30/2019	EURJPY.fx	11:30:00 AM	124.824	124.717			N/A
4/30/2019	EURJPY.fx	1:30:00 PM	124.82	124.8			N/A
4/30/2019	EURJPY.fx	3:30:00 PM	124.951	124.935			N/A
4/30/2019	EURMXN	9:30:00 AM	21.2816	21.2995			N/A
4/30/2019	EURMXN	11:30:00 AM	21.3158	21.3235			N/A
4/30/2019	EURMXN	1:30:00 PM	21.2886	21.3069			N/A
4/30/2019	EURMXN	3:30:00 PM	21.2885	21.3047			N/A
4/30/2019	EURMXN.fx	9:30:00 AM	21.2909	21.291			N/A
4/30/2019	EURMXN.fx	11:30:00 AM	21.3266	21.3145			N/A
4/30/2019	EURMXN.fx	1:30:00 PM	21.2976	21.2978			N/A
4/30/2019	EURMXN.fx	3:30:00 PM	21.298	21.2959			N/A
4/30/2019	EURNOK	9:30:00 AM	9.6844	9.6964			N/A
4/30/2019	EURNOK	11:30:00 AM	9.6778	9.6883			N/A
4/30/2019	EURNOK	1:30:00 PM	9.6691	9.6815			N/A
4/30/2019	EURNOK	3:30:00 PM	9.666	9.6751			N/A
4/30/2019	EURNOK.fx	9:30:00 AM	9.69001	9.69095			N/A
4/30/2019	EURNOK.fx	11:30:00 AM	9.6833	9.68282			N/A
4/30/2019	EURNOK.fx	1:30:00 PM	9.6745	9.67608			N/A
4/30/2019	EURNOK.fx	3:30:00 PM	9.67142	9.66971			N/A
4/30/2019	EURNZD	9:30:00 AM	1.67898	1.67978			N/A
4/30/2019	EURNZD	11:30:00 AM	1.67888	1.67884			N/A

4/30/2019	EURNZD	1:30:00 PM	1.6794	1.6801			N/A
4/30/2019	EURNZD	3:30:00 PM	1.68144	1.6818			N/A
4/30/2019	EURNZD.fx	9:30:00 AM	1.6794	1.67936			N/A
4/30/2019	EURNZD.fx	11:30:00 AM	1.67932	1.6784			N/A
4/30/2019	EURNZD.fx	1:30:00 PM	1.67982	1.67965			N/A
4/30/2019	EURNZD.fx	3:30:00 PM	1.68183	1.68146			N/A
4/30/2019	EURPLN	9:30:00 AM	4.2934	4.2966			N/A
4/30/2019	EURPLN	11:30:00 AM	4.2887	4.2916			N/A
4/30/2019	EURPLN	1:30:00 PM	4.2876	4.2908			N/A
4/30/2019	EURPLN	3:30:00 PM	4.2844	4.2877			N/A
4/30/2019	EURPLN.fx	9:30:00 AM	4.29271	4.29712			N/A
4/30/2019	EURPLN.fx	11:30:00 AM	4.28807	4.29205			N/A
4/30/2019	EURPLN.fx	1:30:00 PM	4.28695	4.29132			N/A
4/30/2019	EURPLN.fx	3:30:00 PM	4.28388	4.28842			N/A
4/30/2019	EURRUB	9:30:00 AM					N/A
4/30/2019	EURRUB	11:30:00 AM	72.001	72.398			N/A
4/30/2019	EURRUB	1:30:00 PM	71.903	72.344			N/A
4/30/2019	EURRUB	3:30:00 PM	71.908	72.335			N/A
4/30/2019	EURSEK	9:30:00 AM	10.6389	10.6438			N/A
4/30/2019	EURSEK	11:30:00 AM	10.6294	10.6331			N/A
4/30/2019	EURSEK	1:30:00 PM	10.6318	10.6368			N/A
4/30/2019	EURSEK	3:30:00 PM	10.6378	10.6396			N/A
4/30/2019	EURSEK.fx	9:30:00 AM	10.64053	10.64217			N/A
4/30/2019	EURSEK.fx	11:30:00 AM	10.63106	10.63105			N/A
4/30/2019	EURSEK.fx	1:30:00 PM	10.63346	10.63522			N/A
4/30/2019	EURSEK.fx	3:30:00 PM	10.6385	10.63788			N/A
4/30/2019	EURSGD	9:30:00 AM	1.5235	1.5242			N/A
4/30/2019	EURSGD	11:30:00 AM	1.5248	1.5249			N/A
4/30/2019	EURSGD	1:30:00 PM	1.5246	1.5252			N/A
4/30/2019	EURSGD	3:30:00 PM	1.5265	1.5272			N/A
4/30/2019	EURSGD.fx	9:30:00 AM	1.52383	1.52381			N/A
4/30/2019	EURSGD.fx	11:30:00 AM	1.52521	1.52448			N/A
4/30/2019	EURSGD.fx	1:30:00 PM	1.52497	1.52482			N/A
4/30/2019	EURSGD.fx	3:30:00 PM	1.52688	1.5268			N/A

4/30/2019	EURUSD	9:30:00 AM	1.11785	1.11785		500	N/A
4/30/2019	EURUSD	11:30:00 AM	1.12053	1.11976	10	200	N/A
4/30/2019	EURUSD	1:30:00 PM	1.12053	1.12049			N/A
4/30/2019	EURUSD	3:30:00 PM	1.1217	1.1216			N/A
4/30/2019	EURUSD.fx	9:30:00 AM	1.11806	1.11795			N/A
4/30/2019	EURUSD.fx	11:30:00 AM	1.12073	1.11986			N/A
4/30/2019	EURUSD.fx	1:30:00 PM	1.12073	1.12059			N/A
4/30/2019	EURUSD.fx	3:30:00 PM	1.12189	1.12171			N/A
4/30/2019	EURZAR	9:30:00 AM	16.0533	16.0671			N/A
4/30/2019	EURZAR	11:30:00 AM	16.0427	16.0569			N/A
4/30/2019	EURZAR	1:30:00 PM	16.0308	16.0487			N/A
4/30/2019	EURZAR	3:30:00 PM	16.0273	16.044			N/A
4/30/2019	EURZAR.fx	9:30:00 AM	16.05267	16.06803			N/A
4/30/2019	EURZAR.fx	11:30:00 AM	16.04232	16.0574			N/A
4/30/2019	EURZAR.fx	1:30:00 PM	16.03018	16.04844			N/A
4/30/2019	EURZAR.fx	3:30:00 PM	16.02778	16.04489			N/A
4/30/2019	GBPAUD	9:30:00 AM	1.83772	1.83839			N/A
4/30/2019	GBPAUD	11:30:00 AM	1.83991	1.84			N/A
4/30/2019	GBPAUD	1:30:00 PM	1.84217	1.84263			N/A
4/30/2019	GBPAUD	3:30:00 PM	1.8463	1.84655			N/A
4/30/2019	GBPAUD.fx	9:30:00 AM	1.83811	1.838			N/A
4/30/2019	GBPAUD.fx	11:30:00 AM	1.84029	1.8396			N/A
4/30/2019	GBPAUD.fx	1:30:00 PM	1.84258	1.84224			N/A
4/30/2019	GBPAUD.fx	3:30:00 PM	1.8467	1.84616			N/A
4/30/2019	GBPCAD	9:30:00 AM	1.74299	1.74376			N/A
4/30/2019	GBPCAD	11:30:00 AM	1.74532	1.74591			N/A
4/30/2019	GBPCAD	1:30:00 PM	1.747	1.74748			N/A
4/30/2019	GBPCAD	3:30:00 PM	1.75092	1.74857			N/A
4/30/2019	GBPCAD.fx	9:30:00 AM	1.74336	1.74337			N/A
4/30/2019	GBPCAD.fx	11:30:00 AM	1.7457	1.74553			N/A
4/30/2019	GBPCAD.fx	1:30:00 PM	1.74738	1.74709			N/A
4/30/2019	GBPCAD.fx	3:30:00 PM	1.75134	1.74851			N/A
4/30/2019	GBPCHF	9:30:00 AM	1.31813	1.31852			N/A
4/30/2019	GBPCHF	11:30:00 AM	1.32037	1.3207			N/A

4/30/2019	GBPCHE	1:30:00 PM	1.32395	1.32404			N/A
4/30/2019	GBPCHE	3:30:00 PM	1.32684	1.32697			N/A
4/30/2019	GBPCHE.fx	9:30:00 AM	1.3183	1.31832			N/A
4/30/2019	GBPCHE.fx	11:30:00 AM	1.32056	1.32049			N/A
4/30/2019	GBPCHE.fx	1:30:00 PM	1.32414	1.32383			N/A
4/30/2019	GBPCHE.fx	3:30:00 PM	1.32703	1.32678			N/A
4/30/2019	GBPCZK	9:30:00 AM	29.66	29.682			N/A
4/30/2019	GBPCZK	11:30:00 AM	29.689	29.701			N/A
4/30/2019	GBPCZK	1:30:00 PM	29.711	29.726			N/A
4/30/2019	GBPCZK	3:30:00 PM	29.727	29.741			N/A
4/30/2019	GBPDKK	9:30:00 AM	8.633	8.643			N/A
4/30/2019	GBPDKK	11:30:00 AM	8.643	8.651			N/A
4/30/2019	GBPDKK	1:30:00 PM	8.651	8.661			N/A
4/30/2019	GBPDKK	3:30:00 PM	8.654	8.664			N/A
4/30/2019	GBPDKK.fx	9:30:00 AM	8.6307	8.6438			N/A
4/30/2019	GBPDKK.fx	11:30:00 AM	8.6415	8.6518			N/A
4/30/2019	GBPDKK.fx	1:30:00 PM	8.6492	8.6604			N/A
4/30/2019	GBPDKK.fx	3:30:00 PM	8.6528	8.6639			N/A
4/30/2019	GBPHKD	9:30:00 AM	10.1426	10.1474			N/A
4/30/2019	GBPHKD	11:30:00 AM	10.1758	10.1785			N/A
4/30/2019	GBPHKD	1:30:00 PM	10.1876	10.1906			N/A
4/30/2019	GBPHKD	3:30:00 PM	10.2026	10.2061			N/A
4/30/2019	GBPHUF	9:30:00 AM	373.46	373.93			N/A
4/30/2019	GBPHUF	11:30:00 AM	373.82	374.13			N/A
4/30/2019	GBPHUF	1:30:00 PM	374.01	374.41			N/A
4/30/2019	GBPHUF	3:30:00 PM	374.18	374.36			N/A
4/30/2019	GBPJPY	9:30:00 AM	144.101	144.116			N/A
4/30/2019	GBPJPY	11:30:00 AM	144.522	144.487			N/A
4/30/2019	GBPJPY	1:30:00 PM	144.67	144.671			N/A
4/30/2019	GBPJPY	3:30:00 PM	144.891	144.896			N/A
4/30/2019	GBPJPY.fx	9:30:00 AM	144.119	144.096			N/A
4/30/2019	GBPJPY.fx	11:30:00 AM	144.539	144.468			N/A
4/30/2019	GBPJPY.fx	1:30:00 PM	144.689	144.652			N/A
4/30/2019	GBPJPY.fx	3:30:00 PM	144.911	144.877			N/A

4/30/2019	GBPMXN	9:30:00 AM	24.6174	24.6324			N/A
4/30/2019	GBPMXN	11:30:00 AM	24.6853	24.6924			N/A
4/30/2019	GBPMXN	1:30:00 PM	24.677	24.6878			N/A
4/30/2019	GBPMXN	3:30:00 PM	24.6865	24.6943			N/A
4/30/2019	GBPNOK	9:30:00 AM	11.206	11.2168			N/A
4/30/2019	GBPNOK	11:30:00 AM	11.2119	11.2209			N/A
4/30/2019	GBPNOK	1:30:00 PM	11.2125	11.2221			N/A
4/30/2019	GBPNOK	3:30:00 PM	11.2129	11.219			N/A
4/30/2019	GBPNOK.fx	9:30:00 AM	11.21051	11.21198			N/A
4/30/2019	GBPNOK.fx	11:30:00 AM	11.21668	11.21603			N/A
4/30/2019	GBPNOK.fx	1:30:00 PM	11.21737	11.21704			N/A
4/30/2019	GBPNOK.fx	3:30:00 PM	11.21718	11.21423			N/A
4/30/2019	GBPNZD	9:30:00 AM	1.94247	1.94317			N/A
4/30/2019	GBPNZD	11:30:00 AM	1.94435	1.94451			N/A
4/30/2019	GBPNZD	1:30:00 PM	1.94717	1.94753			N/A
4/30/2019	GBPNZD	3:30:00 PM	1.95015	1.95057			N/A
4/30/2019	GBPNZD.fx	9:30:00 AM	1.94284	1.94278			N/A
4/30/2019	GBPNZD.fx	11:30:00 AM	1.94471	1.9441			N/A
4/30/2019	GBPNZD.fx	1:30:00 PM	1.94755	1.94715			N/A
4/30/2019	GBPNZD.fx	3:30:00 PM	1.95051	1.9502			N/A
4/30/2019	GBPPLN	9:30:00 AM	4.968	4.9693			N/A
4/30/2019	GBPPLN	11:30:00 AM	4.9688	4.9687			N/A
4/30/2019	GBPPLN	1:30:00 PM	4.972	4.9732			N/A
4/30/2019	GBPPLN	3:30:00 PM	4.9704	4.9713			N/A
4/30/2019	GBPPLN.fx	9:30:00 AM	4.96585	4.97165			N/A
4/30/2019	GBPPLN.fx	11:30:00 AM	4.96664	4.97077			N/A
4/30/2019	GBPPLN.fx	1:30:00 PM	4.96996	4.97522			N/A
4/30/2019	GBPPLN.fx	3:30:00 PM	4.96815	4.97353			N/A
4/30/2019	GBPSEK	9:30:00 AM	12.3074	12.3165			N/A
4/30/2019	GBPSEK	11:30:00 AM	12.311	12.3173			N/A
4/30/2019	GBPSEK	1:30:00 PM	12.3255	12.3328			N/A
4/30/2019	GBPSEK	3:30:00 PM	12.3357	12.3422			N/A
4/30/2019	GBPSEK.fx	9:30:00 AM	12.30372	12.32025			N/A
4/30/2019	GBPSEK.fx	11:30:00 AM	12.30754	12.3209			N/A

4/30/2019	GBPSEK.fx	1:30:00 PM	12.32179	12.33624			N/A
4/30/2019	GBPSEK.fx	3:30:00 PM	12.33104	12.3459			N/A
4/30/2019	GBPSGD	9:30:00 AM	1.7627	1.7635			N/A
4/30/2019	GBPSGD	11:30:00 AM	1.766	1.7665			N/A
4/30/2019	GBPSGD	1:30:00 PM	1.7677	1.768			N/A
4/30/2019	GBPSGD	3:30:00 PM	1.7707	1.7712			N/A
4/30/2019	GBPSGD.fx	9:30:00 AM	1.76083	1.76525			N/A
4/30/2019	GBPSGD.fx	11:30:00 AM	1.76413	1.76826			N/A
4/30/2019	GBPSGD.fx	1:30:00 PM	1.76583	1.76982			N/A
4/30/2019	GBPSGD.fx	3:30:00 PM	1.76885	1.77309			N/A
4/30/2019	GBPUSD	9:30:00 AM	1.29343	1.29343			N/A
4/30/2019	GBPUSD	11:30:00 AM	1.29775	1.29735			N/A
4/30/2019	GBPUSD	1:30:00 PM	1.29929	1.299			N/A
4/30/2019	GBPUSD	3:30:00 PM	1.30121	1.30104			N/A
4/30/2019	GBPUSD.fx	9:30:00 AM	1.29348	1.29338			N/A
4/30/2019	GBPUSD.fx	11:30:00 AM	1.2978	1.29729			N/A
4/30/2019	GBPUSD.fx	1:30:00 PM	1.29934	1.29894			N/A
4/30/2019	GBPUSD.fx	3:30:00 PM	1.30126	1.30099			N/A
4/30/2019	GBPZAR	9:30:00 AM	18.5708	18.5919			N/A
4/30/2019	GBPZAR	11:30:00 AM	18.5818	18.6018			N/A
4/30/2019	GBPZAR	1:30:00 PM	18.5824	18.6097			N/A
4/30/2019	GBPZAR	3:30:00 PM	18.5867	18.6129			N/A
4/30/2019	GBPZAR.fx	9:30:00 AM	18.5775	18.5852			N/A
4/30/2019	GBPZAR.fx	11:30:00 AM	18.5896	18.5948			N/A
4/30/2019	GBPZAR.fx	1:30:00 PM	18.589	18.6033			N/A
4/30/2019	GBPZAR.fx	3:30:00 PM	18.5944	18.6052			N/A
4/30/2019	GOLD	9:30:00 AM	1282.85	1283.12			N/A
4/30/2019	GOLD	11:30:00 AM	1284.23	1284.52			N/A
4/30/2019	GOLD	1:30:00 PM	1284.87	1285.26			N/A
4/30/2019	GOLD	3:30:00 PM	1283.31	1282.69			N/A
4/30/2019	HKDJPY	9:30:00 AM	14.2	14.21			N/A
4/30/2019	HKDJPY	11:30:00 AM					N/A
4/30/2019	HKDJPY	1:30:00 PM					N/A
4/30/2019	HKDJPY	3:30:00 PM					N/A

4/30/2019	HKDJPY.fx	9:30:00 AM	14.194	14.2			N/A
4/30/2019	HKDJPY.fx	11:30:00 AM	14.189	14.194			N/A
4/30/2019	HKDJPY.fx	1:30:00 PM	14.186	14.194			N/A
4/30/2019	HKDJPY.fx	3:30:00 PM	14.188	14.194			N/A
4/30/2019	HUFJPY	9:30:00 AM	0.3857	0.386			N/A
4/30/2019	HUFJPY	11:30:00 AM	0.386	0.3863			N/A
4/30/2019	HUFJPY	1:30:00 PM	0.3865	0.3868			N/A
4/30/2019	HUFJPY	3:30:00 PM	0.3869	0.3872			N/A
4/30/2019	JP225.i	9:30:00 AM	22324.29	22339.29			N/A
4/30/2019	JP225.i	11:30:00 AM	22334.29	22343.46			N/A
4/30/2019	JP225.i	1:30:00 PM	22339.29	22354.29			N/A
4/30/2019	JP225.i	3:30:00 PM	22364.29	22374.29			N/A
4/30/2019	MXNJPY	9:30:00 AM	5.84	5.85			N/A
4/30/2019	MXNJPY	11:30:00 AM	5.84	5.85			N/A
4/30/2019	MXNJPY	1:30:00 PM	5.85	5.86			N/A
4/30/2019	MXNJPY	3:30:00 PM	5.86	5.87			N/A
4/30/2019	NASDAQ.i	9:30:00 AM					N/A
4/30/2019	NASDAQ.i	11:30:00 AM					N/A
4/30/2019	NASDAQ.i	1:30:00 PM					N/A
4/30/2019	NASDAQ.i	3:30:00 PM					N/A
4/30/2019	NOKJPY	9:30:00 AM	12.84	12.87			N/A
4/30/2019	NOKJPY	11:30:00 AM	12.88	12.9			N/A
4/30/2019	NOKJPY	1:30:00 PM	12.89	12.92			N/A
4/30/2019	NOKJPY	3:30:00 PM	12.9	12.93			N/A
4/30/2019	NOKJPY.fx	9:30:00 AM	12.851	12.856			N/A
4/30/2019	NOKJPY.fx	11:30:00 AM	12.885	12.881			N/A
4/30/2019	NOKJPY.fx	1:30:00 PM	12.894	12.899			N/A
4/30/2019	NOKJPY.fx	3:30:00 PM	12.915	12.918			N/A
4/30/2019	NZDCAD	9:30:00 AM	0.897	0.89767			N/A
4/30/2019	NZDCAD	11:30:00 AM	0.89746	0.89805			N/A
4/30/2019	NZDCAD	1:30:00 PM	0.89691	0.8976			N/A
4/30/2019	NZDCAD	3:30:00 PM	0.89766	0.89686			N/A
4/30/2019	NZDCAD.fx	9:30:00 AM	0.89732	0.89734			N/A
4/30/2019	NZDCAD.fx	11:30:00 AM	0.89779	0.89771			N/A

4/30/2019	NZDCAD.fx	1:30:00 PM	0.89724	0.89727			N/A
4/30/2019	NZDCAD.fx	3:30:00 PM	0.89798	0.89689			N/A
4/30/2019	NZDCHF	9:30:00 AM	0.67817	0.67887			N/A
4/30/2019	NZDCHF	11:30:00 AM	0.67882	0.6794			N/A
4/30/2019	NZDCHF	1:30:00 PM	0.67956	0.68025			N/A
4/30/2019	NZDCHF	3:30:00 PM	0.68007	0.68056			N/A
4/30/2019	NZDCHF.fx	9:30:00 AM	0.67851	0.67852			N/A
4/30/2019	NZDCHF.fx	11:30:00 AM	0.67915	0.67904			N/A
4/30/2019	NZDCHF.fx	1:30:00 PM	0.67989	0.6799			N/A
4/30/2019	NZDCHF.fx	3:30:00 PM	0.68036	0.68022			N/A
4/30/2019	NZDCZK	9:30:00 AM					N/A
4/30/2019	NZDCZK	11:30:00 AM	15.267	15.273			N/A
4/30/2019	NZDCZK	1:30:00 PM	15.255	15.265			N/A
4/30/2019	NZDCZK	3:30:00 PM	15.24	15.248			N/A
4/30/2019	NZDDKK	9:30:00 AM	4.444	4.447			N/A
4/30/2019	NZDDKK	11:30:00 AM	4.444	4.447			N/A
4/30/2019	NZDDKK	1:30:00 PM	4.443	4.446			N/A
4/30/2019	NZDDKK	3:30:00 PM	4.437	4.439			N/A
4/30/2019	NZDHKD	9:30:00 AM	5.2198	5.2227			N/A
4/30/2019	NZDHKD	11:30:00 AM	5.2322	5.2342			N/A
4/30/2019	NZDHKD	1:30:00 PM	5.2307	5.2331			N/A
4/30/2019	NZDHKD	3:30:00 PM	5.2314	5.232			N/A
4/30/2019	NZDHUF	9:30:00 AM	192.18	192.48			N/A
4/30/2019	NZDHUF	11:30:00 AM	192.21	192.4			N/A
4/30/2019	NZDHUF	1:30:00 PM	192.02	192.29			N/A
4/30/2019	NZDHUF	3:30:00 PM	191.79	191.94			N/A
4/30/2019	NZDJPY	9:30:00 AM	74.128	74.183			N/A
4/30/2019	NZDJPY	11:30:00 AM	74.288	74.317			N/A
4/30/2019	NZDJPY	1:30:00 PM	74.242	74.309			N/A
4/30/2019	NZDJPY	3:30:00 PM	74.258	74.296			N/A
4/30/2019	NZDJPY.fx	9:30:00 AM	74.159	74.151			N/A
4/30/2019	NZDJPY.fx	11:30:00 AM	74.319	74.284			N/A
4/30/2019	NZDJPY.fx	1:30:00 PM	74.273	74.277			N/A
4/30/2019	NZDJPY.fx	3:30:00 PM	74.285	74.264			N/A

4/30/2019	NZDMXN	9:30:00 AM	12.6698	12.6761			N/A
4/30/2019	NZDMXN	11:30:00 AM	12.6941	12.697			N/A
4/30/2019	NZDMXN	1:30:00 PM	12.6714	12.6769			N/A
4/30/2019	NZDMXN	3:30:00 PM	12.6577	12.6588			N/A
4/30/2019	NZDNOK	9:30:00 AM	5.766	5.7699			N/A
4/30/2019	NZDNOK	11:30:00 AM	5.7644	5.7665			N/A
4/30/2019	NZDNOK	1:30:00 PM	5.7563	5.7596			N/A
4/30/2019	NZDNOK	3:30:00 PM	5.7468	5.7471			N/A
4/30/2019	NZDPLN	9:30:00 AM	2.555	2.5564			N/A
4/30/2019	NZDPLN	11:30:00 AM	2.554	2.554			N/A
4/30/2019	NZDPLN	1:30:00 PM	2.5515	2.5527			N/A
4/30/2019	NZDPLN	3:30:00 PM	2.5459	2.5466			N/A
4/30/2019	NZDSEK	9:30:00 AM	6.3307	6.3375			N/A
4/30/2019	NZDSEK	11:30:00 AM	6.3278	6.3324			N/A
4/30/2019	NZDSEK	1:30:00 PM	6.3257	6.3317			N/A
4/30/2019	NZDSEK	3:30:00 PM	6.3215	6.3258			N/A
4/30/2019	NZDSGD	9:30:00 AM	0.9071	0.9078			N/A
4/30/2019	NZDSGD	11:30:00 AM	0.9082	0.9085			N/A
4/30/2019	NZDSGD	1:30:00 PM	0.9075	0.9082			N/A
4/30/2019	NZDSGD	3:30:00 PM	0.9078	0.9081			N/A
4/30/2019	NZDSGD.fx	9:30:00 AM	0.90709	0.9077			N/A
4/30/2019	NZDSGD.fx	11:30:00 AM	0.90818	0.90849			N/A
4/30/2019	NZDSGD.fx	1:30:00 PM	0.90749	0.90811			N/A
4/30/2019	NZDSGD.fx	3:30:00 PM	0.90772	0.90821			N/A
4/30/2019	NZDUSD	9:30:00 AM	0.66565	0.66573			N/A
4/30/2019	NZDUSD	11:30:00 AM	0.66737	0.66724			N/A
4/30/2019	NZDUSD	1:30:00 PM	0.66704	0.66717			N/A
4/30/2019	NZDUSD	3:30:00 PM	0.66707	0.66704			N/A
4/30/2019	NZDUSD.fx	9:30:00 AM	0.66571	0.66575			N/A
4/30/2019	NZDUSD.fx	11:30:00 AM	0.66745	0.66725			N/A
4/30/2019	NZDUSD.fx	1:30:00 PM	0.66712	0.66718			N/A
4/30/2019	NZDUSD.fx	3:30:00 PM	0.66711	0.66705			N/A
4/30/2019	NZDZAR	9:30:00 AM	9.5514	9.5647			N/A
4/30/2019	NZDZAR	11:30:00 AM	9.5502	9.5627			N/A

4/30/2019	NZDZAR	1:30:00 PM	9.5366	9.5524			N/A
4/30/2019	NZDZAR	3:30:00 PM	9.5243	9.5352			N/A
4/30/2019	SEKJPY	9:30:00 AM	11.71	11.72			N/A
4/30/2019	SEKJPY	11:30:00 AM	11.74	11.75			N/A
4/30/2019	SEKJPY	1:30:00 PM					N/A
4/30/2019	SEKJPY	3:30:00 PM	11.74	11.75			N/A
4/30/2019	SEKJPY.fx	9:30:00 AM	11.698	11.715			N/A
4/30/2019	SEKJPY.fx	11:30:00 AM	11.732	11.74			N/A
4/30/2019	SEKJPY.fx	1:30:00 PM	11.727	11.744			N/A
4/30/2019	SEKJPY.fx	3:30:00 PM	11.736	11.751			N/A
4/30/2019	SGDJPY	9:30:00 AM	81.69	81.71			N/A
4/30/2019	SGDJPY	11:30:00 AM	81.78	81.78			N/A
4/30/2019	SGDJPY	1:30:00 PM	81.79	81.81			N/A
4/30/2019	SGDJPY	3:30:00 PM	81.77	81.79			N/A
4/30/2019	SILVER	9:30:00 AM	14.75	15.13			N/A
4/30/2019	SILVER	11:30:00 AM	14.77	15.15			N/A
4/30/2019	SILVER	1:30:00 PM	14.79	15.17			N/A
4/30/2019	SILVER	3:30:00 PM	14.76	15.15			N/A
4/30/2019	SPX500.i	9:30:00 AM	2938.97	2940			N/A
4/30/2019	SPX500.i	11:30:00 AM	2939.97	2940.52			N/A
4/30/2019	SPX500.i	1:30:00 PM	2940.47	2941.52			N/A
4/30/2019	SPX500.i	3:30:00 PM	2942.27	2943.27			N/A
4/30/2019	UK100.i	9:30:00 AM	7444.47	7446.13			N/A
4/30/2019	UK100.i	11:30:00 AM	7437.88	7434.63			N/A
4/30/2019	UK100.i	1:30:00 PM	7432.13	7433.13			N/A
4/30/2019	UK100.i	3:30:00 PM	7435.55	7436.63			N/A
4/30/2019	USDCAD	9:30:00 AM	1.34786	1.34791			N/A
4/30/2019	USDCAD	11:30:00 AM	1.34546	1.34518			N/A
4/30/2019	USDCAD	1:30:00 PM	1.34493	1.34503			N/A
4/30/2019	USDCAD	3:30:00 PM	1.3462	1.34404		1000	N/A
4/30/2019	USDCAD.fx	9:30:00 AM	1.34789	1.34787			N/A
4/30/2019	USDCAD.fx	11:30:00 AM	1.3455	1.34515			N/A
4/30/2019	USDCAD.fx	1:30:00 PM	1.34495	1.34499			N/A
4/30/2019	USDCAD.fx	3:30:00 PM	1.34622	1.34405			N/A

4/30/2019	USDCHF	9:30:00 AM	1.01918	1.01925			N/A
4/30/2019	USDCHF	11:30:00 AM	1.0178	1.01753		1000	N/A
4/30/2019	USDCHF	1:30:00 PM	1.01907	1.0191			N/A
4/30/2019	USDCHF	3:30:00 PM	1.01981	1.01979			N/A
4/30/2019	USDCHF.fx	9:30:00 AM	1.01923	1.0192			N/A
4/30/2019	USDCHF.fx	11:30:00 AM	1.01785	1.01747			N/A
4/30/2019	USDCHF.fx	1:30:00 PM	1.01913	1.01904			N/A
4/30/2019	USDCHF.fx	3:30:00 PM	1.01984	1.01974			N/A
4/30/2019	USDCZK	9:30:00 AM	22.95	22.97			N/A
4/30/2019	USDCZK	11:30:00 AM	22.902	22.909			N/A
4/30/2019	USDCZK	1:30:00 PM	22.883	22.903			N/A
4/30/2019	USDCZK	3:30:00 PM	22.862	22.881			N/A
4/30/2019	USDCZK.fx	9:30:00 AM	22.958	22.9622			N/A
4/30/2019	USDCZK.fx	11:30:00 AM	22.9106	22.8993			N/A
4/30/2019	USDCZK.fx	1:30:00 PM	22.8906	22.895			N/A
4/30/2019	USDCZK.fx	3:30:00 PM	22.8692	22.874			N/A
4/30/2019	USDDKK	9:30:00 AM	6.677	6.6803			N/A
4/30/2019	USDDKK	11:30:00 AM	6.6653	6.6644			N/A
4/30/2019	USDDKK	1:30:00 PM	6.661	6.664			N/A
4/30/2019	USDDKK	3:30:00 PM	6.654	6.6574			N/A
4/30/2019	USDDKK.fx	9:30:00 AM	6.67745	6.67835			N/A
4/30/2019	USDDKK.fx	11:30:00 AM	6.66563	6.66212			N/A
4/30/2019	USDDKK.fx	1:30:00 PM	6.66145	6.66202			N/A
4/30/2019	USDDKK.fx	3:30:00 PM	6.65427	6.65506			N/A
4/30/2019	USDHKD	9:30:00 AM	7.8455	7.8456			N/A
4/30/2019	USDHKD	11:30:00 AM	7.8447	7.8449			N/A
4/30/2019	USDHKD	1:30:00 PM	7.8449	7.8452			N/A
4/30/2019	USDHKD	3:30:00 PM	7.8444	7.8443			N/A
4/30/2019	USDHKD.fx	9:30:00 AM	7.84552	7.8458			N/A
4/30/2019	USDHKD.fx	11:30:00 AM	7.8447	7.84525			N/A
4/30/2019	USDHKD.fx	1:30:00 PM	7.84479	7.84538			N/A
4/30/2019	USDHKD.fx	3:30:00 PM	7.84459	7.84511			N/A
4/30/2019	USDHUF	9:30:00 AM	288.83	289.27			N/A
4/30/2019	USDHUF	11:30:00 AM	288.23	288.47			N/A

4/30/2019	USDHUF	1:30:00 PM	287.95	288.38			N/A
4/30/2019	USDHUF	3:30:00 PM	287.66	288.11			N/A
4/30/2019	USDHUF.fx	9:30:00 AM	289.016	289.085			N/A
4/30/2019	USDHUF.fx	11:30:00 AM	288.433	288.27			N/A
4/30/2019	USDHUF.fx	1:30:00 PM	288.155	288.157			N/A
4/30/2019	USDHUF.fx	3:30:00 PM	287.854	287.886			N/A
4/30/2019	USDINR	9:30:00 AM	64.83	74.82			N/A
4/30/2019	USDINR	11:30:00 AM	64.76	74.75			N/A
4/30/2019	USDINR	1:30:00 PM					N/A
4/30/2019	USDINR	3:30:00 PM					N/A
4/30/2019	USDJPY	9:30:00 AM	111.38	111.381			N/A
4/30/2019	USDJPY	11:30:00 AM	111.334	111.328			N/A
4/30/2019	USDJPY	1:30:00 PM	111.318	111.328			N/A
4/30/2019	USDJPY	3:30:00 PM	111.33	111.323			N/A
4/30/2019	USDJPY.fx	9:30:00 AM	111.387	111.375			N/A
4/30/2019	USDJPY.fx	11:30:00 AM	111.34	111.32			N/A
4/30/2019	USDJPY.fx	1:30:00 PM	111.324	111.321			N/A
4/30/2019	USDJPY.fx	3:30:00 PM	111.334	111.316			N/A
4/30/2019	USDMXN	9:30:00 AM	19.04	19.046			N/A
4/30/2019	USDMXN	11:30:00 AM	19.033	19.033			N/A
4/30/2019	USDMXN	1:30:00 PM	19.001	19.009			N/A
4/30/2019	USDMXN	3:30:00 PM	18.981	18.986			N/A
4/30/2019	USDMXN.f	9:30:00 AM	19.0433	19.0426			N/A
4/30/2019	USDMXN.f	11:30:00 AM	19.0375	19.0291			N/A
4/30/2019	USDMXN.f	1:30:00 PM	19.0043	19.0052			N/A
4/30/2019	USDMXN.f	3:30:00 PM	18.9851	18.983			N/A
4/30/2019	USDNOK	9:30:00 AM	8.6639	8.6716			N/A
4/30/2019	USDNOK	11:30:00 AM	8.6425	8.6454			N/A
4/30/2019	USDNOK	1:30:00 PM	8.63	8.6378			N/A
4/30/2019	USDNOK	3:30:00 PM	8.6184	8.6234			N/A
4/30/2019	USDNOK.fx	9:30:00 AM	8.66805	8.66715			N/A
4/30/2019	USDNOK.fx	11:30:00 AM	8.64644	8.64092			N/A
4/30/2019	USDNOK.fx	1:30:00 PM	8.63393	8.63335			N/A
4/30/2019	USDNOK.fx	3:30:00 PM	8.62181	8.61878			N/A

4/30/2019	USDPLN	9:30:00 AM	3.8402	3.8413			N/A
4/30/2019	USDPLN	11:30:00 AM	3.8293	3.8275			N/A
4/30/2019	USDPLN	1:30:00 PM	3.8259	3.8268			N/A
4/30/2019	USDPLN	3:30:00 PM	3.8191	3.8203			N/A
4/30/2019	USDPLN.fx	9:30:00 AM	3.83939	3.84201			N/A
4/30/2019	USDPLN.fx	11:30:00 AM	3.82848	3.82837			N/A
4/30/2019	USDPLN.fx	1:30:00 PM	3.82508	3.82755			N/A
4/30/2019	USDPLN.fx	3:30:00 PM	3.81809	3.8211			N/A
4/30/2019	USDRUB	9:30:00 AM					N/A
4/30/2019	USDRUB	11:30:00 AM	64.35	64.722			N/A
4/30/2019	USDRUB	1:30:00 PM	64.255	64.643			N/A
4/30/2019	USDRUB	3:30:00 PM	64.189	64.578			N/A
4/30/2019	USDSEK	9:30:00 AM	9.5161	9.5196			N/A
4/30/2019	USDSEK	11:30:00 AM	9.4903	9.4883			N/A
4/30/2019	USDSEK	1:30:00 PM	9.4872	9.4906			N/A
4/30/2019	USDSEK	3:30:00 PM	9.4822	9.4839			N/A
4/30/2019	USDSEK.fx	9:30:00 AM	9.51866	9.51781			N/A
4/30/2019	USDSEK.fx	11:30:00 AM	9.4929	9.48614			N/A
4/30/2019	USDSEK.fx	1:30:00 PM	9.48972	9.48876			N/A
4/30/2019	USDSEK.fx	3:30:00 PM	9.48434	9.48188			N/A
4/30/2019	USDSGD	9:30:00 AM	1.3628	1.3631			N/A
4/30/2019	USDSGD	11:30:00 AM	1.3611	1.3611			N/A
4/30/2019	USDSGD	1:30:00 PM	1.3605	1.3609			N/A
4/30/2019	USDSGD	3:30:00 PM	1.3609	1.3606			N/A
4/30/2019	USDSGD.fx	9:30:00 AM	1.36282	1.36316			N/A
4/30/2019	USDSGD.fx	11:30:00 AM	1.36103	1.36116			N/A
4/30/2019	USDSGD.fx	1:30:00 PM	1.36045	1.36096			N/A
4/30/2019	USDSGD.fx	3:30:00 PM	1.36076	1.36128			N/A
4/30/2019	USDZAR	9:30:00 AM	14.3594	14.372			N/A
4/30/2019	USDZAR	11:30:00 AM	14.3242	14.3314			N/A
4/30/2019	USDZAR	1:30:00 PM	14.304	14.3206			N/A
4/30/2019	USDZAR	3:30:00 PM	14.2888	14.3032			N/A
4/30/2019	USDZAR.fx	9:30:00 AM	14.3651	14.36622			N/A
4/30/2019	USDZAR.fx	11:30:00 AM	14.3309	14.3248			N/A

4/30/2019	USDZAR.fx	1:30:00 PM	14.30958	14.31352			N/A
4/30/2019	USDZAR.fx	3:30:00 PM	14.29386	14.29732			N/A
4/30/2019	XAUUSD	9:30:00 AM	1282.85	1283.11			N/A
4/30/2019	XAUUSD	11:30:00 AM	1284.23	1284.52			N/A
4/30/2019	XAUUSD	1:30:00 PM	1284.87	1285.24			N/A
4/30/2019	XAUUSD	3:30:00 PM	1283.3	1282.69			N/A
4/30/2019	ZARJPY	9:30:00 AM	7.73	7.75			N/A
4/30/2019	ZARJPY	11:30:00 AM	7.75	7.76			N/A
4/30/2019	ZARJPY	1:30:00 PM	7.75	7.77			N/A
4/30/2019	ZARJPY	3:30:00 PM	7.76	7.78			N/A
4/30/2019	ZARJPY.fx	9:30:00 AM	7.747	7.748			N/A
4/30/2019	ZARJPY.fx	11:30:00 AM	7.765	7.762			N/A
4/30/2019	ZARJPY.fx	1:30:00 PM	7.77	7.773			N/A
4/30/2019	ZARJPY.fx	3:30:00 PM	7.779	7.783			N/A
5/1/2019	#AA	9:30:00 AM					N/A
5/1/2019	#AA	11:30:00 AM					N/A
5/1/2019	#AA	1:30:00 PM					N/A
5/1/2019	#AA	3:30:00 PM					N/A
5/1/2019	#AABA	9:30:00 AM					N/A
5/1/2019	#AABA	11:30:00 AM					N/A
5/1/2019	#AABA	1:30:00 PM					N/A
5/1/2019	#AABA	3:30:00 PM					N/A
5/1/2019	#AAL	9:30:00 AM					N/A
5/1/2019	#AAL	11:30:00 AM					N/A
5/1/2019	#AAL	1:30:00 PM					N/A
5/1/2019	#AAL	3:30:00 PM					N/A
5/1/2019	#AAPL	9:30:00 AM					N/A
5/1/2019	#AAPL	11:30:00 AM					N/A
5/1/2019	#AAPL	1:30:00 PM					N/A
5/1/2019	#AAPL	3:30:00 PM					N/A
5/1/2019	#ADBE	9:30:00 AM					N/A
5/1/2019	#ADBE	11:30:00 AM					N/A
5/1/2019	#ADBE	1:30:00 PM					N/A
5/1/2019	#ADBE	3:30:00 PM					N/A

5/1/2019	#AIG	9:30:00 AM					N/A
5/1/2019	#AIG	11:30:00 AM					N/A
5/1/2019	#AIG	1:30:00 PM					N/A
5/1/2019	#AIG	3:30:00 PM					N/A
5/1/2019	#AMD	9:30:00 AM					N/A
5/1/2019	#AMD	11:30:00 AM					N/A
5/1/2019	#AMD	1:30:00 PM					N/A
5/1/2019	#AMD	3:30:00 PM					N/A
5/1/2019	#AMZN	9:30:00 AM					N/A
5/1/2019	#AMZN	11:30:00 AM					N/A
5/1/2019	#AMZN	1:30:00 PM					N/A
5/1/2019	#AMZN	3:30:00 PM					N/A
5/1/2019	#AXP	9:30:00 AM					N/A
5/1/2019	#AXP	11:30:00 AM					N/A
5/1/2019	#AXP	1:30:00 PM					N/A
5/1/2019	#AXP	3:30:00 PM					N/A
5/1/2019	#BA	9:30:00 AM					N/A
5/1/2019	#BA	11:30:00 AM					N/A
5/1/2019	#BA	1:30:00 PM					N/A
5/1/2019	#BA	3:30:00 PM					N/A
5/1/2019	#BABA	9:30:00 AM					N/A
5/1/2019	#BABA	11:30:00 AM					N/A
5/1/2019	#BABA	1:30:00 PM					N/A
5/1/2019	#BABA	3:30:00 PM					N/A
5/1/2019	#BAC	9:30:00 AM					N/A
5/1/2019	#BAC	11:30:00 AM					N/A
5/1/2019	#BAC	1:30:00 PM					N/A
5/1/2019	#BAC	3:30:00 PM					N/A
5/1/2019	#BARC	9:30:00 AM					N/A
5/1/2019	#BARC	11:30:00 AM					N/A
5/1/2019	#BARC	1:30:00 PM					N/A
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5/1/2019	#UL	1:30:00 PM					N/A
5/1/2019	#UL	3:30:00 PM					N/A
5/1/2019	#UPS	9:30:00 AM					N/A
5/1/2019	#UPS	11:30:00 AM					N/A
5/1/2019	#UPS	1:30:00 PM					N/A
5/1/2019	#UPS	3:30:00 PM					N/A
5/1/2019	#UTX	9:30:00 AM					N/A
5/1/2019	#UTX	11:30:00 AM					N/A
5/1/2019	#UTX	1:30:00 PM					N/A
5/1/2019	#UTX	3:30:00 PM					N/A
5/1/2019	#V	9:30:00 AM					N/A
5/1/2019	#V	11:30:00 AM					N/A
5/1/2019	#V	1:30:00 PM					N/A
5/1/2019	#V	3:30:00 PM					N/A
5/1/2019	#VOD	9:30:00 AM					N/A
5/1/2019	#VOD	11:30:00 AM					N/A
5/1/2019	#VOD	1:30:00 PM					N/A
5/1/2019	#VOD	3:30:00 PM					N/A
5/1/2019	#VZ	9:30:00 AM					N/A
5/1/2019	#VZ	11:30:00 AM					N/A
5/1/2019	#VZ	1:30:00 PM					N/A
5/1/2019	#VZ	3:30:00 PM					N/A
5/1/2019	#WDC	9:30:00 AM					N/A
5/1/2019	#WDC	11:30:00 AM					N/A
5/1/2019	#WDC	1:30:00 PM					N/A
5/1/2019	#WDC	3:30:00 PM					N/A
5/1/2019	#WFC	9:30:00 AM					N/A
5/1/2019	#WFC	11:30:00 AM					N/A
5/1/2019	#WFC	1:30:00 PM					N/A
5/1/2019	#WFC	3:30:00 PM					N/A

5/1/2019	#WMT	9:30:00 AM					N/A
5/1/2019	#WMT	11:30:00 AM					N/A
5/1/2019	#WMT	1:30:00 PM					N/A
5/1/2019	#WMT	3:30:00 PM					N/A
5/1/2019	#XOM	9:30:00 AM					N/A
5/1/2019	#XOM	11:30:00 AM					N/A
5/1/2019	#XOM	1:30:00 PM					N/A
5/1/2019	#XOM	3:30:00 PM					N/A
5/1/2019	#YHOO	9:30:00 AM					N/A
5/1/2019	#YHOO	11:30:00 AM					N/A
5/1/2019	#YHOO	1:30:00 PM					N/A
5/1/2019	#YHOO	3:30:00 PM					N/A
5/1/2019	#ZNGA	9:30:00 AM					N/A
5/1/2019	#ZNGA	11:30:00 AM					N/A
5/1/2019	#ZNGA	1:30:00 PM					N/A
5/1/2019	#ZNGA	3:30:00 PM					N/A
5/1/2019	AUDCAD	9:30:00 AM	0.94309	0.94383			N/A
5/1/2019	AUDCAD	11:30:00 AM	0.94473	0.94523			N/A
5/1/2019	AUDCAD	1:30:00 PM	0.94446	0.94512			N/A
5/1/2019	AUDCAD	3:30:00 PM	0.94388	0.94439			N/A
5/1/2019	AUDCAD.fx	9:30:00 AM	0.94345	0.94348			N/A
5/1/2019	AUDCAD.fx	11:30:00 AM	0.94507	0.94488			N/A
5/1/2019	AUDCAD.fx	1:30:00 PM	0.9448	0.94478			N/A
5/1/2019	AUDCAD.fx	3:30:00 PM	0.94421	0.94404			N/A
5/1/2019	AUDCHF	9:30:00 AM	0.71852	0.71922			N/A
5/1/2019	AUDCHF	11:30:00 AM	0.71759	0.71829			N/A
5/1/2019	AUDCHF	1:30:00 PM	0.71638	0.71714			N/A
5/1/2019	AUDCHF	3:30:00 PM	0.71567	0.71634			N/A
5/1/2019	AUDCHF.fx	9:30:00 AM	0.71888	0.71887			N/A
5/1/2019	AUDCHF.fx	11:30:00 AM	0.71794	0.71793			N/A
5/1/2019	AUDCHF.fx	1:30:00 PM	0.71672	0.71679			N/A
5/1/2019	AUDCHF.fx	3:30:00 PM	0.71601	0.71599			N/A
5/1/2019	AUDCZK	9:30:00 AM	16.091	16.108			N/A
5/1/2019	AUDCZK	11:30:00 AM	16.083	16.099			N/A

5/1/2019	AUDCZK	1:30:00 PM					N/A
5/1/2019	AUDCZK	3:30:00 PM	16.051	16.065			N/A
5/1/2019	AUDDKK	9:30:00 AM	4.6909	4.6955			N/A
5/1/2019	AUDDKK	11:30:00 AM	4.6895	4.6941			N/A
5/1/2019	AUDDKK	1:30:00 PM	4.6851	4.6898			N/A
5/1/2019	AUDDKK	3:30:00 PM	4.6819	4.6865			N/A
5/1/2019	AUDHKD	9:30:00 AM	5.5276	5.5309			N/A
5/1/2019	AUDHKD	11:30:00 AM	5.5325	5.5365			N/A
5/1/2019	AUDHKD	1:30:00 PM	5.5325	5.5364			N/A
5/1/2019	AUDHKD	3:30:00 PM	5.5244	5.5279			N/A
5/1/2019	AUDHUF	9:30:00 AM	203.42	203.58			N/A
5/1/2019	AUDHUF	11:30:00 AM	203.62	203.77			N/A
5/1/2019	AUDHUF	1:30:00 PM	203.43	203.67			N/A
5/1/2019	AUDHUF	3:30:00 PM	203.27	203.51			N/A
5/1/2019	AUDJPY	9:30:00 AM	78.609	78.682			N/A
5/1/2019	AUDJPY	11:30:00 AM	78.628	78.698			N/A
5/1/2019	AUDJPY	1:30:00 PM	78.527	78.601			N/A
5/1/2019	AUDJPY	3:30:00 PM	78.444	78.508			N/A
5/1/2019	AUDJPY.fx	9:30:00 AM	78.643	78.647			N/A
5/1/2019	AUDJPY.fx	11:30:00 AM	78.662	78.663			N/A
5/1/2019	AUDJPY.fx	1:30:00 PM	78.561	78.567			N/A
5/1/2019	AUDJPY.fx	3:30:00 PM	78.478	78.475			N/A
5/1/2019	AUDMXN	9:30:00 AM	13.3373	13.3473			N/A
5/1/2019	AUDMXN	11:30:00 AM	13.3431	13.351			N/A
5/1/2019	AUDMXN	1:30:00 PM	13.3468	13.357			N/A
5/1/2019	AUDMXN	3:30:00 PM	13.318	13.3246			N/A
5/1/2019	AUDNOK	9:30:00 AM	6.0794	6.0847			N/A
5/1/2019	AUDNOK	11:30:00 AM	6.09	6.092			N/A
5/1/2019	AUDNOK	1:30:00 PM	6.0842	6.0898			N/A
5/1/2019	AUDNOK	3:30:00 PM	6.0822	6.0868			N/A
5/1/2019	AUDNOK.fx	9:30:00 AM	6.0809	6.0831			N/A
5/1/2019	AUDNOK.fx	11:30:00 AM	6.0915	6.093			N/A
5/1/2019	AUDNOK.fx	1:30:00 PM	6.0857	6.0881			N/A
5/1/2019	AUDNOK.fx	3:30:00 PM	6.0838	6.0851			N/A

5/1/2019	AUDNZD	9:30:00 AM	1.05998	1.06089			N/A
5/1/2019	AUDNZD	11:30:00 AM	1.05971	1.06059			N/A
5/1/2019	AUDNZD	1:30:00 PM	1.05854	1.0595			N/A
5/1/2019	AUDNZD	3:30:00 PM	1.05864	1.05947			N/A
5/1/2019	AUDNZD.fx	9:30:00 AM	1.06042	1.06044			N/A
5/1/2019	AUDNZD.fx	11:30:00 AM	1.06014	1.06015			N/A
5/1/2019	AUDNZD.fx	1:30:00 PM	1.059	1.05904			N/A
5/1/2019	AUDNZD.fx	3:30:00 PM	1.05908	1.05902			N/A
5/1/2019	AUDPLN	9:30:00 AM	2.6929	2.6959			N/A
5/1/2019	AUDPLN	11:30:00 AM	2.6896	2.6928			N/A
5/1/2019	AUDPLN	1:30:00 PM	2.6856	2.6888			N/A
5/1/2019	AUDPLN	3:30:00 PM	2.6842	2.6874			N/A
5/1/2019	AUDSEK	9:30:00 AM	6.692	6.6953			N/A
5/1/2019	AUDSEK	11:30:00 AM	6.7046	6.7073			N/A
5/1/2019	AUDSEK	1:30:00 PM	6.6975	6.7013			N/A
5/1/2019	AUDSEK	3:30:00 PM	6.6955	6.6981			N/A
5/1/2019	AUDSEK.fx	9:30:00 AM	6.6874	6.6996			N/A
5/1/2019	AUDSEK.fx	11:30:00 AM	6.7001	6.7114			N/A
5/1/2019	AUDSEK.fx	1:30:00 PM	6.6929	6.7057			N/A
5/1/2019	AUDSEK.fx	3:30:00 PM	6.6909	6.7026			N/A
5/1/2019	AUDSGD	9:30:00 AM	0.9581	0.9584			N/A
5/1/2019	AUDSGD	11:30:00 AM	0.9589	0.9591			N/A
5/1/2019	AUDSGD	1:30:00 PM	0.9586	0.9589			N/A
5/1/2019	AUDSGD	3:30:00 PM	0.9578	0.958			N/A
5/1/2019	AUDSGD.fx	9:30:00 AM	0.95817	0.95825			N/A
5/1/2019	AUDSGD.fx	11:30:00 AM	0.95896	0.95905			N/A
5/1/2019	AUDSGD.fx	1:30:00 PM	0.95866	0.95884			N/A
5/1/2019	AUDSGD.fx	3:30:00 PM	0.95792	0.95789			N/A
5/1/2019	AUDUSD	9:30:00 AM	0.70496	0.7051			N/A
5/1/2019	AUDUSD	11:30:00 AM	0.70564	0.70576			N/A
5/1/2019	AUDUSD	1:30:00 PM	0.70554	0.70572			N/A
5/1/2019	AUDUSD	3:30:00 PM	0.70463	0.70451			N/A
5/1/2019	AUDUSD.fx	9:30:00 AM	0.70501	0.70505			N/A
5/1/2019	AUDUSD.fx	11:30:00 AM	0.70569	0.7057			N/A

5/1/2019	AUDUSD.fx	1:30:00 PM	0.70559	0.70567			N/A
5/1/2019	AUDUSD.fx	3:30:00 PM	0.70468	0.70445			N/A
5/1/2019	AUDZAR	9:30:00 AM	10.0554	10.0686			N/A
5/1/2019	AUDZAR	11:30:00 AM	10.0766	10.0886			N/A
5/1/2019	AUDZAR	1:30:00 PM	10.0758	10.0914			N/A
5/1/2019	AUDZAR	3:30:00 PM	10.0875	10.1002			N/A
5/1/2019	AUS200.i	9:30:00 AM					N/A
5/1/2019	AUS200.i	11:30:00 AM	6370.78	6374.48			N/A
5/1/2019	AUS200.i	1:30:00 PM					N/A
5/1/2019	AUS200.i	3:30:00 PM	6376.68	6379.28			N/A
5/1/2019	BCHUSD	9:30:00 AM	275.16	276.78			N/A
5/1/2019	BCHUSD	11:30:00 AM	274.81	276.08			N/A
5/1/2019	BCHUSD	1:30:00 PM	275.01	276.81			N/A
5/1/2019	BCHUSD	3:30:00 PM	272.6	274.35			N/A
5/1/2019	CADCHF	9:30:00 AM	0.76156	0.76231			N/A
5/1/2019	CADCHF	11:30:00 AM	0.75951	0.76002			N/A
5/1/2019	CADCHF	1:30:00 PM	0.75832	0.75901			N/A
5/1/2019	CADCHF	3:30:00 PM	0.75807	0.7587			N/A
5/1/2019	CADCHF.fx	9:30:00 AM	0.76191	0.76196			N/A
5/1/2019	CADCHF.fx	11:30:00 AM	0.75986	0.75966			N/A
5/1/2019	CADCHF.fx	1:30:00 PM	0.75866	0.75866			N/A
5/1/2019	CADCHF.fx	3:30:00 PM	0.75841	0.75835			N/A
5/1/2019	CADCZK	9:30:00 AM	17.059	17.077			N/A
5/1/2019	CADCZK	11:30:00 AM	17.023	17.039			N/A
5/1/2019	CADCZK	1:30:00 PM	16.994	17.01			N/A
5/1/2019	CADCZK	3:30:00 PM	17.003	17.02			N/A
5/1/2019	CADDDKK	9:30:00 AM					N/A
5/1/2019	CADDDKK	11:30:00 AM	4.963	4.967			N/A
5/1/2019	CADDDKK	1:30:00 PM					N/A
5/1/2019	CADDDKK	3:30:00 PM					N/A
5/1/2019	CADHKD	9:30:00 AM	5.8594	5.8633			N/A
5/1/2019	CADHKD	11:30:00 AM	5.8568	5.8601			N/A
5/1/2019	CADHKD	1:30:00 PM	5.8568	5.8602			N/A
5/1/2019	CADHKD	3:30:00 PM	5.8523	5.8563			N/A

5/1/2019	CADHUF	9:30:00 AM	215.68	215.78			N/A
5/1/2019	CADHUF	11:30:00 AM	215.54	215.65			N/A
5/1/2019	CADHUF	1:30:00 PM	215.4	215.55			N/A
5/1/2019	CADHUF	3:30:00 PM	215.4	215.54			N/A
5/1/2019	CADJPY	9:30:00 AM	83.32	83.397			N/A
5/1/2019	CADJPY	11:30:00 AM	83.213	83.269			N/A
5/1/2019	CADJPY	1:30:00 PM	83.123	83.191			N/A
5/1/2019	CADJPY	3:30:00 PM	83.095	83.146			N/A
5/1/2019	CADJPY.fx	9:30:00 AM	83.353	83.362			N/A
5/1/2019	CADJPY.fx	11:30:00 AM	83.247	83.234			N/A
5/1/2019	CADJPY.fx	1:30:00 PM	83.156	83.156			N/A
5/1/2019	CADJPY.fx	3:30:00 PM	83.128	83.112			N/A
5/1/2019	CADMXN	9:30:00 AM	14.1376	14.1505			N/A
5/1/2019	CADMXN	11:30:00 AM	14.1214	14.1334			N/A
5/1/2019	CADMXN	1:30:00 PM	14.1288	14.1408			N/A
5/1/2019	CADMXN	3:30:00 PM	14.1069	14.116			N/A
5/1/2019	CADNOK	9:30:00 AM	6.4408	6.4457			N/A
5/1/2019	CADNOK	11:30:00 AM	6.4434	6.4469			N/A
5/1/2019	CADNOK	1:30:00 PM	6.4392	6.4436			N/A
5/1/2019	CADNOK	3:30:00 PM	6.4414	6.4462			N/A
5/1/2019	CADPLN	9:30:00 AM	2.8544	2.8562			N/A
5/1/2019	CADPLN	11:30:00 AM	2.8473	2.8491			N/A
5/1/2019	CADPLN	1:30:00 PM	2.843	2.8443			N/A
5/1/2019	CADPLN	3:30:00 PM	2.8438	2.8457			N/A
5/1/2019	CADSEK	9:30:00 AM	7.091	7.0947			N/A
5/1/2019	CADSEK	11:30:00 AM	7.0935	7.0973			N/A
5/1/2019	CADSEK	1:30:00 PM	7.0878	7.091			N/A
5/1/2019	CADSEK	3:30:00 PM	7.0906	7.0937			N/A
5/1/2019	CADSGD	9:30:00 AM	1.015	1.0153			N/A
5/1/2019	CADSGD	11:30:00 AM	1.0145	1.0148			N/A
5/1/2019	CADSGD	1:30:00 PM	1.0141	1.0143			N/A
5/1/2019	CADSGD	3:30:00 PM	1.0138	1.0141			N/A
5/1/2019	CADZAR	9:30:00 AM	10.6597	10.6757			N/A
5/1/2019	CADZAR	11:30:00 AM	10.6645	10.68			N/A

5/1/2019	CADZAR	1:30:00 PM	10.666	10.6836			N/A
5/1/2019	CADZAR	3:30:00 PM	10.6868	10.6991			N/A
5/1/2019	CHFCZK	9:30:00 AM	22.394	22.41			N/A
5/1/2019	CHFCZK	11:30:00 AM	22.411	22.425			N/A
5/1/2019	CHFCZK	1:30:00 PM	22.402	22.419			N/A
5/1/2019	CHFCZK	3:30:00 PM	22.423	22.44			N/A
5/1/2019	CHFDKK	9:30:00 AM	6.527	6.529			N/A
5/1/2019	CHFDKK	11:30:00 AM	6.534	6.536			N/A
5/1/2019	CHFDKK	1:30:00 PM					N/A
5/1/2019	CHFDKK	3:30:00 PM					N/A
5/1/2019	CHFDKK.fx	9:30:00 AM	6.5253	6.5316			N/A
5/1/2019	CHFDKK.fx	11:30:00 AM	6.5328	6.5384			N/A
5/1/2019	CHFDKK.fx	1:30:00 PM	6.5367	6.5432			N/A
5/1/2019	CHFDKK.fx	3:30:00 PM	6.5389	6.545			N/A
5/1/2019	CHFHKD	9:30:00 AM	7.6906	7.6945			N/A
5/1/2019	CHFHKD	11:30:00 AM	7.7082	7.7109			N/A
5/1/2019	CHFHKD	1:30:00 PM	7.7208	7.7245			N/A
5/1/2019	CHFHKD	3:30:00 PM	7.7175	7.7214			N/A
5/1/2019	CHFHUF	9:30:00 AM	282.98	283.29			N/A
5/1/2019	CHFHUF	11:30:00 AM	283.65	283.9			N/A
5/1/2019	CHFHUF	1:30:00 PM	283.84	284.23			N/A
5/1/2019	CHFHUF	3:30:00 PM	283.93	284.32			N/A
5/1/2019	CHFJPY	9:30:00 AM	109.405	109.479			N/A
5/1/2019	CHFJPY	11:30:00 AM	109.574	109.638			N/A
5/1/2019	CHFJPY	1:30:00 PM	109.618	109.688			N/A
5/1/2019	CHFJPY	3:30:00 PM	109.609	109.671			N/A
5/1/2019	CHFJPY.fx	9:30:00 AM	109.439	109.445			N/A
5/1/2019	CHFJPY.fx	11:30:00 AM	109.608	109.604			N/A
5/1/2019	CHFJPY.fx	1:30:00 PM	109.65	109.654			N/A
5/1/2019	CHFJPY.fx	3:30:00 PM	109.643	109.636			N/A
5/1/2019	CHFMXN	9:30:00 AM	18.5556	18.5729			N/A
5/1/2019	CHFMXN	11:30:00 AM	18.5886	18.6004			N/A
5/1/2019	CHFMXN	1:30:00 PM	18.6245	18.6407			N/A
5/1/2019	CHFMXN	3:30:00 PM	18.602	18.6151			N/A

5/1/2019	CHFNOK	9:30:00 AM	8.4567	8.4645			N/A
5/1/2019	CHFNOK	11:30:00 AM	8.4822	8.4873			N/A
5/1/2019	CHFNOK	1:30:00 PM	8.4879	8.4964			N/A
5/1/2019	CHFNOK	3:30:00 PM	8.4937	8.5016			N/A
5/1/2019	CHFNOK.fx	9:30:00 AM	8.4603	8.46093			N/A
5/1/2019	CHFNOK.fx	11:30:00 AM	8.48577	8.48629			N/A
5/1/2019	CHFNOK.fx	1:30:00 PM	8.49135	8.49285			N/A
5/1/2019	CHFNOK.fx	3:30:00 PM	8.49714	8.49815			N/A
5/1/2019	CHFPLN	9:30:00 AM	3.7476	3.7495			N/A
5/1/2019	CHFPLN	11:30:00 AM	3.7481	3.7509			N/A
5/1/2019	CHFPLN	1:30:00 PM	3.7483	3.7516			N/A
5/1/2019	CHFPLN	3:30:00 PM	3.7506	3.7534			N/A
5/1/2019	CHFPLN.fx	9:30:00 AM	3.74504	3.75335			N/A
5/1/2019	CHFPLN.fx	11:30:00 AM	3.74584	3.75313			N/A
5/1/2019	CHFPLN.fx	1:30:00 PM	3.74594	3.75353			N/A
5/1/2019	CHFPLN.fx	3:30:00 PM	3.74823	3.75575			N/A
5/1/2019	CHFSEK	9:30:00 AM	9.3075	9.3114			N/A
5/1/2019	CHFSEK	11:30:00 AM	9.3372	9.34			N/A
5/1/2019	CHFSEK	1:30:00 PM	9.3429	9.3476			N/A
5/1/2019	CHFSEK	3:30:00 PM	9.3493	9.3542			N/A
5/1/2019	CHFSGD	9:30:00 AM	1.3328	1.333			N/A
5/1/2019	CHFSGD	11:30:00 AM	1.3356	1.336			N/A
5/1/2019	CHFSGD	1:30:00 PM	1.3374	1.3379			N/A
5/1/2019	CHFSGD	3:30:00 PM	1.3377	1.3381			N/A
5/1/2019	CHFSGD.fx	9:30:00 AM	1.33293	1.33305			N/A
5/1/2019	CHFSGD.fx	11:30:00 AM	1.33581	1.33581			N/A
5/1/2019	CHFSGD.fx	1:30:00 PM	1.33753	1.33767			N/A
5/1/2019	CHFSGD.fx	3:30:00 PM	1.33783	1.33787			N/A
5/1/2019	CHFZAR	9:30:00 AM	13.9949	14.0081			N/A
5/1/2019	CHFZAR	11:30:00 AM	14.0415	14.0512			N/A
5/1/2019	CHFZAR	1:30:00 PM	14.0642	14.0792			N/A
5/1/2019	CHFZAR	3:30:00 PM	14.0953	14.1052			N/A
5/1/2019	CZKJPY	9:30:00 AM					N/A
5/1/2019	CZKJPY	11:30:00 AM					N/A

5/1/2019	CZKJPY	1:30:00 PM	4.89	4.893			N/A
5/1/2019	CZKJPY	3:30:00 PM	4.885	4.889			N/A
5/1/2019	DAX30.i	9:30:00 AM	12395.2	12395.9			N/A
5/1/2019	DAX30.i	11:30:00 AM	12396.55	12397.02			N/A
5/1/2019	DAX30.i	1:30:00 PM	12393.9	12395.95			N/A
5/1/2019	DAX30.i	3:30:00 PM	12402.9	12401.82			N/A
5/1/2019	DJ30.i	9:30:00 AM					N/A
5/1/2019	DJ30.i	11:30:00 AM					N/A
5/1/2019	DJ30.i	1:30:00 PM					N/A
5/1/2019	DJ30.i	3:30:00 PM					N/A
5/1/2019	DKKJPY	9:30:00 AM					N/A
5/1/2019	DKKJPY	11:30:00 AM	16.76	16.78			N/A
5/1/2019	DKKJPY	1:30:00 PM					N/A
5/1/2019	DKKJPY	3:30:00 PM					N/A
5/1/2019	EURAUD	9:30:00 AM	1.58987	1.5903			N/A
5/1/2019	EURAUD	11:30:00 AM	1.59033	1.59062			N/A
5/1/2019	EURAUD	1:30:00 PM	1.59171	1.59223			N/A
5/1/2019	EURAUD	3:30:00 PM	1.59302	1.59337			N/A
5/1/2019	EURAUD.fx	9:30:00 AM	1.59007	1.59008			N/A
5/1/2019	EURAUD.fx	11:30:00 AM	1.59053	1.5904			N/A
5/1/2019	EURAUD.fx	1:30:00 PM	1.59191	1.59202			N/A
5/1/2019	EURAUD.fx	3:30:00 PM	1.59323	1.59316			N/A
5/1/2019	EURCAD	9:30:00 AM	1.50036	1.50123			N/A
5/1/2019	EURCAD	11:30:00 AM	1.50315	1.50379			N/A
5/1/2019	EURCAD	1:30:00 PM	1.50426	1.50501			N/A
5/1/2019	EURCAD	3:30:00 PM	1.50445	1.50508			N/A
5/1/2019	EURCAD.fx	9:30:00 AM	1.50077	1.50081			N/A
5/1/2019	EURCAD.fx	11:30:00 AM	1.50356	1.50337			N/A
5/1/2019	EURCAD.fx	1:30:00 PM	1.50468	1.5046			N/A
5/1/2019	EURCAD.fx	3:30:00 PM	1.50487	1.50465			N/A
5/1/2019	EURCHF	9:30:00 AM	1.14349	1.1436			N/A
5/1/2019	EURCHF	11:30:00 AM	1.14228	1.14226			N/A
5/1/2019	EURCHF	1:30:00 PM	1.14143	1.14159			N/A
5/1/2019	EURCHF	3:30:00 PM	1.14114	1.14122			N/A

5/1/2019	EURCHF.fx	9:30:00 AM	1.14354	1.14355			N/A
5/1/2019	EURCHF.fx	11:30:00 AM	1.14233	1.14219			N/A
5/1/2019	EURCHF.fx	1:30:00 PM	1.14149	1.14154			N/A
5/1/2019	EURCHF.fx	3:30:00 PM	1.1412	1.14117			N/A
5/1/2019	EURCZK	9:30:00 AM	25.594	25.633			N/A
5/1/2019	EURCZK	11:30:00 AM	25.585	25.624			N/A
5/1/2019	EURCZK	1:30:00 PM					N/A
5/1/2019	EURCZK	3:30:00 PM	25.576	25.613			N/A
5/1/2019	EURDKK	9:30:00 AM	7.4618	7.463			N/A
5/1/2019	EURDKK	11:30:00 AM	7.4625	7.4638			N/A
5/1/2019	EURDKK	1:30:00 PM	7.4635	7.4647			N/A
5/1/2019	EURDKK	3:30:00 PM	7.4648	7.4657			N/A
5/1/2019	EURGBP	9:30:00 AM	0.86018	0.86024			N/A
5/1/2019	EURGBP	11:30:00 AM	0.85985	0.85969			N/A
5/1/2019	EURGBP	1:30:00 PM	0.85974	0.85983			N/A
5/1/2019	EURGBP	3:30:00 PM	0.8591	0.85913			N/A
5/1/2019	EURGBP.fx	9:30:00 AM	0.86022	0.86018			N/A
5/1/2019	EURGBP.fx	11:30:00 AM	0.85982	0.85965			N/A
5/1/2019	EURGBP.fx	1:30:00 PM	0.85978	0.85978			N/A
5/1/2019	EURGBP.fx	3:30:00 PM	0.85913	0.85909			N/A
5/1/2019	EURHKD	9:30:00 AM	8.795	8.8003			N/A
5/1/2019	EURHKD	11:30:00 AM	8.8062	8.8107			N/A
5/1/2019	EURHKD	1:30:00 PM	8.8131	8.8185			N/A
5/1/2019	EURHKD	3:30:00 PM	8.808	8.8109			N/A
5/1/2019	EURHKD.fx	9:30:00 AM	8.79793	8.79743			N/A
5/1/2019	EURHKD.fx	11:30:00 AM	8.80901	8.80791			N/A
5/1/2019	EURHKD.fx	1:30:00 PM	8.81583	8.8158			N/A
5/1/2019	EURHKD.fx	3:30:00 PM	8.81086	8.8081			N/A
5/1/2019	EURHUF	9:30:00 AM	323.65	324.18			N/A
5/1/2019	EURHUF	11:30:00 AM	323.92	324.56			N/A
5/1/2019	EURHUF	1:30:00 PM	323.93	324.55			N/A
5/1/2019	EURHUF	3:30:00 PM	323.96	324.66			N/A
5/1/2019	EURHUF.fx	9:30:00 AM	323.921	324.046			N/A
5/1/2019	EURHUF.fx	11:30:00 AM	324.191	324.41			N/A

5/1/2019	EURHUF.fx	1:30:00 PM					N/A
5/1/2019	EURHUF.fx	3:30:00 PM	324.239	324.438			N/A
5/1/2019	EURJPY	9:30:00 AM	125.14	125.147			N/A
5/1/2019	EURJPY	11:30:00 AM	125.195	125.189			N/A
5/1/2019	EURJPY	1:30:00 PM	125.158	125.166			N/A
5/1/2019	EURJPY	3:30:00 PM	125.117	125.111			N/A
5/1/2019	EURJPY.fx	9:30:00 AM	125.142	125.142			N/A
5/1/2019	EURJPY.fx	11:30:00 AM	125.197	125.186			N/A
5/1/2019	EURJPY.fx	1:30:00 PM	125.16	125.162			N/A
5/1/2019	EURJPY.fx	3:30:00 PM	125.118	125.108			N/A
5/1/2019	EURMXN	9:30:00 AM	21.2231	21.2427			N/A
5/1/2019	EURMXN	11:30:00 AM	21.2342	21.2542			N/A
5/1/2019	EURMXN	1:30:00 PM	21.2613	21.281			N/A
5/1/2019	EURMXN	3:30:00 PM	21.2305	21.2436			N/A
5/1/2019	EURMXN.fx	9:30:00 AM	21.2318	21.2345			N/A
5/1/2019	EURMXN.fx	11:30:00 AM	21.2436	21.2447			N/A
5/1/2019	EURMXN.fx	1:30:00 PM	21.2697	21.2722			N/A
5/1/2019	EURMXN.fx	3:30:00 PM	21.2397	21.2341			N/A
5/1/2019	EURNOK	9:30:00 AM	9.6691	9.6814			N/A
5/1/2019	EURNOK	11:30:00 AM	9.6875	9.698			N/A
5/1/2019	EURNOK	1:30:00 PM	9.6875	9.7001			N/A
5/1/2019	EURNOK	3:30:00 PM	9.6916	9.7037			N/A
5/1/2019	EURNOK.fx	9:30:00 AM	9.67439	9.67597			N/A
5/1/2019	EURNOK.fx	11:30:00 AM	9.69319	9.6926			N/A
5/1/2019	EURNOK.fx	1:30:00 PM	9.6928	9.6948			N/A
5/1/2019	EURNOK.fx	3:30:00 PM	9.6969	9.69842			N/A
5/1/2019	EURNZD	9:30:00 AM	1.68639	1.68728			N/A
5/1/2019	EURNZD	11:30:00 AM	1.68637	1.68714			N/A
5/1/2019	EURNZD	1:30:00 PM	1.68612	1.68701			N/A
5/1/2019	EURNZD	3:30:00 PM	1.68766	1.68819			N/A
5/1/2019	EURNZD.fx	9:30:00 AM	1.68681	1.68685			N/A
5/1/2019	EURNZD.fx	11:30:00 AM	1.68679	1.68671			N/A
5/1/2019	EURNZD.fx	1:30:00 PM	1.68656	1.68657			N/A
5/1/2019	EURNZD.fx	3:30:00 PM	1.6881	1.68777			N/A

5/1/2019	EURPLN	9:30:00 AM	4.2857	4.2889			N/A
5/1/2019	EURPLN	11:30:00 AM	4.2811	4.2824			N/A
5/1/2019	EURPLN	1:30:00 PM	4.2789	4.2818			N/A
5/1/2019	EURPLN	3:30:00 PM	4.2801	4.2831			N/A
5/1/2019	EURPLN.fx	9:30:00 AM	4.28497	4.28969			N/A
5/1/2019	EURPLN.fx	11:30:00 AM	4.28047	4.28503			N/A
5/1/2019	EURPLN.fx	1:30:00 PM	4.27815	4.28242			N/A
5/1/2019	EURPLN.fx	3:30:00 PM	4.27947	4.28377			N/A
5/1/2019	EURRUB	9:30:00 AM					N/A
5/1/2019	EURRUB	11:30:00 AM					N/A
5/1/2019	EURRUB	1:30:00 PM					N/A
5/1/2019	EURRUB	3:30:00 PM					N/A
5/1/2019	EURSEK	9:30:00 AM	10.6459	10.6498			N/A
5/1/2019	EURSEK	11:30:00 AM	10.6672	10.6711			N/A
5/1/2019	EURSEK	1:30:00 PM	10.6663	10.6714			N/A
5/1/2019	EURSEK	3:30:00 PM	10.6716	10.6757			N/A
5/1/2019	EURSEK.fx	9:30:00 AM	10.64738	10.64808			N/A
5/1/2019	EURSEK.fx	11:30:00 AM	10.66876	10.66956			N/A
5/1/2019	EURSEK.fx	1:30:00 PM	10.66805	10.67017			N/A
5/1/2019	EURSEK.fx	3:30:00 PM	10.67308	10.67419			N/A
5/1/2019	EURSGD	9:30:00 AM	1.5239	1.5247			N/A
5/1/2019	EURSGD	11:30:00 AM	1.5255	1.5262			N/A
5/1/2019	EURSGD	1:30:00 PM	1.5264	1.5269			N/A
5/1/2019	EURSGD	3:30:00 PM	1.5264	1.5271			N/A
5/1/2019	EURSGD.fx	9:30:00 AM	1.52428	1.52431			N/A
5/1/2019	EURSGD.fx	11:30:00 AM	1.52585	1.52582			N/A
5/1/2019	EURSGD.fx	1:30:00 PM	1.52684	1.52693			N/A
5/1/2019	EURSGD.fx	3:30:00 PM	1.52677	1.52668			N/A
5/1/2019	EURUSD	9:30:00 AM	1.12131	1.12141			N/A
5/1/2019	EURUSD	11:30:00 AM	1.12262	1.12264			N/A
5/1/2019	EURUSD	1:30:00 PM	1.12356	1.12368			N/A
5/1/2019	EURUSD	3:30:00 PM	1.12289	1.12273			N/A
5/1/2019	EURUSD.fx	9:30:00 AM	1.12151	1.1215			N/A
5/1/2019	EURUSD.fx	11:30:00 AM	1.12282	1.12274			N/A

5/1/2019	EURUSD.fx	1:30:00 PM	1.12376	1.12378			N/A
5/1/2019	EURUSD.fx	3:30:00 PM	1.1231	1.12279			N/A
5/1/2019	EURZAR	9:30:00 AM	16.0128	16.0272			N/A
5/1/2019	EURZAR	11:30:00 AM	16.0427	16.0603			N/A
5/1/2019	EURZAR	1:30:00 PM	16.0544	16.075			N/A
5/1/2019	EURZAR	3:30:00 PM	16.0867	16.1008			N/A
5/1/2019	EURZAR.fx	9:30:00 AM	16.01194	16.02728			N/A
5/1/2019	EURZAR.fx	11:30:00 AM	16.04185	16.06102			N/A
5/1/2019	EURZAR.fx	1:30:00 PM	16.05396	16.07563			N/A
5/1/2019	EURZAR.fx	3:30:00 PM	16.08565	16.102			N/A
5/1/2019	GBPAUD	9:30:00 AM	1.84897	1.84961			N/A
5/1/2019	GBPAUD	11:30:00 AM	1.85059	1.85076			N/A
5/1/2019	GBPAUD	1:30:00 PM	1.85196	1.85272			N/A
5/1/2019	GBPAUD	3:30:00 PM	1.85487	1.85546			N/A
5/1/2019	GBPAUD.fx	9:30:00 AM	1.84937	1.84919			N/A
5/1/2019	GBPAUD.fx	11:30:00 AM	1.851	1.85055			N/A
5/1/2019	GBPAUD.fx	1:30:00 PM	1.85235	1.85234			N/A
5/1/2019	GBPAUD.fx	3:30:00 PM	1.85529	1.85507			N/A
5/1/2019	GBPCAD	9:30:00 AM	1.74436	1.74505			N/A
5/1/2019	GBPCAD	11:30:00 AM	1.74873	1.74867			N/A
5/1/2019	GBPCAD	1:30:00 PM	1.74973	1.75036			N/A
5/1/2019	GBPCAD	3:30:00 PM	1.75132	1.75175			N/A
5/1/2019	GBPCAD.fx	9:30:00 AM	1.74475	1.74463			N/A
5/1/2019	GBPCAD.fx	11:30:00 AM	1.74913	1.74847			N/A
5/1/2019	GBPCAD.fx	1:30:00 PM	1.75013	1.74998			N/A
5/1/2019	GBPCAD.fx	3:30:00 PM	1.75172	1.75135			N/A
5/1/2019	GBPCHF	9:30:00 AM	1.32916	1.32954			N/A
5/1/2019	GBPCHF	11:30:00 AM	1.32862	1.32874			N/A
5/1/2019	GBPCHF	1:30:00 PM	1.32746	1.32788			N/A
5/1/2019	GBPCHF	3:30:00 PM	1.32817	1.32848			N/A
5/1/2019	GBPCHF.fx	9:30:00 AM	1.32936	1.32931			N/A
5/1/2019	GBPCHF.fx	11:30:00 AM	1.32881	1.32867			N/A
5/1/2019	GBPCHF.fx	1:30:00 PM	1.32768	1.32769			N/A
5/1/2019	GBPCHF.fx	3:30:00 PM	1.32836	1.32828			N/A

5/1/2019	GBPCZK	9:30:00 AM	29.766	29.787			N/A
5/1/2019	GBPCZK	11:30:00 AM	29.773	29.782			N/A
5/1/2019	GBPCZK	1:30:00 PM	29.739	29.761			N/A
5/1/2019	GBPCZK	3:30:00 PM	29.782	29.8			N/A
5/1/2019	GBPDKK	9:30:00 AM	8.674	8.685			N/A
5/1/2019	GBPDKK	11:30:00 AM	8.679	8.688			N/A
5/1/2019	GBPDKK	1:30:00 PM	8.678	8.689			N/A
5/1/2019	GBPDKK	3:30:00 PM	8.685	8.696			N/A
5/1/2019	GBPDKK.fx	9:30:00 AM	8.6724	8.6852			N/A
5/1/2019	GBPDKK.fx	11:30:00 AM	8.6778	8.6891			N/A
5/1/2019	GBPDKK.fx	1:30:00 PM	8.6765	8.6894			N/A
5/1/2019	GBPDKK.fx	3:30:00 PM	8.6838	8.696			N/A
5/1/2019	GBPHKD	9:30:00 AM	10.222	10.2272			N/A
5/1/2019	GBPHKD	11:30:00 AM	10.2422	10.2426			N/A
5/1/2019	GBPHKD	1:30:00 PM	10.2489	10.2544			N/A
5/1/2019	GBPHKD	3:30:00 PM	10.25	10.2532			N/A
5/1/2019	GBPHUF	9:30:00 AM	376.15	376.5			N/A
5/1/2019	GBPHUF	11:30:00 AM	376.87	377.02			N/A
5/1/2019	GBPHUF	1:30:00 PM	376.81	377.28			N/A
5/1/2019	GBPHUF	3:30:00 PM	377.11	377.57			N/A
5/1/2019	GBPJPY	9:30:00 AM	145.436	145.47			N/A
5/1/2019	GBPJPY	11:30:00 AM	145.6	145.597			N/A
5/1/2019	GBPJPY	1:30:00 PM	145.528	145.572			N/A
5/1/2019	GBPJPY	3:30:00 PM	145.594	145.622			N/A
5/1/2019	GBPJPY.fx	9:30:00 AM	145.456	145.45			N/A
5/1/2019	GBPJPY.fx	11:30:00 AM	145.62	145.589			N/A
5/1/2019	GBPJPY.fx	1:30:00 PM	145.547	145.554			N/A
5/1/2019	GBPJPY.fx	3:30:00 PM	145.615	145.601			N/A
5/1/2019	GBPMXN	9:30:00 AM	24.667	24.6816			N/A
5/1/2019	GBPMXN	11:30:00 AM	24.6985	24.6998			N/A
5/1/2019	GBPMXN	1:30:00 PM	24.7255	24.7409			N/A
5/1/2019	GBPMXN	3:30:00 PM	24.7091	24.7175			N/A
5/1/2019	GBPNOK	9:30:00 AM	11.2423	11.2528			N/A
5/1/2019	GBPNOK	11:30:00 AM	11.2705	11.2799			N/A

5/1/2019	GBPNOK	1:30:00 PM	11.2692	11.2806			N/A
5/1/2019	GBPNOK	3:30:00 PM	11.2826	11.2931			N/A
5/1/2019	GBPNOK.fx	9:30:00 AM	11.24702	11.2479			N/A
5/1/2019	GBPNOK.fx	11:30:00 AM	11.2755	11.27506			N/A
5/1/2019	GBPNOK.fx	1:30:00 PM	11.27383	11.27579			N/A
5/1/2019	GBPNOK.fx	3:30:00 PM	11.28758	11.28817			N/A
5/1/2019	GBPNZD	9:30:00 AM	1.96066	1.9613			N/A
5/1/2019	GBPNZD	11:30:00 AM	1.96189	1.96203			N/A
5/1/2019	GBPNZD	1:30:00 PM	1.96127	1.962			N/A
5/1/2019	GBPNZD	3:30:00 PM	1.96445	1.96495			N/A
5/1/2019	GBPNZD.fx	9:30:00 AM	1.96103	1.96091			N/A
5/1/2019	GBPNZD.fx	11:30:00 AM	1.96228	1.96177			N/A
5/1/2019	GBPNZD.fx	1:30:00 PM	1.96165	1.96161			N/A
5/1/2019	GBPNZD.fx	3:30:00 PM	1.96482	1.96458			N/A
5/1/2019	GBPPLN	9:30:00 AM	4.9827	4.9844			N/A
5/1/2019	GBPPLN	11:30:00 AM	4.9809	4.9812			N/A
5/1/2019	GBPPLN	1:30:00 PM	4.9772	4.9792			N/A
5/1/2019	GBPPLN	3:30:00 PM	4.9828	4.984			N/A
5/1/2019	GBPPLN.fx	9:30:00 AM	4.98026	4.98685			N/A
5/1/2019	GBPPLN.fx	11:30:00 AM	4.97851	4.98402			N/A
5/1/2019	GBPPLN.fx	1:30:00 PM	4.97496	4.98136			N/A
5/1/2019	GBPPLN.fx	3:30:00 PM	4.98046	4.98639			N/A
5/1/2019	GBPSEK	9:30:00 AM	12.3748	12.3822			N/A
5/1/2019	GBPSEK	11:30:00 AM	12.4074	12.4131			N/A
5/1/2019	GBPSEK	1:30:00 PM	12.4044	12.4138			N/A
5/1/2019	GBPSEK	3:30:00 PM	12.4198	12.4279			N/A
5/1/2019	GBPSEK.fx	9:30:00 AM	12.37073	12.38578			N/A
5/1/2019	GBPSEK.fx	11:30:00 AM	12.4035	12.41808			N/A
5/1/2019	GBPSEK.fx	1:30:00 PM	12.40077	12.41745			N/A
5/1/2019	GBPSEK.fx	3:30:00 PM	12.41631	12.4315			N/A
5/1/2019	GBPSGD	9:30:00 AM	1.7717	1.7724			N/A
5/1/2019	GBPSGD	11:30:00 AM	1.7748	1.7748			N/A
5/1/2019	GBPSGD	1:30:00 PM	1.7756	1.7763			N/A
5/1/2019	GBPSGD	3:30:00 PM	1.7769	1.7774			N/A

5/1/2019	GBPSGD.fx	9:30:00 AM	1.7699	1.77419			N/A
5/1/2019	GBPSGD.fx	11:30:00 AM	1.77288	1.77688			N/A
5/1/2019	GBPSGD.fx	1:30:00 PM	1.77375	1.7781			N/A
5/1/2019	GBPSGD.fx	3:30:00 PM	1.77504	1.77914			N/A
5/1/2019	GBPUSD	9:30:00 AM	1.30378	1.30373			N/A
5/1/2019	GBPUSD	11:30:00 AM	1.30618	1.30576			N/A
5/1/2019	GBPUSD	1:30:00 PM	1.30706	1.30706			N/A
5/1/2019	GBPUSD	3:30:00 PM	1.30723	1.3069			N/A
5/1/2019	GBPUSD.fx	9:30:00 AM	1.30383	1.30368			N/A
5/1/2019	GBPUSD.fx	11:30:00 AM	1.30624	1.30576			N/A
5/1/2019	GBPUSD.fx	1:30:00 PM	1.30712	1.30702			N/A
5/1/2019	GBPUSD.fx	3:30:00 PM	1.30728	1.30684			N/A
5/1/2019	GBPZAR	9:30:00 AM	18.6127	18.6352			N/A
5/1/2019	GBPZAR	11:30:00 AM	18.6601	18.6822			N/A
5/1/2019	GBPZAR	1:30:00 PM	18.6705	18.6995			N/A
5/1/2019	GBPZAR	3:30:00 PM	18.7207	18.7447			N/A
5/1/2019	GBPZAR.fx	9:30:00 AM	18.6197	18.6282			N/A
5/1/2019	GBPZAR.fx	11:30:00 AM	18.6663	18.6788			N/A
5/1/2019	GBPZAR.fx	1:30:00 PM	18.6774	18.6923			N/A
5/1/2019	GBPZAR.fx	3:30:00 PM	18.7274	18.7377			N/A
5/1/2019	GOLD	9:30:00 AM	1279.01	1279.27			N/A
5/1/2019	GOLD	11:30:00 AM	1280.99	1281.22			N/A
5/1/2019	GOLD	1:30:00 PM	1282.29	1282.63			N/A
5/1/2019	GOLD	3:30:00 PM	1282.2	1281.15			N/A
5/1/2019	HKDJPY	9:30:00 AM	14.22	14.23			N/A
5/1/2019	HKDJPY	11:30:00 AM	14.21	14.23			N/A
5/1/2019	HKDJPY	1:30:00 PM					N/A
5/1/2019	HKDJPY	3:30:00 PM	14.2	14.2			N/A
5/1/2019	HKDJPY.fx	9:30:00 AM	14.214	14.222			N/A
5/1/2019	HKDJPY.fx	11:30:00 AM	14.203	14.211			N/A
5/1/2019	HKDJPY.fx	1:30:00 PM	14.187	14.195			N/A
5/1/2019	HKDJPY.fx	3:30:00 PM	14.194	14.197			N/A
5/1/2019	HUFJPY	9:30:00 AM	0.3863	0.3867			N/A
5/1/2019	HUFJPY	11:30:00 AM	0.3861	0.3864			N/A

5/1/2019	HUFJPY	1:30:00 PM	0.386	0.3864			N/A
5/1/2019	HUFJPY	3:30:00 PM	0.3858	0.3861			N/A
5/1/2019	JP225.i	9:30:00 AM	22456.73	22474.23			N/A
5/1/2019	JP225.i	11:30:00 AM	22449.23	22466.73			N/A
5/1/2019	JP225.i	1:30:00 PM					N/A
5/1/2019	JP225.i	3:30:00 PM	22401.73	22414.23			N/A
5/1/2019	MXNJPY	9:30:00 AM	5.89	5.91			N/A
5/1/2019	MXNJPY	11:30:00 AM	5.88	5.9			N/A
5/1/2019	MXNJPY	1:30:00 PM	5.88	5.89			N/A
5/1/2019	MXNJPY	3:30:00 PM	5.88	5.89			N/A
5/1/2019	NASDAQ.i	9:30:00 AM					N/A
5/1/2019	NASDAQ.i	11:30:00 AM					N/A
5/1/2019	NASDAQ.i	1:30:00 PM					N/A
5/1/2019	NASDAQ.i	3:30:00 PM					N/A
5/1/2019	NOKJPY	9:30:00 AM	12.92	12.95			N/A
5/1/2019	NOKJPY	11:30:00 AM	12.9	12.93			N/A
5/1/2019	NOKJPY	1:30:00 PM	12.9	12.93			N/A
5/1/2019	NOKJPY	3:30:00 PM	12.89	12.92			N/A
5/1/2019	NOKJPY.fx	9:30:00 AM	12.928	12.936			N/A
5/1/2019	NOKJPY.fx	11:30:00 AM	12.909	12.916			N/A
5/1/2019	NOKJPY.fx	1:30:00 PM	12.904	12.913			N/A
5/1/2019	NOKJPY.fx	3:30:00 PM	12.896	12.902			N/A
5/1/2019	NZDCAD	9:30:00 AM	0.88932	0.89011			N/A
5/1/2019	NZDCAD	11:30:00 AM	0.89108	0.89166			N/A
5/1/2019	NZDCAD	1:30:00 PM	0.89181	0.89248			N/A
5/1/2019	NZDCAD	3:30:00 PM	0.89126	0.89166			N/A
5/1/2019	NZDCAD.fx	9:30:00 AM	0.88965	0.88977			N/A
5/1/2019	NZDCAD.fx	11:30:00 AM	0.89141	0.89132			N/A
5/1/2019	NZDCAD.fx	1:30:00 PM	0.89215	0.89213			N/A
5/1/2019	NZDCAD.fx	3:30:00 PM	0.89162	0.89131			N/A
5/1/2019	NZDCHF	9:30:00 AM	0.67753	0.67828			N/A
5/1/2019	NZDCHF	11:30:00 AM	0.67689	0.67759			N/A
5/1/2019	NZDCHF	1:30:00 PM	0.67646	0.67721			N/A
5/1/2019	NZDCHF	3:30:00 PM	0.67581	0.67637			N/A

5/1/2019	NZDCHF.fx	9:30:00 AM	0.67787	0.67793			N/A
5/1/2019	NZDCHF.fx	11:30:00 AM	0.67723	0.67723			N/A
5/1/2019	NZDCHF.fx	1:30:00 PM	0.6768	0.67685			N/A
5/1/2019	NZDCHF.fx	3:30:00 PM	0.67616	0.67601			N/A
5/1/2019	NZDCZK	9:30:00 AM	15.177	15.19			N/A
5/1/2019	NZDCZK	11:30:00 AM	15.173	15.186			N/A
5/1/2019	NZDCZK	1:30:00 PM	15.159	15.171			N/A
5/1/2019	NZDCZK	3:30:00 PM	15.159	15.167			N/A
5/1/2019	NZDDKK	9:30:00 AM	4.423	4.426			N/A
5/1/2019	NZDDKK	11:30:00 AM	4.423	4.427			N/A
5/1/2019	NZDDKK	1:30:00 PM					N/A
5/1/2019	NZDDKK	3:30:00 PM					N/A
5/1/2019	NZDHKD	9:30:00 AM	5.2125	5.2154			N/A
5/1/2019	NZDHKD	11:30:00 AM	5.219	5.2219			N/A
5/1/2019	NZDHKD	1:30:00 PM	5.2239	5.2268			N/A
5/1/2019	NZDHKD	3:30:00 PM	5.2168	5.2185			N/A
5/1/2019	NZDHUF	9:30:00 AM	191.78	192.01			N/A
5/1/2019	NZDHUF	11:30:00 AM	192.03	192.23			N/A
5/1/2019	NZDHUF	1:30:00 PM	192.05	192.34			N/A
5/1/2019	NZDHUF	3:30:00 PM	191.9	192.19			N/A
5/1/2019	NZDJPY	9:30:00 AM	74.122	74.199			N/A
5/1/2019	NZDJPY	11:30:00 AM	74.159	74.232			N/A
5/1/2019	NZDJPY	1:30:00 PM	74.146	74.222			N/A
5/1/2019	NZDJPY	3:30:00 PM	74.065	74.126			N/A
5/1/2019	NZDJPY.fx	9:30:00 AM	74.152	74.167			N/A
5/1/2019	NZDJPY.fx	11:30:00 AM	74.192	74.2			N/A
5/1/2019	NZDJPY.fx	1:30:00 PM	74.177	74.189			N/A
5/1/2019	NZDJPY.fx	3:30:00 PM	74.096	74.093			N/A
5/1/2019	NZDMXN	9:30:00 AM	12.578	12.5849			N/A
5/1/2019	NZDMXN	11:30:00 AM	12.5873	12.5917			N/A
5/1/2019	NZDMXN	1:30:00 PM	12.6044	12.6103			N/A
5/1/2019	NZDMXN	3:30:00 PM	12.5767	12.5789			N/A
5/1/2019	NZDNOK	9:30:00 AM	5.7294	5.7332			N/A
5/1/2019	NZDNOK	11:30:00 AM	5.7422	5.7441			N/A

5/1/2019	NZDNOK	1:30:00 PM	5.7434	5.7471			N/A
5/1/2019	NZDNOK	3:30:00 PM	5.7426	5.745			N/A
5/1/2019	NZDPLN	9:30:00 AM	2.5395	2.5408			N/A
5/1/2019	NZDPLN	11:30:00 AM	2.5374	2.5385			N/A
5/1/2019	NZDPLN	1:30:00 PM	2.5357	2.5369			N/A
5/1/2019	NZDPLN	3:30:00 PM	2.5349	2.5362			N/A
5/1/2019	NZDSEK	9:30:00 AM	6.3059	6.3128			N/A
5/1/2019	NZDSEK	11:30:00 AM	6.3196	6.3259			N/A
5/1/2019	NZDSEK	1:30:00 PM	6.3199	6.3266			N/A
5/1/2019	NZDSEK	3:30:00 PM	6.3182	6.3243			N/A
5/1/2019	NZDSGD	9:30:00 AM	0.9033	0.904			N/A
5/1/2019	NZDSGD	11:30:00 AM	0.9043	0.9048			N/A
5/1/2019	NZDSGD	1:30:00 PM	0.905	0.9057			N/A
5/1/2019	NZDSGD	3:30:00 PM	0.9043	0.9047			N/A
5/1/2019	NZDSGD.fx	9:30:00 AM	0.90331	0.90391			N/A
5/1/2019	NZDSGD.fx	11:30:00 AM	0.9043	0.90489			N/A
5/1/2019	NZDSGD.fx	1:30:00 PM	0.90501	0.90561			N/A
5/1/2019	NZDSGD.fx	3:30:00 PM	0.90431	0.90461			N/A
5/1/2019	NZDUSD	9:30:00 AM	0.66472	0.6649			N/A
5/1/2019	NZDUSD	11:30:00 AM	0.66551	0.66569			N/A
5/1/2019	NZDUSD	1:30:00 PM	0.66617	0.66635			N/A
5/1/2019	NZDUSD	3:30:00 PM	0.66533	0.66512			N/A
5/1/2019	NZDUSD.fx	9:30:00 AM	0.66479	0.66492			N/A
5/1/2019	NZDUSD.fx	11:30:00 AM	0.66559	0.66569			N/A
5/1/2019	NZDUSD.fx	1:30:00 PM	0.66625	0.66636			N/A
5/1/2019	NZDUSD.fx	3:30:00 PM	0.6654	0.66513			N/A
5/1/2019	NZDZAR	9:30:00 AM	9.481	9.4967			N/A
5/1/2019	NZDZAR	11:30:00 AM	9.5023	9.5179			N/A
5/1/2019	NZDZAR	1:30:00 PM	9.5128	9.5298			N/A
5/1/2019	NZDZAR	3:30:00 PM	9.5225	9.5382			N/A
5/1/2019	SEKJPY	9:30:00 AM	11.75	11.76			N/A
5/1/2019	SEKJPY	11:30:00 AM	11.73	11.74			N/A
5/1/2019	SEKJPY	1:30:00 PM					N/A
5/1/2019	SEKJPY	3:30:00 PM					N/A

5/1/2019	SEKJPY.fx	9:30:00 AM	11.744	11.761			N/A
5/1/2019	SEKJPY.fx	11:30:00 AM	11.724	11.742			N/A
5/1/2019	SEKJPY.fx	1:30:00 PM	11.721	11.739			N/A
5/1/2019	SEKJPY.fx	3:30:00 PM	11.713	11.73			N/A
5/1/2019	SGDJPY	9:30:00 AM	82.06	82.08			N/A
5/1/2019	SGDJPY	11:30:00 AM	81.99	82.02			N/A
5/1/2019	SGDJPY	1:30:00 PM	81.93	81.94			N/A
5/1/2019	SGDJPY	3:30:00 PM	81.89	81.91			N/A
5/1/2019	SILVER	9:30:00 AM	14.69	15.08			N/A
5/1/2019	SILVER	11:30:00 AM	14.73	15.11			N/A
5/1/2019	SILVER	1:30:00 PM	14.72	15.11			N/A
5/1/2019	SILVER	3:30:00 PM	14.66	15.03			N/A
5/1/2019	SPX500.i	9:30:00 AM	2958.64	2959.44			N/A
5/1/2019	SPX500.i	11:30:00 AM	2958.89	2960.19			N/A
5/1/2019	SPX500.i	1:30:00 PM	2956.89	2958.19			N/A
5/1/2019	SPX500.i	3:30:00 PM	2957.89	2958.69			N/A
5/1/2019	UK100.i	9:30:00 AM					N/A
5/1/2019	UK100.i	11:30:00 AM	7442.27	7444.6			N/A
5/1/2019	UK100.i	1:30:00 PM	7416.6	7416.6			N/A
5/1/2019	UK100.i	3:30:00 PM	7422.1	7423.52			N/A
5/1/2019	USDCAD	9:30:00 AM	1.33816	1.33832			N/A
5/1/2019	USDCAD	11:30:00 AM	1.33922	1.33907			N/A
5/1/2019	USDCAD	1:30:00 PM	1.33895	1.33899			N/A
5/1/2019	USDCAD	3:30:00 PM	1.34004	1.33996			N/A
5/1/2019	USDCAD.fx	9:30:00 AM	1.33819	1.33829			N/A
5/1/2019	USDCAD.fx	11:30:00 AM	1.33926	1.33904			N/A
5/1/2019	USDCAD.fx	1:30:00 PM	1.33898	1.33895			N/A
5/1/2019	USDCAD.fx	3:30:00 PM	1.34007	1.33992			N/A
5/1/2019	USDCHF	9:30:00 AM	1.01958	1.0197			N/A
5/1/2019	USDCHF	11:30:00 AM	1.01738	1.01743			N/A
5/1/2019	USDCHF	1:30:00 PM	1.01572	1.01585			N/A
5/1/2019	USDCHF	3:30:00 PM	1.01629	1.01619			N/A
5/1/2019	USDCHF.fx	9:30:00 AM	1.01963	1.01964			N/A
5/1/2019	USDCHF.fx	11:30:00 AM	1.01742	1.01736			N/A

5/1/2019	USDCHF.fx	1:30:00 PM	1.01576	1.0158			N/A
5/1/2019	USDCHF.fx	3:30:00 PM	1.01633	1.01613			N/A
5/1/2019	USDCZK	9:30:00 AM	22.848	22.871			N/A
5/1/2019	USDCZK	11:30:00 AM	22.814	22.835			N/A
5/1/2019	USDCZK	1:30:00 PM	22.771	22.791			N/A
5/1/2019	USDCZK	3:30:00 PM	22.803	22.821			N/A
5/1/2019	USDCZK.fx	9:30:00 AM	22.855	22.863			N/A
5/1/2019	USDCZK.fx	11:30:00 AM	22.8217	22.8262			N/A
5/1/2019	USDCZK.fx	1:30:00 PM	22.779	22.7852			N/A
5/1/2019	USDCZK.fx	3:30:00 PM	22.8108	22.8117			N/A
5/1/2019	USDDKK	9:30:00 AM	6.6553	6.6597			N/A
5/1/2019	USDDKK	11:30:00 AM	6.6482	6.6515			N/A
5/1/2019	USDDKK	1:30:00 PM	6.642	6.646			N/A
5/1/2019	USDDKK	3:30:00 PM	6.648	6.65			N/A
5/1/2019	USDDKK.fx	9:30:00 AM	6.65587	6.65739			N/A
5/1/2019	USDDKK.fx	11:30:00 AM	6.64853	6.64942			N/A
5/1/2019	USDDKK.fx	1:30:00 PM	6.64237	6.64401			N/A
5/1/2019	USDDKK.fx	3:30:00 PM	6.64831	6.64801			N/A
5/1/2019	USDHKD	9:30:00 AM	7.8445	7.8446			N/A
5/1/2019	USDHKD	11:30:00 AM	7.8449	7.8451			N/A
5/1/2019	USDHKD	1:30:00 PM	7.8446	7.845			N/A
5/1/2019	USDHKD	3:30:00 PM					N/A
5/1/2019	USDHKD.fx	9:30:00 AM	7.84444	7.84483			N/A
5/1/2019	USDHKD.fx	11:30:00 AM	7.84494	7.8455			N/A
5/1/2019	USDHKD.fx	1:30:00 PM	7.84452	7.84512			N/A
5/1/2019	USDHKD.fx	3:30:00 PM					N/A
5/1/2019	USDHUF	9:30:00 AM	288.69	289.1			N/A
5/1/2019	USDHUF	11:30:00 AM	288.62	289.07			N/A
5/1/2019	USDHUF	1:30:00 PM	288.34	288.82			N/A
5/1/2019	USDHUF	3:30:00 PM	288.61	289.01			N/A
5/1/2019	USDHUF.fx	9:30:00 AM	288.885	288.939			N/A
5/1/2019	USDHUF.fx	11:30:00 AM	288.809	288.877			N/A
5/1/2019	USDHUF.fx	1:30:00 PM	288.552	288.627			N/A
5/1/2019	USDHUF.fx	3:30:00 PM	288.804	288.807			N/A

5/1/2019	USDINR	9:30:00 AM					N/A
5/1/2019	USDINR	11:30:00 AM					N/A
5/1/2019	USDINR	1:30:00 PM					N/A
5/1/2019	USDINR	3:30:00 PM					N/A
5/1/2019	USDJPY	9:30:00 AM	111.525	111.545			N/A
5/1/2019	USDJPY	11:30:00 AM	111.448	111.461			N/A
5/1/2019	USDJPY	1:30:00 PM	111.32	111.332			N/A
5/1/2019	USDJPY	3:30:00 PM	111.38	111.351			N/A
5/1/2019	USDJPY.fx	9:30:00 AM	111.532	111.538			N/A
5/1/2019	USDJPY.fx	11:30:00 AM	111.454	111.454			N/A
5/1/2019	USDJPY.fx	1:30:00 PM	111.326	111.324			N/A
5/1/2019	USDJPY.fx	3:30:00 PM	111.386	111.344			N/A
5/1/2019	USDMXN	9:30:00 AM	18.928	18.937			N/A
5/1/2019	USDMXN	11:30:00 AM	18.917	18.923			N/A
5/1/2019	USDMXN	1:30:00 PM	18.923	18.932			N/A
5/1/2019	USDMXN	3:30:00 PM	18.91	18.915			N/A
5/1/2019	USDMXN.f	9:30:00 AM	18.9313	18.9333			N/A
5/1/2019	USDMXN.f	11:30:00 AM	18.9215	18.9215			N/A
5/1/2019	USDMXN.f	1:30:00 PM	18.9274	18.9284			N/A
5/1/2019	USDMXN.f	3:30:00 PM	18.9137	18.9099			N/A
5/1/2019	USDNOK	9:30:00 AM	8.6229	8.6312			N/A
5/1/2019	USDNOK	11:30:00 AM	8.6296	8.6373			N/A
5/1/2019	USDNOK	1:30:00 PM	8.622	8.6307			N/A
5/1/2019	USDNOK	3:30:00 PM	8.6326	8.6395			N/A
5/1/2019	USDNOK.fx	9:30:00 AM	8.62682	8.62687			N/A
5/1/2019	USDNOK.fx	11:30:00 AM	8.63377	8.63274			N/A
5/1/2019	USDNOK.fx	1:30:00 PM	8.62588	8.62642			N/A
5/1/2019	USDNOK.fx	3:30:00 PM	8.63646	8.63505			N/A
5/1/2019	USDPLN	9:30:00 AM	3.8209	3.8227			N/A
5/1/2019	USDPLN	11:30:00 AM	3.8128	3.8142			N/A
5/1/2019	USDPLN	1:30:00 PM	3.8072	3.8087			N/A
5/1/2019	USDPLN	3:30:00 PM	3.8117	3.812			N/A
5/1/2019	USDPLN.fx	9:30:00 AM	3.82011	3.82351			N/A
5/1/2019	USDPLN.fx	11:30:00 AM	3.81198	3.81487			N/A

5/1/2019	USDPLN.fx	1:30:00 PM	3.80635	3.80944			N/A
5/1/2019	USDPLN.fx	3:30:00 PM	3.81073	3.81281			N/A
5/1/2019	USDRUB	9:30:00 AM					N/A
5/1/2019	USDRUB	11:30:00 AM	64.328	64.726			N/A
5/1/2019	USDRUB	1:30:00 PM	64.397	64.794			N/A
5/1/2019	USDRUB	3:30:00 PM	64.498	64.896			N/A
5/1/2019	USDSEK	9:30:00 AM	9.4919	9.4955			N/A
5/1/2019	USDSEK	11:30:00 AM	9.5002	9.5047			N/A
5/1/2019	USDSEK	1:30:00 PM	9.4914	9.4961			N/A
5/1/2019	USDSEK	3:30:00 PM	9.5038	9.5054			N/A
5/1/2019	USDSEK.fx	9:30:00 AM	9.49447	9.49335			N/A
5/1/2019	USDSEK.fx	11:30:00 AM	9.50325	9.50259			N/A
5/1/2019	USDSEK.fx	1:30:00 PM	9.49397	9.49432			N/A
5/1/2019	USDSEK.fx	3:30:00 PM	9.50691	9.50346			N/A
5/1/2019	USDSGD	9:30:00 AM	1.359	1.3592			N/A
5/1/2019	USDSGD	11:30:00 AM	1.3588	1.3591			N/A
5/1/2019	USDSGD	1:30:00 PM	1.3585	1.3589			N/A
5/1/2019	USDSGD	3:30:00 PM	1.3595	1.3596			N/A
5/1/2019	USDSGD.fx	9:30:00 AM	1.35893	1.35937			N/A
5/1/2019	USDSGD.fx	11:30:00 AM	1.35876	1.35917			N/A
5/1/2019	USDSGD.fx	1:30:00 PM	1.35845	1.35899			N/A
5/1/2019	USDSGD.fx	3:30:00 PM	1.35944	1.35971			N/A
5/1/2019	USDZAR	9:30:00 AM	14.2773	14.2905			N/A
5/1/2019	USDZAR	11:30:00 AM	14.2875	14.3052			N/A
5/1/2019	USDZAR	1:30:00 PM	14.2856	14.3051			N/A
5/1/2019	USDZAR	3:30:00 PM	14.3278	14.3368			N/A
5/1/2019	USDZAR.fx	9:30:00 AM	14.28287	14.28388			N/A
5/1/2019	USDZAR.fx	11:30:00 AM	14.29277	14.29993			N/A
5/1/2019	USDZAR.fx	1:30:00 PM	14.29155	14.2992			N/A
5/1/2019	USDZAR.fx	3:30:00 PM	14.33352	14.33114			N/A
5/1/2019	XAUUSD	9:30:00 AM	1279.01	1279.27			N/A
5/1/2019	XAUUSD	11:30:00 AM	1280.99	1281.23			N/A
5/1/2019	XAUUSD	1:30:00 PM	1282.3	1282.63			N/A
5/1/2019	XAUUSD	3:30:00 PM	1282.19	1281.15			N/A

5/1/2019	ZARJPY	9:30:00 AM	7.78	7.8			N/A
5/1/2019	ZARJPY	11:30:00 AM	7.77	7.8			N/A
5/1/2019	ZARJPY	1:30:00 PM	7.76	7.8			N/A
5/1/2019	ZARJPY	3:30:00 PM	7.75	7.77			N/A
5/1/2019	ZARJPY.fx	9:30:00 AM	7.801	7.804			N/A
5/1/2019	ZARJPY.fx	11:30:00 AM	7.787	7.792			N/A
5/1/2019	ZARJPY.fx	1:30:00 PM	7.778	7.784			N/A
5/1/2019	ZARJPY.fx	3:30:00 PM	7.763	7.765			N/A
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5/2/2019	#NG.f	9:30:00 AM	2.602	2.621			N/A
5/2/2019	#NG.f	11:30:00 AM					N/A
5/2/2019	#NG.f	1:30:00 PM					N/A
5/2/2019	#NG.f	3:30:00 PM	2.585	2.603			N/A
5/2/2019	#NKE	9:30:00 AM					N/A
5/2/2019	#NKE	11:30:00 AM					N/A

5/2/2019	#NKE	1:30:00 PM					N/A
5/2/2019	#NKE	3:30:00 PM					N/A
5/2/2019	#NOK	9:30:00 AM					N/A
5/2/2019	#NOK	11:30:00 AM					N/A
5/2/2019	#NOK	1:30:00 PM					N/A
5/2/2019	#NOK	3:30:00 PM					N/A
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5/2/2019	#NTDOY	11:30:00 AM					N/A
5/2/2019	#NTDOY	1:30:00 PM					N/A
5/2/2019	#NTDOY	3:30:00 PM					N/A
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5/2/2019	#ORAN	11:30:00 AM					N/A
5/2/2019	#ORAN	1:30:00 PM					N/A
5/2/2019	#ORAN	3:30:00 PM					N/A
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5/2/2019	#ORCL	1:30:00 PM					N/A
5/2/2019	#ORCL	3:30:00 PM					N/A
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5/2/2019	#PBR	1:30:00 PM					N/A
5/2/2019	#PBR	3:30:00 PM					N/A
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5/2/2019	#PEP	11:30:00 AM					N/A
5/2/2019	#PEP	1:30:00 PM					N/A
5/2/2019	#PEP	3:30:00 PM					N/A
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5/2/2019	#PFE	3:30:00 PM					N/A
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5/2/2019	#PG	11:30:00 AM					N/A
5/2/2019	#PG	1:30:00 PM					N/A
5/2/2019	#PG	3:30:00 PM					N/A

5/2/2019	#POT	9:30:00 AM					N/A
5/2/2019	#POT	11:30:00 AM					N/A
5/2/2019	#POT	1:30:00 PM					N/A
5/2/2019	#POT	3:30:00 PM					N/A
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5/2/2019	#QCOM	3:30:00 PM					N/A
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5/2/2019	#QQQ	1:30:00 PM					N/A
5/2/2019	#QQQ	3:30:00 PM					N/A
5/2/2019	#Ripple	9:30:00 AM	0.3143	0.3188			N/A
5/2/2019	#Ripple	11:30:00 AM					N/A
5/2/2019	#Ripple	1:30:00 PM					N/A
5/2/2019	#Ripple	3:30:00 PM					N/A
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5/2/2019	#S	1:30:00 PM					N/A
5/2/2019	#S	3:30:00 PM					N/A
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5/2/2019	#SBUX	11:30:00 AM					N/A
5/2/2019	#SBUX	1:30:00 PM					N/A
5/2/2019	#SBUX	3:30:00 PM					N/A
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5/2/2019	#SNE	1:30:00 PM					N/A
5/2/2019	#SNE	3:30:00 PM					N/A
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5/2/2019	#SPY	3:30:00 PM					N/A
5/2/2019	#T	9:30:00 AM					N/A
5/2/2019	#T	11:30:00 AM					N/A

5/2/2019	#T	1:30:00 PM					N/A
5/2/2019	#T	3:30:00 PM					N/A
5/2/2019	#TEVA	9:30:00 AM					N/A
5/2/2019	#TEVA	11:30:00 AM					N/A
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5/2/2019	#TEVA	3:30:00 PM					N/A
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5/2/2019	#TRI	11:30:00 AM					N/A
5/2/2019	#TRI	1:30:00 PM					N/A
5/2/2019	#TRI	3:30:00 PM					N/A
5/2/2019	#TRV	9:30:00 AM					N/A
5/2/2019	#TRV	11:30:00 AM					N/A
5/2/2019	#TRV	1:30:00 PM					N/A
5/2/2019	#TRV	3:30:00 PM					N/A
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5/2/2019	#TSCO	11:30:00 AM					N/A
5/2/2019	#TSCO	1:30:00 PM					N/A
5/2/2019	#TSCO	3:30:00 PM					N/A
5/2/2019	#TSLA	9:30:00 AM					N/A
5/2/2019	#TSLA	11:30:00 AM					N/A
5/2/2019	#TSLA	1:30:00 PM					N/A
5/2/2019	#TSLA	3:30:00 PM					N/A
5/2/2019	#TWTR	9:30:00 AM					N/A
5/2/2019	#TWTR	11:30:00 AM					N/A
5/2/2019	#TWTR	1:30:00 PM					N/A
5/2/2019	#TWTR	3:30:00 PM					N/A
5/2/2019	#UBS	9:30:00 AM					N/A
5/2/2019	#UBS	11:30:00 AM					N/A
5/2/2019	#UBS	1:30:00 PM					N/A
5/2/2019	#UBS	3:30:00 PM					N/A
5/2/2019	#UL	9:30:00 AM					N/A
5/2/2019	#UL	11:30:00 AM					N/A
5/2/2019	#UL	1:30:00 PM					N/A
5/2/2019	#UL	3:30:00 PM					N/A

5/2/2019	#UPS	9:30:00 AM					N/A
5/2/2019	#UPS	11:30:00 AM					N/A
5/2/2019	#UPS	1:30:00 PM					N/A
5/2/2019	#UPS	3:30:00 PM					N/A
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5/2/2019	#UTX	1:30:00 PM					N/A
5/2/2019	#UTX	3:30:00 PM					N/A
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5/2/2019	#V	11:30:00 AM					N/A
5/2/2019	#V	1:30:00 PM					N/A
5/2/2019	#V	3:30:00 PM					N/A
5/2/2019	#VOD	9:30:00 AM					N/A
5/2/2019	#VOD	11:30:00 AM					N/A
5/2/2019	#VOD	1:30:00 PM					N/A
5/2/2019	#VOD	3:30:00 PM					N/A
5/2/2019	#VZ	9:30:00 AM					N/A
5/2/2019	#VZ	11:30:00 AM					N/A
5/2/2019	#VZ	1:30:00 PM					N/A
5/2/2019	#VZ	3:30:00 PM					N/A
5/2/2019	#WDC	9:30:00 AM					N/A
5/2/2019	#WDC	11:30:00 AM					N/A
5/2/2019	#WDC	1:30:00 PM					N/A
5/2/2019	#WDC	3:30:00 PM					N/A
5/2/2019	#WFC	9:30:00 AM					N/A
5/2/2019	#WFC	11:30:00 AM					N/A
5/2/2019	#WFC	1:30:00 PM					N/A
5/2/2019	#WFC	3:30:00 PM					N/A
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5/2/2019	#WMT	1:30:00 PM					N/A
5/2/2019	#WMT	3:30:00 PM					N/A
5/2/2019	#XOM	9:30:00 AM					N/A
5/2/2019	#XOM	11:30:00 AM					N/A

5/2/2019	#XOM	1:30:00 PM					N/A
5/2/2019	#XOM	3:30:00 PM					N/A
5/2/2019	#YHOO	9:30:00 AM					N/A
5/2/2019	#YHOO	11:30:00 AM					N/A
5/2/2019	#YHOO	1:30:00 PM					N/A
5/2/2019	#YHOO	3:30:00 PM					N/A
5/2/2019	#ZNGA	9:30:00 AM					N/A
5/2/2019	#ZNGA	11:30:00 AM					N/A
5/2/2019	#ZNGA	1:30:00 PM					N/A
5/2/2019	#ZNGA	3:30:00 PM					N/A
5/2/2019	AUDCAD	9:30:00 AM	0.94277	0.94345			N/A
5/2/2019	AUDCAD	11:30:00 AM	0.94425	0.94494			N/A
5/2/2019	AUDCAD	1:30:00 PM	0.94318	0.94391			N/A
5/2/2019	AUDCAD	3:30:00 PM	0.9431	0.94362			N/A
5/2/2019	AUDCAD.fx	9:30:00 AM	0.94309	0.9431			N/A
5/2/2019	AUDCAD.fx	11:30:00 AM	0.94458	0.94459			N/A
5/2/2019	AUDCAD.fx	1:30:00 PM	0.94351	0.94355			N/A
5/2/2019	AUDCAD.fx	3:30:00 PM	0.94339	0.94327			N/A
5/2/2019	AUDCHF	9:30:00 AM	0.71453	0.71508			N/A
5/2/2019	AUDCHF	11:30:00 AM	0.71529	0.71594			N/A
5/2/2019	AUDCHF	1:30:00 PM	0.71536	0.71604			N/A
5/2/2019	AUDCHF	3:30:00 PM	0.71438	0.71494			N/A
5/2/2019	AUDCHF.fx	9:30:00 AM	0.71487	0.71474			N/A
5/2/2019	AUDCHF.fx	11:30:00 AM	0.71563	0.71559			N/A
5/2/2019	AUDCHF.fx	1:30:00 PM	0.71571	0.71568			N/A
5/2/2019	AUDCHF.fx	3:30:00 PM	0.71472	0.71459			N/A
5/2/2019	AUDCZK	9:30:00 AM	16.042	16.057			N/A
5/2/2019	AUDCZK	11:30:00 AM	16.044	16.06			N/A
5/2/2019	AUDCZK	1:30:00 PM	16.046	16.062			N/A
5/2/2019	AUDCZK	3:30:00 PM	16.056	16.061			N/A
5/2/2019	AUDDKK	9:30:00 AM	4.6783	4.6823			N/A
5/2/2019	AUDDKK	11:30:00 AM	4.6757	4.6798			N/A
5/2/2019	AUDDKK	1:30:00 PM	4.677	4.6815			N/A
5/2/2019	AUDDKK	3:30:00 PM	4.6724	4.6763			N/A

5/2/2019	AUDHKD	9:30:00 AM	5.5052	5.5091			N/A
5/2/2019	AUDHKD	11:30:00 AM	5.5087	5.512			N/A
5/2/2019	AUDHKD	1:30:00 PM	5.5029	5.5068			N/A
5/2/2019	AUDHKD	3:30:00 PM	5.4983	5.5022			N/A
5/2/2019	AUDHUF	9:30:00 AM	203.25	203.42			N/A
5/2/2019	AUDHUF	11:30:00 AM	203.05	203.2			N/A
5/2/2019	AUDHUF	1:30:00 PM	202.99	203.22			N/A
5/2/2019	AUDHUF	3:30:00 PM	202.55	202.73			N/A
5/2/2019	AUDJPY	9:30:00 AM	78.293	78.347			N/A
5/2/2019	AUDJPY	11:30:00 AM	78.329	78.397			N/A
5/2/2019	AUDJPY	1:30:00 PM	78.26	78.328			N/A
5/2/2019	AUDJPY	3:30:00 PM	78.179	78.235			N/A
5/2/2019	AUDJPY.fx	9:30:00 AM	78.326	78.312			N/A
5/2/2019	AUDJPY.fx	11:30:00 AM	78.363	78.363			N/A
5/2/2019	AUDJPY.fx	1:30:00 PM	78.294	78.293			N/A
5/2/2019	AUDJPY.fx	3:30:00 PM	78.212	78.2			N/A
5/2/2019	AUDMXN	9:30:00 AM	13.324	13.3326			N/A
5/2/2019	AUDMXN	11:30:00 AM	13.3054	13.3136			N/A
5/2/2019	AUDMXN	1:30:00 PM	13.3143	13.324			N/A
5/2/2019	AUDMXN	3:30:00 PM	13.3036	13.31			N/A
5/2/2019	AUDNOK	9:30:00 AM	6.0914	6.0941			N/A
5/2/2019	AUDNOK	11:30:00 AM	6.1007	6.1048			N/A
5/2/2019	AUDNOK	1:30:00 PM	6.1014	6.1064			N/A
5/2/2019	AUDNOK	3:30:00 PM	6.1155	6.1141			N/A
5/2/2019	AUDNOK.fx	9:30:00 AM	6.0928	6.0929			N/A
5/2/2019	AUDNOK.fx	11:30:00 AM	6.1022	6.103			N/A
5/2/2019	AUDNOK.fx	1:30:00 PM	6.1029	6.1047			N/A
5/2/2019	AUDNOK.fx	3:30:00 PM	6.1159	6.1124			N/A
5/2/2019	AUDNZD	9:30:00 AM	1.05888	1.05977			N/A
5/2/2019	AUDNZD	11:30:00 AM	1.05853	1.05939			N/A
5/2/2019	AUDNZD	1:30:00 PM	1.05857	1.05946			N/A
5/2/2019	AUDNZD	3:30:00 PM	1.05859	1.05944			N/A
5/2/2019	AUDNZD.fx	9:30:00 AM	1.05931	1.0593			N/A
5/2/2019	AUDNZD.fx	11:30:00 AM	1.05898	1.05893			N/A

5/2/2019	AUDNZD.fx	1:30:00 PM	1.05902	1.05901			N/A
5/2/2019	AUDNZD.fx	3:30:00 PM	1.05903	1.059			N/A
5/2/2019	AUDPLN	9:30:00 AM	2.6852	2.6882			N/A
5/2/2019	AUDPLN	11:30:00 AM	2.6801	2.6829			N/A
5/2/2019	AUDPLN	1:30:00 PM	2.681	2.6841			N/A
5/2/2019	AUDPLN	3:30:00 PM	2.6781	2.6811			N/A
5/2/2019	AUDSEK	9:30:00 AM	6.7039	6.6939			N/A
5/2/2019	AUDSEK	11:30:00 AM	6.6962	6.6955			N/A
5/2/2019	AUDSEK	1:30:00 PM	6.6934	6.6958			N/A
5/2/2019	AUDSEK	3:30:00 PM	6.6981	6.6974			N/A
5/2/2019	AUDSEK.fx	9:30:00 AM	6.6987	6.7008			N/A
5/2/2019	AUDSEK.fx	11:30:00 AM	6.6918	6.7			N/A
5/2/2019	AUDSEK.fx	1:30:00 PM	6.6893	6.7004			N/A
5/2/2019	AUDSEK.fx	3:30:00 PM	6.6925	6.7017			N/A
5/2/2019	AUDSGD	9:30:00 AM	0.9558	0.9559			N/A
5/2/2019	AUDSGD	11:30:00 AM	0.9559	0.9561			N/A
5/2/2019	AUDSGD	1:30:00 PM	0.9556	0.9559			N/A
5/2/2019	AUDSGD	3:30:00 PM	0.9551	0.9551			N/A
5/2/2019	AUDSGD.fx	9:30:00 AM	0.95585	0.95582			N/A
5/2/2019	AUDSGD.fx	11:30:00 AM	0.956	0.95606			N/A
5/2/2019	AUDSGD.fx	1:30:00 PM	0.95566	0.95578			N/A
5/2/2019	AUDSGD.fx	3:30:00 PM	0.95517	0.95507			N/A
5/2/2019	AUDUSD	9:30:00 AM	0.70214	0.70211			N/A
5/2/2019	AUDUSD	11:30:00 AM	0.70264	0.70274			N/A
5/2/2019	AUDUSD	1:30:00 PM	0.70188	0.70201			N/A
5/2/2019	AUDUSD	3:30:00 PM	0.70142	0.70136			N/A
5/2/2019	AUDUSD.fx	9:30:00 AM	0.70219	0.70206			N/A
5/2/2019	AUDUSD.fx	11:30:00 AM	0.70269	0.70268			N/A
5/2/2019	AUDUSD.fx	1:30:00 PM	0.70193	0.70195			N/A
5/2/2019	AUDUSD.fx	3:30:00 PM	0.70148	0.7013			N/A
5/2/2019	AUDZAR	9:30:00 AM	10.1362	10.1447			N/A
5/2/2019	AUDZAR	11:30:00 AM	10.1256	10.1371			N/A
5/2/2019	AUDZAR	1:30:00 PM	10.1338	10.1484			N/A
5/2/2019	AUDZAR	3:30:00 PM	10.1406	10.1544			N/A

5/2/2019	AUS200.i	9:30:00 AM					N/A
5/2/2019	AUS200.i	11:30:00 AM	6353.86	6357.36			N/A
5/2/2019	AUS200.i	1:30:00 PM	6355.86	6359.36			N/A
5/2/2019	AUS200.i	3:30:00 PM	6353.86	6356.36			N/A
5/2/2019	BCHUSD	9:30:00 AM	276.83	278.7			N/A
5/2/2019	BCHUSD	11:30:00 AM					N/A
5/2/2019	BCHUSD	1:30:00 PM					N/A
5/2/2019	BCHUSD	3:30:00 PM					N/A
5/2/2019	CADCHF	9:30:00 AM	0.75765	0.75814			N/A
5/2/2019	CADCHF	11:30:00 AM	0.75727	0.75791			N/A
5/2/2019	CADCHF	1:30:00 PM	0.75815	0.75886			N/A
5/2/2019	CADCHF	3:30:00 PM	0.75737	0.75773			N/A
5/2/2019	CADCHF.fx	9:30:00 AM	0.75801	0.7578			N/A
5/2/2019	CADCHF.fx	11:30:00 AM	0.75761	0.75755			N/A
5/2/2019	CADCHF.fx	1:30:00 PM	0.75849	0.75851			N/A
5/2/2019	CADCHF.fx	3:30:00 PM	0.75772	0.7574			N/A
5/2/2019	CADCZK	9:30:00 AM	17.011	17.026			N/A
5/2/2019	CADCZK	11:30:00 AM	16.987	17.003			N/A
5/2/2019	CADCZK	1:30:00 PM	17.008	17.025			N/A
5/2/2019	CADCZK	3:30:00 PM	17.026	17.025			N/A
5/2/2019	CADDKK	9:30:00 AM	4.961	4.965			N/A
5/2/2019	CADDKK	11:30:00 AM	4.95	4.954			N/A
5/2/2019	CADDKK	1:30:00 PM	4.957	4.961			N/A
5/2/2019	CADDKK	3:30:00 PM	4.952	4.956			N/A
5/2/2019	CADHKD	9:30:00 AM	5.8382	5.8413			N/A
5/2/2019	CADHKD	11:30:00 AM	5.8322	5.836			N/A
5/2/2019	CADHKD	1:30:00 PM	5.8328	5.8366			N/A
5/2/2019	CADHKD	3:30:00 PM	5.8302	5.8329			N/A
5/2/2019	CADHUF	9:30:00 AM	215.59	215.67			N/A
5/2/2019	CADHUF	11:30:00 AM	215.02	215.12			N/A
5/2/2019	CADHUF	1:30:00 PM					N/A
5/2/2019	CADHUF	3:30:00 PM	214.82	214.87			N/A
5/2/2019	CADJPY	9:30:00 AM	83.021	83.068			N/A
5/2/2019	CADJPY	11:30:00 AM	82.925	82.996			N/A

5/2/2019	CADJPY	1:30:00 PM	82.942	83.014			N/A
5/2/2019	CADJPY	3:30:00 PM	82.885	82.927			N/A
5/2/2019	CADJPY.fx	9:30:00 AM	83.055	83.034			N/A
5/2/2019	CADJPY.fx	11:30:00 AM	82.959	82.96			N/A
5/2/2019	CADJPY.fx	1:30:00 PM	82.975	82.979			N/A
5/2/2019	CADJPY.fx	3:30:00 PM	82.918	82.894			N/A
5/2/2019	CADMXN	9:30:00 AM	14.1284	14.1398			N/A
5/2/2019	CADMXN	11:30:00 AM	14.0866	14.0975			N/A
5/2/2019	CADMXN	1:30:00 PM	14.1114	14.1235			N/A
5/2/2019	CADMXN	3:30:00 PM	14.1065	14.1118			N/A
5/2/2019	CADNOK	9:30:00 AM	6.4572	6.4574			N/A
5/2/2019	CADNOK	11:30:00 AM	6.4565	6.4593			N/A
5/2/2019	CADNOK	1:30:00 PM	6.4653	6.4697			N/A
5/2/2019	CADNOK	3:30:00 PM	6.4783	6.4778			N/A
5/2/2019	CADPLN	9:30:00 AM	2.8476	2.8495			N/A
5/2/2019	CADPLN	11:30:00 AM	2.8373	2.8393			N/A
5/2/2019	CADPLN	1:30:00 PM	2.8415	2.8434			N/A
5/2/2019	CADPLN	3:30:00 PM	2.8388	2.8392			N/A
5/2/2019	CADSEK	9:30:00 AM	7.105	7.0973			N/A
5/2/2019	CADSEK	11:30:00 AM	7.0861	7.0867			N/A
5/2/2019	CADSEK	1:30:00 PM	7.0923	7.0945			N/A
5/2/2019	CADSEK	3:30:00 PM	7.0971	7.0978			N/A
5/2/2019	CADSGD	9:30:00 AM	1.0127	1.013			N/A
5/2/2019	CADSGD	11:30:00 AM	1.0114	1.0117			N/A
5/2/2019	CADSGD	1:30:00 PM	1.0121	1.0124			N/A
5/2/2019	CADSGD	3:30:00 PM					N/A
5/2/2019	CADZAR	9:30:00 AM	10.7482	10.7581			N/A
5/2/2019	CADZAR	11:30:00 AM	10.7212	10.734			N/A
5/2/2019	CADZAR	1:30:00 PM	10.7407	10.7569			N/A
5/2/2019	CADZAR	3:30:00 PM	10.7528	10.7659			N/A
5/2/2019	CHFCZK	9:30:00 AM	22.45	22.466			N/A
5/2/2019	CHFCZK	11:30:00 AM	22.429	22.443			N/A
5/2/2019	CHFCZK	1:30:00 PM	22.429	22.445			N/A
5/2/2019	CHFCZK	3:30:00 PM	22.476	22.479			N/A

5/2/2019	CHFDKK	9:30:00 AM	6.546	6.55			N/A
5/2/2019	CHFDKK	11:30:00 AM	6.535	6.538			N/A
5/2/2019	CHFDKK	1:30:00 PM	6.536	6.54			N/A
5/2/2019	CHFDKK	3:30:00 PM	6.539	6.542			N/A
5/2/2019	CHFDKK.fx	9:30:00 AM	6.5447	6.5502			N/A
5/2/2019	CHFDKK.fx	11:30:00 AM	6.5339	6.5392			N/A
5/2/2019	CHFDKK.fx	1:30:00 PM	6.5347	6.5408			N/A
5/2/2019	CHFDKK.fx	3:30:00 PM	6.5373	6.5431			N/A
5/2/2019	CHFHKD	9:30:00 AM	7.7033	7.707			N/A
5/2/2019	CHFHKD	11:30:00 AM	7.701	7.7031			N/A
5/2/2019	CHFHKD	1:30:00 PM	7.6916	7.6953			N/A
5/2/2019	CHFHKD	3:30:00 PM	7.6972	7.6993			N/A
5/2/2019	CHFHUF	9:30:00 AM	284.42	284.65			N/A
5/2/2019	CHFHUF	11:30:00 AM	283.8	284.03			N/A
5/2/2019	CHFHUF	1:30:00 PM	283.67	284.05			N/A
5/2/2019	CHFHUF	3:30:00 PM	283.45	283.81			N/A
5/2/2019	CHFJPY	9:30:00 AM	109.555	109.62			N/A
5/2/2019	CHFJPY	11:30:00 AM	109.492	109.55			N/A
5/2/2019	CHFJPY	1:30:00 PM	109.38	109.446			N/A
5/2/2019	CHFJPY	3:30:00 PM	109.427	109.482			N/A
5/2/2019	CHFJPY.fx	9:30:00 AM	109.588	109.587			N/A
5/2/2019	CHFJPY.fx	11:30:00 AM	109.524	109.515			N/A
5/2/2019	CHFJPY.fx	1:30:00 PM	109.413	109.412			N/A
5/2/2019	CHFJPY.fx	3:30:00 PM	109.459	109.448			N/A
5/2/2019	CHFMXN	9:30:00 AM	18.6446	18.655			N/A
5/2/2019	CHFMXN	11:30:00 AM	18.5976	18.6093			N/A
5/2/2019	CHFMXN	1:30:00 PM	18.6064	18.6236			N/A
5/2/2019	CHFMXN	3:30:00 PM	18.618	18.6299			N/A
5/2/2019	CHFNOK	9:30:00 AM	8.5221	8.5244			N/A
5/2/2019	CHFNOK	11:30:00 AM	8.5241	8.5311			N/A
5/2/2019	CHFNOK	1:30:00 PM	8.5245	8.5324			N/A
5/2/2019	CHFNOK	3:30:00 PM	8.5579	8.5541			N/A
5/2/2019	CHFNOK.fx	9:30:00 AM	8.52533	8.52173			N/A
5/2/2019	CHFNOK.fx	11:30:00 AM	8.52763	8.52764			N/A

5/2/2019	CHFNOK.fx	1:30:00 PM	8.52797	8.52882			N/A
5/2/2019	CHFNOK.fx	3:30:00 PM	8.55938	8.55048			N/A
5/2/2019	CHFPLN	9:30:00 AM	3.7575	3.7603			N/A
5/2/2019	CHFPLN	11:30:00 AM	3.746	3.7487			N/A
5/2/2019	CHFPLN	1:30:00 PM	3.7468	3.75			N/A
5/2/2019	CHFPLN	3:30:00 PM	3.7486	3.7511			N/A
5/2/2019	CHFPLN.fx	9:30:00 AM	3.75504	3.76263			N/A
5/2/2019	CHFPLN.fx	11:30:00 AM	3.74366	3.75103			N/A
5/2/2019	CHFPLN.fx	1:30:00 PM	3.74446	3.75223			N/A
5/2/2019	CHFPLN.fx	3:30:00 PM	3.74574	3.75341			N/A
5/2/2019	CHFSEK	9:30:00 AM	9.3738	9.3636			N/A
5/2/2019	CHFSEK	11:30:00 AM	9.3545	9.3543			N/A
5/2/2019	CHFSEK	1:30:00 PM	9.3517	9.3545			N/A
5/2/2019	CHFSEK	3:30:00 PM	9.3707	9.3681			N/A
5/2/2019	CHFSGD	9:30:00 AM	1.337	1.3374			N/A
5/2/2019	CHFSGD	11:30:00 AM	1.3359	1.3362			N/A
5/2/2019	CHFSGD	1:30:00 PM	1.3352	1.3356			N/A
5/2/2019	CHFSGD	3:30:00 PM	1.3363	1.3365			N/A
5/2/2019	CHFSGD.fx	9:30:00 AM	1.33715	1.33721			N/A
5/2/2019	CHFSGD.fx	11:30:00 AM	1.33605	1.33597			N/A
5/2/2019	CHFSGD.fx	1:30:00 PM	1.33535	1.33544			N/A
5/2/2019	CHFSGD.fx	3:30:00 PM	1.33648	1.3363			N/A
5/2/2019	CHFZAR	9:30:00 AM	14.1877	14.1902			N/A
5/2/2019	CHFZAR	11:30:00 AM	14.1582	14.1655			N/A
5/2/2019	CHFZAR	1:30:00 PM	14.1656	14.1798			N/A
5/2/2019	CHFZAR	3:30:00 PM	14.1966	14.2094			N/A
5/2/2019	CZKJPY	9:30:00 AM					N/A
5/2/2019	CZKJPY	11:30:00 AM	4.881	4.884			N/A
5/2/2019	CZKJPY	1:30:00 PM					N/A
5/2/2019	CZKJPY	3:30:00 PM	4.869	4.871			N/A
5/2/2019	DAX30.i	9:30:00 AM	12357.16	12352.66			N/A
5/2/2019	DAX30.i	11:30:00 AM	12361.26	12355.66			N/A
5/2/2019	DAX30.i	1:30:00 PM	12377.91	12376.66			N/A
5/2/2019	DAX30.i	3:30:00 PM	12364.66	12361.41			N/A

5/2/2019	DJ30.i	9:30:00 AM					N/A
5/2/2019	DJ30.i	11:30:00 AM					N/A
5/2/2019	DJ30.i	1:30:00 PM					N/A
5/2/2019	DJ30.i	3:30:00 PM					N/A
5/2/2019	DKKJPY	9:30:00 AM	16.73	16.75			N/A
5/2/2019	DKKJPY	11:30:00 AM	16.75	16.77			N/A
5/2/2019	DKKJPY	1:30:00 PM	16.74	16.75			N/A
5/2/2019	DKKJPY	3:30:00 PM					N/A
5/2/2019	EURAUD	9:30:00 AM	1.59434	1.59459			N/A
5/2/2019	EURAUD	11:30:00 AM	1.5952	1.5954			N/A
5/2/2019	EURAUD	1:30:00 PM	1.59467	1.59505			N/A
5/2/2019	EURAUD	3:30:00 PM	1.59651	1.59664			N/A
5/2/2019	EURAUD.fx	9:30:00 AM	1.59454	1.59437			N/A
5/2/2019	EURAUD.fx	11:30:00 AM	1.59541	1.59519			N/A
5/2/2019	EURAUD.fx	1:30:00 PM	1.59489	1.59482			N/A
5/2/2019	EURAUD.fx	3:30:00 PM	1.5967	1.59643			N/A
5/2/2019	EURCAD	9:30:00 AM	1.50405	1.50465			N/A
5/2/2019	EURCAD	11:30:00 AM	1.50712	1.50781			N/A
5/2/2019	EURCAD	1:30:00 PM	1.50506	1.50584			N/A
5/2/2019	EURCAD	3:30:00 PM	1.50666	1.50684			N/A
5/2/2019	EURCAD.fx	9:30:00 AM	1.50448	1.50422			N/A
5/2/2019	EURCAD.fx	11:30:00 AM	1.50755	1.50739			N/A
5/2/2019	EURCAD.fx	1:30:00 PM	1.50548	1.50541			N/A
5/2/2019	EURCAD.fx	3:30:00 PM	1.50702	1.5064			N/A
5/2/2019	EURCHF	9:30:00 AM	1.14018	1.14016			N/A
5/2/2019	EURCHF	11:30:00 AM	1.14208	1.14206			N/A
5/2/2019	EURCHF	1:30:00 PM	1.14183	1.14195			N/A
5/2/2019	EURCHF	3:30:00 PM	1.14142	1.14146			N/A
5/2/2019	EURCHF.fx	9:30:00 AM	1.14023	1.1401			N/A
5/2/2019	EURCHF.fx	11:30:00 AM	1.14213	1.142			N/A
5/2/2019	EURCHF.fx	1:30:00 PM	1.14189	1.14189			N/A
5/2/2019	EURCHF.fx	3:30:00 PM	1.14147	1.14141			N/A
5/2/2019	EURCZK	9:30:00 AM	25.582	25.621			N/A
5/2/2019	EURCZK	11:30:00 AM	25.601	25.639			N/A

5/2/2019	EURCZK	1:30:00 PM	25.597	25.636			N/A
5/2/2019	EURCZK	3:30:00 PM	25.642	25.664			N/A
5/2/2019	EURDKK	9:30:00 AM	7.4648	7.466			N/A
5/2/2019	EURDKK	11:30:00 AM	7.464	7.4651			N/A
5/2/2019	EURDKK	1:30:00 PM	7.4647	7.4656			N/A
5/2/2019	EURDKK	3:30:00 PM	7.4613	7.4626			N/A
5/2/2019	EURGBP	9:30:00 AM	0.85828	0.85824			N/A
5/2/2019	EURGBP	11:30:00 AM	0.85824	0.85818			N/A
5/2/2019	EURGBP	1:30:00 PM	0.85829	0.85829			N/A
5/2/2019	EURGBP	3:30:00 PM	0.85893	0.85899			N/A
5/2/2019	EURGBP.fx	9:30:00 AM	0.85831	0.85819			N/A
5/2/2019	EURGBP.fx	11:30:00 AM	0.85827	0.85812			N/A
5/2/2019	EURGBP.fx	1:30:00 PM	0.85831	0.85825			N/A
5/2/2019	EURGBP.fx	3:30:00 PM	0.85895	0.85895			N/A
5/2/2019	EURHKD	9:30:00 AM	8.784	8.7882			N/A
5/2/2019	EURHKD	11:30:00 AM	8.795	8.7993			N/A
5/2/2019	EURHKD	1:30:00 PM	8.783	8.7877			N/A
5/2/2019	EURHKD	3:30:00 PM	8.7872	8.7891			N/A
5/2/2019	EURHKD.fx	9:30:00 AM	8.78681	8.78535			N/A
5/2/2019	EURHKD.fx	11:30:00 AM	8.7979	8.79646			N/A
5/2/2019	EURHKD.fx	1:30:00 PM	8.78584	8.78487			N/A
5/2/2019	EURHKD.fx	3:30:00 PM	8.78987	8.78639			N/A
5/2/2019	EURHUF	9:30:00 AM	324.24	324.97			N/A
5/2/2019	EURHUF	11:30:00 AM	324.04	324.65			N/A
5/2/2019	EURHUF	1:30:00 PM	323.87	324.47			N/A
5/2/2019	EURHUF	3:30:00 PM	323.63	324.34			N/A
5/2/2019	EURHUF.fx	9:30:00 AM	324.521	324.678			N/A
5/2/2019	EURHUF.fx	11:30:00 AM	324.331	324.48			N/A
5/2/2019	EURHUF.fx	1:30:00 PM	324.151	324.32			N/A
5/2/2019	EURHUF.fx	3:30:00 PM	323.906	324.075			N/A
5/2/2019	EURJPY	9:30:00 AM	124.95	124.942			N/A
5/2/2019	EURJPY	11:30:00 AM	125.071	125.071			N/A
5/2/2019	EURJPY	1:30:00 PM	124.939	124.934			N/A
5/2/2019	EURJPY	3:30:00 PM	124.932	124.924			N/A

5/2/2019	EURJPY.fx	9:30:00 AM	124.951	124.94			N/A
5/2/2019	EURJPY.fx	11:30:00 AM	125.073	125.067			N/A
5/2/2019	EURJPY.fx	1:30:00 PM	124.941	124.93			N/A
5/2/2019	EURJPY.fx	3:30:00 PM	124.935	124.921			N/A
5/2/2019	EURMXN	9:30:00 AM	21.2584	21.2756			N/A
5/2/2019	EURMXN	11:30:00 AM	21.2409	21.2585			N/A
5/2/2019	EURMXN	1:30:00 PM	21.2489	21.2681			N/A
5/2/2019	EURMXN	3:30:00 PM	21.2573	21.2693			N/A
5/2/2019	EURMXN.fx	9:30:00 AM	21.267	21.2663			N/A
5/2/2019	EURMXN.fx	11:30:00 AM	21.2499	21.249			N/A
5/2/2019	EURMXN.fx	1:30:00 PM	21.2575	21.2595			N/A
5/2/2019	EURMXN.fx	3:30:00 PM	21.2668	21.2599			N/A
5/2/2019	EURNOK	9:30:00 AM	9.7146	9.7212			N/A
5/2/2019	EURNOK	11:30:00 AM	9.7328	9.7453			N/A
5/2/2019	EURNOK	1:30:00 PM	9.7323	9.7444			N/A
5/2/2019	EURNOK	3:30:00 PM	9.7668	9.7656			N/A
5/2/2019	EURNOK.fx	9:30:00 AM	9.71959	9.71655			N/A
5/2/2019	EURNOK.fx	11:30:00 AM	9.7384	9.73994			N/A
5/2/2019	EURNOK.fx	1:30:00 PM	9.73761	9.73909			N/A
5/2/2019	EURNOK.fx	3:30:00 PM	9.77111	9.76025			N/A
5/2/2019	EURNZD	9:30:00 AM	1.68936	1.68993			N/A
5/2/2019	EURNZD	11:30:00 AM	1.68969	1.69037			N/A
5/2/2019	EURNZD	1:30:00 PM	1.68931	1.69003			N/A
5/2/2019	EURNZD	3:30:00 PM	1.69113	1.69164			N/A
5/2/2019	EURNZD.fx	9:30:00 AM	1.68976	1.68951			N/A
5/2/2019	EURNZD.fx	11:30:00 AM	1.69013	1.68994			N/A
5/2/2019	EURNZD.fx	1:30:00 PM	1.68974	1.68959			N/A
5/2/2019	EURNZD.fx	3:30:00 PM	1.69151	1.69121			N/A
5/2/2019	EURPLN	9:30:00 AM	4.284	4.2873			N/A
5/2/2019	EURPLN	11:30:00 AM	4.278	4.2813			N/A
5/2/2019	EURPLN	1:30:00 PM	4.2784	4.2818			N/A
5/2/2019	EURPLN	3:30:00 PM	4.2781	4.2815			N/A
5/2/2019	EURPLN.fx	9:30:00 AM	4.2833	4.28807			N/A
5/2/2019	EURPLN.fx	11:30:00 AM	4.27737	4.28184			N/A

5/2/2019	EURPLN.fx	1:30:00 PM	4.27779	4.28242			N/A
5/2/2019	EURPLN.fx	3:30:00 PM	4.27761	4.28212			N/A
5/2/2019	EURRUB	9:30:00 AM					N/A
5/2/2019	EURRUB	11:30:00 AM	72.715	73.156			N/A
5/2/2019	EURRUB	1:30:00 PM	72.763	73.198			N/A
5/2/2019	EURRUB	3:30:00 PM	72.936	73.355			N/A
5/2/2019	EURSEK	9:30:00 AM	10.6934	10.675			N/A
5/2/2019	EURSEK	11:30:00 AM	10.6856	10.6858			N/A
5/2/2019	EURSEK	1:30:00 PM	10.6797	10.6834			N/A
5/2/2019	EURSEK	3:30:00 PM	10.6996	10.6945			N/A
5/2/2019	EURSEK.fx	9:30:00 AM	10.69389	10.67704			N/A
5/2/2019	EURSEK.fx	11:30:00 AM	10.68719	10.68412			N/A
5/2/2019	EURSEK.fx	1:30:00 PM	10.68157	10.68166			N/A
5/2/2019	EURSEK.fx	3:30:00 PM	10.69972	10.69294			N/A
5/2/2019	EURSGD	9:30:00 AM	1.5243	1.525			N/A
5/2/2019	EURSGD	11:30:00 AM	1.5254	1.5262			N/A
5/2/2019	EURSGD	1:30:00 PM	1.5245	1.5253			N/A
5/2/2019	EURSGD	3:30:00 PM	1.5252	1.5257			N/A
5/2/2019	EURSGD.fx	9:30:00 AM	1.5247	1.52464			N/A
5/2/2019	EURSGD.fx	11:30:00 AM	1.52578	1.52575			N/A
5/2/2019	EURSGD.fx	1:30:00 PM	1.5249	1.52487			N/A
5/2/2019	EURSGD.fx	3:30:00 PM	1.5256	1.52528			N/A
5/2/2019	EURUSD	9:30:00 AM	1.11981	1.11979			N/A
5/2/2019	EURUSD	11:30:00 AM	1.12128	1.12129			N/A
5/2/2019	EURUSD	1:30:00 PM	1.1198	1.11984			N/A
5/2/2019	EURUSD	3:30:00 PM	1.12029	1.11994			N/A
5/2/2019	EURUSD.fx	9:30:00 AM	1.12001	1.11988			N/A
5/2/2019	EURUSD.fx	11:30:00 AM	1.12148	1.12139			N/A
5/2/2019	EURUSD.fx	1:30:00 PM	1.12001	1.11993			N/A
5/2/2019	EURUSD.fx	3:30:00 PM	1.1205	1.12003			N/A
5/2/2019	EURZAR	9:30:00 AM	16.1773	16.19			N/A
5/2/2019	EURZAR	11:30:00 AM	16.1701	16.1897			N/A
5/2/2019	EURZAR	1:30:00 PM	16.1777	16.196			N/A
5/2/2019	EURZAR	3:30:00 PM	16.2131	16.2292			N/A

5/2/2019	EURZAR.fx	9:30:00 AM	16.17626	16.19078			N/A
5/2/2019	EURZAR.fx	11:30:00 AM	16.17041	16.18948			N/A
5/2/2019	EURZAR.fx	1:30:00 PM	16.1774	16.19567			N/A
5/2/2019	EURZAR.fx	3:30:00 PM	16.21284	16.22954			N/A
5/2/2019	GBPAUD	9:30:00 AM	1.85845	1.85867			N/A
5/2/2019	GBPAUD	11:30:00 AM	1.85957	1.85996			N/A
5/2/2019	GBPAUD	1:30:00 PM	1.85885	1.85926			N/A
5/2/2019	GBPAUD	3:30:00 PM	1.85931	1.85979			N/A
5/2/2019	GBPAUD.fx	9:30:00 AM	1.85885	1.85828			N/A
5/2/2019	GBPAUD.fx	11:30:00 AM	1.85992	1.85954			N/A
5/2/2019	GBPAUD.fx	1:30:00 PM	1.85923	1.85886			N/A
5/2/2019	GBPAUD.fx	3:30:00 PM	1.85968	1.85943			N/A
5/2/2019	GBPCAD	9:30:00 AM	1.75277	1.75297			N/A
5/2/2019	GBPCAD	11:30:00 AM	1.75647	1.75691			N/A
5/2/2019	GBPCAD	1:30:00 PM	1.75393	1.75441			N/A
5/2/2019	GBPCAD	3:30:00 PM	1.7541	1.75435			N/A
5/2/2019	GBPCAD.fx	9:30:00 AM	1.75315	1.75256			N/A
5/2/2019	GBPCAD.fx	11:30:00 AM	1.75684	1.75653			N/A
5/2/2019	GBPCAD.fx	1:30:00 PM	1.75431	1.75402			N/A
5/2/2019	GBPCAD.fx	3:30:00 PM	1.75441	1.75397			N/A
5/2/2019	GBPCHF	9:30:00 AM	1.32837	1.32864			N/A
5/2/2019	GBPCHF	11:30:00 AM	1.33072	1.33077			N/A
5/2/2019	GBPCHF	1:30:00 PM	1.33027	1.3306			N/A
5/2/2019	GBPCHF	3:30:00 PM	1.32872	1.32902			N/A
5/2/2019	GBPCHF.fx	9:30:00 AM	1.32855	1.32845			N/A
5/2/2019	GBPCHF.fx	11:30:00 AM	1.33087	1.33058			N/A
5/2/2019	GBPCHF.fx	1:30:00 PM	1.33048	1.33039			N/A
5/2/2019	GBPCHF.fx	3:30:00 PM	1.32889	1.32886			N/A
5/2/2019	GBPCZK	9:30:00 AM	29.824	29.841			N/A
5/2/2019	GBPCZK	11:30:00 AM	29.843	29.862			N/A
5/2/2019	GBPCZK	1:30:00 PM	29.84	29.858			N/A
5/2/2019	GBPCZK	3:30:00 PM	29.865	29.863			N/A
5/2/2019	GBPDKK	9:30:00 AM	8.694	8.704			N/A
5/2/2019	GBPDKK	11:30:00 AM	8.695	8.704			N/A

5/2/2019	GBPDKK	1:30:00 PM	8.693	8.704			N/A
5/2/2019	GBPDKK	3:30:00 PM	8.687	8.697			N/A
5/2/2019	GBPDKK.fx	9:30:00 AM	8.6926	8.704			N/A
5/2/2019	GBPDKK.fx	11:30:00 AM	8.693	8.7043			N/A
5/2/2019	GBPDKK.fx	1:30:00 PM	8.6919	8.704			N/A
5/2/2019	GBPDKK.fx	3:30:00 PM	8.6851	8.6974			N/A
5/2/2019	GBPHKD	9:30:00 AM	10.234	10.2379			N/A
5/2/2019	GBPHKD	11:30:00 AM	10.2463	10.2495			N/A
5/2/2019	GBPHKD	1:30:00 PM	10.2325	10.2369			N/A
5/2/2019	GBPHKD	3:30:00 PM	10.2273	10.2302			N/A
5/2/2019	GBPHUF	9:30:00 AM	377.83	378.08			N/A
5/2/2019	GBPHUF	11:30:00 AM	377.59	377.9			N/A
5/2/2019	GBPHUF	1:30:00 PM	377.41	377.83			N/A
5/2/2019	GBPHUF	3:30:00 PM	376.66	377.04			N/A
5/2/2019	GBPJPY	9:30:00 AM	145.575	145.585	75000	75000	N/A
5/2/2019	GBPJPY	11:30:00 AM	145.73	145.75			N/A
5/2/2019	GBPJPY	1:30:00 PM	145.541	145.57			N/A
5/2/2019	GBPJPY	3:30:00 PM	145.422	145.449			N/A
5/2/2019	GBPJPY.fx	9:30:00 AM	145.595	145.566			N/A
5/2/2019	GBPJPY.fx	11:30:00 AM	145.747	145.73			N/A
5/2/2019	GBPJPY.fx	1:30:00 PM	145.56	145.551			N/A
5/2/2019	GBPJPY.fx	3:30:00 PM	145.44	145.429			N/A
5/2/2019	GBPMXN	9:30:00 AM	24.7706	24.7754			N/A
5/2/2019	GBPMXN	11:30:00 AM	24.7464	24.7581			N/A
5/2/2019	GBPMXN	1:30:00 PM	24.7571	24.771			N/A
5/2/2019	GBPMXN	3:30:00 PM	24.7431	24.7502			N/A
5/2/2019	GBPNOK	9:30:00 AM	11.3219	11.3253			N/A
5/2/2019	GBPNOK	11:30:00 AM	11.3441	11.3528			N/A
5/2/2019	GBPNOK	1:30:00 PM	11.3418	11.352			N/A
5/2/2019	GBPNOK	3:30:00 PM	11.3719	11.3687			N/A
5/2/2019	GBPNOK.fx	9:30:00 AM	11.32627	11.32158			N/A
5/2/2019	GBPNOK.fx	11:30:00 AM	11.34867	11.34851			N/A
5/2/2019	GBPNOK.fx	1:30:00 PM	11.34653	11.34725			N/A
5/2/2019	GBPNOK.fx	3:30:00 PM	11.37429	11.36386			N/A

5/2/2019	GBPNZD	9:30:00 AM	1.96884	1.96883			N/A
5/2/2019	GBPNZD	11:30:00 AM	1.96911	1.9696			N/A
5/2/2019	GBPNZD	1:30:00 PM	1.96853	1.96903			N/A
5/2/2019	GBPNZD	3:30:00 PM	1.96894	1.9695			N/A
5/2/2019	GBPNZD.fx	9:30:00 AM	1.96919	1.96847			N/A
5/2/2019	GBPNZD.fx	11:30:00 AM	1.96943	1.96929			N/A
5/2/2019	GBPNZD.fx	1:30:00 PM	1.96887	1.9687			N/A
5/2/2019	GBPNZD.fx	3:30:00 PM	1.96928	1.96916			N/A
5/2/2019	GBPPLN	9:30:00 AM	4.9929	4.9939			N/A
5/2/2019	GBPPLN	11:30:00 AM	4.9862	4.9873			N/A
5/2/2019	GBPPLN	1:30:00 PM	4.9862	4.9874			N/A
5/2/2019	GBPPLN	3:30:00 PM	4.9822	4.9836			N/A
5/2/2019	GBPPLN.fx	9:30:00 AM	4.99079	4.99624			N/A
5/2/2019	GBPPLN.fx	11:30:00 AM	4.98404	4.98944			N/A
5/2/2019	GBPPLN.fx	1:30:00 PM	4.98396	4.98954			N/A
5/2/2019	GBPPLN.fx	3:30:00 PM	4.9796	4.98574			N/A
5/2/2019	GBPSEK	9:30:00 AM	12.4562	12.4395			N/A
5/2/2019	GBPSEK	11:30:00 AM	12.45	12.4522			N/A
5/2/2019	GBPSEK	1:30:00 PM	12.4409	12.4484			N/A
5/2/2019	GBPSEK	3:30:00 PM	12.454	12.453			N/A
5/2/2019	GBPSEK.fx	9:30:00 AM	12.44892	12.44852			N/A
5/2/2019	GBPSEK.fx	11:30:00 AM	12.44614	12.45656			N/A
5/2/2019	GBPSEK.fx	1:30:00 PM	12.43699	12.45229			N/A
5/2/2019	GBPSEK.fx	3:30:00 PM	12.44749	12.45665			N/A
5/2/2019	GBPSGD	9:30:00 AM	1.7765	1.7768			N/A
5/2/2019	GBPSGD	11:30:00 AM	1.7777	1.7783			N/A
5/2/2019	GBPSGD	1:30:00 PM	1.7766	1.7771			N/A
5/2/2019	GBPSGD	3:30:00 PM	1.7759	1.7762			N/A
5/2/2019	GBPSGD.fx	9:30:00 AM	1.77463	1.77865			N/A
5/2/2019	GBPSGD.fx	11:30:00 AM	1.77586	1.78016			N/A
5/2/2019	GBPSGD.fx	1:30:00 PM	1.77469	1.77891			N/A
5/2/2019	GBPSGD.fx	3:30:00 PM	1.77406	1.77805			N/A
5/2/2019	GBPUSD	9:30:00 AM	1.30521	1.30494			N/A
5/2/2019	GBPUSD	11:30:00 AM	1.30692	1.30679			N/A

5/2/2019	GBPUSD	1:30:00 PM	1.30505	1.30493			N/A
5/2/2019	GBPUSD	3:30:00 PM	1.30452	1.30413		2500	N/A
5/2/2019	GBPUSD.fx	9:30:00 AM	1.30526	1.30488			N/A
5/2/2019	GBPUSD.fx	11:30:00 AM	1.30696	1.30672			N/A
5/2/2019	GBPUSD.fx	1:30:00 PM	1.3051	1.30488			N/A
5/2/2019	GBPUSD.fx	3:30:00 PM	1.30456	1.30409			N/A
5/2/2019	GBPZAR	9:30:00 AM	18.8515	18.8691			N/A
5/2/2019	GBPZAR	11:30:00 AM	18.8429	18.8703			N/A
5/2/2019	GBPZAR	1:30:00 PM	18.8487	18.8761			N/A
5/2/2019	GBPZAR	3:30:00 PM	18.8764	18.9018			N/A
5/2/2019	GBPZAR.fx	9:30:00 AM	18.8585	18.8623			N/A
5/2/2019	GBPZAR.fx	11:30:00 AM	18.8481	18.8631			N/A
5/2/2019	GBPZAR.fx	1:30:00 PM	18.855	18.8695			N/A
5/2/2019	GBPZAR.fx	3:30:00 PM	18.8829	18.8949			N/A
5/2/2019	GOLD	9:30:00 AM	1271.83	1272.05			N/A
5/2/2019	GOLD	11:30:00 AM	1270.54	1270.6			N/A
5/2/2019	GOLD	1:30:00 PM	1270.95	1271.22			N/A
5/2/2019	GOLD	3:30:00 PM	1270.49	1269.09			N/A
5/2/2019	HKDJPY	9:30:00 AM	14.22	14.23			N/A
5/2/2019	HKDJPY	11:30:00 AM	14.22	14.23			N/A
5/2/2019	HKDJPY	1:30:00 PM	14.22	14.24			N/A
5/2/2019	HKDJPY	3:30:00 PM	14.22	14.22			N/A
5/2/2019	HKDJPY.fx	9:30:00 AM	14.214	14.222			N/A
5/2/2019	HKDJPY.fx	11:30:00 AM	14.211	14.218			N/A
5/2/2019	HKDJPY.fx	1:30:00 PM	14.214	14.222			N/A
5/2/2019	HKDJPY.fx	3:30:00 PM	14.211	14.215			N/A
5/2/2019	HUFJPY	9:30:00 AM	0.3852	0.3856			N/A
5/2/2019	HUFJPY	11:30:00 AM	0.3858	0.3861			N/A
5/2/2019	HUFJPY	1:30:00 PM	0.3855	0.3858			N/A
5/2/2019	HUFJPY	3:30:00 PM	0.3859	0.3862			N/A
5/2/2019	JP225.i	9:30:00 AM	22299.19	22313.36			N/A
5/2/2019	JP225.i	11:30:00 AM	22334.19	22344.19			N/A
5/2/2019	JP225.i	1:30:00 PM	22314.19	22329.19			N/A
5/2/2019	JP225.i	3:30:00 PM	22284.19	22296.69			N/A

5/2/2019	MXNJPY	9:30:00 AM	5.87	5.88			N/A
5/2/2019	MXNJPY	11:30:00 AM	5.89	5.89			N/A
5/2/2019	MXNJPY	1:30:00 PM	5.87	5.88			N/A
5/2/2019	MXNJPY	3:30:00 PM	5.87	5.88			N/A
5/2/2019	NASDAQ.i	9:30:00 AM					N/A
5/2/2019	NASDAQ.i	11:30:00 AM					N/A
5/2/2019	NASDAQ.i	1:30:00 PM					N/A
5/2/2019	NASDAQ.i	3:30:00 PM					N/A
5/2/2019	NOKJPY	9:30:00 AM	12.85	12.87			N/A
5/2/2019	NOKJPY	11:30:00 AM	12.83	12.86			N/A
5/2/2019	NOKJPY	1:30:00 PM	12.81	12.85			N/A
5/2/2019	NOKJPY	3:30:00 PM	12.78	12.8			N/A
5/2/2019	NOKJPY.fx	9:30:00 AM	12.855	12.856			N/A
5/2/2019	NOKJPY.fx	11:30:00 AM	12.838	12.844			N/A
5/2/2019	NOKJPY.fx	1:30:00 PM	12.825	12.832			N/A
5/2/2019	NOKJPY.fx	3:30:00 PM	12.795	12.788			N/A
5/2/2019	NZDCAD	9:30:00 AM	0.88997	0.89059			N/A
5/2/2019	NZDCAD	11:30:00 AM	0.89166	0.89234			N/A
5/2/2019	NZDCAD	1:30:00 PM	0.89064	0.89134			N/A
5/2/2019	NZDCAD	3:30:00 PM	0.89059	0.89103			N/A
5/2/2019	NZDCAD.fx	9:30:00 AM	0.8903	0.89025			N/A
5/2/2019	NZDCAD.fx	11:30:00 AM	0.89199	0.892			N/A
5/2/2019	NZDCAD.fx	1:30:00 PM	0.89098	0.891			N/A
5/2/2019	NZDCAD.fx	3:30:00 PM	0.89085	0.8907			N/A
5/2/2019	NZDCHF	9:30:00 AM	0.67454	0.67507			N/A
5/2/2019	NZDCHF	11:30:00 AM	0.67543	0.67606			N/A
5/2/2019	NZDCHF	1:30:00 PM	0.67545	0.67615			N/A
5/2/2019	NZDCHF	3:30:00 PM	0.67457	0.67516			N/A
5/2/2019	NZDCHF.fx	9:30:00 AM	0.67488	0.67472			N/A
5/2/2019	NZDCHF.fx	11:30:00 AM	0.67577	0.6757			N/A
5/2/2019	NZDCHF.fx	1:30:00 PM	0.67579	0.67579			N/A
5/2/2019	NZDCHF.fx	3:30:00 PM	0.6749	0.67483			N/A
5/2/2019	NZDCZK	9:30:00 AM	15.146	15.157			N/A
5/2/2019	NZDCZK	11:30:00 AM	15.152	15.164			N/A

5/2/2019	NZDCZK	1:30:00 PM	15.154	15.165			N/A
5/2/2019	NZDCZK	3:30:00 PM	15.164	15.165			N/A
5/2/2019	NZDDKK	9:30:00 AM	4.416	4.42			N/A
5/2/2019	NZDDKK	11:30:00 AM	4.415	4.419			N/A
5/2/2019	NZDDKK	1:30:00 PM	4.416	4.419			N/A
5/2/2019	NZDDKK	3:30:00 PM	4.41	4.414			N/A
5/2/2019	NZDHKD	9:30:00 AM	5.1973	5.1993			N/A
5/2/2019	NZDHKD	11:30:00 AM	5.2019	5.2048			N/A
5/2/2019	NZDHKD	1:30:00 PM	5.1962	5.199			N/A
5/2/2019	NZDHKD	3:30:00 PM	5.1924	5.1945			N/A
5/2/2019	NZDHUF	9:30:00 AM	191.84	192.06			N/A
5/2/2019	NZDHUF	11:30:00 AM	191.68	191.91			N/A
5/2/2019	NZDHUF	1:30:00 PM	191.64	191.93			N/A
5/2/2019	NZDHUF	3:30:00 PM	191.23	191.48			N/A
5/2/2019	NZDJPY	9:30:00 AM	73.908	73.964			N/A
5/2/2019	NZDJPY	11:30:00 AM	73.962	74.034			N/A
5/2/2019	NZDJPY	1:30:00 PM	73.894	73.968			N/A
5/2/2019	NZDJPY	3:30:00 PM	73.82	73.877			N/A
5/2/2019	NZDJPY.fx	9:30:00 AM	73.939	73.931			N/A
5/2/2019	NZDJPY.fx	11:30:00 AM	73.994	74.001			N/A
5/2/2019	NZDJPY.fx	1:30:00 PM	73.925	73.935			N/A
5/2/2019	NZDJPY.fx	3:30:00 PM	73.851	73.844			N/A
5/2/2019	NZDMXN	9:30:00 AM	12.5783	12.5834			N/A
5/2/2019	NZDMXN	11:30:00 AM	12.5643	12.5707			N/A
5/2/2019	NZDMXN	1:30:00 PM	12.5729	12.5792			N/A
5/2/2019	NZDMXN	3:30:00 PM	12.5634	12.566			N/A
5/2/2019	NZDNOK	9:30:00 AM	5.7476	5.7474			N/A
5/2/2019	NZDNOK	11:30:00 AM	5.7577	5.7606			N/A
5/2/2019	NZDNOK	1:30:00 PM	5.7595	5.7627			N/A
5/2/2019	NZDNOK	3:30:00 PM	5.7703	5.7683			N/A
5/2/2019	NZDPLN	9:30:00 AM	2.535	2.5363			N/A
5/2/2019	NZDPLN	11:30:00 AM	2.5304	2.5318			N/A
5/2/2019	NZDPLN	1:30:00 PM	2.5314	2.5325			N/A
5/2/2019	NZDPLN	3:30:00 PM	2.5281	2.5286			N/A

5/2/2019	NZDSEK	9:30:00 AM	6.322	6.3202			N/A
5/2/2019	NZDSEK	11:30:00 AM	6.3177	6.3225			N/A
5/2/2019	NZDSEK	1:30:00 PM	6.3161	6.3217			N/A
5/2/2019	NZDSEK	3:30:00 PM	6.3193	6.323			N/A
5/2/2019	NZDSGD	9:30:00 AM	0.9021	0.9026			N/A
5/2/2019	NZDSGD	11:30:00 AM	0.9025	0.9032			N/A
5/2/2019	NZDSGD	1:30:00 PM	0.9022	0.9028			N/A
5/2/2019	NZDSGD	3:30:00 PM	0.9017	0.9021			N/A
5/2/2019	NZDSGD.fx	9:30:00 AM	0.9021	0.90255			N/A
5/2/2019	NZDSGD.fx	11:30:00 AM	0.90249	0.90311			N/A
5/2/2019	NZDSGD.fx	1:30:00 PM	0.90215	0.90277			N/A
5/2/2019	NZDSGD.fx	3:30:00 PM	0.90172	0.90201			N/A
5/2/2019	NZDUSD	9:30:00 AM	0.66276	0.66277			N/A
5/2/2019	NZDUSD	11:30:00 AM	0.66343	0.6636			N/A
5/2/2019	NZDUSD	1:30:00 PM	0.6627	0.66287			N/A
5/2/2019	NZDUSD	3:30:00 PM	0.6623	0.66219			N/A
5/2/2019	NZDUSD.fx	9:30:00 AM	0.66283	0.66278			N/A
5/2/2019	NZDUSD.fx	11:30:00 AM	0.6635	0.66361			N/A
5/2/2019	NZDUSD.fx	1:30:00 PM	0.66277	0.66288			N/A
5/2/2019	NZDUSD.fx	3:30:00 PM	0.66238	0.66221			N/A
5/2/2019	NZDZAR	9:30:00 AM	9.566	9.5773			N/A
5/2/2019	NZDZAR	11:30:00 AM	9.5579	9.5743			N/A
5/2/2019	NZDZAR	1:30:00 PM	9.567	9.5828			N/A
5/2/2019	NZDZAR	3:30:00 PM	9.5737	9.5893			N/A
5/2/2019	SEKJPY	9:30:00 AM	11.7	11.69			N/A
5/2/2019	SEKJPY	11:30:00 AM	11.71	11.72			N/A
5/2/2019	SEKJPY	1:30:00 PM	11.7	11.71			N/A
5/2/2019	SEKJPY	3:30:00 PM	11.68	11.68			N/A
5/2/2019	SEKJPY.fx	9:30:00 AM	11.693	11.695			N/A
5/2/2019	SEKJPY.fx	11:30:00 AM	11.698	11.711			N/A
5/2/2019	SEKJPY.fx	1:30:00 PM	11.688	11.705			N/A
5/2/2019	SEKJPY.fx	3:30:00 PM	11.673	11.685			N/A
5/2/2019	SGDJPY	9:30:00 AM	81.93	81.94			N/A
5/2/2019	SGDJPY	11:30:00 AM	81.96	81.97			N/A

5/2/2019	SGDJPY	1:30:00 PM	81.9	81.92			N/A
5/2/2019	SGDJPY	3:30:00 PM	81.85	81.87			N/A
5/2/2019	SILVER	9:30:00 AM	14.45	14.84			N/A
5/2/2019	SILVER	11:30:00 AM	14.44	14.82			N/A
5/2/2019	SILVER	1:30:00 PM	14.48	14.86			N/A
5/2/2019	SILVER	3:30:00 PM	14.47	14.83			N/A
5/2/2019	SPX500.i	9:30:00 AM	2925.31	2926.36			N/A
5/2/2019	SPX500.i	11:30:00 AM	2927.81	2928.61			N/A
5/2/2019	SPX500.i	1:30:00 PM	2927.81	2929.03			N/A
5/2/2019	SPX500.i	3:30:00 PM	2925.81	2925.36			N/A
5/2/2019	UK100.i	9:30:00 AM	7366.3	7366.72			N/A
5/2/2019	UK100.i	11:30:00 AM	7382.8	7383.05			N/A
5/2/2019	UK100.i	1:30:00 PM	7383.3	7382.8			N/A
5/2/2019	UK100.i	3:30:00 PM	7378.47	7377.3			N/A
5/2/2019	USDCAD	9:30:00 AM	1.34351	1.34324	1000	1000	N/A
5/2/2019	USDCAD	11:30:00 AM	1.34436	1.34437			N/A
5/2/2019	USDCAD	1:30:00 PM	1.34428	1.34438			N/A
5/2/2019	USDCAD	3:30:00 PM	1.34518	1.34479			N/A
5/2/2019	USDCAD.fx	9:30:00 AM	1.34353	1.34321			N/A
5/2/2019	USDCAD.fx	11:30:00 AM	1.34438	1.34434			N/A
5/2/2019	USDCAD.fx	1:30:00 PM	1.34431	1.34435			N/A
5/2/2019	USDCAD.fx	3:30:00 PM	1.34519	1.34476			N/A
5/2/2019	USDCHF	9:30:00 AM	1.01803	1.01809			N/A
5/2/2019	USDCHF	11:30:00 AM	1.01839	1.01834			N/A
5/2/2019	USDCHF	1:30:00 PM	1.01953	1.01962			N/A
5/2/2019	USDCHF	3:30:00 PM	1.01903	1.01881			N/A
5/2/2019	USDCHF.fx	9:30:00 AM	1.01807	1.01804			N/A
5/2/2019	USDCHF.fx	11:30:00 AM	1.01843	1.01829			N/A
5/2/2019	USDCHF.fx	1:30:00 PM	1.01957	1.01956			N/A
5/2/2019	USDCHF.fx	3:30:00 PM	1.01907	1.01876			N/A
5/2/2019	USDCZK	9:30:00 AM	22.869	22.89			N/A
5/2/2019	USDCZK	11:30:00 AM	22.854	22.875			N/A
5/2/2019	USDCZK	1:30:00 PM	22.881	22.902			N/A
5/2/2019	USDCZK	3:30:00 PM	22.918	22.92			N/A

5/2/2019	USDCZK.fx	9:30:00 AM	22.8768	22.8812			N/A
5/2/2019	USDCZK.fx	11:30:00 AM	22.863	22.8664			N/A
5/2/2019	USDCZK.fx	1:30:00 PM	22.8885	22.8941			N/A
5/2/2019	USDCZK.fx	3:30:00 PM	22.9245	22.9128			N/A
5/2/2019	USDDKK	9:30:00 AM	6.6651	6.6682			N/A
5/2/2019	USDDKK	11:30:00 AM	6.6561	6.6594			N/A
5/2/2019	USDDKK	1:30:00 PM	6.6646	6.6682			N/A
5/2/2019	USDDKK	3:30:00 PM	6.6643	6.6654			N/A
5/2/2019	USDDKK.fx	9:30:00 AM	6.6654	6.66623			N/A
5/2/2019	USDDKK.fx	11:30:00 AM	6.65648	6.65739			N/A
5/2/2019	USDDKK.fx	1:30:00 PM	6.66519	6.6662			N/A
5/2/2019	USDDKK.fx	3:30:00 PM	6.66462	6.66334			N/A
5/2/2019	USDHKD	9:30:00 AM	7.845	7.8449			N/A
5/2/2019	USDHKD	11:30:00 AM	7.8445	7.8446			N/A
5/2/2019	USDHKD	1:30:00 PM	7.8431	7.8436			N/A
5/2/2019	USDHKD	3:30:00 PM	7.8445	7.8447			N/A
5/2/2019	USDHKD.fx	9:30:00 AM	7.84491	7.84538			N/A
5/2/2019	USDHKD.fx	11:30:00 AM	7.84442	7.84469			N/A
5/2/2019	USDHKD.fx	1:30:00 PM	7.84386	7.84444			N/A
5/2/2019	USDHKD.fx	3:30:00 PM	7.84449	7.84478			N/A
5/2/2019	USDHUF	9:30:00 AM	289.62	290.05			N/A
5/2/2019	USDHUF	11:30:00 AM	289.05	289.5			N/A
5/2/2019	USDHUF	1:30:00 PM	289.27	289.73			N/A
5/2/2019	USDHUF	3:30:00 PM	289.04	289.36			N/A
5/2/2019	USDHUF.fx	9:30:00 AM	289.825	289.837			N/A
5/2/2019	USDHUF.fx	11:30:00 AM	289.256	289.295			N/A
5/2/2019	USDHUF.fx	1:30:00 PM	289.475	289.515			N/A
5/2/2019	USDHUF.fx	3:30:00 PM	289.236	289.183			N/A
5/2/2019	USDINR	9:30:00 AM					N/A
5/2/2019	USDINR	11:30:00 AM	64.55	74.55			N/A
5/2/2019	USDINR	1:30:00 PM					N/A
5/2/2019	USDINR	3:30:00 PM					N/A
5/2/2019	USDJPY	9:30:00 AM	111.538	111.552			N/A
5/2/2019	USDJPY	11:30:00 AM	111.506	111.518			N/A

5/2/2019	USDJPY	1:30:00 PM	111.526	111.54			N/A
5/2/2019	USDJPY	3:30:00 PM	111.511	111.477			N/A
5/2/2019	USDJPY.fx	9:30:00 AM	111.544	111.544			N/A
5/2/2019	USDJPY.fx	11:30:00 AM	111.512	111.511			N/A
5/2/2019	USDJPY.fx	1:30:00 PM	111.532	111.533			N/A
5/2/2019	USDJPY.fx	3:30:00 PM	111.517	111.47			N/A
5/2/2019	USDMXN	9:30:00 AM	18.988	18.989			N/A
5/2/2019	USDMXN	11:30:00 AM	18.944	18.952			N/A
5/2/2019	USDMXN	1:30:00 PM	18.977	18.985			N/A
5/2/2019	USDMXN	3:30:00 PM	18.981	18.981			N/A
5/2/2019	USDMXN.f	9:30:00 AM	18.9912	18.9876			N/A
5/2/2019	USDMXN.f	11:30:00 AM	18.9478	18.9483			N/A
5/2/2019	USDMXN.f	1:30:00 PM	18.9804	18.9821			N/A
5/2/2019	USDMXN.f	3:30:00 PM	18.9851	18.9771			N/A
5/2/2019	USDNOK	9:30:00 AM	8.676	8.6793			N/A
5/2/2019	USDNOK	11:30:00 AM	8.6807	8.6889			N/A
5/2/2019	USDNOK	1:30:00 PM	8.6912	8.6995			N/A
5/2/2019	USDNOK	3:30:00 PM	8.7185	8.7168			N/A
5/2/2019	USDNOK.fx	9:30:00 AM	8.67955	8.67537			N/A
5/2/2019	USDNOK.fx	11:30:00 AM	8.68473	8.68454			N/A
5/2/2019	USDNOK.fx	1:30:00 PM	8.69504	8.69518			N/A
5/2/2019	USDNOK.fx	3:30:00 PM	8.72134	8.71203			N/A
5/2/2019	USDPLN	9:30:00 AM	3.8258	3.827			N/A
5/2/2019	USDPLN	11:30:00 AM	3.8153	3.8167			N/A
5/2/2019	USDPLN	1:30:00 PM	3.8205	3.822			N/A
5/2/2019	USDPLN	3:30:00 PM	3.82	3.8202			N/A
5/2/2019	USDPLN.fx	9:30:00 AM	3.82488	3.82792			N/A
5/2/2019	USDPLN.fx	11:30:00 AM	3.81443	3.81741			N/A
5/2/2019	USDPLN.fx	1:30:00 PM	3.81976	3.82273			N/A
5/2/2019	USDPLN.fx	3:30:00 PM	3.81918	3.82118			N/A
5/2/2019	USDRUB	9:30:00 AM					N/A
5/2/2019	USDRUB	11:30:00 AM	64.947	65.34			N/A
5/2/2019	USDRUB	1:30:00 PM	65.077	65.459			N/A
5/2/2019	USDRUB	3:30:00 PM	65.227	65.582			N/A

5/2/2019	USDSEK	9:30:00 AM	9.5473	9.5314			N/A
5/2/2019	USDSEK	11:30:00 AM	9.5281	9.5286			N/A
5/2/2019	USDSEK	1:30:00 PM	9.5347	9.5383			N/A
5/2/2019	USDSEK	3:30:00 PM	9.5492	9.5463			N/A
5/2/2019	USDSEK.fx	9:30:00 AM	9.54894	9.531			N/A
5/2/2019	USDSEK.fx	11:30:00 AM	9.53112	9.52668			N/A
5/2/2019	USDSEK.fx	1:30:00 PM	9.53762	9.53653			N/A
5/2/2019	USDSEK.fx	3:30:00 PM	9.55126	9.54451			N/A
5/2/2019	USDSGD	9:30:00 AM	1.3612	1.3615			N/A
5/2/2019	USDSGD	11:30:00 AM	1.3603	1.3607			N/A
5/2/2019	USDSGD	1:30:00 PM	1.3613	1.3618			N/A
5/2/2019	USDSGD	3:30:00 PM	1.3616	1.3618			N/A
5/2/2019	USDSGD.fx	9:30:00 AM	1.36115	1.36156			N/A
5/2/2019	USDSGD.fx	11:30:00 AM	1.36027	1.3608			N/A
5/2/2019	USDSGD.fx	1:30:00 PM	1.36128	1.36179			N/A
5/2/2019	USDSGD.fx	3:30:00 PM	1.36156	1.36176			N/A
5/2/2019	USDZAR	9:30:00 AM	14.4453	14.456			N/A
5/2/2019	USDZAR	11:30:00 AM	14.4182	14.438			N/A
5/2/2019	USDZAR	1:30:00 PM	14.4447	14.4604			N/A
5/2/2019	USDZAR	3:30:00 PM	14.4713	14.486			N/A
5/2/2019	USDZAR.fx	9:30:00 AM	14.4499	14.45035			N/A
5/2/2019	USDZAR.fx	11:30:00 AM	14.42471	14.43137			N/A
5/2/2019	USDZAR.fx	1:30:00 PM	14.45129	14.45392			N/A
5/2/2019	USDZAR.fx	3:30:00 PM	14.47757	14.48054			N/A
5/2/2019	XAUUSD	9:30:00 AM	1271.82	1272.04			N/A
5/2/2019	XAUUSD	11:30:00 AM	1270.54	1270.6			N/A
5/2/2019	XAUUSD	1:30:00 PM	1270.95	1271.22			N/A
5/2/2019	XAUUSD	3:30:00 PM	1270.49	1269.09			N/A
5/2/2019	ZARJPY	9:30:00 AM	7.7	7.71			N/A
5/2/2019	ZARJPY	11:30:00 AM	7.69	7.73			N/A
5/2/2019	ZARJPY	1:30:00 PM	7.7	7.73			N/A
5/2/2019	ZARJPY	3:30:00 PM	7.68	7.7			N/A
5/2/2019	ZARJPY.fx	9:30:00 AM	7.714	7.716			N/A
5/2/2019	ZARJPY.fx	11:30:00 AM	7.722	7.728			N/A

5/2/2019	ZARJPY.fx	1:30:00 PM	7.712	7.715			N/A
5/2/2019	ZARJPY.fx	3:30:00 PM	7.694	7.698			N/A
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5/3/2019	#BIDU	3:30:00 PM					N/A
5/3/2019	#Bitcoin	9:30:00 AM	5826.74	5846.26			N/A
5/3/2019	#Bitcoin	11:30:00 AM	5852.9	5883.48			N/A
5/3/2019	#Bitcoin	1:30:00 PM	6018.91	6048.16			N/A
5/3/2019	#Bitcoin	3:30:00 PM	6019.46	6048.25			N/A
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5/3/2019	#CHL	3:30:00 PM					N/A
5/3/2019	#CL.f	9:30:00 AM	61.772	61.824			N/A
5/3/2019	#CL.f	11:30:00 AM	61.524	61.439			N/A
5/3/2019	#CL.f	1:30:00 PM	61.787	61.813			N/A
5/3/2019	#CL.f	3:30:00 PM	62.129	62.104			N/A
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5/3/2019	#Ethereum	3:30:00 PM	166.13	168.12			N/A
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5/3/2019	AUDJPY.fx	1:30:00 PM	78.01	78.008			N/A
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5/3/2019	AUDNOK	11:30:00 AM	6.132	6.1368			N/A
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5/3/2019	AUDNOK.fx	11:30:00 AM	6.1336	6.1347			N/A
5/3/2019	AUDNOK.fx	1:30:00 PM	6.1346	6.1367			N/A
5/3/2019	AUDNOK.fx	3:30:00 PM	6.137	6.1352			N/A
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5/3/2019	AUDNZD	3:30:00 PM	1.05712	1.05745			N/A
5/3/2019	AUDNZD.fx	9:30:00 AM	1.05669	1.05664			N/A
5/3/2019	AUDNZD.fx	11:30:00 AM	1.05733	1.05735			N/A
5/3/2019	AUDNZD.fx	1:30:00 PM	1.05769	1.0577			N/A
5/3/2019	AUDNZD.fx	3:30:00 PM	1.0575	1.05716			N/A
5/3/2019	AUDPLN	9:30:00 AM	2.6833	2.6863			N/A
5/3/2019	AUDPLN	11:30:00 AM	2.6842	2.6874			N/A
5/3/2019	AUDPLN	1:30:00 PM	2.6884	2.6917			N/A
5/3/2019	AUDPLN	3:30:00 PM	2.6876	2.6888			N/A

5/3/2019	AUDSEK	9:30:00 AM	6.6992	6.7019			N/A
5/3/2019	AUDSEK	11:30:00 AM	6.6975	6.6997			N/A
5/3/2019	AUDSEK	1:30:00 PM	6.7143	6.7177			N/A
5/3/2019	AUDSEK	3:30:00 PM	6.7153	6.7147			N/A
5/3/2019	AUDSEK.fx	9:30:00 AM	6.6946	6.7063			N/A
5/3/2019	AUDSEK.fx	11:30:00 AM	6.6929	6.7041			N/A
5/3/2019	AUDSEK.fx	1:30:00 PM	6.7098	6.7222			N/A
5/3/2019	AUDSEK.fx	3:30:00 PM	6.7093	6.7194			N/A
5/3/2019	AUDSGD	9:30:00 AM	0.9534	0.9537			N/A
5/3/2019	AUDSGD	11:30:00 AM	0.9539	0.9541			N/A
5/3/2019	AUDSGD	1:30:00 PM	0.9542	0.9544			N/A
5/3/2019	AUDSGD	3:30:00 PM	0.9542	0.9532			N/A
5/3/2019	AUDSGD.fx	9:30:00 AM	0.95351	0.95348			N/A
5/3/2019	AUDSGD.fx	11:30:00 AM	0.95404	0.95413			N/A
5/3/2019	AUDSGD.fx	1:30:00 PM	0.95431	0.9544			N/A
5/3/2019	AUDSGD.fx	3:30:00 PM	0.95393	0.95317			N/A
5/3/2019	AUDUSD	9:30:00 AM	0.69939	0.69943			N/A
5/3/2019	AUDUSD	11:30:00 AM	0.69969	0.69981			N/A
5/3/2019	AUDUSD	1:30:00 PM	0.69961	0.69973			N/A
5/3/2019	AUDUSD	3:30:00 PM	0.69973	0.69868			N/A
5/3/2019	AUDUSD.fx	9:30:00 AM	0.69943	0.69937			N/A
5/3/2019	AUDUSD.fx	11:30:00 AM	0.69974	0.69975			N/A
5/3/2019	AUDUSD.fx	1:30:00 PM	0.69965	0.69967			N/A
5/3/2019	AUDUSD.fx	3:30:00 PM	0.69965	0.69864			N/A
5/3/2019	AUDZAR	9:30:00 AM	10.1734	10.1834			N/A
5/3/2019	AUDZAR	11:30:00 AM	10.1695	10.1811			N/A
5/3/2019	AUDZAR	1:30:00 PM	10.1625	10.1757			N/A
5/3/2019	AUDZAR	3:30:00 PM	10.1484	10.1469			N/A
5/3/2019	AUS200.i	9:30:00 AM					N/A
5/3/2019	AUS200.i	11:30:00 AM	6348.33	6352.83			N/A
5/3/2019	AUS200.i	1:30:00 PM	6347.53	6351.53			N/A
5/3/2019	AUS200.i	3:30:00 PM	6353.2	6352.63			N/A
5/3/2019	BCHUSD	9:30:00 AM	269.5	271.3			N/A
5/3/2019	BCHUSD	11:30:00 AM	265.6	267.28			N/A

5/3/2019	BCHUSD	1:30:00 PM	287.95	289.82			N/A
5/3/2019	BCHUSD	3:30:00 PM					N/A
5/3/2019	CADCHF	9:30:00 AM	0.75716	0.75788			N/A
5/3/2019	CADCHF	11:30:00 AM	0.75744	0.75816			N/A
5/3/2019	CADCHF	1:30:00 PM	0.75747	0.75821			N/A
5/3/2019	CADCHF	3:30:00 PM	0.75718	0.75727			N/A
5/3/2019	CADCHF.fx	9:30:00 AM	0.75748	0.75754			N/A
5/3/2019	CADCHF.fx	11:30:00 AM	0.75778	0.75781			N/A
5/3/2019	CADCHF.fx	1:30:00 PM	0.75782	0.75785			N/A
5/3/2019	CADCHF.fx	3:30:00 PM	0.75749	0.75706			N/A
5/3/2019	CADCZK	9:30:00 AM	17.066	17.082			N/A
5/3/2019	CADCZK	11:30:00 AM	17.076	17.092			N/A
5/3/2019	CADCZK	1:30:00 PM	17.094	17.111			N/A
5/3/2019	CADCZK	3:30:00 PM	17.097	17.099			N/A
5/3/2019	CADDDKK	9:30:00 AM	4.963	4.967			N/A
5/3/2019	CADDDKK	11:30:00 AM	4.965	4.969			N/A
5/3/2019	CADDDKK	1:30:00 PM					N/A
5/3/2019	CADDDKK	3:30:00 PM	4.967	4.968			N/A
5/3/2019	CADHKD	9:30:00 AM	5.8222	5.8261			N/A
5/3/2019	CADHKD	11:30:00 AM	5.8245	5.8284			N/A
5/3/2019	CADHKD	1:30:00 PM	5.822	5.8258			N/A
5/3/2019	CADHKD	3:30:00 PM	5.8221	5.8172			N/A
5/3/2019	CADHUF	9:30:00 AM	215.31	215.43			N/A
5/3/2019	CADHUF	11:30:00 AM	215.26	215.4			N/A
5/3/2019	CADHUF	1:30:00 PM	215.28	215.43			N/A
5/3/2019	CADHUF	3:30:00 PM	215	215			N/A
5/3/2019	CADJPY	9:30:00 AM	82.75	82.821			N/A
5/3/2019	CADJPY	11:30:00 AM	82.795	82.863			N/A
5/3/2019	CADJPY	1:30:00 PM	82.742	82.814			N/A
5/3/2019	CADJPY	3:30:00 PM	82.829	82.809			N/A
5/3/2019	CADJPY.fx	9:30:00 AM	82.783	82.785			N/A
5/3/2019	CADJPY.fx	11:30:00 AM	82.829	82.827			N/A
5/3/2019	CADJPY.fx	1:30:00 PM	82.775	82.779			N/A
5/3/2019	CADJPY.fx	3:30:00 PM	82.836	82.783			N/A

5/3/2019	CADMXN	9:30:00 AM	14.1897	14.2013			N/A
5/3/2019	CADMXN	11:30:00 AM	14.1942	14.206			N/A
5/3/2019	CADMXN	1:30:00 PM	14.1913	14.2037			N/A
5/3/2019	CADMXN	3:30:00 PM	14.1925	14.1926			N/A
5/3/2019	CADNOK	9:30:00 AM	6.5056	6.5082			N/A
5/3/2019	CADNOK	11:30:00 AM	6.5076	6.511			N/A
5/3/2019	CADNOK	1:30:00 PM	6.5074	6.5118			N/A
5/3/2019	CADNOK	3:30:00 PM	6.509	6.5059			N/A
5/3/2019	CADPLN	9:30:00 AM	2.8492	2.8511			N/A
5/3/2019	CADPLN	11:30:00 AM	2.8491	2.8508			N/A
5/3/2019	CADPLN	1:30:00 PM	2.8534	2.855			N/A
5/3/2019	CADPLN	3:30:00 PM	2.8501	2.8503			N/A
5/3/2019	CADSEK	9:30:00 AM	7.1101	7.114			N/A
5/3/2019	CADSEK	11:30:00 AM	7.1078	7.1108			N/A
5/3/2019	CADSEK	1:30:00 PM	7.1236	7.1272			N/A
5/3/2019	CADSEK	3:30:00 PM	7.1222	7.1184			N/A
5/3/2019	CADSGD	9:30:00 AM	1.0115	1.0118			N/A
5/3/2019	CADSGD	11:30:00 AM	1.0118	1.0121			N/A
5/3/2019	CADSGD	1:30:00 PM	1.012	1.0123			N/A
5/3/2019	CADSGD	3:30:00 PM	1.0116	1.0113			N/A
5/3/2019	CADZAR	9:30:00 AM	10.8013	10.8147			N/A
5/3/2019	CADZAR	11:30:00 AM	10.7965	10.8096			N/A
5/3/2019	CADZAR	1:30:00 PM	10.7848	10.8005			N/A
5/3/2019	CADZAR	3:30:00 PM	10.7713	10.7664			N/A
5/3/2019	CHFCZK	9:30:00 AM	22.532	22.55			N/A
5/3/2019	CHFCZK	11:30:00 AM	22.537	22.554			N/A
5/3/2019	CHFCZK	1:30:00 PM	22.561	22.575			N/A
5/3/2019	CHFCZK	3:30:00 PM	22.579	22.586			N/A
5/3/2019	CHFDKK	9:30:00 AM	6.552	6.555			N/A
5/3/2019	CHFDKK	11:30:00 AM	6.553	6.555			N/A
5/3/2019	CHFDKK	1:30:00 PM	6.554	6.557			N/A
5/3/2019	CHFDKK	3:30:00 PM	6.562	6.562			N/A
5/3/2019	CHFDKK.fx	9:30:00 AM	6.5504	6.5568			N/A
5/3/2019	CHFDKK.fx	11:30:00 AM	6.5513	6.5574			N/A

5/3/2019	CHFDKK.fx	1:30:00 PM	6.5529	6.5587			N/A
5/3/2019	CHFDKK.fx	3:30:00 PM	6.5602	6.5641			N/A
5/3/2019	CHFHKD	9:30:00 AM	7.687	7.6909			N/A
5/3/2019	CHFHKD	11:30:00 AM	7.6872	7.6905			N/A
5/3/2019	CHFHKD	1:30:00 PM	7.6836	7.687			N/A
5/3/2019	CHFHKD	3:30:00 PM	7.6891	7.685			N/A
5/3/2019	CHFHUF	9:30:00 AM	284.11	284.49			N/A
5/3/2019	CHFHUF	11:30:00 AM	284.02	284.36			N/A
5/3/2019	CHFHUF	1:30:00 PM	284.01	284.37			N/A
5/3/2019	CHFHUF	3:30:00 PM	283.84	284.12			N/A
5/3/2019	CHFJPY	9:30:00 AM	109.253	109.322			N/A
5/3/2019	CHFJPY	11:30:00 AM	109.272	109.335			N/A
5/3/2019	CHFJPY	1:30:00 PM	109.203	109.272			N/A
5/3/2019	CHFJPY	3:30:00 PM	109.377	109.34			N/A
5/3/2019	CHFJPY.fx	9:30:00 AM	109.286	109.288			N/A
5/3/2019	CHFJPY.fx	11:30:00 AM	109.306	109.301			N/A
5/3/2019	CHFJPY.fx	1:30:00 PM	109.236	109.237			N/A
5/3/2019	CHFJPY.fx	3:30:00 PM	109.393	109.307			N/A
5/3/2019	CHFMXN	9:30:00 AM	18.7328	18.7485			N/A
5/3/2019	CHFMXN	11:30:00 AM	18.7303	18.7468			N/A
5/3/2019	CHFMXN	1:30:00 PM	18.7269	18.7434			N/A
5/3/2019	CHFMXN	3:30:00 PM	18.7441	18.7425			N/A
5/3/2019	CHFNOK	9:30:00 AM	8.5896	8.5965			N/A
5/3/2019	CHFNOK	11:30:00 AM	8.5888	8.597			N/A
5/3/2019	CHFNOK	1:30:00 PM	8.5877	8.5951			N/A
5/3/2019	CHFNOK	3:30:00 PM	8.5958	8.6018			N/A
5/3/2019	CHFNOK.fx	9:30:00 AM	8.59276	8.59307			N/A
5/3/2019	CHFNOK.fx	11:30:00 AM	8.59218	8.59347			N/A
5/3/2019	CHFNOK.fx	1:30:00 PM	8.5912	8.59159			N/A
5/3/2019	CHFNOK.fx	3:30:00 PM	8.59853	8.59862			N/A
5/3/2019	CHFPLN	9:30:00 AM	3.7614	3.7641			N/A
5/3/2019	CHFPLN	11:30:00 AM	3.7607	3.7634			N/A
5/3/2019	CHFPLN	1:30:00 PM	3.7651	3.768			N/A
5/3/2019	CHFPLN	3:30:00 PM	3.766	3.7675			N/A

5/3/2019	CHFPLN.fx	9:30:00 AM	3.75894	3.7665			N/A
5/3/2019	CHFPLN.fx	11:30:00 AM	3.75826	3.76565			N/A
5/3/2019	CHFPLN.fx	1:30:00 PM	3.76274	3.77025			N/A
5/3/2019	CHFPLN.fx	3:30:00 PM	3.76295	3.77048			N/A
5/3/2019	CHFSEK	9:30:00 AM	9.387	9.3919			N/A
5/3/2019	CHFSEK	11:30:00 AM	9.3804	9.3836			N/A
5/3/2019	CHFSEK	1:30:00 PM	9.4008	9.4046			N/A
5/3/2019	CHFSEK	3:30:00 PM	9.403	9.4006			N/A
5/3/2019	CHFSGD	9:30:00 AM	1.3362	1.3366			N/A
5/3/2019	CHFSGD	11:30:00 AM	1.3361	1.3366			N/A
5/3/2019	CHFSGD	1:30:00 PM	1.3361	1.3365			N/A
5/3/2019	CHFSGD	3:30:00 PM	1.3371	1.3359			N/A
5/3/2019	CHFSGD.fx	9:30:00 AM	1.33633	1.33639			N/A
5/3/2019	CHFSGD.fx	11:30:00 AM	1.33643	1.33638			N/A
5/3/2019	CHFSGD.fx	1:30:00 PM	1.33631	1.33637			N/A
5/3/2019	CHFSGD.fx	3:30:00 PM	1.3365	1.33574			N/A
5/3/2019	CHFZAR	9:30:00 AM	14.2636	14.2731			N/A
5/3/2019	CHFZAR	11:30:00 AM	14.2511	14.2604			N/A
5/3/2019	CHFZAR	1:30:00 PM	14.2357	14.2484			N/A
5/3/2019	CHFZAR	3:30:00 PM	14.2329	14.2203			N/A
5/3/2019	CZKJPY	9:30:00 AM					N/A
5/3/2019	CZKJPY	11:30:00 AM					N/A
5/3/2019	CZKJPY	1:30:00 PM	4.839	4.843			N/A
5/3/2019	CZKJPY	3:30:00 PM	4.844	4.845			N/A
5/3/2019	DAX30.i	9:30:00 AM	12354.57	12354.07			N/A
5/3/2019	DAX30.i	11:30:00 AM	12399.32	12398.82			N/A
5/3/2019	DAX30.i	1:30:00 PM	12384.32	12382.82			N/A
5/3/2019	DAX30.i	3:30:00 PM	12440.51	12405.07			N/A
5/3/2019	DJ30.i	9:30:00 AM					N/A
5/3/2019	DJ30.i	11:30:00 AM					N/A
5/3/2019	DJ30.i	1:30:00 PM					N/A
5/3/2019	DJ30.i	3:30:00 PM					N/A
5/3/2019	DKKJPY	9:30:00 AM					N/A
5/3/2019	DKKJPY	11:30:00 AM					N/A

5/3/2019	DKKJPY	1:30:00 PM					N/A
5/3/2019	DKKJPY	3:30:00 PM	16.68	16.69			N/A
5/3/2019	EURAUD	9:30:00 AM	1.59579	1.59613			N/A
5/3/2019	EURAUD	11:30:00 AM	1.59468	1.5951			N/A
5/3/2019	EURAUD	1:30:00 PM	1.59368	1.59416			N/A
5/3/2019	EURAUD	3:30:00 PM	1.5939	1.59326			N/A
5/3/2019	EURAUD.fx	9:30:00 AM	1.59599	1.59591			N/A
5/3/2019	EURAUD.fx	11:30:00 AM	1.59489	1.59487			N/A
5/3/2019	EURAUD.fx	1:30:00 PM	1.5939	1.59394			N/A
5/3/2019	EURAUD.fx	3:30:00 PM	1.59411	1.59317			N/A
5/3/2019	EURCAD	9:30:00 AM	1.50337	1.50424			N/A
5/3/2019	EURCAD	11:30:00 AM	1.50267	1.50345			N/A
5/3/2019	EURCAD	1:30:00 PM	1.50226	1.50308			N/A
5/3/2019	EURCAD	3:30:00 PM	1.50276	1.50215			N/A
5/3/2019	EURCAD.fx	9:30:00 AM	1.5038	1.50381			N/A
5/3/2019	EURCAD.fx	11:30:00 AM	1.50309	1.50303			N/A
5/3/2019	EURCAD.fx	1:30:00 PM	1.50267	1.50265			N/A
5/3/2019	EURCAD.fx	3:30:00 PM	1.50296	1.50176			N/A
5/3/2019	EURCHF	9:30:00 AM	1.13908	1.13925			N/A
5/3/2019	EURCHF	11:30:00 AM	1.139	1.1391			N/A
5/3/2019	EURCHF	1:30:00 PM	1.13874	1.1388	500	500	N/A
5/3/2019	EURCHF	3:30:00 PM	1.13789	1.13754			N/A
5/3/2019	EURCHF.fx	9:30:00 AM	1.13914	1.13919			N/A
5/3/2019	EURCHF.fx	11:30:00 AM	1.13907	1.13904			N/A
5/3/2019	EURCHF.fx	1:30:00 PM	1.13879	1.13874			N/A
5/3/2019	EURCHF.fx	3:30:00 PM	1.1379	1.1375			N/A
5/3/2019	EURCZK	9:30:00 AM	25.655	25.693			N/A
5/3/2019	EURCZK	11:30:00 AM	25.657	25.696			N/A
5/3/2019	EURCZK	1:30:00 PM	25.677	25.716			N/A
5/3/2019	EURCZK	3:30:00 PM	25.67	25.705			N/A
5/3/2019	EURDKK	9:30:00 AM	7.4627	7.4631			N/A
5/3/2019	EURDKK	11:30:00 AM	7.4629	7.4632			N/A
5/3/2019	EURDKK	1:30:00 PM	7.4647	7.4649			N/A
5/3/2019	EURDKK	3:30:00 PM	7.4645	7.4654			N/A

5/3/2019	EURGBP	9:30:00 AM	0.85665	0.85678			N/A
5/3/2019	EURGBP	11:30:00 AM	0.85743	0.8574			N/A
5/3/2019	EURGBP	1:30:00 PM	0.85849	0.85857			N/A
5/3/2019	EURGBP	3:30:00 PM	0.85792	0.85733			N/A
5/3/2019	EURGBP.fx	9:30:00 AM	0.85668	0.85672			N/A
5/3/2019	EURGBP.fx	11:30:00 AM	0.85745	0.85735			N/A
5/3/2019	EURGBP.fx	1:30:00 PM	0.85852	0.85852			N/A
5/3/2019	EURGBP.fx	3:30:00 PM	0.85786	0.85728			N/A
5/3/2019	EURHKD	9:30:00 AM	8.7572	8.7623			N/A
5/3/2019	EURHKD	11:30:00 AM	8.7556	8.761			N/A
5/3/2019	EURHKD	1:30:00 PM	8.7499	8.7546			N/A
5/3/2019	EURHKD	3:30:00 PM	8.7484	8.7387			N/A
5/3/2019	EURHKD.fx	9:30:00 AM	8.75999	8.75933			N/A
5/3/2019	EURHKD.fx	11:30:00 AM	8.75847	8.75813			N/A
5/3/2019	EURHKD.fx	1:30:00 PM	8.75278	8.75181			N/A
5/3/2019	EURHKD.fx	3:30:00 PM	8.75037	8.73606			N/A
5/3/2019	EURHUF	9:30:00 AM	323.74	324.45			N/A
5/3/2019	EURHUF	11:30:00 AM	323.52	324.12			N/A
5/3/2019	EURHUF	1:30:00 PM	323.33	323.95			N/A
5/3/2019	EURHUF	3:30:00 PM	323.03	323.73			N/A
5/3/2019	EURHUF.fx	9:30:00 AM	324.011	324.204			N/A
5/3/2019	EURHUF.fx	11:30:00 AM	323.841	323.97			N/A
5/3/2019	EURHUF.fx	1:30:00 PM	323.659	323.808			N/A
5/3/2019	EURHUF.fx	3:30:00 PM	323.308	323.451			N/A
5/3/2019	EURJPY	9:30:00 AM	124.491	124.499			N/A
5/3/2019	EURJPY	11:30:00 AM	124.498	124.506			N/A
5/3/2019	EURJPY	1:30:00 PM	124.399	124.395			N/A
5/3/2019	EURJPY	3:30:00 PM	124.457	124.335			N/A
5/3/2019	EURJPY.fx	9:30:00 AM	124.493	124.496			N/A
5/3/2019	EURJPY.fx	11:30:00 AM	124.5	124.503			N/A
5/3/2019	EURJPY.fx	1:30:00 PM	124.401	124.392			N/A
5/3/2019	EURJPY.fx	3:30:00 PM	124.452	124.333			N/A
5/3/2019	EURMXN	9:30:00 AM	21.3423	21.3595			N/A
5/3/2019	EURMXN	11:30:00 AM	21.3388	21.3591			N/A

5/3/2019	EURMXN	1:30:00 PM	21.3286	21.3479			N/A
5/3/2019	EURMXN	3:30:00 PM	21.3509	21.3306			N/A
5/3/2019	EURMXN.fx	9:30:00 AM	21.3508	21.3502			N/A
5/3/2019	EURMXN.fx	11:30:00 AM	21.3477	21.3498			N/A
5/3/2019	EURMXN.fx	1:30:00 PM	21.3378	21.3388			N/A
5/3/2019	EURMXN.fx	3:30:00 PM	21.3601	21.3221			N/A
5/3/2019	EURNOK	9:30:00 AM	9.7833	9.7942			N/A
5/3/2019	EURNOK	11:30:00 AM	9.7817	9.794			N/A
5/3/2019	EURNOK	1:30:00 PM	9.7776	9.7899			N/A
5/3/2019	EURNOK	3:30:00 PM	9.779	9.7879			N/A
5/3/2019	EURNOK.fx	9:30:00 AM	9.78863	9.78877			N/A
5/3/2019	EURNOK.fx	11:30:00 AM	9.78746	9.7886			N/A
5/3/2019	EURNOK.fx	1:30:00 PM	9.78305	9.78436			N/A
5/3/2019	EURNOK.fx	3:30:00 PM	9.78242	9.7831			N/A
5/3/2019	EURNZD	9:30:00 AM	1.68663	1.68739			N/A
5/3/2019	EURNZD	11:30:00 AM	1.68656	1.68744			N/A
5/3/2019	EURNZD	1:30:00 PM	1.68616	1.68694	21100	21100	N/A
5/3/2019	EURNZD	3:30:00 PM	1.68556	1.68509			N/A
5/3/2019	EURNZD.fx	9:30:00 AM	1.68705	1.68696			N/A
5/3/2019	EURNZD.fx	11:30:00 AM	1.68697	1.68703			N/A
5/3/2019	EURNZD.fx	1:30:00 PM	1.68659	1.68652			N/A
5/3/2019	EURNZD.fx	3:30:00 PM	1.68587	1.68489			N/A
5/3/2019	EURPLN	9:30:00 AM	4.2849	4.2877			N/A
5/3/2019	EURPLN	11:30:00 AM	4.2837	4.2855			N/A
5/3/2019	EURPLN	1:30:00 PM	4.2876	4.291			N/A
5/3/2019	EURPLN	3:30:00 PM	4.2841	4.2868			N/A
5/3/2019	EURPLN.fx	9:30:00 AM	4.28417	4.28899			N/A
5/3/2019	EURPLN.fx	11:30:00 AM	4.28308	4.28762			N/A
5/3/2019	EURPLN.fx	1:30:00 PM	4.28697	4.29162			N/A
5/3/2019	EURPLN.fx	3:30:00 PM	4.28286	4.28779			N/A
5/3/2019	EURRUB	9:30:00 AM					N/A
5/3/2019	EURRUB	11:30:00 AM	72.633	73.047			N/A
5/3/2019	EURRUB	1:30:00 PM	72.55	72.985			N/A
5/3/2019	EURRUB	3:30:00 PM	72.467	72.824			N/A

5/3/2019	EURSEK	9:30:00 AM	10.6951	10.7001			N/A
5/3/2019	EURSEK	11:30:00 AM	10.686	10.6892			N/A
5/3/2019	EURSEK	1:30:00 PM	10.7066	10.7107			N/A
5/3/2019	EURSEK	3:30:00 PM	10.7046	10.7062			N/A
5/3/2019	EURSEK.fx	9:30:00 AM	10.69687	10.69832			N/A
5/3/2019	EURSEK.fx	11:30:00 AM	10.68765	10.68744			N/A
5/3/2019	EURSEK.fx	1:30:00 PM	10.70823	10.70889			N/A
5/3/2019	EURSEK.fx	3:30:00 PM	10.70597	10.70567			N/A
5/3/2019	EURSGD	9:30:00 AM	1.5219	1.5227			N/A
5/3/2019	EURSGD	11:30:00 AM	1.5218	1.5227			N/A
5/3/2019	EURSGD	1:30:00 PM	1.5214	1.5222			N/A
5/3/2019	EURSGD	3:30:00 PM	1.5209	1.5197			N/A
5/3/2019	EURSGD.fx	9:30:00 AM	1.52229	1.5223			N/A
5/3/2019	EURSGD.fx	11:30:00 AM	1.52219	1.52227			N/A
5/3/2019	EURSGD.fx	1:30:00 PM	1.52179	1.52177			N/A
5/3/2019	EURSGD.fx	3:30:00 PM	1.52081	1.51929			N/A
5/3/2019	EURUSD	9:30:00 AM	1.11644	1.11651			N/A
5/3/2019	EURUSD	11:30:00 AM	1.11623	1.11635	10	10	N/A
5/3/2019	EURUSD	1:30:00 PM	1.11548	1.11552	300	10	N/A
5/3/2019	EURUSD	3:30:00 PM	1.11532	1.11347	10	40	N/A
5/3/2019	EURUSD.fx	9:30:00 AM	1.11664	1.1166			N/A
5/3/2019	EURUSD.fx	11:30:00 AM	1.11644	1.11644			N/A
5/3/2019	EURUSD.fx	1:30:00 PM	1.11569	1.11561			N/A
5/3/2019	EURUSD.fx	3:30:00 PM	1.11542	1.11358			N/A
5/3/2019	EURZAR	9:30:00 AM	16.2522	16.2692			N/A
5/3/2019	EURZAR	11:30:00 AM	16.2373	16.2541			N/A
5/3/2019	EURZAR	1:30:00 PM	16.212	16.2278			N/A
5/3/2019	EURZAR	3:30:00 PM	16.2038	16.1732			N/A
5/3/2019	EURZAR.fx	9:30:00 AM	16.25235	16.26907			N/A
5/3/2019	EURZAR.fx	11:30:00 AM	16.23667	16.25482			N/A
5/3/2019	EURZAR.fx	1:30:00 PM	16.21184	16.22865			N/A
5/3/2019	EURZAR.fx	3:30:00 PM	16.19289	16.17364			N/A
5/3/2019	GBPAUD	9:30:00 AM	1.86336	1.86399			N/A
5/3/2019	GBPAUD	11:30:00 AM	1.86075	1.86115			N/A

5/3/2019	GBPAUD	1:30:00 PM	1.85704	1.85774		100	N/A
5/3/2019	GBPAUD	3:30:00 PM	1.85958	1.85829			N/A
5/3/2019	GBPAUD.fx	9:30:00 AM	1.86378	1.86359			N/A
5/3/2019	GBPAUD.fx	11:30:00 AM	1.86114	1.86079			N/A
5/3/2019	GBPAUD.fx	1:30:00 PM	1.85745	1.85735			N/A
5/3/2019	GBPAUD.fx	3:30:00 PM	1.85998	1.8582			N/A
5/3/2019	GBPCAD	9:30:00 AM	1.75502	1.7558			N/A
5/3/2019	GBPCAD	11:30:00 AM	1.75292	1.75335			N/A
5/3/2019	GBPCAD	1:30:00 PM	1.74997	1.75076			N/A
5/3/2019	GBPCAD	3:30:00 PM	1.75184	1.75156			N/A
5/3/2019	GBPCAD.fx	9:30:00 AM	1.75536	1.75541			N/A
5/3/2019	GBPCAD.fx	11:30:00 AM	1.75332	1.753			N/A
5/3/2019	GBPCAD.fx	1:30:00 PM	1.75036	1.75037			N/A
5/3/2019	GBPCAD.fx	3:30:00 PM	1.75206	1.75129			N/A
5/3/2019	GBPCHF	9:30:00 AM	1.32945	1.32991			N/A
5/3/2019	GBPCHF	11:30:00 AM	1.32843	1.32859			N/A
5/3/2019	GBPCHF	1:30:00 PM	1.32621	1.32659			N/A
5/3/2019	GBPCHF	3:30:00 PM	1.3267	1.32634			N/A
5/3/2019	GBPCHF.fx	9:30:00 AM	1.32962	1.32971			N/A
5/3/2019	GBPCHF.fx	11:30:00 AM	1.32863	1.32841			N/A
5/3/2019	GBPCHF.fx	1:30:00 PM	1.32643	1.32639			N/A
5/3/2019	GBPCHF.fx	3:30:00 PM	1.32688	1.32631			N/A
5/3/2019	GBPCZK	9:30:00 AM	29.957	29.98			N/A
5/3/2019	GBPCZK	11:30:00 AM	29.943	29.956			N/A
5/3/2019	GBPCZK	1:30:00 PM	29.922	29.942			N/A
5/3/2019	GBPCZK	3:30:00 PM	29.939	29.954			N/A
5/3/2019	GBPDKK	9:30:00 AM	8.709	8.72			N/A
5/3/2019	GBPDKK	11:30:00 AM	8.703	8.714			N/A
5/3/2019	GBPDKK	1:30:00 PM	8.691	8.702			N/A
5/3/2019	GBPDKK	3:30:00 PM	8.704	8.707			N/A
5/3/2019	GBPDKK.fx	9:30:00 AM	8.7077	8.7208			N/A
5/3/2019	GBPDKK.fx	11:30:00 AM	8.7015	8.7141			N/A
5/3/2019	GBPDKK.fx	1:30:00 PM	8.6895	8.7021			N/A
5/3/2019	GBPDKK.fx	3:30:00 PM	8.7023	8.71			N/A

5/3/2019	GBPHKD	9:30:00 AM	10.2196	10.225			N/A
5/3/2019	GBPHKD	11:30:00 AM	10.2112	10.2149			N/A
5/3/2019	GBPHKD	1:30:00 PM	10.1905	10.1952			N/A
5/3/2019	GBPHKD	3:30:00 PM	10.1952	10.1895			N/A
5/3/2019	GBPHUF	9:30:00 AM	377.71	378.19			N/A
5/3/2019	GBPHUF	11:30:00 AM	377.42	377.65			N/A
5/3/2019	GBPHUF	1:30:00 PM	376.7	377.15			N/A
5/3/2019	GBPHUF	3:30:00 PM	376.38	376.75			N/A
5/3/2019	GBPJPY	9:30:00 AM	145.292	145.34			N/A
5/3/2019	GBPJPY	11:30:00 AM	145.197	145.222			N/A
5/3/2019	GBPJPY	1:30:00 PM	144.875	144.911			N/A
5/3/2019	GBPJPY	3:30:00 PM	145.074	145.035			N/A
5/3/2019	GBPJPY.fx	9:30:00 AM	145.311	145.321			N/A
5/3/2019	GBPJPY.fx	11:30:00 AM	145.218	145.207			N/A
5/3/2019	GBPJPY.fx	1:30:00 PM	144.894	144.891			N/A
5/3/2019	GBPJPY.fx	3:30:00 PM	145.078	145.021			N/A
5/3/2019	GBPMXN	9:30:00 AM	24.9095	24.9234			N/A
5/3/2019	GBPMXN	11:30:00 AM	24.8888	24.898			N/A
5/3/2019	GBPMXN	1:30:00 PM	24.8411	24.8556			N/A
5/3/2019	GBPMXN	3:30:00 PM	24.854	24.8529			N/A
5/3/2019	GBPNOK	9:30:00 AM	11.4218	11.4313			N/A
5/3/2019	GBPNOK	11:30:00 AM	11.4112	11.4218			N/A
5/3/2019	GBPNOK	1:30:00 PM	11.3905	11.4016			N/A
5/3/2019	GBPNOK	3:30:00 PM	11.4051	11.4086			N/A
5/3/2019	GBPNOK.fx	9:30:00 AM	11.42661	11.42654			N/A
5/3/2019	GBPNOK.fx	11:30:00 AM	11.416	11.41772			N/A
5/3/2019	GBPNOK.fx	1:30:00 PM	11.39532	11.39678			N/A
5/3/2019	GBPNOK.fx	3:30:00 PM	11.40952	11.40865			N/A
5/3/2019	GBPNZD	9:30:00 AM	1.96889	1.96961			N/A
5/3/2019	GBPNZD	11:30:00 AM	1.96741	1.96796			N/A
5/3/2019	GBPNZD	1:30:00 PM	1.96415	1.96487			N/A
5/3/2019	GBPNZD	3:30:00 PM	1.96612	1.96452			N/A
5/3/2019	GBPNZD.fx	9:30:00 AM	1.96924	1.96922			N/A
5/3/2019	GBPNZD.fx	11:30:00 AM	1.96774	1.96766			N/A

5/3/2019	GBPNZD.fx	1:30:00 PM	1.96451	1.9645			N/A
5/3/2019	GBPNZD.fx	3:30:00 PM	1.96637	1.96424			N/A
5/3/2019	GBPPLN	9:30:00 AM	5.0029	5.0041			N/A
5/3/2019	GBPPLN	11:30:00 AM	4.9979	4.9985			N/A
5/3/2019	GBPPLN	1:30:00 PM	4.9954	4.9972			N/A
5/3/2019	GBPPLN	3:30:00 PM	4.9983	4.9964			N/A
5/3/2019	GBPPLN.fx	9:30:00 AM	5.00046	5.00654			N/A
5/3/2019	GBPPLN.fx	11:30:00 AM	4.99549	5.00104			N/A
5/3/2019	GBPPLN.fx	1:30:00 PM	4.99321	4.99938			N/A
5/3/2019	GBPPLN.fx	3:30:00 PM	4.99529	5.00022			N/A
5/3/2019	GBPSEK	9:30:00 AM	12.4819	12.4915			N/A
5/3/2019	GBPSEK	11:30:00 AM	12.4608	12.4676			N/A
5/3/2019	GBPSEK	1:30:00 PM	12.4696	12.4775			N/A
5/3/2019	GBPSEK	3:30:00 PM	12.4833	12.4817			N/A
5/3/2019	GBPSEK.fx	9:30:00 AM	12.47828	12.49499			N/A
5/3/2019	GBPSEK.fx	11:30:00 AM	12.4576	12.47197			N/A
5/3/2019	GBPSEK.fx	1:30:00 PM	12.46592	12.48125			N/A
5/3/2019	GBPSEK.fx	3:30:00 PM	12.47897	12.48862			N/A
5/3/2019	GBPSGD	9:30:00 AM	1.7766	1.7763			N/A
5/3/2019	GBPSGD	11:30:00 AM	1.7753	1.7758			N/A
5/3/2019	GBPSGD	1:30:00 PM	1.7723	1.7731			N/A
5/3/2019	GBPSGD	3:30:00 PM	1.7731	1.7722			N/A
5/3/2019	GBPSGD.fx	9:30:00 AM	1.77477	1.77927			N/A
5/3/2019	GBPSGD.fx	11:30:00 AM	1.77348	1.77771			N/A
5/3/2019	GBPSGD.fx	1:30:00 PM	1.77045	1.77485			N/A
5/3/2019	GBPSGD.fx	3:30:00 PM	1.77099	1.77461			N/A
5/3/2019	GBPUSD	9:30:00 AM	1.30344	1.3035			N/A
5/3/2019	GBPUSD	11:30:00 AM	1.30228	1.3022			N/A
5/3/2019	GBPUSD	1:30:00 PM	1.29957	1.2996	40	20500	N/A
5/3/2019	GBPUSD	3:30:00 PM	1.30034	1.29903			N/A
5/3/2019	GBPUSD.fx	9:30:00 AM	1.3035	1.30344			N/A
5/3/2019	GBPUSD.fx	11:30:00 AM	1.30234	1.30213			N/A
5/3/2019	GBPUSD.fx	1:30:00 PM	1.29963	1.29954			N/A
5/3/2019	GBPUSD.fx	3:30:00 PM	1.30034	1.29898			N/A

5/3/2019	GBPZAR	9:30:00 AM	18.9736	18.9996			N/A
5/3/2019	GBPZAR	11:30:00 AM	18.9413	18.966			N/A
5/3/2019	GBPZAR	1:30:00 PM	18.8868	18.9118			N/A
5/3/2019	GBPZAR	3:30:00 PM	18.8909	18.8628			N/A
5/3/2019	GBPZAR.fx	9:30:00 AM	18.9806	18.9917			N/A
5/3/2019	GBPZAR.fx	11:30:00 AM	18.9478	18.9619			N/A
5/3/2019	GBPZAR.fx	1:30:00 PM	18.8941	18.9048			N/A
5/3/2019	GBPZAR.fx	3:30:00 PM	18.8944	18.859			N/A
5/3/2019	GOLD	9:30:00 AM	1271.97	1272.28			N/A
5/3/2019	GOLD	11:30:00 AM	1269.84	1270.16			N/A
5/3/2019	GOLD	1:30:00 PM	1270.45	1270.81			N/A
5/3/2019	GOLD	3:30:00 PM	1271.94	1269.02			N/A
5/3/2019	HKDJPY	9:30:00 AM					N/A
5/3/2019	HKDJPY	11:30:00 AM	14.21	14.22			N/A
5/3/2019	HKDJPY	1:30:00 PM					N/A
5/3/2019	HKDJPY	3:30:00 PM	14.23	14.23			N/A
5/3/2019	HKDJPY.fx	9:30:00 AM	14.206	14.214			N/A
5/3/2019	HKDJPY.fx	11:30:00 AM	14.21	14.218			N/A
5/3/2019	HKDJPY.fx	1:30:00 PM	14.207	14.215			N/A
5/3/2019	HKDJPY.fx	3:30:00 PM	14.228	14.227			N/A
5/3/2019	HUFJPY	9:30:00 AM	0.3846	0.385			N/A
5/3/2019	HUFJPY	11:30:00 AM	0.3846	0.3849			N/A
5/3/2019	HUFJPY	1:30:00 PM	0.3844	0.3847			N/A
5/3/2019	HUFJPY	3:30:00 PM	0.3852	0.3855			N/A
5/3/2019	JP225.i	9:30:00 AM	22284.13	22299.13			N/A
5/3/2019	JP225.i	11:30:00 AM	22339.13	22351.63			N/A
5/3/2019	JP225.i	1:30:00 PM	22318.3	22334.13			N/A
5/3/2019	JP225.i	3:30:00 PM	22379.96	22374.13			N/A
5/3/2019	MXNJPY	9:30:00 AM	5.83	5.84			N/A
5/3/2019	MXNJPY	11:30:00 AM					N/A
5/3/2019	MXNJPY	1:30:00 PM					N/A
5/3/2019	MXNJPY	3:30:00 PM	5.83	5.83			N/A
5/3/2019	NASDAQ.i	9:30:00 AM					N/A
5/3/2019	NASDAQ.i	11:30:00 AM					N/A

5/3/2019	NASDAQ.i	1:30:00 PM					N/A
5/3/2019	NASDAQ.i	3:30:00 PM					N/A
5/3/2019	NOKJPY	9:30:00 AM	12.71	12.74			N/A
5/3/2019	NOKJPY	11:30:00 AM	12.71	12.74			N/A
5/3/2019	NOKJPY	1:30:00 PM	12.69	12.73			N/A
5/3/2019	NOKJPY	3:30:00 PM	12.71	12.73			N/A
5/3/2019	NOKJPY.fx	9:30:00 AM	12.715	12.72			N/A
5/3/2019	NOKJPY.fx	11:30:00 AM	12.716	12.724			N/A
5/3/2019	NOKJPY.fx	1:30:00 PM	12.711	12.718			N/A
5/3/2019	NOKJPY.fx	3:30:00 PM	12.712	12.715			N/A
5/3/2019	NZDCAD	9:30:00 AM	0.89103	0.89176			N/A
5/3/2019	NZDCAD	11:30:00 AM	0.89062	0.8913			N/A
5/3/2019	NZDCAD	1:30:00 PM	0.89061	0.89136			N/A
5/3/2019	NZDCAD	3:30:00 PM	0.89151	0.89128			N/A
5/3/2019	NZDCAD.fx	9:30:00 AM	0.89136	0.89142			N/A
5/3/2019	NZDCAD.fx	11:30:00 AM	0.89095	0.89097			N/A
5/3/2019	NZDCAD.fx	1:30:00 PM	0.89095	0.89102			N/A
5/3/2019	NZDCAD.fx	3:30:00 PM	0.89143	0.89099			N/A
5/3/2019	NZDCHF	9:30:00 AM	0.67491	0.67562			N/A
5/3/2019	NZDCHF	11:30:00 AM	0.67485	0.67556			N/A
5/3/2019	NZDCHF	1:30:00 PM	0.67487	0.67559			N/A
5/3/2019	NZDCHF	3:30:00 PM	0.67506	0.67516			N/A
5/3/2019	NZDCHF.fx	9:30:00 AM	0.67525	0.67527			N/A
5/3/2019	NZDCHF.fx	11:30:00 AM	0.67518	0.6752			N/A
5/3/2019	NZDCHF.fx	1:30:00 PM	0.67521	0.67524			N/A
5/3/2019	NZDCHF.fx	3:30:00 PM	0.67531	0.67483			N/A
5/3/2019	NZDCZK	9:30:00 AM	15.212	15.223			N/A
5/3/2019	NZDCZK	11:30:00 AM	15.213	15.225			N/A
5/3/2019	NZDCZK	1:30:00 PM	15.229	15.241			N/A
5/3/2019	NZDCZK	3:30:00 PM	15.243	15.241			N/A
5/3/2019	NZDDKK	9:30:00 AM					N/A
5/3/2019	NZDDKK	11:30:00 AM					N/A
5/3/2019	NZDDKK	1:30:00 PM	4.425	4.428			N/A
5/3/2019	NZDDKK	3:30:00 PM	4.427	4.428			N/A

5/3/2019	NZDHKD	9:30:00 AM					N/A
5/3/2019	NZDHKD	11:30:00 AM	5.1889	5.1914			N/A
5/3/2019	NZDHKD	1:30:00 PM	5.1863	5.1891			N/A
5/3/2019	NZDHKD	3:30:00 PM	5.1894	5.184			N/A
5/3/2019	NZDHUF	9:30:00 AM	191.83	192.08			N/A
5/3/2019	NZDHUF	11:30:00 AM	191.66	191.95			N/A
5/3/2019	NZDHUF	1:30:00 PM	191.71	191.98			N/A
5/3/2019	NZDHUF	3:30:00 PM	191.59	191.72			N/A
5/3/2019	NZDJPY	9:30:00 AM	73.76	73.83			N/A
5/3/2019	NZDJPY	11:30:00 AM	73.759	73.836			N/A
5/3/2019	NZDJPY	1:30:00 PM	73.717	73.791			N/A
5/3/2019	NZDJPY	3:30:00 PM	73.837	73.795			N/A
5/3/2019	NZDJPY.fx	9:30:00 AM	73.791	73.797			N/A
5/3/2019	NZDJPY.fx	11:30:00 AM	73.79	73.804			N/A
5/3/2019	NZDJPY.fx	1:30:00 PM	73.748	73.759			N/A
5/3/2019	NZDJPY.fx	3:30:00 PM	73.837	73.765			N/A
5/3/2019	NZDMXN	9:30:00 AM	12.6481	12.6533			N/A
5/3/2019	NZDMXN	11:30:00 AM	12.6463	12.652			N/A
5/3/2019	NZDMXN	1:30:00 PM	12.6434	12.6499			N/A
5/3/2019	NZDMXN	3:30:00 PM	12.6498	12.6476			N/A
5/3/2019	NZDNOK	9:30:00 AM	5.7978	5.7998			N/A
5/3/2019	NZDNOK	11:30:00 AM	5.7967	5.7997			N/A
5/3/2019	NZDNOK	1:30:00 PM	5.7968	5.8001			N/A
5/3/2019	NZDNOK	3:30:00 PM	5.8018	5.7983			N/A
5/3/2019	NZDPLN	9:30:00 AM	2.5395	2.5408			N/A
5/3/2019	NZDPLN	11:30:00 AM	2.5382	2.5396			N/A
5/3/2019	NZDPLN	1:30:00 PM	2.5418	2.5429			N/A
5/3/2019	NZDPLN	3:30:00 PM	2.5398	2.541			N/A
5/3/2019	NZDSEK	9:30:00 AM	6.335	6.3419			N/A
5/3/2019	NZDSEK	11:30:00 AM	6.3302	6.3358			N/A
5/3/2019	NZDSEK	1:30:00 PM	6.3436	6.3502			N/A
5/3/2019	NZDSEK	3:30:00 PM	6.3454	6.3461			N/A
5/3/2019	NZDSGD	9:30:00 AM	0.9021	0.9027			N/A
5/3/2019	NZDSGD	11:30:00 AM	0.902	0.9025			N/A

5/3/2019	NZDSGD	1:30:00 PM	0.9019	0.9025			N/A
5/3/2019	NZDSGD	3:30:00 PM	0.9026	0.9017			N/A
5/3/2019	NZDSGD.fx	9:30:00 AM	0.90213	0.90267			N/A
5/3/2019	NZDSGD.fx	11:30:00 AM	0.902	0.90265			N/A
5/3/2019	NZDSGD.fx	1:30:00 PM	0.90199	0.90262			N/A
5/3/2019	NZDSGD.fx	3:30:00 PM	0.90227	0.90167			N/A
5/3/2019	NZDUSD	9:30:00 AM	0.66182	0.66192			N/A
5/3/2019	NZDUSD	11:30:00 AM	0.66164	0.66183			N/A
5/3/2019	NZDUSD	1:30:00 PM	0.66138	0.66154			N/A
5/3/2019	NZDUSD	3:30:00 PM	0.66185	0.66069			N/A
5/3/2019	NZDUSD.fx	9:30:00 AM	0.66189	0.66194			N/A
5/3/2019	NZDUSD.fx	11:30:00 AM	0.66171	0.66185			N/A
5/3/2019	NZDUSD.fx	1:30:00 PM	0.66145	0.66155			N/A
5/3/2019	NZDUSD.fx	3:30:00 PM	0.66173	0.66072			N/A
5/3/2019	NZDZAR	9:30:00 AM	9.6254	9.6387			N/A
5/3/2019	NZDZAR	11:30:00 AM	9.6163	9.6297			N/A
5/3/2019	NZDZAR	1:30:00 PM	9.6057	9.6216			N/A
5/3/2019	NZDZAR	3:30:00 PM	9.5993	9.5962			N/A
5/3/2019	SEKJPY	9:30:00 AM	11.64	11.65			N/A
5/3/2019	SEKJPY	11:30:00 AM	11.65	11.66			N/A
5/3/2019	SEKJPY	1:30:00 PM	11.62	11.63			N/A
5/3/2019	SEKJPY	3:30:00 PM	11.63	11.63			N/A
5/3/2019	SEKJPY.fx	9:30:00 AM	11.628	11.647			N/A
5/3/2019	SEKJPY.fx	11:30:00 AM	11.64	11.659			N/A
5/3/2019	SEKJPY.fx	1:30:00 PM	11.606	11.625			N/A
5/3/2019	SEKJPY.fx	3:30:00 PM	11.611	11.625			N/A
5/3/2019	SGDJPY	9:30:00 AM	81.74	81.77			N/A
5/3/2019	SGDJPY	11:30:00 AM	81.81	81.8			N/A
5/3/2019	SGDJPY	1:30:00 PM	81.75	81.74			N/A
5/3/2019	SGDJPY	3:30:00 PM	81.84	81.81			N/A
5/3/2019	SILVER	9:30:00 AM	14.45	14.82			N/A
5/3/2019	SILVER	11:30:00 AM	14.43	14.81			N/A
5/3/2019	SILVER	1:30:00 PM	14.47	14.86			N/A
5/3/2019	SILVER	3:30:00 PM	14.48	14.84			N/A

5/3/2019	SPX500.i	9:30:00 AM	2921.79	2922.84			N/A
5/3/2019	SPX500.i	11:30:00 AM	2927.29	2928.34			N/A
5/3/2019	SPX500.i	1:30:00 PM	2925.29	2926.34			N/A
5/3/2019	SPX500.i	3:30:00 PM	2929.75	2926.8			N/A
5/3/2019	UK100.i	9:30:00 AM	7362.65	7363.49			N/A
5/3/2019	UK100.i	11:30:00 AM	7394.65	7395.82			N/A
5/3/2019	UK100.i	1:30:00 PM	7413.15	7415.15			N/A
5/3/2019	UK100.i	3:30:00 PM	7420	7412.5			N/A
5/3/2019	USDCAD	9:30:00 AM	1.34673	1.34676			N/A
5/3/2019	USDCAD	11:30:00 AM	1.34633	1.34633			N/A
5/3/2019	USDCAD	1:30:00 PM	1.34687	1.34701		1000	N/A
5/3/2019	USDCAD	3:30:00 PM	1.34885	1.3469	1000	1000	N/A
5/3/2019	USDCAD.fx	9:30:00 AM	1.34674	1.34673			N/A
5/3/2019	USDCAD.fx	11:30:00 AM	1.34637	1.34629			N/A
5/3/2019	USDCAD.fx	1:30:00 PM	1.34689	1.34697			N/A
5/3/2019	USDCAD.fx	3:30:00 PM	1.34876	1.34705			N/A
5/3/2019	USDCHF	9:30:00 AM	1.02014	1.02023			N/A
5/3/2019	USDCHF	11:30:00 AM	1.02023	1.02029			N/A
5/3/2019	USDCHF	1:30:00 PM	1.02067	1.0208			N/A
5/3/2019	USDCHF	3:30:00 PM	1.02137	1.01999			N/A
5/3/2019	USDCHF.fx	9:30:00 AM	1.02018	1.02018			N/A
5/3/2019	USDCHF.fx	11:30:00 AM	1.02028	1.02023			N/A
5/3/2019	USDCHF.fx	1:30:00 PM	1.02072	1.02073			N/A
5/3/2019	USDCHF.fx	3:30:00 PM	1.02141	1.02001			N/A
5/3/2019	USDCZK	9:30:00 AM	23.002	23.024			N/A
5/3/2019	USDCZK	11:30:00 AM	23.008	23.031			N/A
5/3/2019	USDCZK	1:30:00 PM	23.04	23.062			N/A
5/3/2019	USDCZK	3:30:00 PM	23.08	23.064			N/A
5/3/2019	USDCZK.fx	9:30:00 AM	23.0103	23.0164			N/A
5/3/2019	USDCZK.fx	11:30:00 AM	23.0168	23.022			N/A
5/3/2019	USDCZK.fx	1:30:00 PM	23.048	23.0528			N/A
5/3/2019	USDCZK.fx	3:30:00 PM	23.0876	23.0606			N/A
5/3/2019	USDDKK	9:30:00 AM	6.6848	6.6885			N/A
5/3/2019	USDDKK	11:30:00 AM	6.6858	6.6899			N/A

5/3/2019	USDDKK	1:30:00 PM	6.6907	6.6944			N/A
5/3/2019	USDDKK	3:30:00 PM	6.7027	6.6957			N/A
5/3/2019	USDDKK.fx	9:30:00 AM	6.68531	6.68654			N/A
5/3/2019	USDDKK.fx	11:30:00 AM	6.6863	6.68786			N/A
5/3/2019	USDDKK.fx	1:30:00 PM	6.69121	6.6923			N/A
5/3/2019	USDDKK.fx	3:30:00 PM	6.70349	6.69413			N/A
5/3/2019	USDHKD	9:30:00 AM	7.8444	7.8449			N/A
5/3/2019	USDHKD	11:30:00 AM	7.8446	7.8449			N/A
5/3/2019	USDHKD	1:30:00 PM	7.8445	7.8442			N/A
5/3/2019	USDHKD	3:30:00 PM	7.8448	7.845			N/A
5/3/2019	USDHKD.fx	9:30:00 AM	7.84459	7.84513			N/A
5/3/2019	USDHKD.fx	11:30:00 AM	7.84461	7.84513			N/A
5/3/2019	USDHKD.fx	1:30:00 PM	7.84461	7.84521			N/A
5/3/2019	USDHKD.fx	3:30:00 PM	7.84463	7.84526			N/A
5/3/2019	USDHUF	9:30:00 AM	290.02	290.47			N/A
5/3/2019	USDHUF	11:30:00 AM	289.88	290.36			N/A
5/3/2019	USDHUF	1:30:00 PM	289.94	290.4			N/A
5/3/2019	USDHUF	3:30:00 PM	290.16	290.12			N/A
5/3/2019	USDHUF.fx	9:30:00 AM	290.22	290.275			N/A
5/3/2019	USDHUF.fx	11:30:00 AM	290.105	290.137			N/A
5/3/2019	USDHUF.fx	1:30:00 PM	290.155	290.183			N/A
5/3/2019	USDHUF.fx	3:30:00 PM	290.352	289.926			N/A
5/3/2019	USDINR	9:30:00 AM	64.26	74.25			N/A
5/3/2019	USDINR	11:30:00 AM	64.26	74.23			N/A
5/3/2019	USDINR	1:30:00 PM					N/A
5/3/2019	USDINR	3:30:00 PM					N/A
5/3/2019	USDJPY	9:30:00 AM	111.475	111.491			N/A
5/3/2019	USDJPY	11:30:00 AM	111.501	111.517			N/A
5/3/2019	USDJPY	1:30:00 PM	111.483	111.499			N/A
5/3/2019	USDJPY	3:30:00 PM	111.686	111.538		200	N/A
5/3/2019	USDJPY.fx	9:30:00 AM	111.481	111.483			N/A
5/3/2019	USDJPY.fx	11:30:00 AM	111.507	111.51			N/A
5/3/2019	USDJPY.fx	1:30:00 PM	111.489	111.492			N/A
5/3/2019	USDJPY.fx	3:30:00 PM	111.683	111.551			N/A

5/3/2019	USDMXN	9:30:00 AM	19.118	19.124			N/A
5/3/2019	USDMXN	11:30:00 AM	19.118	19.125			N/A
5/3/2019	USDMXN	1:30:00 PM	19.122	19.13			N/A
5/3/2019	USDMXN	3:30:00 PM	19.173	19.125			N/A
5/3/2019	USDMXN.fx	9:30:00 AM	19.1225	19.1208			N/A
5/3/2019	USDMXN.fx	11:30:00 AM	19.1215	19.1232			N/A
5/3/2019	USDMXN.fx	1:30:00 PM	19.1254	19.1268			N/A
5/3/2019	USDMXN.fx	3:30:00 PM	19.1765	19.1234			N/A
5/3/2019	USDNOK	9:30:00 AM	8.7634	8.7707			N/A
5/3/2019	USDNOK	11:30:00 AM	8.7629	8.7714			N/A
5/3/2019	USDNOK	1:30:00 PM	8.7657	8.7736			N/A
5/3/2019	USDNOK	3:30:00 PM	8.78	8.7776			N/A
5/3/2019	USDNOK.fx	9:30:00 AM	8.76716	8.76573			N/A
5/3/2019	USDNOK.fx	11:30:00 AM	8.76708	8.76706			N/A
5/3/2019	USDNOK.fx	1:30:00 PM	8.76953	8.76923			N/A
5/3/2019	USDNOK.fx	3:30:00 PM	8.78346	8.77437			N/A
5/3/2019	USDPLN	9:30:00 AM	3.8382	3.8391			N/A
5/3/2019	USDPLN	11:30:00 AM	3.8376	3.8388			N/A
5/3/2019	USDPLN	1:30:00 PM	3.8439	3.8453			N/A
5/3/2019	USDPLN	3:30:00 PM	3.8475	3.8425			N/A
5/3/2019	USDPLN.fx	9:30:00 AM	3.83731	3.83991			N/A
5/3/2019	USDPLN.fx	11:30:00 AM	3.83679	3.83943			N/A
5/3/2019	USDPLN.fx	1:30:00 PM	3.84316	3.84601			N/A
5/3/2019	USDPLN.fx	3:30:00 PM	3.84618	3.84367			N/A
5/3/2019	USDRUB	9:30:00 AM					N/A
5/3/2019	USDRUB	11:30:00 AM	65.173	65.537			N/A
5/3/2019	USDRUB	1:30:00 PM	65.14	65.533			N/A
5/3/2019	USDRUB	3:30:00 PM	65.166	65.502			N/A
5/3/2019	USDSEK	9:30:00 AM	9.5778	9.582			N/A
5/3/2019	USDSEK	11:30:00 AM	9.5708	9.574			N/A
5/3/2019	USDSEK	1:30:00 PM	9.5963	9.6005			N/A
5/3/2019	USDSEK	3:30:00 PM	9.6093	9.5976			N/A
5/3/2019	USDSEK.fx	9:30:00 AM	9.58056	9.58009			N/A
5/3/2019	USDSEK.fx	11:30:00 AM	9.57338	9.57212			N/A

5/3/2019	USDSEK.fx	1:30:00 PM	9.59916	9.5986			N/A
5/3/2019	USDSEK.fx	3:30:00 PM	9.61222	9.6008			N/A
5/3/2019	USDSGD	9:30:00 AM	1.3631	1.3634			N/A
5/3/2019	USDSGD	11:30:00 AM	1.3633	1.3635			N/A
5/3/2019	USDSGD	1:30:00 PM	1.3637	1.3641			N/A
5/3/2019	USDSGD	3:30:00 PM	1.3641	1.3641			N/A
5/3/2019	USDSGD.fx	9:30:00 AM	1.36303	1.36353			N/A
5/3/2019	USDSGD.fx	11:30:00 AM	1.36319	1.36372			N/A
5/3/2019	USDSGD.fx	1:30:00 PM	1.36376	1.36428			N/A
5/3/2019	USDSGD.fx	3:30:00 PM	1.36401	1.36418			N/A
5/3/2019	USDZAR	9:30:00 AM	14.5552	14.5698			N/A
5/3/2019	USDZAR	11:30:00 AM	14.5434	14.5591			N/A
5/3/2019	USDZAR	1:30:00 PM	14.5305	14.5462			N/A
5/3/2019	USDZAR	3:30:00 PM	14.5355	14.5073			N/A
5/3/2019	USDZAR.fx	9:30:00 AM	14.56103	14.56322			N/A
5/3/2019	USDZAR.fx	11:30:00 AM	14.54811	14.55322			N/A
5/3/2019	USDZAR.fx	1:30:00 PM	14.53661	14.54001			N/A
5/3/2019	USDZAR.fx	3:30:00 PM	14.5365	14.50346			N/A
5/3/2019	XAUUSD	9:30:00 AM	1271.97	1272.27			N/A
5/3/2019	XAUUSD	11:30:00 AM	1269.83	1270.12			N/A
5/3/2019	XAUUSD	1:30:00 PM	1270.45	1270.81			N/A
5/3/2019	XAUUSD	3:30:00 PM	1271.91	1269.07			N/A
5/3/2019	ZARJPY	9:30:00 AM	7.64	7.65			N/A
5/3/2019	ZARJPY	11:30:00 AM	7.64	7.66			N/A
5/3/2019	ZARJPY	1:30:00 PM	7.65	7.67			N/A
5/3/2019	ZARJPY	3:30:00 PM	7.68	7.68			N/A
5/3/2019	ZARJPY.fx	9:30:00 AM	7.651	7.654			N/A
5/3/2019	ZARJPY.fx	11:30:00 AM	7.658	7.663			N/A
5/3/2019	ZARJPY.fx	1:30:00 PM	7.664	7.668			N/A
5/3/2019	ZARJPY.fx	3:30:00 PM	7.691	7.675			N/A
5/6/2019	#AA	9:30:00 AM					N/A
5/6/2019	#AA	11:30:00 AM					N/A
5/6/2019	#AA	1:30:00 PM					N/A
5/6/2019	#AA	3:30:00 PM					N/A

5/6/2019	#AABA	9:30:00 AM					N/A
5/6/2019	#AABA	11:30:00 AM					N/A
5/6/2019	#AABA	1:30:00 PM					N/A
5/6/2019	#AABA	3:30:00 PM					N/A
5/6/2019	#AAL	9:30:00 AM					N/A
5/6/2019	#AAL	11:30:00 AM					N/A
5/6/2019	#AAL	1:30:00 PM					N/A
5/6/2019	#AAL	3:30:00 PM					N/A
5/6/2019	#AAPL	9:30:00 AM					N/A
5/6/2019	#AAPL	11:30:00 AM					N/A
5/6/2019	#AAPL	1:30:00 PM					N/A
5/6/2019	#AAPL	3:30:00 PM					N/A
5/6/2019	#ADBE	9:30:00 AM					N/A
5/6/2019	#ADBE	11:30:00 AM					N/A
5/6/2019	#ADBE	1:30:00 PM					N/A
5/6/2019	#ADBE	3:30:00 PM					N/A
5/6/2019	#AIG	9:30:00 AM					N/A
5/6/2019	#AIG	11:30:00 AM					N/A
5/6/2019	#AIG	1:30:00 PM					N/A
5/6/2019	#AIG	3:30:00 PM					N/A
5/6/2019	#AMD	9:30:00 AM					N/A
5/6/2019	#AMD	11:30:00 AM					N/A
5/6/2019	#AMD	1:30:00 PM					N/A
5/6/2019	#AMD	3:30:00 PM					N/A
5/6/2019	#AMZN	9:30:00 AM					N/A
5/6/2019	#AMZN	11:30:00 AM					N/A
5/6/2019	#AMZN	1:30:00 PM					N/A
5/6/2019	#AMZN	3:30:00 PM					N/A
5/6/2019	#AXP	9:30:00 AM					N/A
5/6/2019	#AXP	11:30:00 AM					N/A
5/6/2019	#AXP	1:30:00 PM					N/A
5/6/2019	#AXP	3:30:00 PM					N/A
5/6/2019	#BA	9:30:00 AM					N/A
5/6/2019	#BA	11:30:00 AM					N/A

5/6/2019	#BA	1:30:00 PM					N/A
5/6/2019	#BA	3:30:00 PM					N/A
5/6/2019	#BABA	9:30:00 AM					N/A
5/6/2019	#BABA	11:30:00 AM					N/A
5/6/2019	#BABA	1:30:00 PM					N/A
5/6/2019	#BABA	3:30:00 PM					N/A
5/6/2019	#BAC	9:30:00 AM					N/A
5/6/2019	#BAC	11:30:00 AM					N/A
5/6/2019	#BAC	1:30:00 PM					N/A
5/6/2019	#BAC	3:30:00 PM					N/A
5/6/2019	#BARC	9:30:00 AM					N/A
5/6/2019	#BARC	11:30:00 AM					N/A
5/6/2019	#BARC	1:30:00 PM					N/A
5/6/2019	#BARC	3:30:00 PM					N/A
5/6/2019	#BHP	9:30:00 AM					N/A
5/6/2019	#BHP	11:30:00 AM					N/A
5/6/2019	#BHP	1:30:00 PM					N/A
5/6/2019	#BHP	3:30:00 PM					N/A
5/6/2019	#BIDU	9:30:00 AM					N/A
5/6/2019	#BIDU	11:30:00 AM					N/A
5/6/2019	#BIDU	1:30:00 PM					N/A
5/6/2019	#BIDU	3:30:00 PM					N/A
5/6/2019	#Bitcoin	9:30:00 AM	5909.85	5935.69			N/A
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5/6/2019	#UTX	3:30:00 PM					N/A
5/6/2019	#V	9:30:00 AM					N/A
5/6/2019	#V	11:30:00 AM					N/A
5/6/2019	#V	1:30:00 PM					N/A
5/6/2019	#V	3:30:00 PM					N/A

5/6/2019	#VOD	9:30:00 AM					N/A
5/6/2019	#VOD	11:30:00 AM					N/A
5/6/2019	#VOD	1:30:00 PM					N/A
5/6/2019	#VOD	3:30:00 PM					N/A
5/6/2019	#VZ	9:30:00 AM					N/A
5/6/2019	#VZ	11:30:00 AM					N/A
5/6/2019	#VZ	1:30:00 PM					N/A
5/6/2019	#VZ	3:30:00 PM					N/A
5/6/2019	#WDC	9:30:00 AM					N/A
5/6/2019	#WDC	11:30:00 AM					N/A
5/6/2019	#WDC	1:30:00 PM					N/A
5/6/2019	#WDC	3:30:00 PM					N/A
5/6/2019	#WFC	9:30:00 AM					N/A
5/6/2019	#WFC	11:30:00 AM					N/A
5/6/2019	#WFC	1:30:00 PM					N/A
5/6/2019	#WFC	3:30:00 PM					N/A
5/6/2019	#WMT	9:30:00 AM					N/A
5/6/2019	#WMT	11:30:00 AM					N/A
5/6/2019	#WMT	1:30:00 PM					N/A
5/6/2019	#WMT	3:30:00 PM					N/A
5/6/2019	#XOM	9:30:00 AM					N/A
5/6/2019	#XOM	11:30:00 AM					N/A
5/6/2019	#XOM	1:30:00 PM					N/A
5/6/2019	#XOM	3:30:00 PM					N/A
5/6/2019	#YHOO	9:30:00 AM					N/A
5/6/2019	#YHOO	11:30:00 AM					N/A
5/6/2019	#YHOO	1:30:00 PM					N/A
5/6/2019	#YHOO	3:30:00 PM					N/A
5/6/2019	#ZNGA	9:30:00 AM					N/A
5/6/2019	#ZNGA	11:30:00 AM					N/A
5/6/2019	#ZNGA	1:30:00 PM					N/A
5/6/2019	#ZNGA	3:30:00 PM					N/A
5/6/2019	AUDCAD	9:30:00 AM	0.94255	0.94318			N/A
5/6/2019	AUDCAD	11:30:00 AM	0.94164	0.94232			N/A

5/6/2019	AUDCAD	1:30:00 PM	0.94113	0.94184			N/A
5/6/2019	AUDCAD	3:30:00 PM	0.94172	0.94239			N/A
5/6/2019	AUDCAD.fx	9:30:00 AM	0.94287	0.94283			N/A
5/6/2019	AUDCAD.fx	11:30:00 AM	0.94199	0.94197			N/A
5/6/2019	AUDCAD.fx	1:30:00 PM	0.94146	0.94149			N/A
5/6/2019	AUDCAD.fx	3:30:00 PM	0.94206	0.94203			N/A
5/6/2019	AUDCHF	9:30:00 AM	0.70973	0.71036			N/A
5/6/2019	AUDCHF	11:30:00 AM	0.71079	0.71149			N/A
5/6/2019	AUDCHF	1:30:00 PM	0.71127	0.712			N/A
5/6/2019	AUDCHF	3:30:00 PM	0.71157	0.7122			N/A
5/6/2019	AUDCHF.fx	9:30:00 AM	0.71007	0.71001			N/A
5/6/2019	AUDCHF.fx	11:30:00 AM	0.71113	0.71114			N/A
5/6/2019	AUDCHF.fx	1:30:00 PM	0.71162	0.71164			N/A
5/6/2019	AUDCHF.fx	3:30:00 PM	0.71192	0.71185			N/A
5/6/2019	AUDCZK	9:30:00 AM	16.033	16.048			N/A
5/6/2019	AUDCZK	11:30:00 AM	16.046	16.063			N/A
5/6/2019	AUDCZK	1:30:00 PM	16.036	16.053			N/A
5/6/2019	AUDCZK	3:30:00 PM	16.034	16.049			N/A
5/6/2019	AUDDKK	9:30:00 AM	4.6598	4.6639			N/A
5/6/2019	AUDDKK	11:30:00 AM	4.6626	4.667			N/A
5/6/2019	AUDDKK	1:30:00 PM	4.6595	4.6643			N/A
5/6/2019	AUDDKK	3:30:00 PM	4.6595	4.6637			N/A
5/6/2019	AUDHKD	9:30:00 AM	5.4797	5.4836			N/A
5/6/2019	AUDHKD	11:30:00 AM	5.4826	5.4865			N/A
5/6/2019	AUDHKD	1:30:00 PM	5.4787	5.4824			N/A
5/6/2019	AUDHKD	3:30:00 PM	5.4815	5.4841			N/A
5/6/2019	AUDHUF	9:30:00 AM	201.72	201.94			N/A
5/6/2019	AUDHUF	11:30:00 AM	202.06	202.3			N/A
5/6/2019	AUDHUF	1:30:00 PM	201.73	201.96			N/A
5/6/2019	AUDHUF	3:30:00 PM	201.7	201.93			N/A
5/6/2019	AUDJPY	9:30:00 AM	77.356	77.415			N/A
5/6/2019	AUDJPY	11:30:00 AM	77.376	77.443			N/A
5/6/2019	AUDJPY	1:30:00 PM	77.356	77.424			N/A
5/6/2019	AUDJPY	3:30:00 PM	77.498	77.552			N/A

5/6/2019	AUDJPY.fx	9:30:00 AM	77.389	77.379			N/A
5/6/2019	AUDJPY.fx	11:30:00 AM	77.41	77.409			N/A
5/6/2019	AUDJPY.fx	1:30:00 PM	77.39	77.388			N/A
5/6/2019	AUDJPY.fx	3:30:00 PM	77.535	77.517			N/A
5/6/2019	AUDMXN	9:30:00 AM	13.3224	13.3318			N/A
5/6/2019	AUDMXN	11:30:00 AM	13.3059	13.3136			N/A
5/6/2019	AUDMXN	1:30:00 PM	13.2909	13.3			N/A
5/6/2019	AUDMXN	3:30:00 PM	13.3106	13.3177			N/A
5/6/2019	AUDNOK	9:30:00 AM	6.1115	6.1162			N/A
5/6/2019	AUDNOK	11:30:00 AM	6.119	6.1237			N/A
5/6/2019	AUDNOK	1:30:00 PM	6.1167	6.1218			N/A
5/6/2019	AUDNOK	3:30:00 PM	6.1111	6.1157			N/A
5/6/2019	AUDNOK.fx	9:30:00 AM	6.1134	6.1146			N/A
5/6/2019	AUDNOK.fx	11:30:00 AM	6.1205	6.1222			N/A
5/6/2019	AUDNOK.fx	1:30:00 PM	6.1181	6.1201			N/A
5/6/2019	AUDNOK.fx	3:30:00 PM	6.1127	6.114			N/A
5/6/2019	AUDNZD	9:30:00 AM	1.05444	1.05529			N/A
5/6/2019	AUDNZD	11:30:00 AM	1.05535	1.05623			N/A
5/6/2019	AUDNZD	1:30:00 PM	1.05586	1.05674			N/A
5/6/2019	AUDNZD	3:30:00 PM	1.05694	1.0578			N/A
5/6/2019	AUDNZD.fx	9:30:00 AM	1.05488	1.05483			N/A
5/6/2019	AUDNZD.fx	11:30:00 AM	1.0558	1.05578			N/A
5/6/2019	AUDNZD.fx	1:30:00 PM	1.05628	1.05628			N/A
5/6/2019	AUDNZD.fx	3:30:00 PM	1.05737	1.05736			N/A
5/6/2019	AUDPLN	9:30:00 AM	2.6737	2.6765			N/A
5/6/2019	AUDPLN	11:30:00 AM	2.6752	2.6773			N/A
5/6/2019	AUDPLN	1:30:00 PM	2.6726	2.6758			N/A
5/6/2019	AUDPLN	3:30:00 PM	2.6724	2.6752			N/A
5/6/2019	AUDSEK	9:30:00 AM	6.6895	6.6914			N/A
5/6/2019	AUDSEK	11:30:00 AM	6.6974	6.6991			N/A
5/6/2019	AUDSEK	1:30:00 PM	6.6974	6.7005			N/A
5/6/2019	AUDSEK	3:30:00 PM	6.6962	6.6982			N/A
5/6/2019	AUDSEK.fx	9:30:00 AM	6.6849	6.6957			N/A
5/6/2019	AUDSEK.fx	11:30:00 AM	6.6928	6.7037			N/A

5/6/2019	AUDSEK.fx	1:30:00 PM	6.6928	6.7051			N/A
5/6/2019	AUDSEK.fx	3:30:00 PM	6.6917	6.7027			N/A
5/6/2019	AUDSGD	9:30:00 AM	0.9529	0.9531			N/A
5/6/2019	AUDSGD	11:30:00 AM	0.9528	0.9531			N/A
5/6/2019	AUDSGD	1:30:00 PM	0.9524	0.9527			N/A
5/6/2019	AUDSGD	3:30:00 PM	0.9528	0.9531			N/A
5/6/2019	AUDSGD.fx	9:30:00 AM	0.95295	0.95296			N/A
5/6/2019	AUDSGD.fx	11:30:00 AM	0.95291	0.95301			N/A
5/6/2019	AUDSGD.fx	1:30:00 PM	0.95248	0.95259			N/A
5/6/2019	AUDSGD.fx	3:30:00 PM	0.95303	0.95303			N/A
5/6/2019	AUDUSD	9:30:00 AM	0.6988	0.69881			N/A
5/6/2019	AUDUSD	11:30:00 AM	0.69914	0.69922			N/A
5/6/2019	AUDUSD	1:30:00 PM	0.6986	0.69872	1000	1000	N/A
5/6/2019	AUDUSD	3:30:00 PM	0.69892	0.69889			N/A
5/6/2019	AUDUSD.fx	9:30:00 AM	0.69885	0.69876			N/A
5/6/2019	AUDUSD.fx	11:30:00 AM	0.69919	0.69916			N/A
5/6/2019	AUDUSD.fx	1:30:00 PM	0.69866	0.69866			N/A
5/6/2019	AUDUSD.fx	3:30:00 PM	0.69898	0.69884			N/A
5/6/2019	AUDZAR	9:30:00 AM	10.1027	10.1136			N/A
5/6/2019	AUDZAR	11:30:00 AM	10.1058	10.1193			N/A
5/6/2019	AUDZAR	1:30:00 PM	10.1084	10.122			N/A
5/6/2019	AUDZAR	3:30:00 PM	10.1312	10.145			N/A
5/6/2019	AUS200.i	9:30:00 AM					N/A
5/6/2019	AUS200.i	11:30:00 AM	6268.6	6272.1			N/A
5/6/2019	AUS200.i	1:30:00 PM	6273.1	6276.8			N/A
5/6/2019	AUS200.i	3:30:00 PM	6277.6	6280.6			N/A
5/6/2019	BCHUSD	9:30:00 AM					N/A
5/6/2019	BCHUSD	11:30:00 AM					N/A
5/6/2019	BCHUSD	1:30:00 PM	292.9	294.77			N/A
5/6/2019	BCHUSD	3:30:00 PM	292.4	294.04			N/A
5/6/2019	CADCHF	9:30:00 AM	0.75274	0.75342			N/A
5/6/2019	CADCHF	11:30:00 AM	0.75459	0.75524			N/A
5/6/2019	CADCHF	1:30:00 PM	0.75549	0.75621			N/A
5/6/2019	CADCHF	3:30:00 PM	0.75535	0.75598			N/A

5/6/2019	CADCHF.fx	9:30:00 AM	0.75308	0.75307			N/A
5/6/2019	CADCHF.fx	11:30:00 AM	0.75493	0.75488			N/A
5/6/2019	CADCHF.fx	1:30:00 PM	0.75583	0.75586			N/A
5/6/2019	CADCHF.fx	3:30:00 PM	0.75569	0.75563			N/A
5/6/2019	CADCZK	9:30:00 AM	17.008	17.024			N/A
5/6/2019	CADCZK	11:30:00 AM	17.038	17.053			N/A
5/6/2019	CADCZK	1:30:00 PM	17.035	17.052			N/A
5/6/2019	CADCZK	3:30:00 PM	17.022	17.039			N/A
5/6/2019	CADDDKK	9:30:00 AM	4.943	4.947			N/A
5/6/2019	CADDDKK	11:30:00 AM	4.951	4.955			N/A
5/6/2019	CADDDKK	1:30:00 PM					N/A
5/6/2019	CADDDKK	3:30:00 PM	4.948	4.951			N/A
5/6/2019	CADHKD	9:30:00 AM	5.8129	5.8166			N/A
5/6/2019	CADHKD	11:30:00 AM	5.8215	5.8252			N/A
5/6/2019	CADHKD	1:30:00 PM	5.8201	5.8237			N/A
5/6/2019	CADHKD	3:30:00 PM	5.8197	5.8227			N/A
5/6/2019	CADHUF	9:30:00 AM	214.01	214.17			N/A
5/6/2019	CADHUF	11:30:00 AM	214.59	214.75			N/A
5/6/2019	CADHUF	1:30:00 PM	214.34	214.49			N/A
5/6/2019	CADHUF	3:30:00 PM	214.18	214.34			N/A
5/6/2019	CADJPY	9:30:00 AM	82.041	82.11			N/A
5/6/2019	CADJPY	11:30:00 AM	82.145	82.207			N/A
5/6/2019	CADJPY	1:30:00 PM	82.164	82.232			N/A
5/6/2019	CADJPY	3:30:00 PM	82.264	82.321			N/A
5/6/2019	CADJPY.fx	9:30:00 AM	82.075	82.075			N/A
5/6/2019	CADJPY.fx	11:30:00 AM	82.179	82.17			N/A
5/6/2019	CADJPY.fx	1:30:00 PM	82.197	82.197			N/A
5/6/2019	CADJPY.fx	3:30:00 PM	82.302	82.287			N/A
5/6/2019	CADMXN	9:30:00 AM	14.1303	14.1431			N/A
5/6/2019	CADMXN	11:30:00 AM	14.1263	14.1372			N/A
5/6/2019	CADMXN	1:30:00 PM	14.1187	14.1293			N/A
5/6/2019	CADMXN	3:30:00 PM	14.131	14.1383			N/A
5/6/2019	CADNOK	9:30:00 AM	6.483	6.486			N/A
5/6/2019	CADNOK	11:30:00 AM	6.4952	6.5			N/A

5/6/2019	CADNOK	1:30:00 PM	6.4957	6.5001			N/A
5/6/2019	CADNOK	3:30:00 PM	6.4863	6.4907			N/A
5/6/2019	CADPLN	9:30:00 AM	2.8358	2.8376			N/A
5/6/2019	CADPLN	11:30:00 AM	2.8394	2.8413			N/A
5/6/2019	CADPLN	1:30:00 PM	2.8392	2.8408			N/A
5/6/2019	CADPLN	3:30:00 PM	2.8373	2.8392			N/A
5/6/2019	CADSEK	9:30:00 AM	7.0932	7.0962			N/A
5/6/2019	CADSEK	11:30:00 AM	7.1073	7.1109			N/A
5/6/2019	CADSEK	1:30:00 PM	7.1121	7.1154			N/A
5/6/2019	CADSEK	3:30:00 PM	7.1068	7.1095			N/A
5/6/2019	CADSGD	9:30:00 AM	1.0103	1.0107			N/A
5/6/2019	CADSGD	11:30:00 AM	1.0111	1.0114			N/A
5/6/2019	CADSGD	1:30:00 PM	1.011	1.0113			N/A
5/6/2019	CADSGD	3:30:00 PM	1.011	1.0113			N/A
5/6/2019	CADZAR	9:30:00 AM	10.7168	10.7292			N/A
5/6/2019	CADZAR	11:30:00 AM	10.7296	10.7457			N/A
5/6/2019	CADZAR	1:30:00 PM	10.7377	10.753			N/A
5/6/2019	CADZAR	3:30:00 PM	10.7559	10.7719			N/A
5/6/2019	CHFCZK	9:30:00 AM	22.587	22.605			N/A
5/6/2019	CHFCZK	11:30:00 AM	22.573	22.59			N/A
5/6/2019	CHFCZK	1:30:00 PM	22.542	22.558			N/A
5/6/2019	CHFCZK	3:30:00 PM	22.53	22.548			N/A
5/6/2019	CHFDKK	9:30:00 AM	6.564	6.567			N/A
5/6/2019	CHFDKK	11:30:00 AM					N/A
5/6/2019	CHFDKK	1:30:00 PM					N/A
5/6/2019	CHFDKK	3:30:00 PM	6.547	6.55			N/A
5/6/2019	CHFDKK.fx	9:30:00 AM	6.5626	6.5686			N/A
5/6/2019	CHFDKK.fx	11:30:00 AM	6.5566	6.5628			N/A
5/6/2019	CHFDKK.fx	1:30:00 PM	6.5479	6.554			N/A
5/6/2019	CHFDKK.fx	3:30:00 PM	6.545	6.5513			N/A
5/6/2019	CHFHKD	9:30:00 AM	7.7196	7.7235			N/A
5/6/2019	CHFHKD	11:30:00 AM	7.7119	7.7158			N/A
5/6/2019	CHFHKD	1:30:00 PM	7.7009	7.7048			N/A
5/6/2019	CHFHKD	3:30:00 PM	7.701	7.7049			N/A

5/6/2019	CHFHUF	9:30:00 AM	284.1	284.5			N/A
5/6/2019	CHFHUF	11:30:00 AM	284.18	284.54			N/A
5/6/2019	CHFHUF	1:30:00 PM	283.5	283.87			N/A
5/6/2019	CHFHUF	3:30:00 PM	283.37	283.74			N/A
5/6/2019	CHFJPY	9:30:00 AM	108.951	109.021			N/A
5/6/2019	CHFJPY	11:30:00 AM	108.817	108.878			N/A
5/6/2019	CHFJPY	1:30:00 PM	108.72	108.779			N/A
5/6/2019	CHFJPY	3:30:00 PM	108.868	108.934			N/A
5/6/2019	CHFJPY.fx	9:30:00 AM	108.983	108.987			N/A
5/6/2019	CHFJPY.fx	11:30:00 AM	108.851	108.843			N/A
5/6/2019	CHFJPY.fx	1:30:00 PM	108.753	108.744			N/A
5/6/2019	CHFJPY.fx	3:30:00 PM	108.901	108.899			N/A
5/6/2019	CHFMXN	9:30:00 AM	18.7645	18.7822			N/A
5/6/2019	CHFMXN	11:30:00 AM	18.7126	18.728			N/A
5/6/2019	CHFMXN	1:30:00 PM	18.6797	18.6946			N/A
5/6/2019	CHFMXN	3:30:00 PM	18.7015	18.71			N/A
5/6/2019	CHFNOK	9:30:00 AM	8.607	8.6148			N/A
5/6/2019	CHFNOK	11:30:00 AM	8.6043	8.6113			N/A
5/6/2019	CHFNOK	1:30:00 PM	8.5949	8.6025			N/A
5/6/2019	CHFNOK	3:30:00 PM	8.5843	8.5901			N/A
5/6/2019	CHFNOK.fx	9:30:00 AM	8.61054	8.61147			N/A
5/6/2019	CHFNOK.fx	11:30:00 AM	8.60764	8.6079			N/A
5/6/2019	CHFNOK.fx	1:30:00 PM	8.59836	8.59894			N/A
5/6/2019	CHFNOK.fx	3:30:00 PM	8.58785	8.58658			N/A
5/6/2019	CHFPLN	9:30:00 AM	3.7663	3.7686			N/A
5/6/2019	CHFPLN	11:30:00 AM	3.7624	3.7641			N/A
5/6/2019	CHFPLN	1:30:00 PM	3.7562	3.7592			N/A
5/6/2019	CHFPLN	3:30:00 PM	3.7543	3.7575			N/A
5/6/2019	CHFPLN.fx	9:30:00 AM	3.7638	3.77105			N/A
5/6/2019	CHFPLN.fx	11:30:00 AM	3.75991	3.76643			N/A
5/6/2019	CHFPLN.fx	1:30:00 PM	3.75376	3.76135			N/A
5/6/2019	CHFPLN.fx	3:30:00 PM	3.75196	3.75975			N/A
5/6/2019	CHFSEK	9:30:00 AM	9.4201	9.4231			N/A
5/6/2019	CHFSEK	11:30:00 AM	9.4166	9.4192			N/A

5/6/2019	CHFSEK	1:30:00 PM	9.4098	9.4139			N/A
5/6/2019	CHFSEK	3:30:00 PM	9.4056	9.4087			N/A
5/6/2019	CHFSGD	9:30:00 AM	1.3419	1.3424			N/A
5/6/2019	CHFSGD	11:30:00 AM	1.3398	1.3402			N/A
5/6/2019	CHFSGD	1:30:00 PM	1.3383	1.3388			N/A
5/6/2019	CHFSGD	3:30:00 PM	1.3385	1.339			N/A
5/6/2019	CHFSGD.fx	9:30:00 AM	1.34213	1.34215			N/A
5/6/2019	CHFSGD.fx	11:30:00 AM	1.34002	1.33997			N/A
5/6/2019	CHFSGD.fx	1:30:00 PM	1.33848	1.33855			N/A
5/6/2019	CHFSGD.fx	3:30:00 PM	1.33873	1.33877			N/A
5/6/2019	CHFZAR	9:30:00 AM	14.2343	14.2426			N/A
5/6/2019	CHFZAR	11:30:00 AM	14.2181	14.2302			N/A
5/6/2019	CHFZAR	1:30:00 PM	14.2118	14.2233			N/A
5/6/2019	CHFZAR	3:30:00 PM	14.2386	14.2483			N/A
5/6/2019	CZKJPY	9:30:00 AM					N/A
5/6/2019	CZKJPY	11:30:00 AM	4.82	4.823			N/A
5/6/2019	CZKJPY	1:30:00 PM	4.822	4.825			N/A
5/6/2019	CZKJPY	3:30:00 PM					N/A
5/6/2019	DAX30.i	9:30:00 AM					N/A
5/6/2019	DAX30.i	11:30:00 AM					N/A
5/6/2019	DAX30.i	1:30:00 PM					N/A
5/6/2019	DAX30.i	3:30:00 PM					N/A
5/6/2019	DJ30.i	9:30:00 AM					N/A
5/6/2019	DJ30.i	11:30:00 AM					N/A
5/6/2019	DJ30.i	1:30:00 PM					N/A
5/6/2019	DJ30.i	3:30:00 PM					N/A
5/6/2019	DKKJPY	9:30:00 AM					N/A
5/6/2019	DKKJPY	11:30:00 AM	16.59	16.61			N/A
5/6/2019	DKKJPY	1:30:00 PM					N/A
5/6/2019	DKKJPY	3:30:00 PM					N/A
5/6/2019	EURAUD	9:30:00 AM	1.60081	1.601			N/A
5/6/2019	EURAUD	11:30:00 AM	1.5997	1.60012			N/A
5/6/2019	EURAUD	1:30:00 PM	1.60071	1.60115			N/A
5/6/2019	EURAUD	3:30:00 PM	1.60097	1.60119			N/A

5/6/2019	EURAUD.fx	9:30:00 AM	1.60101	1.60078			N/A
5/6/2019	EURAUD.fx	11:30:00 AM	1.59991	1.59991			N/A
5/6/2019	EURAUD.fx	1:30:00 PM	1.60091	1.60092			N/A
5/6/2019	EURAUD.fx	3:30:00 PM	1.60118	1.60097			N/A
5/6/2019	EURCAD	9:30:00 AM	1.50957	1.51028			N/A
5/6/2019	EURCAD	11:30:00 AM	1.50731	1.50808			N/A
5/6/2019	EURCAD	1:30:00 PM	1.50743	1.5083			N/A
5/6/2019	EURCAD	3:30:00 PM	1.50853	1.50922			N/A
5/6/2019	EURCAD.fx	9:30:00 AM	1.50999	1.50986			N/A
5/6/2019	EURCAD.fx	11:30:00 AM	1.50775	1.50766			N/A
5/6/2019	EURCAD.fx	1:30:00 PM	1.50785	1.50788			N/A
5/6/2019	EURCAD.fx	3:30:00 PM	1.50894	1.50879			N/A
5/6/2019	EURCHF	9:30:00 AM	1.13705	1.13717			N/A
5/6/2019	EURCHF	11:30:00 AM	1.13813	1.13823			N/A
5/6/2019	EURCHF	1:30:00 PM	1.13965	1.13977			N/A
5/6/2019	EURCHF	3:30:00 PM	1.14015	1.14026			N/A
5/6/2019	EURCHF.fx	9:30:00 AM	1.13711	1.13711			N/A
5/6/2019	EURCHF.fx	11:30:00 AM	1.13818	1.13816			N/A
5/6/2019	EURCHF.fx	1:30:00 PM	1.13971	1.13971			N/A
5/6/2019	EURCHF.fx	3:30:00 PM	1.14021	1.1402			N/A
5/6/2019	EURCZK	9:30:00 AM	25.672	25.711			N/A
5/6/2019	EURCZK	11:30:00 AM					N/A
5/6/2019	EURCZK	1:30:00 PM	25.678	25.717			N/A
5/6/2019	EURCZK	3:30:00 PM	25.675	25.715			N/A
5/6/2019	EURDKK	9:30:00 AM	7.4637	7.465			N/A
5/6/2019	EURDKK	11:30:00 AM	7.4648	7.4657			N/A
5/6/2019	EURDKK	1:30:00 PM	7.4643	7.4655			N/A
5/6/2019	EURDKK	3:30:00 PM	7.4655	7.4662			N/A
5/6/2019	EURGBP	9:30:00 AM	0.85312	0.85319			N/A
5/6/2019	EURGBP	11:30:00 AM	0.85323	0.85317			N/A
5/6/2019	EURGBP	1:30:00 PM	0.85378	0.85386			N/A
5/6/2019	EURGBP	3:30:00 PM	0.85477	0.85484			N/A
5/6/2019	EURGBP.fx	9:30:00 AM	0.85316	0.85313			N/A
5/6/2019	EURGBP.fx	11:30:00 AM	0.85324	0.85311			N/A

5/6/2019	EURGBP.fx	1:30:00 PM	0.85381	0.85379			N/A
5/6/2019	EURGBP.fx	3:30:00 PM	0.8548	0.85479			N/A
5/6/2019	EURHKD	9:30:00 AM	8.778	8.7828			N/A
5/6/2019	EURHKD	11:30:00 AM	8.7779	8.7818			N/A
5/6/2019	EURHKD	1:30:00 PM	8.7774	8.7823			N/A
5/6/2019	EURHKD	3:30:00 PM	8.7811	8.7858			N/A
5/6/2019	EURHKD.fx	9:30:00 AM	8.78083	8.78			N/A
5/6/2019	EURHKD.fx	11:30:00 AM	8.78076	8.77891			N/A
5/6/2019	EURHKD.fx	1:30:00 PM	8.78028	8.77941			N/A
5/6/2019	EURHKD.fx	3:30:00 PM	8.78391	8.78306			N/A
5/6/2019	EURHUF	9:30:00 AM	323.03	323.76			N/A
5/6/2019	EURHUF	11:30:00 AM	323.42	324.08			N/A
5/6/2019	EURHUF	1:30:00 PM	323.06	323.76			N/A
5/6/2019	EURHUF	3:30:00 PM	323.06	323.71			N/A
5/6/2019	EURHUF.fx	9:30:00 AM	323.299	323.494			N/A
5/6/2019	EURHUF.fx	11:30:00 AM	323.681	323.832			N/A
5/6/2019	EURHUF.fx	1:30:00 PM	323.319	323.526			N/A
5/6/2019	EURHUF.fx	3:30:00 PM	323.337	323.518			N/A
5/6/2019	EURJPY	9:30:00 AM	123.926	123.932			N/A
5/6/2019	EURJPY	11:30:00 AM	123.893	123.888			N/A
5/6/2019	EURJPY	1:30:00 PM	123.942	123.944			N/A
5/6/2019	EURJPY	3:30:00 PM	124.167	124.167			N/A
5/6/2019	EURJPY.fx	9:30:00 AM	123.93	123.928			N/A
5/6/2019	EURJPY.fx	11:30:00 AM	123.895	123.884			N/A
5/6/2019	EURJPY.fx	1:30:00 PM	123.945	123.939			N/A
5/6/2019	EURJPY.fx	3:30:00 PM	124.175	124.163			N/A
5/6/2019	EURMXN	9:30:00 AM	21.3397	21.3588			N/A
5/6/2019	EURMXN	11:30:00 AM	21.301	21.319			N/A
5/6/2019	EURMXN	1:30:00 PM	21.2926	21.3105			N/A
5/6/2019	EURMXN	3:30:00 PM	21.3258	21.3353			N/A
5/6/2019	EURMXN.fx	9:30:00 AM	21.3486	21.3502			N/A
5/6/2019	EURMXN.fx	11:30:00 AM	21.31	21.3096			N/A
5/6/2019	EURMXN.fx	1:30:00 PM	21.3008	21.3022			N/A
5/6/2019	EURMXN.fx	3:30:00 PM	21.3355	21.3263			N/A

5/6/2019	EURNOK	9:30:00 AM	9.7853	9.7974			N/A
5/6/2019	EURNOK	11:30:00 AM	9.7917	9.8027			N/A
5/6/2019	EURNOK	1:30:00 PM	9.7942	9.8062			N/A
5/6/2019	EURNOK	3:30:00 PM	9.7865	9.7964			N/A
5/6/2019	EURNOK.fx	9:30:00 AM	9.79089	9.7917			N/A
5/6/2019	EURNOK.fx	11:30:00 AM	9.79731	9.7973			N/A
5/6/2019	EURNOK.fx	1:30:00 PM	9.7996	9.80066			N/A
5/6/2019	EURNOK.fx	3:30:00 PM	9.79191	9.79096			N/A
5/6/2019	EURNZD	9:30:00 AM	1.68899	1.68975			N/A
5/6/2019	EURNZD	11:30:00 AM	1.68944	1.69027			N/A
5/6/2019	EURNZD	1:30:00 PM	1.69132	1.69206			N/A
5/6/2019	EURNZD	3:30:00 PM	1.69322	1.69386			N/A
5/6/2019	EURNZD.fx	9:30:00 AM	1.68941	1.68933			N/A
5/6/2019	EURNZD.fx	11:30:00 AM	1.68988	1.68983			N/A
5/6/2019	EURNZD.fx	1:30:00 PM	1.69176	1.69164			N/A
5/6/2019	EURNZD.fx	3:30:00 PM	1.69365	1.69344			N/A
5/6/2019	EURPLN	9:30:00 AM	4.2831	4.2854			N/A
5/6/2019	EURPLN	11:30:00 AM	4.2825	4.2842			N/A
5/6/2019	EURPLN	1:30:00 PM	4.2812	4.2831			N/A
5/6/2019	EURPLN	3:30:00 PM	4.2809	4.284			N/A
5/6/2019	EURPLN.fx	9:30:00 AM	4.28247	4.28599			N/A
5/6/2019	EURPLN.fx	11:30:00 AM	4.28167	4.28482			N/A
5/6/2019	EURPLN.fx	1:30:00 PM	4.28037	4.28502			N/A
5/6/2019	EURPLN.fx	3:30:00 PM	4.28027	4.28472			N/A
5/6/2019	EURRUB	9:30:00 AM					N/A
5/6/2019	EURRUB	11:30:00 AM	72.636	73.074			N/A
5/6/2019	EURRUB	1:30:00 PM	72.541	72.982			N/A
5/6/2019	EURRUB	3:30:00 PM	72.61	73.047			N/A
5/6/2019	EURSEK	9:30:00 AM	10.714	10.7164			N/A
5/6/2019	EURSEK	11:30:00 AM	10.7197	10.7212			N/A
5/6/2019	EURSEK	1:30:00 PM	10.7262	10.731			N/A
5/6/2019	EURSEK	3:30:00 PM	10.7262	10.7286			N/A
5/6/2019	EURSEK.fx	9:30:00 AM	10.71603	10.71466			N/A
5/6/2019	EURSEK.fx	11:30:00 AM	10.72153	10.71952			N/A

5/6/2019	EURSEK.fx	1:30:00 PM	10.72786	10.72929			N/A
5/6/2019	EURSEK.fx	3:30:00 PM	10.72779	10.72676			N/A
5/6/2019	EURSGD	9:30:00 AM	1.5258	1.5266			N/A
5/6/2019	EURSGD	11:30:00 AM	1.5249	1.5256			N/A
5/6/2019	EURSGD	1:30:00 PM	1.5252	1.526			N/A
5/6/2019	EURSGD	3:30:00 PM	1.526	1.5269			N/A
5/6/2019	EURSGD.fx	9:30:00 AM	1.52618	1.52613			N/A
5/6/2019	EURSGD.fx	11:30:00 AM	1.52527	1.52517			N/A
5/6/2019	EURSGD.fx	1:30:00 PM	1.52551	1.52557			N/A
5/6/2019	EURSGD.fx	3:30:00 PM	1.52641	1.52647			N/A
5/6/2019	EURUSD	9:30:00 AM	1.11894	1.119			N/A
5/6/2019	EURUSD	11:30:00 AM	1.1189	1.11885			N/A
5/6/2019	EURUSD	1:30:00 PM	1.11879	1.11886			N/A
5/6/2019	EURUSD	3:30:00 PM	1.11924	1.11929			N/A
5/6/2019	EURUSD.fx	9:30:00 AM	1.11915	1.11909			N/A
5/6/2019	EURUSD.fx	11:30:00 AM	1.11911	1.11894			N/A
5/6/2019	EURUSD.fx	1:30:00 PM	1.11899	1.11895			N/A
5/6/2019	EURUSD.fx	3:30:00 PM	1.11943	1.11938			N/A
5/6/2019	EURZAR	9:30:00 AM	16.187	16.2008			N/A
5/6/2019	EURZAR	11:30:00 AM	16.1849	16.2024			N/A
5/6/2019	EURZAR	1:30:00 PM	16.1993	16.2173			N/A
5/6/2019	EURZAR	3:30:00 PM	16.2372	16.2526			N/A
5/6/2019	EURZAR.fx	9:30:00 AM	16.1862	16.20273			N/A
5/6/2019	EURZAR.fx	11:30:00 AM	16.18443	16.2029			N/A
5/6/2019	EURZAR.fx	1:30:00 PM	16.19798	16.21857			N/A
5/6/2019	EURZAR.fx	3:30:00 PM	16.23714	16.25268			N/A
5/6/2019	GBPAUD	9:30:00 AM	1.87679	1.87729			N/A
5/6/2019	GBPAUD	11:30:00 AM	1.87575	1.87612			N/A
5/6/2019	GBPAUD	1:30:00 PM	1.8754	1.87611			N/A
5/6/2019	GBPAUD	3:30:00 PM	1.87355	1.874			N/A
5/6/2019	GBPAUD.fx	9:30:00 AM	1.87718	1.87688			N/A
5/6/2019	GBPAUD.fx	11:30:00 AM	1.87615	1.87572			N/A
5/6/2019	GBPAUD.fx	1:30:00 PM	1.87581	1.87573			N/A
5/6/2019	GBPAUD.fx	3:30:00 PM	1.87394	1.87361			N/A

5/6/2019	GBPCAD	9:30:00 AM	1.76954	1.77017			N/A
5/6/2019	GBPCAD	11:30:00 AM	1.76692	1.76736			N/A
5/6/2019	GBPCAD	1:30:00 PM	1.76571	1.76642			N/A
5/6/2019	GBPCAD	3:30:00 PM	1.76486	1.76548			N/A
5/6/2019	GBPCAD.fx	9:30:00 AM	1.76995	1.76976			N/A
5/6/2019	GBPCAD.fx	11:30:00 AM	1.76731	1.76699			N/A
5/6/2019	GBPCAD.fx	1:30:00 PM	1.76608	1.76602			N/A
5/6/2019	GBPCAD.fx	3:30:00 PM	1.76526	1.76508			N/A
5/6/2019	GBPCHF	9:30:00 AM	1.33271	1.33307			N/A
5/6/2019	GBPCHF	11:30:00 AM	1.33394	1.33415			N/A
5/6/2019	GBPCHF	1:30:00 PM	1.3347	1.33507			N/A
5/6/2019	GBPCHF	3:30:00 PM	1.33369	1.3341			N/A
5/6/2019	GBPCHF.fx	9:30:00 AM	1.3329	1.33287			N/A
5/6/2019	GBPCHF.fx	11:30:00 AM	1.33412	1.33397			N/A
5/6/2019	GBPCHF.fx	1:30:00 PM	1.3349	1.33486			N/A
5/6/2019	GBPCHF.fx	3:30:00 PM	1.33387	1.3339			N/A
5/6/2019	GBPCZK	9:30:00 AM	30.103	30.123			N/A
5/6/2019	GBPCZK	11:30:00 AM	30.11	30.127			N/A
5/6/2019	GBPCZK	1:30:00 PM	30.086	30.108			N/A
5/6/2019	GBPCZK	3:30:00 PM	30.048	30.07			N/A
5/6/2019	GBPDKK	9:30:00 AM	8.746	8.757			N/A
5/6/2019	GBPDKK	11:30:00 AM	8.747	8.756			N/A
5/6/2019	GBPDKK	1:30:00 PM	8.74	8.751			N/A
5/6/2019	GBPDKK	3:30:00 PM	8.729	8.741			N/A
5/6/2019	GBPDKK.fx	9:30:00 AM	8.7448	8.7573			N/A
5/6/2019	GBPDKK.fx	11:30:00 AM	8.7451	8.7566			N/A
5/6/2019	GBPDKK.fx	1:30:00 PM	8.7385	8.7513			N/A
5/6/2019	GBPDKK.fx	3:30:00 PM	8.7281	8.7409			N/A
5/6/2019	GBPHKD	9:30:00 AM	10.2874	10.292			N/A
5/6/2019	GBPHKD	11:30:00 AM	10.2873	10.2892			N/A
5/6/2019	GBPHKD	1:30:00 PM	10.2783	10.2829			N/A
5/6/2019	GBPHKD	3:30:00 PM	10.2705	10.2756			N/A
5/6/2019	GBPHUF	9:30:00 AM	378.64	379.07			N/A
5/6/2019	GBPHUF	11:30:00 AM	379.1	379.45			N/A

5/6/2019	GBPHUF	1:30:00 PM	378.39	378.86			N/A
5/6/2019	GBPHUF	3:30:00 PM	377.93	378.39			N/A
5/6/2019	GBPJPY	9:30:00 AM	145.243	145.282			N/A
5/6/2019	GBPJPY	11:30:00 AM	145.206	145.211			N/A
5/6/2019	GBPJPY	1:30:00 PM	145.142	145.185			N/A
5/6/2019	GBPJPY	3:30:00 PM	145.247	145.276			N/A
5/6/2019	GBPJPY.fx	9:30:00 AM	145.263	145.262			N/A
5/6/2019	GBPJPY.fx	11:30:00 AM	145.228	145.19			N/A
5/6/2019	GBPJPY.fx	1:30:00 PM	145.163	145.164			N/A
5/6/2019	GBPJPY.fx	3:30:00 PM	145.267	145.256			N/A
5/6/2019	GBPMXN	9:30:00 AM	25.0112	25.0241			N/A
5/6/2019	GBPMXN	11:30:00 AM	24.9625	24.973			N/A
5/6/2019	GBPMXN	1:30:00 PM	24.9333	24.9483			N/A
5/6/2019	GBPMXN	3:30:00 PM	24.9451	24.9484			N/A
5/6/2019	GBPNOK	9:30:00 AM	11.4715	11.482			N/A
5/6/2019	GBPNOK	11:30:00 AM	11.4791	11.4876			N/A
5/6/2019	GBPNOK	1:30:00 PM	11.472	11.4835			N/A
5/6/2019	GBPNOK	3:30:00 PM	11.4507	11.4589			N/A
5/6/2019	GBPNOK.fx	9:30:00 AM	11.47659	11.47707			N/A
5/6/2019	GBPNOK.fx	11:30:00 AM	11.48412	11.48254			N/A
5/6/2019	GBPNOK.fx	1:30:00 PM	11.47701	11.47843			N/A
5/6/2019	GBPNOK.fx	3:30:00 PM	11.45562	11.45388			N/A
5/6/2019	GBPNZD	9:30:00 AM	1.97975	1.98042			N/A
5/6/2019	GBPNZD	11:30:00 AM	1.98042	1.98081			N/A
5/6/2019	GBPNZD	1:30:00 PM	1.98099	1.98165			N/A
5/6/2019	GBPNZD	3:30:00 PM	1.98097	1.9815			N/A
5/6/2019	GBPNZD.fx	9:30:00 AM	1.98012	1.98005			N/A
5/6/2019	GBPNZD.fx	11:30:00 AM	1.98078	1.98042			N/A
5/6/2019	GBPNZD.fx	1:30:00 PM	1.98134	1.98129			N/A
5/6/2019	GBPNZD.fx	3:30:00 PM	1.98136	1.98114			N/A
5/6/2019	GBPPLN	9:30:00 AM	5.0214	5.0216			N/A
5/6/2019	GBPPLN	11:30:00 AM	5.0202	5.0202			N/A
5/6/2019	GBPPLN	1:30:00 PM	5.0151	5.0169			N/A
5/6/2019	GBPPLN	3:30:00 PM	5.0093	5.0107			N/A

5/6/2019	GBPPLN.fx	9:30:00 AM	5.01905	5.02382			N/A
5/6/2019	GBPPLN.fx	11:30:00 AM	5.01805	5.02222			N/A
5/6/2019	GBPPLN.fx	1:30:00 PM	5.01296	5.01907			N/A
5/6/2019	GBPPLN.fx	3:30:00 PM	5.00705	5.01291			N/A
5/6/2019	GBPSEK	9:30:00 AM	12.5566	12.5622			N/A
5/6/2019	GBPSEK	11:30:00 AM	12.5635	12.5673			N/A
5/6/2019	GBPSEK	1:30:00 PM	12.5607	12.5701			N/A
5/6/2019	GBPSEK	3:30:00 PM	12.5468	12.5528			N/A
5/6/2019	GBPSEK.fx	9:30:00 AM	12.5526	12.5656			N/A
5/6/2019	GBPSEK.fx	11:30:00 AM	12.56	12.57091			N/A
5/6/2019	GBPSEK.fx	1:30:00 PM	12.55704	12.57385			N/A
5/6/2019	GBPSEK.fx	3:30:00 PM	12.54291	12.55627			N/A
5/6/2019	GBPSGD	9:30:00 AM	1.7887	1.7892			N/A
5/6/2019	GBPSGD	11:30:00 AM	1.7874	1.7878			N/A
5/6/2019	GBPSGD	1:30:00 PM	1.7864	1.7872			N/A
5/6/2019	GBPSGD	3:30:00 PM	1.7854	1.7861			N/A
5/6/2019	GBPSGD.fx	9:30:00 AM	1.78681	1.79097			N/A
5/6/2019	GBPSGD.fx	11:30:00 AM	1.7857	1.78958			N/A
5/6/2019	GBPSGD.fx	1:30:00 PM	1.78454	1.78896			N/A
5/6/2019	GBPSGD.fx	3:30:00 PM	1.78355	1.78794			N/A
5/6/2019	GBPUSD	9:30:00 AM	1.31186	1.31179			N/A
5/6/2019	GBPUSD	11:30:00 AM	1.3118	1.31137			N/A
5/6/2019	GBPUSD	1:30:00 PM	1.31054	1.31054			N/A
5/6/2019	GBPUSD	3:30:00 PM	1.30956	1.30955			N/A
5/6/2019	GBPUSD.fx	9:30:00 AM	1.31191	1.31173			N/A
5/6/2019	GBPUSD.fx	11:30:00 AM	1.31186	1.31131			N/A
5/6/2019	GBPUSD.fx	1:30:00 PM	1.3106	1.31048			N/A
5/6/2019	GBPUSD.fx	3:30:00 PM	1.30961	1.30948			N/A
5/6/2019	GBPZAR	9:30:00 AM	18.9705	18.9909			N/A
5/6/2019	GBPZAR	11:30:00 AM	18.9655	18.9937			N/A
5/6/2019	GBPZAR	1:30:00 PM	18.9683	18.9962			N/A
5/6/2019	GBPZAR	3:30:00 PM	18.9916	19.0154			N/A
5/6/2019	GBPZAR.fx	9:30:00 AM	18.9781	18.9854			N/A
5/6/2019	GBPZAR.fx	11:30:00 AM	18.9727	18.9863			N/A

5/6/2019	GBPZAR.fx	1:30:00 PM	18.975	18.9897			N/A
5/6/2019	GBPZAR.fx	3:30:00 PM	18.9993	19.0083			N/A
5/6/2019	GOLD	9:30:00 AM	1281.68	1281.86			N/A
5/6/2019	GOLD	11:30:00 AM	1282.71	1283.02			N/A
5/6/2019	GOLD	1:30:00 PM	1281.23	1281.39			N/A
5/6/2019	GOLD	3:30:00 PM	1278.56	1278.67			N/A
5/6/2019	HKDJPY	9:30:00 AM	14.12	14.12			N/A
5/6/2019	HKDJPY	11:30:00 AM					N/A
5/6/2019	HKDJPY	1:30:00 PM	14.11	14.13			N/A
5/6/2019	HKDJPY	3:30:00 PM	14.14	14.15			N/A
5/6/2019	HKDJPY.fx	9:30:00 AM	14.11	14.116			N/A
5/6/2019	HKDJPY.fx	11:30:00 AM	14.107	14.113			N/A
5/6/2019	HKDJPY.fx	1:30:00 PM	14.113	14.12			N/A
5/6/2019	HKDJPY.fx	3:30:00 PM	14.133	14.139			N/A
5/6/2019	HUFJPY	9:30:00 AM	0.3836	0.3839			N/A
5/6/2019	HUFJPY	11:30:00 AM	0.383	0.3833			N/A
5/6/2019	HUFJPY	1:30:00 PM	0.3835	0.3838			N/A
5/6/2019	HUFJPY	3:30:00 PM	0.3841	0.3844			N/A
5/6/2019	JP225.i	9:30:00 AM	21999	22004			N/A
5/6/2019	JP225.i	11:30:00 AM	21964	21971.5			N/A
5/6/2019	JP225.i	1:30:00 PM	21964	21974			N/A
5/6/2019	JP225.i	3:30:00 PM	22016.95	22029			N/A
5/6/2019	MXNJPY	9:30:00 AM	5.8	5.81			N/A
5/6/2019	MXNJPY	11:30:00 AM	5.81	5.82			N/A
5/6/2019	MXNJPY	1:30:00 PM	5.82	5.83			N/A
5/6/2019	MXNJPY	3:30:00 PM	5.82	5.83			N/A
5/6/2019	NASDAQ.i	9:30:00 AM					N/A
5/6/2019	NASDAQ.i	11:30:00 AM					N/A
5/6/2019	NASDAQ.i	1:30:00 PM					N/A
5/6/2019	NASDAQ.i	3:30:00 PM					N/A
5/6/2019	NOKJPY	9:30:00 AM	12.64	12.68			N/A
5/6/2019	NOKJPY	11:30:00 AM	12.63	12.66			N/A
5/6/2019	NOKJPY	1:30:00 PM	12.64	12.67			N/A
5/6/2019	NOKJPY	3:30:00 PM	12.66	12.7			N/A

5/6/2019	NOKJPY.fx	9:30:00 AM	12.652	12.661			N/A
5/6/2019	NOKJPY.fx	11:30:00 AM	12.643	12.648			N/A
5/6/2019	NOKJPY.fx	1:30:00 PM	12.643	12.651			N/A
5/6/2019	NOKJPY.fx	3:30:00 PM	12.68	12.684			N/A
5/6/2019	NZDCAD	9:30:00 AM	0.89347	0.89415			N/A
5/6/2019	NZDCAD	11:30:00 AM	0.89188	0.89255			N/A
5/6/2019	NZDCAD	1:30:00 PM	0.891	0.89164			N/A
5/6/2019	NZDCAD	3:30:00 PM	0.89059	0.89129			N/A
5/6/2019	NZDCAD.fx	9:30:00 AM	0.89381	0.89381			N/A
5/6/2019	NZDCAD.fx	11:30:00 AM	0.89222	0.89221			N/A
5/6/2019	NZDCAD.fx	1:30:00 PM	0.89134	0.8913			N/A
5/6/2019	NZDCAD.fx	3:30:00 PM	0.89092	0.89095			N/A
5/6/2019	NZDCHF	9:30:00 AM	0.67277	0.67348			N/A
5/6/2019	NZDCHF	11:30:00 AM	0.67318	0.67394			N/A
5/6/2019	NZDCHF	1:30:00 PM	0.67338	0.67407			N/A
5/6/2019	NZDCHF	3:30:00 PM	0.67293	0.6736			N/A
5/6/2019	NZDCHF.fx	9:30:00 AM	0.6731	0.67311			N/A
5/6/2019	NZDCHF.fx	11:30:00 AM	0.67352	0.67358			N/A
5/6/2019	NZDCHF.fx	1:30:00 PM	0.67371	0.67372			N/A
5/6/2019	NZDCHF.fx	3:30:00 PM	0.67328	0.67324			N/A
5/6/2019	NZDCZK	9:30:00 AM	15.201	15.213			N/A
5/6/2019	NZDCZK	11:30:00 AM	15.2	15.212			N/A
5/6/2019	NZDCZK	1:30:00 PM	15.184	15.195			N/A
5/6/2019	NZDCZK	3:30:00 PM	15.165	15.177			N/A
5/6/2019	NZDDKK	9:30:00 AM	4.418	4.421			N/A
5/6/2019	NZDDKK	11:30:00 AM					N/A
5/6/2019	NZDDKK	1:30:00 PM					N/A
5/6/2019	NZDDKK	3:30:00 PM	4.406	4.41			N/A
5/6/2019	NZDHKD	9:30:00 AM	5.1945	5.1974			N/A
5/6/2019	NZDHKD	11:30:00 AM	5.1933	5.1959			N/A
5/6/2019	NZDHKD	1:30:00 PM	5.1869	5.1893			N/A
5/6/2019	NZDHKD	3:30:00 PM	5.1843	5.1858			N/A
5/6/2019	NZDHUF	9:30:00 AM	191.18	191.47			N/A
5/6/2019	NZDHUF	11:30:00 AM	191.33	191.63			N/A

5/6/2019	NZDHUF	1:30:00 PM	190.94	191.21			N/A
5/6/2019	NZDHUF	3:30:00 PM	190.71	190.99			N/A
5/6/2019	NZDJPY	9:30:00 AM	73.325	73.396			N/A
5/6/2019	NZDJPY	11:30:00 AM	73.284	73.351			N/A
5/6/2019	NZDJPY	1:30:00 PM	73.232	73.302			N/A
5/6/2019	NZDJPY	3:30:00 PM	73.291	73.346			N/A
5/6/2019	NZDJPY.fx	9:30:00 AM	73.356	73.364			N/A
5/6/2019	NZDJPY.fx	11:30:00 AM	73.316	73.317			N/A
5/6/2019	NZDJPY.fx	1:30:00 PM	73.263	73.269			N/A
5/6/2019	NZDJPY.fx	3:30:00 PM	73.322	73.313			N/A
5/6/2019	NZDMXN	9:30:00 AM	12.6295	12.6363			N/A
5/6/2019	NZDMXN	11:30:00 AM	12.6023	12.6076			N/A
5/6/2019	NZDMXN	1:30:00 PM	12.5835	12.5887			N/A
5/6/2019	NZDMXN	3:30:00 PM	12.5891	12.5917			N/A
5/6/2019	NZDNOK	9:30:00 AM	5.7929	5.7959			N/A
5/6/2019	NZDNOK	11:30:00 AM	5.7941	5.7978			N/A
5/6/2019	NZDNOK	1:30:00 PM	5.7889	5.7921			N/A
5/6/2019	NZDNOK	3:30:00 PM	5.7773	5.7812			N/A
5/6/2019	NZDPLN	9:30:00 AM	2.5344	2.5354			N/A
5/6/2019	NZDPLN	11:30:00 AM	2.5328	2.5342			N/A
5/6/2019	NZDPLN	1:30:00 PM	2.5303	2.5313			N/A
5/6/2019	NZDPLN	3:30:00 PM	2.5275	2.5287			N/A
5/6/2019	NZDSEK	9:30:00 AM	6.3371	6.3424			N/A
5/6/2019	NZDSEK	11:30:00 AM	6.3377	6.3443			N/A
5/6/2019	NZDSEK	1:30:00 PM	6.3361	6.3422			N/A
5/6/2019	NZDSEK	3:30:00 PM	6.3287	6.334			N/A
5/6/2019	NZDSGD	9:30:00 AM	0.9031	0.9037			N/A
5/6/2019	NZDSGD	11:30:00 AM	0.9024	0.9029			N/A
5/6/2019	NZDSGD	1:30:00 PM	0.9015	0.9021			N/A
5/6/2019	NZDSGD	3:30:00 PM	0.901	0.9017			N/A
5/6/2019	NZDSGD.fx	9:30:00 AM	0.90313	0.90366			N/A
5/6/2019	NZDSGD.fx	11:30:00 AM	0.90231	0.90281			N/A
5/6/2019	NZDSGD.fx	1:30:00 PM	0.90148	0.90201			N/A
5/6/2019	NZDSGD.fx	3:30:00 PM	0.90108	0.90159			N/A

5/6/2019	NZDUSD	9:30:00 AM	0.66237	0.66246			N/A
5/6/2019	NZDUSD	11:30:00 AM	0.66214	0.66218			N/A
5/6/2019	NZDUSD	1:30:00 PM	0.66134	0.66143			N/A
5/6/2019	NZDUSD	3:30:00 PM	0.66093	0.66095			N/A
5/6/2019	NZDUSD.fx	9:30:00 AM	0.66245	0.66247			N/A
5/6/2019	NZDUSD.fx	11:30:00 AM	0.66222	0.66218			N/A
5/6/2019	NZDUSD.fx	1:30:00 PM	0.6614	0.66144			N/A
5/6/2019	NZDUSD.fx	3:30:00 PM	0.661	0.66096			N/A
5/6/2019	NZDZAR	9:30:00 AM	9.5749	9.588			N/A
5/6/2019	NZDZAR	11:30:00 AM	9.5699	9.5856			N/A
5/6/2019	NZDZAR	1:30:00 PM	9.5676	9.5831			N/A
5/6/2019	NZDZAR	3:30:00 PM	9.5795	9.5951			N/A
5/6/2019	SEKJPY	9:30:00 AM	11.57	11.57			N/A
5/6/2019	SEKJPY	11:30:00 AM	11.56	11.57			N/A
5/6/2019	SEKJPY	1:30:00 PM	11.56	11.56			N/A
5/6/2019	SEKJPY	3:30:00 PM	11.58	11.58			N/A
5/6/2019	SEKJPY.fx	9:30:00 AM	11.557	11.573			N/A
5/6/2019	SEKJPY.fx	11:30:00 AM	11.548	11.564			N/A
5/6/2019	SEKJPY.fx	1:30:00 PM	11.543	11.562			N/A
5/6/2019	SEKJPY.fx	3:30:00 PM	11.566	11.584			N/A
5/6/2019	SGDJPY	9:30:00 AM	81.18	81.2			N/A
5/6/2019	SGDJPY	11:30:00 AM	81.21	81.23			N/A
5/6/2019	SGDJPY	1:30:00 PM	81.26	81.24			N/A
5/6/2019	SGDJPY	3:30:00 PM	81.31	81.34			N/A
5/6/2019	SILVER	9:30:00 AM	14.67	15.06			N/A
5/6/2019	SILVER	11:30:00 AM	14.66	15.04			N/A
5/6/2019	SILVER	1:30:00 PM	14.65	15.03			N/A
5/6/2019	SILVER	3:30:00 PM	14.6	14.99			N/A
5/6/2019	SPX500.i	9:30:00 AM	2893.85	2893.65			N/A
5/6/2019	SPX500.i	11:30:00 AM	2896.85	2896.65			N/A
5/6/2019	SPX500.i	1:30:00 PM	2896.6	2896.4			N/A
5/6/2019	SPX500.i	3:30:00 PM	2903.35	2903.4			N/A
5/6/2019	UK100.i	9:30:00 AM	7293	7291.8			N/A
5/6/2019	UK100.i	11:30:00 AM	7290.8	7291.4			N/A

5/6/2019	UK100.i	1:30:00 PM	7285.5	7287			N/A
5/6/2019	UK100.i	3:30:00 PM	7297.2	7297.2			N/A
5/6/2019	USDCAD	9:30:00 AM	1.34927	1.34927			N/A
5/6/2019	USDCAD	11:30:00 AM	1.34737	1.34722			N/A
5/6/2019	USDCAD	1:30:00 PM	1.34754	1.34765			N/A
5/6/2019	USDCAD	3:30:00 PM	1.34799	1.34785			N/A
5/6/2019	USDCAD.fx	9:30:00 AM	1.34931	1.34924			N/A
5/6/2019	USDCAD.fx	11:30:00 AM	1.34741	1.34718			N/A
5/6/2019	USDCAD.fx	1:30:00 PM	1.34757	1.34762			N/A
5/6/2019	USDCAD.fx	3:30:00 PM	1.34802	1.34781			N/A
5/6/2019	USDCHF	9:30:00 AM	1.01599	1.01614			N/A
5/6/2019	USDCHF	11:30:00 AM	1.01714	1.01713			N/A
5/6/2019	USDCHF	1:30:00 PM	1.0185	1.01857			N/A
5/6/2019	USDCHF	3:30:00 PM	1.01855	1.01864			N/A
5/6/2019	USDCHF.fx	9:30:00 AM	1.01604	1.01608			N/A
5/6/2019	USDCHF.fx	11:30:00 AM	1.0172	1.01706			N/A
5/6/2019	USDCHF.fx	1:30:00 PM	1.01855	1.0185			N/A
5/6/2019	USDCHF.fx	3:30:00 PM	1.0186	1.01857			N/A
5/6/2019	USDCZK	9:30:00 AM	22.966	22.989			N/A
5/6/2019	USDCZK	11:30:00 AM	22.972	22.99			N/A
5/6/2019	USDCZK	1:30:00 PM	22.973	22.996			N/A
5/6/2019	USDCZK	3:30:00 PM	22.962	22.982			N/A
5/6/2019	USDCZK.fx	9:30:00 AM	22.9748	22.9804			N/A
5/6/2019	USDCZK.fx	11:30:00 AM	22.981	22.98			N/A
5/6/2019	USDCZK.fx	1:30:00 PM	22.9809	22.9878			N/A
5/6/2019	USDCZK.fx	3:30:00 PM	22.9701	22.9749			N/A
5/6/2019	USDDKK	9:30:00 AM	6.6703	6.6738			N/A
5/6/2019	USDDKK	11:30:00 AM	6.6714	6.6742			N/A
5/6/2019	USDDKK	1:30:00 PM	6.6713	6.6753			N/A
5/6/2019	USDDKK	3:30:00 PM	6.6688	6.6722			N/A
5/6/2019	USDDKK.fx	9:30:00 AM	6.67065	6.67174			N/A
5/6/2019	USDDKK.fx	11:30:00 AM	6.67176	6.67214			N/A
5/6/2019	USDDKK.fx	1:30:00 PM	6.67186	6.67312			N/A
5/6/2019	USDDKK.fx	3:30:00 PM	6.66914	6.6702			N/A

5/6/2019	USDHKD	9:30:00 AM	7.8456	7.8458			N/A
5/6/2019	USDHKD	11:30:00 AM	7.8457	7.846			N/A
5/6/2019	USDHKD	1:30:00 PM	7.8459	7.8463			N/A
5/6/2019	USDHKD	3:30:00 PM	7.8452	7.8457			N/A
5/6/2019	USDHKD.fx	9:30:00 AM	7.84555	7.84608			N/A
5/6/2019	USDHKD.fx	11:30:00 AM	7.84564	7.8462			N/A
5/6/2019	USDHKD.fx	1:30:00 PM	7.84598	7.84654			N/A
5/6/2019	USDHKD.fx	3:30:00 PM					N/A
5/6/2019	USDHUF	9:30:00 AM	288.73	289.19			N/A
5/6/2019	USDHUF	11:30:00 AM	289.09	289.56			N/A
5/6/2019	USDHUF	1:30:00 PM	288.81	289.28			N/A
5/6/2019	USDHUF	3:30:00 PM	288.69	289.13			N/A
5/6/2019	USDHUF.fx	9:30:00 AM	288.927	288.987			N/A
5/6/2019	USDHUF.fx	11:30:00 AM	289.292	289.355			N/A
5/6/2019	USDHUF.fx	1:30:00 PM	289.005	289.084			N/A
5/6/2019	USDHUF.fx	3:30:00 PM	288.885	288.926			N/A
5/6/2019	USDINR	9:30:00 AM	64.4	74.38			N/A
5/6/2019	USDINR	11:30:00 AM	64.41	74.4			N/A
5/6/2019	USDINR	1:30:00 PM					N/A
5/6/2019	USDINR	3:30:00 PM					N/A
5/6/2019	USDJPY	9:30:00 AM	110.731	110.742			N/A
5/6/2019	USDJPY	11:30:00 AM	110.714	110.719			N/A
5/6/2019	USDJPY	1:30:00 PM	110.764	110.769			N/A
5/6/2019	USDJPY	3:30:00 PM	110.924	110.927			N/A
5/6/2019	USDJPY.fx	9:30:00 AM	110.736	110.734			N/A
5/6/2019	USDJPY.fx	11:30:00 AM	110.72	110.712			N/A
5/6/2019	USDJPY.fx	1:30:00 PM	110.77	110.762			N/A
5/6/2019	USDJPY.fx	3:30:00 PM	110.93	110.917			N/A
5/6/2019	USDMXN	9:30:00 AM	19.073	19.081			N/A
5/6/2019	USDMXN	11:30:00 AM	19.042	19.044			N/A
5/6/2019	USDMXN	1:30:00 PM	19.033	19.041			N/A
5/6/2019	USDMXN	3:30:00 PM	19.056	19.053			N/A
5/6/2019	USDMXN.f	9:30:00 AM	19.0761	19.0773			N/A
5/6/2019	USDMXN.f	11:30:00 AM	19.0457	19.0409			N/A

5/6/2019	USDMXN.f	1:30:00 PM	19.0365	19.0363			N/A
5/6/2019	USDMXN.f	3:30:00 PM	19.0602	19.0497			N/A
5/6/2019	USDNOK	9:30:00 AM	8.7461	8.7538			N/A
5/6/2019	USDNOK	11:30:00 AM	8.7521	8.7591			N/A
5/6/2019	USDNOK	1:30:00 PM	8.7543	8.7629			N/A
5/6/2019	USDNOK	3:30:00 PM	8.7443	8.7497			N/A
5/6/2019	USDNOK.fx	9:30:00 AM	8.74989	8.74915			N/A
5/6/2019	USDNOK.fx	11:30:00 AM	8.75606	8.75464			N/A
5/6/2019	USDNOK.fx	1:30:00 PM	8.75825	8.75835			N/A
5/6/2019	USDNOK.fx	3:30:00 PM	8.74815	8.74541			N/A
5/6/2019	USDPLN	9:30:00 AM	3.8276	3.8285			N/A
5/6/2019	USDPLN	11:30:00 AM	3.8281	3.8278			N/A
5/6/2019	USDPLN	1:30:00 PM	3.8267	3.8283			N/A
5/6/2019	USDPLN	3:30:00 PM	3.825	3.8263			N/A
5/6/2019	USDPLN.fx	9:30:00 AM	3.82678	3.82931			N/A
5/6/2019	USDPLN.fx	11:30:00 AM	3.82717	3.82821			N/A
5/6/2019	USDPLN.fx	1:30:00 PM	3.82585	3.82904			N/A
5/6/2019	USDPLN.fx	3:30:00 PM	3.82409	3.82708			N/A
5/6/2019	USDRUB	9:30:00 AM					N/A
5/6/2019	USDRUB	11:30:00 AM	65.029	65.41			N/A
5/6/2019	USDRUB	1:30:00 PM	64.942	65.336			N/A
5/6/2019	USDRUB	3:30:00 PM	64.982	65.362			N/A
5/6/2019	USDSEK	9:30:00 AM	9.5727	9.5752			N/A
5/6/2019	USDSEK	11:30:00 AM	9.578	9.5804			N/A
5/6/2019	USDSEK	1:30:00 PM	9.5855	9.5899			N/A
5/6/2019	USDSEK	3:30:00 PM	9.5818	9.5841			N/A
5/6/2019	USDSEK.fx	9:30:00 AM	9.57549	9.57343			N/A
5/6/2019	USDSEK.fx	11:30:00 AM	9.58061	9.57865			N/A
5/6/2019	USDSEK.fx	1:30:00 PM	9.58793	9.58799			N/A
5/6/2019	USDSEK.fx	3:30:00 PM	9.58443	9.58211			N/A
5/6/2019	USDSGD	9:30:00 AM	1.3636	1.3639			N/A
5/6/2019	USDSGD	11:30:00 AM	1.3628	1.3632			N/A
5/6/2019	USDSGD	1:30:00 PM	1.3632	1.3636			N/A
5/6/2019	USDSGD	3:30:00 PM	1.3635	1.3637			N/A

5/6/2019	USDSGD.fx	9:30:00 AM	1.36348	1.3639			N/A
5/6/2019	USDSGD.fx	11:30:00 AM	1.36276	1.3632			N/A
5/6/2019	USDSGD.fx	1:30:00 PM	1.36312	1.36359			N/A
5/6/2019	USDSGD.fx	3:30:00 PM	1.36339	1.36376			N/A
5/6/2019	USDZAR	9:30:00 AM	14.4652	14.4758			N/A
5/6/2019	USDZAR	11:30:00 AM	14.4627	14.4758			N/A
5/6/2019	USDZAR	1:30:00 PM	14.4754	14.4924			N/A
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5/6/2019	USDZAR.fx	3:30:00 PM					N/A
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5/6/2019	XAUUSD	11:30:00 AM	1282.71	1283			N/A
5/6/2019	XAUUSD	1:30:00 PM	1281.24	1281.38			N/A
5/6/2019	XAUUSD	3:30:00 PM	1278.56	1278.67			N/A
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5/6/2019	ZARJPY	11:30:00 AM	7.63	7.65			N/A
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5/6/2019	ZARJPY.fx	3:30:00 PM	7.643	7.644			N/A
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5/7/2019	#QQQ	3:30:00 PM					N/A
5/7/2019	#Ripple	9:30:00 AM	0.3172	0.3219			N/A
5/7/2019	#Ripple	11:30:00 AM	0.3177	0.3226			N/A
5/7/2019	#Ripple	1:30:00 PM	0.3154	0.3201			N/A
5/7/2019	#Ripple	3:30:00 PM	0.3151	0.3198			N/A
5/7/2019	#S	9:30:00 AM					N/A
5/7/2019	#S	11:30:00 AM					N/A

5/7/2019	#S	1:30:00 PM					N/A
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5/7/2019	#TSCO	11:30:00 AM					N/A
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5/7/2019	#TSCO	3:30:00 PM					N/A

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5/7/2019	#UBS	1:30:00 PM					N/A
5/7/2019	#UBS	3:30:00 PM					N/A
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5/7/2019	#UL	3:30:00 PM					N/A
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5/7/2019	#UPS	3:30:00 PM					N/A
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5/7/2019	#UTX	1:30:00 PM					N/A
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5/7/2019	#V	3:30:00 PM					N/A
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5/7/2019	#YHOO	3:30:00 PM					N/A
5/7/2019	#ZNGA	9:30:00 AM					N/A
5/7/2019	#ZNGA	11:30:00 AM					N/A
5/7/2019	#ZNGA	1:30:00 PM					N/A
5/7/2019	#ZNGA	3:30:00 PM					N/A
5/7/2019	AUDCAD	9:30:00 AM	0.94468	0.94502			N/A
5/7/2019	AUDCAD	11:30:00 AM	0.94323	0.94392			N/A
5/7/2019	AUDCAD	1:30:00 PM	0.94312	0.94387			N/A
5/7/2019	AUDCAD	3:30:00 PM	0.94405	0.94471			N/A
5/7/2019	AUDCAD.fx	9:30:00 AM	0.94503	0.94468			N/A
5/7/2019	AUDCAD.fx	11:30:00 AM	0.94356	0.94358			N/A
5/7/2019	AUDCAD.fx	1:30:00 PM	0.94345	0.94353			N/A
5/7/2019	AUDCAD.fx	3:30:00 PM	0.94439	0.94436			N/A

5/7/2019	AUDCHF	9:30:00 AM	0.71532	0.7158			N/A
5/7/2019	AUDCHF	11:30:00 AM	0.71504	0.71567			N/A
5/7/2019	AUDCHF	1:30:00 PM	0.71493	0.71563			N/A
5/7/2019	AUDCHF	3:30:00 PM	0.7154	0.71613			N/A
5/7/2019	AUDCHF.fx	9:30:00 AM	0.71566	0.71545			N/A
5/7/2019	AUDCHF.fx	11:30:00 AM	0.71538	0.71532			N/A
5/7/2019	AUDCHF.fx	1:30:00 PM	0.71527	0.71528			N/A
5/7/2019	AUDCHF.fx	3:30:00 PM	0.71575	0.71577			N/A
5/7/2019	AUDCZK	9:30:00 AM	16.115	16.128			N/A
5/7/2019	AUDCZK	11:30:00 AM	16.111	16.126			N/A
5/7/2019	AUDCZK	1:30:00 PM	16.094	16.11			N/A
5/7/2019	AUDCZK	3:30:00 PM	16.108	16.123			N/A
5/7/2019	AUDDKK	9:30:00 AM	4.6842	4.6879			N/A
5/7/2019	AUDDKK	11:30:00 AM	4.6807	4.685			N/A
5/7/2019	AUDDKK	1:30:00 PM	4.6753	4.6796			N/A
5/7/2019	AUDDKK	3:30:00 PM	4.6781	4.6828			N/A
5/7/2019	AUDHKD	9:30:00 AM	5.5216	5.5241			N/A
5/7/2019	AUDHKD	11:30:00 AM	5.5091	5.5119			N/A
5/7/2019	AUDHKD	1:30:00 PM	5.5034	5.507			N/A
5/7/2019	AUDHKD	3:30:00 PM	5.5012	5.505			N/A
5/7/2019	AUDHUF	9:30:00 AM	202.95	202.86			N/A
5/7/2019	AUDHUF	11:30:00 AM	202.96	203.19			N/A
5/7/2019	AUDHUF	1:30:00 PM	202.9	203.12			N/A
5/7/2019	AUDHUF	3:30:00 PM					N/A
5/7/2019	AUDJPY	9:30:00 AM	77.956	77.992			N/A
5/7/2019	AUDJPY	11:30:00 AM	77.67	77.727			N/A
5/7/2019	AUDJPY	1:30:00 PM	77.57	77.642			N/A
5/7/2019	AUDJPY	3:30:00 PM	77.58	77.649			N/A
5/7/2019	AUDJPY.fx	9:30:00 AM	77.99	77.956			N/A
5/7/2019	AUDJPY.fx	11:30:00 AM	77.704	77.692			N/A
5/7/2019	AUDJPY.fx	1:30:00 PM	77.604	77.607			N/A
5/7/2019	AUDJPY.fx	3:30:00 PM	77.614	77.614			N/A
5/7/2019	AUDMXN	9:30:00 AM	13.3353	13.3406			N/A
5/7/2019	AUDMXN	11:30:00 AM	13.3273	13.3365			N/A

5/7/2019	AUDMXN	1:30:00 PM	13.3225	13.3305			N/A
5/7/2019	AUDMXN	3:30:00 PM	13.3497	13.356			N/A
5/7/2019	AUDNOK	9:30:00 AM	6.1244	6.1285			N/A
5/7/2019	AUDNOK	11:30:00 AM	6.1124	6.1174			N/A
5/7/2019	AUDNOK	1:30:00 PM	6.1047	6.1098			N/A
5/7/2019	AUDNOK	3:30:00 PM	6.1146	6.1196			N/A
5/7/2019	AUDNOK.fx	9:30:00 AM	6.126	6.1268			N/A
5/7/2019	AUDNOK.fx	11:30:00 AM	6.1141	6.1156			N/A
5/7/2019	AUDNOK.fx	1:30:00 PM	6.1063	6.108			N/A
5/7/2019	AUDNOK.fx	3:30:00 PM	6.1162	6.1178			N/A
5/7/2019	AUDNZD	9:30:00 AM	1.06299	1.06371			N/A
5/7/2019	AUDNZD	11:30:00 AM	1.06242	1.06312			N/A
5/7/2019	AUDNZD	1:30:00 PM	1.06266	1.06339			N/A
5/7/2019	AUDNZD	3:30:00 PM	1.06324	1.06407			N/A
5/7/2019	AUDNZD.fx	9:30:00 AM	1.06344	1.06325			N/A
5/7/2019	AUDNZD.fx	11:30:00 AM	1.06286	1.06266			N/A
5/7/2019	AUDNZD.fx	1:30:00 PM	1.0631	1.06295			N/A
5/7/2019	AUDNZD.fx	3:30:00 PM	1.06368	1.06361			N/A
5/7/2019	AUDPLN	9:30:00 AM	2.6871	2.6893			N/A
5/7/2019	AUDPLN	11:30:00 AM	2.6859	2.6889			N/A
5/7/2019	AUDPLN	1:30:00 PM	2.6839	2.687			N/A
5/7/2019	AUDPLN	3:30:00 PM	2.6856	2.6889			N/A
5/7/2019	AUDSEK	9:30:00 AM	6.7182	6.7202			N/A
5/7/2019	AUDSEK	11:30:00 AM	6.7055	6.7065			N/A
5/7/2019	AUDSEK	1:30:00 PM	6.7048	6.708			N/A
5/7/2019	AUDSEK	3:30:00 PM	6.7152	6.7161			N/A
5/7/2019	AUDSEK.fx	9:30:00 AM	6.7136	6.7246			N/A
5/7/2019	AUDSEK.fx	11:30:00 AM	6.7009	6.7109			N/A
5/7/2019	AUDSEK.fx	1:30:00 PM	6.7006	6.7123			N/A
5/7/2019	AUDSEK.fx	3:30:00 PM	6.7108	6.7205			N/A
5/7/2019	AUDSGD	9:30:00 AM	0.9582	0.9583			N/A
5/7/2019	AUDSGD	11:30:00 AM	0.9563	0.9565			N/A
5/7/2019	AUDSGD	1:30:00 PM	0.9556	0.9558			N/A
5/7/2019	AUDSGD	3:30:00 PM	0.9557	0.956			N/A

5/7/2019	AUDSGD.fx	9:30:00 AM	0.95832	0.95816			N/A
5/7/2019	AUDSGD.fx	11:30:00 AM	0.95641	0.95644			N/A
5/7/2019	AUDSGD.fx	1:30:00 PM	0.95566	0.95577			N/A
5/7/2019	AUDSGD.fx	3:30:00 PM	0.95583	0.95591			N/A
5/7/2019	AUDUSD	9:30:00 AM	0.70401	0.70389			N/A
5/7/2019	AUDUSD	11:30:00 AM	0.7022	0.70228			N/A
5/7/2019	AUDUSD	1:30:00 PM	0.7016	0.70172			N/A
5/7/2019	AUDUSD	3:30:00 PM	0.7014	0.70147			N/A
5/7/2019	AUDUSD.fx	9:30:00 AM	0.70407	0.70383			N/A
5/7/2019	AUDUSD.fx	11:30:00 AM	0.70225	0.70222			N/A
5/7/2019	AUDUSD.fx	1:30:00 PM	0.70165	0.70166			N/A
5/7/2019	AUDUSD.fx	3:30:00 PM	0.70145	0.70141			N/A
5/7/2019	AUDZAR	9:30:00 AM	10.1515	10.1639			N/A
5/7/2019	AUDZAR	11:30:00 AM	10.1467	10.1619			N/A
5/7/2019	AUDZAR	1:30:00 PM	10.1344	10.1474			N/A
5/7/2019	AUDZAR	3:30:00 PM	10.1118	10.1277			N/A
5/7/2019	AUS200.i	9:30:00 AM					N/A
5/7/2019	AUS200.i	11:30:00 AM	6301.17	6304.47			N/A
5/7/2019	AUS200.i	1:30:00 PM	6293.97	6296.97			N/A
5/7/2019	AUS200.i	3:30:00 PM	6288.67	6291.47			N/A
5/7/2019	BCHUSD	9:30:00 AM	303.26	305.14			N/A
5/7/2019	BCHUSD	11:30:00 AM	302.54	304.33			N/A
5/7/2019	BCHUSD	1:30:00 PM	301.69	303.58			N/A
5/7/2019	BCHUSD	3:30:00 PM	302.61	304.59			N/A
5/7/2019	CADCHF	9:30:00 AM	0.75702	0.75764			N/A
5/7/2019	CADCHF	11:30:00 AM	0.75779	0.75845			N/A
5/7/2019	CADCHF	1:30:00 PM	0.75775	0.75845			N/A
5/7/2019	CADCHF	3:30:00 PM	0.75758	0.75823			N/A
5/7/2019	CADCHF.fx	9:30:00 AM	0.75735	0.75728			N/A
5/7/2019	CADCHF.fx	11:30:00 AM	0.75813	0.7581			N/A
5/7/2019	CADCHF.fx	1:30:00 PM	0.75809	0.7581			N/A
5/7/2019	CADCHF.fx	3:30:00 PM	0.75794	0.75788			N/A
5/7/2019	CADCZK	9:30:00 AM	17.059	17.071			N/A
5/7/2019	CADCZK	11:30:00 AM	17.078	17.094			N/A

5/7/2019	CADCZK	1:30:00 PM	17.062	17.077			N/A
5/7/2019	CADCZK	3:30:00 PM	17.06	17.076			N/A
5/7/2019	CADDKK	9:30:00 AM					N/A
5/7/2019	CADDKK	11:30:00 AM					N/A
5/7/2019	CADDKK	1:30:00 PM					N/A
5/7/2019	CADDKK	3:30:00 PM	4.955	4.958			N/A
5/7/2019	CADHKD	9:30:00 AM	5.8441	5.848			N/A
5/7/2019	CADHKD	11:30:00 AM	5.8385	5.8424			N/A
5/7/2019	CADHKD	1:30:00 PM	5.8339	5.8375			N/A
5/7/2019	CADHKD	3:30:00 PM	5.8267	5.8299			N/A
5/7/2019	CADHUF	9:30:00 AM	214.87	214.67			N/A
5/7/2019	CADHUF	11:30:00 AM	215.16	215.33			N/A
5/7/2019	CADHUF	1:30:00 PM	215.12	215.28			N/A
5/7/2019	CADHUF	3:30:00 PM	215.16	215.3			N/A
5/7/2019	CADJPY	9:30:00 AM	82.492	82.553			N/A
5/7/2019	CADJPY	11:30:00 AM	82.313	82.376			N/A
5/7/2019	CADJPY	1:30:00 PM	82.219	82.29			N/A
5/7/2019	CADJPY	3:30:00 PM	82.155	82.217			N/A
5/7/2019	CADJPY.fx	9:30:00 AM	82.526	82.519			N/A
5/7/2019	CADJPY.fx	11:30:00 AM	82.347	82.341			N/A
5/7/2019	CADJPY.fx	1:30:00 PM	82.253	82.255			N/A
5/7/2019	CADJPY.fx	3:30:00 PM	82.189	82.182			N/A
5/7/2019	CADMXN	9:30:00 AM	14.1136	14.1252			N/A
5/7/2019	CADMXN	11:30:00 AM	14.1269	14.1374			N/A
5/7/2019	CADMXN	1:30:00 PM	14.1218	14.1321			N/A
5/7/2019	CADMXN	3:30:00 PM	14.1365	14.1463			N/A
5/7/2019	CADNOK	9:30:00 AM	6.4802	6.4849			N/A
5/7/2019	CADNOK	11:30:00 AM	6.4769	6.4817			N/A
5/7/2019	CADNOK	1:30:00 PM	6.4695	6.4737			N/A
5/7/2019	CADNOK	3:30:00 PM	6.4735	6.4785			N/A
5/7/2019	CADPLN	9:30:00 AM	2.8443	2.8456			N/A
5/7/2019	CADPLN	11:30:00 AM	2.8465	2.8484			N/A
5/7/2019	CADPLN	1:30:00 PM	2.8452	2.8468			N/A
5/7/2019	CADPLN	3:30:00 PM	2.8442	2.8461			N/A

5/7/2019	CADSEK	9:30:00 AM	7.1092	7.1107			N/A
5/7/2019	CADSEK	11:30:00 AM	7.1049	7.1058			N/A
5/7/2019	CADSEK	1:30:00 PM	7.105	7.1081			N/A
5/7/2019	CADSEK	3:30:00 PM	7.1092	7.111			N/A
5/7/2019	CADSGD	9:30:00 AM	1.0135	1.0138			N/A
5/7/2019	CADSGD	11:30:00 AM	1.013	1.0133			N/A
5/7/2019	CADSGD	1:30:00 PM	1.0122	1.0125			N/A
5/7/2019	CADSGD	3:30:00 PM	1.0113	1.0115			N/A
5/7/2019	CADZAR	9:30:00 AM	10.7453	10.7591			N/A
5/7/2019	CADZAR	11:30:00 AM	10.7541	10.772			N/A
5/7/2019	CADZAR	1:30:00 PM	10.7424	10.7577			N/A
5/7/2019	CADZAR	3:30:00 PM	10.7089	10.7253			N/A
5/7/2019	CHFCZK	9:30:00 AM	22.526	22.539			N/A
5/7/2019	CHFCZK	11:30:00 AM	22.53	22.547			N/A
5/7/2019	CHFCZK	1:30:00 PM	22.509	22.524			N/A
5/7/2019	CHFCZK	3:30:00 PM	22.512	22.528			N/A
5/7/2019	CHFDKK	9:30:00 AM	6.547	6.55			N/A
5/7/2019	CHFDKK	11:30:00 AM					N/A
5/7/2019	CHFDKK	1:30:00 PM	6.538	6.54			N/A
5/7/2019	CHFDKK	3:30:00 PM	6.538	6.541			N/A
5/7/2019	CHFDKK.fx	9:30:00 AM	6.5456	6.5514			N/A
5/7/2019	CHFDKK.fx	11:30:00 AM	6.5429	6.5491			N/A
5/7/2019	CHFDKK.fx	1:30:00 PM	6.5363	6.5419			N/A
5/7/2019	CHFDKK.fx	3:30:00 PM	6.5361	6.5421			N/A
5/7/2019	CHFHKD	9:30:00 AM	7.7175	7.7211			N/A
5/7/2019	CHFHKD	11:30:00 AM	7.702	7.7059			N/A
5/7/2019	CHFHKD	1:30:00 PM	7.6966	7.6994			N/A
5/7/2019	CHFHKD	3:30:00 PM	7.6882	7.6919			N/A
5/7/2019	CHFHUF	9:30:00 AM	283.64	283.56			N/A
5/7/2019	CHFHUF	11:30:00 AM	283.75	284.13			N/A
5/7/2019	CHFHUF	1:30:00 PM	283.69	284.05			N/A
5/7/2019	CHFHUF	3:30:00 PM	283.8	284.19			N/A
5/7/2019	CHFJPY	9:30:00 AM	108.935	108.997			N/A
5/7/2019	CHFJPY	11:30:00 AM	108.582	108.648			N/A

5/7/2019	CHFJPY	1:30:00 PM	108.467	108.531			N/A
5/7/2019	CHFJPY	3:30:00 PM	108.402	108.471			N/A
5/7/2019	CHFJPY.fx	9:30:00 AM	108.969	108.962			N/A
5/7/2019	CHFJPY.fx	11:30:00 AM	108.615	108.614			N/A
5/7/2019	CHFJPY.fx	1:30:00 PM	108.501	108.496			N/A
5/7/2019	CHFJPY.fx	3:30:00 PM	108.435	108.437			N/A
5/7/2019	CHFMXN	9:30:00 AM	18.6388	18.6514			N/A
5/7/2019	CHFMXN	11:30:00 AM	18.6344	18.6487			N/A
5/7/2019	CHFMXN	1:30:00 PM	18.6287	18.6426			N/A
5/7/2019	CHFMXN	3:30:00 PM	18.6539	18.6648			N/A
5/7/2019	CHFNOK	9:30:00 AM	8.558	8.565			N/A
5/7/2019	CHFNOK	11:30:00 AM	8.5445	8.5518			N/A
5/7/2019	CHFNOK	1:30:00 PM	8.5343	8.5418			N/A
5/7/2019	CHFNOK	3:30:00 PM	8.5424	8.5499			N/A
5/7/2019	CHFNOK.fx	9:30:00 AM	8.5615	8.56158			N/A
5/7/2019	CHFNOK.fx	11:30:00 AM	8.54807	8.54819			N/A
5/7/2019	CHFNOK.fx	1:30:00 PM	8.53798	8.53811			N/A
5/7/2019	CHFNOK.fx	3:30:00 PM	8.54601	8.5463			N/A
5/7/2019	CHFPLN	9:30:00 AM	3.7558	3.7573			N/A
5/7/2019	CHFPLN	11:30:00 AM	3.7555	3.7584			N/A
5/7/2019	CHFPLN	1:30:00 PM	3.753	3.7558			N/A
5/7/2019	CHFPLN	3:30:00 PM	3.7528	3.7557			N/A
5/7/2019	CHFPLN.fx	9:30:00 AM	3.75334	3.75965			N/A
5/7/2019	CHFPLN.fx	11:30:00 AM	3.75306	3.76073			N/A
5/7/2019	CHFPLN.fx	1:30:00 PM	3.75074	3.75803			N/A
5/7/2019	CHFPLN.fx	3:30:00 PM	3.75046	3.75803			N/A
5/7/2019	CHFSEK	9:30:00 AM	9.388	9.3891			N/A
5/7/2019	CHFSEK	11:30:00 AM	9.373	9.3735			N/A
5/7/2019	CHFSEK	1:30:00 PM	9.3732	9.3763			N/A
5/7/2019	CHFSEK	3:30:00 PM	9.3816	9.3819			N/A
5/7/2019	CHFSGD	9:30:00 AM	1.339	1.3394			N/A
5/7/2019	CHFSGD	11:30:00 AM	1.3369	1.3372			N/A
5/7/2019	CHFSGD	1:30:00 PM	1.3359	1.3362			N/A
5/7/2019	CHFSGD	3:30:00 PM	1.3353	1.3357			N/A

5/7/2019	CHFSGD.fx	9:30:00 AM	1.33915	1.33922			N/A
5/7/2019	CHFSGD.fx	11:30:00 AM	1.33703	1.33699			N/A
5/7/2019	CHFSGD.fx	1:30:00 PM	1.33607	1.33615			N/A
5/7/2019	CHFSGD.fx	3:30:00 PM	1.33543	1.33547			N/A
5/7/2019	CHFZAR	9:30:00 AM	14.1923	14.2028			N/A
5/7/2019	CHFZAR	11:30:00 AM	14.1903	14.2045			N/A
5/7/2019	CHFZAR	1:30:00 PM	14.175	14.1867			N/A
5/7/2019	CHFZAR	3:30:00 PM	14.1342	14.1491			N/A
5/7/2019	CZKJPY	9:30:00 AM					N/A
5/7/2019	CZKJPY	11:30:00 AM	4.819	4.822			N/A
5/7/2019	CZKJPY	1:30:00 PM	4.818	4.821			N/A
5/7/2019	CZKJPY	3:30:00 PM					N/A
5/7/2019	DAX30.i	9:30:00 AM	12316.19	12312.19			N/A
5/7/2019	DAX30.i	11:30:00 AM	12286.69	12283.44			N/A
5/7/2019	DAX30.i	1:30:00 PM	12230.19	12227.19			N/A
5/7/2019	DAX30.i	3:30:00 PM	12233.69	12231.44			N/A
5/7/2019	DJ30.i	9:30:00 AM					N/A
5/7/2019	DJ30.i	11:30:00 AM					N/A
5/7/2019	DJ30.i	1:30:00 PM					N/A
5/7/2019	DJ30.i	3:30:00 PM					N/A
5/7/2019	DKKJPY	9:30:00 AM					N/A
5/7/2019	DKKJPY	11:30:00 AM	16.59	16.61			N/A
5/7/2019	DKKJPY	1:30:00 PM	16.59	16.61			N/A
5/7/2019	DKKJPY	3:30:00 PM	16.58	16.6			N/A
5/7/2019	EURAUD	9:30:00 AM	1.59268	1.59268			N/A
5/7/2019	EURAUD	11:30:00 AM	1.5937	1.5939			N/A
5/7/2019	EURAUD	1:30:00 PM	1.59536	1.59572			N/A
5/7/2019	EURAUD	3:30:00 PM	1.59426	1.59469			N/A
5/7/2019	EURAUD.fx	9:30:00 AM	1.5929	1.59246			N/A
5/7/2019	EURAUD.fx	11:30:00 AM	1.5939	1.59368			N/A
5/7/2019	EURAUD.fx	1:30:00 PM	1.59556	1.5955			N/A
5/7/2019	EURAUD.fx	3:30:00 PM	1.59447	1.59448			N/A
5/7/2019	EURCAD	9:30:00 AM	1.50508	1.50584			N/A
5/7/2019	EURCAD	11:30:00 AM	1.50413	1.50482			N/A

5/7/2019	EURCAD	1:30:00 PM	1.50558	1.50631			N/A
5/7/2019	EURCAD	3:30:00 PM	1.50602	1.50674			N/A
5/7/2019	EURCAD.fx	9:30:00 AM	1.5055	1.50542			N/A
5/7/2019	EURCAD.fx	11:30:00 AM	1.50456	1.5044			N/A
5/7/2019	EURCAD.fx	1:30:00 PM	1.50601	1.50588			N/A
5/7/2019	EURCAD.fx	3:30:00 PM	1.50641	1.5063			N/A
5/7/2019	EURCHF	9:30:00 AM	1.14009	1.14014			N/A
5/7/2019	EURCHF	11:30:00 AM	1.1405	1.14061			N/A
5/7/2019	EURCHF	1:30:00 PM	1.14169	1.14169			N/A
5/7/2019	EURCHF	3:30:00 PM	1.14166	1.14173			N/A
5/7/2019	EURCHF.fx	9:30:00 AM	1.14014	1.14008			N/A
5/7/2019	EURCHF.fx	11:30:00 AM	1.14054	1.14055			N/A
5/7/2019	EURCHF.fx	1:30:00 PM	1.14174	1.14163			N/A
5/7/2019	EURCHF.fx	3:30:00 PM	1.14171	1.14167			N/A
5/7/2019	EURCZK	9:30:00 AM	25.671	25.705			N/A
5/7/2019	EURCZK	11:30:00 AM					N/A
5/7/2019	EURCZK	1:30:00 PM	25.686	25.723			N/A
5/7/2019	EURCZK	3:30:00 PM	25.687	25.726			N/A
5/7/2019	EURDKK	9:30:00 AM	7.465	7.4659			N/A
5/7/2019	EURDKK	11:30:00 AM	7.4654	7.4661			N/A
5/7/2019	EURDKK	1:30:00 PM	7.4641	7.4653			N/A
5/7/2019	EURDKK	3:30:00 PM	7.4647	7.4654			N/A
5/7/2019	EURGBP	9:30:00 AM	0.85479	0.85482			N/A
5/7/2019	EURGBP	11:30:00 AM	0.85519	0.8552			N/A
5/7/2019	EURGBP	1:30:00 PM	0.85603	0.85602			N/A
5/7/2019	EURGBP	3:30:00 PM	0.85674	0.8568			N/A
5/7/2019	EURGBP.fx	9:30:00 AM	0.85484	0.85477			N/A
5/7/2019	EURGBP.fx	11:30:00 AM	0.85522	0.85515			N/A
5/7/2019	EURGBP.fx	1:30:00 PM	0.85607	0.85597			N/A
5/7/2019	EURGBP.fx	3:30:00 PM	0.85678	0.85675			N/A
5/7/2019	EURHKD	9:30:00 AM	8.7996	8.8039			N/A
5/7/2019	EURHKD	11:30:00 AM	8.7856	8.7895			N/A
5/7/2019	EURHKD	1:30:00 PM	8.7869	8.7911			N/A
5/7/2019	EURHKD	3:30:00 PM	8.7785	8.7827			N/A

5/7/2019	EURHKD.fx	9:30:00 AM	8.80243	8.80111			N/A
5/7/2019	EURHKD.fx	11:30:00 AM	8.78842	8.78656			N/A
5/7/2019	EURHKD.fx	1:30:00 PM	8.78978	8.78828			N/A
5/7/2019	EURHKD.fx	3:30:00 PM	8.7812	8.77988			N/A
5/7/2019	EURHUF	9:30:00 AM	323.33	323.55			N/A
5/7/2019	EURHUF	11:30:00 AM	323.53	324.16			N/A
5/7/2019	EURHUF	1:30:00 PM	323.77	324.42			N/A
5/7/2019	EURHUF	3:30:00 PM	323.94	324.68			N/A
5/7/2019	EURHUF.fx	9:30:00 AM	323.59	323.318			N/A
5/7/2019	EURHUF.fx	11:30:00 AM	323.835	324.018			N/A
5/7/2019	EURHUF.fx	1:30:00 PM	324.099	324.288			N/A
5/7/2019	EURHUF.fx	3:30:00 PM	324.217	324.404			N/A
5/7/2019	EURJPY	9:30:00 AM	124.24	124.229			N/A
5/7/2019	EURJPY	11:30:00 AM	123.879	123.877			N/A
5/7/2019	EURJPY	1:30:00 PM	123.872	123.867			N/A
5/7/2019	EURJPY	3:30:00 PM	123.795	123.801			N/A
5/7/2019	EURJPY.fx	9:30:00 AM	124.243	124.225			N/A
5/7/2019	EURJPY.fx	11:30:00 AM	123.881	123.874			N/A
5/7/2019	EURJPY.fx	1:30:00 PM	123.875	123.862			N/A
5/7/2019	EURJPY.fx	3:30:00 PM	123.798	123.797			N/A
5/7/2019	EURMXN	9:30:00 AM	21.2528	21.2679			N/A
5/7/2019	EURMXN	11:30:00 AM	21.2547	21.2713			N/A
5/7/2019	EURMXN	1:30:00 PM	21.2703	21.2876			N/A
5/7/2019	EURMXN	3:30:00 PM	21.2974	21.3111			N/A
5/7/2019	EURMXN.fx	9:30:00 AM	21.2606	21.2599			N/A
5/7/2019	EURMXN.fx	11:30:00 AM	21.2642	21.2628			N/A
5/7/2019	EURMXN.fx	1:30:00 PM	21.2794	21.2785			N/A
5/7/2019	EURMXN.fx	3:30:00 PM	21.3067	21.3018			N/A
5/7/2019	EURNOK	9:30:00 AM	9.7552	9.7669			N/A
5/7/2019	EURNOK	11:30:00 AM	9.744	9.7552			N/A
5/7/2019	EURNOK	1:30:00 PM	9.7417	9.7538			N/A
5/7/2019	EURNOK	3:30:00 PM	9.7515	9.763			N/A
5/7/2019	EURNOK.fx	9:30:00 AM	9.76051	9.76148			N/A
5/7/2019	EURNOK.fx	11:30:00 AM	9.74946	9.74964			N/A

5/7/2019	EURNOK.fx	1:30:00 PM	9.74729	9.74837			N/A
5/7/2019	EURNOK.fx	3:30:00 PM	9.75695	9.75749			N/A
5/7/2019	EURNZD	9:30:00 AM	1.69387	1.69454			N/A
5/7/2019	EURNZD	11:30:00 AM	1.69416	1.6948			N/A
5/7/2019	EURNZD	1:30:00 PM	1.69648	1.69713			N/A
5/7/2019	EURNZD	3:30:00 PM	1.69628	1.69698			N/A
5/7/2019	EURNZD.fx	9:30:00 AM	1.6943	1.6941			N/A
5/7/2019	EURNZD.fx	11:30:00 AM	1.69458	1.69435			N/A
5/7/2019	EURNZD.fx	1:30:00 PM	1.69691	1.69671			N/A
5/7/2019	EURNZD.fx	3:30:00 PM	1.6967	1.69654			N/A
5/7/2019	EURPLN	9:30:00 AM	4.2819	4.2837			N/A
5/7/2019	EURPLN	11:30:00 AM	4.2833	4.2864			N/A
5/7/2019	EURPLN	1:30:00 PM	4.2848	4.2879			N/A
5/7/2019	EURPLN	3:30:00 PM	4.2846	4.2878			N/A
5/7/2019	EURPLN.fx	9:30:00 AM	4.2815	4.28422			N/A
5/7/2019	EURPLN.fx	11:30:00 AM	4.28267	4.28682			N/A
5/7/2019	EURPLN.fx	1:30:00 PM	4.28417	4.28842			N/A
5/7/2019	EURPLN.fx	3:30:00 PM	4.28397	4.28842			N/A
5/7/2019	EURRUB	9:30:00 AM					N/A
5/7/2019	EURRUB	11:30:00 AM	72.67	73.103			N/A
5/7/2019	EURRUB	1:30:00 PM	72.652	73.088			N/A
5/7/2019	EURRUB	3:30:00 PM	72.45	72.884			N/A
5/7/2019	EURSEK	9:30:00 AM	10.7051	10.7069			N/A
5/7/2019	EURSEK	11:30:00 AM	10.6925	10.6918			N/A
5/7/2019	EURSEK	1:30:00 PM	10.7028	10.7067			N/A
5/7/2019	EURSEK	3:30:00 PM	10.7111	10.7123			N/A
5/7/2019	EURSEK.fx	9:30:00 AM	10.70661	10.70523			N/A
5/7/2019	EURSEK.fx	11:30:00 AM	10.69418	10.69024			N/A
5/7/2019	EURSEK.fx	1:30:00 PM	10.70463	10.70487			N/A
5/7/2019	EURSEK.fx	3:30:00 PM	10.71256	10.71061			N/A
5/7/2019	EURSGD	9:30:00 AM	1.5265	1.5272			N/A
5/7/2019	EURSGD	11:30:00 AM	1.5246	1.5249			N/A
5/7/2019	EURSGD	1:30:00 PM	1.525	1.5249			N/A
5/7/2019	EURSGD	3:30:00 PM	1.5243	1.5251			N/A

5/7/2019	EURSGD.fx	9:30:00 AM	1.52686	1.5268			N/A
5/7/2019	EURSGD.fx	11:30:00 AM	1.52503	1.52492			N/A
5/7/2019	EURSGD.fx	1:30:00 PM	1.52543	1.52538			N/A
5/7/2019	EURSGD.fx	3:30:00 PM	1.52464	1.52467			N/A
5/7/2019	EURUSD	9:30:00 AM	1.12147	1.12145			N/A
5/7/2019	EURUSD	11:30:00 AM	1.11957	1.11952			N/A
5/7/2019	EURUSD	1:30:00 PM	1.11977	1.11974		20	N/A
5/7/2019	EURUSD	3:30:00 PM	1.11867	1.11865			N/A
5/7/2019	EURUSD.fx	9:30:00 AM	1.12167	1.12154			N/A
5/7/2019	EURUSD.fx	11:30:00 AM	1.11978	1.11961			N/A
5/7/2019	EURUSD.fx	1:30:00 PM	1.11998	1.11983			N/A
5/7/2019	EURUSD.fx	3:30:00 PM	1.11888	1.11874			N/A
5/7/2019	EURZAR	9:30:00 AM	16.1839	16.1988			N/A
5/7/2019	EURZAR	11:30:00 AM	16.1867	16.2055			N/A
5/7/2019	EURZAR	1:30:00 PM	16.1857	16.2004			N/A
5/7/2019	EURZAR	3:30:00 PM	16.139	16.1585			N/A
5/7/2019	EURZAR.fx	9:30:00 AM	16.18306	16.20008			N/A
5/7/2019	EURZAR.fx	11:30:00 AM	16.18658	16.20535			N/A
5/7/2019	EURZAR.fx	1:30:00 PM	16.18502	16.20103			N/A
5/7/2019	EURZAR.fx	3:30:00 PM	16.13925	16.15861			N/A
5/7/2019	GBPAUD	9:30:00 AM	1.86376	1.86404			N/A
5/7/2019	GBPAUD	11:30:00 AM	1.86428	1.86451			N/A
5/7/2019	GBPAUD	1:30:00 PM	1.86437	1.86485			N/A
5/7/2019	GBPAUD	3:30:00 PM	1.86142	1.86213			N/A
5/7/2019	GBPAUD.fx	9:30:00 AM	1.86417	1.86364			N/A
5/7/2019	GBPAUD.fx	11:30:00 AM	1.86468	1.86413			N/A
5/7/2019	GBPAUD.fx	1:30:00 PM	1.86477	1.86445			N/A
5/7/2019	GBPAUD.fx	3:30:00 PM	1.8618	1.86172			N/A
5/7/2019	GBPCAD	9:30:00 AM	1.76088	1.76141			N/A
5/7/2019	GBPCAD	11:30:00 AM	1.75904	1.75943			N/A
5/7/2019	GBPCAD	1:30:00 PM	1.75901	1.75947			N/A
5/7/2019	GBPCAD	3:30:00 PM	1.75794	1.75856			N/A
5/7/2019	GBPCAD.fx	9:30:00 AM	1.76128	1.76102			N/A
5/7/2019	GBPCAD.fx	11:30:00 AM	1.75943	1.75904			N/A

5/7/2019	GBPCAD.fx	1:30:00 PM	1.75941	1.75908			N/A
5/7/2019	GBPCAD.fx	3:30:00 PM	1.75834	1.75817			N/A
5/7/2019	GBPCHF	9:30:00 AM	1.33357	1.33394			N/A
5/7/2019	GBPCHF	11:30:00 AM	1.33355	1.33382			N/A
5/7/2019	GBPCHF	1:30:00 PM	1.33364	1.3338			N/A
5/7/2019	GBPCHF	3:30:00 PM	1.33243	1.33276			N/A
5/7/2019	GBPCHF.fx	9:30:00 AM	1.33375	1.33374			N/A
5/7/2019	GBPCHF.fx	11:30:00 AM	1.33374	1.33362			N/A
5/7/2019	GBPCHF.fx	1:30:00 PM	1.33382	1.33361			N/A
5/7/2019	GBPCHF.fx	3:30:00 PM	1.33262	1.33256			N/A
5/7/2019	GBPCZK	9:30:00 AM	30.041	30.057			N/A
5/7/2019	GBPCZK	11:30:00 AM	30.044	30.063			N/A
5/7/2019	GBPCZK	1:30:00 PM	30.018	30.036			N/A
5/7/2019	GBPCZK	3:30:00 PM	29.997	30.013			N/A
5/7/2019	GBPDKK	9:30:00 AM	8.73	8.74			N/A
5/7/2019	GBPDKK	11:30:00 AM	8.726	8.736			N/A
5/7/2019	GBPDKK	1:30:00 PM	8.717	8.727			N/A
5/7/2019	GBPDKK	3:30:00 PM	8.709	8.72			N/A
5/7/2019	GBPDKK.fx	9:30:00 AM	8.7281	8.7406			N/A
5/7/2019	GBPDKK.fx	11:30:00 AM	8.7243	8.7362			N/A
5/7/2019	GBPDKK.fx	1:30:00 PM	8.7155	8.7274			N/A
5/7/2019	GBPDKK.fx	3:30:00 PM	8.7079	8.72			N/A
5/7/2019	GBPHKD	9:30:00 AM	10.2915	10.297			N/A
5/7/2019	GBPHKD	11:30:00 AM	10.2715	10.2751			N/A
5/7/2019	GBPHKD	1:30:00 PM	10.2636	10.2669			N/A
5/7/2019	GBPHKD	3:30:00 PM	10.2437	10.2493			N/A
5/7/2019	GBPHUF	9:30:00 AM	378.24	378.11			N/A
5/7/2019	GBPHUF	11:30:00 AM	378.4	378.85			N/A
5/7/2019	GBPHUF	1:30:00 PM	378.33	378.77			N/A
5/7/2019	GBPHUF	3:30:00 PM	378.15	378.6			N/A
5/7/2019	GBPJPY	9:30:00 AM	145.317	145.345			N/A
5/7/2019	GBPJPY	11:30:00 AM	144.849	144.864			N/A
5/7/2019	GBPJPY	1:30:00 PM	144.7	144.71			N/A
5/7/2019	GBPJPY	3:30:00 PM	144.484	144.513			N/A

5/7/2019	GBPJPY.fx	9:30:00 AM	145.337	145.326			N/A
5/7/2019	GBPJPY.fx	11:30:00 AM	144.868	144.844			N/A
5/7/2019	GBPJPY.fx	1:30:00 PM	144.72	144.69			N/A
5/7/2019	GBPJPY.fx	3:30:00 PM	144.504	144.492			N/A
5/7/2019	GBPMXN	9:30:00 AM	24.8593	24.8674			N/A
5/7/2019	GBPMXN	11:30:00 AM	24.8519	24.8622			N/A
5/7/2019	GBPMXN	1:30:00 PM	24.8456	24.8558			N/A
5/7/2019	GBPMXN	3:30:00 PM	24.8567	24.8657			N/A
5/7/2019	GBPNOK	9:30:00 AM	11.4136	11.4241			N/A
5/7/2019	GBPNOK	11:30:00 AM	11.3958	11.4051			N/A
5/7/2019	GBPNOK	1:30:00 PM	11.3829	11.3919			N/A
5/7/2019	GBPNOK	3:30:00 PM	11.3834	11.3935			N/A
5/7/2019	GBPNOK.fx	9:30:00 AM	11.41827	11.41926			N/A
5/7/2019	GBPNOK.fx	11:30:00 AM	11.40049	11.40019			N/A
5/7/2019	GBPNOK.fx	1:30:00 PM	11.38787	11.3872			N/A
5/7/2019	GBPNOK.fx	3:30:00 PM	11.38818	11.38838			N/A
5/7/2019	GBPNZD	9:30:00 AM	1.98169	1.98226			N/A
5/7/2019	GBPNZD	11:30:00 AM	1.98111	1.98155			N/A
5/7/2019	GBPNZD	1:30:00 PM	1.98209	1.98246			N/A
5/7/2019	GBPNZD	3:30:00 PM	1.98006	1.9805			N/A
5/7/2019	GBPNZD.fx	9:30:00 AM	1.98207	1.98188			N/A
5/7/2019	GBPNZD.fx	11:30:00 AM	1.98147	1.98116			N/A
5/7/2019	GBPNZD.fx	1:30:00 PM	1.98246	1.98209			N/A
5/7/2019	GBPNZD.fx	3:30:00 PM	1.98042	1.98012			N/A
5/7/2019	GBPPLN	9:30:00 AM	5.0103	5.0102			N/A
5/7/2019	GBPPLN	11:30:00 AM	5.01	5.0111			N/A
5/7/2019	GBPPLN	1:30:00 PM	5.0068	5.0083			N/A
5/7/2019	GBPPLN	3:30:00 PM	5.0021	5.0037			N/A
5/7/2019	GBPPLN.fx	9:30:00 AM	5.00814	5.01236			N/A
5/7/2019	GBPPLN.fx	11:30:00 AM	5.00779	5.01318			N/A
5/7/2019	GBPPLN.fx	1:30:00 PM	5.00468	5.01031			N/A
5/7/2019	GBPPLN.fx	3:30:00 PM	4.99996	5.00594			N/A
5/7/2019	GBPSEK	9:30:00 AM	12.521	12.5269			N/A
5/7/2019	GBPSEK	11:30:00 AM	12.5017	12.5033			N/A

5/7/2019	GBPSEK	1:30:00 PM	12.5022	12.5087			N/A
5/7/2019	GBPSEK	3:30:00 PM	12.501	12.5055			N/A
5/7/2019	GBPSEK.fx	9:30:00 AM	12.51716	12.53077			N/A
5/7/2019	GBPSEK.fx	11:30:00 AM	12.49808	12.5071			N/A
5/7/2019	GBPSEK.fx	1:30:00 PM	12.49849	12.51254			N/A
5/7/2019	GBPSEK.fx	3:30:00 PM	12.49753	12.50922			N/A
5/7/2019	GBPSGD	9:30:00 AM	1.7858	1.7864			N/A
5/7/2019	GBPSGD	11:30:00 AM	1.7831	1.7834			N/A
5/7/2019	GBPSGD	1:30:00 PM	1.7818	1.7822			N/A
5/7/2019	GBPSGD	3:30:00 PM	1.7793	1.7799			N/A
5/7/2019	GBPSGD.fx	9:30:00 AM	1.78404	1.78825			N/A
5/7/2019	GBPSGD.fx	11:30:00 AM	1.78123	1.7852			N/A
5/7/2019	GBPSGD.fx	1:30:00 PM	1.77992	1.78404			N/A
5/7/2019	GBPSGD.fx	3:30:00 PM	1.77745	1.78171			N/A
5/7/2019	GBPUSD	9:30:00 AM	1.3121	1.31206			N/A
5/7/2019	GBPUSD	11:30:00 AM	1.30946	1.30915			N/A
5/7/2019	GBPUSD	1:30:00 PM	1.3084	1.30815		8400	N/A
5/7/2019	GBPUSD	3:30:00 PM	1.30595	1.30585			N/A
5/7/2019	GBPUSD.fx	9:30:00 AM	1.31216	1.31201			N/A
5/7/2019	GBPUSD.fx	11:30:00 AM	1.30951	1.30909			N/A
5/7/2019	GBPUSD.fx	1:30:00 PM	1.30846	1.3081			N/A
5/7/2019	GBPUSD.fx	3:30:00 PM	1.306	1.30577			N/A
5/7/2019	GBPZAR	9:30:00 AM	18.9295	18.9524			N/A
5/7/2019	GBPZAR	11:30:00 AM	18.9254	18.9507			N/A
5/7/2019	GBPZAR	1:30:00 PM	18.9046	18.926			N/A
5/7/2019	GBPZAR	3:30:00 PM	18.8333	18.8621			N/A
5/7/2019	GBPZAR.fx	9:30:00 AM	18.936	18.947			N/A
5/7/2019	GBPZAR.fx	11:30:00 AM	18.9326	18.9433			N/A
5/7/2019	GBPZAR.fx	1:30:00 PM	18.9112	18.9183			N/A
5/7/2019	GBPZAR.fx	3:30:00 PM	18.8408	18.8551			N/A
5/7/2019	GOLD	9:30:00 AM	1282.77	1282.94			N/A
5/7/2019	GOLD	11:30:00 AM	1281.29	1281.36			N/A
5/7/2019	GOLD	1:30:00 PM	1281.56	1281.89			N/A
5/7/2019	GOLD	3:30:00 PM	1279.43	1279.1			N/A

5/7/2019	HKDJPY	9:30:00 AM	14.11	14.12			N/A
5/7/2019	HKDJPY	11:30:00 AM	14.1	14.11			N/A
5/7/2019	HKDJPY	1:30:00 PM	14.1	14.1			N/A
5/7/2019	HKDJPY	3:30:00 PM	14.1	14.11			N/A
5/7/2019	HKDJPY.fx	9:30:00 AM	14.11	14.117			N/A
5/7/2019	HKDJPY.fx	11:30:00 AM	14.094	14.1			N/A
5/7/2019	HKDJPY.fx	1:30:00 PM	14.089	14.096			N/A
5/7/2019	HKDJPY.fx	3:30:00 PM	14.095	14.102			N/A
5/7/2019	HUFJPY	9:30:00 AM	0.384	0.3842			N/A
5/7/2019	HUFJPY	11:30:00 AM	0.3828	0.3831			N/A
5/7/2019	HUFJPY	1:30:00 PM	0.3823	0.3826			N/A
5/7/2019	HUFJPY	3:30:00 PM	0.3818	0.3821			N/A
5/7/2019	JP225.i	9:30:00 AM	22053.96	22058.96			N/A
5/7/2019	JP225.i	11:30:00 AM	21968.96	21978.96			N/A
5/7/2019	JP225.i	1:30:00 PM	21918.96	21936.08			N/A
5/7/2019	JP225.i	3:30:00 PM	21903.96	21917.3			N/A
5/7/2019	MXNJPY	9:30:00 AM					N/A
5/7/2019	MXNJPY	11:30:00 AM	5.83	5.84			N/A
5/7/2019	MXNJPY	1:30:00 PM					N/A
5/7/2019	MXNJPY	3:30:00 PM	5.81	5.82			N/A
5/7/2019	NASDAQ.i	9:30:00 AM					N/A
5/7/2019	NASDAQ.i	11:30:00 AM					N/A
5/7/2019	NASDAQ.i	1:30:00 PM					N/A
5/7/2019	NASDAQ.i	3:30:00 PM					N/A
5/7/2019	NOKJPY	9:30:00 AM	12.72	12.75			N/A
5/7/2019	NOKJPY	11:30:00 AM	12.7	12.73			N/A
5/7/2019	NOKJPY	1:30:00 PM	12.7	12.73			N/A
5/7/2019	NOKJPY	3:30:00 PM	12.68	12.71			N/A
5/7/2019	NOKJPY.fx	9:30:00 AM	12.725	12.73			N/A
5/7/2019	NOKJPY.fx	11:30:00 AM	12.704	12.709			N/A
5/7/2019	NOKJPY.fx	1:30:00 PM	12.704	12.711			N/A
5/7/2019	NOKJPY.fx	3:30:00 PM	12.685	12.692			N/A
5/7/2019	NZDCAD	9:30:00 AM	0.88831	0.88889			N/A
5/7/2019	NZDCAD	11:30:00 AM	0.88757	0.8881			N/A

5/7/2019	NZDCAD	1:30:00 PM	0.88728	0.88785			N/A
5/7/2019	NZDCAD	3:30:00 PM	0.88753	0.8882			N/A
5/7/2019	NZDCAD.fx	9:30:00 AM	0.88871	0.88856			N/A
5/7/2019	NZDCAD.fx	11:30:00 AM	0.88791	0.88775			N/A
5/7/2019	NZDCAD.fx	1:30:00 PM	0.88762	0.8875			N/A
5/7/2019	NZDCAD.fx	3:30:00 PM	0.88787	0.88786			N/A
5/7/2019	NZDCHF	9:30:00 AM	0.67261	0.67326			N/A
5/7/2019	NZDCHF	11:30:00 AM	0.67277	0.67343			N/A
5/7/2019	NZDCHF	1:30:00 PM	0.67252	0.67318			N/A
5/7/2019	NZDCHF	3:30:00 PM	0.67259	0.67325			N/A
5/7/2019	NZDCHF.fx	9:30:00 AM	0.67296	0.6729			N/A
5/7/2019	NZDCHF.fx	11:30:00 AM	0.67311	0.67308			N/A
5/7/2019	NZDCHF.fx	1:30:00 PM	0.67286	0.67282			N/A
5/7/2019	NZDCHF.fx	3:30:00 PM	0.67294	0.67289			N/A
5/7/2019	NZDCZK	9:30:00 AM	15.156	15.165			N/A
5/7/2019	NZDCZK	11:30:00 AM	15.162	15.173			N/A
5/7/2019	NZDCZK	1:30:00 PM	15.143	15.153			N/A
5/7/2019	NZDCZK	3:30:00 PM	15.145	15.158			N/A
5/7/2019	NZDDKK	9:30:00 AM					N/A
5/7/2019	NZDDKK	11:30:00 AM					N/A
5/7/2019	NZDDKK	1:30:00 PM	4.397	4.401			N/A
5/7/2019	NZDDKK	3:30:00 PM					N/A
5/7/2019	NZDHKD	9:30:00 AM	5.1921	5.195			N/A
5/7/2019	NZDHKD	11:30:00 AM	5.1828	5.1857			N/A
5/7/2019	NZDHKD	1:30:00 PM	5.1775	5.179			N/A
5/7/2019	NZDHKD	3:30:00 PM	5.1722	5.1744			N/A
5/7/2019	NZDHUF	9:30:00 AM	190.82	190.79			N/A
5/7/2019	NZDHUF	11:30:00 AM	190.93	191.22			N/A
5/7/2019	NZDHUF	1:30:00 PM	190.83	191.09			N/A
5/7/2019	NZDHUF	3:30:00 PM	190.91	191.21			N/A
5/7/2019	NZDJPY	9:30:00 AM	73.3	73.357			N/A
5/7/2019	NZDJPY	11:30:00 AM	73.078	73.142			N/A
5/7/2019	NZDJPY	1:30:00 PM	72.976	73.035			N/A
5/7/2019	NZDJPY	3:30:00 PM	72.934	73.002			N/A

5/7/2019	NZDJPY.fx	9:30:00 AM	73.331	73.324			N/A
5/7/2019	NZDJPY.fx	11:30:00 AM	73.11	73.11			N/A
5/7/2019	NZDJPY.fx	1:30:00 PM	73.008	73.002			N/A
5/7/2019	NZDJPY.fx	3:30:00 PM	72.966	72.97			N/A
5/7/2019	NZDMXN	9:30:00 AM	12.5424	12.5456			N/A
5/7/2019	NZDMXN	11:30:00 AM	12.5418	12.5457			N/A
5/7/2019	NZDMXN	1:30:00 PM	12.5334	12.5374			N/A
5/7/2019	NZDMXN	3:30:00 PM	12.5504	12.5552			N/A
5/7/2019	NZDNOK	9:30:00 AM	5.7568	5.7607			N/A
5/7/2019	NZDNOK	11:30:00 AM	5.7501	5.753			N/A
5/7/2019	NZDNOK	1:30:00 PM	5.7411	5.7438			N/A
5/7/2019	NZDNOK	3:30:00 PM	5.7475	5.7507			N/A
5/7/2019	NZDPLN	9:30:00 AM	2.5269	2.5282			N/A
5/7/2019	NZDPLN	11:30:00 AM	2.527	2.5282			N/A
5/7/2019	NZDPLN	1:30:00 PM	2.5249	2.5257			N/A
5/7/2019	NZDPLN	3:30:00 PM	2.525	2.5263			N/A
5/7/2019	NZDSEK	9:30:00 AM	6.3135	6.3188			N/A
5/7/2019	NZDSEK	11:30:00 AM	6.305	6.3091			N/A
5/7/2019	NZDSEK	1:30:00 PM	6.3032	6.3085			N/A
5/7/2019	NZDSEK	3:30:00 PM	6.3093	6.3137			N/A
5/7/2019	NZDSGD	9:30:00 AM	0.901	0.9015			N/A
5/7/2019	NZDSGD	11:30:00 AM	0.8997	0.9002			N/A
5/7/2019	NZDSGD	1:30:00 PM	0.8988	0.8993			N/A
5/7/2019	NZDSGD	3:30:00 PM	0.8984	0.899			N/A
5/7/2019	NZDSGD.fx	9:30:00 AM	0.90098	0.90141			N/A
5/7/2019	NZDSGD.fx	11:30:00 AM	0.89972	0.90018			N/A
5/7/2019	NZDSGD.fx	1:30:00 PM	0.89879	0.89921			N/A
5/7/2019	NZDSGD.fx	3:30:00 PM	0.89838	0.89891			N/A
5/7/2019	NZDUSD	9:30:00 AM	0.66194	0.662			N/A
5/7/2019	NZDUSD	11:30:00 AM	0.66072	0.66072			N/A
5/7/2019	NZDUSD	1:30:00 PM	0.65999	0.66001			N/A
5/7/2019	NZDUSD	3:30:00 PM	0.65935	0.6594			N/A
5/7/2019	NZDUSD.fx	9:30:00 AM	0.66202	0.66201			N/A
5/7/2019	NZDUSD.fx	11:30:00 AM	0.66079	0.66073			N/A

5/7/2019	NZDUSD.fx	1:30:00 PM	0.66006	0.66002			N/A
5/7/2019	NZDUSD.fx	3:30:00 PM	0.65943	0.65941			N/A
5/7/2019	NZDZAR	9:30:00 AM	9.5444	9.5594			N/A
5/7/2019	NZDZAR	11:30:00 AM	9.5452	9.5615			N/A
5/7/2019	NZDZAR	1:30:00 PM	9.5318	9.546			N/A
5/7/2019	NZDZAR	3:30:00 PM	9.5047	9.5221			N/A
5/7/2019	SEKJPY	9:30:00 AM	11.61	11.61			N/A
5/7/2019	SEKJPY	11:30:00 AM	11.58	11.59			N/A
5/7/2019	SEKJPY	1:30:00 PM					N/A
5/7/2019	SEKJPY	3:30:00 PM	11.56	11.57			N/A
5/7/2019	SEKJPY.fx	9:30:00 AM	11.597	11.612			N/A
5/7/2019	SEKJPY.fx	11:30:00 AM	11.58	11.592			N/A
5/7/2019	SEKJPY.fx	1:30:00 PM	11.563	11.58			N/A
5/7/2019	SEKJPY.fx	3:30:00 PM	11.549	11.564			N/A
5/7/2019	SGDJPY	9:30:00 AM	81.34	81.36			N/A
5/7/2019	SGDJPY	11:30:00 AM	81.25	81.24			N/A
5/7/2019	SGDJPY	1:30:00 PM	81.18	81.2			N/A
5/7/2019	SGDJPY	3:30:00 PM	81.2	81.2			N/A
5/7/2019	SILVER	9:30:00 AM	14.73	15.11			N/A
5/7/2019	SILVER	11:30:00 AM	14.68	15.05			N/A
5/7/2019	SILVER	1:30:00 PM	14.65	15.03			N/A
5/7/2019	SILVER	3:30:00 PM	14.64	15.01			N/A
5/7/2019	SPX500.i	9:30:00 AM	2930.11	2929.39			N/A
5/7/2019	SPX500.i	11:30:00 AM	2922.59	2923.39			N/A
5/7/2019	SPX500.i	1:30:00 PM	2918.34	2918.89			N/A
5/7/2019	SPX500.i	3:30:00 PM	2914.09	2914.64			N/A
5/7/2019	UK100.i	9:30:00 AM	7366.41	7365.74			N/A
5/7/2019	UK100.i	11:30:00 AM	7365.99	7366.49			N/A
5/7/2019	UK100.i	1:30:00 PM	7319.99	7320.49			N/A
5/7/2019	UK100.i	3:30:00 PM	7314.49	7315.07			N/A
5/7/2019	USDCAD	9:30:00 AM	1.34231	1.34222			N/A
5/7/2019	USDCAD	11:30:00 AM	1.34364	1.34375			N/A
5/7/2019	USDCAD	1:30:00 PM	1.34467	1.34475			N/A
5/7/2019	USDCAD	3:30:00 PM	1.3465	1.34632			N/A

5/7/2019	USDCAD.fx	9:30:00 AM	1.34234	1.34219			N/A
5/7/2019	USDCAD.fx	11:30:00 AM	1.34367	1.34371			N/A
5/7/2019	USDCAD.fx	1:30:00 PM	1.34471	1.34471			N/A
5/7/2019	USDCAD.fx	3:30:00 PM	1.34653	1.34627			N/A
5/7/2019	USDCHF	9:30:00 AM	1.01647	1.01656			N/A
5/7/2019	USDCHF	11:30:00 AM	1.01861	1.01866			N/A
5/7/2019	USDCHF	1:30:00 PM	1.01941	1.01946			N/A
5/7/2019	USDCHF	3:30:00 PM	1.0204	1.02044			N/A
5/7/2019	USDCHF.fx	9:30:00 AM	1.01652	1.0165			N/A
5/7/2019	USDCHF.fx	11:30:00 AM	1.01866	1.0186			N/A
5/7/2019	USDCHF.fx	1:30:00 PM	1.01946	1.0194			N/A
5/7/2019	USDCHF.fx	3:30:00 PM	1.02045	1.02038			N/A
5/7/2019	USDCZK	9:30:00 AM	22.911	22.929			N/A
5/7/2019	USDCZK	11:30:00 AM	22.962	22.982			N/A
5/7/2019	USDCZK	1:30:00 PM	22.96	22.981			N/A
5/7/2019	USDCZK	3:30:00 PM	22.985	23.003			N/A
5/7/2019	USDCZK.fx	9:30:00 AM	22.918	22.9227			N/A
5/7/2019	USDCZK.fx	11:30:00 AM	22.9708	22.9722			N/A
5/7/2019	USDCZK.fx	1:30:00 PM	22.9675	22.9712			N/A
5/7/2019	USDCZK.fx	3:30:00 PM	22.9931	22.994			N/A
5/7/2019	USDDKK	9:30:00 AM	6.6558	6.659			N/A
5/7/2019	USDDKK	11:30:00 AM	6.6672	6.6704			N/A
5/7/2019	USDDKK	1:30:00 PM	6.6655	6.6686			N/A
5/7/2019	USDDKK	3:30:00 PM	6.6722	6.6753			N/A
5/7/2019	USDDKK.fx	9:30:00 AM	6.65625	6.657			N/A
5/7/2019	USDDKK.fx	11:30:00 AM	6.66771	6.66814			N/A
5/7/2019	USDDKK.fx	1:30:00 PM	6.66594	6.66649			N/A
5/7/2019	USDDKK.fx	3:30:00 PM	6.67259	6.67328			N/A
5/7/2019	USDHKD	9:30:00 AM	7.8472	7.8475			N/A
5/7/2019	USDHKD	11:30:00 AM	7.8479	7.8483			N/A
5/7/2019	USDHKD	1:30:00 PM	7.8477	7.8477			N/A
5/7/2019	USDHKD	3:30:00 PM	7.8476	7.8478			N/A
5/7/2019	USDHKD.fx	9:30:00 AM	7.84719	7.84768			N/A
5/7/2019	USDHKD.fx	11:30:00 AM	7.84783	7.84836			N/A

5/7/2019	USDHKD.fx	1:30:00 PM	7.84765	7.8482			N/A
5/7/2019	USDHKD.fx	3:30:00 PM					N/A
5/7/2019	USDHUF	9:30:00 AM	288.34	288.36			N/A
5/7/2019	USDHUF	11:30:00 AM	289.1	289.53			N/A
5/7/2019	USDHUF	1:30:00 PM	289.25	289.7			N/A
5/7/2019	USDHUF	3:30:00 PM	289.66	290.09			N/A
5/7/2019	USDHUF.fx	9:30:00 AM	288.555	288.196			N/A
5/7/2019	USDHUF.fx	11:30:00 AM	289.323	289.307			N/A
5/7/2019	USDHUF.fx	1:30:00 PM	289.454	289.48			N/A
5/7/2019	USDHUF.fx	3:30:00 PM	289.855	289.885			N/A
5/7/2019	USDINR	9:30:00 AM	64.33	74.31			N/A
5/7/2019	USDINR	11:30:00 AM	64.36	74.35			N/A
5/7/2019	USDINR	1:30:00 PM					N/A
5/7/2019	USDINR	3:30:00 PM					N/A
5/7/2019	USDJPY	9:30:00 AM	110.761	110.763			N/A
5/7/2019	USDJPY	11:30:00 AM	110.643	110.642			N/A
5/7/2019	USDJPY	1:30:00 PM	110.598	110.611			N/A
5/7/2019	USDJPY	3:30:00 PM	110.65	110.656			N/A
5/7/2019	USDJPY.fx	9:30:00 AM	110.766	110.755			N/A
5/7/2019	USDJPY.fx	11:30:00 AM	110.649	110.635			N/A
5/7/2019	USDJPY.fx	1:30:00 PM	110.604	110.604			N/A
5/7/2019	USDJPY.fx	3:30:00 PM	110.656	110.649			N/A
5/7/2019	USDMXN	9:30:00 AM	18.954	18.958			N/A
5/7/2019	USDMXN	11:30:00 AM	18.989	18.994			N/A
5/7/2019	USDMXN	1:30:00 PM	18.998	19.004			N/A
5/7/2019	USDMXN	3:30:00 PM	19.042	19.043			N/A
5/7/2019	USDMXN.f	9:30:00 AM	18.9584	18.9537			N/A
5/7/2019	USDMXN.f	11:30:00 AM	18.9929	18.9893			N/A
5/7/2019	USDMXN.f	1:30:00 PM	19.0012	19.0004			N/A
5/7/2019	USDMXN.f	3:30:00 PM	19.0462	19.0391			N/A
5/7/2019	USDNOK	9:30:00 AM	8.6993	8.7065			N/A
5/7/2019	USDNOK	11:30:00 AM	8.7042	8.7119			N/A
5/7/2019	USDNOK	1:30:00 PM	8.7	8.708			N/A
5/7/2019	USDNOK	3:30:00 PM	8.7171	8.725			N/A

5/7/2019	USDNOK.fx	9:30:00 AM	8.70319	8.70213			N/A
5/7/2019	USDNOK.fx	11:30:00 AM	8.70813	8.70738			N/A
5/7/2019	USDNOK.fx	1:30:00 PM	8.70404	8.70365			N/A
5/7/2019	USDNOK.fx	3:30:00 PM	8.72109	8.72036			N/A
5/7/2019	USDPLN	9:30:00 AM	3.8184	3.8184			N/A
5/7/2019	USDPLN	11:30:00 AM	3.8265	3.8274			N/A
5/7/2019	USDPLN	1:30:00 PM	3.8269	3.8278			N/A
5/7/2019	USDPLN	3:30:00 PM	3.8305	3.8316			N/A
5/7/2019	USDPLN.fx	9:30:00 AM	3.81758	3.81913			N/A
5/7/2019	USDPLN.fx	11:30:00 AM	3.82578	3.82816			N/A
5/7/2019	USDPLN.fx	1:30:00 PM	3.82606	3.82849			N/A
5/7/2019	USDPLN.fx	3:30:00 PM	3.8297	3.83233			N/A
5/7/2019	USDRUB	9:30:00 AM					N/A
5/7/2019	USDRUB	11:30:00 AM	65.012	65.406			N/A
5/7/2019	USDRUB	1:30:00 PM	64.986	65.379			N/A
5/7/2019	USDRUB	3:30:00 PM	64.873	65.258			N/A
5/7/2019	USDSEK	9:30:00 AM	9.5441	9.5452			N/A
5/7/2019	USDSEK	11:30:00 AM	9.5487	9.5495			N/A
5/7/2019	USDSEK	1:30:00 PM	9.5557	9.5594			N/A
5/7/2019	USDSEK	3:30:00 PM	9.5737	9.5745			N/A
5/7/2019	USDSEK.fx	9:30:00 AM	9.54666	9.54342			N/A
5/7/2019	USDSEK.fx	11:30:00 AM	9.55159	9.54769			N/A
5/7/2019	USDSEK.fx	1:30:00 PM	9.55887	9.5574			N/A
5/7/2019	USDSEK.fx	3:30:00 PM	9.57652	9.57264			N/A
5/7/2019	USDSGD	9:30:00 AM	1.3612	1.3614			N/A
5/7/2019	USDSGD	11:30:00 AM	1.3618	1.3619			N/A
5/7/2019	USDSGD	1:30:00 PM	1.3619	1.3623			N/A
5/7/2019	USDSGD	3:30:00 PM	1.3626	1.3629			N/A
5/7/2019	USDSGD.fx	9:30:00 AM	1.36108	1.36143			N/A
5/7/2019	USDSGD.fx	11:30:00 AM	1.36174	1.36216			N/A
5/7/2019	USDSGD.fx	1:30:00 PM	1.36188	1.36231			N/A
5/7/2019	USDSGD.fx	3:30:00 PM	1.36253	1.36296			N/A
5/7/2019	USDZAR	9:30:00 AM	14.4273	14.441			N/A
5/7/2019	USDZAR	11:30:00 AM	14.4558	14.4736			N/A

5/7/2019	USDZAR	1:30:00 PM	14.4513	14.4661			N/A
5/7/2019	USDZAR	3:30:00 PM	14.4246	14.441			N/A
5/7/2019	USDZAR.fx	9:30:00 AM					N/A
5/7/2019	USDZAR.fx	11:30:00 AM					N/A
5/7/2019	USDZAR.fx	1:30:00 PM					N/A
5/7/2019	USDZAR.fx	3:30:00 PM					N/A
5/7/2019	XAUUSD	9:30:00 AM	1282.77	1282.93			N/A
5/7/2019	XAUUSD	11:30:00 AM	1281.32	1281.36			N/A
5/7/2019	XAUUSD	1:30:00 PM	1281.56	1281.89			N/A
5/7/2019	XAUUSD	3:30:00 PM	1279.41	1279.08			N/A
5/7/2019	ZARJPY	9:30:00 AM	7.66	7.68			N/A
5/7/2019	ZARJPY	11:30:00 AM	7.63	7.65			N/A
5/7/2019	ZARJPY	1:30:00 PM	7.63	7.65			N/A
5/7/2019	ZARJPY	3:30:00 PM	7.65	7.67			N/A
5/7/2019	ZARJPY.fx	9:30:00 AM	7.672	7.673			N/A
5/7/2019	ZARJPY.fx	11:30:00 AM	7.646	7.649			N/A
5/7/2019	ZARJPY.fx	1:30:00 PM	7.648	7.651			N/A
5/7/2019	ZARJPY.fx	3:30:00 PM	7.664	7.667			N/A
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5/8/2019	#CL.f	11:30:00 AM	61.824	61.772			N/A
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5/8/2019	AUDCAD	11:30:00 AM	0.94434	0.94494			N/A
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5/8/2019	AUDCAD	3:30:00 PM	0.94223	0.94287			N/A
5/8/2019	AUDCAD.fx	9:30:00 AM	0.94541	0.94538			N/A
5/8/2019	AUDCAD.fx	11:30:00 AM	0.94468	0.94458			N/A
5/8/2019	AUDCAD.fx	1:30:00 PM	0.94362	0.94358			N/A
5/8/2019	AUDCAD.fx	3:30:00 PM	0.94256	0.94252			N/A
5/8/2019	AUDCHF	9:30:00 AM	0.71502	0.71564			N/A
5/8/2019	AUDCHF	11:30:00 AM	0.71416	0.71469			N/A
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5/8/2019	AUDCHF	3:30:00 PM	0.71356	0.71396			N/A
5/8/2019	AUDCHF.fx	9:30:00 AM	0.71537	0.71529			N/A
5/8/2019	AUDCHF.fx	11:30:00 AM	0.7145	0.71434			N/A

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5/8/2019	AUDCHF.fx	3:30:00 PM	0.7139	0.7136			N/A
5/8/2019	AUDCZK	9:30:00 AM	16.096	16.111			N/A
5/8/2019	AUDCZK	11:30:00 AM	16.092	16.107			N/A
5/8/2019	AUDCZK	1:30:00 PM	16.058	16.072			N/A
5/8/2019	AUDCZK	3:30:00 PM	16.064	16.081			N/A
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5/8/2019	AUDDKK	11:30:00 AM	4.6743	4.6787			N/A
5/8/2019	AUDDKK	1:30:00 PM	4.6648	4.669			N/A
5/8/2019	AUDDKK	3:30:00 PM	4.6668	4.671			N/A
5/8/2019	AUDHKD	9:30:00 AM	5.5082	5.5121			N/A
5/8/2019	AUDHKD	11:30:00 AM	5.5072	5.5102			N/A
5/8/2019	AUDHKD	1:30:00 PM	5.4914	5.494			N/A
5/8/2019	AUDHKD	3:30:00 PM	5.4967	5.4998			N/A
5/8/2019	AUDHUF	9:30:00 AM	202.85	203.06			N/A
5/8/2019	AUDHUF	11:30:00 AM	203.05	203.27			N/A
5/8/2019	AUDHUF	1:30:00 PM	202.63	202.86			N/A
5/8/2019	AUDHUF	3:30:00 PM	202.54	202.77			N/A
5/8/2019	AUDJPY	9:30:00 AM	77.232	77.291			N/A
5/8/2019	AUDJPY	11:30:00 AM	77.296	77.344			N/A
5/8/2019	AUDJPY	1:30:00 PM	76.996	77.036			N/A
5/8/2019	AUDJPY	3:30:00 PM	77.12	77.179			N/A
5/8/2019	AUDJPY.fx	9:30:00 AM	77.266	77.256			N/A
5/8/2019	AUDJPY.fx	11:30:00 AM	77.329	77.308			N/A
5/8/2019	AUDJPY.fx	1:30:00 PM	77.03	77.001			N/A
5/8/2019	AUDJPY.fx	3:30:00 PM	77.155	77.143			N/A
5/8/2019	AUDMXN	9:30:00 AM	13.3461	13.3558			N/A
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5/8/2019	AUDMXN	1:30:00 PM	13.3642	13.3725			N/A
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5/8/2019	AUDNOK	9:30:00 AM	6.1278	6.1323			N/A
5/8/2019	AUDNOK	11:30:00 AM	6.1305	6.1338			N/A
5/8/2019	AUDNOK	1:30:00 PM	6.1397	6.1426			N/A
5/8/2019	AUDNOK	3:30:00 PM	6.1442	6.1481			N/A

5/8/2019	AUDNOK.fx	9:30:00 AM	6.1294	6.1306			N/A
5/8/2019	AUDNOK.fx	11:30:00 AM	6.1321	6.1321			N/A
5/8/2019	AUDNOK.fx	1:30:00 PM	6.1413	6.1409			N/A
5/8/2019	AUDNOK.fx	3:30:00 PM	6.1458	6.1464			N/A
5/8/2019	AUDNZD	9:30:00 AM	1.06504	1.06582			N/A
5/8/2019	AUDNZD	11:30:00 AM	1.06395	1.0647			N/A
5/8/2019	AUDNZD	1:30:00 PM	1.06305	1.06392			N/A
5/8/2019	AUDNZD	3:30:00 PM	1.06268	1.06354			N/A
5/8/2019	AUDNZD.fx	9:30:00 AM	1.06549	1.06536			N/A
5/8/2019	AUDNZD.fx	11:30:00 AM	1.06439	1.06425			N/A
5/8/2019	AUDNZD.fx	1:30:00 PM	1.06348	1.06348			N/A
5/8/2019	AUDNZD.fx	3:30:00 PM	1.06312	1.06307			N/A
5/8/2019	AUDPLN	9:30:00 AM	2.6857	2.6885			N/A
5/8/2019	AUDPLN	11:30:00 AM	2.6855	2.6885			N/A
5/8/2019	AUDPLN	1:30:00 PM	2.6824	2.6853			N/A
5/8/2019	AUDPLN	3:30:00 PM	2.6826	2.6855			N/A
5/8/2019	AUDSEK	9:30:00 AM	6.7208	6.722			N/A
5/8/2019	AUDSEK	11:30:00 AM	6.7141	6.7156			N/A
5/8/2019	AUDSEK	1:30:00 PM	6.7164	6.7156			N/A
5/8/2019	AUDSEK	3:30:00 PM	6.7199	6.7221			N/A
5/8/2019	AUDSEK.fx	9:30:00 AM	6.7161	6.7265			N/A
5/8/2019	AUDSEK.fx	11:30:00 AM	6.7095	6.7199			N/A
5/8/2019	AUDSEK.fx	1:30:00 PM	6.712	6.7199			N/A
5/8/2019	AUDSEK.fx	3:30:00 PM	6.7156	6.7265			N/A
5/8/2019	AUDSGD	9:30:00 AM	0.9556	0.9559			N/A
5/8/2019	AUDSGD	11:30:00 AM	0.9551	0.9553			N/A
5/8/2019	AUDSGD	1:30:00 PM	0.9537	0.9538			N/A
5/8/2019	AUDSGD	3:30:00 PM	0.9542	0.9544			N/A
5/8/2019	AUDSGD.fx	9:30:00 AM	0.95571	0.95579			N/A
5/8/2019	AUDSGD.fx	11:30:00 AM	0.95519	0.95516			N/A
5/8/2019	AUDSGD.fx	1:30:00 PM	0.95375	0.9537			N/A
5/8/2019	AUDSGD.fx	3:30:00 PM	0.95425	0.95425			N/A
5/8/2019	AUDUSD	9:30:00 AM	0.70226	0.70227			N/A
5/8/2019	AUDUSD	11:30:00 AM	0.70204	0.70196			N/A

5/8/2019	AUDUSD	1:30:00 PM	0.69998	0.7			N/A
5/8/2019	AUDUSD	3:30:00 PM	0.70067	0.70066			N/A
5/8/2019	AUDUSD.fx	9:30:00 AM	0.70231	0.70221			N/A
5/8/2019	AUDUSD.fx	11:30:00 AM	0.70209	0.70189			N/A
5/8/2019	AUDUSD.fx	1:30:00 PM	0.70004	0.69992			N/A
5/8/2019	AUDUSD.fx	3:30:00 PM	0.70072	0.70061			N/A
5/8/2019	AUDZAR	9:30:00 AM	10.0968	10.1064			N/A
5/8/2019	AUDZAR	11:30:00 AM	10.0413	10.0533			N/A
5/8/2019	AUDZAR	1:30:00 PM	10.0698	10.0802			N/A
5/8/2019	AUDZAR	3:30:00 PM	10.0426	10.0565			N/A
5/8/2019	AUS200.i	9:30:00 AM	6262.25	6266.75			N/A
5/8/2019	AUS200.i	11:30:00 AM	6276.15	6278.65			N/A
5/8/2019	AUS200.i	1:30:00 PM	6254.65	6257.05			N/A
5/8/2019	AUS200.i	3:30:00 PM	6255.55	6258.15			N/A
5/8/2019	BCHUSD	9:30:00 AM	295.96	297.62			N/A
5/8/2019	BCHUSD	11:30:00 AM	296.35	297.37			N/A
5/8/2019	BCHUSD	1:30:00 PM	293.5	295.07			N/A
5/8/2019	BCHUSD	3:30:00 PM	294.48	296.26			N/A
5/8/2019	CADCHF	9:30:00 AM	0.75633	0.75702			N/A
5/8/2019	CADCHF	11:30:00 AM	0.75597	0.7566			N/A
5/8/2019	CADCHF	1:30:00 PM	0.75437	0.75496			N/A
5/8/2019	CADCHF	3:30:00 PM	0.75707	0.75747			N/A
5/8/2019	CADCHF.fx	9:30:00 AM	0.75667	0.75666			N/A
5/8/2019	CADCHF.fx	11:30:00 AM	0.75631	0.75623			N/A
5/8/2019	CADCHF.fx	1:30:00 PM	0.7547	0.75461			N/A
5/8/2019	CADCHF.fx	3:30:00 PM	0.75741	0.7571			N/A
5/8/2019	CADCZK	9:30:00 AM	17.028	17.045			N/A
5/8/2019	CADCZK	11:30:00 AM	17.038	17.055			N/A
5/8/2019	CADCZK	1:30:00 PM	17.022	17.036			N/A
5/8/2019	CADCZK	3:30:00 PM	17.046	17.064			N/A
5/8/2019	CADDKK	9:30:00 AM					N/A
5/8/2019	CADDKK	11:30:00 AM					N/A
5/8/2019	CADDKK	1:30:00 PM	4.945	4.948			N/A
5/8/2019	CADDKK	3:30:00 PM	4.952	4.956			N/A

5/8/2019	CADHKD	9:30:00 AM	5.8279	5.8318			N/A
5/8/2019	CADHKD	11:30:00 AM	5.8302	5.8339			N/A
5/8/2019	CADHKD	1:30:00 PM	5.8203	5.8235			N/A
5/8/2019	CADHKD	3:30:00 PM	5.8326	5.8364			N/A
5/8/2019	CADHUF	9:30:00 AM	214.63	214.8			N/A
5/8/2019	CADHUF	11:30:00 AM	215.04	215.17			N/A
5/8/2019	CADHUF	1:30:00 PM	214.81	214.96			N/A
5/8/2019	CADHUF	3:30:00 PM	214.97	215.12			N/A
5/8/2019	CADJPY	9:30:00 AM	81.696	81.76			N/A
5/8/2019	CADJPY	11:30:00 AM	81.82	81.883			N/A
5/8/2019	CADJPY	1:30:00 PM	81.596	81.647			N/A
5/8/2019	CADJPY	3:30:00 PM	81.822	81.882			N/A
5/8/2019	CADJPY.fx	9:30:00 AM	81.729	81.725			N/A
5/8/2019	CADJPY.fx	11:30:00 AM	81.853	81.847			N/A
5/8/2019	CADJPY.fx	1:30:00 PM	81.629	81.607			N/A
5/8/2019	CADJPY.fx	3:30:00 PM	81.857	81.847			N/A
5/8/2019	CADMXN	9:30:00 AM	14.1187	14.1302			N/A
5/8/2019	CADMXN	11:30:00 AM	14.1353	14.1452			N/A
5/8/2019	CADMXN	1:30:00 PM	14.1646	14.1753			N/A
5/8/2019	CADMXN	3:30:00 PM	14.1706	14.176			N/A
5/8/2019	CADNOK	9:30:00 AM	6.4807	6.4855			N/A
5/8/2019	CADNOK	11:30:00 AM	6.4889	6.4915			N/A
5/8/2019	CADNOK	1:30:00 PM	6.5065	6.5088			N/A
5/8/2019	CADNOK	3:30:00 PM	6.5183	6.5213			N/A
5/8/2019	CADPLN	9:30:00 AM	2.8417	2.8435			N/A
5/8/2019	CADPLN	11:30:00 AM	2.8431	2.8449			N/A
5/8/2019	CADPLN	1:30:00 PM	2.8432	2.8447			N/A
5/8/2019	CADPLN	3:30:00 PM	2.8469	2.8488			N/A
5/8/2019	CADSEK	9:30:00 AM	7.107	7.1095			N/A
5/8/2019	CADSEK	11:30:00 AM	7.1057	7.1077			N/A
5/8/2019	CADSEK	1:30:00 PM	7.1171	7.1164			N/A
5/8/2019	CADSEK	3:30:00 PM	7.1277	7.131			N/A
5/8/2019	CADSGD	9:30:00 AM	1.0104	1.0107			N/A
5/8/2019	CADSGD	11:30:00 AM	1.0103	1.0106			N/A

5/8/2019	CADSGD	1:30:00 PM	1.0101	1.0103			N/A
5/8/2019	CADSGD	3:30:00 PM	1.0119	1.0122			N/A
5/8/2019	CADZAR	9:30:00 AM	10.6818	10.692			N/A
5/8/2019	CADZAR	11:30:00 AM	10.6314	10.6447			N/A
5/8/2019	CADZAR	1:30:00 PM	10.6735	10.6843			N/A
5/8/2019	CADZAR	3:30:00 PM	10.6553	10.6715			N/A
5/8/2019	CHFCZK	9:30:00 AM	22.509	22.525			N/A
5/8/2019	CHFCZK	11:30:00 AM	22.533	22.549			N/A
5/8/2019	CHFCZK	1:30:00 PM	22.557	22.572			N/A
5/8/2019	CHFCZK	3:30:00 PM	22.519	22.528			N/A
5/8/2019	CHFDKK	9:30:00 AM	6.536	6.539			N/A
5/8/2019	CHFDKK	11:30:00 AM	6.545	6.547			N/A
5/8/2019	CHFDKK	1:30:00 PM	6.552	6.555			N/A
5/8/2019	CHFDKK	3:30:00 PM	6.541	6.542			N/A
5/8/2019	CHFDKK.fx	9:30:00 AM	6.5348	6.5407			N/A
5/8/2019	CHFDKK.fx	11:30:00 AM	6.5434	6.5487			N/A
5/8/2019	CHFDKK.fx	1:30:00 PM	6.5507	6.5561			N/A
5/8/2019	CHFDKK.fx	3:30:00 PM	6.5394	6.5432			N/A
5/8/2019	CHFHKD	9:30:00 AM	7.7028	7.7066			N/A
5/8/2019	CHFHKD	11:30:00 AM	7.7103	7.7141			N/A
5/8/2019	CHFHKD	1:30:00 PM	7.7132	7.7163			N/A
5/8/2019	CHFHKD	3:30:00 PM	7.7035	7.7049			N/A
5/8/2019	CHFHUF	9:30:00 AM	283.59	283.97			N/A
5/8/2019	CHFHUF	11:30:00 AM	284.29	284.59			N/A
5/8/2019	CHFHUF	1:30:00 PM	284.59	284.92			N/A
5/8/2019	CHFHUF	3:30:00 PM	283.84	284.13			N/A
5/8/2019	CHFJPY	9:30:00 AM	107.979	108.043			N/A
5/8/2019	CHFJPY	11:30:00 AM	108.198	108.264			N/A
5/8/2019	CHFJPY	1:30:00 PM	108.127	108.184			N/A
5/8/2019	CHFJPY	3:30:00 PM	108.067	108.111			N/A
5/8/2019	CHFJPY.fx	9:30:00 AM	108.013	108.009			N/A
5/8/2019	CHFJPY.fx	11:30:00 AM	108.234	108.229			N/A
5/8/2019	CHFJPY.fx	1:30:00 PM	108.159	108.149			N/A
5/8/2019	CHFJPY.fx	3:30:00 PM	108.101	108.076			N/A

5/8/2019	CHF MXN	9:30:00 AM	18.6619	18.675			N/A
5/8/2019	CHF MXN	11:30:00 AM	18.6926	18.7039			N/A
5/8/2019	CHF MXN	1:30:00 PM	18.7698	18.7839			N/A
5/8/2019	CHF MXN	3:30:00 PM	18.7182	18.7176			N/A
5/8/2019	CHF NOK	9:30:00 AM	8.5656	8.5726			N/A
5/8/2019	CHF NOK	11:30:00 AM	8.5814	8.585			N/A
5/8/2019	CHF NOK	1:30:00 PM	8.6226	8.6259			N/A
5/8/2019	CHF NOK	3:30:00 PM	8.6082	8.6137			N/A
5/8/2019	CHF NOK.fx	9:30:00 AM	8.56922	8.56914			N/A
5/8/2019	CHF NOK.fx	11:30:00 AM	8.58498	8.5814			N/A
5/8/2019	CHF NOK.fx	1:30:00 PM	8.62618	8.6223			N/A
5/8/2019	CHF NOK.fx	3:30:00 PM	8.6118	8.61006			N/A
5/8/2019	CHF PLN	9:30:00 AM	3.7553	3.7575			N/A
5/8/2019	CHF PLN	11:30:00 AM	3.7601	3.7625			N/A
5/8/2019	CHF PLN	1:30:00 PM	3.7676	3.77			N/A
5/8/2019	CHF PLN	3:30:00 PM	3.7596	3.7616			N/A
5/8/2019	CHF PLN.fx	9:30:00 AM	3.75296	3.75991			N/A
5/8/2019	CHF PLN.fx	11:30:00 AM	3.75768	3.76465			N/A
5/8/2019	CHF PLN.fx	1:30:00 PM	3.76526	3.77233			N/A
5/8/2019	CHF PLN.fx	3:30:00 PM	3.75724	3.76383			N/A
5/8/2019	CHF SEK	9:30:00 AM	9.3934	9.396			N/A
5/8/2019	CHF SEK	11:30:00 AM	9.3966	9.3981			N/A
5/8/2019	CHF SEK	1:30:00 PM	9.4319	9.4286			N/A
5/8/2019	CHF SEK	3:30:00 PM	9.4135	9.4153			N/A
5/8/2019	CHF SGD	9:30:00 AM	1.3359	1.3362			N/A
5/8/2019	CHF SGD	11:30:00 AM	1.3369	1.3373			N/A
5/8/2019	CHF SGD	1:30:00 PM	1.3392	1.3394			N/A
5/8/2019	CHF SGD	3:30:00 PM	1.3369	1.337			N/A
5/8/2019	CHF SGD.fx	9:30:00 AM	1.33605	1.33604			N/A
5/8/2019	CHF SGD.fx	11:30:00 AM	1.33711	1.33697			N/A
5/8/2019	CHF SGD.fx	1:30:00 PM	1.33936	1.33924			N/A
5/8/2019	CHF SGD.fx	3:30:00 PM	1.33713	1.33684			N/A
5/8/2019	CHF ZAR	9:30:00 AM	14.1211	14.1272			N/A
5/8/2019	CHF ZAR	11:30:00 AM	14.0638	14.0699			N/A

5/8/2019	CHFZAR	1:30:00 PM	14.149	14.1538			N/A
5/8/2019	CHFZAR	3:30:00 PM	14.0776	14.0868			N/A
5/8/2019	CZKJPY	9:30:00 AM					N/A
5/8/2019	CZKJPY	11:30:00 AM	4.801	4.805			N/A
5/8/2019	CZKJPY	1:30:00 PM	4.793	4.796			N/A
5/8/2019	CZKJPY	3:30:00 PM					N/A
5/8/2019	DAX30.i	9:30:00 AM	12097.01	12092.51			N/A
5/8/2019	DAX30.i	11:30:00 AM	12174.76	12169.61			N/A
5/8/2019	DAX30.i	1:30:00 PM	12086.51	12080.01			N/A
5/8/2019	DAX30.i	3:30:00 PM	12144.26	12139.76			N/A
5/8/2019	DJ30.i	9:30:00 AM					N/A
5/8/2019	DJ30.i	11:30:00 AM					N/A
5/8/2019	DJ30.i	1:30:00 PM					N/A
5/8/2019	DJ30.i	3:30:00 PM					N/A
5/8/2019	DKKJPY	9:30:00 AM					N/A
5/8/2019	DKKJPY	11:30:00 AM	16.54	16.55			N/A
5/8/2019	DKKJPY	1:30:00 PM	16.51	16.52			N/A
5/8/2019	DKKJPY	3:30:00 PM	16.52	16.54			N/A
5/8/2019	EURAUD	9:30:00 AM	1.59558	1.59591			N/A
5/8/2019	EURAUD	11:30:00 AM	1.59567	1.59587			N/A
5/8/2019	EURAUD	1:30:00 PM	1.59901	1.59916			N/A
5/8/2019	EURAUD	3:30:00 PM	1.59823	1.59856			N/A
5/8/2019	EURAUD.fx	9:30:00 AM	1.59578	1.59569			N/A
5/8/2019	EURAUD.fx	11:30:00 AM	1.59587	1.59566			N/A
5/8/2019	EURAUD.fx	1:30:00 PM	1.59921	1.59895			N/A
5/8/2019	EURAUD.fx	3:30:00 PM	1.59842	1.59833			N/A
5/8/2019	EURCAD	9:30:00 AM	1.50877	1.50962			N/A
5/8/2019	EURCAD	11:30:00 AM	1.50756	1.5084			N/A
5/8/2019	EURCAD	1:30:00 PM	1.5091	1.50974			N/A
5/8/2019	EURCAD	3:30:00 PM	1.50668	1.5075			N/A
5/8/2019	EURCAD.fx	9:30:00 AM	1.5092	1.5092			N/A
5/8/2019	EURCAD.fx	11:30:00 AM	1.50798	1.50798			N/A
5/8/2019	EURCAD.fx	1:30:00 PM	1.50951	1.50931			N/A
5/8/2019	EURCAD.fx	3:30:00 PM	1.50711	1.50707			N/A

5/8/2019	EURCHF	9:30:00 AM	1.1419	1.14197			N/A
5/8/2019	EURCHF	11:30:00 AM	1.1405	1.14048			N/A
5/8/2019	EURCHF	1:30:00 PM	1.13917	1.13916			N/A
5/8/2019	EURCHF	3:30:00 PM	1.14143	1.14112			N/A
5/8/2019	EURCHF.fx	9:30:00 AM	1.14196	1.14191			N/A
5/8/2019	EURCHF.fx	11:30:00 AM	1.14056	1.14041			N/A
5/8/2019	EURCHF.fx	1:30:00 PM	1.13922	1.1391			N/A
5/8/2019	EURCHF.fx	3:30:00 PM	1.14149	1.14106			N/A
5/8/2019	EURCZK	9:30:00 AM	25.691	25.727			N/A
5/8/2019	EURCZK	11:30:00 AM					N/A
5/8/2019	EURCZK	1:30:00 PM	25.682	25.721			N/A
5/8/2019	EURCZK	3:30:00 PM	25.682	25.721			N/A
5/8/2019	EURDKK	9:30:00 AM	7.4651	7.4655			N/A
5/8/2019	EURDKK	11:30:00 AM	7.4639	7.4651			N/A
5/8/2019	EURDKK	1:30:00 PM	7.464	7.4653			N/A
5/8/2019	EURDKK	3:30:00 PM	7.4648	7.4659			N/A
5/8/2019	EURGBP	9:30:00 AM	0.85785	0.85799			N/A
5/8/2019	EURGBP	11:30:00 AM	0.85846	0.85851			N/A
5/8/2019	EURGBP	1:30:00 PM	0.86053	0.86049			N/A
5/8/2019	EURGBP	3:30:00 PM	0.86102	0.86101			N/A
5/8/2019	EURGBP.fx	9:30:00 AM	0.85789	0.85794			N/A
5/8/2019	EURGBP.fx	11:30:00 AM	0.8585	0.85846			N/A
5/8/2019	EURGBP.fx	1:30:00 PM	0.86057	0.86044			N/A
5/8/2019	EURGBP.fx	3:30:00 PM	0.86106	0.86096			N/A
5/8/2019	EURHKD	9:30:00 AM	8.7962	8.8011			N/A
5/8/2019	EURHKD	11:30:00 AM	8.7938	8.7979			N/A
5/8/2019	EURHKD	1:30:00 PM	8.7868	8.7903			N/A
5/8/2019	EURHKD	3:30:00 PM	8.7912	8.7959			N/A
5/8/2019	EURHKD.fx	9:30:00 AM	8.79902	8.79825			N/A
5/8/2019	EURHKD.fx	11:30:00 AM	8.79663	8.79503			N/A
5/8/2019	EURHKD.fx	1:30:00 PM	8.78955	8.78738			N/A
5/8/2019	EURHKD.fx	3:30:00 PM	8.79405	8.79299			N/A
5/8/2019	EURHUF	9:30:00 AM	323.78	324.52			N/A
5/8/2019	EURHUF	11:30:00 AM	324.19	324.7			N/A

5/8/2019	EURHUF	1:30:00 PM	324.13	324.82			N/A
5/8/2019	EURHUF	3:30:00 PM	323.8	324.54			N/A
5/8/2019	EURHUF.fx	9:30:00 AM	324.058	324.258			N/A
5/8/2019	EURHUF.fx	11:30:00 AM	324.461	324.547			N/A
5/8/2019	EURHUF.fx	1:30:00 PM	324.416	324.55			N/A
5/8/2019	EURHUF.fx	3:30:00 PM	324.09	324.263			N/A
5/8/2019	EURJPY	9:30:00 AM	123.345	123.337			N/A
5/8/2019	EURJPY	11:30:00 AM	123.435	123.43			N/A
5/8/2019	EURJPY	1:30:00 PM	123.219	123.194			N/A
5/8/2019	EURJPY	3:30:00 PM	123.358	123.359			N/A
5/8/2019	EURJPY.fx	9:30:00 AM	123.348	123.333			N/A
5/8/2019	EURJPY.fx	11:30:00 AM	123.437	123.426			N/A
5/8/2019	EURJPY.fx	1:30:00 PM	123.222	123.19			N/A
5/8/2019	EURJPY.fx	3:30:00 PM	123.36	123.355			N/A
5/8/2019	EURMXN	9:30:00 AM	21.3116	21.3279			N/A
5/8/2019	EURMXN	11:30:00 AM	21.3192	21.3342			N/A
5/8/2019	EURMXN	1:30:00 PM	21.3832	21.4009			N/A
5/8/2019	EURMXN	3:30:00 PM	21.3582	21.3677			N/A
5/8/2019	EURMXN.f	9:30:00 AM	21.3199	21.3196			N/A
5/8/2019	EURMXN.f	11:30:00 AM	21.3287	21.3247			N/A
5/8/2019	EURMXN.f	1:30:00 PM	21.3929	21.392			N/A
5/8/2019	EURMXN.f	3:30:00 PM	21.3674	21.3581			N/A
5/8/2019	EURNOK	9:30:00 AM	9.7797	9.7912			N/A
5/8/2019	EURNOK	11:30:00 AM	9.7851	9.7932			N/A
5/8/2019	EURNOK	1:30:00 PM	9.8204	9.8278			N/A
5/8/2019	EURNOK	3:30:00 PM	9.822	9.8321			N/A
5/8/2019	EURNOK.fx	9:30:00 AM	9.78497	9.78598			N/A
5/8/2019	EURNOK.fx	11:30:00 AM	9.79052	9.78776			N/A
5/8/2019	EURNOK.fx	1:30:00 PM	9.82593	9.82208			N/A
5/8/2019	EURNOK.fx	3:30:00 PM	9.82752	9.82661			N/A
5/8/2019	EURNZD	9:30:00 AM	1.70052	1.70118			N/A
5/8/2019	EURNZD	11:30:00 AM	1.69876	1.69922			N/A
5/8/2019	EURNZD	1:30:00 PM	1.70088	1.70157			N/A
5/8/2019	EURNZD	3:30:00 PM	1.69947	1.70027			N/A

5/8/2019	EURNZD.fx	9:30:00 AM	1.70096	1.70074			N/A
5/8/2019	EURNZD.fx	11:30:00 AM	1.69917	1.69878			N/A
5/8/2019	EURNZD.fx	1:30:00 PM	1.70131	1.70114			N/A
5/8/2019	EURNZD.fx	3:30:00 PM	1.69988	1.69984			N/A
5/8/2019	EURPLN	9:30:00 AM	4.2883	4.2907			N/A
5/8/2019	EURPLN	11:30:00 AM	4.2883	4.2909			N/A
5/8/2019	EURPLN	1:30:00 PM	4.2918	4.2945			N/A
5/8/2019	EURPLN	3:30:00 PM	4.2903	4.2936			N/A
5/8/2019	EURPLN.fx	9:30:00 AM	4.28766	4.29139			N/A
5/8/2019	EURPLN.fx	11:30:00 AM	4.28767	4.29142			N/A
5/8/2019	EURPLN.fx	1:30:00 PM	4.29107	4.29522			N/A
5/8/2019	EURPLN.fx	3:30:00 PM	4.28977	4.29412			N/A
5/8/2019	EURRUB	9:30:00 AM					N/A
5/8/2019	EURRUB	11:30:00 AM	72.736	73.154			N/A
5/8/2019	EURRUB	1:30:00 PM	72.82	73.221			N/A
5/8/2019	EURRUB	3:30:00 PM	72.62	73.057			N/A
5/8/2019	EURSEK	9:30:00 AM	10.7284	10.7306			N/A
5/8/2019	EURSEK	11:30:00 AM	10.7186	10.7193			N/A
5/8/2019	EURSEK	1:30:00 PM	10.7435	10.7421			N/A
5/8/2019	EURSEK	3:30:00 PM	10.7449	10.7485			N/A
5/8/2019	EURSEK.fx	9:30:00 AM	10.72991	10.72898			N/A
5/8/2019	EURSEK.fx	11:30:00 AM	10.72019	10.71752			N/A
5/8/2019	EURSEK.fx	1:30:00 PM	10.74684	10.74047			N/A
5/8/2019	EURSEK.fx	3:30:00 PM	10.74654	10.74682			N/A
5/8/2019	EURSGD	9:30:00 AM	1.5253	1.5261			N/A
5/8/2019	EURSGD	11:30:00 AM	1.5244	1.5253			N/A
5/8/2019	EURSGD	1:30:00 PM	1.5253	1.5259			N/A
5/8/2019	EURSGD	3:30:00 PM	1.5254	1.5263			N/A
5/8/2019	EURSGD.fx	9:30:00 AM	1.52568	1.52572			N/A
5/8/2019	EURSGD.fx	11:30:00 AM	1.52483	1.52486			N/A
5/8/2019	EURSGD.fx	1:30:00 PM	1.52572	1.5255			N/A
5/8/2019	EURSGD.fx	3:30:00 PM	1.52579	1.52585			N/A
5/8/2019	EURUSD	9:30:00 AM	1.1209	1.12094			N/A
5/8/2019	EURUSD	11:30:00 AM	1.12054	1.12049			N/A

5/8/2019	EURUSD	1:30:00 PM	1.11963	1.11951	100	100	N/A
5/8/2019	EURUSD	3:30:00 PM	1.12019	1.12023			N/A
5/8/2019	EURUSD.fx	9:30:00 AM	1.1211	1.12104			N/A
5/8/2019	EURUSD.fx	11:30:00 AM	1.12074	1.12058			N/A
5/8/2019	EURUSD.fx	1:30:00 PM	1.11983	1.1196			N/A
5/8/2019	EURUSD.fx	3:30:00 PM	1.1204	1.12032			N/A
5/8/2019	EURZAR	9:30:00 AM	16.1271	16.1385			N/A
5/8/2019	EURZAR	11:30:00 AM	16.039	16.051			N/A
5/8/2019	EURZAR	1:30:00 PM	16.1175	16.1289			N/A
5/8/2019	EURZAR	3:30:00 PM	16.0647	16.083			N/A
5/8/2019	EURZAR.fx	9:30:00 AM	16.12566	16.1386			N/A
5/8/2019	EURZAR.fx	11:30:00 AM	16.03811	16.05193			N/A
5/8/2019	EURZAR.fx	1:30:00 PM	16.11666	16.12982			N/A
5/8/2019	EURZAR.fx	3:30:00 PM	16.06386	16.08354			N/A
5/8/2019	GBPAUD	9:30:00 AM	1.86038	1.86104			N/A
5/8/2019	GBPAUD	11:30:00 AM	1.85929	1.85977			N/A
5/8/2019	GBPAUD	1:30:00 PM	1.85882	1.85921			N/A
5/8/2019	GBPAUD	3:30:00 PM	1.85696	1.85728			N/A
5/8/2019	GBPAUD.fx	9:30:00 AM	1.86078	1.86063			N/A
5/8/2019	GBPAUD.fx	11:30:00 AM	1.85968	1.85937			N/A
5/8/2019	GBPAUD.fx	1:30:00 PM	1.85921	1.85881			N/A
5/8/2019	GBPAUD.fx	3:30:00 PM	1.85737	1.85688			N/A
5/8/2019	GBPCAD	9:30:00 AM	1.75871	1.75956			N/A
5/8/2019	GBPCAD	11:30:00 AM	1.75625	1.75696			N/A
5/8/2019	GBPCAD	1:30:00 PM	1.75389	1.75436			N/A
5/8/2019	GBPCAD	3:30:00 PM	1.75019	1.75064			N/A
5/8/2019	GBPCAD.fx	9:30:00 AM	1.7591	1.75916			N/A
5/8/2019	GBPCAD.fx	11:30:00 AM	1.75663	1.75656			N/A
5/8/2019	GBPCAD.fx	1:30:00 PM	1.75428	1.75396			N/A
5/8/2019	GBPCAD.fx	3:30:00 PM	1.75058	1.75023			N/A
5/8/2019	GBPCHF	9:30:00 AM	1.33087	1.3313			N/A
5/8/2019	GBPCHF	11:30:00 AM	1.32836	1.32857			N/A
5/8/2019	GBPCHF	1:30:00 PM	1.32376	1.32394			N/A
5/8/2019	GBPCHF	3:30:00 PM	1.3254	1.32562			N/A

5/8/2019	GBPCHF.fx	9:30:00 AM	1.33106	1.33107			N/A
5/8/2019	GBPCHF.fx	11:30:00 AM	1.32855	1.32836			N/A
5/8/2019	GBPCHF.fx	1:30:00 PM	1.32394	1.32373			N/A
5/8/2019	GBPCHF.fx	3:30:00 PM	1.32558	1.32542			N/A
5/8/2019	GBPCZK	9:30:00 AM	29.955	29.978			N/A
5/8/2019	GBPCZK	11:30:00 AM	29.929	29.948			N/A
5/8/2019	GBPCZK	1:30:00 PM	29.858	29.875			N/A
5/8/2019	GBPCZK	3:30:00 PM	29.84	29.859			N/A
5/8/2019	GBPDKK	9:30:00 AM	8.697	8.708			N/A
5/8/2019	GBPDKK	11:30:00 AM	8.692	8.702			N/A
5/8/2019	GBPDKK	1:30:00 PM	8.672	8.681			N/A
5/8/2019	GBPDKK	3:30:00 PM	8.666	8.676			N/A
5/8/2019	GBPDKK.fx	9:30:00 AM	8.6954	8.7086			N/A
5/8/2019	GBPDKK.fx	11:30:00 AM	8.6902	8.7024			N/A
5/8/2019	GBPDKK.fx	1:30:00 PM	8.6702	8.6814			N/A
5/8/2019	GBPDKK.fx	3:30:00 PM	8.6648	8.6766			N/A
5/8/2019	GBPHKD	9:30:00 AM	10.2503	10.2562			N/A
5/8/2019	GBPHKD	11:30:00 AM	10.2415	10.245			N/A
5/8/2019	GBPHKD	1:30:00 PM	10.2098	10.2129			N/A
5/8/2019	GBPHKD	3:30:00 PM	10.2072	10.2129			N/A
5/8/2019	GBPHUF	9:30:00 AM	377.42	377.88			N/A
5/8/2019	GBPHUF	11:30:00 AM	377.6	378.01			N/A
5/8/2019	GBPHUF	1:30:00 PM	376.69	377.07			N/A
5/8/2019	GBPHUF	3:30:00 PM	376.14	376.59			N/A
5/8/2019	GBPJPY	9:30:00 AM	143.753	143.785			N/A
5/8/2019	GBPJPY	11:30:00 AM	143.775	143.783			N/A
5/8/2019	GBPJPY	1:30:00 PM	143.186	143.186			N/A
5/8/2019	GBPJPY	3:30:00 PM	143.258	143.294			N/A
5/8/2019	GBPJPY.fx	9:30:00 AM	143.774	143.765			N/A
5/8/2019	GBPJPY.fx	11:30:00 AM	143.794	143.763			N/A
5/8/2019	GBPJPY.fx	1:30:00 PM	143.205	143.166			N/A
5/8/2019	GBPJPY.fx	3:30:00 PM	143.278	143.273			N/A
5/8/2019	GBPMXN	9:30:00 AM	24.8367	24.8498			N/A
5/8/2019	GBPMXN	11:30:00 AM	24.8299	24.8389			N/A

5/8/2019	GBPMXN	1:30:00 PM	24.8467	24.8578			N/A
5/8/2019	GBPMXN	3:30:00 PM	24.8058	24.8052			N/A
5/8/2019	GBPNOK	9:30:00 AM	11.4006	11.4116			N/A
5/8/2019	GBPNOK	11:30:00 AM	11.3984	11.4063			N/A
5/8/2019	GBPNOK	1:30:00 PM	11.414	11.4196			N/A
5/8/2019	GBPNOK	3:30:00 PM	11.4084	11.4185			N/A
5/8/2019	GBPNOK.fx	9:30:00 AM	11.40519	11.40699			N/A
5/8/2019	GBPNOK.fx	11:30:00 AM	11.40347	11.40141			N/A
5/8/2019	GBPNOK.fx	1:30:00 PM	11.41899	11.41462			N/A
5/8/2019	GBPNOK.fx	3:30:00 PM	11.41349	11.41335			N/A
5/8/2019	GBPNZD	9:30:00 AM	1.98224	1.98284			N/A
5/8/2019	GBPNZD	11:30:00 AM	1.97898	1.97919			N/A
5/8/2019	GBPNZD	1:30:00 PM	1.97679	1.97729			N/A
5/8/2019	GBPNZD	3:30:00 PM	1.97407	1.9745			N/A
5/8/2019	GBPNZD.fx	9:30:00 AM	1.98261	1.98246			N/A
5/8/2019	GBPNZD.fx	11:30:00 AM	1.97936	1.97883			N/A
5/8/2019	GBPNZD.fx	1:30:00 PM	1.97719	1.97691			N/A
5/8/2019	GBPNZD.fx	3:30:00 PM	1.97441	1.97413			N/A
5/8/2019	GBPPLN	9:30:00 AM	4.9993	5.0005			N/A
5/8/2019	GBPPLN	11:30:00 AM	4.9956	4.9975			N/A
5/8/2019	GBPPLN	1:30:00 PM	4.9886	4.9895			N/A
5/8/2019	GBPPLN	3:30:00 PM	4.9839	4.9855			N/A
5/8/2019	GBPPLN.fx	9:30:00 AM	4.99698	5.00285			N/A
5/8/2019	GBPPLN.fx	11:30:00 AM	4.99346	4.99951			N/A
5/8/2019	GBPPLN.fx	1:30:00 PM	4.98646	4.99145			N/A
5/8/2019	GBPPLN.fx	3:30:00 PM	4.98196	4.98757			N/A
5/8/2019	GBPSEK	9:30:00 AM	12.503	12.5102			N/A
5/8/2019	GBPSEK	11:30:00 AM	12.4825	12.4882			N/A
5/8/2019	GBPSEK	1:30:00 PM	12.4854	12.4848			N/A
5/8/2019	GBPSEK	3:30:00 PM	12.4769	12.4858			N/A
5/8/2019	GBPSEK.fx	9:30:00 AM	12.49943	12.51394			N/A
5/8/2019	GBPSEK.fx	11:30:00 AM	12.47886	12.49172			N/A
5/8/2019	GBPSEK.fx	1:30:00 PM	12.4819	12.48861			N/A
5/8/2019	GBPSEK.fx	3:30:00 PM	12.47356	12.48914			N/A

5/8/2019	GBPSGD	9:30:00 AM	1.778	1.7788			N/A
5/8/2019	GBPSGD	11:30:00 AM	1.776	1.7766			N/A
5/8/2019	GBPSGD	1:30:00 PM	1.7728	1.7732			N/A
5/8/2019	GBPSGD	3:30:00 PM	1.7719	1.7725			N/A
5/8/2019	GBPSGD.fx	9:30:00 AM	1.77612	1.78058			N/A
5/8/2019	GBPSGD.fx	11:30:00 AM	1.77417	1.77836			N/A
5/8/2019	GBPSGD.fx	1:30:00 PM	1.77098	1.77498			N/A
5/8/2019	GBPSGD.fx	3:30:00 PM	1.77004	1.77432			N/A
5/8/2019	GBPUSD	9:30:00 AM	1.30669	1.30675			N/A
5/8/2019	GBPUSD	11:30:00 AM	1.30552	1.30526			N/A
5/8/2019	GBPUSD	1:30:00 PM	1.3014	1.30117			N/A
5/8/2019	GBPUSD	3:30:00 PM	1.30119	1.30121			N/A
5/8/2019	GBPUSD.fx	9:30:00 AM	1.30675	1.30668			N/A
5/8/2019	GBPUSD.fx	11:30:00 AM	1.30557	1.3052			N/A
5/8/2019	GBPUSD.fx	1:30:00 PM	1.30145	1.3011			N/A
5/8/2019	GBPUSD.fx	3:30:00 PM	1.30125	1.30114			N/A
5/8/2019	GBPZAR	9:30:00 AM	18.7941	18.8128			N/A
5/8/2019	GBPZAR	11:30:00 AM	18.6806	18.6994			N/A
5/8/2019	GBPZAR	1:30:00 PM	18.7286	18.7453			N/A
5/8/2019	GBPZAR	3:30:00 PM	18.6571	18.6826			N/A
5/8/2019	GBPZAR.fx	9:30:00 AM	18.7991	18.8077			N/A
5/8/2019	GBPZAR.fx	11:30:00 AM	18.6874	18.6926			N/A
5/8/2019	GBPZAR.fx	1:30:00 PM	18.7353	18.7371			N/A
5/8/2019	GBPZAR.fx	3:30:00 PM	18.6639	18.6751			N/A
5/8/2019	GOLD	9:30:00 AM	1287.45	1287.8			N/A
5/8/2019	GOLD	11:30:00 AM	1287.06	1287.15			N/A
5/8/2019	GOLD	1:30:00 PM	1288.23	1288.53			N/A
5/8/2019	GOLD	3:30:00 PM	1290.89	1290.79			N/A
5/8/2019	HKDJPY	9:30:00 AM	14.02	14.03			N/A
5/8/2019	HKDJPY	11:30:00 AM	14.02	14.04			N/A
5/8/2019	HKDJPY	1:30:00 PM	14.02	14.03			N/A
5/8/2019	HKDJPY	3:30:00 PM	14.03	14.04			N/A
5/8/2019	HKDJPY.fx	9:30:00 AM	14.015	14.02			N/A
5/8/2019	HKDJPY.fx	11:30:00 AM	14.029	14.036			N/A

5/8/2019	HKDJPY.fx	1:30:00 PM	14.015	14.021			N/A
5/8/2019	HKDJPY.fx	3:30:00 PM	14.025	14.031			N/A
5/8/2019	HUFJPY	9:30:00 AM	0.3807	0.381			N/A
5/8/2019	HUFJPY	11:30:00 AM	0.3808	0.3811			N/A
5/8/2019	HUFJPY	1:30:00 PM	0.3799	0.3802			N/A
5/8/2019	HUFJPY	3:30:00 PM	0.3807	0.381			N/A
5/8/2019	JP225.i	9:30:00 AM	21559.15	21574.15			N/A
5/8/2019	JP225.i	11:30:00 AM	21634.15	21644.15			N/A
5/8/2019	JP225.i	1:30:00 PM	21484.15	21484.15			N/A
5/8/2019	JP225.i	3:30:00 PM	21484.15	21494.15			N/A
5/8/2019	MXNJPY	9:30:00 AM	5.79	5.79			N/A
5/8/2019	MXNJPY	11:30:00 AM	5.79	5.8			N/A
5/8/2019	MXNJPY	1:30:00 PM	5.76	5.77			N/A
5/8/2019	MXNJPY	3:30:00 PM	5.78	5.78			N/A
5/8/2019	NASDAQ.i	9:30:00 AM					N/A
5/8/2019	NASDAQ.i	11:30:00 AM					N/A
5/8/2019	NASDAQ.i	1:30:00 PM					N/A
5/8/2019	NASDAQ.i	3:30:00 PM					N/A
5/8/2019	NOKJPY	9:30:00 AM	12.59	12.62			N/A
5/8/2019	NOKJPY	11:30:00 AM	12.6	12.63			N/A
5/8/2019	NOKJPY	1:30:00 PM	12.53	12.56			N/A
5/8/2019	NOKJPY	3:30:00 PM	12.54	12.57			N/A
5/8/2019	NOKJPY.fx	9:30:00 AM	12.602	12.607			N/A
5/8/2019	NOKJPY.fx	11:30:00 AM	12.609	12.61			N/A
5/8/2019	NOKJPY.fx	1:30:00 PM	12.541	12.541			N/A
5/8/2019	NOKJPY.fx	3:30:00 PM	12.551	12.556			N/A
5/8/2019	NZDCAD	9:30:00 AM	0.887	0.88763			N/A
5/8/2019	NZDCAD	11:30:00 AM	0.8873	0.88785			N/A
5/8/2019	NZDCAD	1:30:00 PM	0.8869	0.88758			N/A
5/8/2019	NZDCAD	3:30:00 PM	0.88623	0.88693			N/A
5/8/2019	NZDCAD.fx	9:30:00 AM	0.88734	0.88728			N/A
5/8/2019	NZDCAD.fx	11:30:00 AM	0.88764	0.88752			N/A
5/8/2019	NZDCAD.fx	1:30:00 PM	0.88723	0.88724			N/A
5/8/2019	NZDCAD.fx	3:30:00 PM	0.88658	0.88659			N/A

5/8/2019	NZDCHF	9:30:00 AM	0.67109	0.67171			N/A
5/8/2019	NZDCHF	11:30:00 AM	0.67103	0.6715			N/A
5/8/2019	NZDCHF	1:30:00 PM	0.66925	0.6699			N/A
5/8/2019	NZDCHF	3:30:00 PM	0.67116	0.67161			N/A
5/8/2019	NZDCHF.fx	9:30:00 AM	0.67143	0.67135			N/A
5/8/2019	NZDCHF.fx	11:30:00 AM	0.67137	0.67115			N/A
5/8/2019	NZDCHF.fx	1:30:00 PM	0.66958	0.66954			N/A
5/8/2019	NZDCHF.fx	3:30:00 PM	0.67151	0.67126			N/A
5/8/2019	NZDCZK	9:30:00 AM	15.11	15.12			N/A
5/8/2019	NZDCZK	11:30:00 AM	15.121	15.132			N/A
5/8/2019	NZDCZK	1:30:00 PM	15.101	15.112			N/A
5/8/2019	NZDCZK	3:30:00 PM	15.113	15.125			N/A
5/8/2019	NZDDKK	9:30:00 AM					N/A
5/8/2019	NZDDKK	11:30:00 AM	4.391	4.395			N/A
5/8/2019	NZDDKK	1:30:00 PM	4.386	4.389			N/A
5/8/2019	NZDDKK	3:30:00 PM					N/A
5/8/2019	NZDHKD	9:30:00 AM	5.1695	5.1722			N/A
5/8/2019	NZDHKD	11:30:00 AM	5.1743	5.1763			N/A
5/8/2019	NZDHKD	1:30:00 PM	5.1632	5.1654			N/A
5/8/2019	NZDHKD	3:30:00 PM	5.1707	5.173			N/A
5/8/2019	NZDHUF	9:30:00 AM	190.34	190.6			N/A
5/8/2019	NZDHUF	11:30:00 AM	190.75	190.99			N/A
5/8/2019	NZDHUF	1:30:00 PM	190.48	190.75			N/A
5/8/2019	NZDHUF	3:30:00 PM	190.49	190.77			N/A
5/8/2019	NZDJPY	9:30:00 AM	72.491	72.547			N/A
5/8/2019	NZDJPY	11:30:00 AM	72.626	72.674			N/A
5/8/2019	NZDJPY	1:30:00 PM	72.394	72.444			N/A
5/8/2019	NZDJPY	3:30:00 PM	72.539	72.6			N/A
5/8/2019	NZDJPY.fx	9:30:00 AM	72.524	72.514			N/A
5/8/2019	NZDJPY.fx	11:30:00 AM	72.656	72.641			N/A
5/8/2019	NZDJPY.fx	1:30:00 PM	72.426	72.411			N/A
5/8/2019	NZDJPY.fx	3:30:00 PM	72.57	72.569			N/A
5/8/2019	NZDMXN	9:30:00 AM	12.5268	12.5322			N/A
5/8/2019	NZDMXN	11:30:00 AM	12.5444	12.549			N/A

5/8/2019	NZDMXN	1:30:00 PM	12.5665	12.5714			N/A
5/8/2019	NZDMXN	3:30:00 PM	12.5627	12.5636			N/A
5/8/2019	NZDNOK	9:30:00 AM	5.7487	5.7526			N/A
5/8/2019	NZDNOK	11:30:00 AM	5.7578	5.7597			N/A
5/8/2019	NZDNOK	1:30:00 PM	5.7718	5.7731			N/A
5/8/2019	NZDNOK	3:30:00 PM	5.7778	5.7802			N/A
5/8/2019	NZDPLN	9:30:00 AM	2.5206	2.522			N/A
5/8/2019	NZDPLN	11:30:00 AM	2.5234	2.5246			N/A
5/8/2019	NZDPLN	1:30:00 PM	2.5221	2.5231			N/A
5/8/2019	NZDPLN	3:30:00 PM	2.5237	2.5249			N/A
5/8/2019	NZDSEK	9:30:00 AM	6.3025	6.3093			N/A
5/8/2019	NZDSEK	11:30:00 AM	6.3032	6.3082			N/A
5/8/2019	NZDSEK	1:30:00 PM	6.3115	6.3135			N/A
5/8/2019	NZDSEK	3:30:00 PM	6.3167	6.3228			N/A
5/8/2019	NZDSGD	9:30:00 AM	0.8968	0.8974			N/A
5/8/2019	NZDSGD	11:30:00 AM	0.8973	0.8978			N/A
5/8/2019	NZDSGD	1:30:00 PM	0.8965	0.8971			N/A
5/8/2019	NZDSGD	3:30:00 PM	0.8974	0.8979			N/A
5/8/2019	NZDSGD.fx	9:30:00 AM	0.89678	0.89728			N/A
5/8/2019	NZDSGD.fx	11:30:00 AM	0.89728	0.89771			N/A
5/8/2019	NZDSGD.fx	1:30:00 PM	0.89653	0.89701			N/A
5/8/2019	NZDSGD.fx	3:30:00 PM	0.89734	0.8979			N/A
5/8/2019	NZDUSD	9:30:00 AM	0.65903	0.65909			N/A
5/8/2019	NZDUSD	11:30:00 AM	0.65958	0.65949			N/A
5/8/2019	NZDUSD	1:30:00 PM	0.6581	0.65818			N/A
5/8/2019	NZDUSD	3:30:00 PM	0.659	0.65907			N/A
5/8/2019	NZDUSD.fx	9:30:00 AM	0.65911	0.6591			N/A
5/8/2019	NZDUSD.fx	11:30:00 AM	0.65965	0.65951			N/A
5/8/2019	NZDUSD.fx	1:30:00 PM	0.65818	0.6582			N/A
5/8/2019	NZDUSD.fx	3:30:00 PM	0.65907	0.65909			N/A
5/8/2019	NZDZAR	9:30:00 AM	9.4736	9.4856			N/A
5/8/2019	NZDZAR	11:30:00 AM	9.4325	9.4456			N/A
5/8/2019	NZDZAR	1:30:00 PM	9.4669	9.4785			N/A
5/8/2019	NZDZAR	3:30:00 PM	9.4441	9.46			N/A

5/8/2019	SEKJPY	9:30:00 AM	11.49	11.5			N/A
5/8/2019	SEKJPY	11:30:00 AM	11.52	11.52			N/A
5/8/2019	SEKJPY	1:30:00 PM	11.47	11.48			N/A
5/8/2019	SEKJPY	3:30:00 PM	11.48	11.49			N/A
5/8/2019	SEKJPY.fx	9:30:00 AM	11.488	11.503			N/A
5/8/2019	SEKJPY.fx	11:30:00 AM	11.508	11.521			N/A
5/8/2019	SEKJPY.fx	1:30:00 PM	11.462	11.471			N/A
5/8/2019	SEKJPY.fx	3:30:00 PM	11.469	11.488			N/A
5/8/2019	SGDJPY	9:30:00 AM	80.84	80.84			N/A
5/8/2019	SGDJPY	11:30:00 AM	80.95	80.94			N/A
5/8/2019	SGDJPY	1:30:00 PM	80.78	80.75			N/A
5/8/2019	SGDJPY	3:30:00 PM	80.85	80.84			N/A
5/8/2019	SILVER	9:30:00 AM	14.75	15.14			N/A
5/8/2019	SILVER	11:30:00 AM	14.74	15.13			N/A
5/8/2019	SILVER	1:30:00 PM	14.71	15.08			N/A
5/8/2019	SILVER	3:30:00 PM	14.75	15.14			N/A
5/8/2019	SPX500.i	9:30:00 AM	2890.11	2890.41			N/A
5/8/2019	SPX500.i	11:30:00 AM	2896.36	2896.54			N/A
5/8/2019	SPX500.i	1:30:00 PM	2878.99	2878.62			N/A
5/8/2019	SPX500.i	3:30:00 PM	2878.11	2878.41			N/A
5/8/2019	UK100.i	9:30:00 AM	7244.46	7245.21			N/A
5/8/2019	UK100.i	11:30:00 AM	7256.46	7254.55			N/A
5/8/2019	UK100.i	1:30:00 PM	7240.96	7241.21			N/A
5/8/2019	UK100.i	3:30:00 PM	7251.96	7251.13			N/A
5/8/2019	USDCAD	9:30:00 AM	1.34622	1.3463			N/A
5/8/2019	USDCAD	11:30:00 AM	1.34574	1.34565			N/A
5/8/2019	USDCAD	1:30:00 PM	1.34811	1.34804			N/A
5/8/2019	USDCAD	3:30:00 PM	1.34528	1.34519			N/A
5/8/2019	USDCAD.fx	9:30:00 AM	1.34625	1.34627			N/A
5/8/2019	USDCAD.fx	11:30:00 AM	1.34577	1.34561			N/A
5/8/2019	USDCAD.fx	1:30:00 PM	1.34814	1.34801			N/A
5/8/2019	USDCAD.fx	3:30:00 PM	1.34532	1.34515			N/A
5/8/2019	USDCHF	9:30:00 AM	1.0186	1.01866			N/A
5/8/2019	USDCHF	11:30:00 AM	1.01764	1.0177	1000	1000	N/A

5/8/2019	USDCHF	1:30:00 PM	1.01736	1.01738			N/A
5/8/2019	USDCHF	3:30:00 PM	1.01875	1.01858			N/A
5/8/2019	USDCHF.fx	9:30:00 AM	1.01865	1.0186			N/A
5/8/2019	USDCHF.fx	11:30:00 AM	1.01769	1.01763			N/A
5/8/2019	USDCHF.fx	1:30:00 PM	1.01741	1.01733			N/A
5/8/2019	USDCHF.fx	3:30:00 PM	1.01879	1.01852			N/A
5/8/2019	USDCZK	9:30:00 AM	22.941	22.962			N/A
5/8/2019	USDCZK	11:30:00 AM	22.944	22.964			N/A
5/8/2019	USDCZK	1:30:00 PM	22.964	22.982			N/A
5/8/2019	USDCZK	3:30:00 PM	22.949	22.97			N/A
5/8/2019	USDCZK.fx	9:30:00 AM	22.9473	22.9557			N/A
5/8/2019	USDCZK.fx	11:30:00 AM	22.9528	22.9547			N/A
5/8/2019	USDCZK.fx	1:30:00 PM	22.9718	22.9742			N/A
5/8/2019	USDCZK.fx	3:30:00 PM	22.9568	22.9602			N/A
5/8/2019	USDDKK	9:30:00 AM	6.6583	6.662			N/A
5/8/2019	USDDKK	11:30:00 AM	6.661	6.6642			N/A
5/8/2019	USDDKK	1:30:00 PM	6.6666	6.6694			N/A
5/8/2019	USDDKK	3:30:00 PM	6.6625	6.666			N/A
5/8/2019	USDDKK.fx	9:30:00 AM	6.65879	6.65993			N/A
5/8/2019	USDDKK.fx	11:30:00 AM	6.66145	6.66202			N/A
5/8/2019	USDDKK.fx	1:30:00 PM	6.66724	6.66734			N/A
5/8/2019	USDDKK.fx	3:30:00 PM	6.66299	6.66402			N/A
5/8/2019	USDHKD	9:30:00 AM	7.8482	7.8486			N/A
5/8/2019	USDHKD	11:30:00 AM	7.8485	7.8486			N/A
5/8/2019	USDHKD	1:30:00 PM	7.8486	7.8484			N/A
5/8/2019	USDHKD	3:30:00 PM					N/A
5/8/2019	USDHKD.fx	9:30:00 AM	7.84816	7.84868			N/A
5/8/2019	USDHKD.fx	11:30:00 AM	7.84847	7.84894			N/A
5/8/2019	USDHKD.fx	1:30:00 PM	7.84852	7.84909			N/A
5/8/2019	USDHKD.fx	3:30:00 PM	7.8485	7.84907			N/A
5/8/2019	USDHUF	9:30:00 AM	288.9	289.36			N/A
5/8/2019	USDHUF	11:30:00 AM	289.38	289.73			N/A
5/8/2019	USDHUF	1:30:00 PM	289.56	289.99			N/A
5/8/2019	USDHUF	3:30:00 PM	289.15	289.61			N/A

5/8/2019	USDHUF.fx	9:30:00 AM	289.116	289.147			N/A
5/8/2019	USDHUF.fx	11:30:00 AM	289.583	289.525			N/A
5/8/2019	USDHUF.fx	1:30:00 PM	289.756	289.785			N/A
5/8/2019	USDHUF.fx	3:30:00 PM	289.345	289.398			N/A
5/8/2019	USDINR	9:30:00 AM	64.61	74.6			N/A
5/8/2019	USDINR	11:30:00 AM	64.5	74.49			N/A
5/8/2019	USDINR	1:30:00 PM					N/A
5/8/2019	USDINR	3:30:00 PM					N/A
5/8/2019	USDJPY	9:30:00 AM	110.023	110.023			N/A
5/8/2019	USDJPY	11:30:00 AM	110.138	110.151			N/A
5/8/2019	USDJPY	1:30:00 PM	110.033	110.022			N/A
5/8/2019	USDJPY	3:30:00 PM	110.107	110.112			N/A
5/8/2019	USDJPY.fx	9:30:00 AM	110.029	110.016			N/A
5/8/2019	USDJPY.fx	11:30:00 AM	110.144	110.144			N/A
5/8/2019	USDJPY.fx	1:30:00 PM	110.039	110.015			N/A
5/8/2019	USDJPY.fx	3:30:00 PM	110.113	110.103			N/A
5/8/2019	USDMXN	9:30:00 AM	19.015	19.019			N/A
5/8/2019	USDMXN	11:30:00 AM	19.03	19.031			N/A
5/8/2019	USDMXN	1:30:00 PM	19.103	19.108			N/A
5/8/2019	USDMXN	3:30:00 PM	19.071	19.067			N/A
5/8/2019	USDMXN.fx	9:30:00 AM	19.0194	19.0161			N/A
5/8/2019	USDMXN.fx	11:30:00 AM	19.0347	19.0271			N/A
5/8/2019	USDMXN.fx	1:30:00 PM	19.1061	19.1037			N/A
5/8/2019	USDMXN.fx	3:30:00 PM	19.074	19.0624			N/A
5/8/2019	USDNOK	9:30:00 AM	8.7251	8.7327			N/A
5/8/2019	USDNOK	11:30:00 AM	8.7336	8.7373			N/A
5/8/2019	USDNOK	1:30:00 PM	8.7716	8.7765			N/A
5/8/2019	USDNOK	3:30:00 PM	8.7682	8.7758			N/A
5/8/2019	USDNOK.fx	9:30:00 AM	8.72892	8.72846			N/A
5/8/2019	USDNOK.fx	11:30:00 AM	8.73747	8.73282			N/A
5/8/2019	USDNOK.fx	1:30:00 PM	8.77571	8.77184			N/A
5/8/2019	USDNOK.fx	3:30:00 PM	8.77226	8.77118			N/A
5/8/2019	USDPLN	9:30:00 AM	3.8258	3.8267			N/A
5/8/2019	USDPLN	11:30:00 AM	3.8276	3.828			N/A

5/8/2019	USDPLN	1:30:00 PM	3.8338	3.8346			N/A
5/8/2019	USDPLN	3:30:00 PM	3.8301	3.8316			N/A
5/8/2019	USDPLN.fx	9:30:00 AM	3.82517	3.82751			N/A
5/8/2019	USDPLN.fx	11:30:00 AM	3.82675	3.82883			N/A
5/8/2019	USDPLN.fx	1:30:00 PM	3.83306	3.83531			N/A
5/8/2019	USDPLN.fx	3:30:00 PM	3.82928	3.83233			N/A
5/8/2019	USDRUB	9:30:00 AM					N/A
5/8/2019	USDRUB	11:30:00 AM	64.994	65.366			N/A
5/8/2019	USDRUB	1:30:00 PM	65.129	65.492			N/A
5/8/2019	USDRUB	3:30:00 PM	64.909	65.303			N/A
5/8/2019	USDSEK	9:30:00 AM	9.5691	9.5714			N/A
5/8/2019	USDSEK	11:30:00 AM	9.5649	9.5641			N/A
5/8/2019	USDSEK	1:30:00 PM	9.5959	9.5933			N/A
5/8/2019	USDSEK	3:30:00 PM	9.5896	9.5943			N/A
5/8/2019	USDSEK.fx	9:30:00 AM	9.5717	9.56961			N/A
5/8/2019	USDSEK.fx	11:30:00 AM	9.56733	9.56231			N/A
5/8/2019	USDSEK.fx	1:30:00 PM	9.5985	9.59138			N/A
5/8/2019	USDSEK.fx	3:30:00 PM	9.5922	9.59221			N/A
5/8/2019	USDSGD	9:30:00 AM	1.3608	1.3611			N/A
5/8/2019	USDSGD	11:30:00 AM	1.3606	1.3608			N/A
5/8/2019	USDSGD	1:30:00 PM	1.3624	1.3627			N/A
5/8/2019	USDSGD	3:30:00 PM	1.3618	1.3619			N/A
5/8/2019	USDSGD.fx	9:30:00 AM	1.3608	1.36113			N/A
5/8/2019	USDSGD.fx	11:30:00 AM	1.36054	1.3608			N/A
5/8/2019	USDSGD.fx	1:30:00 PM	1.36234	1.36275			N/A
5/8/2019	USDSGD.fx	3:30:00 PM	1.3617	1.36214			N/A
5/8/2019	USDZAR	9:30:00 AM	14.3842	14.3933			N/A
5/8/2019	USDZAR	11:30:00 AM	14.3127	14.3217			N/A
5/8/2019	USDZAR	1:30:00 PM	14.3946	14.4031			N/A
5/8/2019	USDZAR	3:30:00 PM	14.3391	14.3548			N/A
5/8/2019	USDZAR.fx	9:30:00 AM					N/A
5/8/2019	USDZAR.fx	11:30:00 AM	14.31882	14.31542			N/A
5/8/2019	USDZAR.fx	1:30:00 PM	14.40054	14.39742			N/A
5/8/2019	USDZAR.fx	3:30:00 PM	14.34522	14.3486			N/A

5/8/2019	XAUUSD	9:30:00 AM	1287.45	1287.79			N/A
5/8/2019	XAUUSD	11:30:00 AM	1287.06	1287.13			N/A
5/8/2019	XAUUSD	1:30:00 PM	1288.23	1288.52			N/A
5/8/2019	XAUUSD	3:30:00 PM	1290.87	1290.78			N/A
5/8/2019	ZARJPY	9:30:00 AM	7.63	7.65			N/A
5/8/2019	ZARJPY	11:30:00 AM	7.68	7.7			N/A
5/8/2019	ZARJPY	1:30:00 PM	7.63	7.64			N/A
5/8/2019	ZARJPY	3:30:00 PM	7.66	7.68			N/A
5/8/2019	ZARJPY.fx	9:30:00 AM	7.646	7.647			N/A
5/8/2019	ZARJPY.fx	11:30:00 AM	7.693	7.692			N/A
5/8/2019	ZARJPY.fx	1:30:00 PM	7.641	7.64			N/A
5/8/2019	ZARJPY.fx	3:30:00 PM	7.673	7.675			N/A
5/9/2019	#AA	9:30:00 AM					N/A
5/9/2019	#AA	11:30:00 AM					N/A
5/9/2019	#AA	1:30:00 PM					N/A
5/9/2019	#AA	3:30:00 PM					N/A
5/9/2019	#AABA	9:30:00 AM					N/A
5/9/2019	#AABA	11:30:00 AM					N/A
5/9/2019	#AABA	1:30:00 PM					N/A
5/9/2019	#AABA	3:30:00 PM					N/A
5/9/2019	#AAL	9:30:00 AM					N/A
5/9/2019	#AAL	11:30:00 AM					N/A
5/9/2019	#AAL	1:30:00 PM					N/A
5/9/2019	#AAL	3:30:00 PM					N/A
5/9/2019	#AAPL	9:30:00 AM					N/A
5/9/2019	#AAPL	11:30:00 AM					N/A
5/9/2019	#AAPL	1:30:00 PM					N/A
5/9/2019	#AAPL	3:30:00 PM					N/A
5/9/2019	#ADBE	9:30:00 AM					N/A
5/9/2019	#ADBE	11:30:00 AM					N/A
5/9/2019	#ADBE	1:30:00 PM					N/A
5/9/2019	#ADBE	3:30:00 PM					N/A
5/9/2019	#AIG	9:30:00 AM					N/A
5/9/2019	#AIG	11:30:00 AM					N/A

5/9/2019	#AIG	1:30:00 PM					N/A
5/9/2019	#AIG	3:30:00 PM					N/A
5/9/2019	#AMD	9:30:00 AM					N/A
5/9/2019	#AMD	11:30:00 AM					N/A
5/9/2019	#AMD	1:30:00 PM					N/A
5/9/2019	#AMD	3:30:00 PM					N/A
5/9/2019	#AMZN	9:30:00 AM					N/A
5/9/2019	#AMZN	11:30:00 AM					N/A
5/9/2019	#AMZN	1:30:00 PM					N/A
5/9/2019	#AMZN	3:30:00 PM					N/A
5/9/2019	#AXP	9:30:00 AM					N/A
5/9/2019	#AXP	11:30:00 AM					N/A
5/9/2019	#AXP	1:30:00 PM					N/A
5/9/2019	#AXP	3:30:00 PM					N/A
5/9/2019	#BA	9:30:00 AM					N/A
5/9/2019	#BA	11:30:00 AM					N/A
5/9/2019	#BA	1:30:00 PM					N/A
5/9/2019	#BA	3:30:00 PM					N/A
5/9/2019	#BABA	9:30:00 AM					N/A
5/9/2019	#BABA	11:30:00 AM					N/A
5/9/2019	#BABA	1:30:00 PM					N/A
5/9/2019	#BABA	3:30:00 PM					N/A
5/9/2019	#BAC	9:30:00 AM					N/A
5/9/2019	#BAC	11:30:00 AM					N/A
5/9/2019	#BAC	1:30:00 PM					N/A
5/9/2019	#BAC	3:30:00 PM					N/A
5/9/2019	#BARC	9:30:00 AM					N/A
5/9/2019	#BARC	11:30:00 AM					N/A
5/9/2019	#BARC	1:30:00 PM					N/A
5/9/2019	#BARC	3:30:00 PM					N/A
5/9/2019	#BHP	9:30:00 AM					N/A
5/9/2019	#BHP	11:30:00 AM					N/A
5/9/2019	#BHP	1:30:00 PM					N/A
5/9/2019	#BHP	3:30:00 PM					N/A

5/9/2019	#BIDU	9:30:00 AM					N/A
5/9/2019	#BIDU	11:30:00 AM					N/A
5/9/2019	#BIDU	1:30:00 PM					N/A
5/9/2019	#BIDU	3:30:00 PM					N/A
5/9/2019	#Bitcoin	9:30:00 AM	6271.3	6297.7			N/A
5/9/2019	#Bitcoin	11:30:00 AM	6262.6	6292.46			N/A
5/9/2019	#Bitcoin	1:30:00 PM	6255.9	6286.95			N/A
5/9/2019	#Bitcoin	3:30:00 PM	6191.1	6215.2			N/A
5/9/2019	#BK	9:30:00 AM					N/A
5/9/2019	#BK	11:30:00 AM					N/A
5/9/2019	#BK	1:30:00 PM					N/A
5/9/2019	#BK	3:30:00 PM					N/A
5/9/2019	#BLT	9:30:00 AM					N/A
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5/9/2019	#VZ	1:30:00 PM					N/A
5/9/2019	#VZ	3:30:00 PM					N/A
5/9/2019	#WDC	9:30:00 AM					N/A
5/9/2019	#WDC	11:30:00 AM					N/A
5/9/2019	#WDC	1:30:00 PM					N/A
5/9/2019	#WDC	3:30:00 PM					N/A
5/9/2019	#WFC	9:30:00 AM					N/A
5/9/2019	#WFC	11:30:00 AM					N/A
5/9/2019	#WFC	1:30:00 PM					N/A
5/9/2019	#WFC	3:30:00 PM					N/A
5/9/2019	#WMT	9:30:00 AM					N/A
5/9/2019	#WMT	11:30:00 AM					N/A

5/9/2019	#WMT	1:30:00 PM					N/A
5/9/2019	#WMT	3:30:00 PM					N/A
5/9/2019	#XOM	9:30:00 AM					N/A
5/9/2019	#XOM	11:30:00 AM					N/A
5/9/2019	#XOM	1:30:00 PM					N/A
5/9/2019	#XOM	3:30:00 PM					N/A
5/9/2019	#YHOO	9:30:00 AM					N/A
5/9/2019	#YHOO	11:30:00 AM					N/A
5/9/2019	#YHOO	1:30:00 PM					N/A
5/9/2019	#YHOO	3:30:00 PM					N/A
5/9/2019	#ZNGA	9:30:00 AM					N/A
5/9/2019	#ZNGA	11:30:00 AM					N/A
5/9/2019	#ZNGA	1:30:00 PM					N/A
5/9/2019	#ZNGA	3:30:00 PM					N/A
5/9/2019	AUDCAD	9:30:00 AM	0.94066	0.94131			N/A
5/9/2019	AUDCAD	11:30:00 AM	0.93968	0.94037			N/A
5/9/2019	AUDCAD	1:30:00 PM	0.93933	0.93992			N/A
5/9/2019	AUDCAD	3:30:00 PM	0.94057	0.94074			N/A
5/9/2019	AUDCAD.fx	9:30:00 AM	0.94098	0.94096			N/A
5/9/2019	AUDCAD.fx	11:30:00 AM	0.94002	0.94			N/A
5/9/2019	AUDCAD.fx	1:30:00 PM	0.93967	0.93957			N/A
5/9/2019	AUDCAD.fx	3:30:00 PM	0.94087	0.94056			N/A
5/9/2019	AUDCHF	9:30:00 AM	0.71082	0.71138			N/A
5/9/2019	AUDCHF	11:30:00 AM	0.70913	0.70981			N/A
5/9/2019	AUDCHF	1:30:00 PM	0.7104	0.71088			N/A
5/9/2019	AUDCHF	3:30:00 PM	0.70912	0.70977			N/A
5/9/2019	AUDCHF.fx	9:30:00 AM	0.71116	0.71103			N/A
5/9/2019	AUDCHF.fx	11:30:00 AM	0.70947	0.70946			N/A
5/9/2019	AUDCHF.fx	1:30:00 PM	0.71074	0.71053			N/A
5/9/2019	AUDCHF.fx	3:30:00 PM	0.70946	0.70945			N/A
5/9/2019	AUDCZK	9:30:00 AM	16.008	16.023			N/A
5/9/2019	AUDCZK	11:30:00 AM	16.017	16.03			N/A
5/9/2019	AUDCZK	1:30:00 PM	16.01	16.025			N/A
5/9/2019	AUDCZK	3:30:00 PM	15.995	16.01			N/A

5/9/2019	AUDDKK	9:30:00 AM	4.6484	4.6525			N/A
5/9/2019	AUDDKK	11:30:00 AM	4.6512	4.6555			N/A
5/9/2019	AUDDKK	1:30:00 PM	4.6513	4.6558			N/A
5/9/2019	AUDDKK	3:30:00 PM	4.6487	4.6529			N/A
5/9/2019	AUDHKD	9:30:00 AM	5.4712	5.4746			N/A
5/9/2019	AUDHKD	11:30:00 AM	5.4646	5.4685			N/A
5/9/2019	AUDHKD	1:30:00 PM	5.47	5.4731			N/A
5/9/2019	AUDHKD	3:30:00 PM	5.4706	5.4742			N/A
5/9/2019	AUDHUF	9:30:00 AM	201.69	201.92			N/A
5/9/2019	AUDHUF	11:30:00 AM	202.12	202.34			N/A
5/9/2019	AUDHUF	1:30:00 PM	201.59	201.81			N/A
5/9/2019	AUDHUF	3:30:00 PM	201.1	201.31			N/A
5/9/2019	AUDJPY	9:30:00 AM	76.603	76.658			N/A
5/9/2019	AUDJPY	11:30:00 AM	76.383	76.44			N/A
5/9/2019	AUDJPY	1:30:00 PM	76.546	76.601			N/A
5/9/2019	AUDJPY	3:30:00 PM	76.56	76.616			N/A
5/9/2019	AUDJPY.fx	9:30:00 AM	76.637	76.623			N/A
5/9/2019	AUDJPY.fx	11:30:00 AM	76.417	76.404			N/A
5/9/2019	AUDJPY.fx	1:30:00 PM	76.58	76.566			N/A
5/9/2019	AUDJPY.fx	3:30:00 PM	76.592	76.582			N/A
5/9/2019	AUDMXN	9:30:00 AM	13.35	13.3556			N/A
5/9/2019	AUDMXN	11:30:00 AM	13.3438	13.3524			N/A
5/9/2019	AUDMXN	1:30:00 PM	13.3615	13.3705			N/A
5/9/2019	AUDMXN	3:30:00 PM	13.357	13.3618			N/A
5/9/2019	AUDNOK	9:30:00 AM	6.1159	6.12			N/A
5/9/2019	AUDNOK	11:30:00 AM	6.1178	6.1202			N/A
5/9/2019	AUDNOK	1:30:00 PM	6.0991	6.104			N/A
5/9/2019	AUDNOK	3:30:00 PM	6.1094	6.1135			N/A
5/9/2019	AUDNOK.f	9:30:00 AM	6.1173	6.1183			N/A
5/9/2019	AUDNOK.f	11:30:00 AM	6.1193	6.1185			N/A
5/9/2019	AUDNOK.f	1:30:00 PM	6.1007	6.1023			N/A
5/9/2019	AUDNOK.f	3:30:00 PM	6.1109	6.1119			N/A
5/9/2019	AUDNZD	9:30:00 AM	1.05982	1.06065			N/A
5/9/2019	AUDNZD	11:30:00 AM	1.05929	1.06015			N/A

5/9/2019	AUDNZD	1:30:00 PM	1.06048	1.06135			N/A
5/9/2019	AUDNZD	3:30:00 PM	1.05984	1.06063			N/A
5/9/2019	AUDNZD.fx	9:30:00 AM	1.06027	1.06019			N/A
5/9/2019	AUDNZD.fx	11:30:00 AM	1.05974	1.05969			N/A
5/9/2019	AUDNZD.fx	1:30:00 PM	1.06094	1.0609			N/A
5/9/2019	AUDNZD.fx	3:30:00 PM	1.0602	1.0602			N/A
5/9/2019	AUDPLN	9:30:00 AM	2.6737	2.6767			N/A
5/9/2019	AUDPLN	11:30:00 AM	2.6775	2.6801			N/A
5/9/2019	AUDPLN	1:30:00 PM	2.6746	2.6777			N/A
5/9/2019	AUDPLN	3:30:00 PM	2.6733	2.6761			N/A
5/9/2019	AUDSEK	9:30:00 AM	6.7104	6.7107			N/A
5/9/2019	AUDSEK	11:30:00 AM	6.7283	6.7295			N/A
5/9/2019	AUDSEK	1:30:00 PM	6.728	6.7309			N/A
5/9/2019	AUDSEK	3:30:00 PM	6.7285	6.7299			N/A
5/9/2019	AUDSEK.fx	9:30:00 AM	6.7058	6.7153			N/A
5/9/2019	AUDSEK.fx	11:30:00 AM	6.7238	6.7337			N/A
5/9/2019	AUDSEK.fx	1:30:00 PM	6.7234	6.7354			N/A
5/9/2019	AUDSEK.fx	3:30:00 PM	6.7239	6.7345			N/A
5/9/2019	AUDSGD	9:30:00 AM	0.9508	0.9509			N/A
5/9/2019	AUDSGD	11:30:00 AM	0.9504	0.9507			N/A
5/9/2019	AUDSGD	1:30:00 PM	0.9508	0.951			N/A
5/9/2019	AUDSGD	3:30:00 PM	0.9512	0.9514			N/A
5/9/2019	AUDSGD.fx	9:30:00 AM	0.95087	0.95082			N/A
5/9/2019	AUDSGD.fx	11:30:00 AM	0.95051	0.95058			N/A
5/9/2019	AUDSGD.fx	1:30:00 PM	0.9509	0.95092			N/A
5/9/2019	AUDSGD.fx	3:30:00 PM	0.95115	0.95127			N/A
5/9/2019	AUDUSD	9:30:00 AM	0.6975	0.69748			N/A
5/9/2019	AUDUSD	11:30:00 AM	0.69662	0.69675			N/A
5/9/2019	AUDUSD	1:30:00 PM	0.69731	0.69738			N/A
5/9/2019	AUDUSD	3:30:00 PM	0.69748	0.69747			N/A
5/9/2019	AUDUSD.fx	9:30:00 AM	0.69756	0.69742			N/A
5/9/2019	AUDUSD.fx	11:30:00 AM	0.69668	0.69667			N/A
5/9/2019	AUDUSD.fx	1:30:00 PM	0.69737	0.69732			N/A
5/9/2019	AUDUSD.fx	3:30:00 PM	0.69749	0.69742			N/A

5/9/2019	AUDZAR	9:30:00 AM	10.005	10.0147			N/A
5/9/2019	AUDZAR	11:30:00 AM	10.0324	10.0479			N/A
5/9/2019	AUDZAR	1:30:00 PM	10.0282	10.0407			N/A
5/9/2019	AUDZAR	3:30:00 PM	9.981	9.9962			N/A
5/9/2019	AUS200.i	9:30:00 AM					N/A
5/9/2019	AUS200.i	11:30:00 AM	6288.48	6288.98			N/A
5/9/2019	AUS200.i	1:30:00 PM	6283.48	6286.78			N/A
5/9/2019	AUS200.i	3:30:00 PM	6276.48	6278.58			N/A
5/9/2019	BCHUSD	9:30:00 AM	293.85	295.73			N/A
5/9/2019	BCHUSD	11:30:00 AM	296.27	296.68			N/A
5/9/2019	BCHUSD	1:30:00 PM	294.79	296.79			N/A
5/9/2019	BCHUSD	3:30:00 PM	290.57	292.4			N/A
5/9/2019	CADCHF	9:30:00 AM	0.75538	0.75599			N/A
5/9/2019	CADCHF	11:30:00 AM	0.75435	0.75508			N/A
5/9/2019	CADCHF	1:30:00 PM	0.75603	0.75654			N/A
5/9/2019	CADCHF	3:30:00 PM	0.75411	0.75431			N/A
5/9/2019	CADCHF.fx	9:30:00 AM	0.75571	0.75563			N/A
5/9/2019	CADCHF.fx	11:30:00 AM	0.7547	0.75472			N/A
5/9/2019	CADCHF.fx	1:30:00 PM	0.75637	0.75618			N/A
5/9/2019	CADCHF.fx	3:30:00 PM	0.75434	0.75398			N/A
5/9/2019	CADCZK	9:30:00 AM	17.013	17.03			N/A
5/9/2019	CADCZK	11:30:00 AM	17.041	17.055			N/A
5/9/2019	CADCZK	1:30:00 PM	17.041	17.056			N/A
5/9/2019	CADCZK	3:30:00 PM	17.012	17.018			N/A
5/9/2019	CADDKK	9:30:00 AM					N/A
5/9/2019	CADDKK	11:30:00 AM					N/A
5/9/2019	CADDKK	1:30:00 PM	4.951	4.954			N/A
5/9/2019	CADDKK	3:30:00 PM	4.943	4.943			N/A
5/9/2019	CADHKD	9:30:00 AM	5.8154	5.8192			N/A
5/9/2019	CADHKD	11:30:00 AM	5.8139	5.8175			N/A
5/9/2019	CADHKD	1:30:00 PM	5.8219	5.8255			N/A
5/9/2019	CADHKD	3:30:00 PM	5.8182	5.8188			N/A
5/9/2019	CADHUF	9:30:00 AM	214.41	214.57			N/A
5/9/2019	CADHUF	11:30:00 AM	215.09	215.23			N/A

5/9/2019	CADHUF	1:30:00 PM	214.6	214.74			N/A
5/9/2019	CADHUF	3:30:00 PM	213.94	213.95			N/A
5/9/2019	CADJPY	9:30:00 AM	81.406	81.47			N/A
5/9/2019	CADJPY	11:30:00 AM	81.254	81.316			N/A
5/9/2019	CADJPY	1:30:00 PM	81.465	81.521			N/A
5/9/2019	CADJPY	3:30:00 PM	81.417	81.422			N/A
5/9/2019	CADJPY.fx	9:30:00 AM	81.439	81.435			N/A
5/9/2019	CADJPY.fx	11:30:00 AM	81.289	81.28			N/A
5/9/2019	CADJPY.fx	1:30:00 PM	81.5	81.485			N/A
5/9/2019	CADJPY.fx	3:30:00 PM	81.44	81.388			N/A
5/9/2019	CADMXN	9:30:00 AM	14.1877	14.1962			N/A
5/9/2019	CADMXN	11:30:00 AM	14.1954	14.2067			N/A
5/9/2019	CADMXN	1:30:00 PM	14.2203	14.2321			N/A
5/9/2019	CADMXN	3:30:00 PM	14.2034	14.2063			N/A
5/9/2019	CADNOK	9:30:00 AM	6.4976	6.5019			N/A
5/9/2019	CADNOK	11:30:00 AM	6.5074	6.509			N/A
5/9/2019	CADNOK	1:30:00 PM	6.4901	6.4943			N/A
5/9/2019	CADNOK	3:30:00 PM	6.4925	6.4929			N/A
5/9/2019	CADPLN	9:30:00 AM	2.8417	2.8436			N/A
5/9/2019	CADPLN	11:30:00 AM	2.8483	2.8502			N/A
5/9/2019	CADPLN	1:30:00 PM	2.8468	2.8484			N/A
5/9/2019	CADPLN	3:30:00 PM	2.8416	2.8416			N/A
5/9/2019	CADSEK	9:30:00 AM	7.1287	7.1303			N/A
5/9/2019	CADSEK	11:30:00 AM	7.1568	7.158			N/A
5/9/2019	CADSEK	1:30:00 PM	7.1585	7.1614			N/A
5/9/2019	CADSEK	3:30:00 PM	7.1507	7.1502			N/A
5/9/2019	CADSGD	9:30:00 AM	1.0097	1.0101			N/A
5/9/2019	CADSGD	11:30:00 AM	1.0106	1.0109			N/A
5/9/2019	CADSGD	1:30:00 PM	1.0112	1.0115			N/A
5/9/2019	CADSGD	3:30:00 PM	1.0107	1.011			N/A
5/9/2019	CADZAR	9:30:00 AM	10.6339	10.645			N/A
5/9/2019	CADZAR	11:30:00 AM	10.6738	10.6908			N/A
5/9/2019	CADZAR	1:30:00 PM	10.6721	10.6876			N/A
5/9/2019	CADZAR	3:30:00 PM	10.6152	10.6259			N/A

5/9/2019	CHFCZK	9:30:00 AM	22.519	22.535			N/A
5/9/2019	CHFCZK	11:30:00 AM	22.584	22.596			N/A
5/9/2019	CHFCZK	1:30:00 PM	22.539	22.551			N/A
5/9/2019	CHFCZK	3:30:00 PM	22.555	22.57			N/A
5/9/2019	CHFDKK	9:30:00 AM	6.538	6.542			N/A
5/9/2019	CHFDKK	11:30:00 AM	6.558	6.56			N/A
5/9/2019	CHFDKK	1:30:00 PM	6.547	6.549			N/A
5/9/2019	CHFDKK	3:30:00 PM	6.554	6.557			N/A
5/9/2019	CHFDKK.fx	9:30:00 AM	6.5368	6.5429			N/A
5/9/2019	CHFDKK.fx	11:30:00 AM	6.5562	6.5614			N/A
5/9/2019	CHFDKK.fx	1:30:00 PM	6.5456	6.5504			N/A
5/9/2019	CHFDKK.fx	3:30:00 PM	6.5523	6.5579			N/A
5/9/2019	CHFHKD	9:30:00 AM	7.6966	7.7004			N/A
5/9/2019	CHFHKD	11:30:00 AM	7.7048	7.7088			N/A
5/9/2019	CHFHKD	1:30:00 PM	7.7003	7.7022			N/A
5/9/2019	CHFHKD	3:30:00 PM	7.7141	7.7168			N/A
5/9/2019	CHFHUF	9:30:00 AM	283.69	284.05			N/A
5/9/2019	CHFHUF	11:30:00 AM	284.94	285.3			N/A
5/9/2019	CHFHUF	1:30:00 PM	283.72	284.06			N/A
5/9/2019	CHFHUF	3:30:00 PM	283.5	283.87			N/A
5/9/2019	CHFJPY	9:30:00 AM	107.744	107.797			N/A
5/9/2019	CHFJPY	11:30:00 AM	107.671	107.734			N/A
5/9/2019	CHFJPY	1:30:00 PM	107.725	107.777			N/A
5/9/2019	CHFJPY	3:30:00 PM	107.927	107.969			N/A
5/9/2019	CHFJPY.fx	9:30:00 AM	107.778	107.763			N/A
5/9/2019	CHFJPY.fx	11:30:00 AM	107.704	107.7			N/A
5/9/2019	CHFJPY.fx	1:30:00 PM	107.758	107.742			N/A
5/9/2019	CHFJPY.fx	3:30:00 PM	107.957	107.936			N/A
5/9/2019	CHFMXN	9:30:00 AM	18.776	18.79			N/A
5/9/2019	CHFMXN	11:30:00 AM	18.8099	18.8258			N/A
5/9/2019	CHFMXN	1:30:00 PM	18.8071	18.8187			N/A
5/9/2019	CHFMXN	3:30:00 PM	18.8332	18.8396			N/A
5/9/2019	CHFNOK	9:30:00 AM	8.6	8.6075			N/A
5/9/2019	CHFNOK	11:30:00 AM	8.6231	8.6262			N/A

5/9/2019	CHFNOK	1:30:00 PM	8.5831	8.5894			N/A
5/9/2019	CHFNOK	3:30:00 PM	8.6106	8.617			N/A
5/9/2019	CHFNOK.fx	9:30:00 AM	8.60332	8.6042			N/A
5/9/2019	CHFNOK.fx	11:30:00 AM	8.62648	8.62264			N/A
5/9/2019	CHFNOK.fx	1:30:00 PM	8.58666	8.58594			N/A
5/9/2019	CHFNOK.fx	3:30:00 PM	8.61399	8.61367			N/A
5/9/2019	CHFPLN	9:30:00 AM	3.7607	3.7634			N/A
5/9/2019	CHFPLN	11:30:00 AM	3.7749	3.7769			N/A
5/9/2019	CHFPLN	1:30:00 PM	3.7646	3.7669			N/A
5/9/2019	CHFPLN	3:30:00 PM	3.7691	3.7712			N/A
5/9/2019	CHFPLN.fx	9:30:00 AM	3.75824	3.76581			N/A
5/9/2019	CHFPLN.fx	11:30:00 AM	3.77254	3.77923			N/A
5/9/2019	CHFPLN.fx	1:30:00 PM	3.76216	3.76913			N/A
5/9/2019	CHFPLN.fx	3:30:00 PM	3.76666	3.77365			N/A
5/9/2019	CHFSEK	9:30:00 AM	9.4342	9.4362			N/A
5/9/2019	CHFSEK	11:30:00 AM	9.4832	9.4841			N/A
5/9/2019	CHFSEK	1:30:00 PM	9.4672	9.4692			N/A
5/9/2019	CHFSEK	3:30:00 PM	9.4818	9.4834			N/A
5/9/2019	CHFSGD	9:30:00 AM	1.337	1.3374			N/A
5/9/2019	CHFSGD	11:30:00 AM	1.3397	1.3401			N/A
5/9/2019	CHFSGD	1:30:00 PM	1.338	1.3382			N/A
5/9/2019	CHFSGD	3:30:00 PM	1.3408	1.3409			N/A
5/9/2019	CHFSGD.fx	9:30:00 AM	1.33714	1.33717			N/A
5/9/2019	CHFSGD.fx	11:30:00 AM	1.33983	1.33985			N/A
5/9/2019	CHFSGD.fx	1:30:00 PM	1.33821	1.33805			N/A
5/9/2019	CHFSGD.fx	3:30:00 PM	1.34072	1.34079			N/A
5/9/2019	CHFZAR	9:30:00 AM	14.0791	14.0827			N/A
5/9/2019	CHFZAR	11:30:00 AM	14.1479	14.1618			N/A
5/9/2019	CHFZAR	1:30:00 PM	14.1198	14.1278			N/A
5/9/2019	CHFZAR	3:30:00 PM	14.0769	14.0895			N/A
5/9/2019	CZKJPY	9:30:00 AM	4.783	4.787			N/A
5/9/2019	CZKJPY	11:30:00 AM	4.768	4.77			N/A
5/9/2019	CZKJPY	1:30:00 PM	4.779	4.782			N/A
5/9/2019	CZKJPY	3:30:00 PM	4.785	4.788			N/A

5/9/2019	DAX30.i	9:30:00 AM	12128.71	12127.71			N/A
5/9/2019	DAX30.i	11:30:00 AM	12080.96	12074.46			N/A
5/9/2019	DAX30.i	1:30:00 PM	12083.71	12079.71			N/A
5/9/2019	DAX30.i	3:30:00 PM	12063.96	12057.71			N/A
5/9/2019	DJ30.i	9:30:00 AM					N/A
5/9/2019	DJ30.i	11:30:00 AM					N/A
5/9/2019	DJ30.i	1:30:00 PM					N/A
5/9/2019	DJ30.i	3:30:00 PM					N/A
5/9/2019	DKKJPY	9:30:00 AM					N/A
5/9/2019	DKKJPY	11:30:00 AM					N/A
5/9/2019	DKKJPY	1:30:00 PM					N/A
5/9/2019	DKKJPY	3:30:00 PM	16.48	16.49			N/A
5/9/2019	EURAUD	9:30:00 AM	1.60464	1.60481			N/A
5/9/2019	EURAUD	11:30:00 AM	1.60371	1.60397			N/A
5/9/2019	EURAUD	1:30:00 PM	1.60367	1.60397			N/A
5/9/2019	EURAUD	3:30:00 PM	1.60457	1.60494			N/A
5/9/2019	EURAUD.fx	9:30:00 AM	1.60484	1.60459			N/A
5/9/2019	EURAUD.fx	11:30:00 AM	1.60391	1.60375			N/A
5/9/2019	EURAUD.fx	1:30:00 PM	1.60387	1.60375			N/A
5/9/2019	EURAUD.fx	3:30:00 PM	1.60477	1.60476			N/A
5/9/2019	EURCAD	9:30:00 AM	1.51027	1.51099			N/A
5/9/2019	EURCAD	11:30:00 AM	1.50791	1.50848			N/A
5/9/2019	EURCAD	1:30:00 PM	1.5072	1.50796			N/A
5/9/2019	EURCAD	3:30:00 PM	1.51022	1.51001			N/A
5/9/2019	EURCAD.fx	9:30:00 AM	1.5107	1.51057			N/A
5/9/2019	EURCAD.fx	11:30:00 AM	1.50833	1.50807			N/A
5/9/2019	EURCAD.fx	1:30:00 PM	1.50762	1.50753			N/A
5/9/2019	EURCAD.fx	3:30:00 PM	1.51061	1.50977			N/A
5/9/2019	EURCHF	9:30:00 AM	1.14151	1.14158			N/A
5/9/2019	EURCHF	11:30:00 AM	1.13831	1.13824			N/A
5/9/2019	EURCHF	1:30:00 PM	1.1402	1.14009			N/A
5/9/2019	EURCHF	3:30:00 PM	1.13892	1.13896			N/A
5/9/2019	EURCHF.fx	9:30:00 AM	1.14156	1.14152			N/A
5/9/2019	EURCHF.fx	11:30:00 AM	1.13838	1.13818			N/A

5/9/2019	EURCHF.fx	1:30:00 PM	1.14026	1.14002			N/A
5/9/2019	EURCHF.fx	3:30:00 PM	1.13897	1.1389			N/A
5/9/2019	EURCZK	9:30:00 AM	25.691	25.731			N/A
5/9/2019	EURCZK	11:30:00 AM	25.691	25.726			N/A
5/9/2019	EURCZK	1:30:00 PM	25.681	25.72			N/A
5/9/2019	EURCZK	3:30:00 PM	25.673	25.711			N/A
5/9/2019	EURDKK	9:30:00 AM	7.4634	7.4647			N/A
5/9/2019	EURDKK	11:30:00 AM	7.4647	7.4656			N/A
5/9/2019	EURDKK	1:30:00 PM	7.4651	7.4662			N/A
5/9/2019	EURDKK	3:30:00 PM	7.4646	7.4659			N/A
5/9/2019	EURGBP	9:30:00 AM	0.85982	0.85983			N/A
5/9/2019	EURGBP	11:30:00 AM	0.86083	0.86067			N/A
5/9/2019	EURGBP	1:30:00 PM	0.86161	0.8616			N/A
5/9/2019	EURGBP	3:30:00 PM	0.86188	0.86186			N/A
5/9/2019	EURGBP.fx	9:30:00 AM	0.85985	0.85978			N/A
5/9/2019	EURGBP.fx	11:30:00 AM	0.86087	0.86062			N/A
5/9/2019	EURGBP.fx	1:30:00 PM	0.86164	0.86155			N/A
5/9/2019	EURGBP.fx	3:30:00 PM	0.86189	0.86183			N/A
5/9/2019	EURHKD	9:30:00 AM	8.7863	8.7911			N/A
5/9/2019	EURHKD	11:30:00 AM	8.7714	8.7746			N/A
5/9/2019	EURHKD	1:30:00 PM	8.779	8.784			N/A
5/9/2019	EURHKD	3:30:00 PM	8.7869	8.7902			N/A
5/9/2019	EURHKD.fx	9:30:00 AM	8.78917	8.78825			N/A
5/9/2019	EURHKD.fx	11:30:00 AM	8.77423	8.7718			N/A
5/9/2019	EURHKD.fx	1:30:00 PM	8.78184	8.78113			N/A
5/9/2019	EURHKD.fx	3:30:00 PM	8.78929	8.78739			N/A
5/9/2019	EURHUF	9:30:00 AM	323.79	324.49			N/A
5/9/2019	EURHUF	11:30:00 AM	324.25	324.86			N/A
5/9/2019	EURHUF	1:30:00 PM	323.37	323.98			N/A
5/9/2019	EURHUF	3:30:00 PM	322.98	323.7			N/A
5/9/2019	EURHUF.fx	9:30:00 AM	324.044	324.232			N/A
5/9/2019	EURHUF.fx	11:30:00 AM	324.539	324.716			N/A
5/9/2019	EURHUF.fx	1:30:00 PM	323.645	323.855			N/A
5/9/2019	EURHUF.fx	3:30:00 PM	323.247	323.44			N/A

5/9/2019	EURJPY	9:30:00 AM	123.028	123.019			N/A
5/9/2019	EURJPY	11:30:00 AM	122.604	122.58			N/A
5/9/2019	EURJPY	1:30:00 PM	122.862	122.852			N/A
5/9/2019	EURJPY	3:30:00 PM	122.957	122.934			N/A
5/9/2019	EURJPY.fx	9:30:00 AM	123.03	123.015			N/A
5/9/2019	EURJPY.fx	11:30:00 AM	122.607	122.576			N/A
5/9/2019	EURJPY.fx	1:30:00 PM	122.864	122.848			N/A
5/9/2019	EURJPY.fx	3:30:00 PM	122.959	122.932			N/A
5/9/2019	EURMXN	9:30:00 AM	21.4347	21.4509			N/A
5/9/2019	EURMXN	11:30:00 AM	21.4134	21.4297			N/A
5/9/2019	EURMXN	1:30:00 PM	21.4409	21.4607			N/A
5/9/2019	EURMXN	3:30:00 PM	21.4542	21.4619			N/A
5/9/2019	EURMXN.fx	9:30:00 AM	21.4432	21.4421			N/A
5/9/2019	EURMXN.fx	11:30:00 AM	21.4225	21.4212			N/A
5/9/2019	EURMXN.fx	1:30:00 PM	21.4498	21.4513			N/A
5/9/2019	EURMXN.fx	3:30:00 PM	21.4633	21.4529			N/A
5/9/2019	EURNOK	9:30:00 AM	9.8156	9.8273			N/A
5/9/2019	EURNOK	11:30:00 AM	9.8147	9.8213			N/A
5/9/2019	EURNOK	1:30:00 PM	9.7834	9.7954			N/A
5/9/2019	EURNOK	3:30:00 PM	9.8056	9.816			N/A
5/9/2019	EURNOK.fx	9:30:00 AM	9.82073	9.82206			N/A
5/9/2019	EURNOK.fx	11:30:00 AM	9.82029	9.81581			N/A
5/9/2019	EURNOK.fx	1:30:00 PM	9.78881	9.78991			N/A
5/9/2019	EURNOK.fx	3:30:00 PM	9.81102	9.8109			N/A
5/9/2019	EURNZD	9:30:00 AM	1.70182	1.70234			N/A
5/9/2019	EURNZD	11:30:00 AM	1.7	1.7005			N/A
5/9/2019	EURNZD	1:30:00 PM	1.70185	1.70255			N/A
5/9/2019	EURNZD	3:30:00 PM	1.70179	1.70231			N/A
5/9/2019	EURNZD.fx	9:30:00 AM	1.70225	1.70189			N/A
5/9/2019	EURNZD.fx	11:30:00 AM	1.70044	1.70005			N/A
5/9/2019	EURNZD.fx	1:30:00 PM	1.70226	1.7021			N/A
5/9/2019	EURNZD.fx	3:30:00 PM	1.70206	1.70191			N/A
5/9/2019	EURPLN	9:30:00 AM	4.2931	4.296			N/A
5/9/2019	EURPLN	11:30:00 AM	4.2965	4.2996			N/A

5/9/2019	EURPLN	1:30:00 PM	4.2918	4.2951			N/A
5/9/2019	EURPLN	3:30:00 PM	4.2928	4.2951			N/A
5/9/2019	EURPLN.fx	9:30:00 AM	4.29227	4.29672			N/A
5/9/2019	EURPLN.fx	11:30:00 AM	4.29591	4.30012			N/A
5/9/2019	EURPLN.fx	1:30:00 PM	4.29117	4.29574			N/A
5/9/2019	EURPLN.fx	3:30:00 PM	4.29211	4.29585			N/A
5/9/2019	EURRUB	9:30:00 AM					N/A
5/9/2019	EURRUB	11:30:00 AM					N/A
5/9/2019	EURRUB	1:30:00 PM					N/A
5/9/2019	EURRUB	3:30:00 PM					N/A
5/9/2019	EURSEK	9:30:00 AM	10.7717	10.7736			N/A
5/9/2019	EURSEK	11:30:00 AM	10.7964	10.7967			N/A
5/9/2019	EURSEK	1:30:00 PM	10.7949	10.7991			N/A
5/9/2019	EURSEK	3:30:00 PM	10.8019	10.8036			N/A
5/9/2019	EURSEK.fx	9:30:00 AM	10.77316	10.77198			N/A
5/9/2019	EURSEK.fx	11:30:00 AM	10.79808	10.79493			N/A
5/9/2019	EURSEK.fx	1:30:00 PM	10.79653	10.79749			N/A
5/9/2019	EURSEK.fx	3:30:00 PM	10.80371	10.80249			N/A
5/9/2019	EURSGD	9:30:00 AM	1.526	1.5269			N/A
5/9/2019	EURSGD	11:30:00 AM	1.5248	1.5255			N/A
5/9/2019	EURSGD	1:30:00 PM	1.5253	1.5261			N/A
5/9/2019	EURSGD	3:30:00 PM	1.527	1.5275			N/A
5/9/2019	EURSGD.fx	9:30:00 AM	1.52638	1.52647			N/A
5/9/2019	EURSGD.fx	11:30:00 AM	1.52523	1.52502			N/A
5/9/2019	EURSGD.fx	1:30:00 PM	1.52568	1.52571			N/A
5/9/2019	EURSGD.fx	3:30:00 PM	1.52716	1.52709			N/A
5/9/2019	EURUSD	9:30:00 AM	1.11957	1.11961			N/A
5/9/2019	EURUSD	11:30:00 AM	1.11769	1.11754			N/A
5/9/2019	EURUSD	1:30:00 PM	1.11865	1.11872			N/A
5/9/2019	EURUSD	3:30:00 PM	1.11967	1.11952	100	100	N/A
5/9/2019	EURUSD.fx	9:30:00 AM	1.11977	1.1197			N/A
5/9/2019	EURUSD.fx	11:30:00 AM	1.11789	1.11763			N/A
5/9/2019	EURUSD.fx	1:30:00 PM	1.11885	1.11881			N/A
5/9/2019	EURUSD.fx	3:30:00 PM	1.11982	1.11962			N/A

5/9/2019	EURZAR	9:30:00 AM	16.0722	16.079			N/A
5/9/2019	EURZAR	11:30:00 AM	16.1059	16.1231			N/A
5/9/2019	EURZAR	1:30:00 PM	16.0956	16.1134			N/A
5/9/2019	EURZAR	3:30:00 PM	16.0395	16.0569			N/A
5/9/2019	EURZAR.fx	9:30:00 AM	16.07117	16.07974			N/A
5/9/2019	EURZAR.fx	11:30:00 AM	16.10504	16.12406			N/A
5/9/2019	EURZAR.fx	1:30:00 PM	16.09545	16.11378			N/A
5/9/2019	EURZAR.fx	3:30:00 PM	16.03859	16.05783			N/A
5/9/2019	GBPAUD	9:30:00 AM	1.86689	1.86739			N/A
5/9/2019	GBPAUD	11:30:00 AM	1.86395	1.8642			N/A
5/9/2019	GBPAUD	1:30:00 PM	1.86195	1.86233			N/A
5/9/2019	GBPAUD	3:30:00 PM	1.86241	1.86303			N/A
5/9/2019	GBPAUD.fx	9:30:00 AM	1.86728	1.86699			N/A
5/9/2019	GBPAUD.fx	11:30:00 AM	1.86433	1.86377			N/A
5/9/2019	GBPAUD.fx	1:30:00 PM	1.86236	1.86191			N/A
5/9/2019	GBPAUD.fx	3:30:00 PM	1.86279	1.8627			N/A
5/9/2019	GBPCAD	9:30:00 AM	1.75656	1.75729			N/A
5/9/2019	GBPCAD	11:30:00 AM	1.7521	1.75249			N/A
5/9/2019	GBPCAD	1:30:00 PM	1.74936	1.74999			N/A
5/9/2019	GBPCAD	3:30:00 PM	1.75228	1.75219			N/A
5/9/2019	GBPCAD.fx	9:30:00 AM	1.75692	1.75691			N/A
5/9/2019	GBPCAD.fx	11:30:00 AM	1.75248	1.7521			N/A
5/9/2019	GBPCAD.fx	1:30:00 PM	1.74976	1.74958			N/A
5/9/2019	GBPCAD.fx	3:30:00 PM	1.75265	1.75203			N/A
5/9/2019	GBPCHF	9:30:00 AM	1.32752	1.32777			N/A
5/9/2019	GBPCHF	11:30:00 AM	1.32242	1.3226			N/A
5/9/2019	GBPCHF	1:30:00 PM	1.32321	1.32328			N/A
5/9/2019	GBPCHF	3:30:00 PM	1.32138	1.32155			N/A
5/9/2019	GBPCHF.fx	9:30:00 AM	1.32771	1.32756			N/A
5/9/2019	GBPCHF.fx	11:30:00 AM	1.32261	1.32239			N/A
5/9/2019	GBPCHF.fx	1:30:00 PM	1.32341	1.32307			N/A
5/9/2019	GBPCHF.fx	3:30:00 PM	1.32156	1.32139			N/A
5/9/2019	GBPCZK	9:30:00 AM	29.892	29.911			N/A
5/9/2019	GBPCZK	11:30:00 AM	29.862	29.874			N/A

5/9/2019	GBPCZK	1:30:00 PM	29.818	29.837			N/A
5/9/2019	GBPCZK	3:30:00 PM	29.801	29.819			N/A
5/9/2019	GBPDKK	9:30:00 AM	8.678	8.688			N/A
5/9/2019	GBPDKK	11:30:00 AM	8.67	8.678			N/A
5/9/2019	GBPDKK	1:30:00 PM	8.66	8.671			N/A
5/9/2019	GBPDKK	3:30:00 PM	8.658	8.669			N/A
5/9/2019	GBPDKK.fx	9:30:00 AM	8.6765	8.6888			N/A
5/9/2019	GBPDKK.fx	11:30:00 AM	8.6687	8.6787			N/A
5/9/2019	GBPDKK.fx	1:30:00 PM	8.6589	8.6711			N/A
5/9/2019	GBPDKK.fx	3:30:00 PM	8.6567	8.6694			N/A
5/9/2019	GBPHKD	9:30:00 AM	10.2153	10.2211			N/A
5/9/2019	GBPHKD	11:30:00 AM	10.1881	10.1917			N/A
5/9/2019	GBPHKD	1:30:00 PM	10.1864	10.1908			N/A
5/9/2019	GBPHKD	3:30:00 PM	10.1911	10.1959			N/A
5/9/2019	GBPHUF	9:30:00 AM	376.59	377.03			N/A
5/9/2019	GBPHUF	11:30:00 AM	376.81	377.18			N/A
5/9/2019	GBPHUF	1:30:00 PM	375.38	375.8			N/A
5/9/2019	GBPHUF	3:30:00 PM	374.61	375.02			N/A
5/9/2019	GBPJPY	9:30:00 AM	143.057	143.098			N/A
5/9/2019	GBPJPY	11:30:00 AM	142.426	142.447			N/A
5/9/2019	GBPJPY	1:30:00 PM	142.583	142.592			N/A
5/9/2019	GBPJPY	3:30:00 PM	142.657	142.663			N/A
5/9/2019	GBPJPY.fx	9:30:00 AM	143.076	143.078			N/A
5/9/2019	GBPJPY.fx	11:30:00 AM	142.445	142.428			N/A
5/9/2019	GBPJPY.fx	1:30:00 PM	142.603	142.571			N/A
5/9/2019	GBPJPY.fx	3:30:00 PM	142.676	142.645			N/A
5/9/2019	GBPMXN	9:30:00 AM	24.9272	24.9368			N/A
5/9/2019	GBPMXN	11:30:00 AM	24.8764	24.8892			N/A
5/9/2019	GBPMXN	1:30:00 PM	24.8819	24.8959			N/A
5/9/2019	GBPMXN	3:30:00 PM	24.8852	24.8907			N/A
5/9/2019	GBPNOK	9:30:00 AM	11.4175	11.4275			N/A
5/9/2019	GBPNOK	11:30:00 AM	11.4052	11.4071			N/A
5/9/2019	GBPNOK	1:30:00 PM	11.3572	11.3671			N/A
5/9/2019	GBPNOK	3:30:00 PM	11.3795	11.3885			N/A

5/9/2019	GBPNOK.fx	9:30:00 AM	11.42205	11.42242			N/A
5/9/2019	GBPNOK.fx	11:30:00 AM	11.40993	11.40218			N/A
5/9/2019	GBPNOK.fx	1:30:00 PM	11.36205	11.36201			N/A
5/9/2019	GBPNOK.fx	3:30:00 PM	11.38434	11.38439			N/A
5/9/2019	GBPNZD	9:30:00 AM	1.97946	1.97978			N/A
5/9/2019	GBPNZD	11:30:00 AM	1.97535	1.9755			N/A
5/9/2019	GBPNZD	1:30:00 PM	1.97546	1.97583			N/A
5/9/2019	GBPNZD	3:30:00 PM	1.97473	1.97518			N/A
5/9/2019	GBPNZD.fx	9:30:00 AM	1.97979	1.97941			N/A
5/9/2019	GBPNZD.fx	11:30:00 AM	1.97572	1.97508			N/A
5/9/2019	GBPNZD.fx	1:30:00 PM	1.97581	1.97545			N/A
5/9/2019	GBPNZD.fx	3:30:00 PM	1.97502	1.97484			N/A
5/9/2019	GBPPLN	9:30:00 AM	4.994	4.9955			N/A
5/9/2019	GBPPLN	11:30:00 AM	4.9935	4.9938			N/A
5/9/2019	GBPPLN	1:30:00 PM	4.9824	4.9838			N/A
5/9/2019	GBPPLN	3:30:00 PM	4.9822	4.9823			N/A
5/9/2019	GBPPLN.fx	9:30:00 AM	4.99166	4.99763			N/A
5/9/2019	GBPPLN.fx	11:30:00 AM	4.99141	4.99585			N/A
5/9/2019	GBPPLN.fx	1:30:00 PM	4.98026	4.98583			N/A
5/9/2019	GBPPLN.fx	3:30:00 PM	4.97992	4.98505			N/A
5/9/2019	GBPSEK	9:30:00 AM	12.5262	12.5309			N/A
5/9/2019	GBPSEK	11:30:00 AM	12.5418	12.5432			N/A
5/9/2019	GBPSEK	1:30:00 PM	12.5273	12.5348			N/A
5/9/2019	GBPSEK	3:30:00 PM	12.5321	12.5363			N/A
5/9/2019	GBPSEK.fx	9:30:00 AM	12.52263	12.5345			N/A
5/9/2019	GBPSEK.fx	11:30:00 AM	12.53793	12.54682			N/A
5/9/2019	GBPSEK.fx	1:30:00 PM	12.52358	12.53853			N/A
5/9/2019	GBPSEK.fx	3:30:00 PM	12.52839	12.54043			N/A
5/9/2019	GBPSGD	9:30:00 AM	1.775	1.7756			N/A
5/9/2019	GBPSGD	11:30:00 AM	1.7718	1.7721			N/A
5/9/2019	GBPSGD	1:30:00 PM	1.7705	1.7711			N/A
5/9/2019	GBPSGD	3:30:00 PM	1.7718	1.7722			N/A
5/9/2019	GBPSGD.fx	9:30:00 AM	1.77319	1.77734			N/A
5/9/2019	GBPSGD.fx	11:30:00 AM	1.77	1.77388			N/A

5/9/2019	GBPSGD.fx	1:30:00 PM	1.76863	1.77285			N/A
5/9/2019	GBPSGD.fx	3:30:00 PM	1.76966	1.77409			N/A
5/9/2019	GBPUSD	9:30:00 AM	1.30227	1.30233			N/A
5/9/2019	GBPUSD	11:30:00 AM	1.29885	1.29854			N/A
5/9/2019	GBPUSD	1:30:00 PM	1.29856	1.29851			N/A
5/9/2019	GBPUSD	3:30:00 PM	1.29939	1.29923			N/A
5/9/2019	GBPUSD.fx	9:30:00 AM	1.30233	1.30228			N/A
5/9/2019	GBPUSD.fx	11:30:00 AM	1.2989	1.29848			N/A
5/9/2019	GBPUSD.fx	1:30:00 PM	1.29861	1.29845			N/A
5/9/2019	GBPUSD.fx	3:30:00 PM	1.2993	1.29919			N/A
5/9/2019	GBPZAR	9:30:00 AM	18.6893	18.7028			N/A
5/9/2019	GBPZAR	11:30:00 AM	18.7104	18.7285			N/A
5/9/2019	GBPZAR	1:30:00 PM	18.6772	18.7033			N/A
5/9/2019	GBPZAR	3:30:00 PM	18.6085	18.6352			N/A
5/9/2019	GBPZAR.fx	9:30:00 AM	18.6957	18.6963			N/A
5/9/2019	GBPZAR.fx	11:30:00 AM	18.7174	18.72			N/A
5/9/2019	GBPZAR.fx	1:30:00 PM	18.6845	18.696			N/A
5/9/2019	GBPZAR.fx	3:30:00 PM	18.6146	18.6281			N/A
5/9/2019	GOLD	9:30:00 AM	1283.27	1283.56	0.05	0.05	N/A
5/9/2019	GOLD	11:30:00 AM	1284.97	1285.18			N/A
5/9/2019	GOLD	1:30:00 PM	1284.72	1285			N/A
5/9/2019	GOLD	3:30:00 PM	1282.46	1282.36			N/A
5/9/2019	HKDJPY	9:30:00 AM	14	14.01			N/A
5/9/2019	HKDJPY	11:30:00 AM	13.98	13.98			N/A
5/9/2019	HKDJPY	1:30:00 PM	13.99	14			N/A
5/9/2019	HKDJPY	3:30:00 PM	13.99	14			N/A
5/9/2019	HKDJPY.fx	9:30:00 AM	13.994	14			N/A
5/9/2019	HKDJPY.fx	11:30:00 AM	13.97	13.975			N/A
5/9/2019	HKDJPY.fx	1:30:00 PM	13.987	13.992			N/A
5/9/2019	HKDJPY.fx	3:30:00 PM	13.987	13.991			N/A
5/9/2019	HUFJPY	9:30:00 AM	0.3798	0.3801			N/A
5/9/2019	HUFJPY	11:30:00 AM	0.3778	0.3781			N/A
5/9/2019	HUFJPY	1:30:00 PM	0.3797	0.38			N/A
5/9/2019	HUFJPY	3:30:00 PM	0.3805	0.3808			N/A

5/9/2019	JP225.i	9:30:00 AM	21393.25	21408.25			N/A
5/9/2019	JP225.i	11:30:00 AM	21294.08	21304.08			N/A
5/9/2019	JP225.i	1:30:00 PM	21304.08	21314.08			N/A
5/9/2019	JP225.i	3:30:00 PM	21259.08	21264.91			N/A
5/9/2019	MXNJPY	9:30:00 AM	5.74	5.75			N/A
5/9/2019	MXNJPY	11:30:00 AM					N/A
5/9/2019	MXNJPY	1:30:00 PM	5.73	5.74			N/A
5/9/2019	MXNJPY	3:30:00 PM	5.73	5.74			N/A
5/9/2019	NASDAQ.i	9:30:00 AM					N/A
5/9/2019	NASDAQ.i	11:30:00 AM					N/A
5/9/2019	NASDAQ.i	1:30:00 PM					N/A
5/9/2019	NASDAQ.i	3:30:00 PM					N/A
5/9/2019	NOKJPY	9:30:00 AM	12.52	12.54			N/A
5/9/2019	NOKJPY	11:30:00 AM	12.48	12.5			N/A
5/9/2019	NOKJPY	1:30:00 PM	12.54	12.57			N/A
5/9/2019	NOKJPY	3:30:00 PM	12.52	12.55			N/A
5/9/2019	NOKJPY.fx	9:30:00 AM	12.523	12.529			N/A
5/9/2019	NOKJPY.fx	11:30:00 AM	12.488	12.488			N/A
5/9/2019	NOKJPY.fx	1:30:00 PM	12.546	12.554			N/A
5/9/2019	NOKJPY.fx	3:30:00 PM	12.53	12.534			N/A
5/9/2019	NZDCAD	9:30:00 AM	0.88722	0.8878			N/A
5/9/2019	NZDCAD	11:30:00 AM	0.8867	0.88741			N/A
5/9/2019	NZDCAD	1:30:00 PM	0.88532	0.88596			N/A
5/9/2019	NZDCAD	3:30:00 PM	0.88719	0.88729			N/A
5/9/2019	NZDCAD.fx	9:30:00 AM	0.88756	0.88746			N/A
5/9/2019	NZDCAD.fx	11:30:00 AM	0.88703	0.88705			N/A
5/9/2019	NZDCAD.fx	1:30:00 PM	0.88565	0.88562			N/A
5/9/2019	NZDCAD.fx	3:30:00 PM	0.88751	0.88713			N/A
5/9/2019	NZDCHF	9:30:00 AM	0.67041	0.67097			N/A
5/9/2019	NZDCHF	11:30:00 AM	0.66913	0.66983			N/A
5/9/2019	NZDCHF	1:30:00 PM	0.66955	0.67009			N/A
5/9/2019	NZDCHF	3:30:00 PM	0.66888	0.66944			N/A
5/9/2019	NZDCHF.fx	9:30:00 AM	0.67075	0.67061			N/A
5/9/2019	NZDCHF.fx	11:30:00 AM	0.66948	0.66947			N/A

5/9/2019	NZDCHF.fx	1:30:00 PM	0.66991	0.66974			N/A
5/9/2019	NZDCHF.fx	3:30:00 PM	0.66921	0.66915			N/A
5/9/2019	NZDCZK	9:30:00 AM	15.101	15.11			N/A
5/9/2019	NZDCZK	11:30:00 AM	15.116	15.126			N/A
5/9/2019	NZDCZK	1:30:00 PM	15.092	15.103			N/A
5/9/2019	NZDCZK	3:30:00 PM	15.089	15.098			N/A
5/9/2019	NZDDKK	9:30:00 AM	4.384	4.388			N/A
5/9/2019	NZDDKK	11:30:00 AM	4.389	4.392			N/A
5/9/2019	NZDDKK	1:30:00 PM	4.384	4.387			N/A
5/9/2019	NZDDKK	3:30:00 PM	4.382	4.386			N/A
5/9/2019	NZDHKD	9:30:00 AM	5.1598	5.1628			N/A
5/9/2019	NZDHKD	11:30:00 AM	5.1562	5.1591			N/A
5/9/2019	NZDHKD	1:30:00 PM	5.1556	5.1581			N/A
5/9/2019	NZDHKD	3:30:00 PM	5.1596	5.1622			N/A
5/9/2019	NZDHUF	9:30:00 AM	190.19	190.47			N/A
5/9/2019	NZDHUF	11:30:00 AM	190.71	190.98			N/A
5/9/2019	NZDHUF	1:30:00 PM	189.96	190.24			N/A
5/9/2019	NZDHUF	3:30:00 PM	189.65	189.9			N/A
5/9/2019	NZDJPY	9:30:00 AM	72.246	72.302			N/A
5/9/2019	NZDJPY	11:30:00 AM	72.073	72.134			N/A
5/9/2019	NZDJPY	1:30:00 PM	72.144	72.207			N/A
5/9/2019	NZDJPY	3:30:00 PM	72.207	72.267			N/A
5/9/2019	NZDJPY.fx	9:30:00 AM	72.278	72.27			N/A
5/9/2019	NZDJPY.fx	11:30:00 AM	72.106	72.101			N/A
5/9/2019	NZDJPY.fx	1:30:00 PM	72.178	72.175			N/A
5/9/2019	NZDJPY.fx	3:30:00 PM	72.238	72.237			N/A
5/9/2019	NZDMXN	9:30:00 AM	12.5922	12.5935			N/A
5/9/2019	NZDMXN	11:30:00 AM	12.5925	12.5965			N/A
5/9/2019	NZDMXN	1:30:00 PM	12.5944	12.5998			N/A
5/9/2019	NZDMXN	3:30:00 PM	12.6	12.6007			N/A
5/9/2019	NZDNOK	9:30:00 AM	5.7662	5.7687			N/A
5/9/2019	NZDNOK	11:30:00 AM	5.7709	5.7728			N/A
5/9/2019	NZDNOK	1:30:00 PM	5.7472	5.7505			N/A
5/9/2019	NZDNOK	3:30:00 PM	5.7581	5.7613			N/A

5/9/2019	NZDPLN	9:30:00 AM	2.5215	2.5229			N/A
5/9/2019	NZDPLN	11:30:00 AM	2.5263	2.5274			N/A
5/9/2019	NZDPLN	1:30:00 PM	2.521	2.5221			N/A
5/9/2019	NZDPLN	3:30:00 PM	2.5205	2.5209			N/A
5/9/2019	NZDSEK	9:30:00 AM	6.3243	6.328			N/A
5/9/2019	NZDSEK	11:30:00 AM	6.3449	6.3499			N/A
5/9/2019	NZDSEK	1:30:00 PM	6.3371	6.3431			N/A
5/9/2019	NZDSEK	3:30:00 PM	6.3409	6.345			N/A
5/9/2019	NZDSGD	9:30:00 AM	0.8965	0.8971			N/A
5/9/2019	NZDSGD	11:30:00 AM	0.8967	0.8974			N/A
5/9/2019	NZDSGD	1:30:00 PM	0.8961	0.8966			N/A
5/9/2019	NZDSGD	3:30:00 PM	0.897	0.8975			N/A
5/9/2019	NZDSGD.fx	9:30:00 AM	0.89658	0.89701			N/A
5/9/2019	NZDSGD.fx	11:30:00 AM	0.89668	0.89731			N/A
5/9/2019	NZDSGD.fx	1:30:00 PM	0.89606	0.89657			N/A
5/9/2019	NZDSGD.fx	3:30:00 PM	0.89693	0.89747			N/A
5/9/2019	NZDUSD	9:30:00 AM	0.6578	0.65779			N/A
5/9/2019	NZDUSD	11:30:00 AM	0.65728	0.65744			N/A
5/9/2019	NZDUSD	1:30:00 PM	0.65718	0.65729			N/A
5/9/2019	NZDUSD	3:30:00 PM	0.65778	0.65781			N/A
5/9/2019	NZDUSD.fx	9:30:00 AM	0.65788	0.6578			N/A
5/9/2019	NZDUSD.fx	11:30:00 AM	0.65736	0.65745			N/A
5/9/2019	NZDUSD.fx	1:30:00 PM	0.65725	0.6573			N/A
5/9/2019	NZDUSD.fx	3:30:00 PM	0.65785	0.65782			N/A
5/9/2019	NZDZAR	9:30:00 AM	9.4351	9.447			N/A
5/9/2019	NZDZAR	11:30:00 AM	9.465	9.4821			N/A
5/9/2019	NZDZAR	1:30:00 PM	9.4492	9.465			N/A
5/9/2019	NZDZAR	3:30:00 PM	9.4119	9.4284			N/A
5/9/2019	SEKJPY	9:30:00 AM	11.42	11.43			N/A
5/9/2019	SEKJPY	11:30:00 AM	11.36	11.36			N/A
5/9/2019	SEKJPY	1:30:00 PM	11.38	11.39			N/A
5/9/2019	SEKJPY	3:30:00 PM	11.38	11.39			N/A
5/9/2019	SEKJPY.fx	9:30:00 AM	11.412	11.427			N/A
5/9/2019	SEKJPY.fx	11:30:00 AM	11.35	11.362			N/A

5/9/2019	SEKJPY.fx	1:30:00 PM	11.369	11.387			N/A
5/9/2019	SEKJPY.fx	3:30:00 PM	11.374	11.388			N/A
5/9/2019	SGDJPY	9:30:00 AM	80.57	80.59			N/A
5/9/2019	SGDJPY	11:30:00 AM	80.35	80.37			N/A
5/9/2019	SGDJPY	1:30:00 PM	80.49	80.53			N/A
5/9/2019	SGDJPY	3:30:00 PM	80.49	80.51			N/A
5/9/2019	SILVER	9:30:00 AM	14.66	15.04			N/A
5/9/2019	SILVER	11:30:00 AM	14.65	15.02			N/A
5/9/2019	SILVER	1:30:00 PM	14.63	15			N/A
5/9/2019	SILVER	3:30:00 PM	14.58	14.94			N/A
5/9/2019	SPX500.i	9:30:00 AM	2871.37	2871.42			N/A
5/9/2019	SPX500.i	11:30:00 AM	2862.44	2862.92			N/A
5/9/2019	SPX500.i	1:30:00 PM	2865.37	2865.46			N/A
5/9/2019	SPX500.i	3:30:00 PM	2865.12	2864.67			N/A
5/9/2019	UK100.i	9:30:00 AM	7244.48	7245.48			N/A
5/9/2019	UK100.i	11:30:00 AM	7239.06	7236.39			N/A
5/9/2019	UK100.i	1:30:00 PM	7248.31	7248.89			N/A
5/9/2019	UK100.i	3:30:00 PM	7245.73	7246.06			N/A
5/9/2019	USDCAD	9:30:00 AM	1.34916	1.34916			N/A
5/9/2019	USDCAD	11:30:00 AM	1.34935	1.34941			N/A
5/9/2019	USDCAD	1:30:00 PM	1.34752	1.34755			N/A
5/9/2019	USDCAD	3:30:00 PM	1.34908	1.34841			N/A
5/9/2019	USDCAD.fx	9:30:00 AM	1.3492	1.34913			N/A
5/9/2019	USDCAD.fx	11:30:00 AM	1.34939	1.34937			N/A
5/9/2019	USDCAD.fx	1:30:00 PM	1.34756	1.3475			N/A
5/9/2019	USDCAD.fx	3:30:00 PM	1.34911	1.34847			N/A
5/9/2019	USDCHF	9:30:00 AM	1.01948	1.01948			N/A
5/9/2019	USDCHF	11:30:00 AM	1.0183	1.01836			N/A
5/9/2019	USDCHF	1:30:00 PM	1.0191	1.019			N/A
5/9/2019	USDCHF	3:30:00 PM	1.0172	1.01713			N/A
5/9/2019	USDCHF.fx	9:30:00 AM	1.01952	1.01942			N/A
5/9/2019	USDCHF.fx	11:30:00 AM	1.01834	1.0183			N/A
5/9/2019	USDCHF.fx	1:30:00 PM	1.01915	1.01894			N/A
5/9/2019	USDCHF.fx	3:30:00 PM	1.01725	1.01709			N/A

5/9/2019	USDCZK	9:30:00 AM	22.969	22.991			N/A
5/9/2019	USDCZK	11:30:00 AM	23.012	23.03			N/A
5/9/2019	USDCZK	1:30:00 PM	22.977	22.999			N/A
5/9/2019	USDCZK	3:30:00 PM	22.958	22.977			N/A
5/9/2019	USDCZK.fx	9:30:00 AM	22.9761	22.9832			N/A
5/9/2019	USDCZK.fx	11:30:00 AM	23.0208	23.0197			N/A
5/9/2019	USDCZK.fx	1:30:00 PM	22.9854	22.9902			N/A
5/9/2019	USDCZK.fx	3:30:00 PM	22.9659	22.9683			N/A
5/9/2019	USDDKK	9:30:00 AM	6.6662	6.6697			N/A
5/9/2019	USDDKK	11:30:00 AM	6.6785	6.6811			N/A
5/9/2019	USDDKK	1:30:00 PM	6.6715	6.6753			N/A
5/9/2019	USDDKK	3:30:00 PM	6.6671	6.6701			N/A
5/9/2019	USDDKK.fx	9:30:00 AM	6.66667	6.66779			N/A
5/9/2019	USDDKK.fx	11:30:00 AM	6.67918	6.6791			N/A
5/9/2019	USDDKK.fx	1:30:00 PM	6.67208	6.67337			N/A
5/9/2019	USDDKK.fx	3:30:00 PM	6.66756	6.66817			N/A
5/9/2019	USDHKD	9:30:00 AM	7.848	7.8485			N/A
5/9/2019	USDHKD	11:30:00 AM	7.8479	7.8482			N/A
5/9/2019	USDHKD	1:30:00 PM	7.8479	7.8483			N/A
5/9/2019	USDHKD	3:30:00 PM	7.848	7.8482			N/A
5/9/2019	USDHKD.fx	9:30:00 AM	7.84797	7.8485			N/A
5/9/2019	USDHKD.fx	11:30:00 AM	7.84783	7.84838			N/A
5/9/2019	USDHKD.fx	1:30:00 PM	7.84789	7.84835			N/A
5/9/2019	USDHKD.fx	3:30:00 PM	7.84804	7.84842			N/A
5/9/2019	USDHUF	9:30:00 AM	289.27	289.71			N/A
5/9/2019	USDHUF	11:30:00 AM	290.23	290.63			N/A
5/9/2019	USDHUF	1:30:00 PM	289.13	289.61			N/A
5/9/2019	USDHUF	3:30:00 PM	288.57	288.99			N/A
5/9/2019	USDHUF.fx	9:30:00 AM	289.465	289.51			N/A
5/9/2019	USDHUF.fx	11:30:00 AM	290.443	290.429			N/A
5/9/2019	USDHUF.fx	1:30:00 PM	289.334	289.405			N/A
5/9/2019	USDHUF.fx	3:30:00 PM	288.761	288.804			N/A
5/9/2019	USDINR	9:30:00 AM	64.87	74.85			N/A
5/9/2019	USDINR	11:30:00 AM	64.99	74.97			N/A

5/9/2019	USDINR	1:30:00 PM					N/A
5/9/2019	USDINR	3:30:00 PM					N/A
5/9/2019	USDJPY	9:30:00 AM	109.864	109.869			N/A
5/9/2019	USDJPY	11:30:00 AM	109.679	109.671			N/A
5/9/2019	USDJPY	1:30:00 PM	109.809	109.806			N/A
5/9/2019	USDJPY	3:30:00 PM	109.816	109.798			N/A
5/9/2019	USDJPY.fx	9:30:00 AM	109.87	109.862			N/A
5/9/2019	USDJPY.fx	11:30:00 AM	109.685	109.664			N/A
5/9/2019	USDJPY.fx	1:30:00 PM	109.815	109.799			N/A
5/9/2019	USDJPY.fx	3:30:00 PM	109.82	109.794			N/A
5/9/2019	USDMXN	9:30:00 AM	19.148	19.153			N/A
5/9/2019	USDMXN	11:30:00 AM	19.161	19.167			N/A
5/9/2019	USDMXN	1:30:00 PM	19.168	19.177			N/A
5/9/2019	USDMXN	3:30:00 PM	19.164	19.164			N/A
5/9/2019	USDMXN.f	9:30:00 AM	19.1512	19.1483			N/A
5/9/2019	USDMXN.f	11:30:00 AM	19.1649	19.1621			N/A
5/9/2019	USDMXN.f	1:30:00 PM	19.1723	19.1727			N/A
5/9/2019	USDMXN.f	3:30:00 PM	19.1672	19.1596			N/A
5/9/2019	USDNOK	9:30:00 AM	8.7677	8.775			N/A
5/9/2019	USDNOK	11:30:00 AM	8.7809	8.7853			N/A
5/9/2019	USDNOK	1:30:00 PM	8.7457	8.7544			N/A
5/9/2019	USDNOK	3:30:00 PM	8.7591	8.7655			N/A
5/9/2019	USDNOK.fx	9:30:00 AM	8.77134	8.77085			N/A
5/9/2019	USDNOK.fx	11:30:00 AM	8.78478	8.7807			N/A
5/9/2019	USDNOK.fx	1:30:00 PM	8.74965	8.75016			N/A
5/9/2019	USDNOK.fx	3:30:00 PM	8.76313	8.76123			N/A
5/9/2019	USDPLN	9:30:00 AM	3.8346	3.836			N/A
5/9/2019	USDPLN	11:30:00 AM	3.8451	3.8452			N/A
5/9/2019	USDPLN	1:30:00 PM	3.8367	3.8382			N/A
5/9/2019	USDPLN	3:30:00 PM	3.8349	3.8349			N/A
5/9/2019	USDPLN.fx	9:30:00 AM	3.83366	3.83681			N/A
5/9/2019	USDPLN.fx	11:30:00 AM	3.84418	3.84601			N/A
5/9/2019	USDPLN.fx	1:30:00 PM	3.83586	3.83903			N/A
5/9/2019	USDPLN.fx	3:30:00 PM	3.83402	3.83612			N/A

5/9/2019	USDRUB	9:30:00 AM					N/A
5/9/2019	USDRUB	11:30:00 AM					N/A
5/9/2019	USDRUB	1:30:00 PM					N/A
5/9/2019	USDRUB	3:30:00 PM					N/A
5/9/2019	USDSEK	9:30:00 AM	9.6194	9.6213			N/A
5/9/2019	USDSEK	11:30:00 AM	9.6569	9.6586			N/A
5/9/2019	USDSEK	1:30:00 PM	9.6474	9.6521			N/A
5/9/2019	USDSEK	3:30:00 PM	9.6471	9.6476			N/A
5/9/2019	USDSEK.fx	9:30:00 AM	9.62184	9.61893			N/A
5/9/2019	USDSEK.fx	11:30:00 AM	9.65963	9.65644			N/A
5/9/2019	USDSEK.fx	1:30:00 PM	9.64989	9.65028			N/A
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5/9/2019	USDSGD	9:30:00 AM	1.3631	1.3631			N/A
5/9/2019	USDSGD	11:30:00 AM	1.3642	1.3646			N/A
5/9/2019	USDSGD	1:30:00 PM	1.3634	1.3637			N/A
5/9/2019	USDSGD	3:30:00 PM	1.3637	1.3639			N/A
5/9/2019	USDSGD.fx	9:30:00 AM	1.36306	1.36335			N/A
5/9/2019	USDSGD.fx	11:30:00 AM	1.36421	1.36463			N/A
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5/9/2019	USDZAR	9:30:00 AM	14.3532	14.3603			N/A
5/9/2019	USDZAR	11:30:00 AM	14.4079	14.4221			N/A
5/9/2019	USDZAR	1:30:00 PM	14.3856	14.4019			N/A
5/9/2019	USDZAR	3:30:00 PM	14.3233	14.3412			N/A
5/9/2019	USDZAR.fx	9:30:00 AM	14.35826	14.35472			N/A
5/9/2019	USDZAR.fx	11:30:00 AM	14.41447	14.42048			N/A
5/9/2019	USDZAR.fx	1:30:00 PM	14.39162	14.39582			N/A
5/9/2019	USDZAR.fx	3:30:00 PM	14.32886	14.33568			N/A
5/9/2019	XAUUSD	9:30:00 AM	1283.27	1283.56			N/A
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5/9/2019	XAUUSD	3:30:00 PM	1282.46	1282.36			N/A
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5/10/2019	#ZNGA	3:30:00 PM					N/A
5/10/2019	AUDCAD	9:30:00 AM	0.94181	0.94244			N/A
5/10/2019	AUDCAD	11:30:00 AM	0.94166	0.94222			N/A
5/10/2019	AUDCAD	1:30:00 PM	0.94092	0.94159			N/A
5/10/2019	AUDCAD	3:30:00 PM	0.94171	0.93926			N/A
5/10/2019	AUDCAD.fx	9:30:00 AM	0.94215	0.94208			N/A
5/10/2019	AUDCAD.fx	11:30:00 AM	0.94197	0.94188			N/A
5/10/2019	AUDCAD.fx	1:30:00 PM	0.94126	0.94124			N/A
5/10/2019	AUDCAD.fx	3:30:00 PM	0.94175	0.93899			N/A
5/10/2019	AUDCHF	9:30:00 AM	0.7094	0.71011			N/A
5/10/2019	AUDCHF	11:30:00 AM	0.70995	0.71067			N/A
5/10/2019	AUDCHF	1:30:00 PM	0.70942	0.71014			N/A
5/10/2019	AUDCHF	3:30:00 PM	0.70874	0.70848			N/A
5/10/2019	AUDCHF.fx	9:30:00 AM	0.70975	0.70976			N/A
5/10/2019	AUDCHF.fx	11:30:00 AM	0.71028	0.71033			N/A
5/10/2019	AUDCHF.fx	1:30:00 PM	0.70978	0.70979			N/A
5/10/2019	AUDCHF.fx	3:30:00 PM	0.70906	0.70814			N/A
5/10/2019	AUDCZK	9:30:00 AM	16.014	16.031			N/A
5/10/2019	AUDCZK	11:30:00 AM	16.02	16.032			N/A
5/10/2019	AUDCZK	1:30:00 PM	16.005	16.021			N/A
5/10/2019	AUDCZK	3:30:00 PM	16.024	16.021			N/A
5/10/2019	AUDDKK	9:30:00 AM	4.6496	4.6544			N/A
5/10/2019	AUDDKK	11:30:00 AM	4.6543	4.6582			N/A
5/10/2019	AUDDKK	1:30:00 PM	4.6503	4.6551			N/A
5/10/2019	AUDDKK	3:30:00 PM	4.6538	4.6535			N/A
5/10/2019	AUDHKD	9:30:00 AM	5.4868	5.4906			N/A
5/10/2019	AUDHKD	11:30:00 AM	5.4894	5.493			N/A

5/10/2019	AUDHKD	1:30:00 PM	5.4884	5.4918			N/A
5/10/2019	AUDHKD	3:30:00 PM	5.4939	5.4904			N/A
5/10/2019	AUDHUF	9:30:00 AM	201.81	202.03			N/A
5/10/2019	AUDHUF	11:30:00 AM	201.52	201.72			N/A
5/10/2019	AUDHUF	1:30:00 PM	201.32	201.55			N/A
5/10/2019	AUDHUF	3:30:00 PM	201.49	201.53			N/A
5/10/2019	AUDJPY	9:30:00 AM	76.753	76.817			N/A
5/10/2019	AUDJPY	11:30:00 AM	76.879	76.906			N/A
5/10/2019	AUDJPY	1:30:00 PM	76.823	76.888	50	50	N/A
5/10/2019	AUDJPY	3:30:00 PM	76.811	76.768			N/A
5/10/2019	AUDJPY.fx	9:30:00 AM	76.787	76.781			N/A
5/10/2019	AUDJPY.fx	11:30:00 AM	76.911	76.872			N/A
5/10/2019	AUDJPY.fx	1:30:00 PM	76.857	76.852			N/A
5/10/2019	AUDJPY.fx	3:30:00 PM	76.847	76.733			N/A
5/10/2019	AUDMXN	9:30:00 AM	13.4576	13.4625			N/A
5/10/2019	AUDMXN	11:30:00 AM	13.4322	13.4357			N/A
5/10/2019	AUDMXN	1:30:00 PM	13.3995	13.4042			N/A
5/10/2019	AUDMXN	3:30:00 PM	13.4211	13.4118			N/A
5/10/2019	AUDNOK	9:30:00 AM	6.1356	6.1407			N/A
5/10/2019	AUDNOK	11:30:00 AM	6.122	6.126			N/A
5/10/2019	AUDNOK	1:30:00 PM	6.1121	6.1175			N/A
5/10/2019	AUDNOK	3:30:00 PM	6.1194	6.1168			N/A
5/10/2019	AUDNOK.fx	9:30:00 AM	6.1371	6.1391			N/A
5/10/2019	AUDNOK.fx	11:30:00 AM	6.1235	6.1244			N/A
5/10/2019	AUDNOK.fx	1:30:00 PM	6.1137	6.1158			N/A
5/10/2019	AUDNOK.fx	3:30:00 PM	6.1205	6.115			N/A
5/10/2019	AUDNZD	9:30:00 AM	1.06096	1.06182			N/A
5/10/2019	AUDNZD	11:30:00 AM	1.06062	1.06145			N/A
5/10/2019	AUDNZD	1:30:00 PM	1.06038	1.0613			N/A
5/10/2019	AUDNZD	3:30:00 PM	1.0599	1.06052			N/A
5/10/2019	AUDNZD.fx	9:30:00 AM	1.0614	1.06136			N/A
5/10/2019	AUDNZD.fx	11:30:00 AM	1.06103	1.061			N/A
5/10/2019	AUDNZD.fx	1:30:00 PM	1.06081	1.06085			N/A
5/10/2019	AUDNZD.fx	3:30:00 PM	1.06023	1.06008			N/A

5/10/2019	AUDPLN	9:30:00 AM	2.6774	2.6804			N/A
5/10/2019	AUDPLN	11:30:00 AM	2.6784	2.6811			N/A
5/10/2019	AUDPLN	1:30:00 PM	2.6772	2.6804			N/A
5/10/2019	AUDPLN	3:30:00 PM	2.6774	2.678			N/A
5/10/2019	AUDSEK	9:30:00 AM	6.7496	6.7515			N/A
5/10/2019	AUDSEK	11:30:00 AM	6.7383	6.7404			N/A
5/10/2019	AUDSEK	1:30:00 PM	6.7289	6.7316			N/A
5/10/2019	AUDSEK	3:30:00 PM	6.7377	6.7347			N/A
5/10/2019	AUDSEK.fx	9:30:00 AM	6.7449	6.7561			N/A
5/10/2019	AUDSEK.fx	11:30:00 AM	6.7338	6.7448			N/A
5/10/2019	AUDSEK.fx	1:30:00 PM	6.7243	6.7361			N/A
5/10/2019	AUDSEK.fx	3:30:00 PM	6.7321	6.7389			N/A
5/10/2019	AUDSGD	9:30:00 AM	0.9531	0.9534			N/A
5/10/2019	AUDSGD	11:30:00 AM	0.9536	0.9538			N/A
5/10/2019	AUDSGD	1:30:00 PM	0.9532	0.9535			N/A
5/10/2019	AUDSGD	3:30:00 PM	0.9544	0.9538			N/A
5/10/2019	AUDSGD.fx	9:30:00 AM	0.95321	0.95327			N/A
5/10/2019	AUDSGD.fx	11:30:00 AM	0.95371	0.95365			N/A
5/10/2019	AUDSGD.fx	1:30:00 PM	0.95331	0.95343			N/A
5/10/2019	AUDSGD.fx	3:30:00 PM	0.95446	0.95359			N/A
5/10/2019	AUDUSD	9:30:00 AM	0.69958	0.69964			N/A
5/10/2019	AUDUSD	11:30:00 AM	0.69999	0.69998			N/A
5/10/2019	AUDUSD	1:30:00 PM	0.69969	0.6998			N/A
5/10/2019	AUDUSD	3:30:00 PM	0.70055	0.69965			N/A
5/10/2019	AUDUSD.fx	9:30:00 AM	0.69963	0.69958			N/A
5/10/2019	AUDUSD.fx	11:30:00 AM	0.70003	0.69993			N/A
5/10/2019	AUDUSD.fx	1:30:00 PM	0.69975	0.69974			N/A
5/10/2019	AUDUSD.fx	3:30:00 PM	0.70059	0.69961			N/A
5/10/2019	AUDZAR	9:30:00 AM	10.0015	10.0069			N/A
5/10/2019	AUDZAR	11:30:00 AM	9.9633	9.9724			N/A
5/10/2019	AUDZAR	1:30:00 PM	9.9364	9.9501			N/A
5/10/2019	AUDZAR	3:30:00 PM	9.9494	9.9585			N/A
5/10/2019	AUS200.i	9:30:00 AM					N/A
5/10/2019	AUS200.i	11:30:00 AM	6317.84	6317.54			N/A

5/10/2019	AUS200.i	1:30:00 PM	6327.04	6330.34			N/A
5/10/2019	AUS200.i	3:30:00 PM	6310.23	6306.3			N/A
5/10/2019	BCHUSD	9:30:00 AM	297.89	299.33			N/A
5/10/2019	BCHUSD	11:30:00 AM	295.87	297.21			N/A
5/10/2019	BCHUSD	1:30:00 PM	294.4	296.34			N/A
5/10/2019	BCHUSD	3:30:00 PM	293.12	294.57			N/A
5/10/2019	CADCHF	9:30:00 AM	0.753	0.7537			N/A
5/10/2019	CADCHF	11:30:00 AM	0.75377	0.75442			N/A
5/10/2019	CADCHF	1:30:00 PM	0.75371	0.75443	50	50	N/A
5/10/2019	CADCHF	3:30:00 PM	0.75497	0.7521			N/A
5/10/2019	CADCHF.fx	9:30:00 AM	0.75334	0.75335			N/A
5/10/2019	CADCHF.fx	11:30:00 AM	0.7541	0.75408			N/A
5/10/2019	CADCHF.fx	1:30:00 PM	0.75405	0.75407			N/A
5/10/2019	CADCHF.fx	3:30:00 PM	0.75526	0.75199			N/A
5/10/2019	CADCZK	9:30:00 AM	17.001	17.018			N/A
5/10/2019	CADCZK	11:30:00 AM	17.013	17.021			N/A
5/10/2019	CADCZK	1:30:00 PM	17.007	17.023			N/A
5/10/2019	CADCZK	3:30:00 PM	17.073	17.009			N/A
5/10/2019	CADDDKK	9:30:00 AM					N/A
5/10/2019	CADDDKK	11:30:00 AM	4.942	4.943			N/A
5/10/2019	CADDDKK	1:30:00 PM					N/A
5/10/2019	CADDDKK	3:30:00 PM	4.957	4.941			N/A
5/10/2019	CADHKD	9:30:00 AM	5.8251	5.8288			N/A
5/10/2019	CADHKD	11:30:00 AM	5.8292	5.8326			N/A
5/10/2019	CADHKD	1:30:00 PM	5.8318	5.8353			N/A
5/10/2019	CADHKD	3:30:00 PM	5.8534	5.8295			N/A
5/10/2019	CADHUF	9:30:00 AM	214.27	214.42			N/A
5/10/2019	CADHUF	11:30:00 AM	214.03	214.13			N/A
5/10/2019	CADHUF	1:30:00 PM	213.97	214.11			N/A
5/10/2019	CADHUF	3:30:00 PM	214.71	213.89			N/A
5/10/2019	CADJPY	9:30:00 AM	81.475	81.529			N/A
5/10/2019	CADJPY	11:30:00 AM	81.611	81.647			N/A
5/10/2019	CADJPY	1:30:00 PM	81.617	81.681			N/A
5/10/2019	CADJPY	3:30:00 PM	81.82	81.523			N/A

5/10/2019	CADJPY.fx	9:30:00 AM	81.509	81.494			N/A
5/10/2019	CADJPY.fx	11:30:00 AM	81.643	81.612			N/A
5/10/2019	CADJPY.fx	1:30:00 PM	81.65	81.646			N/A
5/10/2019	CADJPY.fx	3:30:00 PM	81.848	81.51			N/A
5/10/2019	CADMXN	9:30:00 AM	14.2861	14.2939			N/A
5/10/2019	CADMXN	11:30:00 AM	14.262	14.2686			N/A
5/10/2019	CADMXN	1:30:00 PM	14.2375	14.2441			N/A
5/10/2019	CADMXN	3:30:00 PM	14.2978	14.2507			N/A
5/10/2019	CADNOK	9:30:00 AM	6.5123	6.5164			N/A
5/10/2019	CADNOK	11:30:00 AM	6.4968	6.4996			N/A
5/10/2019	CADNOK	1:30:00 PM	6.4927	6.4973			N/A
5/10/2019	CADNOK	3:30:00 PM	6.514	6.4907			N/A
5/10/2019	CADPLN	9:30:00 AM	2.8418	2.8436			N/A
5/10/2019	CADPLN	11:30:00 AM	2.8433	2.8437			N/A
5/10/2019	CADPLN	1:30:00 PM	2.8448	2.8466			N/A
5/10/2019	CADPLN	3:30:00 PM	2.8511	2.8414			N/A
5/10/2019	CADSEK	9:30:00 AM	7.1629	7.1662			N/A
5/10/2019	CADSEK	11:30:00 AM	7.1523	7.1535			N/A
5/10/2019	CADSEK	1:30:00 PM	7.1473	7.151			N/A
5/10/2019	CADSEK	3:30:00 PM	7.173	7.1474			N/A
5/10/2019	CADSGD	9:30:00 AM	1.011	1.0113			N/A
5/10/2019	CADSGD	11:30:00 AM	1.0117	1.012			N/A
5/10/2019	CADSGD	1:30:00 PM	1.0121	1.0124			N/A
5/10/2019	CADSGD	3:30:00 PM	1.0151	1.0117			N/A
5/10/2019	CADZAR	9:30:00 AM	10.6166	10.6248			N/A
5/10/2019	CADZAR	11:30:00 AM	10.5777	10.5905			N/A
5/10/2019	CADZAR	1:30:00 PM	10.5576	10.5731			N/A
5/10/2019	CADZAR	3:30:00 PM	10.5962	10.5776			N/A
5/10/2019	CHFCZK	9:30:00 AM	22.572	22.588			N/A
5/10/2019	CHFCZK	11:30:00 AM	22.563	22.571			N/A
5/10/2019	CHFCZK	1:30:00 PM	22.558	22.574			N/A
5/10/2019	CHFCZK	3:30:00 PM	22.61	22.62			N/A
5/10/2019	CHFDKK	9:30:00 AM	6.553	6.556			N/A
5/10/2019	CHFDKK	11:30:00 AM	6.555	6.558			N/A

5/10/2019	CHFDKK	1:30:00 PM	6.554	6.557			N/A
5/10/2019	CHFDKK	3:30:00 PM	6.567	6.567			N/A
5/10/2019	CHFDKK.fx	9:30:00 AM	6.5512	6.5573			N/A
5/10/2019	CHFDKK.fx	11:30:00 AM	6.5532	6.5581			N/A
5/10/2019	CHFDKK.fx	1:30:00 PM	6.5523	6.5585			N/A
5/10/2019	CHFDKK.fx	3:30:00 PM	6.5652	6.5689			N/A
5/10/2019	CHFHKD	9:30:00 AM	7.7333	7.7371			N/A
5/10/2019	CHFHKD	11:30:00 AM	7.7315	7.7354			N/A
5/10/2019	CHFHKD	1:30:00 PM	7.7349	7.7381			N/A
5/10/2019	CHFHKD	3:30:00 PM	7.7537	7.7528			N/A
5/10/2019	CHFHUF	9:30:00 AM	284.36	284.73			N/A
5/10/2019	CHFHUF	11:30:00 AM	283.77	284.09			N/A
5/10/2019	CHFHUF	1:30:00 PM	283.68	284.05			N/A
5/10/2019	CHFHUF	3:30:00 PM	284.3	284.59			N/A
5/10/2019	CHFJPY	9:30:00 AM	108.157	108.213			N/A
5/10/2019	CHFJPY	11:30:00 AM	108.244	108.262			N/A
5/10/2019	CHFJPY	1:30:00 PM	108.249	108.311			N/A
5/10/2019	CHFJPY	3:30:00 PM	108.379	108.396			N/A
5/10/2019	CHFJPY.fx	9:30:00 AM	108.187	108.178			N/A
5/10/2019	CHFJPY.fx	11:30:00 AM	108.277	108.228			N/A
5/10/2019	CHFJPY.fx	1:30:00 PM	108.282	108.277			N/A
5/10/2019	CHFJPY.fx	3:30:00 PM	108.391	108.364			N/A
5/10/2019	CHFMXN	9:30:00 AM	18.9639	18.9734			N/A
5/10/2019	CHFMXN	11:30:00 AM	18.9152	18.9223			N/A
5/10/2019	CHFMXN	1:30:00 PM	18.8812	18.8909			N/A
5/10/2019	CHFMXN	3:30:00 PM	18.9422	18.9331			N/A
5/10/2019	CHFNOK	9:30:00 AM	8.6446	8.6523			N/A
5/10/2019	CHFNOK	11:30:00 AM	8.6185	8.6252			N/A
5/10/2019	CHFNOK	1:30:00 PM	8.6109	8.619			N/A
5/10/2019	CHFNOK	3:30:00 PM	8.6328	8.6346			N/A
5/10/2019	CHFNOK.fx	9:30:00 AM	8.64792	8.64891			N/A
5/10/2019	CHFNOK.fx	11:30:00 AM	8.62184	8.62172			N/A
5/10/2019	CHFNOK.fx	1:30:00 PM	8.61452	8.61536			N/A
5/10/2019	CHFNOK.fx	3:30:00 PM	8.6338	8.63143			N/A

5/10/2019	CHFPLN	9:30:00 AM	3.7729	3.7757			N/A
5/10/2019	CHFPLN	11:30:00 AM	3.7715	3.7738			N/A
5/10/2019	CHFPLN	1:30:00 PM	3.7725	3.7754			N/A
5/10/2019	CHFPLN	3:30:00 PM	3.7782	3.7791			N/A
5/10/2019	CHFPLN.fx	9:30:00 AM	3.77036	3.77825			N/A
5/10/2019	CHFPLN.fx	11:30:00 AM	3.76906	3.77615			N/A
5/10/2019	CHFPLN.fx	1:30:00 PM	3.77026	3.77763			N/A
5/10/2019	CHFPLN.fx	3:30:00 PM	3.77554	3.78176			N/A
5/10/2019	CHFSEK	9:30:00 AM	9.5081	9.513			N/A
5/10/2019	CHFSEK	11:30:00 AM	9.4848	9.4874			N/A
5/10/2019	CHFSEK	1:30:00 PM	9.4793	9.4836			N/A
5/10/2019	CHFSEK	3:30:00 PM	9.5064	9.5025			N/A
5/10/2019	CHFSGD	9:30:00 AM	1.3428	1.3433			N/A
5/10/2019	CHFSGD	11:30:00 AM	1.3425	1.3428			N/A
5/10/2019	CHFSGD	1:30:00 PM	1.343	1.3431			N/A
5/10/2019	CHFSGD	3:30:00 PM	1.3466	1.3462			N/A
5/10/2019	CHFSGD.fx	9:30:00 AM	1.34303	1.34307			N/A
5/10/2019	CHFSGD.fx	11:30:00 AM	1.34272	1.34258			N/A
5/10/2019	CHFSGD.fx	1:30:00 PM	1.34313	1.34325			N/A
5/10/2019	CHFSGD.fx	3:30:00 PM	1.34676	1.34607			N/A
5/10/2019	CHFZAR	9:30:00 AM	14.0974	14.0987			N/A
5/10/2019	CHFZAR	11:30:00 AM	14.0345	14.0399			N/A
5/10/2019	CHFZAR	1:30:00 PM	14.0058	14.0176			N/A
5/10/2019	CHFZAR	3:30:00 PM	14.055	14.0484			N/A
5/10/2019	CZKJPY	9:30:00 AM					N/A
5/10/2019	CZKJPY	11:30:00 AM	4.798	4.798			N/A
5/10/2019	CZKJPY	1:30:00 PM	4.798	4.801			N/A
5/10/2019	CZKJPY	3:30:00 PM	4.793	4.796			N/A
5/10/2019	DAX30.i	9:30:00 AM	12080.05	12078.05			N/A
5/10/2019	DAX30.i	11:30:00 AM	12111.3	12093.55			N/A
5/10/2019	DAX30.i	1:30:00 PM	12106.3	12100.8			N/A
5/10/2019	DAX30.i	3:30:00 PM	12054.25	12031.8			N/A
5/10/2019	DJ30.i	9:30:00 AM					N/A
5/10/2019	DJ30.i	11:30:00 AM					N/A

5/10/2019	DJ30.i	1:30:00 PM					N/A
5/10/2019	DJ30.i	3:30:00 PM					N/A
5/10/2019	DKKJPY	9:30:00 AM					N/A
5/10/2019	DKKJPY	11:30:00 AM	16.53	16.53			N/A
5/10/2019	DKKJPY	1:30:00 PM					N/A
5/10/2019	DKKJPY	3:30:00 PM					N/A
5/10/2019	EURAUD	9:30:00 AM	1.6041	1.60445			N/A
5/10/2019	EURAUD	11:30:00 AM	1.60269	1.60279			N/A
5/10/2019	EURAUD	1:30:00 PM	1.60377	1.60417			N/A
5/10/2019	EURAUD	3:30:00 PM	1.60442	1.6029			N/A
5/10/2019	EURAUD.fx	9:30:00 AM	1.60431	1.60422			N/A
5/10/2019	EURAUD.fx	11:30:00 AM	1.60287	1.60258			N/A
5/10/2019	EURAUD.fx	1:30:00 PM	1.60398	1.60393			N/A
5/10/2019	EURAUD.fx	3:30:00 PM	1.60463	1.60269			N/A
5/10/2019	EURCAD	9:30:00 AM	1.51168	1.51236			N/A
5/10/2019	EURCAD	11:30:00 AM	1.51006	1.5104			N/A
5/10/2019	EURCAD	1:30:00 PM	1.50994	1.51075			N/A
5/10/2019	EURCAD	3:30:00 PM	1.51151	1.50562			N/A
5/10/2019	EURCAD.fx	9:30:00 AM	1.51209	1.51193			N/A
5/10/2019	EURCAD.fx	11:30:00 AM	1.51046	1.50998			N/A
5/10/2019	EURCAD.fx	1:30:00 PM	1.51038	1.51032			N/A
5/10/2019	EURCAD.fx	3:30:00 PM	1.51133	1.50526			N/A
5/10/2019	EURCHF	9:30:00 AM	1.13907	1.13914			N/A
5/10/2019	EURCHF	11:30:00 AM	1.13889	1.13878			N/A
5/10/2019	EURCHF	1:30:00 PM	1.13884	1.13896			N/A
5/10/2019	EURCHF	3:30:00 PM	1.13706	1.13662		10	N/A
5/10/2019	EURCHF.fx	9:30:00 AM	1.13912	1.13908			N/A
5/10/2019	EURCHF.fx	11:30:00 AM	1.13893	1.13873			N/A
5/10/2019	EURCHF.fx	1:30:00 PM	1.1389	1.1389			N/A
5/10/2019	EURCHF.fx	3:30:00 PM	1.13708	1.1366			N/A
5/10/2019	EURCZK	9:30:00 AM	25.698	25.737			N/A
5/10/2019	EURCZK	11:30:00 AM	25.679	25.715			N/A
5/10/2019	EURCZK	1:30:00 PM	25.677	25.716			N/A
5/10/2019	EURCZK	3:30:00 PM	25.688	25.721			N/A

5/10/2019	EURDKK	9:30:00 AM	7.4638	7.4651			N/A
5/10/2019	EURDKK	11:30:00 AM	7.4638	7.4651			N/A
5/10/2019	EURDKK	1:30:00 PM	7.4653	7.4663			N/A
5/10/2019	EURDKK	3:30:00 PM	7.4641	7.4648			N/A
5/10/2019	EURGBP	9:30:00 AM	0.86311	0.86317			N/A
5/10/2019	EURGBP	11:30:00 AM	0.86293	0.86217			N/A
5/10/2019	EURGBP	1:30:00 PM	0.86272	0.8628			N/A
5/10/2019	EURGBP	3:30:00 PM	0.86286	0.86258			N/A
5/10/2019	EURGBP.fx	9:30:00 AM	0.86314	0.86312			N/A
5/10/2019	EURGBP.fx	11:30:00 AM	0.86297	0.86218			N/A
5/10/2019	EURGBP.fx	1:30:00 PM	0.86276	0.86274			N/A
5/10/2019	EURGBP.fx	3:30:00 PM	0.86287	0.86253			N/A
5/10/2019	EURHKD	9:30:00 AM	8.8102	8.8143			N/A
5/10/2019	EURHKD	11:30:00 AM	8.8075	8.8091			N/A
5/10/2019	EURHKD	1:30:00 PM	8.8105	8.8147			N/A
5/10/2019	EURHKD	3:30:00 PM	8.8181	8.8155			N/A
5/10/2019	EURHKD.fx	9:30:00 AM	8.81297	8.81144			N/A
5/10/2019	EURHKD.fx	11:30:00 AM	8.81033	8.80631			N/A
5/10/2019	EURHKD.fx	1:30:00 PM	8.8133	8.81189			N/A
5/10/2019	EURHKD.fx	3:30:00 PM	8.82091	8.81371			N/A
5/10/2019	EURHUF	9:30:00 AM	323.88	324.54			N/A
5/10/2019	EURHUF	11:30:00 AM	323.21	323.78			N/A
5/10/2019	EURHUF	1:30:00 PM	323.02	323.73			N/A
5/10/2019	EURHUF	3:30:00 PM	323.24	323.93			N/A
5/10/2019	EURHUF.fx	9:30:00 AM	324.17	324.274			N/A
5/10/2019	EURHUF.fx	11:30:00 AM	323.464	323.655			N/A
5/10/2019	EURHUF.fx	1:30:00 PM	323.282	323.448			N/A
5/10/2019	EURHUF.fx	3:30:00 PM	323.493	323.673			N/A
5/10/2019	EURJPY	9:30:00 AM	123.237	123.232			N/A
5/10/2019	EURJPY	11:30:00 AM	123.326	123.239			N/A
5/10/2019	EURJPY	1:30:00 PM	123.321	123.319			N/A
5/10/2019	EURJPY	3:30:00 PM	123.228	123.179			N/A
5/10/2019	EURJPY.fx	9:30:00 AM	123.24	123.225			N/A
5/10/2019	EURJPY.fx	11:30:00 AM	123.328	123.235			N/A

5/10/2019	EURJPY.fx	1:30:00 PM	123.326	123.314			N/A
5/10/2019	EURJPY.fx	3:30:00 PM	123.227	123.175			N/A
5/10/2019	EURMXN	9:30:00 AM	21.6032	21.6152			N/A
5/10/2019	EURMXN	11:30:00 AM	21.5493	21.5525			N/A
5/10/2019	EURMXN	1:30:00 PM	21.5055	21.5178			N/A
5/10/2019	EURMXN	3:30:00 PM	21.5619	21.5271			N/A
5/10/2019	EURMXN.fx	9:30:00 AM	21.6117	21.6072			N/A
5/10/2019	EURMXN.fx	11:30:00 AM	21.5582	21.5433			N/A
5/10/2019	EURMXN.fx	1:30:00 PM	21.5154	21.5081			N/A
5/10/2019	EURMXN.fx	3:30:00 PM	21.5706	21.5286			N/A
5/10/2019	EURNOK	9:30:00 AM	9.8454	9.857			N/A
5/10/2019	EURNOK	11:30:00 AM	9.8128	9.8234			N/A
5/10/2019	EURNOK	1:30:00 PM	9.8055	9.8173			N/A
5/10/2019	EURNOK	3:30:00 PM	9.8109	9.8202			N/A
5/10/2019	EURNOK.fx	9:30:00 AM	9.85071	9.8516			N/A
5/10/2019	EURNOK.fx	11:30:00 AM	9.8182	9.8179			N/A
5/10/2019	EURNOK.fx	1:30:00 PM	9.8109	9.81182			N/A
5/10/2019	EURNOK.fx	3:30:00 PM	9.81422	9.81506			N/A
5/10/2019	EURNZD	9:30:00 AM	1.70309	1.70378			N/A
5/10/2019	EURNZD	11:30:00 AM	1.70091	1.70141			N/A
5/10/2019	EURNZD	1:30:00 PM	1.70178	1.70257			N/A
5/10/2019	EURNZD	3:30:00 PM	1.70157	1.70033			N/A
5/10/2019	EURNZD.fx	9:30:00 AM	1.70352	1.70337			N/A
5/10/2019	EURNZD.fx	11:30:00 AM	1.7013	1.70099			N/A
5/10/2019	EURNZD.fx	1:30:00 PM	1.7022	1.70214			N/A
5/10/2019	EURNZD.fx	3:30:00 PM	1.70169	1.70004			N/A
5/10/2019	EURPLN	9:30:00 AM	4.2978	4.3006			N/A
5/10/2019	EURPLN	11:30:00 AM	4.2947	4.2979			N/A
5/10/2019	EURPLN	1:30:00 PM	4.2966	4.2997			N/A
5/10/2019	EURPLN	3:30:00 PM	4.2944	4.2971			N/A
5/10/2019	EURPLN.fx	9:30:00 AM	4.29697	4.30152			N/A
5/10/2019	EURPLN.fx	11:30:00 AM	4.2942	4.29833			N/A
5/10/2019	EURPLN.fx	1:30:00 PM	4.29603	4.30032			N/A
5/10/2019	EURPLN.fx	3:30:00 PM	4.29373	4.29793			N/A

5/10/2019	EURRUB	9:30:00 AM					N/A
5/10/2019	EURRUB	11:30:00 AM	72.826	73.229			N/A
5/10/2019	EURRUB	1:30:00 PM	72.828	73.254			N/A
5/10/2019	EURRUB	3:30:00 PM	73.05	73.319			N/A
5/10/2019	EURSEK	9:30:00 AM	10.8327	10.8354			N/A
5/10/2019	EURSEK	11:30:00 AM	10.8032	10.8077			N/A
5/10/2019	EURSEK	1:30:00 PM	10.7969	10.8013			N/A
5/10/2019	EURSEK	3:30:00 PM	10.8049	10.8074			N/A
5/10/2019	EURSEK.fx	9:30:00 AM	10.83436	10.83383			N/A
5/10/2019	EURSEK.fx	11:30:00 AM	10.80489	10.80603			N/A
5/10/2019	EURSEK.fx	1:30:00 PM	10.79856	10.79925			N/A
5/10/2019	EURSEK.fx	3:30:00 PM	10.80629	10.80676			N/A
5/10/2019	EURSGD	9:30:00 AM	1.5295	1.5302			N/A
5/10/2019	EURSGD	11:30:00 AM	1.529	1.5292			N/A
5/10/2019	EURSGD	1:30:00 PM	1.5293	1.5301			N/A
5/10/2019	EURSGD	3:30:00 PM	1.5307	1.5306			N/A
5/10/2019	EURSGD.fx	9:30:00 AM	1.52986	1.52979			N/A
5/10/2019	EURSGD.fx	11:30:00 AM	1.52933	1.5288			N/A
5/10/2019	EURSGD.fx	1:30:00 PM	1.52978	1.52974			N/A
5/10/2019	EURSGD.fx	3:30:00 PM	1.53098	1.53025			N/A
5/10/2019	EURUSD	9:30:00 AM	1.12266	1.12261			N/A
5/10/2019	EURUSD	11:30:00 AM	1.12234	1.12197			N/A
5/10/2019	EURUSD	1:30:00 PM	1.12266	1.12265		10	N/A
5/10/2019	EURUSD	3:30:00 PM	1.12364	1.12263		10	N/A
5/10/2019	EURUSD.fx	9:30:00 AM	1.12286	1.1227			N/A
5/10/2019	EURUSD.fx	11:30:00 AM	1.12254	1.12207			N/A
5/10/2019	EURUSD.fx	1:30:00 PM	1.12288	1.12274			N/A
5/10/2019	EURUSD.fx	3:30:00 PM	1.12382	1.12277			N/A
5/10/2019	EURZAR	9:30:00 AM	16.06	16.0648			N/A
5/10/2019	EURZAR	11:30:00 AM	15.9918	15.9984			N/A
5/10/2019	EURZAR	1:30:00 PM	15.9523	15.9678			N/A
5/10/2019	EURZAR	3:30:00 PM	15.9818	15.9828			N/A
5/10/2019	EURZAR.fx	9:30:00 AM	16.05941	16.06591			N/A
5/10/2019	EURZAR.fx	11:30:00 AM	15.99092	15.9989			N/A

5/10/2019	EURZAR.fx	1:30:00 PM	15.95168	15.96818			N/A
5/10/2019	EURZAR.fx	3:30:00 PM	15.98018	15.98752			N/A
5/10/2019	GBPAUD	9:30:00 AM	1.85898	1.85961			N/A
5/10/2019	GBPAUD	11:30:00 AM	1.85935	1.85839			N/A
5/10/2019	GBPAUD	1:30:00 PM	1.85956	1.86015			N/A
5/10/2019	GBPAUD	3:30:00 PM	1.8601	1.85911			N/A
5/10/2019	GBPAUD.fx	9:30:00 AM	1.85936	1.85919			N/A
5/10/2019	GBPAUD.fx	11:30:00 AM	1.85959	1.858			N/A
5/10/2019	GBPAUD.fx	1:30:00 PM	1.85997	1.85974			N/A
5/10/2019	GBPAUD.fx	3:30:00 PM	1.8602	1.85871			N/A
5/10/2019	GBPCAD	9:30:00 AM	1.75144	1.75196			N/A
5/10/2019	GBPCAD	11:30:00 AM	1.7514	1.75039			N/A
5/10/2019	GBPCAD	1:30:00 PM	1.7503	1.75099			N/A
5/10/2019	GBPCAD	3:30:00 PM	1.7522	1.74541			N/A
5/10/2019	GBPCAD.fx	9:30:00 AM	1.75185	1.75157			N/A
5/10/2019	GBPCAD.fx	11:30:00 AM	1.75168	1.75002			N/A
5/10/2019	GBPCAD.fx	1:30:00 PM	1.7507	1.7506			N/A
5/10/2019	GBPCAD.fx	3:30:00 PM	1.75204	1.74504			N/A
5/10/2019	GBPCHF	9:30:00 AM	1.31952	1.31985			N/A
5/10/2019	GBPCHF	11:30:00 AM	1.32079	1.31998			N/A
5/10/2019	GBPCHF	1:30:00 PM	1.3199	1.32027			N/A
5/10/2019	GBPCHF	3:30:00 PM	1.31783	1.31748			N/A
5/10/2019	GBPCHF.fx	9:30:00 AM	1.31971	1.31964			N/A
5/10/2019	GBPCHF.fx	11:30:00 AM	1.32089	1.31978			N/A
5/10/2019	GBPCHF.fx	1:30:00 PM	1.32011	1.32006			N/A
5/10/2019	GBPCHF.fx	3:30:00 PM	1.31792	1.3173			N/A
5/10/2019	GBPCZK	9:30:00 AM	29.784	29.805			N/A
5/10/2019	GBPCZK	11:30:00 AM	29.788	29.784			N/A
5/10/2019	GBPCZK	1:30:00 PM	29.773	29.794			N/A
5/10/2019	GBPCZK	3:30:00 PM	29.792	29.803			N/A
5/10/2019	GBPDKK	9:30:00 AM	8.645	8.656			N/A
5/10/2019	GBPDKK	11:30:00 AM	8.654	8.657			N/A
5/10/2019	GBPDKK	1:30:00 PM	8.649	8.659			N/A
5/10/2019	GBPDKK	3:30:00 PM	8.653	8.658			N/A

5/10/2019	GBPDKK.fx	9:30:00 AM	8.6435	8.656			N/A
5/10/2019	GBPDKK.fx	11:30:00 AM	8.652	8.6578			N/A
5/10/2019	GBPDKK.fx	1:30:00 PM	8.6473	8.6598			N/A
5/10/2019	GBPDKK.fx	3:30:00 PM	8.6482	8.6586			N/A
5/10/2019	GBPHKD	9:30:00 AM	10.2039	10.2078			N/A
5/10/2019	GBPHKD	11:30:00 AM	10.2115	10.2053			N/A
5/10/2019	GBPHKD	1:30:00 PM	10.2093	10.213			N/A
5/10/2019	GBPHKD	3:30:00 PM	10.2144	10.2142			N/A
5/10/2019	GBPHUF	9:30:00 AM	375.25	375.66			N/A
5/10/2019	GBPHUF	11:30:00 AM	374.66	374.82			N/A
5/10/2019	GBPHUF	1:30:00 PM	374.42	374.86			N/A
5/10/2019	GBPHUF	3:30:00 PM	374.57	374.96			N/A
5/10/2019	GBPJPY	9:30:00 AM	142.751	142.788			N/A
5/10/2019	GBPJPY	11:30:00 AM	142.974	142.845			N/A
5/10/2019	GBPJPY	1:30:00 PM	142.93	142.952			N/A
5/10/2019	GBPJPY	3:30:00 PM	142.841	142.762			N/A
5/10/2019	GBPJPY.fx	9:30:00 AM	142.77	142.768			N/A
5/10/2019	GBPJPY.fx	11:30:00 AM	142.981	142.828			N/A
5/10/2019	GBPJPY.fx	1:30:00 PM	142.951	142.932			N/A
5/10/2019	GBPJPY.fx	3:30:00 PM	142.837	142.746			N/A
5/10/2019	GBPMXN	9:30:00 AM	25.0267	25.0291			N/A
5/10/2019	GBPMXN	11:30:00 AM	24.9847	24.963			N/A
5/10/2019	GBPMXN	1:30:00 PM	24.9228	24.9315			N/A
5/10/2019	GBPMXN	3:30:00 PM	24.9596	24.9451			N/A
5/10/2019	GBPNOK	9:30:00 AM	11.4077	11.4183			N/A
5/10/2019	GBPNOK	11:30:00 AM	11.3833	11.3834			N/A
5/10/2019	GBPNOK	1:30:00 PM	11.3671	11.3775			N/A
5/10/2019	GBPNOK	3:30:00 PM	11.3755	11.3795			N/A
5/10/2019	GBPNOK.fx	9:30:00 AM	11.41234	11.4134			N/A
5/10/2019	GBPNOK.fx	11:30:00 AM	11.38589	11.37836			N/A
5/10/2019	GBPNOK.fx	1:30:00 PM	11.37186	11.37283			N/A
5/10/2019	GBPNOK.fx	3:30:00 PM	11.37637	11.37462			N/A
5/10/2019	GBPNZD	9:30:00 AM	1.97324	1.97373			N/A
5/10/2019	GBPNZD	11:30:00 AM	1.97295	1.97165			N/A

5/10/2019	GBPNZD	1:30:00 PM	1.97266	1.9733			N/A
5/10/2019	GBPNZD	3:30:00 PM	1.97215	1.97116			N/A
5/10/2019	GBPNZD.fx	9:30:00 AM	1.97359	1.97337			N/A
5/10/2019	GBPNZD.fx	11:30:00 AM	1.97311	1.97129			N/A
5/10/2019	GBPNZD.fx	1:30:00 PM	1.97304	1.9729			N/A
5/10/2019	GBPNZD.fx	3:30:00 PM	1.97198	1.97101			N/A
5/10/2019	GBPPLN	9:30:00 AM	4.9806	4.9815			N/A
5/10/2019	GBPPLN	11:30:00 AM	4.9817	4.9795			N/A
5/10/2019	GBPPLN	1:30:00 PM	4.9809	4.9828			N/A
5/10/2019	GBPPLN	3:30:00 PM	4.9794	4.9791			N/A
5/10/2019	GBPPLN.fx	9:30:00 AM	4.97826	4.98402			N/A
5/10/2019	GBPPLN.fx	11:30:00 AM	4.97909	4.98155			N/A
5/10/2019	GBPPLN.fx	1:30:00 PM	4.97877	4.98496			N/A
5/10/2019	GBPPLN.fx	3:30:00 PM	4.97614	4.98155			N/A
5/10/2019	GBPSEK	9:30:00 AM	12.548	12.5561			N/A
5/10/2019	GBPSEK	11:30:00 AM	12.5279	12.5252			N/A
5/10/2019	GBPSEK	1:30:00 PM	12.5121	12.5219			N/A
5/10/2019	GBPSEK	3:30:00 PM	12.5254	12.529			N/A
5/10/2019	GBPSEK.fx	9:30:00 AM	12.54418	12.55998			N/A
5/10/2019	GBPSEK.fx	11:30:00 AM	12.52165	12.5289			N/A
5/10/2019	GBPSEK.fx	1:30:00 PM	12.50855	12.52547			N/A
5/10/2019	GBPSEK.fx	3:30:00 PM	12.51748	12.53341			N/A
5/10/2019	GBPSGD	9:30:00 AM	1.7722	1.7727			N/A
5/10/2019	GBPSGD	11:30:00 AM	1.7734	1.7722			N/A
5/10/2019	GBPSGD	1:30:00 PM	1.7729	1.7734			N/A
5/10/2019	GBPSGD	3:30:00 PM	1.7745	1.7744			N/A
5/10/2019	GBPSGD.fx	9:30:00 AM	1.77032	1.77442			N/A
5/10/2019	GBPSGD.fx	11:30:00 AM	1.77119	1.77399			N/A
5/10/2019	GBPSGD.fx	1:30:00 PM	1.77104	1.77523			N/A
5/10/2019	GBPSGD.fx	3:30:00 PM	1.77223	1.77621			N/A
5/10/2019	GBPUSD	9:30:00 AM	1.30084	1.30069			N/A
5/10/2019	GBPUSD	11:30:00 AM	1.30203	1.30043	3200	3200	N/A
5/10/2019	GBPUSD	1:30:00 PM	1.30153	1.3014			N/A
5/10/2019	GBPUSD	3:30:00 PM	1.30252	1.3016			N/A

5/10/2019	GBPUSD.fx	9:30:00 AM	1.3009	1.3006			N/A
5/10/2019	GBPUSD.fx	11:30:00 AM	1.30205	1.3004			N/A
5/10/2019	GBPUSD.fx	1:30:00 PM	1.30159	1.30135			N/A
5/10/2019	GBPUSD.fx	3:30:00 PM	1.30256	1.30171			N/A
5/10/2019	GBPZAR	9:30:00 AM	18.6034	18.614			N/A
5/10/2019	GBPZAR	11:30:00 AM	18.5418	18.5451			N/A
5/10/2019	GBPZAR	1:30:00 PM	18.4863	18.5108			N/A
5/10/2019	GBPZAR	3:30:00 PM	18.5243	18.5317			N/A
5/10/2019	GBPZAR.fx	9:30:00 AM	18.6096	18.6085			N/A
5/10/2019	GBPZAR.fx	11:30:00 AM	18.5489	18.5377			N/A
5/10/2019	GBPZAR.fx	1:30:00 PM	18.4937	18.5033			N/A
5/10/2019	GBPZAR.fx	3:30:00 PM	18.5221	18.5275			N/A
5/10/2019	GOLD	9:30:00 AM	1284.56	1284.76			N/A
5/10/2019	GOLD	11:30:00 AM	1284.8	1284.85			N/A
5/10/2019	GOLD	1:30:00 PM	1285.61	1285.93			N/A
5/10/2019	GOLD	3:30:00 PM	1287.94	1286.15			N/A
5/10/2019	HKDJPY	9:30:00 AM	13.98	13.99			N/A
5/10/2019	HKDJPY	11:30:00 AM	14	14			N/A
5/10/2019	HKDJPY	1:30:00 PM	13.99	14			N/A
5/10/2019	HKDJPY	3:30:00 PM	13.97	13.98			N/A
5/10/2019	HKDJPY.fx	9:30:00 AM	13.981	13.985			N/A
5/10/2019	HKDJPY.fx	11:30:00 AM	13.994	13.997			N/A
5/10/2019	HKDJPY.fx	1:30:00 PM	13.989	13.997			N/A
5/10/2019	HKDJPY.fx	3:30:00 PM	13.975	13.972			N/A
5/10/2019	HUFJPY	9:30:00 AM	0.3803	0.3806			N/A
5/10/2019	HUFJPY	11:30:00 AM	0.3811	0.3814			N/A
5/10/2019	HUFJPY	1:30:00 PM	0.3816	0.382			N/A
5/10/2019	HUFJPY	3:30:00 PM	0.3811	0.3814			N/A
5/10/2019	JP225.i	9:30:00 AM	21328.97	21338.97			N/A
5/10/2019	JP225.i	11:30:00 AM	21338.97	21330.64			N/A
5/10/2019	JP225.i	1:30:00 PM	21353.97	21366.47			N/A
5/10/2019	JP225.i	3:30:00 PM	21242.92	21213.97			N/A
5/10/2019	MXNJPY	9:30:00 AM	5.7	5.71			N/A
5/10/2019	MXNJPY	11:30:00 AM	5.72	5.73			N/A

5/10/2019	MXNJPY	1:30:00 PM					N/A
5/10/2019	MXNJPY	3:30:00 PM	5.72	5.72			N/A
5/10/2019	NASDAQ.i	9:30:00 AM					N/A
5/10/2019	NASDAQ.i	11:30:00 AM					N/A
5/10/2019	NASDAQ.i	1:30:00 PM					N/A
5/10/2019	NASDAQ.i	3:30:00 PM					N/A
5/10/2019	NOKJPY	9:30:00 AM	12.5	12.53			N/A
5/10/2019	NOKJPY	11:30:00 AM	12.55	12.57			N/A
5/10/2019	NOKJPY	1:30:00 PM	12.56	12.59			N/A
5/10/2019	NOKJPY	3:30:00 PM	12.54	12.57			N/A
5/10/2019	NOKJPY.fx	9:30:00 AM	12.506	12.513			N/A
5/10/2019	NOKJPY.fx	11:30:00 AM	12.555	12.555			N/A
5/10/2019	NOKJPY.fx	1:30:00 PM	12.566	12.573			N/A
5/10/2019	NOKJPY.fx	3:30:00 PM	12.552	12.554			N/A
5/10/2019	NZDCAD	9:30:00 AM	0.88726	0.888			N/A
5/10/2019	NZDCAD	11:30:00 AM	0.88746	0.888			N/A
5/10/2019	NZDCAD	1:30:00 PM	0.88696	0.88766			N/A
5/10/2019	NZDCAD	3:30:00 PM	0.88804	0.88578			N/A
5/10/2019	NZDCAD.fx	9:30:00 AM	0.88759	0.88768			N/A
5/10/2019	NZDCAD.fx	11:30:00 AM	0.88777	0.88768			N/A
5/10/2019	NZDCAD.fx	1:30:00 PM	0.8873	0.88732			N/A
5/10/2019	NZDCAD.fx	3:30:00 PM	0.88798	0.88554			N/A
5/10/2019	NZDCHF	9:30:00 AM	0.66833	0.66904			N/A
5/10/2019	NZDCHF	11:30:00 AM	0.66909	0.6698			N/A
5/10/2019	NZDCHF	1:30:00 PM	0.66871	0.66943			N/A
5/10/2019	NZDCHF	3:30:00 PM	0.66842	0.66831			N/A
5/10/2019	NZDCHF.fx	9:30:00 AM	0.66866	0.66869			N/A
5/10/2019	NZDCHF.fx	11:30:00 AM	0.66942	0.66947			N/A
5/10/2019	NZDCHF.fx	1:30:00 PM	0.66905	0.66908			N/A
5/10/2019	NZDCHF.fx	3:30:00 PM	0.66871	0.66798			N/A
5/10/2019	NZDCZK	9:30:00 AM	15.091	15.102			N/A
5/10/2019	NZDCZK	11:30:00 AM	15.101	15.107			N/A
5/10/2019	NZDCZK	1:30:00 PM	15.09	15.102			N/A
5/10/2019	NZDCZK	3:30:00 PM	15.115	15.107			N/A

5/10/2019	NZDDKK	9:30:00 AM					N/A
5/10/2019	NZDDKK	11:30:00 AM	4.385	4.389			N/A
5/10/2019	NZDDKK	1:30:00 PM	4.384	4.387			N/A
5/10/2019	NZDDKK	3:30:00 PM	4.387	4.387			N/A
5/10/2019	NZDHKD	9:30:00 AM	5.1696	5.1725			N/A
5/10/2019	NZDHKD	11:30:00 AM	5.1739	5.1763			N/A
5/10/2019	NZDHKD	1:30:00 PM	5.1737	5.1763			N/A
5/10/2019	NZDHKD	3:30:00 PM	5.1824	5.1776			N/A
5/10/2019	NZDHUF	9:30:00 AM	190.08	190.36			N/A
5/10/2019	NZDHUF	11:30:00 AM	189.88	190.14			N/A
5/10/2019	NZDHUF	1:30:00 PM	189.74	190.02			N/A
5/10/2019	NZDHUF	3:30:00 PM	190	190.08			N/A
5/10/2019	NZDJPY	9:30:00 AM	72.313	72.374			N/A
5/10/2019	NZDJPY	11:30:00 AM	72.452	72.485			N/A
5/10/2019	NZDJPY	1:30:00 PM	72.414	72.48			N/A
5/10/2019	NZDJPY	3:30:00 PM	72.444	72.42			N/A
5/10/2019	NZDJPY.fx	9:30:00 AM	72.344	72.34			N/A
5/10/2019	NZDJPY.fx	11:30:00 AM	72.483	72.453			N/A
5/10/2019	NZDJPY.fx	1:30:00 PM	72.446	72.447			N/A
5/10/2019	NZDJPY.fx	3:30:00 PM	72.47	72.387			N/A
5/10/2019	NZDMXN	9:30:00 AM	12.6798	12.682			N/A
5/10/2019	NZDMXN	11:30:00 AM	12.6611	12.6614			N/A
5/10/2019	NZDMXN	1:30:00 PM	12.6321	12.6331			N/A
5/10/2019	NZDMXN	3:30:00 PM	12.6601	12.6491			N/A
5/10/2019	NZDNOK	9:30:00 AM	5.7791	5.7829			N/A
5/10/2019	NZDNOK	11:30:00 AM	5.7658	5.7686			N/A
5/10/2019	NZDNOK	1:30:00 PM	5.7598	5.7634			N/A
5/10/2019	NZDNOK	3:30:00 PM	5.7673	5.7665			N/A
5/10/2019	NZDPLN	9:30:00 AM	2.5221	2.5235			N/A
5/10/2019	NZDPLN	11:30:00 AM	2.5234	2.524			N/A
5/10/2019	NZDPLN	1:30:00 PM	2.5238	2.5249			N/A
5/10/2019	NZDPLN	3:30:00 PM	2.5231	2.5227			N/A
5/10/2019	NZDSEK	9:30:00 AM	6.355	6.3614			N/A
5/10/2019	NZDSEK	11:30:00 AM	6.3455	6.3512			N/A

5/10/2019	NZDSEK	1:30:00 PM	6.3389	6.3451			N/A
5/10/2019	NZDSEK	3:30:00 PM	6.3517	6.3491			N/A
5/10/2019	NZDSGD	9:30:00 AM	0.8978	0.8985			N/A
5/10/2019	NZDSGD	11:30:00 AM	0.8986	0.8991			N/A
5/10/2019	NZDSGD	1:30:00 PM	0.8984	0.8991			N/A
5/10/2019	NZDSGD	3:30:00 PM	0.9002	0.8997			N/A
5/10/2019	NZDSGD.fx	9:30:00 AM	0.89778	0.8984			N/A
5/10/2019	NZDSGD.fx	11:30:00 AM	0.8986	0.89902			N/A
5/10/2019	NZDSGD.fx	1:30:00 PM	0.89841	0.899			N/A
5/10/2019	NZDSGD.fx	3:30:00 PM	0.90001	0.89985			N/A
5/10/2019	NZDUSD	9:30:00 AM	0.65902	0.65915			N/A
5/10/2019	NZDUSD	11:30:00 AM	0.65967	0.65966			N/A
5/10/2019	NZDUSD	1:30:00 PM	0.65952	0.65961			N/A
5/10/2019	NZDUSD	3:30:00 PM	0.66082	0.65985			N/A
5/10/2019	NZDUSD.fx	9:30:00 AM	0.65909	0.65916			N/A
5/10/2019	NZDUSD.fx	11:30:00 AM	0.65974	0.65968			N/A
5/10/2019	NZDUSD.fx	1:30:00 PM	0.65959	0.65962			N/A
5/10/2019	NZDUSD.fx	3:30:00 PM	0.66088	0.65996			N/A
5/10/2019	NZDZAR	9:30:00 AM	9.4203	9.4293			N/A
5/10/2019	NZDZAR	11:30:00 AM	9.3885	9.4003			N/A
5/10/2019	NZDZAR	1:30:00 PM	9.3646	9.3803			N/A
5/10/2019	NZDZAR	3:30:00 PM	9.3821	9.3938			N/A
5/10/2019	SEKJPY	9:30:00 AM	11.37	11.38			N/A
5/10/2019	SEKJPY	11:30:00 AM	11.41	11.42			N/A
5/10/2019	SEKJPY	1:30:00 PM	11.42	11.43			N/A
5/10/2019	SEKJPY	3:30:00 PM	11.4	11.41			N/A
5/10/2019	SEKJPY.fx	9:30:00 AM	11.365	11.382			N/A
5/10/2019	SEKJPY.fx	11:30:00 AM	11.404	11.414			N/A
5/10/2019	SEKJPY.fx	1:30:00 PM	11.41	11.428			N/A
5/10/2019	SEKJPY.fx	3:30:00 PM	11.392	11.407			N/A
5/10/2019	SGDJPY	9:30:00 AM	80.53	80.55			N/A
5/10/2019	SGDJPY	11:30:00 AM	80.6	80.61			N/A
5/10/2019	SGDJPY	1:30:00 PM	80.6	80.61			N/A
5/10/2019	SGDJPY	3:30:00 PM	80.48	80.46			N/A

5/10/2019	SILVER	9:30:00 AM	14.59	14.97			N/A
5/10/2019	SILVER	11:30:00 AM	14.6	14.97			N/A
5/10/2019	SILVER	1:30:00 PM	14.59	14.97			N/A
5/10/2019	SILVER	3:30:00 PM	14.6	14.96			N/A
5/10/2019	SPX500.i	9:30:00 AM	2868.91	2869.21			N/A
5/10/2019	SPX500.i	11:30:00 AM	2867.41	2866.96			N/A
5/10/2019	SPX500.i	1:30:00 PM	2867.41	2867.46			N/A
5/10/2019	SPX500.i	3:30:00 PM	2855	2849.06			N/A
5/10/2019	UK100.i	9:30:00 AM	7260.21	7260.71			N/A
5/10/2019	UK100.i	11:30:00 AM	7254.21	7249.8			N/A
5/10/2019	UK100.i	1:30:00 PM	7243.3	7243.46			N/A
5/10/2019	UK100.i	3:30:00 PM	7229.4	7221			N/A
5/10/2019	USDCAD	9:30:00 AM	1.34662	1.34674			N/A
5/10/2019	USDCAD	11:30:00 AM	1.34575	1.34566			N/A
5/10/2019	USDCAD	1:30:00 PM	1.3452	1.34518			N/A
5/10/2019	USDCAD	3:30:00 PM	1.34675	1.34017	1000		N/A
5/10/2019	USDCAD.fx	9:30:00 AM	1.34664	1.34671			N/A
5/10/2019	USDCAD.fx	11:30:00 AM	1.34577	1.34563			N/A
5/10/2019	USDCAD.fx	1:30:00 PM	1.34524	1.34514			N/A
5/10/2019	USDCAD.fx	3:30:00 PM	1.34657	1.34016			N/A
5/10/2019	USDCHF	9:30:00 AM	1.01448	1.01455			N/A
5/10/2019	USDCHF	11:30:00 AM	1.01477	1.01472			N/A
5/10/2019	USDCHF	1:30:00 PM	1.0143	1.01435			N/A
5/10/2019	USDCHF	3:30:00 PM	1.01224	1.01168			N/A
5/10/2019	USDCHF.fx	9:30:00 AM	1.01452	1.0145			N/A
5/10/2019	USDCHF.fx	11:30:00 AM	1.0148	1.01466			N/A
5/10/2019	USDCHF.fx	1:30:00 PM	1.01435	1.01429			N/A
5/10/2019	USDCHF.fx	3:30:00 PM	1.01219	1.01163			N/A
5/10/2019	USDCZK	9:30:00 AM	22.913	22.933			N/A
5/10/2019	USDCZK	11:30:00 AM	22.912	22.921			N/A
5/10/2019	USDCZK	1:30:00 PM	22.894	22.915			N/A
5/10/2019	USDCZK	3:30:00 PM	22.903	22.905			N/A
5/10/2019	USDCZK.fx	9:30:00 AM	22.922	22.9241			N/A
5/10/2019	USDCZK.fx	11:30:00 AM	22.9211	22.9123			N/A

5/10/2019	USDCZK.fx	1:30:00 PM	22.9018	22.9062			N/A
5/10/2019	USDCZK.fx	3:30:00 PM	22.9068	22.8967			N/A
5/10/2019	USDDKK	9:30:00 AM	6.6486	6.6518			N/A
5/10/2019	USDDKK	11:30:00 AM	6.6524	6.6537			N/A
5/10/2019	USDDKK	1:30:00 PM	6.6483	6.6517			N/A
5/10/2019	USDDKK	3:30:00 PM	6.6483	6.6461			N/A
5/10/2019	USDDKK.fx	9:30:00 AM	6.6492	6.64982			N/A
5/10/2019	USDDKK.fx	11:30:00 AM	6.65292	6.6517			N/A
5/10/2019	USDDKK.fx	1:30:00 PM	6.6489	6.64948			N/A
5/10/2019	USDDKK.fx	3:30:00 PM	6.64816	6.6439			N/A
5/10/2019	USDHKD	9:30:00 AM	7.8477	7.848			N/A
5/10/2019	USDHKD	11:30:00 AM	7.8476	7.848			N/A
5/10/2019	USDHKD	1:30:00 PM	7.8478	7.8482			N/A
5/10/2019	USDHKD	3:30:00 PM	7.8479	7.8482			N/A
5/10/2019	USDHKD.fx	9:30:00 AM	7.84767	7.84818			N/A
5/10/2019	USDHKD.fx	11:30:00 AM	7.84758	7.84807			N/A
5/10/2019	USDHKD.fx	1:30:00 PM	7.84776	7.84828			N/A
5/10/2019	USDHKD.fx	3:30:00 PM	7.84784	7.84832			N/A
5/10/2019	USDHUF	9:30:00 AM	288.56	288.97			N/A
5/10/2019	USDHUF	11:30:00 AM	288.13	288.49			N/A
5/10/2019	USDHUF	1:30:00 PM	287.8	288.23			N/A
5/10/2019	USDHUF	3:30:00 PM	287.93	288.16			N/A
5/10/2019	USDHUF.fx	9:30:00 AM	288.76	288.757			N/A
5/10/2019	USDHUF.fx	11:30:00 AM	288.332	288.288			N/A
5/10/2019	USDHUF.fx	1:30:00 PM	288.005	288.025			N/A
5/10/2019	USDHUF.fx	3:30:00 PM	288.092	287.976			N/A
5/10/2019	USDINR	9:30:00 AM	64.91	74.88			N/A
5/10/2019	USDINR	11:30:00 AM	64.79	74.77			N/A
5/10/2019	USDINR	1:30:00 PM					N/A
5/10/2019	USDINR	3:30:00 PM					N/A
5/10/2019	USDJPY	9:30:00 AM	109.763	109.747			N/A
5/10/2019	USDJPY	11:30:00 AM	109.86	109.838			N/A
5/10/2019	USDJPY	1:30:00 PM	109.828	109.839			N/A
5/10/2019	USDJPY	3:30:00 PM	109.733	109.643			N/A

5/10/2019	USDJPY.fx	9:30:00 AM	109.769	109.74			N/A
5/10/2019	USDJPY.fx	11:30:00 AM	109.864	109.83			N/A
5/10/2019	USDJPY.fx	1:30:00 PM	109.833	109.831			N/A
5/10/2019	USDJPY.fx	3:30:00 PM	109.731	109.638			N/A
5/10/2019	USDMXN	9:30:00 AM	19.246	19.248			N/A
5/10/2019	USDMXN	11:30:00 AM	19.201	19.203			N/A
5/10/2019	USDMXN	1:30:00 PM	19.157	19.158			N/A
5/10/2019	USDMXN	3:30:00 PM	19.2	19.162			N/A
5/10/2019	USDMXN.f	9:30:00 AM	19.249	19.2447			N/A
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5/10/2019	USDMXN.f	1:30:00 PM	19.1614	19.1539			N/A
5/10/2019	USDMXN.f	3:30:00 PM	19.2031	19.1592			N/A
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5/10/2019	USDNOK.fx	3:30:00 PM	8.73885	8.73275			N/A
5/10/2019	USDPLN	9:30:00 AM	3.8285	3.8295			N/A
5/10/2019	USDPLN	11:30:00 AM	3.8282	3.828			N/A
5/10/2019	USDPLN	1:30:00 PM	3.8276	3.8285			N/A
5/10/2019	USDPLN	3:30:00 PM	3.8249	3.823			N/A
5/10/2019	USDPLN.fx	9:30:00 AM	3.82756	3.83041			N/A
5/10/2019	USDPLN.fx	11:30:00 AM	3.82738	3.82872			N/A
5/10/2019	USDPLN.fx	1:30:00 PM	3.82678	3.82922			N/A
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5/10/2019	USDRUB	11:30:00 AM	64.986	65.369			N/A
5/10/2019	USDRUB	1:30:00 PM	64.977	65.359			N/A
5/10/2019	USDRUB	3:30:00 PM	65.132	65.462			N/A
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5/10/2019	USDSEK	11:30:00 AM	9.6272	9.6276			N/A

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5/10/2019	USDSEK	3:30:00 PM	9.6212	9.6172			N/A
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5/10/2019	USDSEK.fx	11:30:00 AM	9.62975	9.6258			N/A
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5/10/2019	USDSGD.fx	9:30:00 AM	1.36233	1.36274			N/A
5/10/2019	USDSGD.fx	11:30:00 AM	1.36219	1.36262			N/A
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5/10/2019	USDSGD.fx	3:30:00 PM	1.36253	1.36249			N/A
5/10/2019	USDZAR	9:30:00 AM	14.3042	14.3105			N/A
5/10/2019	USDZAR	11:30:00 AM	14.2448	14.2572			N/A
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5/10/2019	XAUUSD	3:30:00 PM	1287.93	1286.15			N/A
5/10/2019	ZARJPY	9:30:00 AM	7.66	7.67			N/A
5/10/2019	ZARJPY	11:30:00 AM	7.69	7.71			N/A
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5/13/2019	AUDCAD.fx	9:30:00 AM	0.93745	0.93731			N/A
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5/13/2019	AUDCAD.fx	1:30:00 PM	0.9368	0.9368			N/A
5/13/2019	AUDCAD.fx	3:30:00 PM	0.93686	0.93663			N/A
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5/13/2019	AUDCHF.fx	3:30:00 PM	0.70118	0.70108			N/A
5/13/2019	AUDCZK	9:30:00 AM	15.962	15.976			N/A
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5/13/2019	AUDCZK	3:30:00 PM	15.953	15.966			N/A
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5/13/2019	AUDDKK	3:30:00 PM	4.6244	4.6283			N/A
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5/13/2019	AUDHKD	11:30:00 AM	5.4703	5.4742			N/A
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5/13/2019	AUDHUF	9:30:00 AM	200.73	200.9			N/A
5/13/2019	AUDHUF	11:30:00 AM	200.97	201.12			N/A
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5/13/2019	AUDJPY.fx	9:30:00 AM	76.532	76.511			N/A
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5/13/2019	AUDMXN	11:30:00 AM	13.388	13.3976			N/A
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5/13/2019	AUDNOK	1:30:00 PM	6.0935	6.0979			N/A
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5/13/2019	AUDNOK.fx	9:30:00 AM	6.094	6.0944			N/A
5/13/2019	AUDNOK.fx	11:30:00 AM	6.0982	6.0989			N/A
5/13/2019	AUDNOK.fx	1:30:00 PM	6.0951	6.0962			N/A
5/13/2019	AUDNOK.fx	3:30:00 PM	6.0815	6.0826			N/A
5/13/2019	AUDNZD	9:30:00 AM	1.05968	1.06057			N/A
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5/13/2019	AUDPLN	1:30:00 PM	2.6702	2.6733			N/A
5/13/2019	AUDPLN	3:30:00 PM	2.6657	2.668			N/A
5/13/2019	AUDSEK	9:30:00 AM	6.7196	6.722			N/A
5/13/2019	AUDSEK	11:30:00 AM	6.7256	6.728			N/A

5/13/2019	AUDSEK	1:30:00 PM	6.724	6.7261			N/A
5/13/2019	AUDSEK	3:30:00 PM	6.7113	6.7129			N/A
5/13/2019	AUDSEK.fx	9:30:00 AM	6.7153	6.7263			N/A
5/13/2019	AUDSEK.fx	11:30:00 AM	6.7209	6.7325			N/A
5/13/2019	AUDSEK.fx	1:30:00 PM	6.7195	6.7306			N/A
5/13/2019	AUDSEK.fx	3:30:00 PM	6.7068	6.7172			N/A
5/13/2019	AUDSGD	9:30:00 AM	0.9538	0.954			N/A
5/13/2019	AUDSGD	11:30:00 AM	0.9543	0.9546			N/A
5/13/2019	AUDSGD	1:30:00 PM	0.9543	0.9545			N/A
5/13/2019	AUDSGD	3:30:00 PM	0.9538	0.9539			N/A
5/13/2019	AUDSGD.fx	9:30:00 AM	0.95401	0.95387			N/A
5/13/2019	AUDSGD.fx	11:30:00 AM	0.95434	0.95445			N/A
5/13/2019	AUDSGD.fx	1:30:00 PM	0.95434	0.95433			N/A
5/13/2019	AUDSGD.fx	3:30:00 PM	0.95384	0.95375			N/A
5/13/2019	AUDUSD	9:30:00 AM	0.6974	0.69731			N/A
5/13/2019	AUDUSD	11:30:00 AM	0.69732	0.69744			N/A
5/13/2019	AUDUSD	1:30:00 PM	0.69775	0.69778			N/A
5/13/2019	AUDUSD	3:30:00 PM	0.69712	0.69703			N/A
5/13/2019	AUDUSD.fx	9:30:00 AM	0.69745	0.69725			N/A
5/13/2019	AUDUSD.fx	11:30:00 AM	0.69737	0.69738			N/A
5/13/2019	AUDUSD.fx	1:30:00 PM	0.6978	0.69772			N/A
5/13/2019	AUDUSD.fx	3:30:00 PM	0.69717	0.69698			N/A
5/13/2019	AUDZAR	9:30:00 AM	9.9212	9.9307			N/A
5/13/2019	AUDZAR	11:30:00 AM	9.951	9.9624			N/A
5/13/2019	AUDZAR	1:30:00 PM	9.9497	9.9611			N/A
5/13/2019	AUDZAR	3:30:00 PM	9.9623	9.9712			N/A
5/13/2019	AUS200.i	9:30:00 AM					N/A
5/13/2019	AUS200.i	11:30:00 AM	6296.63	6299.13			N/A
5/13/2019	AUS200.i	1:30:00 PM	6293.63	6297.13			N/A
5/13/2019	AUS200.i	3:30:00 PM	6280.63	6280.13			N/A
5/13/2019	BCHUSD	9:30:00 AM	370.61	371.98			N/A
5/13/2019	BCHUSD	11:30:00 AM	363.18	364.53			N/A
5/13/2019	BCHUSD	1:30:00 PM	364.47	366.47			N/A
5/13/2019	BCHUSD	3:30:00 PM	376.41	377.62			N/A

5/13/2019	CADCHF	9:30:00 AM	0.75135	0.75197			N/A
5/13/2019	CADCHF	11:30:00 AM	0.75104	0.75173			N/A
5/13/2019	CADCHF	1:30:00 PM	0.75071	0.75137			N/A
5/13/2019	CADCHF	3:30:00 PM	0.74817	0.74862			N/A
5/13/2019	CADCHF.fx	9:30:00 AM	0.75169	0.75162			N/A
5/13/2019	CADCHF.fx	11:30:00 AM	0.75139	0.75138			N/A
5/13/2019	CADCHF.fx	1:30:00 PM	0.75106	0.75101			N/A
5/13/2019	CADCHF.fx	3:30:00 PM	0.74851	0.74827			N/A
5/13/2019	CADCZK	9:30:00 AM	17.03	17.045			N/A
5/13/2019	CADCZK	11:30:00 AM	17.058	17.075			N/A
5/13/2019	CADCZK	1:30:00 PM	17.061	17.078			N/A
5/13/2019	CADCZK	3:30:00 PM	17.035	17.048			N/A
5/13/2019	CADDDKK	9:30:00 AM	4.943	4.946			N/A
5/13/2019	CADDDKK	11:30:00 AM					N/A
5/13/2019	CADDDKK	1:30:00 PM	4.948	4.951			N/A
5/13/2019	CADDDKK	3:30:00 PM	4.938	4.94			N/A
5/13/2019	CADHKD	9:30:00 AM	5.8361	5.8401			N/A
5/13/2019	CADHKD	11:30:00 AM	5.8402	5.8438			N/A
5/13/2019	CADHKD	1:30:00 PM	5.8435	5.8469			N/A
5/13/2019	CADHKD	3:30:00 PM	5.8381	5.8418			N/A
5/13/2019	CADHUF	9:30:00 AM	214.19	214.33			N/A
5/13/2019	CADHUF	11:30:00 AM	214.57	214.69			N/A
5/13/2019	CADHUF	1:30:00 PM	214.7	214.84			N/A
5/13/2019	CADHUF	3:30:00 PM	213.9	213.89			N/A
5/13/2019	CADJPY	9:30:00 AM	81.599	81.665			N/A
5/13/2019	CADJPY	11:30:00 AM	81.628	81.674			N/A
5/13/2019	CADJPY	1:30:00 PM	81.659	81.714			N/A
5/13/2019	CADJPY	3:30:00 PM	81.279	81.308			N/A
5/13/2019	CADJPY.fx	9:30:00 AM	81.632	81.632			N/A
5/13/2019	CADJPY.fx	11:30:00 AM	81.66	81.639			N/A
5/13/2019	CADJPY.fx	1:30:00 PM	81.694	81.678			N/A
5/13/2019	CADJPY.fx	3:30:00 PM	81.312	81.273			N/A
5/13/2019	CADMXN	9:30:00 AM	14.263	14.2691			N/A
5/13/2019	CADMXN	11:30:00 AM	14.2931	14.3036			N/A

5/13/2019	CADMXN	1:30:00 PM	14.2945	14.3055			N/A
5/13/2019	CADMXN	3:30:00 PM	14.3013	14.3108			N/A
5/13/2019	CADNOK	9:30:00 AM	6.498	6.5027			N/A
5/13/2019	CADNOK	11:30:00 AM	6.5069	6.511			N/A
5/13/2019	CADNOK	1:30:00 PM	6.5034	6.5078			N/A
5/13/2019	CADNOK	3:30:00 PM	6.4901	6.4928			N/A
5/13/2019	CADPLN	9:30:00 AM	2.8472	2.8491			N/A
5/13/2019	CADPLN	11:30:00 AM	2.851	2.853			N/A
5/13/2019	CADPLN	1:30:00 PM	2.8508	2.8526			N/A
5/13/2019	CADPLN	3:30:00 PM	2.8462	2.8479			N/A
5/13/2019	CADSEK	9:30:00 AM	7.1664	7.1703			N/A
5/13/2019	CADSEK	11:30:00 AM	7.1775	7.1814			N/A
5/13/2019	CADSEK	1:30:00 PM	7.1764	7.1788			N/A
5/13/2019	CADSEK	3:30:00 PM	7.1649	7.1675			N/A
5/13/2019	CADSGD	9:30:00 AM	1.0168	1.0171			N/A
5/13/2019	CADSGD	11:30:00 AM	1.0179	1.0182			N/A
5/13/2019	CADSGD	1:30:00 PM	1.018	1.0183			N/A
5/13/2019	CADSGD	3:30:00 PM	1.0174	1.0177			N/A
5/13/2019	CADZAR	9:30:00 AM	10.5852	10.5972			N/A
5/13/2019	CADZAR	11:30:00 AM	10.6246	10.6374			N/A
5/13/2019	CADZAR	1:30:00 PM	10.6225	10.6345			N/A
5/13/2019	CADZAR	3:30:00 PM	10.6365	10.6476			N/A
5/13/2019	CHFCZK	9:30:00 AM	22.661	22.675			N/A
5/13/2019	CHFCZK	11:30:00 AM	22.713	22.722			N/A
5/13/2019	CHFCZK	1:30:00 PM	22.722	22.738			N/A
5/13/2019	CHFCZK	3:30:00 PM	22.762	22.773			N/A
5/13/2019	CHFDKK	9:30:00 AM	6.576	6.578			N/A
5/13/2019	CHFDKK	11:30:00 AM	6.584	6.587			N/A
5/13/2019	CHFDKK	1:30:00 PM					N/A
5/13/2019	CHFDKK	3:30:00 PM	6.598	6.6			N/A
5/13/2019	CHFDKK.fx	9:30:00 AM	6.5744	6.5797			N/A
5/13/2019	CHFDKK.fx	11:30:00 AM	6.5825	6.5879			N/A
5/13/2019	CHFDKK.fx	1:30:00 PM	6.5859	6.5921			N/A
5/13/2019	CHFDKK.fx	3:30:00 PM	6.5965	6.601			N/A

5/13/2019	CHFHKD	9:30:00 AM	7.7652	7.7681			N/A
5/13/2019	CHFHKD	11:30:00 AM	7.7742	7.7775			N/A
5/13/2019	CHFHKD	1:30:00 PM	7.7814	7.7853			N/A
5/13/2019	CHFHKD	3:30:00 PM	7.802	7.8043			N/A
5/13/2019	CHFHUF	9:30:00 AM	284.88	285.23			N/A
5/13/2019	CHFHUF	11:30:00 AM	285.54	285.81			N/A
5/13/2019	CHFHUF	1:30:00 PM	285.8	286.17			N/A
5/13/2019	CHFHUF	3:30:00 PM	285.73	285.83			N/A
5/13/2019	CHFJPY	9:30:00 AM	108.574	108.624			N/A
5/13/2019	CHFJPY	11:30:00 AM	108.646	108.681			N/A
5/13/2019	CHFJPY	1:30:00 PM	108.732	108.797			N/A
5/13/2019	CHFJPY	3:30:00 PM	108.601	108.638			N/A
5/13/2019	CHFJPY.fx	9:30:00 AM	108.607	108.59			N/A
5/13/2019	CHFJPY.fx	11:30:00 AM	108.679	108.647			N/A
5/13/2019	CHFJPY.fx	1:30:00 PM	108.766	108.763			N/A
5/13/2019	CHFJPY.fx	3:30:00 PM	108.633	108.603			N/A
5/13/2019	CHFMXN	9:30:00 AM	18.977	18.9844			N/A
5/13/2019	CHFMXN	11:30:00 AM	19.0237	19.0376			N/A
5/13/2019	CHFMXN	1:30:00 PM	19.0349	19.0489			N/A
5/13/2019	CHFMXN	3:30:00 PM	19.1099	19.1181			N/A
5/13/2019	CHFNOK	9:30:00 AM	8.6453	8.6526			N/A
5/13/2019	CHFNOK	11:30:00 AM	8.6606	8.6672			N/A
5/13/2019	CHFNOK	1:30:00 PM	8.6599	8.6663			N/A
5/13/2019	CHFNOK	3:30:00 PM	8.6722	8.6777			N/A
5/13/2019	CHFNOK.fx	9:30:00 AM	8.64869	8.64934			N/A
5/13/2019	CHFNOK.fx	11:30:00 AM	8.6641	8.66371			N/A
5/13/2019	CHFNOK.fx	1:30:00 PM	8.66343	8.66272			N/A
5/13/2019	CHFNOK.fx	3:30:00 PM	8.67576	8.67416			N/A
5/13/2019	CHFPLN	9:30:00 AM	3.7878	3.7904			N/A
5/13/2019	CHFPLN	11:30:00 AM	3.7943	3.7971			N/A
5/13/2019	CHFPLN	1:30:00 PM	3.7957	3.7986			N/A
5/13/2019	CHFPLN	3:30:00 PM	3.8032	3.8047			N/A
5/13/2019	CHFPLN.fx	9:30:00 AM	3.78536	3.79271			N/A
5/13/2019	CHFPLN.fx	11:30:00 AM	3.79194	3.79944			N/A

5/13/2019	CHFPLN.fx	1:30:00 PM	3.79326	3.80085			N/A
5/13/2019	CHFPLN.fx	3:30:00 PM	3.80084	3.80695			N/A
5/13/2019	CHFSEK	9:30:00 AM	9.5353	9.5386			N/A
5/13/2019	CHFSEK	11:30:00 AM	9.5537	9.5574			N/A
5/13/2019	CHFSEK	1:30:00 PM	9.556	9.5591			N/A
5/13/2019	CHFSEK	3:30:00 PM	9.5729	9.5744			N/A
5/13/2019	CHFSGD	9:30:00 AM	1.3538	1.354			N/A
5/13/2019	CHFSGD	11:30:00 AM	1.3557	1.356			N/A
5/13/2019	CHFSGD	1:30:00 PM	1.3563	1.3564			N/A
5/13/2019	CHFSGD	3:30:00 PM	1.3605	1.3605			N/A
5/13/2019	CHFSGD.fx	9:30:00 AM	1.35393	1.35378			N/A
5/13/2019	CHFSGD.fx	11:30:00 AM	1.35588	1.35583			N/A
5/13/2019	CHFSGD.fx	1:30:00 PM	1.35633	1.35647			N/A
5/13/2019	CHFSGD.fx	3:30:00 PM	1.3607	1.36026			N/A
5/13/2019	CHFZAR	9:30:00 AM	14.0888	14.096			N/A
5/13/2019	CHFZAR	11:30:00 AM	14.1449	14.1529			N/A
5/13/2019	CHFZAR	1:30:00 PM	14.1493	14.1547			N/A
5/13/2019	CHFZAR	3:30:00 PM	14.2164	14.2199			N/A
5/13/2019	CZKJPY	9:30:00 AM	4.791	4.794			N/A
5/13/2019	CZKJPY	11:30:00 AM	4.784	4.786			N/A
5/13/2019	CZKJPY	1:30:00 PM	4.785	4.788			N/A
5/13/2019	CZKJPY	3:30:00 PM	4.77	4.774			N/A
5/13/2019	DAX30.i	9:30:00 AM	12081.35	12077.6			N/A
5/13/2019	DAX30.i	11:30:00 AM	11967.1	11959.35			N/A
5/13/2019	DAX30.i	1:30:00 PM	11968.6	11964.35			N/A
5/13/2019	DAX30.i	3:30:00 PM	11888.1	11875.25			N/A
5/13/2019	DJ30.i	9:30:00 AM					N/A
5/13/2019	DJ30.i	11:30:00 AM					N/A
5/13/2019	DJ30.i	1:30:00 PM					N/A
5/13/2019	DJ30.i	3:30:00 PM					N/A
5/13/2019	DKKJPY	9:30:00 AM					N/A
5/13/2019	DKKJPY	11:30:00 AM	16.51	16.52			N/A
5/13/2019	DKKJPY	1:30:00 PM					N/A
5/13/2019	DKKJPY	3:30:00 PM	16.47	16.48			N/A

5/13/2019	EURAUD	9:30:00 AM	1.61052	1.61033			N/A
5/13/2019	EURAUD	11:30:00 AM	1.60985	1.61028			N/A
5/13/2019	EURAUD	1:30:00 PM	1.60979	1.61006			N/A
5/13/2019	EURAUD	3:30:00 PM	1.61324	1.6134			N/A
5/13/2019	EURAUD.fx	9:30:00 AM	1.61072	1.61011			N/A
5/13/2019	EURAUD.fx	11:30:00 AM	1.61006	1.61006			N/A
5/13/2019	EURAUD.fx	1:30:00 PM	1.60999	1.60984			N/A
5/13/2019	EURAUD.fx	3:30:00 PM	1.61343	1.61319			N/A
5/13/2019	EURCAD	9:30:00 AM	1.50986	1.5105			N/A
5/13/2019	EURCAD	11:30:00 AM	1.50841	1.50926			N/A
5/13/2019	EURCAD	1:30:00 PM	1.50834	1.50912			N/A
5/13/2019	EURCAD	3:30:00 PM	1.51163	1.51213			N/A
5/13/2019	EURCAD.fx	9:30:00 AM	1.51027	1.51012			N/A
5/13/2019	EURCAD.fx	11:30:00 AM	1.50883	1.50884			N/A
5/13/2019	EURCAD.fx	1:30:00 PM	1.50876	1.50869			N/A
5/13/2019	EURCAD.fx	3:30:00 PM	1.51205	1.51172			N/A
5/13/2019	EURCHF	9:30:00 AM	1.13521	1.13517			N/A
5/13/2019	EURCHF	11:30:00 AM	1.13373	1.13372			N/A
5/13/2019	EURCHF	1:30:00 PM	1.13307	1.13319			N/A
5/13/2019	EURCHF	3:30:00 PM	1.13161	1.13145			N/A
5/13/2019	EURCHF.fx	9:30:00 AM	1.13526	1.13511			N/A
5/13/2019	EURCHF.fx	11:30:00 AM	1.1338	1.13366			N/A
5/13/2019	EURCHF.fx	1:30:00 PM	1.13313	1.13313			N/A
5/13/2019	EURCHF.fx	3:30:00 PM	1.13168	1.13139			N/A
5/13/2019	EURCZK	9:30:00 AM	25.709	25.744			N/A
5/13/2019	EURCZK	11:30:00 AM	25.735	25.767			N/A
5/13/2019	EURCZK	1:30:00 PM	25.732	25.771			N/A
5/13/2019	EURCZK	3:30:00 PM	25.739	25.776			N/A
5/13/2019	EURDKK	9:30:00 AM	7.4651	7.4658			N/A
5/13/2019	EURDKK	11:30:00 AM	7.4651	7.4662			N/A
5/13/2019	EURDKK	1:30:00 PM	7.465	7.4657			N/A
5/13/2019	EURDKK	3:30:00 PM	7.4661	7.4663			N/A
5/13/2019	EURGBP	9:30:00 AM	0.86336	0.8633			N/A
5/13/2019	EURGBP	11:30:00 AM	0.86327	0.86336			N/A

5/13/2019	EURGBP	1:30:00 PM	0.86282	0.86281			N/A
5/13/2019	EURGBP	3:30:00 PM	0.86353	0.86344			N/A
5/13/2019	EURGBP.fx	9:30:00 AM	0.8634	0.86325			N/A
5/13/2019	EURGBP.fx	11:30:00 AM	0.86332	0.86331			N/A
5/13/2019	EURGBP.fx	1:30:00 PM	0.86286	0.86275			N/A
5/13/2019	EURGBP.fx	3:30:00 PM	0.86357	0.8634			N/A
5/13/2019	EURHKD	9:30:00 AM	8.8146	8.8191			N/A
5/13/2019	EURHKD	11:30:00 AM	8.8132	8.8187			N/A
5/13/2019	EURHKD	1:30:00 PM	8.8174	8.8226			N/A
5/13/2019	EURHKD	3:30:00 PM	8.8289	8.8316			N/A
5/13/2019	EURHKD.fx	9:30:00 AM	8.81733	8.81632			N/A
5/13/2019	EURHKD.fx	11:30:00 AM	8.81602	8.8159			N/A
5/13/2019	EURHKD.fx	1:30:00 PM	8.82018	8.8197			N/A
5/13/2019	EURHKD.fx	3:30:00 PM	8.83169	8.82887			N/A
5/13/2019	EURHUF	9:30:00 AM	323.29	323.93			N/A
5/13/2019	EURHUF	11:30:00 AM	323.65	324.27			N/A
5/13/2019	EURHUF	1:30:00 PM	323.78	324.51			N/A
5/13/2019	EURHUF	3:30:00 PM	323.23	323.87			N/A
5/13/2019	EURHUF.fx	9:30:00 AM	323.557	323.718			N/A
5/13/2019	EURHUF.fx	11:30:00 AM	323.939	324.014			N/A
5/13/2019	EURHUF.fx	1:30:00 PM	324.049	324.228			N/A
5/13/2019	EURHUF.fx	3:30:00 PM	323.493	323.646			N/A
5/13/2019	EURJPY	9:30:00 AM	123.282	123.281			N/A
5/13/2019	EURJPY	11:30:00 AM	123.209	123.184			N/A
5/13/2019	EURJPY	1:30:00 PM	123.246	123.241			N/A
5/13/2019	EURJPY	3:30:00 PM	122.925	122.896			N/A
5/13/2019	EURJPY.fx	9:30:00 AM	123.284	123.276			N/A
5/13/2019	EURJPY.fx	11:30:00 AM	123.211	123.18			N/A
5/13/2019	EURJPY.fx	1:30:00 PM	123.249	123.238			N/A
5/13/2019	EURJPY.fx	3:30:00 PM	122.927	122.893			N/A
5/13/2019	EURMXN	9:30:00 AM	21.5439	21.5487			N/A
5/13/2019	EURMXN	11:30:00 AM	21.5688	21.5856			N/A
5/13/2019	EURMXN	1:30:00 PM	21.5691	21.5873			N/A
5/13/2019	EURMXN	3:30:00 PM	21.6238	21.6331			N/A

5/13/2019	EURMXN.fx	9:30:00 AM	21.5527	21.5402			N/A
5/13/2019	EURMXN.fx	11:30:00 AM	21.5768	21.5776			N/A
5/13/2019	EURMXN.fx	1:30:00 PM	21.577	21.5793			N/A
5/13/2019	EURMXN.fx	3:30:00 PM	21.6332	21.6234			N/A
5/13/2019	EURNOK	9:30:00 AM	9.812	9.8239			N/A
5/13/2019	EURNOK	11:30:00 AM	9.8176	9.8274			N/A
5/13/2019	EURNOK	1:30:00 PM	9.8112	9.8216			N/A
5/13/2019	EURNOK	3:30:00 PM	9.812	9.8217			N/A
5/13/2019	EURNOK.fx	9:30:00 AM	9.81718	9.8187			N/A
5/13/2019	EURNOK.fx	11:30:00 AM	9.82301	9.82198			N/A
5/13/2019	EURNOK.fx	1:30:00 PM	9.8167	9.81616			N/A
5/13/2019	EURNOK.fx	3:30:00 PM	9.81754	9.81616			N/A
5/13/2019	EURNZD	9:30:00 AM	1.70777	1.7079			N/A
5/13/2019	EURNZD	11:30:00 AM	1.70664	1.70739			N/A
5/13/2019	EURNZD	1:30:00 PM	1.70632	1.70703			N/A
5/13/2019	EURNZD	3:30:00 PM	1.70786	1.7086			N/A
5/13/2019	EURNZD.fx	9:30:00 AM	1.7082	1.70749			N/A
5/13/2019	EURNZD.fx	11:30:00 AM	1.70705	1.70698			N/A
5/13/2019	EURNZD.fx	1:30:00 PM	1.70674	1.70661			N/A
5/13/2019	EURNZD.fx	3:30:00 PM	1.70828	1.70817			N/A
5/13/2019	EURPLN	9:30:00 AM	4.2998	4.3026			N/A
5/13/2019	EURPLN	11:30:00 AM	4.3017	4.3048			N/A
5/13/2019	EURPLN	1:30:00 PM	4.3009	4.3035			N/A
5/13/2019	EURPLN	3:30:00 PM	4.3029	4.3051			N/A
5/13/2019	EURPLN.fx	9:30:00 AM	4.29898	4.30338			N/A
5/13/2019	EURPLN.fx	11:30:00 AM	4.30107	4.30562			N/A
5/13/2019	EURPLN.fx	1:30:00 PM	4.30027	4.30472			N/A
5/13/2019	EURPLN.fx	3:30:00 PM	4.30222	4.30552			N/A
5/13/2019	EURRUB	9:30:00 AM					N/A
5/13/2019	EURRUB	11:30:00 AM	73.148	73.567			N/A
5/13/2019	EURRUB	1:30:00 PM	73.001	73.445			N/A
5/13/2019	EURRUB	3:30:00 PM	73.263	73.687			N/A
5/13/2019	EURSEK	9:30:00 AM	10.8268	10.8291			N/A
5/13/2019	EURSEK	11:30:00 AM	10.8328	10.836			N/A

5/13/2019	EURSEK	1:30:00 PM	10.8287	10.8323			N/A
5/13/2019	EURSEK	3:30:00 PM	10.8327	10.8337			N/A
5/13/2019	EURSEK.fx	9:30:00 AM	10.82835	10.82725			N/A
5/13/2019	EURSEK.fx	11:30:00 AM	10.83437	10.83432			N/A
5/13/2019	EURSEK.fx	1:30:00 PM	10.83057	10.83042			N/A
5/13/2019	EURSEK.fx	3:30:00 PM	10.83448	10.83177			N/A
5/13/2019	EURSGD	9:30:00 AM	1.5365	1.5372			N/A
5/13/2019	EURSGD	11:30:00 AM	1.5368	1.5376			N/A
5/13/2019	EURSGD	1:30:00 PM	1.5366	1.5374			N/A
5/13/2019	EURSGD	3:30:00 PM	1.5391	1.5397			N/A
5/13/2019	EURSGD.fx	9:30:00 AM	1.53687	1.53682			N/A
5/13/2019	EURSGD.fx	11:30:00 AM	1.53714	1.53722			N/A
5/13/2019	EURSGD.fx	1:30:00 PM	1.53692	1.53702			N/A
5/13/2019	EURSGD.fx	3:30:00 PM	1.53948	1.53927			N/A
5/13/2019	EURUSD	9:30:00 AM	1.12328	1.12331			N/A
5/13/2019	EURUSD	11:30:00 AM	1.12303	1.12314			N/A
5/13/2019	EURUSD	1:30:00 PM	1.12357	1.12367			N/A
5/13/2019	EURUSD	3:30:00 PM	1.12501	1.12478			N/A
5/13/2019	EURUSD.fx	9:30:00 AM	1.12348	1.1234			N/A
5/13/2019	EURUSD.fx	11:30:00 AM	1.12323	1.12323			N/A
5/13/2019	EURUSD.fx	1:30:00 PM	1.12377	1.12376			N/A
5/13/2019	EURUSD.fx	3:30:00 PM	1.12521	1.12487			N/A
5/13/2019	EURZAR	9:30:00 AM	15.9926	16.0042			N/A
5/13/2019	EURZAR	11:30:00 AM	16.0378	16.0485			N/A
5/13/2019	EURZAR	1:30:00 PM	16.0329	16.0435			N/A
5/13/2019	EURZAR	3:30:00 PM	16.0927	16.1007			N/A
5/13/2019	EURZAR.fx	9:30:00 AM	15.99243	16.00487			N/A
5/13/2019	EURZAR.fx	11:30:00 AM	16.03769	16.04875			N/A
5/13/2019	EURZAR.fx	1:30:00 PM	16.03234	16.04424			N/A
5/13/2019	EURZAR.fx	3:30:00 PM	16.09195	16.10137			N/A
5/13/2019	GBPAUD	9:30:00 AM	1.86592	1.86633			N/A
5/13/2019	GBPAUD	11:30:00 AM	1.86523	1.86608			N/A
5/13/2019	GBPAUD	1:30:00 PM	1.86628	1.86675			N/A
5/13/2019	GBPAUD	3:30:00 PM	1.86895	1.86923			N/A

5/13/2019	GBPAUD.fx	9:30:00 AM	1.86633	1.86592			N/A
5/13/2019	GBPAUD.fx	11:30:00 AM	1.86563	1.86567			N/A
5/13/2019	GBPAUD.fx	1:30:00 PM	1.86666	1.86635			N/A
5/13/2019	GBPAUD.fx	3:30:00 PM	1.86935	1.86882			N/A
5/13/2019	GBPCAD	9:30:00 AM	1.74893	1.74956			N/A
5/13/2019	GBPCAD	11:30:00 AM	1.74742	1.74811			N/A
5/13/2019	GBPCAD	1:30:00 PM	1.74837	1.74886			N/A
5/13/2019	GBPCAD	3:30:00 PM	1.75063	1.75122			N/A
5/13/2019	GBPCAD.fx	9:30:00 AM	1.74932	1.74916			N/A
5/13/2019	GBPCAD.fx	11:30:00 AM	1.7478	1.74771			N/A
5/13/2019	GBPCAD.fx	1:30:00 PM	1.74875	1.74846			N/A
5/13/2019	GBPCAD.fx	3:30:00 PM	1.75103	1.75083			N/A
5/13/2019	GBPCHF	9:30:00 AM	1.31469	1.31503			N/A
5/13/2019	GBPCHF	11:30:00 AM	1.3131	1.31338			N/A
5/13/2019	GBPCHF	1:30:00 PM	1.31319	1.31341			N/A
5/13/2019	GBPCHF	3:30:00 PM	1.31042	1.31032			N/A
5/13/2019	GBPCHF.fx	9:30:00 AM	1.31488	1.31482			N/A
5/13/2019	GBPCHF.fx	11:30:00 AM	1.31328	1.31316			N/A
5/13/2019	GBPCHF.fx	1:30:00 PM	1.31337	1.31319			N/A
5/13/2019	GBPCHF.fx	3:30:00 PM	1.31063	1.3101			N/A
5/13/2019	GBPCZK	9:30:00 AM	29.79	29.81			N/A
5/13/2019	GBPCZK	11:30:00 AM	29.823	29.834			N/A
5/13/2019	GBPCZK	1:30:00 PM	29.836	29.854			N/A
5/13/2019	GBPCZK	3:30:00 PM	29.823	29.839			N/A
5/13/2019	GBPDKK	9:30:00 AM	8.642	8.653			N/A
5/13/2019	GBPDKK	11:30:00 AM	8.643	8.654			N/A
5/13/2019	GBPDKK	1:30:00 PM	8.649	8.659			N/A
5/13/2019	GBPDKK	3:30:00 PM	8.644	8.652			N/A
5/13/2019	GBPDKK.fx	9:30:00 AM	8.6423	8.6538			N/A
5/13/2019	GBPDKK.fx	11:30:00 AM	8.6417	8.6544			N/A
5/13/2019	GBPDKK.fx	1:30:00 PM	8.6476	8.6591			N/A
5/13/2019	GBPDKK.fx	3:30:00 PM	8.6421	8.6528			N/A
5/13/2019	GBPHKD	9:30:00 AM	10.2086	10.2123			N/A
5/13/2019	GBPHKD	11:30:00 AM	10.2069	10.2123			N/A

5/13/2019	GBPHKD	1:30:00 PM	10.2179	10.2214			N/A
5/13/2019	GBPHKD	3:30:00 PM	10.2207	10.2248			N/A
5/13/2019	GBPHUF	9:30:00 AM	374.55	374.94			N/A
5/13/2019	GBPHUF	11:30:00 AM	374.95	375.27			N/A
5/13/2019	GBPHUF	1:30:00 PM	375.31	375.71			N/A
5/13/2019	GBPHUF	3:30:00 PM	374.31	374.49			N/A
5/13/2019	GBPJPY	9:30:00 AM	142.785	142.801			N/A
5/13/2019	GBPJPY	11:30:00 AM	142.7	142.705			N/A
5/13/2019	GBPJPY	1:30:00 PM	142.84	142.839			N/A
5/13/2019	GBPJPY	3:30:00 PM	142.353	142.34			N/A
5/13/2019	GBPJPY.fx	9:30:00 AM	142.805	142.781			N/A
5/13/2019	GBPJPY.fx	11:30:00 AM	142.72	142.684			N/A
5/13/2019	GBPJPY.fx	1:30:00 PM	142.859	142.819			N/A
5/13/2019	GBPJPY.fx	3:30:00 PM	142.373	142.32			N/A
5/13/2019	GBPMXN	9:30:00 AM	24.9493	24.9532			N/A
5/13/2019	GBPMXN	11:30:00 AM	24.9805	24.993			N/A
5/13/2019	GBPMXN	1:30:00 PM	24.9948	25.0066			N/A
5/13/2019	GBPMXN	3:30:00 PM	25.0359	25.0462			N/A
5/13/2019	GBPNOK	9:30:00 AM	11.3671	11.3775			N/A
5/13/2019	GBPNOK	11:30:00 AM	11.3735	11.3823			N/A
5/13/2019	GBPNOK	1:30:00 PM	11.3733	11.3823			N/A
5/13/2019	GBPNOK	3:30:00 PM	11.3641	11.3725			N/A
5/13/2019	GBPNOK.fx	9:30:00 AM	11.37149	11.37307			N/A
5/13/2019	GBPNOK.fx	11:30:00 AM	11.37832	11.37745			N/A
5/13/2019	GBPNOK.fx	1:30:00 PM	11.37829	11.37739			N/A
5/13/2019	GBPNOK.fx	3:30:00 PM	11.36914	11.36742			N/A
5/13/2019	GBPNZD	9:30:00 AM	1.97814	1.97848			N/A
5/13/2019	GBPNZD	11:30:00 AM	1.97695	1.9776			N/A
5/13/2019	GBPNZD	1:30:00 PM	1.97772	1.97815			N/A
5/13/2019	GBPNZD	3:30:00 PM	1.97817	1.97836			N/A
5/13/2019	GBPNZD.fx	9:30:00 AM	1.9785	1.9781			N/A
5/13/2019	GBPNZD.fx	11:30:00 AM	1.97731	1.97722			N/A
5/13/2019	GBPNZD.fx	1:30:00 PM	1.97807	1.97778			N/A
5/13/2019	GBPNZD.fx	3:30:00 PM	1.97852	1.97799			N/A

5/13/2019	GBPPLN	9:30:00 AM	4.9816	4.9827			N/A
5/13/2019	GBPPLN	11:30:00 AM	4.9836	4.9854			N/A
5/13/2019	GBPPLN	1:30:00 PM	4.986	4.9872			N/A
5/13/2019	GBPPLN	3:30:00 PM	4.9839	4.9855			N/A
5/13/2019	GBPPLN.fx	9:30:00 AM	4.97926	4.9849			N/A
5/13/2019	GBPPLN.fx	11:30:00 AM	4.98146	4.98754			N/A
5/13/2019	GBPPLN.fx	1:30:00 PM	4.98392	4.98953			N/A
5/13/2019	GBPPLN.fx	3:30:00 PM	4.98189	4.98754			N/A
5/13/2019	GBPSEK	9:30:00 AM	12.5376	12.5462			N/A
5/13/2019	GBPSEK	11:30:00 AM	12.5459	12.5536			N/A
5/13/2019	GBPSEK	1:30:00 PM	12.5497	12.5558			N/A
5/13/2019	GBPSEK	3:30:00 PM	12.5427	12.5499			N/A
5/13/2019	GBPSEK.fx	9:30:00 AM	12.53378	12.54984			N/A
5/13/2019	GBPSEK.fx	11:30:00 AM	12.54223	12.55708			N/A
5/13/2019	GBPSEK.fx	1:30:00 PM	12.54603	12.55937			N/A
5/13/2019	GBPSEK.fx	3:30:00 PM	12.53917	12.55329			N/A
5/13/2019	GBPSGD	9:30:00 AM	1.7798	1.7804			N/A
5/13/2019	GBPSGD	11:30:00 AM	1.7803	1.781			N/A
5/13/2019	GBPSGD	1:30:00 PM	1.7812	1.7816			N/A
5/13/2019	GBPSGD	3:30:00 PM	1.7825	1.7832			N/A
5/13/2019	GBPSGD.fx	9:30:00 AM	1.77802	1.78218			N/A
5/13/2019	GBPSGD.fx	11:30:00 AM	1.77842	1.7828			N/A
5/13/2019	GBPSGD.fx	1:30:00 PM	1.77933	1.78345			N/A
5/13/2019	GBPSGD.fx	3:30:00 PM	1.78063	1.78499			N/A
5/13/2019	GBPUSD	9:30:00 AM	1.30138	1.30117			N/A
5/13/2019	GBPUSD	11:30:00 AM	1.30108	1.30107			N/A
5/13/2019	GBPUSD	1:30:00 PM	1.30255	1.30235			N/A
5/13/2019	GBPUSD	3:30:00 PM	1.3029	1.30292			N/A
5/13/2019	GBPUSD.fx	9:30:00 AM	1.30145	1.30112			N/A
5/13/2019	GBPUSD.fx	11:30:00 AM	1.30113	1.30101			N/A
5/13/2019	GBPUSD.fx	1:30:00 PM	1.30259	1.30229			N/A
5/13/2019	GBPUSD.fx	3:30:00 PM	1.30295	1.30286			N/A
5/13/2019	GBPZAR	9:30:00 AM	18.5205	18.5405			N/A
5/13/2019	GBPZAR	11:30:00 AM	18.5731	18.5923			N/A

5/13/2019	GBPZAR	1:30:00 PM	18.5767	18.597			N/A
5/13/2019	GBPZAR	3:30:00 PM	18.6323	18.6513			N/A
5/13/2019	GBPZAR.fx	9:30:00 AM	18.5283	18.5334			N/A
5/13/2019	GBPZAR.fx	11:30:00 AM	18.5807	18.5848			N/A
5/13/2019	GBPZAR.fx	1:30:00 PM	18.5839	18.5893			N/A
5/13/2019	GBPZAR.fx	3:30:00 PM	18.6391	18.6444			N/A
5/13/2019	GOLD	9:30:00 AM	1283.36	1283.41			N/A
5/13/2019	GOLD	11:30:00 AM	1283.03	1283.1			N/A
5/13/2019	GOLD	1:30:00 PM	1283.62	1283.96			N/A
5/13/2019	GOLD	3:30:00 PM	1287.56	1287.29			N/A
5/13/2019	HKDJPY	9:30:00 AM					N/A
5/13/2019	HKDJPY	11:30:00 AM	13.97	13.98			N/A
5/13/2019	HKDJPY	1:30:00 PM					N/A
5/13/2019	HKDJPY	3:30:00 PM	13.92	13.93			N/A
5/13/2019	HKDJPY.fx	9:30:00 AM	13.978	13.985			N/A
5/13/2019	HKDJPY.fx	11:30:00 AM	13.972	13.975			N/A
5/13/2019	HKDJPY.fx	1:30:00 PM	13.969	13.976			N/A
5/13/2019	HKDJPY.fx	3:30:00 PM	13.918	13.919			N/A
5/13/2019	HUFJPY	9:30:00 AM	0.3812	0.3815			N/A
5/13/2019	HUFJPY	11:30:00 AM	0.3802	0.3805			N/A
5/13/2019	HUFJPY	1:30:00 PM	0.3804	0.3807			N/A
5/13/2019	HUFJPY	3:30:00 PM	0.3802	0.3806			N/A
5/13/2019	JP225.i	9:30:00 AM	21198.92	21213.92			N/A
5/13/2019	JP225.i	11:30:00 AM	21108.92	21123.92			N/A
5/13/2019	JP225.i	1:30:00 PM	21113.92	21123.92			N/A
5/13/2019	JP225.i	3:30:00 PM	20958.92	20953.92			N/A
5/13/2019	MXNJPY	9:30:00 AM	5.72	5.73			N/A
5/13/2019	MXNJPY	11:30:00 AM	5.71	5.72			N/A
5/13/2019	MXNJPY	1:30:00 PM					N/A
5/13/2019	MXNJPY	3:30:00 PM	5.68	5.69			N/A
5/13/2019	NASDAQ.i	9:30:00 AM					N/A
5/13/2019	NASDAQ.i	11:30:00 AM					N/A
5/13/2019	NASDAQ.i	1:30:00 PM					N/A
5/13/2019	NASDAQ.i	3:30:00 PM					N/A

5/13/2019	NOKJPY	9:30:00 AM	12.55	12.58			N/A
5/13/2019	NOKJPY	11:30:00 AM	12.53	12.56			N/A
5/13/2019	NOKJPY	1:30:00 PM	12.54	12.57			N/A
5/13/2019	NOKJPY	3:30:00 PM	12.51	12.54			N/A
5/13/2019	NOKJPY.fx	9:30:00 AM	12.553	12.56			N/A
5/13/2019	NOKJPY.fx	11:30:00 AM	12.541	12.543			N/A
5/13/2019	NOKJPY.fx	1:30:00 PM	12.553	12.557			N/A
5/13/2019	NOKJPY.fx	3:30:00 PM	12.52	12.52			N/A
5/13/2019	NZDCAD	9:30:00 AM	0.88397	0.88451			N/A
5/13/2019	NZDCAD	11:30:00 AM	0.88359	0.88423			N/A
5/13/2019	NZDCAD	1:30:00 PM	0.88368	0.88438			N/A
5/13/2019	NZDCAD	3:30:00 PM	0.88481	0.88532			N/A
5/13/2019	NZDCAD.fx	9:30:00 AM	0.8843	0.88417			N/A
5/13/2019	NZDCAD.fx	11:30:00 AM	0.88391	0.8839			N/A
5/13/2019	NZDCAD.fx	1:30:00 PM	0.88402	0.88404			N/A
5/13/2019	NZDCAD.fx	3:30:00 PM	0.88516	0.88498			N/A
5/13/2019	NZDCHF	9:30:00 AM	0.66438	0.66488			N/A
5/13/2019	NZDCHF	11:30:00 AM	0.66386	0.6645			N/A
5/13/2019	NZDCHF	1:30:00 PM	0.66359	0.66425			N/A
5/13/2019	NZDCHF	3:30:00 PM	0.66211	0.66274			N/A
5/13/2019	NZDCHF.fx	9:30:00 AM	0.66471	0.66452			N/A
5/13/2019	NZDCHF.fx	11:30:00 AM	0.6642	0.66415			N/A
5/13/2019	NZDCHF.fx	1:30:00 PM	0.66393	0.6639			N/A
5/13/2019	NZDCHF.fx	3:30:00 PM	0.66245	0.66239			N/A
5/13/2019	NZDCZK	9:30:00 AM	15.06	15.068			N/A
5/13/2019	NZDCZK	11:30:00 AM	15.081	15.088			N/A
5/13/2019	NZDCZK	1:30:00 PM	15.083	15.093			N/A
5/13/2019	NZDCZK	3:30:00 PM	15.075	15.086			N/A
5/13/2019	NZDDKK	9:30:00 AM	4.37	4.373			N/A
5/13/2019	NZDDKK	11:30:00 AM					N/A
5/13/2019	NZDDKK	1:30:00 PM	4.373	4.377			N/A
5/13/2019	NZDDKK	3:30:00 PM	4.369	4.373			N/A
5/13/2019	NZDHKD	9:30:00 AM	5.1606	5.1618			N/A
5/13/2019	NZDHKD	11:30:00 AM	5.1612	5.164			N/A

5/13/2019	NZDHKD	1:30:00 PM	5.165	5.1671			N/A
5/13/2019	NZDHKD	3:30:00 PM	5.166	5.1688			N/A
5/13/2019	NZDHUF	9:30:00 AM	189.31	189.53			N/A
5/13/2019	NZDHUF	11:30:00 AM	189.58	189.8			N/A
5/13/2019	NZDHUF	1:30:00 PM	189.69	189.95			N/A
5/13/2019	NZDHUF	3:30:00 PM	189.2	189.34			N/A
5/13/2019	NZDJPY	9:30:00 AM	72.159	72.209			N/A
5/13/2019	NZDJPY	11:30:00 AM	72.144	72.197			N/A
5/13/2019	NZDJPY	1:30:00 PM	72.184	72.24			N/A
5/13/2019	NZDJPY	3:30:00 PM	71.927	71.975			N/A
5/13/2019	NZDJPY.fx	9:30:00 AM	72.19	72.176			N/A
5/13/2019	NZDJPY.fx	11:30:00 AM	72.175	72.164			N/A
5/13/2019	NZDJPY.fx	1:30:00 PM	72.215	72.207			N/A
5/13/2019	NZDJPY.fx	3:30:00 PM	71.958	71.943			N/A
5/13/2019	NZDMXN	9:30:00 AM	12.6119	12.6141			N/A
5/13/2019	NZDMXN	11:30:00 AM	12.6337	12.6371			N/A
5/13/2019	NZDMXN	1:30:00 PM	12.6358	12.6418			N/A
5/13/2019	NZDMXN	3:30:00 PM	12.6565	12.6609			N/A
5/13/2019	NZDNOK	9:30:00 AM	5.745	5.7473			N/A
5/13/2019	NZDNOK	11:30:00 AM	5.7503	5.7533			N/A
5/13/2019	NZDNOK	1:30:00 PM	5.7484	5.7513			N/A
5/13/2019	NZDNOK	3:30:00 PM	5.7427	5.7446			N/A
5/13/2019	NZDPLN	9:30:00 AM	2.5175	2.5183			N/A
5/13/2019	NZDPLN	11:30:00 AM	2.5195	2.5209			N/A
5/13/2019	NZDPLN	1:30:00 PM	2.5199	2.5208			N/A
5/13/2019	NZDPLN	3:30:00 PM	2.5186	2.5201			N/A
5/13/2019	NZDSEK	9:30:00 AM	6.3341	6.3402			N/A
5/13/2019	NZDSEK	11:30:00 AM	6.3411	6.348			N/A
5/13/2019	NZDSEK	1:30:00 PM	6.3413	6.3466			N/A
5/13/2019	NZDSEK	3:30:00 PM	6.3374	6.3438			N/A
5/13/2019	NZDSGD	9:30:00 AM	0.8997	0.9001			N/A
5/13/2019	NZDSGD	11:30:00 AM	0.9002	0.9006			N/A
5/13/2019	NZDSGD	1:30:00 PM	0.9003	0.9009			N/A
5/13/2019	NZDSGD	3:30:00 PM	0.9009	0.9012			N/A

5/13/2019	NZDSGD.fx	9:30:00 AM	0.89968	0.90001			N/A
5/13/2019	NZDSGD.fx	11:30:00 AM	0.90023	0.9008			N/A
5/13/2019	NZDSGD.fx	1:30:00 PM	0.9003	0.90081			N/A
5/13/2019	NZDSGD.fx	3:30:00 PM	0.90098	0.90135			N/A
5/13/2019	NZDUSD	9:30:00 AM	0.65781	0.65773			N/A
5/13/2019	NZDUSD	11:30:00 AM	0.65791	0.65804			N/A
5/13/2019	NZDUSD	1:30:00 PM	0.65837	0.65843			N/A
5/13/2019	NZDUSD	3:30:00 PM	0.6586	0.65853			N/A
5/13/2019	NZDUSD.fx	9:30:00 AM	0.65788	0.65774			N/A
5/13/2019	NZDUSD.fx	11:30:00 AM	0.65799	0.65806			N/A
5/13/2019	NZDUSD.fx	1:30:00 PM	0.65844	0.65845			N/A
5/13/2019	NZDUSD.fx	3:30:00 PM	0.65867	0.65855			N/A
5/13/2019	NZDZAR	9:30:00 AM	9.3566	9.3685			N/A
5/13/2019	NZDZAR	11:30:00 AM	9.3872	9.4002			N/A
5/13/2019	NZDZAR	1:30:00 PM	9.3872	9.4002			N/A
5/13/2019	NZDZAR	3:30:00 PM	9.4102	9.4223			N/A
5/13/2019	SEKJPY	9:30:00 AM	11.38	11.4			N/A
5/13/2019	SEKJPY	11:30:00 AM	11.37	11.38			N/A
5/13/2019	SEKJPY	1:30:00 PM	11.38	11.39			N/A
5/13/2019	SEKJPY	3:30:00 PM	11.35	11.35			N/A
5/13/2019	SEKJPY.fx	9:30:00 AM	11.376	11.393			N/A
5/13/2019	SEKJPY.fx	11:30:00 AM	11.363	11.378			N/A
5/13/2019	SEKJPY.fx	1:30:00 PM	11.371	11.387			N/A
5/13/2019	SEKJPY.fx	3:30:00 PM	11.339	11.351			N/A
5/13/2019	SGDJPY	9:30:00 AM	80.19	80.21			N/A
5/13/2019	SGDJPY	11:30:00 AM	80.12	80.13			N/A
5/13/2019	SGDJPY	1:30:00 PM	80.18	80.18			N/A
5/13/2019	SGDJPY	3:30:00 PM	79.82	79.83			N/A
5/13/2019	SILVER	9:30:00 AM	14.48	14.86			N/A
5/13/2019	SILVER	11:30:00 AM	14.46	14.84			N/A
5/13/2019	SILVER	1:30:00 PM	14.47	14.85			N/A
5/13/2019	SILVER	3:30:00 PM	14.46	14.82			N/A
5/13/2019	SPX500.i	9:30:00 AM	2856.65	2857.7			N/A
5/13/2019	SPX500.i	11:30:00 AM	2850.4	2850.95			N/A

5/13/2019	SPX500.i	1:30:00 PM	2851.4	2851.7			N/A
5/13/2019	SPX500.i	3:30:00 PM	2833.15	2831.45			N/A
5/13/2019	UK100.i	9:30:00 AM	7221.58	7221.99			N/A
5/13/2019	UK100.i	11:30:00 AM	7200.58	7198.49			N/A
5/13/2019	UK100.i	1:30:00 PM	7204.49	7204.99			N/A
5/13/2019	UK100.i	3:30:00 PM	7176.83	7175.24			N/A
5/13/2019	USDCAD	9:30:00 AM	1.34428	1.34426			N/A
5/13/2019	USDCAD	11:30:00 AM	1.34328	1.34334			N/A
5/13/2019	USDCAD	1:30:00 PM	1.34263	1.34259			N/A
5/13/2019	USDCAD	3:30:00 PM	1.34395	1.3439			N/A
5/13/2019	USDCAD.fx	9:30:00 AM	1.34432	1.34423			N/A
5/13/2019	USDCAD.fx	11:30:00 AM	1.34331	1.34331			N/A
5/13/2019	USDCAD.fx	1:30:00 PM	1.34267	1.34255			N/A
5/13/2019	USDCAD.fx	3:30:00 PM	1.34398	1.34387			N/A
5/13/2019	USDCHF	9:30:00 AM	1.01051	1.01044			N/A
5/13/2019	USDCHF	11:30:00 AM	1.00934	1.00936			N/A
5/13/2019	USDCHF	1:30:00 PM	1.00824	1.00841			N/A
5/13/2019	USDCHF	3:30:00 PM	1.0059	1.00559			N/A
5/13/2019	USDCHF.fx	9:30:00 AM	1.01055	1.01036			N/A
5/13/2019	USDCHF.fx	11:30:00 AM	1.00939	1.0093			N/A
5/13/2019	USDCHF.fx	1:30:00 PM	1.00829	1.00835			N/A
5/13/2019	USDCHF.fx	3:30:00 PM	1.00595	1.00553			N/A
5/13/2019	USDCZK	9:30:00 AM	22.909	22.928			N/A
5/13/2019	USDCZK	11:30:00 AM	22.937	22.953			N/A
5/13/2019	USDCZK	1:30:00 PM	22.923	22.945			N/A
5/13/2019	USDCZK	3:30:00 PM	22.906	22.923			N/A
5/13/2019	USDCZK.fx	9:30:00 AM	22.9188	22.9195			N/A
5/13/2019	USDCZK.fx	11:30:00 AM	22.9448	22.946			N/A
5/13/2019	USDCZK.fx	1:30:00 PM	22.9307	22.937			N/A
5/13/2019	USDCZK.fx	3:30:00 PM	22.9139	22.9141			N/A
5/13/2019	USDDKK	9:30:00 AM	6.6448	6.6482			N/A
5/13/2019	USDDKK	11:30:00 AM	6.6454	6.6496			N/A
5/13/2019	USDDKK	1:30:00 PM	6.6426	6.6466			N/A
5/13/2019	USDDKK	3:30:00 PM	6.6367	6.6388			N/A

5/13/2019	USDDKK.fx	9:30:00 AM	6.64514	6.64614			N/A
5/13/2019	USDDKK.fx	11:30:00 AM	6.64605	6.64762			N/A
5/13/2019	USDDKK.fx	1:30:00 PM	6.64307	6.64462			N/A
5/13/2019	USDDKK.fx	3:30:00 PM	6.63718	6.63666			N/A
5/13/2019	USDHKD	9:30:00 AM	7.8479	7.8482			N/A
5/13/2019	USDHKD	11:30:00 AM	7.8485	7.8489			N/A
5/13/2019	USDHKD	1:30:00 PM	7.8482	7.8484			N/A
5/13/2019	USDHKD	3:30:00 PM	7.8486	7.8487			N/A
5/13/2019	USDHKD.fx	9:30:00 AM	7.84785	7.84842			N/A
5/13/2019	USDHKD.fx	11:30:00 AM	7.84844	7.84891			N/A
5/13/2019	USDHKD.fx	1:30:00 PM	7.84825	7.84878			N/A
5/13/2019	USDHKD.fx	3:30:00 PM	7.84858	7.84911			N/A
5/13/2019	USDHUF	9:30:00 AM	287.87	288.31			N/A
5/13/2019	USDHUF	11:30:00 AM	288.25	288.62			N/A
5/13/2019	USDHUF	1:30:00 PM	288.2	288.66			N/A
5/13/2019	USDHUF	3:30:00 PM	287.39	287.82			N/A
5/13/2019	USDHUF.fx	9:30:00 AM	288.07	288.107			N/A
5/13/2019	USDHUF.fx	11:30:00 AM	288.455	288.414			N/A
5/13/2019	USDHUF.fx	1:30:00 PM	288.403	288.447			N/A
5/13/2019	USDHUF.fx	3:30:00 PM	287.582	287.617			N/A
5/13/2019	USDINR	9:30:00 AM	65.32	75.29			N/A
5/13/2019	USDINR	11:30:00 AM	65.37	75.36			N/A
5/13/2019	USDINR	1:30:00 PM					N/A
5/13/2019	USDINR	3:30:00 PM					N/A
5/13/2019	USDJPY	9:30:00 AM	109.729	109.741			N/A
5/13/2019	USDJPY	11:30:00 AM	109.691	109.671			N/A
5/13/2019	USDJPY	1:30:00 PM	109.668	109.673			N/A
5/13/2019	USDJPY	3:30:00 PM	109.272	109.235			N/A
5/13/2019	USDJPY.fx	9:30:00 AM	109.734	109.734			N/A
5/13/2019	USDJPY.fx	11:30:00 AM	109.696	109.664			N/A
5/13/2019	USDJPY.fx	1:30:00 PM	109.674	109.666			N/A
5/13/2019	USDJPY.fx	3:30:00 PM	109.277	109.228			N/A
5/13/2019	USDMXN	9:30:00 AM	19.181	19.18			N/A
5/13/2019	USDMXN	11:30:00 AM	19.207	19.214			N/A

5/13/2019	USDMXN	1:30:00 PM	19.2	19.205			N/A
5/13/2019	USDMXN	3:30:00 PM	19.224	19.226			N/A
5/13/2019	USDMXN.fx	9:30:00 AM	19.1843	19.174			N/A
5/13/2019	USDMXN.fx	11:30:00 AM	19.2102	19.2088			N/A
5/13/2019	USDMXN.fx	1:30:00 PM	19.2038	19.2019			N/A
5/13/2019	USDMXN.fx	3:30:00 PM	19.2277	19.2213			N/A
5/13/2019	USDNOK	9:30:00 AM	8.7353	8.7436			N/A
5/13/2019	USDNOK	11:30:00 AM	8.7419	8.7484			N/A
5/13/2019	USDNOK	1:30:00 PM	8.7322	8.739			N/A
5/13/2019	USDNOK	3:30:00 PM	8.7221	8.7286			N/A
5/13/2019	USDNOK.fx	9:30:00 AM	8.73928	8.73948			N/A
5/13/2019	USDNOK.fx	11:30:00 AM	8.7457	8.74411			N/A
5/13/2019	USDNOK.fx	1:30:00 PM	8.736	8.73446			N/A
5/13/2019	USDNOK.fx	3:30:00 PM	8.72641	8.72399			N/A
5/13/2019	USDPLN	9:30:00 AM	3.828	3.8293			N/A
5/13/2019	USDPLN	11:30:00 AM	3.8303	3.8319			N/A
5/13/2019	USDPLN	1:30:00 PM	3.828	3.8296			N/A
5/13/2019	USDPLN	3:30:00 PM	3.8251	3.8264			N/A
5/13/2019	USDPLN.fx	9:30:00 AM	3.82711	3.83018			N/A
5/13/2019	USDPLN.fx	11:30:00 AM	3.82947	3.83262			N/A
5/13/2019	USDPLN.fx	1:30:00 PM	3.82726	3.83024			N/A
5/13/2019	USDPLN.fx	3:30:00 PM	3.82432	3.82723			N/A
5/13/2019	USDRUB	9:30:00 AM					N/A
5/13/2019	USDRUB	11:30:00 AM	65.236	65.604			N/A
5/13/2019	USDRUB	1:30:00 PM	65.073	65.468			N/A
5/13/2019	USDRUB	3:30:00 PM	65.227	65.618			N/A
5/13/2019	USDSEK	9:30:00 AM	9.6367	9.6389			N/A
5/13/2019	USDSEK	11:30:00 AM	9.6438	9.6469			N/A
5/13/2019	USDSEK	1:30:00 PM	9.6357	9.6387			N/A
5/13/2019	USDSEK	3:30:00 PM	9.6276	9.6303			N/A
5/13/2019	USDSEK.fx	9:30:00 AM	9.63924	9.63719			N/A
5/13/2019	USDSEK.fx	11:30:00 AM	9.64633	9.64499			N/A
5/13/2019	USDSEK.fx	1:30:00 PM	9.63842	9.6368			N/A
5/13/2019	USDSEK.fx	3:30:00 PM	9.63023	9.62834			N/A

5/13/2019	USDSGD	9:30:00 AM	1.3679	1.3681			N/A
5/13/2019	USDSGD	11:30:00 AM	1.3684	1.3687			N/A
5/13/2019	USDSGD	1:30:00 PM	1.3675	1.3678			N/A
5/13/2019	USDSGD	3:30:00 PM	1.3682	1.3685			N/A
5/13/2019	USDSGD.fx	9:30:00 AM	1.36781	1.36811			N/A
5/13/2019	USDSGD.fx	11:30:00 AM	1.36829	1.36871			N/A
5/13/2019	USDSGD.fx	1:30:00 PM	1.36744	1.36793			N/A
5/13/2019	USDSGD.fx	3:30:00 PM	1.36808	1.3685			N/A
5/13/2019	USDZAR	9:30:00 AM	14.2358	14.245			N/A
5/13/2019	USDZAR	11:30:00 AM	14.2775	14.2871			N/A
5/13/2019	USDZAR	1:30:00 PM	14.2674	14.2756			N/A
5/13/2019	USDZAR	3:30:00 PM	14.3031	14.3122			N/A
5/13/2019	USDZAR.fx	9:30:00 AM					N/A
5/13/2019	USDZAR.fx	11:30:00 AM					N/A
5/13/2019	USDZAR.fx	1:30:00 PM					N/A
5/13/2019	USDZAR.fx	3:30:00 PM					N/A
5/13/2019	XAUUSD	9:30:00 AM	1283.38	1283.41			N/A
5/13/2019	XAUUSD	11:30:00 AM	1283.04	1283.1			N/A
5/13/2019	XAUUSD	1:30:00 PM	1283.62	1283.96			N/A
5/13/2019	XAUUSD	3:30:00 PM	1287.58	1287.29			N/A
5/13/2019	ZARJPY	9:30:00 AM	7.69	7.7			N/A
5/13/2019	ZARJPY	11:30:00 AM	7.66	7.68			N/A
5/13/2019	ZARJPY	1:30:00 PM	7.67	7.7			N/A
5/13/2019	ZARJPY	3:30:00 PM	7.62	7.64			N/A
5/13/2019	ZARJPY.fx	9:30:00 AM	7.705	7.705			N/A
5/13/2019	ZARJPY.fx	11:30:00 AM	7.68	7.678			N/A
5/13/2019	ZARJPY.fx	1:30:00 PM	7.685	7.686			N/A
5/13/2019	ZARJPY.fx	3:30:00 PM	7.638	7.634			N/A
5/14/2019	#AA	9:30:00 AM					N/A
5/14/2019	#AA	11:30:00 AM					N/A
5/14/2019	#AA	1:30:00 PM					N/A
5/14/2019	#AA	3:30:00 PM					N/A
5/14/2019	#AABA	9:30:00 AM					N/A
5/14/2019	#AABA	11:30:00 AM					N/A

5/14/2019	#AABA	1:30:00 PM					N/A
5/14/2019	#AABA	3:30:00 PM					N/A
5/14/2019	#AAL	9:30:00 AM					N/A
5/14/2019	#AAL	11:30:00 AM					N/A
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5/14/2019	#AAL	3:30:00 PM					N/A
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5/14/2019	#AAPL	11:30:00 AM					N/A
5/14/2019	#AAPL	1:30:00 PM					N/A
5/14/2019	#AAPL	3:30:00 PM					N/A
5/14/2019	#ADBE	9:30:00 AM					N/A
5/14/2019	#ADBE	11:30:00 AM					N/A
5/14/2019	#ADBE	1:30:00 PM					N/A
5/14/2019	#ADBE	3:30:00 PM					N/A
5/14/2019	#AIG	9:30:00 AM					N/A
5/14/2019	#AIG	11:30:00 AM					N/A
5/14/2019	#AIG	1:30:00 PM					N/A
5/14/2019	#AIG	3:30:00 PM					N/A
5/14/2019	#AMD	9:30:00 AM					N/A
5/14/2019	#AMD	11:30:00 AM					N/A
5/14/2019	#AMD	1:30:00 PM					N/A
5/14/2019	#AMD	3:30:00 PM					N/A
5/14/2019	#AMZN	9:30:00 AM					N/A
5/14/2019	#AMZN	11:30:00 AM					N/A
5/14/2019	#AMZN	1:30:00 PM					N/A
5/14/2019	#AMZN	3:30:00 PM					N/A
5/14/2019	#AXP	9:30:00 AM					N/A
5/14/2019	#AXP	11:30:00 AM					N/A
5/14/2019	#AXP	1:30:00 PM					N/A
5/14/2019	#AXP	3:30:00 PM					N/A
5/14/2019	#BA	9:30:00 AM					N/A
5/14/2019	#BA	11:30:00 AM					N/A
5/14/2019	#BA	1:30:00 PM					N/A
5/14/2019	#BA	3:30:00 PM					N/A

5/14/2019	#BABA	9:30:00 AM					N/A
5/14/2019	#BABA	11:30:00 AM					N/A
5/14/2019	#BABA	1:30:00 PM					N/A
5/14/2019	#BABA	3:30:00 PM					N/A
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5/14/2019	#BAC	3:30:00 PM					N/A
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5/14/2019	#BARC	1:30:00 PM					N/A
5/14/2019	#BARC	3:30:00 PM					N/A
5/14/2019	#BHP	9:30:00 AM					N/A
5/14/2019	#BHP	11:30:00 AM					N/A
5/14/2019	#BHP	1:30:00 PM					N/A
5/14/2019	#BHP	3:30:00 PM					N/A
5/14/2019	#BIDU	9:30:00 AM					N/A
5/14/2019	#BIDU	11:30:00 AM					N/A
5/14/2019	#BIDU	1:30:00 PM					N/A
5/14/2019	#BIDU	3:30:00 PM					N/A
5/14/2019	#Bitcoin	9:30:00 AM	7968.3	7982.7			N/A
5/14/2019	#Bitcoin	11:30:00 AM	8112.9	8102.05			N/A
5/14/2019	#Bitcoin	1:30:00 PM	7941.85	7937.7			N/A
5/14/2019	#Bitcoin	3:30:00 PM	8121.3	8131.6			N/A
5/14/2019	#BK	9:30:00 AM					N/A
5/14/2019	#BK	11:30:00 AM					N/A
5/14/2019	#BK	1:30:00 PM					N/A
5/14/2019	#BK	3:30:00 PM					N/A
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5/14/2019	#VZ	11:30:00 AM					N/A
5/14/2019	#VZ	1:30:00 PM					N/A
5/14/2019	#VZ	3:30:00 PM					N/A
5/14/2019	#WDC	9:30:00 AM					N/A
5/14/2019	#WDC	11:30:00 AM					N/A
5/14/2019	#WDC	1:30:00 PM					N/A
5/14/2019	#WDC	3:30:00 PM					N/A
5/14/2019	#WFC	9:30:00 AM					N/A
5/14/2019	#WFC	11:30:00 AM					N/A
5/14/2019	#WFC	1:30:00 PM					N/A
5/14/2019	#WFC	3:30:00 PM					N/A
5/14/2019	#WMT	9:30:00 AM					N/A
5/14/2019	#WMT	11:30:00 AM					N/A
5/14/2019	#WMT	1:30:00 PM					N/A
5/14/2019	#WMT	3:30:00 PM					N/A
5/14/2019	#XOM	9:30:00 AM					N/A
5/14/2019	#XOM	11:30:00 AM					N/A
5/14/2019	#XOM	1:30:00 PM					N/A
5/14/2019	#XOM	3:30:00 PM					N/A
5/14/2019	#YHOO	9:30:00 AM					N/A
5/14/2019	#YHOO	11:30:00 AM					N/A
5/14/2019	#YHOO	1:30:00 PM					N/A
5/14/2019	#YHOO	3:30:00 PM					N/A
5/14/2019	#ZNGA	9:30:00 AM					N/A
5/14/2019	#ZNGA	11:30:00 AM					N/A
5/14/2019	#ZNGA	1:30:00 PM					N/A
5/14/2019	#ZNGA	3:30:00 PM					N/A
5/14/2019	AUDCAD	9:30:00 AM	0.93575	0.93637			N/A
5/14/2019	AUDCAD	11:30:00 AM	0.93476	0.93528			N/A
5/14/2019	AUDCAD	1:30:00 PM	0.93413	0.93465			N/A
5/14/2019	AUDCAD	3:30:00 PM	0.93521	0.93581			N/A

5/14/2019	AUDCAD.fx	9:30:00 AM	0.93609	0.93603			N/A
5/14/2019	AUDCAD.fx	11:30:00 AM	0.93509	0.93493			N/A
5/14/2019	AUDCAD.fx	1:30:00 PM	0.93445	0.93429			N/A
5/14/2019	AUDCAD.fx	3:30:00 PM	0.93555	0.93547			N/A
5/14/2019	AUDCHF	9:30:00 AM	0.69897	0.69963			N/A
5/14/2019	AUDCHF	11:30:00 AM	0.69916	0.69969			N/A
5/14/2019	AUDCHF	1:30:00 PM	0.69961	0.70026			N/A
5/14/2019	AUDCHF	3:30:00 PM	0.69912	0.69966			N/A
5/14/2019	AUDCHF.fx	9:30:00 AM	0.69931	0.69928			N/A
5/14/2019	AUDCHF.fx	11:30:00 AM	0.69949	0.69935			N/A
5/14/2019	AUDCHF.fx	1:30:00 PM	0.69996	0.69991			N/A
5/14/2019	AUDCHF.fx	3:30:00 PM	0.69946	0.69931			N/A
5/14/2019	AUDCZK	9:30:00 AM	15.909	15.924			N/A
5/14/2019	AUDCZK	11:30:00 AM	15.883	15.897			N/A
5/14/2019	AUDCZK	1:30:00 PM	15.902	15.918			N/A
5/14/2019	AUDCZK	3:30:00 PM	15.923	15.933			N/A
5/14/2019	AUDDKK	9:30:00 AM	4.6156	4.6202			N/A
5/14/2019	AUDDKK	11:30:00 AM	4.6119	4.6153			N/A
5/14/2019	AUDDKK	1:30:00 PM	4.6158	4.6204			N/A
5/14/2019	AUDDKK	3:30:00 PM	4.6212	4.6257			N/A
5/14/2019	AUDHKD	9:30:00 AM	5.4507	5.4544			N/A
5/14/2019	AUDHKD	11:30:00 AM	5.4467	5.45			N/A
5/14/2019	AUDHKD	1:30:00 PM	5.446	5.4494			N/A
5/14/2019	AUDHKD	3:30:00 PM	5.4447	5.4485			N/A
5/14/2019	AUDHUF	9:30:00 AM	200.17	200.25			N/A
5/14/2019	AUDHUF	11:30:00 AM	199.87	200.07			N/A
5/14/2019	AUDHUF	1:30:00 PM	200.23	200.4			N/A
5/14/2019	AUDHUF	3:30:00 PM	200.5	200.6			N/A
5/14/2019	AUDJPY	9:30:00 AM	76.1	76.156			N/A
5/14/2019	AUDJPY	11:30:00 AM	76.092	76.133			N/A
5/14/2019	AUDJPY	1:30:00 PM	76.12	76.181			N/A
5/14/2019	AUDJPY	3:30:00 PM	75.995	76.029			N/A
5/14/2019	AUDJPY.fx	9:30:00 AM	76.134	76.121			N/A
5/14/2019	AUDJPY.fx	11:30:00 AM	76.126	76.099			N/A

5/14/2019	AUDJPY.fx	1:30:00 PM	76.153	76.145			N/A
5/14/2019	AUDJPY.fx	3:30:00 PM	76.03	75.994			N/A
5/14/2019	AUDMXN	9:30:00 AM	13.3341	13.3425			N/A
5/14/2019	AUDMXN	11:30:00 AM	13.3184	13.3261			N/A
5/14/2019	AUDMXN	1:30:00 PM	13.304	13.3127			N/A
5/14/2019	AUDMXN	3:30:00 PM	13.3054	13.3144			N/A
5/14/2019	AUDNOK	9:30:00 AM	6.0727	6.077			N/A
5/14/2019	AUDNOK	11:30:00 AM	6.0641	6.0685			N/A
5/14/2019	AUDNOK	1:30:00 PM	6.0597	6.0644			N/A
5/14/2019	AUDNOK	3:30:00 PM	6.0683	6.0719			N/A
5/14/2019	AUDNOK.fx	9:30:00 AM	6.0742	6.0753			N/A
5/14/2019	AUDNOK.fx	11:30:00 AM	6.0658	6.0667			N/A
5/14/2019	AUDNOK.fx	1:30:00 PM	6.0612	6.0626			N/A
5/14/2019	AUDNOK.fx	3:30:00 PM	6.07	6.07			N/A
5/14/2019	AUDNZD	9:30:00 AM	1.05563	1.05645			N/A
5/14/2019	AUDNZD	11:30:00 AM	1.05509	1.05578			N/A
5/14/2019	AUDNZD	1:30:00 PM	1.0544	1.05531			N/A
5/14/2019	AUDNZD	3:30:00 PM	1.0549	1.05572			N/A
5/14/2019	AUDNZD.fx	9:30:00 AM	1.05607	1.056			N/A
5/14/2019	AUDNZD.fx	11:30:00 AM	1.05551	1.05532			N/A
5/14/2019	AUDNZD.fx	1:30:00 PM	1.05485	1.05485			N/A
5/14/2019	AUDNZD.fx	3:30:00 PM	1.05534	1.05527			N/A
5/14/2019	AUDPLN	9:30:00 AM	2.6609	2.664			N/A
5/14/2019	AUDPLN	11:30:00 AM	2.6599	2.6626			N/A
5/14/2019	AUDPLN	1:30:00 PM	2.6633	2.6664			N/A
5/14/2019	AUDPLN	3:30:00 PM	2.6645	2.6677			N/A
5/14/2019	AUDSEK	9:30:00 AM	6.6857	6.6866			N/A
5/14/2019	AUDSEK	11:30:00 AM	6.663	6.6644			N/A
5/14/2019	AUDSEK	1:30:00 PM	6.6623	6.6654			N/A
5/14/2019	AUDSEK	3:30:00 PM	6.6733	6.6753			N/A
5/14/2019	AUDSEK.fx	9:30:00 AM	6.6814	6.6908			N/A
5/14/2019	AUDSEK.fx	11:30:00 AM	6.6585	6.6687			N/A
5/14/2019	AUDSEK.fx	1:30:00 PM	6.6577	6.6698			N/A
5/14/2019	AUDSEK.fx	3:30:00 PM	6.6689	6.6797			N/A

5/14/2019	AUDSGD	9:30:00 AM	0.9509	0.9511			N/A
5/14/2019	AUDSGD	11:30:00 AM	0.9505	0.9508			N/A
5/14/2019	AUDSGD	1:30:00 PM	0.9499	0.9502			N/A
5/14/2019	AUDSGD	3:30:00 PM	0.9503	0.9504			N/A
5/14/2019	AUDSGD.fx	9:30:00 AM	0.95093	0.95096			N/A
5/14/2019	AUDSGD.fx	11:30:00 AM	0.9507	0.95069			N/A
5/14/2019	AUDSGD.fx	1:30:00 PM	0.94998	0.95011			N/A
5/14/2019	AUDSGD.fx	3:30:00 PM	0.95051	0.95054			N/A
5/14/2019	AUDUSD	9:30:00 AM	0.69485	0.69493			N/A
5/14/2019	AUDUSD	11:30:00 AM	0.6944	0.69434			N/A
5/14/2019	AUDUSD	1:30:00 PM	0.69421	0.69428			N/A
5/14/2019	AUDUSD	3:30:00 PM	0.69415	0.69417			N/A
5/14/2019	AUDUSD.fx	9:30:00 AM	0.6949	0.69486			N/A
5/14/2019	AUDUSD.fx	11:30:00 AM	0.69443	0.69429			N/A
5/14/2019	AUDUSD.fx	1:30:00 PM	0.69426	0.69422			N/A
5/14/2019	AUDUSD.fx	3:30:00 PM	0.69421	0.69409			N/A
5/14/2019	AUDZAR	9:30:00 AM	9.9425	9.9516			N/A
5/14/2019	AUDZAR	11:30:00 AM	9.8847	9.8988			N/A
5/14/2019	AUDZAR	1:30:00 PM	9.8839	9.8963			N/A
5/14/2019	AUDZAR	3:30:00 PM	9.8835	9.8948			N/A
5/14/2019	AUS200.i	9:30:00 AM					N/A
5/14/2019	AUS200.i	11:30:00 AM	6237.1	6238.8			N/A
5/14/2019	AUS200.i	1:30:00 PM	6250.4	6253.9			N/A
5/14/2019	AUS200.i	3:30:00 PM	6244.4	6246.9			N/A
5/14/2019	BCHUSD	9:30:00 AM	412.53	413.44			N/A
5/14/2019	BCHUSD	11:30:00 AM	408.8	409.09			N/A
5/14/2019	BCHUSD	1:30:00 PM	401.92	402.09			N/A
5/14/2019	BCHUSD	3:30:00 PM	408.32	409.46			N/A
5/14/2019	CADCHF	9:30:00 AM	0.74672	0.74737			N/A
5/14/2019	CADCHF	11:30:00 AM	0.74769	0.74834			N/A
5/14/2019	CADCHF	1:30:00 PM	0.74885	0.74935			N/A
5/14/2019	CADCHF	3:30:00 PM	0.74738	0.74782			N/A
5/14/2019	CADCHF.fx	9:30:00 AM	0.74706	0.74702			N/A
5/14/2019	CADCHF.fx	11:30:00 AM	0.74803	0.748			N/A

5/14/2019	CADCHF.fx	1:30:00 PM	0.7492	0.74899			N/A
5/14/2019	CADCHF.fx	3:30:00 PM	0.74772	0.74746			N/A
5/14/2019	CADCZK	9:30:00 AM	17.001	17.016			N/A
5/14/2019	CADCZK	11:30:00 AM	16.99	17.007			N/A
5/14/2019	CADCZK	1:30:00 PM	17.023	17.036			N/A
5/14/2019	CADCZK	3:30:00 PM	17.024	17.034			N/A
5/14/2019	CADDDKK	9:30:00 AM	4.932	4.934			N/A
5/14/2019	CADDDKK	11:30:00 AM	4.932	4.936			N/A
5/14/2019	CADDDKK	1:30:00 PM	4.941	4.944			N/A
5/14/2019	CADDDKK	3:30:00 PM	4.941	4.944			N/A
5/14/2019	CADHKD	9:30:00 AM	5.8241	5.828			N/A
5/14/2019	CADHKD	11:30:00 AM	5.8258	5.8297			N/A
5/14/2019	CADHKD	1:30:00 PM	5.8291	5.8325			N/A
5/14/2019	CADHKD	3:30:00 PM	5.8217	5.8245			N/A
5/14/2019	CADHUF	9:30:00 AM	213.91	213.94			N/A
5/14/2019	CADHUF	11:30:00 AM	213.84	213.99			N/A
5/14/2019	CADHUF	1:30:00 PM	214.39	214.44			N/A
5/14/2019	CADHUF	3:30:00 PM	214.41	214.41			N/A
5/14/2019	CADJPY	9:30:00 AM	81.299	81.356			N/A
5/14/2019	CADJPY	11:30:00 AM	81.371	81.429			N/A
5/14/2019	CADJPY	1:30:00 PM	81.462	81.53			N/A
5/14/2019	CADJPY	3:30:00 PM	81.242	81.264			N/A
5/14/2019	CADJPY.fx	9:30:00 AM	81.334	81.321			N/A
5/14/2019	CADJPY.fx	11:30:00 AM	81.404	81.395			N/A
5/14/2019	CADJPY.fx	1:30:00 PM	81.496	81.495			N/A
5/14/2019	CADJPY.fx	3:30:00 PM	81.276	81.229			N/A
5/14/2019	CADMXN	9:30:00 AM	14.2461	14.258			N/A
5/14/2019	CADMXN	11:30:00 AM	14.247	14.2571			N/A
5/14/2019	CADMXN	1:30:00 PM	14.2413	14.2489			N/A
5/14/2019	CADMXN	3:30:00 PM	14.2264	14.2349			N/A
5/14/2019	CADNOK	9:30:00 AM	6.4863	6.488			N/A
5/14/2019	CADNOK	11:30:00 AM	6.4848	6.486			N/A
5/14/2019	CADNOK	1:30:00 PM	6.4846	6.4878			N/A
5/14/2019	CADNOK	3:30:00 PM	6.4857	6.4869			N/A

5/14/2019	CADPLN	9:30:00 AM	2.8427	2.8446			N/A
5/14/2019	CADPLN	11:30:00 AM	2.8452	2.8469			N/A
5/14/2019	CADPLN	1:30:00 PM	2.8508	2.8522			N/A
5/14/2019	CADPLN	3:30:00 PM	2.8486	2.8505			N/A
5/14/2019	CADSEK	9:30:00 AM	7.14	7.1419			N/A
5/14/2019	CADSEK	11:30:00 AM	7.124	7.1257			N/A
5/14/2019	CADSEK	1:30:00 PM	7.1294	7.1313			N/A
5/14/2019	CADSEK	3:30:00 PM	7.1319	7.1343			N/A
5/14/2019	CADSGD	9:30:00 AM	1.0155	1.0157			N/A
5/14/2019	CADSGD	11:30:00 AM	1.016	1.0163			N/A
5/14/2019	CADSGD	1:30:00 PM	1.016	1.0162			N/A
5/14/2019	CADSGD	3:30:00 PM	1.0154	1.0157			N/A
5/14/2019	CADZAR	9:30:00 AM	10.623	10.6338			N/A
5/14/2019	CADZAR	11:30:00 AM	10.5733	10.5903			N/A
5/14/2019	CADZAR	1:30:00 PM	10.5779	10.5922			N/A
5/14/2019	CADZAR	3:30:00 PM	10.5663	10.5802			N/A
5/14/2019	CHFCZK	9:30:00 AM	22.761	22.773			N/A
5/14/2019	CHFCZK	11:30:00 AM	22.719	22.734			N/A
5/14/2019	CHFCZK	1:30:00 PM	22.729	22.743			N/A
5/14/2019	CHFCZK	3:30:00 PM	22.779	22.781			N/A
5/14/2019	CHFDKK	9:30:00 AM	6.602	6.604			N/A
5/14/2019	CHFDKK	11:30:00 AM	6.594	6.597			N/A
5/14/2019	CHFDKK	1:30:00 PM	6.596	6.599			N/A
5/14/2019	CHFDKK	3:30:00 PM	6.61	6.612			N/A
5/14/2019	CHFDKK.fx	9:30:00 AM	6.6004	6.6063			N/A
5/14/2019	CHFDKK.fx	11:30:00 AM	6.593	6.5988			N/A
5/14/2019	CHFDKK.fx	1:30:00 PM	6.595	6.6006			N/A
5/14/2019	CHFDKK.fx	3:30:00 PM	6.6086	6.6132			N/A
5/14/2019	CHFHKD	9:30:00 AM	7.7965	7.8004			N/A
5/14/2019	CHFHKD	11:30:00 AM	7.7899	7.7935			N/A
5/14/2019	CHFHKD	1:30:00 PM	7.7836	7.7863			N/A
5/14/2019	CHFHKD	3:30:00 PM	7.7874	7.7913			N/A
5/14/2019	CHFHUF	9:30:00 AM	286.29	286.44			N/A
5/14/2019	CHFHUF	11:30:00 AM	285.87	286.18			N/A

5/14/2019	CHFCHF	1:30:00 PM	286.09	286.39			N/A
5/14/2019	CHFCHF	3:30:00 PM	286.78	286.9			N/A
5/14/2019	CHFJPY	9:30:00 AM	108.832	108.893			N/A
5/14/2019	CHFJPY	11:30:00 AM	108.794	108.846			N/A
5/14/2019	CHFJPY	1:30:00 PM	108.771	108.816			N/A
5/14/2019	CHFJPY	3:30:00 PM	108.668	108.702			N/A
5/14/2019	CHFJPY.fx	9:30:00 AM	108.864	108.857			N/A
5/14/2019	CHFJPY.fx	11:30:00 AM	108.826	108.811			N/A
5/14/2019	CHFJPY.fx	1:30:00 PM	108.804	108.78			N/A
5/14/2019	CHFJPY.fx	3:30:00 PM	108.705	108.667			N/A
5/14/2019	CHFUSD	9:30:00 AM	19.0701	19.0851			N/A
5/14/2019	CHFUSD	11:30:00 AM	19.0467	19.0615			N/A
5/14/2019	CHFUSD	1:30:00 PM	19.0122	19.0248			N/A
5/14/2019	CHFUSD	3:30:00 PM	19.0302	19.0435			N/A
5/14/2019	CHFGBP	9:30:00 AM	8.684	8.6895			N/A
5/14/2019	CHFGBP	11:30:00 AM	8.6705	8.6753			N/A
5/14/2019	CHFGBP	1:30:00 PM	8.6573	8.6637			N/A
5/14/2019	CHFGBP	3:30:00 PM	8.6775	8.6807			N/A
5/14/2019	CHFGBP.fx	9:30:00 AM	8.68747	8.68605			N/A
5/14/2019	CHFGBP.fx	11:30:00 AM	8.67416	8.67169			N/A
5/14/2019	CHFGBP.fx	1:30:00 PM	8.66102	8.66			N/A
5/14/2019	CHFGBP.fx	3:30:00 PM	8.68138	8.67699			N/A
5/14/2019	CHFPLN	9:30:00 AM	3.806	3.8088			N/A
5/14/2019	CHFPLN	11:30:00 AM	3.8034	3.8064			N/A
5/14/2019	CHFPLN	1:30:00 PM	3.806	3.8084			N/A
5/14/2019	CHFPLN	3:30:00 PM	3.8108	3.8132			N/A
5/14/2019	CHFPLN.fx	9:30:00 AM	3.80346	3.81121			N/A
5/14/2019	CHFPLN.fx	11:30:00 AM	3.80104	3.80855			N/A
5/14/2019	CHFPLN.fx	1:30:00 PM	3.80372	3.81073			N/A
5/14/2019	CHFPLN.fx	3:30:00 PM	3.80846	3.81545			N/A
5/14/2019	CHFSEK	9:30:00 AM	9.5595	9.5604			N/A
5/14/2019	CHFSEK	11:30:00 AM	9.5252	9.5259			N/A
5/14/2019	CHFSEK	1:30:00 PM	9.5175	9.5212			N/A
5/14/2019	CHFSEK	3:30:00 PM	9.5423	9.5423			N/A

5/14/2019	CHFSGD	9:30:00 AM	1.3597	1.3601			N/A
5/14/2019	CHFSGD	11:30:00 AM	1.3591	1.3594			N/A
5/14/2019	CHFSGD	1:30:00 PM	1.3572	1.3575			N/A
5/14/2019	CHFSGD	3:30:00 PM	1.3589	1.3593			N/A
5/14/2019	CHFSGD.fx	9:30:00 AM	1.35983	1.35989			N/A
5/14/2019	CHFSGD.fx	11:30:00 AM	1.35932	1.35926			N/A
5/14/2019	CHFSGD.fx	1:30:00 PM	1.35742	1.35727			N/A
5/14/2019	CHFSGD.fx	3:30:00 PM	1.35911	1.35906			N/A
5/14/2019	CHFZAR	9:30:00 AM	14.2243	14.2297			N/A
5/14/2019	CHFZAR	11:30:00 AM	14.1432	14.1544			N/A
5/14/2019	CHFZAR	1:30:00 PM	14.1277	14.1378			N/A
5/14/2019	CHFZAR	3:30:00 PM	14.1406	14.1456			N/A
5/14/2019	CZKJPY	9:30:00 AM					N/A
5/14/2019	CZKJPY	11:30:00 AM					N/A
5/14/2019	CZKJPY	1:30:00 PM	4.784	4.788			N/A
5/14/2019	CZKJPY	3:30:00 PM	4.771	4.772			N/A
5/14/2019	DAX30.i	9:30:00 AM	11914.95	11909.2			N/A
5/14/2019	DAX30.i	11:30:00 AM	11906.45	11900.7			N/A
5/14/2019	DAX30.i	1:30:00 PM	11932.2	11929.95			N/A
5/14/2019	DAX30.i	3:30:00 PM	11933.45	11925.45			N/A
5/14/2019	DJ30.i	9:30:00 AM					N/A
5/14/2019	DJ30.i	11:30:00 AM					N/A
5/14/2019	DJ30.i	1:30:00 PM					N/A
5/14/2019	DJ30.i	3:30:00 PM					N/A
5/14/2019	DKKJPY	9:30:00 AM					N/A
5/14/2019	DKKJPY	11:30:00 AM	16.5	16.52			N/A
5/14/2019	DKKJPY	1:30:00 PM					N/A
5/14/2019	DKKJPY	3:30:00 PM	16.44	16.46			N/A
5/14/2019	EURAUD	9:30:00 AM	1.61631	1.61665			N/A
5/14/2019	EURAUD	11:30:00 AM	1.61817	1.6182			N/A
5/14/2019	EURAUD	1:30:00 PM	1.61657	1.61697			N/A
5/14/2019	EURAUD	3:30:00 PM	1.61464	1.61503			N/A
5/14/2019	EURAUD.fx	9:30:00 AM	1.6165	1.61643			N/A
5/14/2019	EURAUD.fx	11:30:00 AM	1.61837	1.61798			N/A

5/14/2019	EURAUD.fx	1:30:00 PM	1.61678	1.61677			N/A
5/14/2019	EURAUD.fx	3:30:00 PM	1.61486	1.61482			N/A
5/14/2019	EURCAD	9:30:00 AM	1.51333	1.51406			N/A
5/14/2019	EURCAD	11:30:00 AM	1.51318	1.51403			N/A
5/14/2019	EURCAD	1:30:00 PM	1.51104	1.51142			N/A
5/14/2019	EURCAD	3:30:00 PM	1.51095	1.51161			N/A
5/14/2019	EURCAD.fx	9:30:00 AM	1.51375	1.51365			N/A
5/14/2019	EURCAD.fx	11:30:00 AM	1.51358	1.51361			N/A
5/14/2019	EURCAD.fx	1:30:00 PM	1.51145	1.51098			N/A
5/14/2019	EURCAD.fx	3:30:00 PM	1.51141	1.51118			N/A
5/14/2019	EURCHF	9:30:00 AM	1.13079	1.13084			N/A
5/14/2019	EURCHF	11:30:00 AM	1.1322	1.13223			N/A
5/14/2019	EURCHF	1:30:00 PM	1.13205	1.13209			N/A
5/14/2019	EURCHF	3:30:00 PM	1.1299	1.12976			N/A
5/14/2019	EURCHF.fx	9:30:00 AM	1.13084	1.13078			N/A
5/14/2019	EURCHF.fx	11:30:00 AM	1.13226	1.13218			N/A
5/14/2019	EURCHF.fx	1:30:00 PM	1.13211	1.13202			N/A
5/14/2019	EURCHF.fx	3:30:00 PM	1.12996	1.12969			N/A
5/14/2019	EURCZK	9:30:00 AM	25.724	25.759			N/A
5/14/2019	EURCZK	11:30:00 AM					N/A
5/14/2019	EURCZK	1:30:00 PM	25.716	25.753			N/A
5/14/2019	EURCZK	3:30:00 PM	25.72	25.748			N/A
5/14/2019	EURDKK	9:30:00 AM	7.4656	7.4668			N/A
5/14/2019	EURDKK	11:30:00 AM	7.467	7.4683			N/A
5/14/2019	EURDKK	1:30:00 PM	7.4674	7.4683			N/A
5/14/2019	EURDKK	3:30:00 PM	7.4683	7.4693			N/A
5/14/2019	EURGBP	9:30:00 AM	0.86754	0.86762			N/A
5/14/2019	EURGBP	11:30:00 AM	0.86876	0.86863			N/A
5/14/2019	EURGBP	1:30:00 PM	0.867	0.86701		20	N/A
5/14/2019	EURGBP	3:30:00 PM	0.86686	0.86687			N/A
5/14/2019	EURGBP.fx	9:30:00 AM	0.86758	0.86758			N/A
5/14/2019	EURGBP.fx	11:30:00 AM	0.8688	0.86865			N/A
5/14/2019	EURGBP.fx	1:30:00 PM	0.86703	0.86696			N/A
5/14/2019	EURGBP.fx	3:30:00 PM	0.8669	0.86681			N/A

5/14/2019	EURHKD	9:30:00 AM	8.8173	8.8223			N/A
5/14/2019	EURHKD	11:30:00 AM	8.8198	8.825			N/A
5/14/2019	EURHKD	1:30:00 PM	8.8113	8.8149			N/A
5/14/2019	EURHKD	3:30:00 PM	8.7995	8.8029			N/A
5/14/2019	EURHKD.fx	9:30:00 AM	8.82013	8.81948			N/A
5/14/2019	EURHKD.fx	11:30:00 AM	8.82263	8.82217			N/A
5/14/2019	EURHKD.fx	1:30:00 PM	8.81416	8.81196			N/A
5/14/2019	EURHKD.fx	3:30:00 PM	8.80234	8.80002			N/A
5/14/2019	EURHUF	9:30:00 AM	323.67	324.33			N/A
5/14/2019	EURHUF	11:30:00 AM	323.65	324.15			N/A
5/14/2019	EURHUF	1:30:00 PM	323.81	324.48			N/A
5/14/2019	EURHUF	3:30:00 PM	323.93	324.28			N/A
5/14/2019	EURHUF.fx	9:30:00 AM	323.938	324.049			N/A
5/14/2019	EURHUF.fx	11:30:00 AM	323.939	324.123			N/A
5/14/2019	EURHUF.fx	1:30:00 PM	324.082	324.21			N/A
5/14/2019	EURHUF.fx	3:30:00 PM	324.211	324.294			N/A
5/14/2019	EURJPY	9:30:00 AM	123.106	123.102			N/A
5/14/2019	EURJPY	11:30:00 AM	123.214	123.205			N/A
5/14/2019	EURJPY	1:30:00 PM	123.173	123.148			N/A
5/14/2019	EURJPY	3:30:00 PM	122.825	122.763			N/A
5/14/2019	EURJPY.fx	9:30:00 AM	123.108	123.097			N/A
5/14/2019	EURJPY.fx	11:30:00 AM	123.214	123.201			N/A
5/14/2019	EURJPY.fx	1:30:00 PM	123.175	123.144			N/A
5/14/2019	EURJPY.fx	3:30:00 PM	122.826	122.758			N/A
5/14/2019	EURMXN	9:30:00 AM	21.5678	21.5867			N/A
5/14/2019	EURMXN	11:30:00 AM	21.5671	21.5862			N/A
5/14/2019	EURMXN	1:30:00 PM	21.5232	21.5407			N/A
5/14/2019	EURMXN	3:30:00 PM	21.503	21.5191			N/A
5/14/2019	EURMXN.f	9:30:00 AM	21.5778	21.5773			N/A
5/14/2019	EURMXN.f	11:30:00 AM	21.5762	21.5769			N/A
5/14/2019	EURMXN.f	1:30:00 PM	21.5319	21.5321			N/A
5/14/2019	EURMXN.f	3:30:00 PM	21.5122	21.5099			N/A
5/14/2019	EURNOK	9:30:00 AM	9.818	9.828			N/A
5/14/2019	EURNOK	11:30:00 AM	9.8153	9.8245			N/A

5/14/2019	EURNOK	1:30:00 PM	9.7987	9.8096			N/A
5/14/2019	EURNOK	3:30:00 PM	9.8015	9.8106			N/A
5/14/2019	EURNOK.fx	9:30:00 AM	9.82341	9.82259			N/A
5/14/2019	EURNOK.fx	11:30:00 AM	9.82083	9.81877			N/A
5/14/2019	EURNOK.fx	1:30:00 PM	9.80411	9.80397			N/A
5/14/2019	EURNOK.fx	3:30:00 PM	9.80691	9.80517			N/A
5/14/2019	EURNZD	9:30:00 AM	1.70722	1.70796			N/A
5/14/2019	EURNZD	11:30:00 AM	1.70808	1.7089			N/A
5/14/2019	EURNZD	1:30:00 PM	1.70569	1.70647			N/A
5/14/2019	EURNZD	3:30:00 PM	1.70446	1.70515			N/A
5/14/2019	EURNZD.fx	9:30:00 AM	1.70763	1.70753			N/A
5/14/2019	EURNZD.fx	11:30:00 AM	1.70852	1.70845			N/A
5/14/2019	EURNZD.fx	1:30:00 PM	1.70612	1.70604			N/A
5/14/2019	EURNZD.fx	3:30:00 PM	1.70487	1.70472			N/A
5/14/2019	EURPLN	9:30:00 AM	4.3038	4.3069			N/A
5/14/2019	EURPLN	11:30:00 AM	4.3064	4.3096			N/A
5/14/2019	EURPLN	1:30:00 PM	4.3085	4.3114			N/A
5/14/2019	EURPLN	3:30:00 PM	4.3053	4.3084			N/A
5/14/2019	EURPLN.fx	9:30:00 AM	4.30308	4.30772			N/A
5/14/2019	EURPLN.fx	11:30:00 AM	4.30577	4.31007			N/A
5/14/2019	EURPLN.fx	1:30:00 PM	4.30785	4.31202			N/A
5/14/2019	EURPLN.fx	3:30:00 PM	4.30467	4.30908			N/A
5/14/2019	EURRUB	9:30:00 AM					N/A
5/14/2019	EURRUB	11:30:00 AM	73.155	73.578			N/A
5/14/2019	EURRUB	1:30:00 PM	73	73.392			N/A
5/14/2019	EURRUB	3:30:00 PM	72.837	73.266			N/A
5/14/2019	EURSEK	9:30:00 AM	10.8116	10.8119			N/A
5/14/2019	EURSEK	11:30:00 AM	10.7866	10.7861			N/A
5/14/2019	EURSEK	1:30:00 PM	10.7751	10.7803			N/A
5/14/2019	EURSEK	3:30:00 PM	10.7816	10.7832			N/A
5/14/2019	EURSEK.fx	9:30:00 AM	10.81354	10.81015			N/A
5/14/2019	EURSEK.fx	11:30:00 AM	10.78824	10.78451			N/A
5/14/2019	EURSEK.fx	1:30:00 PM	10.77674	10.77872			N/A
5/14/2019	EURSEK.fx	3:30:00 PM	10.78326	10.7816			N/A

5/14/2019	EURSGD	9:30:00 AM	1.5373	1.5382			N/A
5/14/2019	EURSGD	11:30:00 AM	1.5386	1.5394			N/A
5/14/2019	EURSGD	1:30:00 PM	1.5362	1.537			N/A
5/14/2019	EURSGD	3:30:00 PM	1.5352	1.5358			N/A
5/14/2019	EURSGD.fx	9:30:00 AM	1.53773	1.53775			N/A
5/14/2019	EURSGD.fx	11:30:00 AM	1.53898	1.53896			N/A
5/14/2019	EURSGD.fx	1:30:00 PM	1.53661	1.53655			N/A
5/14/2019	EURSGD.fx	3:30:00 PM	1.53559	1.53541			N/A
5/14/2019	EURUSD	9:30:00 AM	1.12349	1.12357			N/A
5/14/2019	EURUSD	11:30:00 AM	1.12385	1.12394			N/A
5/14/2019	EURUSD	1:30:00 PM	1.12276	1.12265			N/A
5/14/2019	EURUSD	3:30:00 PM	1.12124	1.12109			N/A
5/14/2019	EURUSD.fx	9:30:00 AM	1.12369	1.12367			N/A
5/14/2019	EURUSD.fx	11:30:00 AM	1.12404	1.12403			N/A
5/14/2019	EURUSD.fx	1:30:00 PM	1.12296	1.12272			N/A
5/14/2019	EURUSD.fx	3:30:00 PM	1.12144	1.12118			N/A
5/14/2019	EURZAR	9:30:00 AM	16.0867	16.1026			N/A
5/14/2019	EURZAR	11:30:00 AM	16.0166	16.0366			N/A
5/14/2019	EURZAR	1:30:00 PM	15.9928	16.0089			N/A
5/14/2019	EURZAR	3:30:00 PM	15.9763	15.9945			N/A
5/14/2019	EURZAR.fx	9:30:00 AM	16.08598	16.10361			N/A
5/14/2019	EURZAR.fx	11:30:00 AM	16.01587	16.03726			N/A
5/14/2019	EURZAR.fx	1:30:00 PM	15.99212	16.00972			N/A
5/14/2019	EURZAR.fx	3:30:00 PM	15.97568	15.99559			N/A
5/14/2019	GBPAUD	9:30:00 AM	1.86365	1.86415			N/A
5/14/2019	GBPAUD	11:30:00 AM	1.86332	1.86354			N/A
5/14/2019	GBPAUD	1:30:00 PM	1.86518	1.86588			N/A
5/14/2019	GBPAUD	3:30:00 PM	1.86332	1.86383			N/A
5/14/2019	GBPAUD.fx	9:30:00 AM	1.86403	1.86376			N/A
5/14/2019	GBPAUD.fx	11:30:00 AM	1.86371	1.86327			N/A
5/14/2019	GBPAUD.fx	1:30:00 PM	1.86559	1.86547			N/A
5/14/2019	GBPAUD.fx	3:30:00 PM	1.86374	1.86344			N/A
5/14/2019	GBPCAD	9:30:00 AM	1.7444	1.74505			N/A
5/14/2019	GBPCAD	11:30:00 AM	1.74227	1.74255			N/A

5/14/2019	GBPCAD	1:30:00 PM	1.74293	1.74338			N/A
5/14/2019	GBPCAD	3:30:00 PM	1.74325	1.74367			N/A
5/14/2019	GBPCAD.fx	9:30:00 AM	1.74478	1.74467			N/A
5/14/2019	GBPCAD.fx	11:30:00 AM	1.74257	1.74215			N/A
5/14/2019	GBPCAD.fx	1:30:00 PM	1.74331	1.74296			N/A
5/14/2019	GBPCAD.fx	3:30:00 PM	1.74365	1.74327			N/A
5/14/2019	GBPCHF	9:30:00 AM	1.30323	1.3036			N/A
5/14/2019	GBPCHF	11:30:00 AM	1.30342	1.30343			N/A
5/14/2019	GBPCHF	1:30:00 PM	1.30562	1.30592			N/A
5/14/2019	GBPCHF	3:30:00 PM	1.30335	1.30327			N/A
5/14/2019	GBPCHF.fx	9:30:00 AM	1.30341	1.30341			N/A
5/14/2019	GBPCHF.fx	11:30:00 AM	1.30346	1.30323			N/A
5/14/2019	GBPCHF.fx	1:30:00 PM	1.30583	1.30571			N/A
5/14/2019	GBPCHF.fx	3:30:00 PM	1.30356	1.30306			N/A
5/14/2019	GBPCZK	9:30:00 AM	29.66	29.679			N/A
5/14/2019	GBPCZK	11:30:00 AM	29.608	29.623			N/A
5/14/2019	GBPCZK	1:30:00 PM	29.673	29.692			N/A
5/14/2019	GBPCZK	3:30:00 PM	29.678	29.688			N/A
5/14/2019	GBPDKK	9:30:00 AM	8.602	8.613			N/A
5/14/2019	GBPDKK	11:30:00 AM	8.593	8.602			N/A
5/14/2019	GBPDKK	1:30:00 PM	8.611	8.621			N/A
5/14/2019	GBPDKK	3:30:00 PM	8.612	8.621			N/A
5/14/2019	GBPDKK.fx	9:30:00 AM	8.6006	8.6136			N/A
5/14/2019	GBPDKK.fx	11:30:00 AM	8.5911	8.6024			N/A
5/14/2019	GBPDKK.fx	1:30:00 PM	8.6091	8.6212			N/A
5/14/2019	GBPDKK.fx	3:30:00 PM	8.6103	8.6219			N/A
5/14/2019	GBPHKD	9:30:00 AM	10.1605	10.1656			N/A
5/14/2019	GBPHKD	11:30:00 AM	10.1518	10.1549			N/A
5/14/2019	GBPHKD	1:30:00 PM	10.1614	10.1653			N/A
5/14/2019	GBPHKD	3:30:00 PM	10.1475	10.1523			N/A
5/14/2019	GBPHUF	9:30:00 AM	373.11	373.26			N/A
5/14/2019	GBPHUF	11:30:00 AM	372.49	372.87			N/A
5/14/2019	GBPHUF	1:30:00 PM	373.53	373.86			N/A
5/14/2019	GBPHUF	3:30:00 PM	373.63	373.85			N/A

5/14/2019	GBPJPY	9:30:00 AM	141.875	141.913			N/A
5/14/2019	GBPJPY	11:30:00 AM	141.85	141.835			N/A
5/14/2019	GBPJPY	1:30:00 PM	142.052	142.073			N/A
5/14/2019	GBPJPY	3:30:00 PM	141.675	141.635			N/A
5/14/2019	GBPJPY.fx	9:30:00 AM	141.895	141.894			N/A
5/14/2019	GBPJPY.fx	11:30:00 AM	141.865	141.816			N/A
5/14/2019	GBPJPY.fx	1:30:00 PM	142.071	142.052			N/A
5/14/2019	GBPJPY.fx	3:30:00 PM	141.695	141.615			N/A
5/14/2019	GBPMXN	9:30:00 AM	24.8551	24.8693			N/A
5/14/2019	GBPMXN	11:30:00 AM	24.8242	24.8331			N/A
5/14/2019	GBPMXN	1:30:00 PM	24.8226	24.8329			N/A
5/14/2019	GBPMXN	3:30:00 PM	24.8004	24.8107			N/A
5/14/2019	GBPNOK	9:30:00 AM	11.3178	11.3266			N/A
5/14/2019	GBPNOK	11:30:00 AM	11.2993	11.3076			N/A
5/14/2019	GBPNOK	1:30:00 PM	11.3038	11.3137			N/A
5/14/2019	GBPNOK	3:30:00 PM	11.3072	11.3156			N/A
5/14/2019	GBPNOK.fx	9:30:00 AM	11.32263	11.32182			N/A
5/14/2019	GBPNOK.fx	11:30:00 AM	11.30407	11.30418			N/A
5/14/2019	GBPNOK.fx	1:30:00 PM	11.30881	11.30873			N/A
5/14/2019	GBPNOK.fx	3:30:00 PM	11.312	11.31092			N/A
5/14/2019	GBPNZD	9:30:00 AM	1.96796	1.96864			N/A
5/14/2019	GBPNZD	11:30:00 AM	1.96655	1.96692			N/A
5/14/2019	GBPNZD	1:30:00 PM	1.96751	1.96814			N/A
5/14/2019	GBPNZD	3:30:00 PM	1.96647	1.96684			N/A
5/14/2019	GBPNZD.fx	9:30:00 AM	1.96832	1.96827			N/A
5/14/2019	GBPNZD.fx	11:30:00 AM	1.9669	1.96651			N/A
5/14/2019	GBPNZD.fx	1:30:00 PM	1.96786	1.96777			N/A
5/14/2019	GBPNZD.fx	3:30:00 PM	1.96684	1.96647			N/A
5/14/2019	GBPPLN	9:30:00 AM	4.9618	4.9633			N/A
5/14/2019	GBPPLN	11:30:00 AM	4.9591	4.9594			N/A
5/14/2019	GBPPLN	1:30:00 PM	4.9706	4.9719			N/A
5/14/2019	GBPPLN	3:30:00 PM	4.9678	4.9689			N/A
5/14/2019	GBPPLN.fx	9:30:00 AM	4.95944	4.96554			N/A
5/14/2019	GBPPLN.fx	11:30:00 AM	4.95652	4.96142			N/A

5/14/2019	GBPPLN.fx	1:30:00 PM	4.96846	4.97399			N/A
5/14/2019	GBPPLN.fx	3:30:00 PM	4.96574	4.97096			N/A
5/14/2019	GBPSEK	9:30:00 AM	12.4601	12.4647			N/A
5/14/2019	GBPSEK	11:30:00 AM	12.4164	12.4185			N/A
5/14/2019	GBPSEK	1:30:00 PM	12.4272	12.4353			N/A
5/14/2019	GBPSEK	3:30:00 PM	12.4345	12.441			N/A
5/14/2019	GBPSEK.fx	9:30:00 AM	12.4566	12.46843			N/A
5/14/2019	GBPSEK.fx	11:30:00 AM	12.41231	12.42387			N/A
5/14/2019	GBPSEK.fx	1:30:00 PM	12.42349	12.43901			N/A
5/14/2019	GBPSEK.fx	3:30:00 PM	12.43059	12.44468			N/A
5/14/2019	GBPSGD	9:30:00 AM	1.7721	1.7729			N/A
5/14/2019	GBPSGD	11:30:00 AM	1.7715	1.7719			N/A
5/14/2019	GBPSGD	1:30:00 PM	1.7721	1.7727			N/A
5/14/2019	GBPSGD	3:30:00 PM	1.7711	1.7715			N/A
5/14/2019	GBPSGD.fx	9:30:00 AM	1.77034	1.77469			N/A
5/14/2019	GBPSGD.fx	11:30:00 AM	1.76955	1.77366			N/A
5/14/2019	GBPSGD.fx	1:30:00 PM	1.77023	1.7745			N/A
5/14/2019	GBPSGD.fx	3:30:00 PM	1.76935	1.77333			N/A
5/14/2019	GBPUSD	9:30:00 AM	1.29518	1.29517			N/A
5/14/2019	GBPUSD	11:30:00 AM	1.29427	1.29374			N/A
5/14/2019	GBPUSD	1:30:00 PM	1.29521	1.29514			N/A
5/14/2019	GBPUSD	3:30:00 PM	1.29371	1.2934			N/A
5/14/2019	GBPUSD.fx	9:30:00 AM	1.29524	1.29511			N/A
5/14/2019	GBPUSD.fx	11:30:00 AM	1.29412	1.29367			N/A
5/14/2019	GBPUSD.fx	1:30:00 PM	1.29527	1.29508			N/A
5/14/2019	GBPUSD.fx	3:30:00 PM	1.29377	1.29333			N/A
5/14/2019	GBPZAR	9:30:00 AM	18.5384	18.5646			N/A
5/14/2019	GBPZAR	11:30:00 AM	18.4391	18.4609			N/A
5/14/2019	GBPZAR	1:30:00 PM	18.4418	18.4679			N/A
5/14/2019	GBPZAR	3:30:00 PM	18.4278	18.4543			N/A
5/14/2019	GBPZAR.fx	9:30:00 AM	18.5453	18.5575			N/A
5/14/2019	GBPZAR.fx	11:30:00 AM	18.4425	18.4537			N/A
5/14/2019	GBPZAR.fx	1:30:00 PM	18.4489	18.4609			N/A
5/14/2019	GBPZAR.fx	3:30:00 PM	18.4344	18.4481			N/A

5/14/2019	GOLD	9:30:00 AM	1298.51	1298.83			N/A
5/14/2019	GOLD	11:30:00 AM	1297.75	1297.97			N/A
5/14/2019	GOLD	1:30:00 PM	1297.51	1297.82			N/A
5/14/2019	GOLD	3:30:00 PM	1299.21	1299.26			N/A
5/14/2019	HKDJPY	9:30:00 AM	13.96	13.97			N/A
5/14/2019	HKDJPY	11:30:00 AM	13.97	13.97			N/A
5/14/2019	HKDJPY	1:30:00 PM	13.98	13.99			N/A
5/14/2019	HKDJPY	3:30:00 PM	13.95	13.96			N/A
5/14/2019	HKDJPY.fx	9:30:00 AM	13.954	13.96			N/A
5/14/2019	HKDJPY.fx	11:30:00 AM	13.962	13.967			N/A
5/14/2019	HKDJPY.fx	1:30:00 PM	13.97	13.977			N/A
5/14/2019	HKDJPY.fx	3:30:00 PM	13.949	13.952			N/A
5/14/2019	HUFJPY	9:30:00 AM	0.3804	0.3807			N/A
5/14/2019	HUFJPY	11:30:00 AM	0.3805	0.3808			N/A
5/14/2019	HUFJPY	1:30:00 PM	0.3803	0.3805			N/A
5/14/2019	HUFJPY	3:30:00 PM	0.3792	0.3795			N/A
5/14/2019	JP225.i	9:30:00 AM	20998.86	21013.86			N/A
5/14/2019	JP225.i	11:30:00 AM	21031.36	21036.36			N/A
5/14/2019	JP225.i	1:30:00 PM	21103.86	21118.86			N/A
5/14/2019	JP225.i	3:30:00 PM	21058.86	21066.36			N/A
5/14/2019	MXNJPY	9:30:00 AM	5.71	5.71			N/A
5/14/2019	MXNJPY	11:30:00 AM	5.71	5.72			N/A
5/14/2019	MXNJPY	1:30:00 PM	5.72	5.73			N/A
5/14/2019	MXNJPY	3:30:00 PM	5.71	5.72			N/A
5/14/2019	NASDAQ.i	9:30:00 AM					N/A
5/14/2019	NASDAQ.i	11:30:00 AM					N/A
5/14/2019	NASDAQ.i	1:30:00 PM					N/A
5/14/2019	NASDAQ.i	3:30:00 PM					N/A
5/14/2019	NOKJPY	9:30:00 AM	12.52	12.55			N/A
5/14/2019	NOKJPY	11:30:00 AM	12.54	12.56			N/A
5/14/2019	NOKJPY	1:30:00 PM	12.54	12.58			N/A
5/14/2019	NOKJPY	3:30:00 PM	12.52	12.54			N/A
5/14/2019	NOKJPY.fx	9:30:00 AM	12.531	12.534			N/A
5/14/2019	NOKJPY.fx	11:30:00 AM	12.547	12.548			N/A

5/14/2019	NOKJPY.fx	1:30:00 PM	12.559	12.564			N/A
5/14/2019	NOKJPY.fx	3:30:00 PM	12.524	12.522			N/A
5/14/2019	NZDCAD	9:30:00 AM	0.88614	0.88671			N/A
5/14/2019	NZDCAD	11:30:00 AM	0.88558	0.8863			N/A
5/14/2019	NZDCAD	1:30:00 PM	0.88556	0.88606			N/A
5/14/2019	NZDCAD	3:30:00 PM	0.88624	0.88672			N/A
5/14/2019	NZDCAD.fx	9:30:00 AM	0.88647	0.88639			N/A
5/14/2019	NZDCAD.fx	11:30:00 AM	0.88591	0.88596			N/A
5/14/2019	NZDCAD.fx	1:30:00 PM	0.88589	0.88571			N/A
5/14/2019	NZDCAD.fx	3:30:00 PM	0.88658	0.88638			N/A
5/14/2019	NZDCHF	9:30:00 AM	0.66188	0.66256			N/A
5/14/2019	NZDCHF	11:30:00 AM	0.66237	0.66303			N/A
5/14/2019	NZDCHF	1:30:00 PM	0.66318	0.66389			N/A
5/14/2019	NZDCHF	3:30:00 PM	0.66241	0.66304			N/A
5/14/2019	NZDCHF.fx	9:30:00 AM	0.66221	0.66222			N/A
5/14/2019	NZDCHF.fx	11:30:00 AM	0.66271	0.66268			N/A
5/14/2019	NZDCHF.fx	1:30:00 PM	0.66353	0.66353			N/A
5/14/2019	NZDCHF.fx	3:30:00 PM	0.66275	0.66267			N/A
5/14/2019	NZDCZK	9:30:00 AM	15.068	15.079			N/A
5/14/2019	NZDCZK	11:30:00 AM	15.051	15.063			N/A
5/14/2019	NZDCZK	1:30:00 PM	15.078	15.089			N/A
5/14/2019	NZDCZK	3:30:00 PM	15.091	15.096			N/A
5/14/2019	NZDDKK	9:30:00 AM	4.37	4.374			N/A
5/14/2019	NZDDKK	11:30:00 AM	4.368	4.372			N/A
5/14/2019	NZDDKK	1:30:00 PM	4.376	4.379			N/A
5/14/2019	NZDDKK	3:30:00 PM	4.379	4.382			N/A
5/14/2019	NZDHKD	9:30:00 AM	5.1614	5.1643			N/A
5/14/2019	NZDHKD	11:30:00 AM	5.1604	5.1633			N/A
5/14/2019	NZDHKD	1:30:00 PM	5.1629	5.1653			N/A
5/14/2019	NZDHKD	3:30:00 PM	5.1595	5.1623			N/A
5/14/2019	NZDHUF	9:30:00 AM	189.51	189.68			N/A
5/14/2019	NZDHUF	11:30:00 AM	189.33	189.62			N/A
5/14/2019	NZDHUF	1:30:00 PM	189.77	190.01			N/A
5/14/2019	NZDHUF	3:30:00 PM	189.96	190.12			N/A

5/14/2019	NZDJPY	9:30:00 AM	72.057	72.124			N/A
5/14/2019	NZDJPY	11:30:00 AM	72.087	72.146			N/A
5/14/2019	NZDJPY	1:30:00 PM	72.16	72.22			N/A
5/14/2019	NZDJPY	3:30:00 PM	72.009	72.052			N/A
5/14/2019	NZDJPY.fx	9:30:00 AM	72.088	72.092			N/A
5/14/2019	NZDJPY.fx	11:30:00 AM	72.117	72.113			N/A
5/14/2019	NZDJPY.fx	1:30:00 PM	72.192	72.187			N/A
5/14/2019	NZDJPY.fx	3:30:00 PM	72.039	72.02			N/A
5/14/2019	NZDMXN	9:30:00 AM	12.6276	12.6326			N/A
5/14/2019	NZDMXN	11:30:00 AM	12.621	12.6259			N/A
5/14/2019	NZDMXN	1:30:00 PM	12.6132	12.618			N/A
5/14/2019	NZDMXN	3:30:00 PM	12.6091	12.6149			N/A
5/14/2019	NZDNOK	9:30:00 AM	5.7484	5.7491			N/A
5/14/2019	NZDNOK	11:30:00 AM	5.7436	5.7444			N/A
5/14/2019	NZDNOK	1:30:00 PM	5.7429	5.7459			N/A
5/14/2019	NZDNOK	3:30:00 PM	5.7482	5.7485			N/A
5/14/2019	NZDPLN	9:30:00 AM	2.5191	2.5203			N/A
5/14/2019	NZDPLN	11:30:00 AM	2.5196	2.5209			N/A
5/14/2019	NZDPLN	1:30:00 PM	2.5249	2.526			N/A
5/14/2019	NZDPLN	3:30:00 PM	2.5245	2.5259			N/A
5/14/2019	NZDSEK	9:30:00 AM	6.3263	6.3302			N/A
5/14/2019	NZDSEK	11:30:00 AM	6.3081	6.3132			N/A
5/14/2019	NZDSEK	1:30:00 PM	6.3115	6.3177			N/A
5/14/2019	NZDSEK	3:30:00 PM	6.319	6.3243			N/A
5/14/2019	NZDSGD	9:30:00 AM	0.9003	0.9009			N/A
5/14/2019	NZDSGD	11:30:00 AM	0.9005	0.9011			N/A
5/14/2019	NZDSGD	1:30:00 PM	0.9004	0.901			N/A
5/14/2019	NZDSGD	3:30:00 PM	0.9004	0.9011			N/A
5/14/2019	NZDSGD.fx	9:30:00 AM	0.90028	0.90081			N/A
5/14/2019	NZDSGD.fx	11:30:00 AM	0.90048	0.90108			N/A
5/14/2019	NZDSGD.fx	1:30:00 PM	0.90035	0.90091			N/A
5/14/2019	NZDSGD.fx	3:30:00 PM	0.9004	0.901			N/A
5/14/2019	NZDUSD	9:30:00 AM	0.65794	0.65804			N/A
5/14/2019	NZDUSD	11:30:00 AM	0.6578	0.65791			N/A

5/14/2019	NZDUSD	1:30:00 PM	0.65806	0.65813			N/A
5/14/2019	NZDUSD	3:30:00 PM	0.65769	0.65777			N/A
5/14/2019	NZDUSD.fx	9:30:00 AM	0.65801	0.65806			N/A
5/14/2019	NZDUSD.fx	11:30:00 AM	0.65788	0.65792			N/A
5/14/2019	NZDUSD.fx	1:30:00 PM	0.65814	0.65815			N/A
5/14/2019	NZDUSD.fx	3:30:00 PM	0.65776	0.65778			N/A
5/14/2019	NZDZAR	9:30:00 AM	9.4132	9.4241			N/A
5/14/2019	NZDZAR	11:30:00 AM	9.3639	9.3809			N/A
5/14/2019	NZDZAR	1:30:00 PM	9.3683	9.382			N/A
5/14/2019	NZDZAR	3:30:00 PM	9.3635	9.3764			N/A
5/14/2019	SEKJPY	9:30:00 AM	11.39	11.39			N/A
5/14/2019	SEKJPY	11:30:00 AM	11.42	11.43			N/A
5/14/2019	SEKJPY	1:30:00 PM	11.43	11.44			N/A
5/14/2019	SEKJPY	3:30:00 PM	11.39	11.4			N/A
5/14/2019	SEKJPY.fx	9:30:00 AM	11.378	11.392			N/A
5/14/2019	SEKJPY.fx	11:30:00 AM	11.416	11.428			N/A
5/14/2019	SEKJPY.fx	1:30:00 PM	11.419	11.435			N/A
5/14/2019	SEKJPY.fx	3:30:00 PM	11.383	11.394			N/A
5/14/2019	SGDJPY	9:30:00 AM	80.02	80.05			N/A
5/14/2019	SGDJPY	11:30:00 AM	80.04	80.05			N/A
5/14/2019	SGDJPY	1:30:00 PM	80.18	80.15			N/A
5/14/2019	SGDJPY	3:30:00 PM	79.94	79.95			N/A
5/14/2019	SILVER	9:30:00 AM	14.59	14.96			N/A
5/14/2019	SILVER	11:30:00 AM	14.57	14.94			N/A
5/14/2019	SILVER	1:30:00 PM	14.56	14.94			N/A
5/14/2019	SILVER	3:30:00 PM	14.62	15			N/A
5/14/2019	SPX500.i	9:30:00 AM	2817.97	2818.02			N/A
5/14/2019	SPX500.i	11:30:00 AM	2817.72	2816.77			N/A
5/14/2019	SPX500.i	1:30:00 PM	2826.22	2827.02			N/A
5/14/2019	SPX500.i	3:30:00 PM	2825.72	2825.02			N/A
5/14/2019	UK100.i	9:30:00 AM	7189.84	7187.34			N/A
5/14/2019	UK100.i	11:30:00 AM	7219.59	7218.34			N/A
5/14/2019	UK100.i	1:30:00 PM	7228.84	7228.34			N/A
5/14/2019	UK100.i	3:30:00 PM	7236.26	7234.51			N/A

5/14/2019	USDCAD	9:30:00 AM	1.34711	1.34711			N/A
5/14/2019	USDCAD	11:30:00 AM	1.34657	1.34666			N/A
5/14/2019	USDCAD	1:30:00 PM	1.34597	1.34593			N/A
5/14/2019	USDCAD	3:30:00 PM	1.3479	1.34758			N/A
5/14/2019	USDCAD.fx	9:30:00 AM	1.34714	1.34707			N/A
5/14/2019	USDCAD.fx	11:30:00 AM	1.34659	1.34663			N/A
5/14/2019	USDCAD.fx	1:30:00 PM	1.346	1.34589			N/A
5/14/2019	USDCAD.fx	3:30:00 PM	1.34794	1.34754			N/A
5/14/2019	USDCHF	9:30:00 AM	1.00634	1.0064			N/A
5/14/2019	USDCHF	11:30:00 AM	1.00729	1.00727			N/A
5/14/2019	USDCHF	1:30:00 PM	1.00824	1.00816			N/A
5/14/2019	USDCHF	3:30:00 PM	1.00752	1.00759			N/A
5/14/2019	USDCHF.fx	9:30:00 AM	1.00638	1.00634			N/A
5/14/2019	USDCHF.fx	11:30:00 AM	1.00734	1.00722			N/A
5/14/2019	USDCHF.fx	1:30:00 PM	1.00829	1.00809			N/A
5/14/2019	USDCHF.fx	3:30:00 PM	1.00757	1.00752			N/A
5/14/2019	USDCZK	9:30:00 AM	22.921	22.94			N/A
5/14/2019	USDCZK	11:30:00 AM	22.898	22.92			N/A
5/14/2019	USDCZK	1:30:00 PM	22.927	22.947			N/A
5/14/2019	USDCZK	3:30:00 PM	22.963	22.974			N/A
5/14/2019	USDCZK.fx	9:30:00 AM	22.9285	22.9309			N/A
5/14/2019	USDCZK.fx	11:30:00 AM	22.9066	22.9103			N/A
5/14/2019	USDCZK.fx	1:30:00 PM	22.9358	22.9383			N/A
5/14/2019	USDCZK.fx	3:30:00 PM	22.9706	22.9661			N/A
5/14/2019	USDDKK	9:30:00 AM	6.6442	6.6481			N/A
5/14/2019	USDDKK	11:30:00 AM	6.6426	6.6465			N/A
5/14/2019	USDDKK	1:30:00 PM	6.6512	6.6542			N/A
5/14/2019	USDDKK	3:30:00 PM	6.6607	6.663			N/A
5/14/2019	USDDKK.fx	9:30:00 AM	6.64472	6.64602			N/A
5/14/2019	USDDKK.fx	11:30:00 AM	6.6432	6.64453			N/A
5/14/2019	USDDKK.fx	1:30:00 PM	6.65197	6.65213			N/A
5/14/2019	USDDKK.fx	3:30:00 PM	6.66104	6.66099			N/A
5/14/2019	USDHKD	9:30:00 AM	7.8488	7.8491			N/A
5/14/2019	USDHKD	11:30:00 AM	7.8486	7.8484			N/A

5/14/2019	USDHKD	1:30:00 PM	7.8486	7.8487			N/A
5/14/2019	USDHKD	3:30:00 PM	7.8487	7.8485			N/A
5/14/2019	USDHKD.fx	9:30:00 AM	7.84879	7.84929			N/A
5/14/2019	USDHKD.fx	11:30:00 AM	7.84853	7.84899			N/A
5/14/2019	USDHKD.fx	1:30:00 PM	7.84873	7.84932			N/A
5/14/2019	USDHKD.fx	3:30:00 PM	7.84866	7.84923			N/A
5/14/2019	USDHUF	9:30:00 AM	288.13	288.52			N/A
5/14/2019	USDHUF	11:30:00 AM	288.05	288.53			N/A
5/14/2019	USDHUF	1:30:00 PM	288.49	288.86			N/A
5/14/2019	USDHUF	3:30:00 PM	289.01	289.33			N/A
5/14/2019	USDHUF.fx	9:30:00 AM	288.343	288.317			N/A
5/14/2019	USDHUF.fx	11:30:00 AM	288.264	288.325			N/A
5/14/2019	USDHUF.fx	1:30:00 PM	288.697	288.664			N/A
5/14/2019	USDHUF.fx	3:30:00 PM	289.213	289.135			N/A
5/14/2019	USDINR	9:30:00 AM	65.5	75.49			N/A
5/14/2019	USDINR	11:30:00 AM	65.4	75.37			N/A
5/14/2019	USDINR	1:30:00 PM					N/A
5/14/2019	USDINR	3:30:00 PM					N/A
5/14/2019	USDJPY	9:30:00 AM	109.553	109.558			N/A
5/14/2019	USDJPY	11:30:00 AM	109.614	109.61			N/A
5/14/2019	USDJPY	1:30:00 PM	109.685	109.692			N/A
5/14/2019	USDJPY	3:30:00 PM	109.519	109.495			N/A
5/14/2019	USDJPY.fx	9:30:00 AM	109.56	109.55			N/A
5/14/2019	USDJPY.fx	11:30:00 AM	109.62	109.604			N/A
5/14/2019	USDJPY.fx	1:30:00 PM	109.69	109.685			N/A
5/14/2019	USDJPY.fx	3:30:00 PM	109.524	109.488			N/A
5/14/2019	USDMXN	9:30:00 AM	19.199	19.206			N/A
5/14/2019	USDMXN	11:30:00 AM	19.192	19.199			N/A
5/14/2019	USDMXN	1:30:00 PM	19.174	19.178			N/A
5/14/2019	USDMXN	3:30:00 PM	19.18	19.188			N/A
5/14/2019	USDMXN.f	9:30:00 AM	19.2034	19.2026			N/A
5/14/2019	USDMXN.f	11:30:00 AM	19.1956	19.1955			N/A
5/14/2019	USDMXN.f	1:30:00 PM	19.1775	19.175			N/A
5/14/2019	USDMXN.f	3:30:00 PM	19.1837	19.1835			N/A

5/14/2019	USDNOK	9:30:00 AM	8.7389	8.7458			N/A
5/14/2019	USDNOK	11:30:00 AM	8.7339	8.7392			N/A
5/14/2019	USDNOK	1:30:00 PM	8.7286	8.736			N/A
5/14/2019	USDNOK	3:30:00 PM	8.7426	8.7472			N/A
5/14/2019	USDNOK.fx	9:30:00 AM	8.74267	8.74114			N/A
5/14/2019	USDNOK.fx	11:30:00 AM	8.73777	8.73474			N/A
5/14/2019	USDNOK.fx	1:30:00 PM	8.73257	8.73149			N/A
5/14/2019	USDNOK.fx	3:30:00 PM	8.74669	8.74264			N/A
5/14/2019	USDPLN	9:30:00 AM	3.8308	3.8323			N/A
5/14/2019	USDPLN	11:30:00 AM	3.8319	3.8335			N/A
5/14/2019	USDPLN	1:30:00 PM	3.838	3.839			N/A
5/14/2019	USDPLN	3:30:00 PM	3.8404	3.8413			N/A
5/14/2019	USDPLN.fx	9:30:00 AM	3.82996	3.83311			N/A
5/14/2019	USDPLN.fx	11:30:00 AM	3.83116	3.83414			N/A
5/14/2019	USDPLN.fx	1:30:00 PM	3.83718	3.83963			N/A
5/14/2019	USDPLN.fx	3:30:00 PM	3.83958	3.8421			N/A
5/14/2019	USDRUB	9:30:00 AM					N/A
5/14/2019	USDRUB	11:30:00 AM	65.199	65.578			N/A
5/14/2019	USDRUB	1:30:00 PM	65.119	65.484			N/A
5/14/2019	USDRUB	3:30:00 PM	65.076	65.449			N/A
5/14/2019	USDSEK	9:30:00 AM	9.6212	9.6225			N/A
5/14/2019	USDSEK	11:30:00 AM	9.5957	9.5959			N/A
5/14/2019	USDSEK	1:30:00 PM	9.5968	9.5997			N/A
5/14/2019	USDSEK	3:30:00 PM	9.6146	9.6153			N/A
5/14/2019	USDSEK.fx	9:30:00 AM	9.62415	9.62057			N/A
5/14/2019	USDSEK.fx	11:30:00 AM	9.59823	9.59415			N/A
5/14/2019	USDSEK.fx	1:30:00 PM	9.59947	9.59783			N/A
5/14/2019	USDSEK.fx	3:30:00 PM	9.61766	9.61337			N/A
5/14/2019	USDSGD	9:30:00 AM	1.3684	1.3687			N/A
5/14/2019	USDSGD	11:30:00 AM	1.3691	1.3692			N/A
5/14/2019	USDSGD	1:30:00 PM	1.3683	1.3684			N/A
5/14/2019	USDSGD	3:30:00 PM	1.3692	1.3695			N/A
5/14/2019	USDSGD.fx	9:30:00 AM	1.36828	1.36869			N/A
5/14/2019	USDSGD.fx	11:30:00 AM	1.36899	1.36933			N/A

5/14/2019	USDSGD.fx	1:30:00 PM	1.36826	1.36866			N/A
5/14/2019	USDSGD.fx	3:30:00 PM	1.36913	1.36955			N/A
5/14/2019	USDZAR	9:30:00 AM	14.3159	14.3312			N/A
5/14/2019	USDZAR	11:30:00 AM	14.2487	14.2673			N/A
5/14/2019	USDZAR	1:30:00 PM	14.2421	14.2573			N/A
5/14/2019	USDZAR	3:30:00 PM	14.2479	14.2624			N/A
5/14/2019	USDZAR.fx	9:30:00 AM					N/A
5/14/2019	USDZAR.fx	11:30:00 AM					N/A
5/14/2019	USDZAR.fx	1:30:00 PM					N/A
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5/14/2019	XAUUSD	9:30:00 AM	1298.51	1298.83			N/A
5/14/2019	XAUUSD	11:30:00 AM	1297.75	1297.95			N/A
5/14/2019	XAUUSD	1:30:00 PM	1297.54	1297.82			N/A
5/14/2019	XAUUSD	3:30:00 PM	1299.23	1299.26			N/A
5/14/2019	ZARJPY	9:30:00 AM	7.63	7.65			N/A
5/14/2019	ZARJPY	11:30:00 AM	7.67	7.69			N/A
5/14/2019	ZARJPY	1:30:00 PM	7.68	7.7			N/A
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5/14/2019	ZARJPY.fx	9:30:00 AM	7.647	7.65			N/A
5/14/2019	ZARJPY.fx	11:30:00 AM	7.685	7.689			N/A
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5/15/2019	#S	11:30:00 AM					N/A
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5/15/2019	#S	3:30:00 PM					N/A

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5/15/2019	#TSCO	3:30:00 PM					N/A
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5/15/2019	#ZNGA	1:30:00 PM					N/A
5/15/2019	#ZNGA	3:30:00 PM					N/A
5/15/2019	AUDCAD	9:30:00 AM	0.93281	0.93347			N/A
5/15/2019	AUDCAD	11:30:00 AM	0.93257	0.93331			N/A
5/15/2019	AUDCAD	1:30:00 PM	0.93229	0.93295			N/A
5/15/2019	AUDCAD	3:30:00 PM	0.93288	0.93276			N/A
5/15/2019	AUDCAD.fx	9:30:00 AM	0.93314	0.93313			N/A
5/15/2019	AUDCAD.fx	11:30:00 AM	0.9329	0.93296			N/A
5/15/2019	AUDCAD.fx	1:30:00 PM	0.93263	0.93259			N/A
5/15/2019	AUDCAD.fx	3:30:00 PM	0.93321	0.9327			N/A
5/15/2019	AUDCHF	9:30:00 AM	0.69872	0.69942			N/A
5/15/2019	AUDCHF	11:30:00 AM	0.69663	0.69734			N/A

5/15/2019	AUDCHF	1:30:00 PM	0.69621	0.6968			N/A
5/15/2019	AUDCHF	3:30:00 PM	0.69692	0.69731			N/A
5/15/2019	AUDCHF.fx	9:30:00 AM	0.69906	0.69907			N/A
5/15/2019	AUDCHF.fx	11:30:00 AM	0.69698	0.69699			N/A
5/15/2019	AUDCHF.fx	1:30:00 PM	0.69656	0.69645			N/A
5/15/2019	AUDCHF.fx	3:30:00 PM	0.69716	0.69709			N/A
5/15/2019	AUDCZK	9:30:00 AM	15.903	15.92			N/A
5/15/2019	AUDCZK	11:30:00 AM	15.876	15.893			N/A
5/15/2019	AUDCZK	1:30:00 PM	15.886	15.899			N/A
5/15/2019	AUDCZK	3:30:00 PM	15.914	15.925			N/A
5/15/2019	AUDDKK	9:30:00 AM	4.6153	4.62			N/A
5/15/2019	AUDDKK	11:30:00 AM	4.6096	4.6143			N/A
5/15/2019	AUDDKK	1:30:00 PM	4.6105	4.6149			N/A
5/15/2019	AUDDKK	3:30:00 PM	4.6174	4.621			N/A
5/15/2019	AUDHKD	9:30:00 AM	5.4369	5.4407			N/A
5/15/2019	AUDHKD	11:30:00 AM	5.4329	5.4368			N/A
5/15/2019	AUDHKD	1:30:00 PM	5.4253	5.4288			N/A
5/15/2019	AUDHKD	3:30:00 PM	5.4283	5.4317			N/A
5/15/2019	AUDHUF	9:30:00 AM	200.6	200.84			N/A
5/15/2019	AUDHUF	11:30:00 AM	200.44	200.68			N/A
5/15/2019	AUDHUF	1:30:00 PM	200.47	200.64			N/A
5/15/2019	AUDHUF	3:30:00 PM	200.86	201.03			N/A
5/15/2019	AUDJPY	9:30:00 AM	75.986	76.05			N/A
5/15/2019	AUDJPY	11:30:00 AM	75.814	75.883			N/A
5/15/2019	AUDJPY	1:30:00 PM	75.55	75.615			N/A
5/15/2019	AUDJPY	3:30:00 PM	75.597	75.613			N/A
5/15/2019	AUDJPY.fx	9:30:00 AM	76.02	76.015			N/A
5/15/2019	AUDJPY.fx	11:30:00 AM	75.847	75.848			N/A
5/15/2019	AUDJPY.fx	1:30:00 PM	75.584	75.58			N/A
5/15/2019	AUDJPY.fx	3:30:00 PM	75.621	75.579			N/A
5/15/2019	AUDMXN	9:30:00 AM	13.2677	13.278			N/A
5/15/2019	AUDMXN	11:30:00 AM	13.2588	13.2679			N/A
5/15/2019	AUDMXN	1:30:00 PM	13.2632	13.2693			N/A
5/15/2019	AUDMXN	3:30:00 PM	13.2809	13.2889			N/A

5/15/2019	AUDNOK	9:30:00 AM	6.0594	6.0644			N/A
5/15/2019	AUDNOK	11:30:00 AM	6.0555	6.0606			N/A
5/15/2019	AUDNOK	1:30:00 PM	6.0503	6.0547			N/A
5/15/2019	AUDNOK	3:30:00 PM	6.0587	6.0605			N/A
5/15/2019	AUDNOK.fx	9:30:00 AM	6.0609	6.0627			N/A
5/15/2019	AUDNOK.fx	11:30:00 AM	6.0571	6.0588			N/A
5/15/2019	AUDNOK.fx	1:30:00 PM	6.052	6.0528			N/A
5/15/2019	AUDNOK.fx	3:30:00 PM	6.0587	6.0588			N/A
5/15/2019	AUDNZD	9:30:00 AM	1.05459	1.05553			N/A
5/15/2019	AUDNZD	11:30:00 AM	1.05473	1.0556			N/A
5/15/2019	AUDNZD	1:30:00 PM	1.05447	1.05534			N/A
5/15/2019	AUDNZD	3:30:00 PM	1.0553	1.05601			N/A
5/15/2019	AUDNZD.fx	9:30:00 AM	1.05502	1.05506			N/A
5/15/2019	AUDNZD.fx	11:30:00 AM	1.05516	1.05514			N/A
5/15/2019	AUDNZD.fx	1:30:00 PM	1.0549	1.05487			N/A
5/15/2019	AUDNZD.fx	3:30:00 PM	1.05562	1.05554			N/A
5/15/2019	AUDPLN	9:30:00 AM	2.6634	2.6664			N/A
5/15/2019	AUDPLN	11:30:00 AM	2.6606	2.663			N/A
5/15/2019	AUDPLN	1:30:00 PM	2.6613	2.6642			N/A
5/15/2019	AUDPLN	3:30:00 PM	2.6641	2.6667			N/A
5/15/2019	AUDSEK	9:30:00 AM	6.6562	6.6595			N/A
5/15/2019	AUDSEK	11:30:00 AM	6.6489	6.652			N/A
5/15/2019	AUDSEK	1:30:00 PM	6.6516	6.6543			N/A
5/15/2019	AUDSEK	3:30:00 PM	6.6627	6.6626			N/A
5/15/2019	AUDSEK.fx	9:30:00 AM	6.6516	6.6638			N/A
5/15/2019	AUDSEK.fx	11:30:00 AM	6.6443	6.6564			N/A
5/15/2019	AUDSEK.fx	1:30:00 PM	6.647	6.6588			N/A
5/15/2019	AUDSEK.fx	3:30:00 PM	6.6578	6.6688			N/A
5/15/2019	AUDSGD	9:30:00 AM	0.9481	0.9484			N/A
5/15/2019	AUDSGD	11:30:00 AM	0.9475	0.9477			N/A
5/15/2019	AUDSGD	1:30:00 PM	0.9469	0.9471			N/A
5/15/2019	AUDSGD	3:30:00 PM	0.9475	0.9476			N/A
5/15/2019	AUDSGD.fx	9:30:00 AM	0.94821	0.94835			N/A
5/15/2019	AUDSGD.fx	11:30:00 AM	0.94757	0.94763			N/A

5/15/2019	AUDSGD.fx	1:30:00 PM	0.94698	0.947			N/A
5/15/2019	AUDSGD.fx	3:30:00 PM	0.94755	0.94754			N/A
5/15/2019	AUDUSD	9:30:00 AM	0.69294	0.69305			N/A
5/15/2019	AUDUSD	11:30:00 AM	0.69251	0.69259			N/A
5/15/2019	AUDUSD	1:30:00 PM	0.69153	0.6916			N/A
5/15/2019	AUDUSD	3:30:00 PM	0.69204	0.69205			N/A
5/15/2019	AUDUSD.fx	9:30:00 AM	0.693	0.693			N/A
5/15/2019	AUDUSD.fx	11:30:00 AM	0.69257	0.69253			N/A
5/15/2019	AUDUSD.fx	1:30:00 PM	0.69158	0.69154			N/A
5/15/2019	AUDUSD.fx	3:30:00 PM	0.69209	0.69201			N/A
5/15/2019	AUDZAR	9:30:00 AM	9.8642	9.8788			N/A
5/15/2019	AUDZAR	11:30:00 AM	9.8489	9.8629			N/A
5/15/2019	AUDZAR	1:30:00 PM	9.8589	9.8706			N/A
5/15/2019	AUDZAR	3:30:00 PM	9.867	9.8753			N/A
5/15/2019	AUS200.i	9:30:00 AM	6289.84	6294.34			N/A
5/15/2019	AUS200.i	11:30:00 AM	6284.94	6288.14			N/A
5/15/2019	AUS200.i	1:30:00 PM	6269.34	6272.34			N/A
5/15/2019	AUS200.i	3:30:00 PM	6262.84	6263.34			N/A
5/15/2019	BCHUSD	9:30:00 AM	398.26	400.12			N/A
5/15/2019	BCHUSD	11:30:00 AM	391.39	393.31			N/A
5/15/2019	BCHUSD	1:30:00 PM	397.26	398.53			N/A
5/15/2019	BCHUSD	3:30:00 PM	395.87	395.67			N/A
5/15/2019	CADCHF	9:30:00 AM	0.7488	0.74949			N/A
5/15/2019	CADCHF	11:30:00 AM	0.74673	0.74743			N/A
5/15/2019	CADCHF	1:30:00 PM	0.74655	0.74716			N/A
5/15/2019	CADCHF	3:30:00 PM	0.74737	0.74728			N/A
5/15/2019	CADCHF.fx	9:30:00 AM	0.74914	0.74913			N/A
5/15/2019	CADCHF.fx	11:30:00 AM	0.74706	0.74708			N/A
5/15/2019	CADCHF.fx	1:30:00 PM	0.74692	0.74679			N/A
5/15/2019	CADCHF.fx	3:30:00 PM	0.74749	0.74694			N/A
5/15/2019	CADCZK	9:30:00 AM	17.048	17.062			N/A
5/15/2019	CADCZK	11:30:00 AM	17.021	17.038			N/A
5/15/2019	CADCZK	1:30:00 PM	17.039	17.051			N/A
5/15/2019	CADCZK	3:30:00 PM	17.076	17.078			N/A

5/15/2019	CADDKK	9:30:00 AM					N/A
5/15/2019	CADDKK	11:30:00 AM					N/A
5/15/2019	CADDKK	1:30:00 PM	4.944	4.947			N/A
5/15/2019	CADDKK	3:30:00 PM	4.954	4.954			N/A
5/15/2019	CADHKD	9:30:00 AM	5.8272	5.8311			N/A
5/15/2019	CADHKD	11:30:00 AM	5.8246	5.8285			N/A
5/15/2019	CADHKD	1:30:00 PM	5.8188	5.8221			N/A
5/15/2019	CADHKD	3:30:00 PM	5.8245	5.824			N/A
5/15/2019	CADHUF	9:30:00 AM	215.06	215.2			N/A
5/15/2019	CADHUF	11:30:00 AM	214.93	215.09			N/A
5/15/2019	CADHUF	1:30:00 PM	215.04	215.13			N/A
5/15/2019	CADHUF	3:30:00 PM	215.55	215.56			N/A
5/15/2019	CADJPY	9:30:00 AM	81.434	81.497			N/A
5/15/2019	CADJPY	11:30:00 AM	81.265	81.336			N/A
5/15/2019	CADJPY	1:30:00 PM	81.007	81.076			N/A
5/15/2019	CADJPY	3:30:00 PM	81.076	81.02			N/A
5/15/2019	CADJPY.fx	9:30:00 AM	81.468	81.462			N/A
5/15/2019	CADJPY.fx	11:30:00 AM	81.299	81.302			N/A
5/15/2019	CADJPY.fx	1:30:00 PM	81.04	81.041			N/A
5/15/2019	CADJPY.fx	3:30:00 PM	81.085	80.987			N/A
5/15/2019	CADMXN	9:30:00 AM	14.2194	14.2322			N/A
5/15/2019	CADMXN	11:30:00 AM	14.2136	14.2249			N/A
5/15/2019	CADMXN	1:30:00 PM	14.2242	14.2315			N/A
5/15/2019	CADMXN	3:30:00 PM	14.2488	14.248			N/A
5/15/2019	CADNOK	9:30:00 AM	6.4918	6.4967			N/A
5/15/2019	CADNOK	11:30:00 AM	6.49	6.4949			N/A
5/15/2019	CADNOK	1:30:00 PM	6.4866	6.4876			N/A
5/15/2019	CADNOK	3:30:00 PM	6.4952	6.494			N/A
5/15/2019	CADPLN	9:30:00 AM	2.8543	2.8562			N/A
5/15/2019	CADPLN	11:30:00 AM	2.8515	2.8534			N/A
5/15/2019	CADPLN	1:30:00 PM	2.8537	2.8554			N/A
5/15/2019	CADPLN	3:30:00 PM	2.8576	2.858			N/A
5/15/2019	CADSEK	9:30:00 AM	7.1314	7.1353			N/A
5/15/2019	CADSEK	11:30:00 AM	7.1262	7.1296			N/A

5/15/2019	CADSEK	1:30:00 PM	7.1309	7.1339			N/A
5/15/2019	CADSEK	3:30:00 PM	7.1423	7.1443			N/A
5/15/2019	CADSGD	9:30:00 AM	1.0158	1.0161			N/A
5/15/2019	CADSGD	11:30:00 AM	1.015	1.0153			N/A
5/15/2019	CADSGD	1:30:00 PM	1.0148	1.0151			N/A
5/15/2019	CADSGD	3:30:00 PM	1.0154	1.0157			N/A
5/15/2019	CADZAR	9:30:00 AM	10.5729	10.5885			N/A
5/15/2019	CADZAR	11:30:00 AM	10.5584	10.5743			N/A
5/15/2019	CADZAR	1:30:00 PM	10.5727	10.5866			N/A
5/15/2019	CADZAR	3:30:00 PM	10.582	10.5933			N/A
5/15/2019	CHFCZK	9:30:00 AM	22.759	22.772			N/A
5/15/2019	CHFCZK	11:30:00 AM	22.787	22.804			N/A
5/15/2019	CHFCZK	1:30:00 PM	22.82	22.827			N/A
5/15/2019	CHFCZK	3:30:00 PM	22.843	22.849			N/A
5/15/2019	CHFDKK	9:30:00 AM	6.606	6.609			N/A
5/15/2019	CHFDKK	11:30:00 AM	6.617	6.62			N/A
5/15/2019	CHFDKK	1:30:00 PM	6.623	6.625			N/A
5/15/2019	CHFDKK	3:30:00 PM	6.628	6.628			N/A
5/15/2019	CHFDKK.fx	9:30:00 AM	6.6046	6.6101			N/A
5/15/2019	CHFDKK.fx	11:30:00 AM	6.6158	6.6215			N/A
5/15/2019	CHFDKK.fx	1:30:00 PM	6.6214	6.6271			N/A
5/15/2019	CHFDKK.fx	3:30:00 PM	6.6256	6.6307			N/A
5/15/2019	CHFHKD	9:30:00 AM	7.7789	7.7828			N/A
5/15/2019	CHFHKD	11:30:00 AM	7.7977	7.8016			N/A
5/15/2019	CHFHKD	1:30:00 PM	7.792	7.7948			N/A
5/15/2019	CHFHKD	3:30:00 PM	7.7913	7.7925			N/A
5/15/2019	CHFHUF	9:30:00 AM	287	287.35			N/A
5/15/2019	CHFHUF	11:30:00 AM	287.62	287.99			N/A
5/15/2019	CHFHUF	1:30:00 PM	287.91	288.14			N/A
5/15/2019	CHFHUF	3:30:00 PM	288.21	288.5			N/A
5/15/2019	CHFJPY	9:30:00 AM	108.708	108.775			N/A
5/15/2019	CHFJPY	11:30:00 AM	108.789	108.856			N/A
5/15/2019	CHFJPY	1:30:00 PM	108.486	108.537			N/A
5/15/2019	CHFJPY	3:30:00 PM	108.431	108.457			N/A

5/15/2019	CHFJPY.fx	9:30:00 AM	108.743	108.74			N/A
5/15/2019	CHFJPY.fx	11:30:00 AM	108.823	108.82			N/A
5/15/2019	CHFJPY.fx	1:30:00 PM	108.519	108.502			N/A
5/15/2019	CHFJPY.fx	3:30:00 PM	108.456	108.424			N/A
5/15/2019	CHFMXN	9:30:00 AM	18.9817	18.9986			N/A
5/15/2019	CHFMXN	11:30:00 AM	19.0258	19.0408			N/A
5/15/2019	CHFMXN	1:30:00 PM	19.048	19.056			N/A
5/15/2019	CHFMXN	3:30:00 PM	19.0595	19.067			N/A
5/15/2019	CHFNOK	9:30:00 AM	8.6694	8.6769			N/A
5/15/2019	CHFNOK	11:30:00 AM	8.6902	8.6971			N/A
5/15/2019	CHFNOK	1:30:00 PM	8.6894	8.6941			N/A
5/15/2019	CHFNOK	3:30:00 PM	8.6922	8.6963			N/A
5/15/2019	CHFNOK.fx	9:30:00 AM	8.67295	8.67351			N/A
5/15/2019	CHFNOK.fx	11:30:00 AM	8.69369	8.69353			N/A
5/15/2019	CHFNOK.fx	1:30:00 PM	8.69307	8.69047			N/A
5/15/2019	CHFNOK.fx	3:30:00 PM	8.69315	8.69277			N/A
5/15/2019	CHFPLN	9:30:00 AM	3.8108	3.8133			N/A
5/15/2019	CHFPLN	11:30:00 AM	3.8182	3.8199			N/A
5/15/2019	CHFPLN	1:30:00 PM	3.8216	3.8242			N/A
5/15/2019	CHFPLN	3:30:00 PM	3.8224	3.8244			N/A
5/15/2019	CHFPLN.fx	9:30:00 AM	3.80845	3.81563			N/A
5/15/2019	CHFPLN.fx	11:30:00 AM	3.81594	3.82205			N/A
5/15/2019	CHFPLN.fx	1:30:00 PM	3.81924	3.82647			N/A
5/15/2019	CHFPLN.fx	3:30:00 PM	3.81978	3.82718			N/A
5/15/2019	CHFSEK	9:30:00 AM	9.5202	9.5239			N/A
5/15/2019	CHFSEK	11:30:00 AM	9.5384	9.5432			N/A
5/15/2019	CHFSEK	1:30:00 PM	9.5483	9.552			N/A
5/15/2019	CHFSEK	3:30:00 PM	9.5549	9.555			N/A
5/15/2019	CHFSGD	9:30:00 AM	1.3563	1.3568			N/A
5/15/2019	CHFSGD	11:30:00 AM	1.3594	1.3598			N/A
5/15/2019	CHFSGD	1:30:00 PM	1.3595	1.3598			N/A
5/15/2019	CHFSGD	3:30:00 PM	1.3593	1.3593			N/A
5/15/2019	CHFSGD.fx	9:30:00 AM	1.35653	1.35659			N/A
5/15/2019	CHFSGD.fx	11:30:00 AM	1.35961	1.35957			N/A

5/15/2019	CHFSGD.fx	1:30:00 PM	1.35964	1.35961			N/A
5/15/2019	CHFSGD.fx	3:30:00 PM	1.35928	1.35921			N/A
5/15/2019	CHFZAR	9:30:00 AM	14.118	14.1309			N/A
5/15/2019	CHFZAR	11:30:00 AM	14.1377	14.1503			N/A
5/15/2019	CHFZAR	1:30:00 PM	14.1628	14.1726			N/A
5/15/2019	CHFZAR	3:30:00 PM	14.161	14.1662			N/A
5/15/2019	CZKJPY	9:30:00 AM	4.776	4.78			N/A
5/15/2019	CZKJPY	11:30:00 AM	4.773	4.776			N/A
5/15/2019	CZKJPY	1:30:00 PM	4.755	4.757			N/A
5/15/2019	CZKJPY	3:30:00 PM	4.748	4.75			N/A
5/15/2019	DAX30.i	9:30:00 AM	12032.93	12031.68			N/A
5/15/2019	DAX30.i	11:30:00 AM	11972.18	11962.18			N/A
5/15/2019	DAX30.i	1:30:00 PM	11910.43	11910.18			N/A
5/15/2019	DAX30.i	3:30:00 PM	11891.18	11880.68			N/A
5/15/2019	DJ30.i	9:30:00 AM					N/A
5/15/2019	DJ30.i	11:30:00 AM					N/A
5/15/2019	DJ30.i	1:30:00 PM					N/A
5/15/2019	DJ30.i	3:30:00 PM					N/A
5/15/2019	DKKJPY	9:30:00 AM	16.46	16.48			N/A
5/15/2019	DKKJPY	11:30:00 AM					N/A
5/15/2019	DKKJPY	1:30:00 PM					N/A
5/15/2019	DKKJPY	3:30:00 PM	16.38	16.39			N/A
5/15/2019	EURAUD	9:30:00 AM	1.61627	1.61665			N/A
5/15/2019	EURAUD	11:30:00 AM	1.61842	1.61879			N/A
5/15/2019	EURAUD	1:30:00 PM	1.61823	1.61848			N/A
5/15/2019	EURAUD	3:30:00 PM	1.61614	1.61601			N/A
5/15/2019	EURAUD.fx	9:30:00 AM	1.61648	1.61643			N/A
5/15/2019	EURAUD.fx	11:30:00 AM	1.61863	1.61856			N/A
5/15/2019	EURAUD.fx	1:30:00 PM	1.61844	1.61826			N/A
5/15/2019	EURAUD.fx	3:30:00 PM	1.61628	1.61595			N/A
5/15/2019	EURCAD	9:30:00 AM	1.50856	1.50927			N/A
5/15/2019	EURCAD	11:30:00 AM	1.51015	1.51105			N/A
5/15/2019	EURCAD	1:30:00 PM	1.5094	1.51018			N/A
5/15/2019	EURCAD	3:30:00 PM	1.50852	1.50769			N/A

5/15/2019	EURCAD.fx	9:30:00 AM	1.50899	1.50884			N/A
5/15/2019	EURCAD.fx	11:30:00 AM	1.51059	1.51062			N/A
5/15/2019	EURCAD.fx	1:30:00 PM	1.50983	1.50975			N/A
5/15/2019	EURCAD.fx	3:30:00 PM	1.50894	1.50752			N/A
5/15/2019	EURCHF	9:30:00 AM	1.1304	1.13041			N/A
5/15/2019	EURCHF	11:30:00 AM	1.12853	1.12854			N/A
5/15/2019	EURCHF	1:30:00 PM	1.1276	1.12762			N/A
5/15/2019	EURCHF	3:30:00 PM	1.12707	1.12696			N/A
5/15/2019	EURCHF.fx	9:30:00 AM	1.13046	1.13035			N/A
5/15/2019	EURCHF.fx	11:30:00 AM	1.12859	1.12848			N/A
5/15/2019	EURCHF.fx	1:30:00 PM	1.12766	1.12755			N/A
5/15/2019	EURCHF.fx	3:30:00 PM	1.12713	1.12693			N/A
5/15/2019	EURCZK	9:30:00 AM	25.713	25.751			N/A
5/15/2019	EURCZK	11:30:00 AM	25.702	25.742			N/A
5/15/2019	EURCZK	1:30:00 PM	25.717	25.748			N/A
5/15/2019	EURCZK	3:30:00 PM	25.723	25.757			N/A
5/15/2019	EURDKK	9:30:00 AM					N/A
5/15/2019	EURDKK	11:30:00 AM	7.4685	7.4696			N/A
5/15/2019	EURDKK	1:30:00 PM	7.4639	7.4642			N/A
5/15/2019	EURDKK	3:30:00 PM	7.465	7.4656			N/A
5/15/2019	EURGBP	9:30:00 AM	0.8683	0.86829			N/A
5/15/2019	EURGBP	11:30:00 AM	0.86844	0.86848		20	N/A
5/15/2019	EURGBP	1:30:00 PM	0.8677	0.86775		20	N/A
5/15/2019	EURGBP	3:30:00 PM	0.86939	0.86907		20	N/A
5/15/2019	EURGBP.fx	9:30:00 AM	0.86833	0.86824			N/A
5/15/2019	EURGBP.fx	11:30:00 AM	0.86848	0.86843			N/A
5/15/2019	EURGBP.fx	1:30:00 PM	0.86774	0.8677			N/A
5/15/2019	EURGBP.fx	3:30:00 PM	0.86938	0.86902			N/A
5/15/2019	EURHKD	9:30:00 AM	8.7944	8.7984			N/A
5/15/2019	EURHKD	11:30:00 AM	8.8001	8.8045			N/A
5/15/2019	EURHKD	1:30:00 PM	8.7862	8.7914			N/A
5/15/2019	EURHKD	3:30:00 PM	8.7813	8.783			N/A
5/15/2019	EURHKD.fx	9:30:00 AM	8.79722	8.79544			N/A
5/15/2019	EURHKD.fx	11:30:00 AM	8.80304	8.80168			N/A

5/15/2019	EURHKD.fx	1:30:00 PM	8.78904	8.78855			N/A
5/15/2019	EURHKD.fx	3:30:00 PM	8.78328	8.78032			N/A
5/15/2019	EURHUF	9:30:00 AM	324.37	325.07			N/A
5/15/2019	EURHUF	11:30:00 AM	324.53	325.15			N/A
5/15/2019	EURHUF	1:30:00 PM	324.59	325.12			N/A
5/15/2019	EURHUF	3:30:00 PM	324.96	325.55			N/A
5/15/2019	EURHUF.fx	9:30:00 AM	324.649	324.828			N/A
5/15/2019	EURHUF.fx	11:30:00 AM	324.821	324.952			N/A
5/15/2019	EURHUF.fx	1:30:00 PM	324.881	325.038			N/A
5/15/2019	EURHUF.fx	3:30:00 PM	325.24	325.291			N/A
5/15/2019	EURJPY	9:30:00 AM	122.93	122.917			N/A
5/15/2019	EURJPY	11:30:00 AM	122.809	122.816			N/A
5/15/2019	EURJPY	1:30:00 PM	122.36	122.362			N/A
5/15/2019	EURJPY	3:30:00 PM	122.243	122.189			N/A
5/15/2019	EURJPY.fx	9:30:00 AM	122.934	122.913			N/A
5/15/2019	EURJPY.fx	11:30:00 AM	122.812	122.812			N/A
5/15/2019	EURJPY.fx	1:30:00 PM	122.362	122.358			N/A
5/15/2019	EURJPY.fx	3:30:00 PM	122.234	122.186			N/A
5/15/2019	EURMXN	9:30:00 AM	21.4583	21.4773			N/A
5/15/2019	EURMXN	11:30:00 AM	21.4724	21.4912			N/A
5/15/2019	EURMXN	1:30:00 PM	21.4801	21.4933			N/A
5/15/2019	EURMXN	3:30:00 PM	21.4791	21.4897			N/A
5/15/2019	EURMXN.fx	9:30:00 AM	21.4677	21.4683			N/A
5/15/2019	EURMXN.fx	11:30:00 AM	21.4811	21.4828			N/A
5/15/2019	EURMXN.fx	1:30:00 PM	21.4894	21.4843			N/A
5/15/2019	EURMXN.fx	3:30:00 PM	21.4847	21.4797			N/A
5/15/2019	EURNOK	9:30:00 AM	9.798	9.8103			N/A
5/15/2019	EURNOK	11:30:00 AM	9.8049	9.8167			N/A
5/15/2019	EURNOK	1:30:00 PM	9.796	9.8055			N/A
5/15/2019	EURNOK	3:30:00 PM	9.7927	9.803			N/A
5/15/2019	EURNOK.fx	9:30:00 AM	9.80343	9.8048			N/A
5/15/2019	EURNOK.fx	11:30:00 AM	9.81049	9.81128			N/A
5/15/2019	EURNOK.fx	1:30:00 PM	9.80155	9.79992			N/A
5/15/2019	EURNOK.fx	3:30:00 PM	9.79638	9.7976			N/A

5/15/2019	EURNZD	9:30:00 AM	1.70575	1.70646			N/A
5/15/2019	EURNZD	11:30:00 AM	1.70805	1.70885			N/A
5/15/2019	EURNZD	1:30:00 PM	1.70753	1.70818			N/A
5/15/2019	EURNZD	3:30:00 PM	1.70642	1.70683			N/A
5/15/2019	EURNZD.fx	9:30:00 AM	1.70615	1.70605			N/A
5/15/2019	EURNZD.fx	11:30:00 AM	1.70847	1.70841			N/A
5/15/2019	EURNZD.fx	1:30:00 PM	1.70794	1.70774			N/A
5/15/2019	EURNZD.fx	3:30:00 PM	1.70676	1.70643			N/A
5/15/2019	EURPLN	9:30:00 AM	4.308	4.3107			N/A
5/15/2019	EURPLN	11:30:00 AM	4.3089	4.3108			N/A
5/15/2019	EURPLN	1:30:00 PM	4.3092	4.3124			N/A
5/15/2019	EURPLN	3:30:00 PM	4.3077	4.3106			N/A
5/15/2019	EURPLN.fx	9:30:00 AM	4.30708	4.31131			N/A
5/15/2019	EURPLN.fx	11:30:00 AM	4.30829	4.31132			N/A
5/15/2019	EURPLN.fx	1:30:00 PM	4.30867	4.31282			N/A
5/15/2019	EURPLN.fx	3:30:00 PM	4.30716	4.31153			N/A
5/15/2019	EURRUB	9:30:00 AM					N/A
5/15/2019	EURRUB	11:30:00 AM	72.292	72.73			N/A
5/15/2019	EURRUB	1:30:00 PM	72.233	72.665			N/A
5/15/2019	EURRUB	3:30:00 PM	72.129	72.449			N/A
5/15/2019	EURSEK	9:30:00 AM	10.7635	10.7686			N/A
5/15/2019	EURSEK	11:30:00 AM	10.7658	10.7705			N/A
5/15/2019	EURSEK	1:30:00 PM	10.7682	10.7731			N/A
5/15/2019	EURSEK	3:30:00 PM	10.7706	10.7714			N/A
5/15/2019	EURSEK.fx	9:30:00 AM	10.76508	10.76689			N/A
5/15/2019	EURSEK.fx	11:30:00 AM	10.76756	10.7692			N/A
5/15/2019	EURSEK.fx	1:30:00 PM	10.77008	10.77133			N/A
5/15/2019	EURSEK.fx	3:30:00 PM	10.7724	10.7704			N/A
5/15/2019	EURSGD	9:30:00 AM	1.5331	1.5338			N/A
5/15/2019	EURSGD	11:30:00 AM	1.534	1.5347			N/A
5/15/2019	EURSGD	1:30:00 PM	1.5328	1.5336			N/A
5/15/2019	EURSGD	3:30:00 PM	1.5317	1.5321			N/A
5/15/2019	EURSGD.fx	9:30:00 AM	1.53343	1.53342			N/A
5/15/2019	EURSGD.fx	11:30:00 AM	1.53436	1.5343			N/A

5/15/2019	EURSGD.fx	1:30:00 PM	1.5331	1.53317			N/A
5/15/2019	EURSGD.fx	3:30:00 PM	1.53192	1.53177			N/A
5/15/2019	EURUSD	9:30:00 AM	1.12047	1.12044			N/A
5/15/2019	EURUSD	11:30:00 AM	1.12121	1.12119			N/A
5/15/2019	EURUSD	1:30:00 PM	1.11943	1.11953			N/A
5/15/2019	EURUSD	3:30:00 PM	1.11875	1.11846			N/A
5/15/2019	EURUSD.fx	9:30:00 AM	1.12066	1.1205			N/A
5/15/2019	EURUSD.fx	11:30:00 AM	1.12141	1.12128			N/A
5/15/2019	EURUSD.fx	1:30:00 PM	1.11964	1.11961			N/A
5/15/2019	EURUSD.fx	3:30:00 PM	1.1189	1.11857			N/A
5/15/2019	EURZAR	9:30:00 AM	15.9619	15.9778			N/A
5/15/2019	EURZAR	11:30:00 AM	15.9564	15.9739			N/A
5/15/2019	EURZAR	1:30:00 PM	15.9726	15.9838			N/A
5/15/2019	EURZAR	3:30:00 PM	15.9665	15.9675			N/A
5/15/2019	EURZAR.fx	9:30:00 AM	15.961	15.97823			N/A
5/15/2019	EURZAR.fx	11:30:00 AM	15.95584	15.97423			N/A
5/15/2019	EURZAR.fx	1:30:00 PM	15.97184	15.98397			N/A
5/15/2019	EURZAR.fx	3:30:00 PM	15.96524	15.96823			N/A
5/15/2019	GBPAUD	9:30:00 AM	1.86216	1.86267			N/A
5/15/2019	GBPAUD	11:30:00 AM	1.86413	1.86475			N/A
5/15/2019	GBPAUD	1:30:00 PM	1.86555	1.86602			N/A
5/15/2019	GBPAUD	3:30:00 PM	1.85999	1.85992			N/A
5/15/2019	GBPAUD.fx	9:30:00 AM	1.86256	1.86226			N/A
5/15/2019	GBPAUD.fx	11:30:00 AM	1.86453	1.86436			N/A
5/15/2019	GBPAUD.fx	1:30:00 PM	1.86596	1.86552			N/A
5/15/2019	GBPAUD.fx	3:30:00 PM	1.86039	1.85973			N/A
5/15/2019	GBPCAD	9:30:00 AM	1.73759	1.7382			N/A
5/15/2019	GBPCAD	11:30:00 AM	1.73906	1.73971			N/A
5/15/2019	GBPCAD	1:30:00 PM	1.7397	1.74028			N/A
5/15/2019	GBPCAD	3:30:00 PM	1.73575	1.73432			N/A
5/15/2019	GBPCAD.fx	9:30:00 AM	1.73798	1.73781			N/A
5/15/2019	GBPCAD.fx	11:30:00 AM	1.73946	1.73929			N/A
5/15/2019	GBPCAD.fx	1:30:00 PM	1.74011	1.73979			N/A
5/15/2019	GBPCAD.fx	3:30:00 PM	1.73613	1.73418			N/A

5/15/2019	GBPCHF	9:30:00 AM	1.30177	1.30216			N/A
5/15/2019	GBPCHF	11:30:00 AM	1.29934	1.29966			N/A
5/15/2019	GBPCHF	1:30:00 PM	1.29927	1.29969			N/A
5/15/2019	GBPCHF	3:30:00 PM	1.29661	1.29621			N/A
5/15/2019	GBPCHF.fx	9:30:00 AM	1.30196	1.30197			N/A
5/15/2019	GBPCHF.fx	11:30:00 AM	1.29955	1.29944			N/A
5/15/2019	GBPCHF.fx	1:30:00 PM	1.29946	1.29948			N/A
5/15/2019	GBPCHF.fx	3:30:00 PM	1.29677	1.29625			N/A
5/15/2019	GBPCZK	9:30:00 AM	29.626	29.642			N/A
5/15/2019	GBPCZK	11:30:00 AM	29.608	29.629			N/A
5/15/2019	GBPCZK	1:30:00 PM	29.65	29.659			N/A
5/15/2019	GBPCZK	3:30:00 PM	29.605	29.615			N/A
5/15/2019	GBPDKK	9:30:00 AM	8.597	8.608			N/A
5/15/2019	GBPDKK	11:30:00 AM	8.595	8.606			N/A
5/15/2019	GBPDKK	1:30:00 PM	8.603	8.613			N/A
5/15/2019	GBPDKK	3:30:00 PM	8.59	8.596			N/A
5/15/2019	GBPDKK.fx	9:30:00 AM	8.5949	8.6071			N/A
5/15/2019	GBPDKK.fx	11:30:00 AM	8.5935	8.6059			N/A
5/15/2019	GBPDKK.fx	1:30:00 PM	8.601	8.6133			N/A
5/15/2019	GBPDKK.fx	3:30:00 PM	8.5884	8.5994			N/A
5/15/2019	GBPHKD	9:30:00 AM	10.1262	10.1314			N/A
5/15/2019	GBPHKD	11:30:00 AM	10.1299	10.1357			N/A
5/15/2019	GBPHKD	1:30:00 PM	10.1234	10.1276			N/A
5/15/2019	GBPHKD	3:30:00 PM	10.0982	10.0993			N/A
5/15/2019	GBPHUF	9:30:00 AM	373.61	374			N/A
5/15/2019	GBPHUF	11:30:00 AM	373.73	374.17			N/A
5/15/2019	GBPHUF	1:30:00 PM	374.08	374.36			N/A
5/15/2019	GBPHUF	3:30:00 PM	373.61	373.85			N/A
5/15/2019	GBPJPY	9:30:00 AM	141.559	141.596			N/A
5/15/2019	GBPJPY	11:30:00 AM	141.404	141.426			N/A
5/15/2019	GBPJPY	1:30:00 PM	141.001	141.021			N/A
5/15/2019	GBPJPY	3:30:00 PM	140.61	140.587		2000	N/A
5/15/2019	GBPJPY.fx	9:30:00 AM	141.578	141.575			N/A
5/15/2019	GBPJPY.fx	11:30:00 AM	141.424	141.405			N/A

5/15/2019	GBPJPY.fx	1:30:00 PM	141.022	141			N/A
5/15/2019	GBPJPY.fx	3:30:00 PM	140.623	140.576			N/A
5/15/2019	GBPMXN	9:30:00 AM	24.7132	24.7265			N/A
5/15/2019	GBPMXN	11:30:00 AM	24.7221	24.7374			N/A
5/15/2019	GBPMXN	1:30:00 PM	24.751	24.7554			N/A
5/15/2019	GBPMXN	3:30:00 PM	24.7035	24.7089			N/A
5/15/2019	GBPNOK	9:30:00 AM	11.2852	11.2953			N/A
5/15/2019	GBPNOK	11:30:00 AM	11.2909	11.3015			N/A
5/15/2019	GBPNOK	1:30:00 PM	11.2899	11.2974			N/A
5/15/2019	GBPNOK	3:30:00 PM	11.2666	11.2749			N/A
5/15/2019	GBPNOK.fx	9:30:00 AM	11.28999	11.29058			N/A
5/15/2019	GBPNOK.fx	11:30:00 AM	11.29599	11.29645			N/A
5/15/2019	GBPNOK.fx	1:30:00 PM	11.295	11.29228			N/A
5/15/2019	GBPNOK.fx	3:30:00 PM	11.27148	11.27122			N/A
5/15/2019	GBPNZD	9:30:00 AM	1.96475	1.96514			N/A
5/15/2019	GBPNZD	11:30:00 AM	1.9669	1.96758			N/A
5/15/2019	GBPNZD	1:30:00 PM	1.96802	1.9683			N/A
5/15/2019	GBPNZD	3:30:00 PM	1.96334	1.96346			N/A
5/15/2019	GBPNZD.fx	9:30:00 AM	1.96511	1.96477			N/A
5/15/2019	GBPNZD.fx	11:30:00 AM	1.96729	1.96718			N/A
5/15/2019	GBPNZD.fx	1:30:00 PM	1.96839	1.96792			N/A
5/15/2019	GBPNZD.fx	3:30:00 PM	1.9637	1.9632			N/A
5/15/2019	GBPPLN	9:30:00 AM	4.9628	4.9635			N/A
5/15/2019	GBPPLN	11:30:00 AM	4.9626	4.9626			N/A
5/15/2019	GBPPLN	1:30:00 PM	4.9671	4.9685			N/A
5/15/2019	GBPPLN	3:30:00 PM	4.9577	4.957			N/A
5/15/2019	GBPPLN.fx	9:30:00 AM	4.96055	4.96552			N/A
5/15/2019	GBPPLN.fx	11:30:00 AM	4.96051	4.96454			N/A
5/15/2019	GBPPLN.fx	1:30:00 PM	4.96518	4.97058			N/A
5/15/2019	GBPPLN.fx	3:30:00 PM	4.95546	4.96068			N/A
5/15/2019	GBPSEK	9:30:00 AM	12.3953	12.4034			N/A
5/15/2019	GBPSEK	11:30:00 AM	12.395	12.4037			N/A
5/15/2019	GBPSEK	1:30:00 PM	12.4083	12.4169			N/A
5/15/2019	GBPSEK	3:30:00 PM	12.3909	12.389			N/A

5/15/2019	GBPSEK.fx	9:30:00 AM	12.39154	12.40713			N/A
5/15/2019	GBPSEK.fx	11:30:00 AM	12.39154	12.40697			N/A
5/15/2019	GBPSEK.fx	1:30:00 PM	12.40493	12.42027			N/A
5/15/2019	GBPSEK.fx	3:30:00 PM	12.38671	12.39562			N/A
5/15/2019	GBPSGD	9:30:00 AM	1.7659	1.7665			N/A
5/15/2019	GBPSGD	11:30:00 AM	1.7664	1.7671			N/A
5/15/2019	GBPSGD	1:30:00 PM	1.7665	1.7672			N/A
5/15/2019	GBPSGD	3:30:00 PM	1.7623	1.7624			N/A
5/15/2019	GBPSGD.fx	9:30:00 AM	1.764	1.76825			N/A
5/15/2019	GBPSGD.fx	11:30:00 AM	1.76454	1.76888			N/A
5/15/2019	GBPSGD.fx	1:30:00 PM	1.76468	1.76896			N/A
5/15/2019	GBPSGD.fx	3:30:00 PM	1.76042	1.76455			N/A
5/15/2019	GBPUSD	9:30:00 AM	1.29067	1.29066			N/A
5/15/2019	GBPUSD	11:30:00 AM	1.29118	1.29118			N/A
5/15/2019	GBPUSD	1:30:00 PM	1.2903	1.29027			N/A
5/15/2019	GBPUSD	3:30:00 PM	1.28736	1.28679			N/A
5/15/2019	GBPUSD.fx	9:30:00 AM	1.29073	1.2906			N/A
5/15/2019	GBPUSD.fx	11:30:00 AM	1.29124	1.29111			N/A
5/15/2019	GBPUSD.fx	1:30:00 PM	1.29036	1.2902			N/A
5/15/2019	GBPUSD.fx	3:30:00 PM	1.28739	1.28683			N/A
5/15/2019	GBPZAR	9:30:00 AM	18.3818	18.4057			N/A
5/15/2019	GBPZAR	11:30:00 AM	18.3713	18.3968			N/A
5/15/2019	GBPZAR	1:30:00 PM	18.4051	18.4267			N/A
5/15/2019	GBPZAR	3:30:00 PM	18.3673	18.376			N/A
5/15/2019	GBPZAR.fx	9:30:00 AM	18.3892	18.3993			N/A
5/15/2019	GBPZAR.fx	11:30:00 AM	18.3786	18.3893			N/A
5/15/2019	GBPZAR.fx	1:30:00 PM	18.4118	18.419			N/A
5/15/2019	GBPZAR.fx	3:30:00 PM	18.3734	18.3689			N/A
5/15/2019	GOLD	9:30:00 AM	1294.54	1294.83			N/A
5/15/2019	GOLD	11:30:00 AM	1297.42	1297.64			N/A
5/15/2019	GOLD	1:30:00 PM	1298.15	1298.42			N/A
5/15/2019	GOLD	3:30:00 PM	1299.86	1299.29			N/A
5/15/2019	HKDJPY	9:30:00 AM	13.98	13.98			N/A
5/15/2019	HKDJPY	11:30:00 AM					N/A

5/15/2019	HKDJPY	1:30:00 PM	13.92	13.93			N/A
5/15/2019	HKDJPY	3:30:00 PM	13.92	13.92			N/A
5/15/2019	HKDJPY.fx	9:30:00 AM	13.969	13.977			N/A
5/15/2019	HKDJPY.fx	11:30:00 AM	13.948	13.955			N/A
5/15/2019	HKDJPY.fx	1:30:00 PM	13.918	13.925			N/A
5/15/2019	HKDJPY.fx	3:30:00 PM	13.913	13.915			N/A
5/15/2019	HUFJPY	9:30:00 AM	0.3789	0.3792			N/A
5/15/2019	HUFJPY	11:30:00 AM	0.3783	0.3786			N/A
5/15/2019	HUFJPY	1:30:00 PM	0.3769	0.3772			N/A
5/15/2019	HUFJPY	3:30:00 PM	0.3762	0.3765			N/A
5/15/2019	JP225.i	9:30:00 AM	21175.5	21188.83			N/A
5/15/2019	JP225.i	11:30:00 AM	21073.83	21086.33			N/A
5/15/2019	JP225.i	1:30:00 PM	20963.83	20978.83			N/A
5/15/2019	JP225.i	3:30:00 PM	20944.67	20938.83			N/A
5/15/2019	MXNJPY	9:30:00 AM	5.73	5.74			N/A
5/15/2019	MXNJPY	11:30:00 AM	5.72	5.73			N/A
5/15/2019	MXNJPY	1:30:00 PM	5.7	5.7			N/A
5/15/2019	MXNJPY	3:30:00 PM	5.69	5.7			N/A
5/15/2019	NASDAQ.i	9:30:00 AM					N/A
5/15/2019	NASDAQ.i	11:30:00 AM					N/A
5/15/2019	NASDAQ.i	1:30:00 PM					N/A
5/15/2019	NASDAQ.i	3:30:00 PM					N/A
5/15/2019	NOKJPY	9:30:00 AM	12.53	12.56			N/A
5/15/2019	NOKJPY	11:30:00 AM	12.51	12.54			N/A
5/15/2019	NOKJPY	1:30:00 PM	12.48	12.5			N/A
5/15/2019	NOKJPY	3:30:00 PM	12.46	12.49			N/A
5/15/2019	NOKJPY.fx	9:30:00 AM	12.535	12.541			N/A
5/15/2019	NOKJPY.fx	11:30:00 AM	12.515	12.522			N/A
5/15/2019	NOKJPY.fx	1:30:00 PM	12.484	12.488			N/A
5/15/2019	NOKJPY.fx	3:30:00 PM	12.473	12.476			N/A
5/15/2019	NZDCAD	9:30:00 AM	0.88411	0.88477			N/A
5/15/2019	NZDCAD	11:30:00 AM	0.88384	0.88454			N/A
5/15/2019	NZDCAD	1:30:00 PM	0.88372	0.88439			N/A
5/15/2019	NZDCAD	3:30:00 PM	0.88375	0.88339			N/A

5/15/2019	NZDCAD.fx	9:30:00 AM	0.88444	0.88444			N/A
5/15/2019	NZDCAD.fx	11:30:00 AM	0.88418	0.8842			N/A
5/15/2019	NZDCAD.fx	1:30:00 PM	0.88406	0.88406			N/A
5/15/2019	NZDCAD.fx	3:30:00 PM	0.88407	0.88344			N/A
5/15/2019	NZDCHF	9:30:00 AM	0.66227	0.66294			N/A
5/15/2019	NZDCHF	11:30:00 AM	0.66021	0.66093			N/A
5/15/2019	NZDCHF	1:30:00 PM	0.65996	0.66054			N/A
5/15/2019	NZDCHF	3:30:00 PM	0.66014	0.66054			N/A
5/15/2019	NZDCHF.fx	9:30:00 AM	0.6626	0.66259			N/A
5/15/2019	NZDCHF.fx	11:30:00 AM	0.66057	0.66058			N/A
5/15/2019	NZDCHF.fx	1:30:00 PM	0.66029	0.66019			N/A
5/15/2019	NZDCHF.fx	3:30:00 PM	0.66046	0.66032			N/A
5/15/2019	NZDCZK	9:30:00 AM	15.076	15.088			N/A
5/15/2019	NZDCZK	11:30:00 AM					N/A
5/15/2019	NZDCZK	1:30:00 PM	15.062	15.07			N/A
5/15/2019	NZDCZK	3:30:00 PM	15.078	15.084			N/A
5/15/2019	NZDDKK	9:30:00 AM					N/A
5/15/2019	NZDDKK	11:30:00 AM					N/A
5/15/2019	NZDDKK	1:30:00 PM	4.37	4.374			N/A
5/15/2019	NZDDKK	3:30:00 PM	4.372	4.375			N/A
5/15/2019	NZDHKD	9:30:00 AM	5.1534	5.1559			N/A
5/15/2019	NZDHKD	11:30:00 AM	5.1491	5.152			N/A
5/15/2019	NZDHKD	1:30:00 PM	5.143	5.1455			N/A
5/15/2019	NZDHKD	3:30:00 PM	5.1422	5.1443			N/A
5/15/2019	NZDHUF	9:30:00 AM	190.09	190.39			N/A
5/15/2019	NZDHUF	11:30:00 AM	189.93	190.23			N/A
5/15/2019	NZDHUF	1:30:00 PM	189.99	190.22			N/A
5/15/2019	NZDHUF	3:30:00 PM	190.24	190.45			N/A
5/15/2019	NZDJPY	9:30:00 AM	72.02	72.084			N/A
5/15/2019	NZDJPY	11:30:00 AM	71.849	71.92			N/A
5/15/2019	NZDJPY	1:30:00 PM	71.612	71.682			N/A
5/15/2019	NZDJPY	3:30:00 PM	71.601	71.636			N/A
5/15/2019	NZDJPY.fx	9:30:00 AM	72.053	72.052			N/A
5/15/2019	NZDJPY.fx	11:30:00 AM	71.882	71.887			N/A

5/15/2019	NZDJPY.fx	1:30:00 PM	71.644	71.649			N/A
5/15/2019	NZDJPY.fx	3:30:00 PM	71.622	71.605			N/A
5/15/2019	NZDMXN	9:30:00 AM	12.5769	12.5824			N/A
5/15/2019	NZDMXN	11:30:00 AM	12.5665	12.5725			N/A
5/15/2019	NZDMXN	1:30:00 PM	12.5738	12.5762			N/A
5/15/2019	NZDMXN	3:30:00 PM	12.5806	12.5853			N/A
5/15/2019	NZDNOK	9:30:00 AM	5.7409	5.7446			N/A
5/15/2019	NZDNOK	11:30:00 AM	5.737	5.7407			N/A
5/15/2019	NZDNOK	1:30:00 PM	5.7329	5.7339			N/A
5/15/2019	NZDNOK	3:30:00 PM	5.7335	5.7354			N/A
5/15/2019	NZDPLN	9:30:00 AM	2.5241	2.5255			N/A
5/15/2019	NZDPLN	11:30:00 AM	2.5209	2.5223			N/A
5/15/2019	NZDPLN	1:30:00 PM	2.5223	2.5236			N/A
5/15/2019	NZDPLN	3:30:00 PM	2.5231	2.5241			N/A
5/15/2019	NZDSEK	9:30:00 AM	6.3047	6.3114			N/A
5/15/2019	NZDSEK	11:30:00 AM	6.2973	6.3042			N/A
5/15/2019	NZDSEK	1:30:00 PM	6.3007	6.3071			N/A
5/15/2019	NZDSEK	3:30:00 PM	6.3062	6.3094			N/A
5/15/2019	NZDSGD	9:30:00 AM	0.8985	0.8992			N/A
5/15/2019	NZDSGD	11:30:00 AM	0.8978	0.8984			N/A
5/15/2019	NZDSGD	1:30:00 PM	0.8975	0.898			N/A
5/15/2019	NZDSGD	3:30:00 PM	0.8975	0.8979			N/A
5/15/2019	NZDSGD.fx	9:30:00 AM	0.89851	0.89909			N/A
5/15/2019	NZDSGD.fx	11:30:00 AM	0.89778	0.89837			N/A
5/15/2019	NZDSGD.fx	1:30:00 PM	0.89748	0.89791			N/A
5/15/2019	NZDSGD.fx	3:30:00 PM	0.89743	0.8979			N/A
5/15/2019	NZDUSD	9:30:00 AM	0.65674	0.65685			N/A
5/15/2019	NZDUSD	11:30:00 AM	0.65625	0.65638			N/A
5/15/2019	NZDUSD	1:30:00 PM	0.6555	0.65557			N/A
5/15/2019	NZDUSD	3:30:00 PM	0.65556	0.65547			N/A
5/15/2019	NZDUSD.fx	9:30:00 AM	0.6568	0.65687			N/A
5/15/2019	NZDUSD.fx	11:30:00 AM	0.65633	0.65638			N/A
5/15/2019	NZDUSD.fx	1:30:00 PM	0.65559	0.65558			N/A
5/15/2019	NZDUSD.fx	3:30:00 PM	0.65564	0.65554			N/A

5/15/2019	NZDZAR	9:30:00 AM	9.3479	9.3637			N/A
5/15/2019	NZDZAR	11:30:00 AM	9.3329	9.3481			N/A
5/15/2019	NZDZAR	1:30:00 PM	9.3429	9.3573			N/A
5/15/2019	NZDZAR	3:30:00 PM	9.3447	9.3546			N/A
5/15/2019	SEKJPY	9:30:00 AM	11.42	11.43			N/A
5/15/2019	SEKJPY	11:30:00 AM	11.4	11.42			N/A
5/15/2019	SEKJPY	1:30:00 PM	11.35	11.37			N/A
5/15/2019	SEKJPY	3:30:00 PM	11.35	11.35			N/A
5/15/2019	SEKJPY.fx	9:30:00 AM	11.408	11.426			N/A
5/15/2019	SEKJPY.fx	11:30:00 AM	11.395	11.414			N/A
5/15/2019	SEKJPY.fx	1:30:00 PM	11.351	11.37			N/A
5/15/2019	SEKJPY.fx	3:30:00 PM	11.34	11.352			N/A
5/15/2019	SGDJPY	9:30:00 AM	80.16	80.16			N/A
5/15/2019	SGDJPY	11:30:00 AM	80.05	80.04			N/A
5/15/2019	SGDJPY	1:30:00 PM	79.78	79.81			N/A
5/15/2019	SGDJPY	3:30:00 PM	79.76	79.76			N/A
5/15/2019	SILVER	9:30:00 AM	14.61	14.99			N/A
5/15/2019	SILVER	11:30:00 AM	14.64	15.01			N/A
5/15/2019	SILVER	1:30:00 PM	14.63	15			N/A
5/15/2019	SILVER	3:30:00 PM	14.62	14.99			N/A
5/15/2019	SPX500.i	9:30:00 AM	2846.3	2847.1			N/A
5/15/2019	SPX500.i	11:30:00 AM	2837.8	2838.35			N/A
5/15/2019	SPX500.i	1:30:00 PM	2827.8	2828.6			N/A
5/15/2019	SPX500.i	3:30:00 PM	2825.1	2822.39			N/A
5/15/2019	UK100.i	9:30:00 AM	7268.71	7269.04			N/A
5/15/2019	UK100.i	11:30:00 AM	7252.79	7251.79			N/A
5/15/2019	UK100.i	1:30:00 PM	7237.54	7237.79			N/A
5/15/2019	UK100.i	3:30:00 PM	7240.54	7237.29			N/A
5/15/2019	USDCAD	9:30:00 AM	1.34654	1.34658			N/A
5/15/2019	USDCAD	11:30:00 AM	1.34716	1.34717			N/A
5/15/2019	USDCAD	1:30:00 PM	1.34855	1.3485			N/A
5/15/2019	USDCAD	3:30:00 PM	1.34867	1.3476			N/A
5/15/2019	USDCAD.fx	9:30:00 AM	1.34657	1.34655			N/A
5/15/2019	USDCAD.fx	11:30:00 AM	1.34719	1.34713			N/A

5/15/2019	USDCAD.fx	1:30:00 PM	1.34859	1.34847			N/A
5/15/2019	USDCAD.fx	3:30:00 PM	1.34869	1.34766			N/A
5/15/2019	USDCHE	9:30:00 AM	1.00873	1.00883			N/A
5/15/2019	USDCHE	11:30:00 AM	1.00637	1.00644			N/A
5/15/2019	USDCHE	1:30:00 PM	1.00712	1.00717			N/A
5/15/2019	USDCHE	3:30:00 PM	1.00755	1.00723			N/A
5/15/2019	USDCHE.fx	9:30:00 AM	1.00877	1.00876			N/A
5/15/2019	USDCHE.fx	11:30:00 AM	1.00644	1.00637			N/A
5/15/2019	USDCHE.fx	1:30:00 PM	1.00717	1.00711			N/A
5/15/2019	USDCHE.fx	3:30:00 PM	1.0075	1.00725			N/A
5/15/2019	USDCZK	9:30:00 AM	22.972	22.992			N/A
5/15/2019	USDCZK	11:30:00 AM	22.944	22.965			N/A
5/15/2019	USDCZK	1:30:00 PM	22.994	23.012			N/A
5/15/2019	USDCZK	3:30:00 PM	23.021	23.034			N/A
5/15/2019	USDCZK.fx	9:30:00 AM	22.9795	22.9842			N/A
5/15/2019	USDCZK.fx	11:30:00 AM	22.954	22.9556			N/A
5/15/2019	USDCZK.fx	1:30:00 PM	23.002	23.0032			N/A
5/15/2019	USDCZK.fx	3:30:00 PM	23.0277	23.0303			N/A
5/15/2019	USDDKK	9:30:00 AM	6.6629	6.6658			N/A
5/15/2019	USDDKK	11:30:00 AM	6.6585	6.6619			N/A
5/15/2019	USDDKK	1:30:00 PM	6.6685	6.6724			N/A
5/15/2019	USDDKK	3:30:00 PM	6.6754	6.6772			N/A
5/15/2019	USDDKK.fx	9:30:00 AM	6.66319	6.66372			N/A
5/15/2019	USDDKK.fx	11:30:00 AM	6.6589	6.65964			N/A
5/15/2019	USDDKK.fx	1:30:00 PM	6.66894	6.67037			N/A
5/15/2019	USDDKK.fx	3:30:00 PM	6.6757	6.67513			N/A
5/15/2019	USDHKD	9:30:00 AM	7.8495	7.8499			N/A
5/15/2019	USDHKD	11:30:00 AM	7.8495	7.85			N/A
5/15/2019	USDHKD	1:30:00 PM	7.8495	7.8498			N/A
5/15/2019	USDHKD	3:30:00 PM	7.8496	7.85			N/A
5/15/2019	USDHKD.fx	9:30:00 AM	7.84947	7.84992			N/A
5/15/2019	USDHKD.fx	11:30:00 AM	7.8495	7.85003			N/A
5/15/2019	USDHKD.fx	1:30:00 PM	7.8495	7.85002			N/A
5/15/2019	USDHKD.fx	3:30:00 PM	7.8495	7.85007			N/A

5/15/2019	USDHUF	9:30:00 AM	289.57	290			N/A
5/15/2019	USDHUF	11:30:00 AM	289.52	289.94			N/A
5/15/2019	USDHUF	1:30:00 PM	290	290.48			N/A
5/15/2019	USDHUF	3:30:00 PM	290.51	290.89			N/A
5/15/2019	USDHUF.fx	9:30:00 AM	289.772	289.775			N/A
5/15/2019	USDHUF.fx	11:30:00 AM	289.733	289.728			N/A
5/15/2019	USDHUF.fx	1:30:00 PM	290.205	290.267			N/A
5/15/2019	USDHUF.fx	3:30:00 PM	290.723	290.716			N/A
5/15/2019	USDINR	9:30:00 AM	65.22	75.21			N/A
5/15/2019	USDINR	11:30:00 AM	65.24	75.22			N/A
5/15/2019	USDINR	1:30:00 PM					N/A
5/15/2019	USDINR	3:30:00 PM					N/A
5/15/2019	USDJPY	9:30:00 AM	109.69	109.697			N/A
5/15/2019	USDJPY	11:30:00 AM	109.519	109.526			N/A
5/15/2019	USDJPY	1:30:00 PM	109.284	109.289			N/A
5/15/2019	USDJPY	3:30:00 PM	109.289	109.211		1600	N/A
5/15/2019	USDJPY.fx	9:30:00 AM	109.695	109.69			N/A
5/15/2019	USDJPY.fx	11:30:00 AM	109.525	109.519			N/A
5/15/2019	USDJPY.fx	1:30:00 PM	109.29	109.282			N/A
5/15/2019	USDJPY.fx	3:30:00 PM	109.287	109.205			N/A
5/15/2019	USDMXN	9:30:00 AM	19.154	19.162			N/A
5/15/2019	USDMXN	11:30:00 AM	19.154	19.161			N/A
5/15/2019	USDMXN	1:30:00 PM	19.191	19.192			N/A
5/15/2019	USDMXN	3:30:00 PM	19.203	19.205			N/A
5/15/2019	USDMXN.f	9:30:00 AM	19.1573	19.1592			N/A
5/15/2019	USDMXN.f	11:30:00 AM	19.1576	19.1572			N/A
5/15/2019	USDMXN.f	1:30:00 PM	19.1946	19.1886			N/A
5/15/2019	USDMXN.f	3:30:00 PM	19.2059	19.2014			N/A
5/15/2019	USDNOK	9:30:00 AM	8.7432	8.7509			N/A
5/15/2019	USDNOK	11:30:00 AM	8.7437	8.7513			N/A
5/15/2019	USDNOK	1:30:00 PM	8.7484	8.7545			N/A
5/15/2019	USDNOK	3:30:00 PM	8.7533	8.7587			N/A
5/15/2019	USDNOK.fx	9:30:00 AM	8.74726	8.74663			N/A
5/15/2019	USDNOK.fx	11:30:00 AM	8.74765	8.74674			N/A

5/15/2019	USDNOK.fx	1:30:00 PM	8.75271	8.74999			N/A
5/15/2019	USDNOK.fx	3:30:00 PM	8.75628	8.75419			N/A
5/15/2019	USDPLN	9:30:00 AM	3.8449	3.846			N/A
5/15/2019	USDPLN	11:30:00 AM	3.8435	3.8435			N/A
5/15/2019	USDPLN	1:30:00 PM	3.8494	3.8509			N/A
5/15/2019	USDPLN	3:30:00 PM	3.8515	3.8518			N/A
5/15/2019	USDPLN.fx	9:30:00 AM	3.84413	3.84663			N/A
5/15/2019	USDPLN.fx	11:30:00 AM	3.84267	3.84421			N/A
5/15/2019	USDPLN.fx	1:30:00 PM	3.84868	3.85161			N/A
5/15/2019	USDPLN.fx	3:30:00 PM	3.85045	3.85316			N/A
5/15/2019	USDRUB	9:30:00 AM					N/A
5/15/2019	USDRUB	11:30:00 AM	64.584	64.971			N/A
5/15/2019	USDRUB	1:30:00 PM	64.632	65.013			N/A
5/15/2019	USDRUB	3:30:00 PM	64.58	64.967			N/A
5/15/2019	USDSEK	9:30:00 AM	9.6053	9.6091			N/A
5/15/2019	USDSEK	11:30:00 AM	9.6008	9.6047			N/A
5/15/2019	USDSEK	1:30:00 PM	9.6173	9.6216			N/A
5/15/2019	USDSEK	3:30:00 PM	9.6284	9.6267			N/A
5/15/2019	USDSEK.fx	9:30:00 AM	9.608	9.60694			N/A
5/15/2019	USDSEK.fx	11:30:00 AM	9.60361	9.60251			N/A
5/15/2019	USDSEK.fx	1:30:00 PM	9.61995	9.61976			N/A
5/15/2019	USDSEK.fx	3:30:00 PM	9.6308	9.62577			N/A
5/15/2019	USDSGD	9:30:00 AM	1.3683	1.3686			N/A
5/15/2019	USDSGD	11:30:00 AM	1.3681	1.3684			N/A
5/15/2019	USDSGD	1:30:00 PM	1.3692	1.3696			N/A
5/15/2019	USDSGD	3:30:00 PM	1.3692	1.3695			N/A
5/15/2019	USDSGD.fx	9:30:00 AM	1.3682	1.36862			N/A
5/15/2019	USDSGD.fx	11:30:00 AM	1.36804	1.36853			N/A
5/15/2019	USDSGD.fx	1:30:00 PM	1.3691	1.36958			N/A
5/15/2019	USDSGD.fx	3:30:00 PM	1.36904	1.36949			N/A
5/15/2019	USDZAR	9:30:00 AM	14.2433	14.2591			N/A
5/15/2019	USDZAR	11:30:00 AM	14.23	14.2446			N/A
5/15/2019	USDZAR	1:30:00 PM	14.2662	14.2777			N/A
5/15/2019	USDZAR	3:30:00 PM	14.274	14.2713			N/A

5/15/2019	USDZAR.fx	9:30:00 AM					N/A
5/15/2019	USDZAR.fx	11:30:00 AM					N/A
5/15/2019	USDZAR.fx	1:30:00 PM					N/A
5/15/2019	USDZAR.fx	3:30:00 PM					N/A
5/15/2019	XAUUSD	9:30:00 AM	1294.55	1294.83			N/A
5/15/2019	XAUUSD	11:30:00 AM	1297.42	1297.63			N/A
5/15/2019	XAUUSD	1:30:00 PM	1298.16	1298.42			N/A
5/15/2019	XAUUSD	3:30:00 PM	1299.85	1299.28			N/A
5/15/2019	ZARJPY	9:30:00 AM	7.68	7.7			N/A
5/15/2019	ZARJPY	11:30:00 AM	7.67	7.69			N/A
5/15/2019	ZARJPY	1:30:00 PM	7.64	7.66			N/A
5/15/2019	ZARJPY	3:30:00 PM	7.64	7.65			N/A
5/15/2019	ZARJPY.fx	9:30:00 AM	7.695	7.698			N/A
5/15/2019	ZARJPY.fx	11:30:00 AM	7.691	7.694			N/A
5/15/2019	ZARJPY.fx	1:30:00 PM	7.657	7.658			N/A
5/15/2019	ZARJPY.fx	3:30:00 PM	7.654	7.65			N/A
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5/16/2019	#Bitcoin	9:30:00 AM	8023.65	8053.45			N/A
5/16/2019	#Bitcoin	11:30:00 AM	8014.5	8042.3			N/A
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5/16/2019	#CL.f	9:30:00 AM	62.64	62.664			N/A
5/16/2019	#CL.f	11:30:00 AM	62.704	62.714			N/A
5/16/2019	#CL.f	1:30:00 PM	62.78	62.803			N/A
5/16/2019	#CL.f	3:30:00 PM	63.094	63.117			N/A
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5/16/2019	AUDCAD	11:30:00 AM	0.9292	0.92971			N/A
5/16/2019	AUDCAD	1:30:00 PM	0.92828	0.92884			N/A
5/16/2019	AUDCAD	3:30:00 PM	0.92772	0.92823			N/A
5/16/2019	AUDCAD.fx	9:30:00 AM	0.92844	0.92835			N/A
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5/16/2019	AUDCAD.fx	3:30:00 PM	0.92805	0.92788			N/A
5/16/2019	AUDCHF	9:30:00 AM	0.69609	0.69666			N/A
5/16/2019	AUDCHF	11:30:00 AM	0.69832	0.6989			N/A
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5/16/2019	AUDCHF	3:30:00 PM	0.6978	0.69816			N/A
5/16/2019	AUDCHF.fx	9:30:00 AM	0.69643	0.69632			N/A
5/16/2019	AUDCHF.fx	11:30:00 AM	0.69866	0.69855			N/A
5/16/2019	AUDCHF.fx	1:30:00 PM	0.69917	0.69906			N/A
5/16/2019	AUDCHF.fx	3:30:00 PM	0.69815	0.69783			N/A

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5/16/2019	AUDDKK	9:30:00 AM	4.6016	4.6055			N/A
5/16/2019	AUDDKK	11:30:00 AM	4.6095	4.6138			N/A
5/16/2019	AUDDKK	1:30:00 PM	4.6138	4.6175			N/A
5/16/2019	AUDDKK	3:30:00 PM	4.6079	4.6116			N/A
5/16/2019	AUDHKD	9:30:00 AM	5.4192	5.4223			N/A
5/16/2019	AUDHKD	11:30:00 AM	5.4336	5.4375			N/A
5/16/2019	AUDHKD	1:30:00 PM	5.4359	5.4383			N/A
5/16/2019	AUDHKD	3:30:00 PM	5.4252	5.4291			N/A
5/16/2019	AUDHUF	9:30:00 AM	200.07	200.17			N/A
5/16/2019	AUDHUF	11:30:00 AM	200.24	200.46			N/A
5/16/2019	AUDHUF	1:30:00 PM	200.27	200.36			N/A
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5/16/2019	AUDJPY	11:30:00 AM	75.831	75.878			N/A
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5/16/2019	AUDJPY	3:30:00 PM	75.871	75.879			N/A
5/16/2019	AUDJPY.fx	9:30:00 AM	75.617	75.601			N/A
5/16/2019	AUDJPY.fx	11:30:00 AM	75.865	75.842			N/A
5/16/2019	AUDJPY.fx	1:30:00 PM	75.982	75.974			N/A
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5/16/2019	AUDNOK	11:30:00 AM	6.022	6.0266			N/A
5/16/2019	AUDNOK	1:30:00 PM	6.016	6.02			N/A
5/16/2019	AUDNOK	3:30:00 PM	6.0171	6.021			N/A
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5/16/2019	AUDNOK.fx	3:30:00 PM	6.0186	6.0193			N/A
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5/16/2019	AUDNZD	3:30:00 PM	1.05268	1.05339			N/A
5/16/2019	AUDNZD.fx	9:30:00 AM	1.05454	1.05451			N/A
5/16/2019	AUDNZD.fx	11:30:00 AM	1.05399	1.05387			N/A
5/16/2019	AUDNZD.fx	1:30:00 PM	1.05308	1.05305			N/A
5/16/2019	AUDNZD.fx	3:30:00 PM	1.05312	1.05293			N/A
5/16/2019	AUDPLN	9:30:00 AM	2.6496	2.6524			N/A
5/16/2019	AUDPLN	11:30:00 AM	2.6518	2.6548			N/A
5/16/2019	AUDPLN	1:30:00 PM	2.6526	2.6552			N/A
5/16/2019	AUDPLN	3:30:00 PM	2.6505	2.6526			N/A
5/16/2019	AUDSEK	9:30:00 AM	6.6355	6.6376			N/A
5/16/2019	AUDSEK	11:30:00 AM	6.6464	6.6483			N/A
5/16/2019	AUDSEK	1:30:00 PM	6.6378	6.6402			N/A
5/16/2019	AUDSEK	3:30:00 PM	6.6374	6.6394			N/A
5/16/2019	AUDSEK.fx	9:30:00 AM	6.631	6.642			N/A
5/16/2019	AUDSEK.fx	11:30:00 AM	6.6419	6.6527			N/A
5/16/2019	AUDSEK.fx	1:30:00 PM	6.6333	6.6446			N/A
5/16/2019	AUDSEK.fx	3:30:00 PM	6.6325	6.6438			N/A
5/16/2019	AUDSGD	9:30:00 AM	0.9456	0.9458			N/A
5/16/2019	AUDSGD	11:30:00 AM	0.9479	0.948			N/A
5/16/2019	AUDSGD	1:30:00 PM	0.948	0.9482			N/A
5/16/2019	AUDSGD	3:30:00 PM	0.9468	0.9469			N/A
5/16/2019	AUDSGD.fx	9:30:00 AM	0.94574	0.9457			N/A
5/16/2019	AUDSGD.fx	11:30:00 AM	0.94796	0.94793			N/A
5/16/2019	AUDSGD.fx	1:30:00 PM	0.94811	0.94805			N/A
5/16/2019	AUDSGD.fx	3:30:00 PM	0.94684	0.94681			N/A
5/16/2019	AUDUSD	9:30:00 AM	0.69081	0.69077			N/A
5/16/2019	AUDUSD	11:30:00 AM	0.69266	0.69266			N/A
5/16/2019	AUDUSD	1:30:00 PM	0.69287	0.69286			N/A
5/16/2019	AUDUSD	3:30:00 PM	0.69166	0.69164			N/A

5/16/2019	AUDUSD.fx	9:30:00 AM	0.69085	0.69072			N/A
5/16/2019	AUDUSD.fx	11:30:00 AM	0.69271	0.6926			N/A
5/16/2019	AUDUSD.fx	1:30:00 PM	0.69292	0.6928			N/A
5/16/2019	AUDUSD.fx	3:30:00 PM	0.69172	0.69158			N/A
5/16/2019	AUDZAR	9:30:00 AM	9.8407	9.8427			N/A
5/16/2019	AUDZAR	11:30:00 AM	9.82	9.8309			N/A
5/16/2019	AUDZAR	1:30:00 PM	9.7847	9.795			N/A
5/16/2019	AUDZAR	3:30:00 PM	9.7689	9.7781			N/A
5/16/2019	AUS200.i	9:30:00 AM					N/A
5/16/2019	AUS200.i	11:30:00 AM	6336.75	6338.75			N/A
5/16/2019	AUS200.i	1:30:00 PM	6357.75	6358.25			N/A
5/16/2019	AUS200.i	3:30:00 PM	6365.65	6365.75			N/A
5/16/2019	BCHUSD	9:30:00 AM	435.97	435.85			N/A
5/16/2019	BCHUSD	11:30:00 AM	432.6	433.65			N/A
5/16/2019	BCHUSD	1:30:00 PM	407.45	409.45			N/A
5/16/2019	BCHUSD	3:30:00 PM	410.24	410.3			N/A
5/16/2019	CADCHF	9:30:00 AM	0.74967	0.75038			N/A
5/16/2019	CADCHF	11:30:00 AM	0.75121	0.75185			N/A
5/16/2019	CADCHF	1:30:00 PM	0.75251	0.75315			N/A
5/16/2019	CADCHF	3:30:00 PM	0.75189	0.7522			N/A
5/16/2019	CADCHF.fx	9:30:00 AM	0.75001	0.75003			N/A
5/16/2019	CADCHF.fx	11:30:00 AM	0.75156	0.75148			N/A
5/16/2019	CADCHF.fx	1:30:00 PM	0.75284	0.75279			N/A
5/16/2019	CADCHF.fx	3:30:00 PM	0.75223	0.75188			N/A
5/16/2019	CADCZK	9:30:00 AM	17.055	17.069			N/A
5/16/2019	CADCZK	11:30:00 AM	17.065	17.08			N/A
5/16/2019	CADCZK	1:30:00 PM	17.08	17.095			N/A
5/16/2019	CADCZK	3:30:00 PM	17.075	17.089			N/A
5/16/2019	CADDDKK	9:30:00 AM					N/A
5/16/2019	CADDDKK	11:30:00 AM					N/A
5/16/2019	CADDDKK	1:30:00 PM	4.969	4.973			N/A
5/16/2019	CADDDKK	3:30:00 PM	4.966	4.969			N/A
5/16/2019	CADHKD	9:30:00 AM	5.8375	5.8414			N/A
5/16/2019	CADHKD	11:30:00 AM	5.8464	5.8501			N/A

5/16/2019	CADHKD	1:30:00 PM	5.8542	5.8576			N/A
5/16/2019	CADHKD	3:30:00 PM	5.8473	5.8512			N/A
5/16/2019	CADHUF	9:30:00 AM	215.57	215.63			N/A
5/16/2019	CADHUF	11:30:00 AM	215.49	215.66			N/A
5/16/2019	CADHUF	1:30:00 PM	215.72	215.74			N/A
5/16/2019	CADHUF	3:30:00 PM	215.52	215.55			N/A
5/16/2019	CADJPY	9:30:00 AM	81.403	81.469			N/A
5/16/2019	CADJPY	11:30:00 AM	81.576	81.632			N/A
5/16/2019	CADJPY	1:30:00 PM	81.788	81.855			N/A
5/16/2019	CADJPY	3:30:00 PM	81.754	81.761			N/A
5/16/2019	CADJPY.fx	9:30:00 AM	81.436	81.434			N/A
5/16/2019	CADJPY.fx	11:30:00 AM	81.609	81.597			N/A
5/16/2019	CADJPY.fx	1:30:00 PM	81.823	81.819			N/A
5/16/2019	CADJPY.fx	3:30:00 PM	81.788	81.731			N/A
5/16/2019	CADMXN	9:30:00 AM	14.1825	14.1947			N/A
5/16/2019	CADMXN	11:30:00 AM	14.1721	14.1831			N/A
5/16/2019	CADMXN	1:30:00 PM	14.1537	14.1652			N/A
5/16/2019	CADMXN	3:30:00 PM	14.17	14.1773			N/A
5/16/2019	CADNOK	9:30:00 AM	6.4845	6.4894			N/A
5/16/2019	CADNOK	11:30:00 AM	6.477	6.4819			N/A
5/16/2019	CADNOK	1:30:00 PM	6.4771	6.4814			N/A
5/16/2019	CADNOK	3:30:00 PM	6.482	6.4845			N/A
5/16/2019	CADPLN	9:30:00 AM	2.8541	2.856			N/A
5/16/2019	CADPLN	11:30:00 AM	2.8534	2.8553			N/A
5/16/2019	CADPLN	1:30:00 PM	2.8568	2.8585			N/A
5/16/2019	CADPLN	3:30:00 PM	2.8557	2.8575			N/A
5/16/2019	CADSEK	9:30:00 AM	7.1448	7.1482			N/A
5/16/2019	CADSEK	11:30:00 AM	7.1486	7.1525			N/A
5/16/2019	CADSEK	1:30:00 PM	7.1463	7.1494			N/A
5/16/2019	CADSEK	3:30:00 PM	7.1502	7.153			N/A
5/16/2019	CADSGD	9:30:00 AM	1.018	1.0183			N/A
5/16/2019	CADSGD	11:30:00 AM	1.019	1.0193			N/A
5/16/2019	CADSGD	1:30:00 PM	1.0203	1.0205			N/A
5/16/2019	CADSGD	3:30:00 PM	1.0194	1.0197			N/A

5/16/2019	CADZAR	9:30:00 AM	10.6011	10.605			N/A
5/16/2019	CADZAR	11:30:00 AM	10.5654	10.5794			N/A
5/16/2019	CADZAR	1:30:00 PM	10.5373	10.5498			N/A
5/16/2019	CADZAR	3:30:00 PM	10.5271	10.5383			N/A
5/16/2019	CHFCZK	9:30:00 AM	22.743	22.756			N/A
5/16/2019	CHFCZK	11:30:00 AM	22.709	22.724			N/A
5/16/2019	CHFCZK	1:30:00 PM	22.691	22.705			N/A
5/16/2019	CHFCZK	3:30:00 PM	22.709	22.721			N/A
5/16/2019	CHFDKK	9:30:00 AM	6.61	6.613			N/A
5/16/2019	CHFDKK	11:30:00 AM	6.601	6.604			N/A
5/16/2019	CHFDKK	1:30:00 PM	6.601	6.604			N/A
5/16/2019	CHFDKK	3:30:00 PM	6.605	6.606			N/A
5/16/2019	CHFDKK.fx	9:30:00 AM	6.6082	6.6145			N/A
5/16/2019	CHFDKK.fx	11:30:00 AM	6.5992	6.6049			N/A
5/16/2019	CHFDKK.fx	1:30:00 PM	6.5993	6.6051			N/A
5/16/2019	CHFDKK.fx	3:30:00 PM	6.603	6.6075			N/A
5/16/2019	CHFHKD	9:30:00 AM	7.7839	7.7878			N/A
5/16/2019	CHFHKD	11:30:00 AM	7.7803	7.7842			N/A
5/16/2019	CHFHKD	1:30:00 PM	7.7767	7.7804			N/A
5/16/2019	CHFHKD	3:30:00 PM	7.7778	7.7784			N/A
5/16/2019	CHFHUF	9:30:00 AM	287.34	287.56			N/A
5/16/2019	CHFHUF	11:30:00 AM	286.66	287.05			N/A
5/16/2019	CHFHUF	1:30:00 PM	286.47	286.65			N/A
5/16/2019	CHFHUF	3:30:00 PM	286.48	286.77			N/A
5/16/2019	CHFJPY	9:30:00 AM	108.543	108.613			N/A
5/16/2019	CHFJPY	11:30:00 AM	108.547	108.609			N/A
5/16/2019	CHFJPY	1:30:00 PM	108.655	108.711			N/A
5/16/2019	CHFJPY	3:30:00 PM	108.686	108.719			N/A
5/16/2019	CHFJPY.fx	9:30:00 AM	108.576	108.579			N/A
5/16/2019	CHFJPY.fx	11:30:00 AM	108.581	108.575			N/A
5/16/2019	CHFJPY.fx	1:30:00 PM	108.689	108.676			N/A
5/16/2019	CHFJPY.fx	3:30:00 PM	108.718	108.685			N/A
5/16/2019	CHFMXN	9:30:00 AM	18.9099	18.9257			N/A
5/16/2019	CHFMXN	11:30:00 AM	18.8589	18.8719			N/A

5/16/2019	CHF MXN	1:30:00 PM	18.8014	18.8155			N/A
5/16/2019	CHF MXN	3:30:00 PM	18.8424	18.8507			N/A
5/16/2019	CHF NOK	9:30:00 AM	8.6471	8.6556			N/A
5/16/2019	CHF NOK	11:30:00 AM	8.6204	8.6279			N/A
5/16/2019	CHF NOK	1:30:00 PM	8.6049	8.6124			N/A
5/16/2019	CHF NOK	3:30:00 PM	8.6229	8.6249			N/A
5/16/2019	CHF NOK.fx	9:30:00 AM	8.65045	8.65231			N/A
5/16/2019	CHF NOK.fx	11:30:00 AM	8.6239	8.6243			N/A
5/16/2019	CHF NOK.fx	1:30:00 PM	8.60848	8.60886			N/A
5/16/2019	CHF NOK.fx	3:30:00 PM	8.62603	8.62143			N/A
5/16/2019	CHF PLN	9:30:00 AM	3.8057	3.8084			N/A
5/16/2019	CHF PLN	11:30:00 AM	3.7966	3.7994			N/A
5/16/2019	CHF PLN	1:30:00 PM	3.7944	3.7974			N/A
5/16/2019	CHF PLN	3:30:00 PM	3.799	3.8005			N/A
5/16/2019	CHF PLN.fx	9:30:00 AM	3.80324	3.81081			N/A
5/16/2019	CHF PLN.fx	11:30:00 AM	3.79434	3.80153			N/A
5/16/2019	CHF PLN.fx	1:30:00 PM	3.79206	3.79965			N/A
5/16/2019	CHF PLN.fx	3:30:00 PM	3.79526	3.80329			N/A
5/16/2019	CHF SEK	9:30:00 AM	9.5267	9.531			N/A
5/16/2019	CHF SEK	11:30:00 AM	9.5121	9.5168			N/A
5/16/2019	CHF SEK	1:30:00 PM	9.4928	9.4968			N/A
5/16/2019	CHF SEK	3:30:00 PM	9.5088	9.5085			N/A
5/16/2019	CHF SGD	9:30:00 AM	1.358	1.3584			N/A
5/16/2019	CHF SGD	11:30:00 AM	1.3569	1.3574			N/A
5/16/2019	CHF SGD	1:30:00 PM	1.356	1.3563			N/A
5/16/2019	CHF SGD	3:30:00 PM	1.3567	1.3566			N/A
5/16/2019	CHF SGD.fx	9:30:00 AM	1.35814	1.35822			N/A
5/16/2019	CHF SGD.fx	11:30:00 AM	1.35705	1.35712			N/A
5/16/2019	CHF SGD.fx	1:30:00 PM	1.35622	1.35617			N/A
5/16/2019	CHF SGD.fx	3:30:00 PM	1.3568	1.35645			N/A
5/16/2019	CHF ZAR	9:30:00 AM	14.1385	14.1358			N/A
5/16/2019	CHF ZAR	11:30:00 AM	14.063	14.0735			N/A
5/16/2019	CHF ZAR	1:30:00 PM	14.0009	14.0087			N/A
5/16/2019	CHF ZAR	3:30:00 PM	14.0019	14.0111			N/A

5/16/2019	CZKJPY	9:30:00 AM	4.772	4.776			N/A
5/16/2019	CZKJPY	11:30:00 AM					N/A
5/16/2019	CZKJPY	1:30:00 PM	4.788	4.792			N/A
5/16/2019	CZKJPY	3:30:00 PM	4.786	4.787			N/A
5/16/2019	DAX30.i	9:30:00 AM	12048.38	12048.38			N/A
5/16/2019	DAX30.i	11:30:00 AM	12056.63	12052.13			N/A
5/16/2019	DAX30.i	1:30:00 PM	12178.63	12175.63			N/A
5/16/2019	DAX30.i	3:30:00 PM	12176.57	12161.38			N/A
5/16/2019	DJ30.i	9:30:00 AM					N/A
5/16/2019	DJ30.i	11:30:00 AM					N/A
5/16/2019	DJ30.i	1:30:00 PM					N/A
5/16/2019	DJ30.i	3:30:00 PM					N/A
5/16/2019	DKKJPY	9:30:00 AM	16.43	16.44			N/A
5/16/2019	DKKJPY	11:30:00 AM					N/A
5/16/2019	DKKJPY	1:30:00 PM					N/A
5/16/2019	DKKJPY	3:30:00 PM					N/A
5/16/2019	EURAUD	9:30:00 AM	1.62152	1.62163			N/A
5/16/2019	EURAUD	11:30:00 AM	1.61851	1.61873			N/A
5/16/2019	EURAUD	1:30:00 PM	1.61724	1.61734			N/A
5/16/2019	EURAUD	3:30:00 PM	1.61923	1.61928			N/A
5/16/2019	EURAUD.fx	9:30:00 AM	1.62171	1.62141			N/A
5/16/2019	EURAUD.fx	11:30:00 AM	1.61872	1.61852			N/A
5/16/2019	EURAUD.fx	1:30:00 PM	1.61746	1.61711			N/A
5/16/2019	EURAUD.fx	3:30:00 PM	1.6194	1.61908			N/A
5/16/2019	EURCAD	9:30:00 AM	1.50571	1.50655			N/A
5/16/2019	EURCAD	11:30:00 AM	1.50468	1.5055			N/A
5/16/2019	EURCAD	1:30:00 PM	1.5021	1.50274			N/A
5/16/2019	EURCAD	3:30:00 PM	1.5031	1.50356			N/A
5/16/2019	EURCAD.fx	9:30:00 AM	1.50613	1.50612			N/A
5/16/2019	EURCAD.fx	11:30:00 AM	1.50511	1.50508			N/A
5/16/2019	EURCAD.fx	1:30:00 PM	1.50252	1.50233			N/A
5/16/2019	EURCAD.fx	3:30:00 PM	1.50342	1.50314			N/A
5/16/2019	EURCHF	9:30:00 AM	1.12957	1.12969			N/A
5/16/2019	EURCHF	11:30:00 AM	1.13115	1.13119			N/A

5/16/2019	EURCHF	1:30:00 PM	1.13111	1.13117			N/A
5/16/2019	EURCHF	3:30:00 PM	1.1307	1.1305			N/A
5/16/2019	EURCHF.fx	9:30:00 AM	1.12963	1.12963			N/A
5/16/2019	EURCHF.fx	11:30:00 AM	1.1312	1.13113			N/A
5/16/2019	EURCHF.fx	1:30:00 PM	1.13117	1.13111			N/A
5/16/2019	EURCHF.fx	3:30:00 PM	1.13076	1.13045			N/A
5/16/2019	EURCZK	9:30:00 AM	25.677	25.712			N/A
5/16/2019	EURCZK	11:30:00 AM	25.675	25.711			N/A
5/16/2019	EURCZK	1:30:00 PM	25.651	25.69			N/A
5/16/2019	EURCZK	3:30:00 PM	25.659	25.694			N/A
5/16/2019	EURDKK	9:30:00 AM	7.4668	7.468			N/A
5/16/2019	EURDKK	11:30:00 AM	7.4666	7.4675			N/A
5/16/2019	EURDKK	1:30:00 PM	7.4655	7.4666			N/A
5/16/2019	EURDKK	3:30:00 PM	7.467	7.4675			N/A
5/16/2019	EURGBP	9:30:00 AM	0.87267	0.87279			N/A
5/16/2019	EURGBP	11:30:00 AM	0.87401	0.87413			N/A
5/16/2019	EURGBP	1:30:00 PM	0.87394	0.87393			N/A
5/16/2019	EURGBP	3:30:00 PM	0.87458	0.87464			N/A
5/16/2019	EURGBP.fx	9:30:00 AM	0.87271	0.87274			N/A
5/16/2019	EURGBP.fx	11:30:00 AM	0.87404	0.87407			N/A
5/16/2019	EURGBP.fx	1:30:00 PM	0.87399	0.87388			N/A
5/16/2019	EURGBP.fx	3:30:00 PM	0.8746	0.8746			N/A
5/16/2019	EURHKD	9:30:00 AM	8.793	8.7981			N/A
5/16/2019	EURHKD	11:30:00 AM	8.8007	8.8061			N/A
5/16/2019	EURHKD	1:30:00 PM	8.7963	8.8014			N/A
5/16/2019	EURHKD	3:30:00 PM	8.7924	8.7958			N/A
5/16/2019	EURHKD.fx	9:30:00 AM	8.79583	8.79526			N/A
5/16/2019	EURHKD.fx	11:30:00 AM	8.80351	8.80325			N/A
5/16/2019	EURHKD.fx	1:30:00 PM	8.79914	8.79849			N/A
5/16/2019	EURHKD.fx	3:30:00 PM	8.79503	8.79304			N/A
5/16/2019	EURHUF	9:30:00 AM	324.55	325.1			N/A
5/16/2019	EURHUF	11:30:00 AM	324.18	324.86			N/A
5/16/2019	EURHUF	1:30:00 PM	323.93	324.52			N/A
5/16/2019	EURHUF	3:30:00 PM	323.85	324.43			N/A

5/16/2019	EURHUF.fx	9:30:00 AM	324.813	324.848			N/A
5/16/2019	EURHUF.fx	11:30:00 AM	324.467	324.6			N/A
5/16/2019	EURHUF.fx	1:30:00 PM	324.21	324.228			N/A
5/16/2019	EURHUF.fx	3:30:00 PM	324.131	324.308			N/A
5/16/2019	EURJPY	9:30:00 AM	122.649	122.654			N/A
5/16/2019	EURJPY	11:30:00 AM	122.825	122.819			N/A
5/16/2019	EURJPY	1:30:00 PM	122.931	122.928			N/A
5/16/2019	EURJPY	3:30:00 PM	122.937	122.875			N/A
5/16/2019	EURJPY.fx	9:30:00 AM	122.651	122.65			N/A
5/16/2019	EURJPY.fx	11:30:00 AM	122.827	122.815			N/A
5/16/2019	EURJPY.fx	1:30:00 PM	122.934	122.924			N/A
5/16/2019	EURJPY.fx	3:30:00 PM	122.939	122.872			N/A
5/16/2019	EURMXN	9:30:00 AM	21.363	21.3812			N/A
5/16/2019	EURMXN	11:30:00 AM	21.333	21.3507			N/A
5/16/2019	EURMXN	1:30:00 PM	21.2681	21.2857			N/A
5/16/2019	EURMXN	3:30:00 PM	21.3042	21.316			N/A
5/16/2019	EURMXN.f	9:30:00 AM	21.3721	21.3724			N/A
5/16/2019	EURMXN.f	11:30:00 AM	21.3422	21.3416			N/A
5/16/2019	EURMXN.f	1:30:00 PM	21.2771	21.2766			N/A
5/16/2019	EURMXN.f	3:30:00 PM	21.3135	21.3061			N/A
5/16/2019	EURNOK	9:30:00 AM	9.7665	9.7789			N/A
5/16/2019	EURNOK	11:30:00 AM	9.7489	9.7615			N/A
5/16/2019	EURNOK	1:30:00 PM	9.7316	9.7425			N/A
5/16/2019	EURNOK	3:30:00 PM	9.7461	9.7545			N/A
5/16/2019	EURNOK.fx	9:30:00 AM	9.77179	9.77367			N/A
5/16/2019	EURNOK.fx	11:30:00 AM	9.75431	9.75585			N/A
5/16/2019	EURNOK.fx	1:30:00 PM	9.73721	9.73688			N/A
5/16/2019	EURNOK.fx	3:30:00 PM	9.75099	9.74898			N/A
5/16/2019	EURNZD	9:30:00 AM	1.71033	1.71088			N/A
5/16/2019	EURNZD	11:30:00 AM	1.70639	1.70678			N/A
5/16/2019	EURNZD	1:30:00 PM	1.70348	1.70396			N/A
5/16/2019	EURNZD	3:30:00 PM	1.70543	1.70616			N/A
5/16/2019	EURNZD.fx	9:30:00 AM	1.71075	1.71046			N/A
5/16/2019	EURNZD.fx	11:30:00 AM	1.70682	1.70634			N/A

5/16/2019	EURNZD.fx	1:30:00 PM	1.7039	1.70352			N/A
5/16/2019	EURNZD.fx	3:30:00 PM	1.7058	1.70573			N/A
5/16/2019	EURPLN	9:30:00 AM	4.2991	4.302			N/A
5/16/2019	EURPLN	11:30:00 AM	4.2945	4.2977			N/A
5/16/2019	EURPLN	1:30:00 PM	4.292	4.2952			N/A
5/16/2019	EURPLN	3:30:00 PM	4.2941	4.2962			N/A
5/16/2019	EURPLN.fx	9:30:00 AM	4.29847	4.30264			N/A
5/16/2019	EURPLN.fx	11:30:00 AM	4.29395	4.29833			N/A
5/16/2019	EURPLN.fx	1:30:00 PM	4.29127	4.29582			N/A
5/16/2019	EURPLN.fx	3:30:00 PM	4.29331	4.29732			N/A
5/16/2019	EURRUB	9:30:00 AM					N/A
5/16/2019	EURRUB	11:30:00 AM	72.035	72.46			N/A
5/16/2019	EURRUB	1:30:00 PM	71.943	72.383			N/A
5/16/2019	EURRUB	3:30:00 PM	71.903	72.323			N/A
5/16/2019	EURSEK	9:30:00 AM	10.7631	10.7679			N/A
5/16/2019	EURSEK	11:30:00 AM	10.7613	10.7657			N/A
5/16/2019	EURSEK	1:30:00 PM	10.7391	10.7431			N/A
5/16/2019	EURSEK	3:30:00 PM	10.7525	10.7527			N/A
5/16/2019	EURSEK.fx	9:30:00 AM	10.76468	10.76633			N/A
5/16/2019	EURSEK.fx	11:30:00 AM	10.76295	10.76409			N/A
5/16/2019	EURSEK.fx	1:30:00 PM	10.7408	10.74131			N/A
5/16/2019	EURSEK.fx	3:30:00 PM	10.75388	10.75098			N/A
5/16/2019	EURSGD	9:30:00 AM	1.5338	1.5347			N/A
5/16/2019	EURSGD	11:30:00 AM	1.5346	1.5354			N/A
5/16/2019	EURSGD	1:30:00 PM	1.5336	1.5344			N/A
5/16/2019	EURSGD	3:30:00 PM	1.5335	1.5342			N/A
5/16/2019	EURSGD.fx	9:30:00 AM	1.5342	1.53426			N/A
5/16/2019	EURSGD.fx	11:30:00 AM	1.53499	1.53511			N/A
5/16/2019	EURSGD.fx	1:30:00 PM	1.53399	1.53397			N/A
5/16/2019	EURSGD.fx	3:30:00 PM	1.53387	1.53379			N/A
5/16/2019	EURUSD	9:30:00 AM	1.12036	1.12044	40	40	N/A
5/16/2019	EURUSD	11:30:00 AM	1.12134	1.12148			N/A
5/16/2019	EURUSD	1:30:00 PM	1.1208	1.12089			N/A
5/16/2019	EURUSD	3:30:00 PM	1.12029	1.12016			N/A

5/16/2019	EURUSD.fx	9:30:00 AM	1.12056	1.12053			N/A
5/16/2019	EURUSD.fx	11:30:00 AM	1.12155	1.12156			N/A
5/16/2019	EURUSD.fx	1:30:00 PM	1.12101	1.12098			N/A
5/16/2019	EURUSD.fx	3:30:00 PM	1.12049	1.12025			N/A
5/16/2019	EURZAR	9:30:00 AM	15.9723	15.975			N/A
5/16/2019	EURZAR	11:30:00 AM	15.9078	15.9231			N/A
5/16/2019	EURZAR	1:30:00 PM	15.8363	15.8507			N/A
5/16/2019	EURZAR	3:30:00 PM	15.8316	15.8499			N/A
5/16/2019	EURZAR.fx	9:30:00 AM	15.97185	15.97541			N/A
5/16/2019	EURZAR.fx	11:30:00 AM	15.90728	15.92375			N/A
5/16/2019	EURZAR.fx	1:30:00 PM	15.83633	15.85109			N/A
5/16/2019	EURZAR.fx	3:30:00 PM	15.83098	15.85032			N/A
5/16/2019	GBPAUD	9:30:00 AM	1.85848	1.8589			N/A
5/16/2019	GBPAUD	11:30:00 AM	1.85222	1.85277			N/A
5/16/2019	GBPAUD	1:30:00 PM	1.85106	1.85143			N/A
5/16/2019	GBPAUD	3:30:00 PM	1.85187	1.85226			N/A
5/16/2019	GBPAUD.fx	9:30:00 AM	1.85886	1.85851			N/A
5/16/2019	GBPAUD.fx	11:30:00 AM	1.85263	1.85239			N/A
5/16/2019	GBPAUD.fx	1:30:00 PM	1.85146	1.85101			N/A
5/16/2019	GBPAUD.fx	3:30:00 PM	1.85226	1.85184			N/A
5/16/2019	GBPCAD	9:30:00 AM	1.72534	1.72608			N/A
5/16/2019	GBPCAD	11:30:00 AM	1.72151	1.72228			N/A
5/16/2019	GBPCAD	1:30:00 PM	1.71896	1.71941			N/A
5/16/2019	GBPCAD	3:30:00 PM	1.71856	1.71902			N/A
5/16/2019	GBPCAD.fx	9:30:00 AM	1.72571	1.72568			N/A
5/16/2019	GBPCAD.fx	11:30:00 AM	1.72191	1.7219			N/A
5/16/2019	GBPCAD.fx	1:30:00 PM	1.71938	1.719			N/A
5/16/2019	GBPCAD.fx	3:30:00 PM	1.71892	1.7186			N/A
5/16/2019	GBPCHF	9:30:00 AM	1.2941	1.2946			N/A
5/16/2019	GBPCHF	11:30:00 AM	1.29399	1.29434			N/A
5/16/2019	GBPCHF	1:30:00 PM	1.29424	1.2944			N/A
5/16/2019	GBPCHF	3:30:00 PM	1.29261	1.2927			N/A
5/16/2019	GBPCHF.fx	9:30:00 AM	1.29429	1.2944			N/A
5/16/2019	GBPCHF.fx	11:30:00 AM	1.29417	1.29413			N/A

5/16/2019	GBPCHF.fx	1:30:00 PM	1.29445	1.29418			N/A
5/16/2019	GBPCHF.fx	3:30:00 PM	1.29279	1.2925			N/A
5/16/2019	GBPCZK	9:30:00 AM	29.432	29.448			N/A
5/16/2019	GBPCZK	11:30:00 AM	29.383	29.403			N/A
5/16/2019	GBPCZK	1:30:00 PM	29.364	29.381			N/A
5/16/2019	GBPCZK	3:30:00 PM	29.347	29.365			N/A
5/16/2019	GBPDKK	9:30:00 AM	8.552	8.563			N/A
5/16/2019	GBPDKK	11:30:00 AM	8.539	8.55			N/A
5/16/2019	GBPDKK	1:30:00 PM	8.541	8.551			N/A
5/16/2019	GBPDKK	3:30:00 PM	8.534	8.544			N/A
5/16/2019	GBPDKK.fx	9:30:00 AM	8.5506	8.5638			N/A
5/16/2019	GBPDKK.fx	11:30:00 AM	8.5372	8.5503			N/A
5/16/2019	GBPDKK.fx	1:30:00 PM	8.539	8.5509			N/A
5/16/2019	GBPDKK.fx	3:30:00 PM	8.532	8.5448			N/A
5/16/2019	GBPHKD	9:30:00 AM	10.0727	10.0786			N/A
5/16/2019	GBPHKD	11:30:00 AM	10.0667	10.0726			N/A
5/16/2019	GBPHKD	1:30:00 PM	10.0633	10.0673			N/A
5/16/2019	GBPHKD	3:30:00 PM	10.0496	10.0546			N/A
5/16/2019	GBPHUF	9:30:00 AM	371.87	372.14			N/A
5/16/2019	GBPHUF	11:30:00 AM	370.91	371.4			N/A
5/16/2019	GBPHUF	1:30:00 PM	370.68	370.97			N/A
5/16/2019	GBPHUF	3:30:00 PM	370.28	370.56			N/A
5/16/2019	GBPJPY	9:30:00 AM	140.51	140.554			N/A
5/16/2019	GBPJPY	11:30:00 AM	140.511	140.534			N/A
5/16/2019	GBPJPY	1:30:00 PM	140.654	140.67			N/A
5/16/2019	GBPJPY	3:30:00 PM	140.542	140.514			N/A
5/16/2019	GBPJPY.fx	9:30:00 AM	140.53	140.535			N/A
5/16/2019	GBPJPY.fx	11:30:00 AM	140.53	140.513			N/A
5/16/2019	GBPJPY.fx	1:30:00 PM	140.675	140.65			N/A
5/16/2019	GBPJPY.fx	3:30:00 PM	140.558	140.494			N/A
5/16/2019	GBPMXN	9:30:00 AM	24.4734	24.489			N/A
5/16/2019	GBPMXN	11:30:00 AM	24.4032	24.4154			N/A
5/16/2019	GBPMXN	1:30:00 PM	24.3339	24.3452			N/A
5/16/2019	GBPMXN	3:30:00 PM	24.3542	24.3641			N/A

5/16/2019	GBPNOK	9:30:00 AM	11.1915	11.2035			N/A
5/16/2019	GBPNOK	11:30:00 AM	11.1542	11.1661			N/A
5/16/2019	GBPNOK	1:30:00 PM	11.1373	11.1461			N/A
5/16/2019	GBPNOK	3:30:00 PM	11.1445	11.1516			N/A
5/16/2019	GBPNOK.fx	9:30:00 AM	11.19604	11.19907			N/A
5/16/2019	GBPNOK.fx	11:30:00 AM	11.15907	11.16114			N/A
5/16/2019	GBPNOK.fx	1:30:00 PM	11.14198	11.14123			N/A
5/16/2019	GBPNOK.fx	3:30:00 PM	11.14848	11.14664			N/A
5/16/2019	GBPNZD	9:30:00 AM	1.95983	1.96026			N/A
5/16/2019	GBPNZD	11:30:00 AM	1.95235	1.95257			N/A
5/16/2019	GBPNZD	1:30:00 PM	1.9494	1.94971			N/A
5/16/2019	GBPNZD	3:30:00 PM	1.95	1.95072			N/A
5/16/2019	GBPNZD.fx	9:30:00 AM	1.96018	1.95989			N/A
5/16/2019	GBPNZD.fx	11:30:00 AM	1.95269	1.95221			N/A
5/16/2019	GBPNZD.fx	1:30:00 PM	1.94975	1.9493			N/A
5/16/2019	GBPNZD.fx	3:30:00 PM	1.95033	1.95032			N/A
5/16/2019	GBPPLN	9:30:00 AM	4.9268	4.9284			N/A
5/16/2019	GBPPLN	11:30:00 AM	4.914	4.9161			N/A
5/16/2019	GBPPLN	1:30:00 PM	4.9123	4.9137			N/A
5/16/2019	GBPPLN	3:30:00 PM	4.9112	4.9115			N/A
5/16/2019	GBPPLN.fx	9:30:00 AM	4.92454	4.9307			N/A
5/16/2019	GBPPLN.fx	11:30:00 AM	4.91196	4.91808			N/A
5/16/2019	GBPPLN.fx	1:30:00 PM	4.91014	4.91587			N/A
5/16/2019	GBPPLN.fx	3:30:00 PM	4.90808	4.91474			N/A
5/16/2019	GBPSEK	9:30:00 AM	12.3307	12.3405			N/A
5/16/2019	GBPSEK	11:30:00 AM	12.31	12.3191			N/A
5/16/2019	GBPSEK	1:30:00 PM	12.2865	12.2942			N/A
5/16/2019	GBPSEK	3:30:00 PM	12.2925	12.2973			N/A
5/16/2019	GBPSEK.fx	9:30:00 AM	12.327	12.34409			N/A
5/16/2019	GBPSEK.fx	11:30:00 AM	12.30665	12.32278			N/A
5/16/2019	GBPSEK.fx	1:30:00 PM	12.28304	12.29789			N/A
5/16/2019	GBPSEK.fx	3:30:00 PM	12.28799	12.30079			N/A
5/16/2019	GBPSGD	9:30:00 AM	1.7575	1.7583			N/A
5/16/2019	GBPSGD	11:30:00 AM	1.7557	1.7566			N/A

5/16/2019	GBPSGD	1:30:00 PM	1.755	1.7555			N/A
5/16/2019	GBPSGD	3:30:00 PM	1.7534	1.754			N/A
5/16/2019	GBPSGD.fx	9:30:00 AM	1.75564	1.76012			N/A
5/16/2019	GBPSGD.fx	11:30:00 AM	1.75395	1.75836			N/A
5/16/2019	GBPSGD.fx	1:30:00 PM	1.75314	1.75734			N/A
5/16/2019	GBPSGD.fx	3:30:00 PM	1.75151	1.75582			N/A
5/16/2019	GBPUSD	9:30:00 AM	1.28389	1.28397			N/A
5/16/2019	GBPUSD	11:30:00 AM	1.28313	1.28318			N/A
5/16/2019	GBPUSD	1:30:00 PM	1.28275	1.28264			N/A
5/16/2019	GBPUSD	3:30:00 PM	1.28109	1.28089			N/A
5/16/2019	GBPUSD.fx	9:30:00 AM	1.28394	1.28392			N/A
5/16/2019	GBPUSD.fx	11:30:00 AM	1.28318	1.28313			N/A
5/16/2019	GBPUSD.fx	1:30:00 PM	1.28281	1.28257			N/A
5/16/2019	GBPUSD.fx	3:30:00 PM	1.2811	1.28082			N/A
5/16/2019	GBPZAR	9:30:00 AM	18.2986	18.3068			N/A
5/16/2019	GBPZAR	11:30:00 AM	18.1958	18.2212			N/A
5/16/2019	GBPZAR	1:30:00 PM	18.1169	18.1433			N/A
5/16/2019	GBPZAR	3:30:00 PM	18.0979	18.1254			N/A
5/16/2019	GBPZAR.fx	9:30:00 AM	18.3045	18.3001			N/A
5/16/2019	GBPZAR.fx	11:30:00 AM	18.2033	18.2137			N/A
5/16/2019	GBPZAR.fx	1:30:00 PM	18.125	18.1363			N/A
5/16/2019	GBPZAR.fx	3:30:00 PM	18.1047	18.1184			N/A
5/16/2019	GOLD	9:30:00 AM	1296.8	1297.08			N/A
5/16/2019	GOLD	11:30:00 AM	1296.79	1297.09			N/A
5/16/2019	GOLD	1:30:00 PM	1294.42	1294.43			N/A
5/16/2019	GOLD	3:30:00 PM	1293.97	1291.75			N/A
5/16/2019	HKDJPY	9:30:00 AM	13.95	13.95			N/A
5/16/2019	HKDJPY	11:30:00 AM					N/A
5/16/2019	HKDJPY	1:30:00 PM					N/A
5/16/2019	HKDJPY	3:30:00 PM	13.98	13.98			N/A
5/16/2019	HKDJPY.fx	9:30:00 AM	13.94	13.948			N/A
5/16/2019	HKDJPY.fx	11:30:00 AM	13.947	13.954			N/A
5/16/2019	HKDJPY.fx	1:30:00 PM	13.967	13.974			N/A
5/16/2019	HKDJPY.fx	3:30:00 PM	13.977	13.974			N/A

5/16/2019	HUFJPY	9:30:00 AM	0.3781	0.3783			N/A
5/16/2019	HUFJPY	11:30:00 AM	0.3784	0.3787			N/A
5/16/2019	HUFJPY	1:30:00 PM	0.3793	0.3795			N/A
5/16/2019	HUFJPY	3:30:00 PM	0.3793	0.3796			N/A
5/16/2019	JP225.i	9:30:00 AM	21038.75	21056.25			N/A
5/16/2019	JP225.i	11:30:00 AM	21068.75	21083.75			N/A
5/16/2019	JP225.i	1:30:00 PM	21206.25	21218.75			N/A
5/16/2019	JP225.i	3:30:00 PM	21198.75	21194.58			N/A
5/16/2019	MXNJPY	9:30:00 AM	5.74	5.75			N/A
5/16/2019	MXNJPY	11:30:00 AM	5.75	5.76			N/A
5/16/2019	MXNJPY	1:30:00 PM	5.78	5.79			N/A
5/16/2019	MXNJPY	3:30:00 PM	5.77	5.77			N/A
5/16/2019	NASDAQ.i	9:30:00 AM					N/A
5/16/2019	NASDAQ.i	11:30:00 AM					N/A
5/16/2019	NASDAQ.i	1:30:00 PM					N/A
5/16/2019	NASDAQ.i	3:30:00 PM					N/A
5/16/2019	NOKJPY	9:30:00 AM					N/A
5/16/2019	NOKJPY	11:30:00 AM	12.58	12.61			N/A
5/16/2019	NOKJPY	1:30:00 PM	12.61	12.64			N/A
5/16/2019	NOKJPY	3:30:00 PM	12.59	12.62			N/A
5/16/2019	NOKJPY.fx	9:30:00 AM	12.546	12.555			N/A
5/16/2019	NOKJPY.fx	11:30:00 AM	12.588	12.594			N/A
5/16/2019	NOKJPY.fx	1:30:00 PM	12.622	12.629			N/A
5/16/2019	NOKJPY.fx	3:30:00 PM	12.608	12.604			N/A
5/16/2019	NZDCAD	9:30:00 AM	0.88009	0.88072			N/A
5/16/2019	NZDCAD	11:30:00 AM	0.88167	0.88207			N/A
5/16/2019	NZDCAD	1:30:00 PM	0.88148	0.88208			N/A
5/16/2019	NZDCAD	3:30:00 PM	0.88108	0.88155			N/A
5/16/2019	NZDCAD.fx	9:30:00 AM	0.88042	0.88039			N/A
5/16/2019	NZDCAD.fx	11:30:00 AM	0.88201	0.88174			N/A
5/16/2019	NZDCAD.fx	1:30:00 PM	0.88181	0.88175			N/A
5/16/2019	NZDCAD.fx	3:30:00 PM	0.88132	0.88121			N/A
5/16/2019	NZDCHF	9:30:00 AM	0.66007	0.66067			N/A
5/16/2019	NZDCHF	11:30:00 AM	0.66256	0.66311			N/A

5/16/2019	NZDCHF	1:30:00 PM	0.66358	0.66418			N/A
5/16/2019	NZDCHF	3:30:00 PM	0.66255	0.66304			N/A
5/16/2019	NZDCHF.fx	9:30:00 AM	0.66041	0.66032			N/A
5/16/2019	NZDCHF.fx	11:30:00 AM	0.66289	0.66276			N/A
5/16/2019	NZDCHF.fx	1:30:00 PM	0.66392	0.66383			N/A
5/16/2019	NZDCHF.fx	3:30:00 PM	0.66288	0.66271			N/A
5/16/2019	NZDCZK	9:30:00 AM	15.016	15.023			N/A
5/16/2019	NZDCZK	11:30:00 AM	15.051	15.057			N/A
5/16/2019	NZDCZK	1:30:00 PM	15.063	15.07			N/A
5/16/2019	NZDCZK	3:30:00 PM	15.047	15.057			N/A
5/16/2019	NZDDKK	9:30:00 AM	4.363	4.367			N/A
5/16/2019	NZDDKK	11:30:00 AM					N/A
5/16/2019	NZDDKK	1:30:00 PM	4.381	4.384			N/A
5/16/2019	NZDDKK	3:30:00 PM	4.375	4.379			N/A
5/16/2019	NZDHKD	9:30:00 AM	5.1386	5.1408			N/A
5/16/2019	NZDHKD	11:30:00 AM	5.1557	5.158			N/A
5/16/2019	NZDHKD	1:30:00 PM	5.1617	5.1637			N/A
5/16/2019	NZDHKD	3:30:00 PM	5.1526	5.1555			N/A
5/16/2019	NZDHUF	9:30:00 AM	189.68	189.87			N/A
5/16/2019	NZDHUF	11:30:00 AM	189.96	190.21			N/A
5/16/2019	NZDHUF	1:30:00 PM	190.13	190.28			N/A
5/16/2019	NZDHUF	3:30:00 PM	189.82	190.02			N/A
5/16/2019	NZDJPY	9:30:00 AM	71.673	71.729			N/A
5/16/2019	NZDJPY	11:30:00 AM	71.948	71.992			N/A
5/16/2019	NZDJPY	1:30:00 PM	72.119	72.185			N/A
5/16/2019	NZDJPY	3:30:00 PM	72.038	72.067			N/A
5/16/2019	NZDJPY.fx	9:30:00 AM	71.704	71.696			N/A
5/16/2019	NZDJPY.fx	11:30:00 AM	71.98	71.959			N/A
5/16/2019	NZDJPY.fx	1:30:00 PM	72.152	72.153			N/A
5/16/2019	NZDJPY.fx	3:30:00 PM	72.069	72.036			N/A
5/16/2019	NZDMXN	9:30:00 AM	12.4862	12.4912			N/A
5/16/2019	NZDMXN	11:30:00 AM	12.5001	12.5033			N/A
5/16/2019	NZDMXN	1:30:00 PM	12.4812	12.4861			N/A
5/16/2019	NZDMXN	3:30:00 PM	12.4871	12.4906			N/A

5/16/2019	NZDNOK	9:30:00 AM	5.708	5.7111			N/A
5/16/2019	NZDNOK	11:30:00 AM	5.7118	5.715			N/A
5/16/2019	NZDNOK	1:30:00 PM	5.7109	5.7136			N/A
5/16/2019	NZDNOK	3:30:00 PM	5.7105	5.7141			N/A
5/16/2019	NZDPLN	9:30:00 AM	2.5123	2.5133			N/A
5/16/2019	NZDPLN	11:30:00 AM	2.5157	2.5171			N/A
5/16/2019	NZDPLN	1:30:00 PM	2.5189	2.5198			N/A
5/16/2019	NZDPLN	3:30:00 PM	2.5168	2.5181			N/A
5/16/2019	NZDSEK	9:30:00 AM	6.2878	6.2932			N/A
5/16/2019	NZDSEK	11:30:00 AM	6.3019	6.307			N/A
5/16/2019	NZDSEK	1:30:00 PM	6.2988	6.3045			N/A
5/16/2019	NZDSEK	3:30:00 PM	6.2981	6.3038			N/A
5/16/2019	NZDSGD	9:30:00 AM	0.8966	0.8971			N/A
5/16/2019	NZDSGD	11:30:00 AM	0.8993	0.8997			N/A
5/16/2019	NZDSGD	1:30:00 PM	0.9001	0.9005			N/A
5/16/2019	NZDSGD	3:30:00 PM	0.899	0.8995			N/A
5/16/2019	NZDSGD.fx	9:30:00 AM	0.89658	0.89704			N/A
5/16/2019	NZDSGD.fx	11:30:00 AM	0.89926	0.89961			N/A
5/16/2019	NZDSGD.fx	1:30:00 PM	0.90008	0.90056			N/A
5/16/2019	NZDSGD.fx	3:30:00 PM	0.89882	0.89942			N/A
5/16/2019	NZDUSD	9:30:00 AM	0.65502	0.65503			N/A
5/16/2019	NZDUSD	11:30:00 AM	0.65717	0.65713			N/A
5/16/2019	NZDUSD	1:30:00 PM	0.6579	0.65794			N/A
5/16/2019	NZDUSD	3:30:00 PM	0.65671	0.6568			N/A
5/16/2019	NZDUSD.fx	9:30:00 AM	0.6551	0.65504			N/A
5/16/2019	NZDUSD.fx	11:30:00 AM	0.65725	0.65714			N/A
5/16/2019	NZDUSD.fx	1:30:00 PM	0.65797	0.65795			N/A
5/16/2019	NZDUSD.fx	3:30:00 PM	0.65679	0.65681			N/A
5/16/2019	NZDZAR	9:30:00 AM	9.33	9.335			N/A
5/16/2019	NZDZAR	11:30:00 AM	9.316	9.3278			N/A
5/16/2019	NZDZAR	1:30:00 PM	9.2896	9.302			N/A
5/16/2019	NZDZAR	3:30:00 PM	9.2739	9.2874			N/A
5/16/2019	SEKJPY	9:30:00 AM	11.39	11.4			N/A
5/16/2019	SEKJPY	11:30:00 AM					N/A

5/16/2019	SEKJPY	1:30:00 PM	11.45	11.45			N/A
5/16/2019	SEKJPY	3:30:00 PM	11.43	11.43			N/A
5/16/2019	SEKJPY.fx	9:30:00 AM	11.383	11.402			N/A
5/16/2019	SEKJPY.fx	11:30:00 AM	11.401	11.419			N/A
5/16/2019	SEKJPY.fx	1:30:00 PM	11.435	11.454			N/A
5/16/2019	SEKJPY.fx	3:30:00 PM	11.426	11.434			N/A
5/16/2019	SGDJPY	9:30:00 AM	79.93	79.94			N/A
5/16/2019	SGDJPY	11:30:00 AM	80.02	80.01			N/A
5/16/2019	SGDJPY	1:30:00 PM	80.14	80.14			N/A
5/16/2019	SGDJPY	3:30:00 PM	80.12	80.11			N/A
5/16/2019	SILVER	9:30:00 AM	14.59	14.97			N/A
5/16/2019	SILVER	11:30:00 AM	14.61	14.99			N/A
5/16/2019	SILVER	1:30:00 PM	14.6	14.98			N/A
5/16/2019	SILVER	3:30:00 PM	14.6	14.96			N/A
5/16/2019	SPX500.i	9:30:00 AM	2844.06	2844.9			N/A
5/16/2019	SPX500.i	11:30:00 AM	2850.1	2850.9			N/A
5/16/2019	SPX500.i	1:30:00 PM	2863.85	2864.4			N/A
5/16/2019	SPX500.i	3:30:00 PM	2862.85	2862.4			N/A
5/16/2019	UK100.i	9:30:00 AM	7270.06	7270.81			N/A
5/16/2019	UK100.i	11:30:00 AM	7300.48	7297.73			N/A
5/16/2019	UK100.i	1:30:00 PM	7319.48	7318.73			N/A
5/16/2019	UK100.i	3:30:00 PM	7322.73	7320.06			N/A
5/16/2019	USDCAD	9:30:00 AM	1.34411	1.34411			N/A
5/16/2019	USDCAD	11:30:00 AM	1.34198	1.34203			N/A
5/16/2019	USDCAD	1:30:00 PM	1.3403	1.34027			N/A
5/16/2019	USDCAD	3:30:00 PM	1.34182	1.34185			N/A
5/16/2019	USDCAD.fx	9:30:00 AM	1.34414	1.34408			N/A
5/16/2019	USDCAD.fx	11:30:00 AM	1.34202	1.34199			N/A
5/16/2019	USDCAD.fx	1:30:00 PM	1.34033	1.34023			N/A
5/16/2019	USDCAD.fx	3:30:00 PM	1.34181	1.3418			N/A
5/16/2019	USDCHF	9:30:00 AM	1.00803	1.00815			N/A
5/16/2019	USDCHF	11:30:00 AM	1.00852	1.0086			N/A
5/16/2019	USDCHF	1:30:00 PM	1.00905	1.00904			N/A
5/16/2019	USDCHF	3:30:00 PM	1.00933	1.00894			N/A

5/16/2019	USDCHF.fx	9:30:00 AM	1.00808	1.00808			N/A
5/16/2019	USDCHF.fx	11:30:00 AM	1.00858	1.00853			N/A
5/16/2019	USDCHF.fx	1:30:00 PM	1.0091	1.00898			N/A
5/16/2019	USDCHF.fx	3:30:00 PM	1.00937	1.0089			N/A
5/16/2019	USDCZK	9:30:00 AM	22.939	22.96			N/A
5/16/2019	USDCZK	11:30:00 AM	22.917	22.936			N/A
5/16/2019	USDCZK	1:30:00 PM	22.906	22.927			N/A
5/16/2019	USDCZK	3:30:00 PM	22.929	22.949			N/A
5/16/2019	USDCZK.fx	9:30:00 AM	22.946	22.951			N/A
5/16/2019	USDCZK.fx	11:30:00 AM	22.9258	22.9278			N/A
5/16/2019	USDCZK.fx	1:30:00 PM	22.9145	22.9175			N/A
5/16/2019	USDCZK.fx	3:30:00 PM	22.9375	22.9397			N/A
5/16/2019	USDDKK	9:30:00 AM	6.6633	6.6671			N/A
5/16/2019	USDDKK	11:30:00 AM	6.6568	6.6609			N/A
5/16/2019	USDDKK	1:30:00 PM	6.6602	6.6641			N/A
5/16/2019	USDDKK	3:30:00 PM	6.6645	6.667			N/A
5/16/2019	USDDKK.fx	9:30:00 AM	6.66374	6.66512			N/A
5/16/2019	USDDKK.fx	11:30:00 AM	6.65728	6.65883			N/A
5/16/2019	USDDKK.fx	1:30:00 PM	6.66067	6.66203			N/A
5/16/2019	USDDKK.fx	3:30:00 PM	6.66488	6.6651			N/A
5/16/2019	USDHKD	9:30:00 AM	7.849	7.8493			N/A
5/16/2019	USDHKD	11:30:00 AM	7.8491	7.8494			N/A
5/16/2019	USDHKD	1:30:00 PM	7.8489	7.849			N/A
5/16/2019	USDHKD	3:30:00 PM	7.849	7.8493			N/A
5/16/2019	USDHKD.fx	9:30:00 AM	7.84901	7.84955			N/A
5/16/2019	USDHKD.fx	11:30:00 AM	7.84898	7.84953			N/A
5/16/2019	USDHKD.fx	1:30:00 PM	7.84881	7.84935			N/A
5/16/2019	USDHKD.fx	3:30:00 PM	7.84891	7.84936			N/A
5/16/2019	USDHUF	9:30:00 AM	289.73	290.06			N/A
5/16/2019	USDHUF	11:30:00 AM	289.13	289.6			N/A
5/16/2019	USDHUF	1:30:00 PM	289.07	289.4			N/A
5/16/2019	USDHUF	3:30:00 PM	289.17	289.58			N/A
5/16/2019	USDHUF.fx	9:30:00 AM	289.927	289.855			N/A
5/16/2019	USDHUF.fx	11:30:00 AM	289.344	289.378			N/A

5/16/2019	USDHUF.fx	1:30:00 PM	289.265	289.178			N/A
5/16/2019	USDHUF.fx	3:30:00 PM	289.364	289.378			N/A
5/16/2019	USDINR	9:30:00 AM	65.25	75.24			N/A
5/16/2019	USDINR	11:30:00 AM	65.15	75.15			N/A
5/16/2019	USDINR	1:30:00 PM					N/A
5/16/2019	USDINR	3:30:00 PM					N/A
5/16/2019	USDJPY	9:30:00 AM	109.448	109.462			N/A
5/16/2019	USDJPY	11:30:00 AM	109.51	109.511			N/A
5/16/2019	USDJPY	1:30:00 PM	109.657	109.665			N/A
5/16/2019	USDJPY	3:30:00 PM	109.739	109.664			N/A
5/16/2019	USDJPY.fx	9:30:00 AM	109.454	109.455			N/A
5/16/2019	USDJPY.fx	11:30:00 AM	109.516	109.504			N/A
5/16/2019	USDJPY.fx	1:30:00 PM	109.663	109.657			N/A
5/16/2019	USDJPY.fx	3:30:00 PM	109.745	109.661			N/A
5/16/2019	USDMXN	9:30:00 AM	19.069	19.076			N/A
5/16/2019	USDMXN	11:30:00 AM	19.026	19.032			N/A
5/16/2019	USDMXN	1:30:00 PM	18.977	18.984			N/A
5/16/2019	USDMXN	3:30:00 PM	19.02	19.022			N/A
5/16/2019	USDMXN.f	9:30:00 AM	19.0729	19.0718			N/A
5/16/2019	USDMXN.f	11:30:00 AM	19.0295	19.0283			N/A
5/16/2019	USDMXN.f	1:30:00 PM	18.9812	18.9801			N/A
5/16/2019	USDMXN.f	3:30:00 PM	19.024	19.018			N/A
5/16/2019	USDNOK	9:30:00 AM	8.7164	8.7253			N/A
5/16/2019	USDNOK	11:30:00 AM	8.6929	8.7018			N/A
5/16/2019	USDNOK	1:30:00 PM	8.6816	8.6897			N/A
5/16/2019	USDNOK	3:30:00 PM	8.6989	8.7057			N/A
5/16/2019	USDNOK.fx	9:30:00 AM	8.72027	8.72107			N/A
5/16/2019	USDNOK.fx	11:30:00 AM	8.69685	8.69744			N/A
5/16/2019	USDNOK.fx	1:30:00 PM	8.68567	8.68532			N/A
5/16/2019	USDNOK.fx	3:30:00 PM	8.70247	8.70121			N/A
5/16/2019	USDPLN	9:30:00 AM	3.8373	3.8386			N/A
5/16/2019	USDPLN	11:30:00 AM	3.8297	3.8314			N/A
5/16/2019	USDPLN	1:30:00 PM	3.8293	3.8309			N/A
5/16/2019	USDPLN	3:30:00 PM	3.8338	3.8337			N/A

5/16/2019	USDPLN.fx	9:30:00 AM	3.83646	3.83932			N/A
5/16/2019	USDPLN.fx	11:30:00 AM	3.82888	3.83206			N/A
5/16/2019	USDPLN.fx	1:30:00 PM	3.82857	3.83161			N/A
5/16/2019	USDPLN.fx	3:30:00 PM	3.83283	3.83499			N/A
5/16/2019	USDRUB	9:30:00 AM					N/A
5/16/2019	USDRUB	11:30:00 AM	64.352	64.731			N/A
5/16/2019	USDRUB	1:30:00 PM	64.303	64.696			N/A
5/16/2019	USDRUB	3:30:00 PM	64.296	64.673			N/A
5/16/2019	USDSEK	9:30:00 AM	9.6048	9.6094			N/A
5/16/2019	USDSEK	11:30:00 AM	9.5946	9.5989			N/A
5/16/2019	USDSEK	1:30:00 PM	9.5792	9.5837			N/A
5/16/2019	USDSEK	3:30:00 PM	9.5963	9.5985			N/A
5/16/2019	USDSEK.fx	9:30:00 AM	9.60736	9.60747			N/A
5/16/2019	USDSEK.fx	11:30:00 AM	9.59711	9.59709			N/A
5/16/2019	USDSEK.fx	1:30:00 PM	9.58165	9.58177			N/A
5/16/2019	USDSEK.fx	3:30:00 PM	9.59855	9.59663			N/A
5/16/2019	USDSGD	9:30:00 AM	1.3688	1.3692			N/A
5/16/2019	USDSGD	11:30:00 AM	1.3684	1.3688			N/A
5/16/2019	USDSGD	1:30:00 PM	1.3682	1.3684			N/A
5/16/2019	USDSGD	3:30:00 PM	1.3688	1.3691			N/A
5/16/2019	USDSGD.fx	9:30:00 AM	1.36881	1.36924			N/A
5/16/2019	USDSGD.fx	11:30:00 AM	1.36831	1.3688			N/A
5/16/2019	USDSGD.fx	1:30:00 PM	1.36808	1.36854			N/A
5/16/2019	USDSGD.fx	3:30:00 PM	1.36868	1.36913			N/A
5/16/2019	USDZAR	9:30:00 AM	14.2533	14.256			N/A
5/16/2019	USDZAR	11:30:00 AM	14.1843	14.1976			N/A
5/16/2019	USDZAR	1:30:00 PM	14.1273	14.1403			N/A
5/16/2019	USDZAR	3:30:00 PM	14.1303	14.1461			N/A
5/16/2019	USDZAR.fx	9:30:00 AM					N/A
5/16/2019	USDZAR.fx	11:30:00 AM					N/A
5/16/2019	USDZAR.fx	1:30:00 PM					N/A
5/16/2019	USDZAR.fx	3:30:00 PM					N/A
5/16/2019	XAUUSD	9:30:00 AM	1296.8	1297.08			N/A
5/16/2019	XAUUSD	11:30:00 AM	1296.79	1297.09			N/A

5/16/2019	XAUUSD	1:30:00 PM	1294.42	1294.43			N/A
5/16/2019	XAUUSD	3:30:00 PM	1293.97	1291.75			N/A
5/16/2019	ZARJPY	9:30:00 AM	7.66	7.68			N/A
5/16/2019	ZARJPY	11:30:00 AM	7.7	7.72			N/A
5/16/2019	ZARJPY	1:30:00 PM	7.74	7.76			N/A
5/16/2019	ZARJPY	3:30:00 PM	7.74	7.76			N/A
5/16/2019	ZARJPY.fx	9:30:00 AM	7.68	7.676			N/A
5/16/2019	ZARJPY.fx	11:30:00 AM	7.715	7.718			N/A
5/16/2019	ZARJPY.fx	1:30:00 PM	7.758	7.759			N/A
5/16/2019	ZARJPY.fx	3:30:00 PM	7.759	7.759			N/A
5/17/2019	#AA	9:30:00 AM					N/A
5/17/2019	#AA	11:30:00 AM					N/A
5/17/2019	#AA	1:30:00 PM					N/A
5/17/2019	#AA	3:30:00 PM					N/A
5/17/2019	#AABA	9:30:00 AM					N/A
5/17/2019	#AABA	11:30:00 AM					N/A
5/17/2019	#AABA	1:30:00 PM					N/A
5/17/2019	#AABA	3:30:00 PM					N/A
5/17/2019	#AAL	9:30:00 AM					N/A
5/17/2019	#AAL	11:30:00 AM					N/A
5/17/2019	#AAL	1:30:00 PM					N/A
5/17/2019	#AAL	3:30:00 PM					N/A
5/17/2019	#AAPL	9:30:00 AM					N/A
5/17/2019	#AAPL	11:30:00 AM					N/A
5/17/2019	#AAPL	1:30:00 PM					N/A
5/17/2019	#AAPL	3:30:00 PM					N/A
5/17/2019	#ADBE	9:30:00 AM					N/A
5/17/2019	#ADBE	11:30:00 AM					N/A
5/17/2019	#ADBE	1:30:00 PM					N/A
5/17/2019	#ADBE	3:30:00 PM					N/A
5/17/2019	#AIG	9:30:00 AM					N/A
5/17/2019	#AIG	11:30:00 AM					N/A
5/17/2019	#AIG	1:30:00 PM					N/A
5/17/2019	#AIG	3:30:00 PM					N/A

5/17/2019	#AMD	9:30:00 AM					N/A
5/17/2019	#AMD	11:30:00 AM					N/A
5/17/2019	#AMD	1:30:00 PM					N/A
5/17/2019	#AMD	3:30:00 PM					N/A
5/17/2019	#AMZN	9:30:00 AM					N/A
5/17/2019	#AMZN	11:30:00 AM					N/A
5/17/2019	#AMZN	1:30:00 PM					N/A
5/17/2019	#AMZN	3:30:00 PM					N/A
5/17/2019	#AXP	9:30:00 AM					N/A
5/17/2019	#AXP	11:30:00 AM					N/A
5/17/2019	#AXP	1:30:00 PM					N/A
5/17/2019	#AXP	3:30:00 PM					N/A
5/17/2019	#BA	9:30:00 AM					N/A
5/17/2019	#BA	11:30:00 AM					N/A
5/17/2019	#BA	1:30:00 PM					N/A
5/17/2019	#BA	3:30:00 PM					N/A
5/17/2019	#BABA	9:30:00 AM					N/A
5/17/2019	#BABA	11:30:00 AM					N/A
5/17/2019	#BABA	1:30:00 PM					N/A
5/17/2019	#BABA	3:30:00 PM					N/A
5/17/2019	#BAC	9:30:00 AM					N/A
5/17/2019	#BAC	11:30:00 AM					N/A
5/17/2019	#BAC	1:30:00 PM					N/A
5/17/2019	#BAC	3:30:00 PM					N/A
5/17/2019	#BARC	9:30:00 AM					N/A
5/17/2019	#BARC	11:30:00 AM					N/A
5/17/2019	#BARC	1:30:00 PM					N/A
5/17/2019	#BARC	3:30:00 PM					N/A
5/17/2019	#BHP	9:30:00 AM					N/A
5/17/2019	#BHP	11:30:00 AM					N/A
5/17/2019	#BHP	1:30:00 PM					N/A
5/17/2019	#BHP	3:30:00 PM					N/A
5/17/2019	#BIDU	9:30:00 AM					N/A
5/17/2019	#BIDU	11:30:00 AM					N/A

5/17/2019	#BIDU	1:30:00 PM					N/A
5/17/2019	#BIDU	3:30:00 PM					N/A
5/17/2019	#Bitcoin	9:30:00 AM	7230.7	7239.4			N/A
5/17/2019	#Bitcoin	11:30:00 AM	7313.1	7347.95			N/A
5/17/2019	#Bitcoin	1:30:00 PM	7259.35	7274.75			N/A
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5/17/2019	#V	11:30:00 AM					N/A
5/17/2019	#V	1:30:00 PM					N/A
5/17/2019	#V	3:30:00 PM					N/A
5/17/2019	#VOD	9:30:00 AM					N/A
5/17/2019	#VOD	11:30:00 AM					N/A
5/17/2019	#VOD	1:30:00 PM					N/A
5/17/2019	#VOD	3:30:00 PM					N/A
5/17/2019	#VZ	9:30:00 AM					N/A
5/17/2019	#VZ	11:30:00 AM					N/A
5/17/2019	#VZ	1:30:00 PM					N/A
5/17/2019	#VZ	3:30:00 PM					N/A
5/17/2019	#WDC	9:30:00 AM					N/A
5/17/2019	#WDC	11:30:00 AM					N/A
5/17/2019	#WDC	1:30:00 PM					N/A
5/17/2019	#WDC	3:30:00 PM					N/A
5/17/2019	#WFC	9:30:00 AM					N/A
5/17/2019	#WFC	11:30:00 AM					N/A
5/17/2019	#WFC	1:30:00 PM					N/A
5/17/2019	#WFC	3:30:00 PM					N/A
5/17/2019	#WMT	9:30:00 AM					N/A
5/17/2019	#WMT	11:30:00 AM					N/A
5/17/2019	#WMT	1:30:00 PM					N/A
5/17/2019	#WMT	3:30:00 PM					N/A

5/17/2019	#XOM	9:30:00 AM					N/A
5/17/2019	#XOM	11:30:00 AM					N/A
5/17/2019	#XOM	1:30:00 PM					N/A
5/17/2019	#XOM	3:30:00 PM					N/A
5/17/2019	#YHOO	9:30:00 AM					N/A
5/17/2019	#YHOO	11:30:00 AM					N/A
5/17/2019	#YHOO	1:30:00 PM					N/A
5/17/2019	#YHOO	3:30:00 PM					N/A
5/17/2019	#ZNGA	9:30:00 AM					N/A
5/17/2019	#ZNGA	11:30:00 AM					N/A
5/17/2019	#ZNGA	1:30:00 PM					N/A
5/17/2019	#ZNGA	3:30:00 PM					N/A
5/17/2019	AUDCAD	9:30:00 AM	0.92786	0.9282			N/A
5/17/2019	AUDCAD	11:30:00 AM	0.92693	0.9275			N/A
5/17/2019	AUDCAD	1:30:00 PM	0.92715	0.92776			N/A
5/17/2019	AUDCAD	3:30:00 PM	0.92829	0.92875			N/A
5/17/2019	AUDCAD.fx	9:30:00 AM	0.92819	0.92786			N/A
5/17/2019	AUDCAD.fx	11:30:00 AM	0.92727	0.92713			N/A
5/17/2019	AUDCAD.fx	1:30:00 PM	0.9275	0.92741			N/A
5/17/2019	AUDCAD.fx	3:30:00 PM	0.92865	0.92838			N/A
5/17/2019	AUDCHF	9:30:00 AM	0.69459	0.69486			N/A
5/17/2019	AUDCHF	11:30:00 AM	0.69382	0.6944			N/A
5/17/2019	AUDCHF	1:30:00 PM	0.69457	0.69525			N/A
5/17/2019	AUDCHF	3:30:00 PM	0.69477	0.69527			N/A
5/17/2019	AUDCHF.fx	9:30:00 AM	0.69494	0.69452			N/A
5/17/2019	AUDCHF.fx	11:30:00 AM	0.69416	0.69404			N/A
5/17/2019	AUDCHF.fx	1:30:00 PM	0.69491	0.6949			N/A
5/17/2019	AUDCHF.fx	3:30:00 PM	0.69511	0.69492			N/A
5/17/2019	AUDCZK	9:30:00 AM	15.822	15.831			N/A
5/17/2019	AUDCZK	11:30:00 AM	15.82	15.836			N/A
5/17/2019	AUDCZK	1:30:00 PM	15.83	15.844			N/A
5/17/2019	AUDCZK	3:30:00 PM	15.834	15.849			N/A
5/17/2019	AUDDKK	9:30:00 AM	4.5988	4.6015			N/A
5/17/2019	AUDDKK	11:30:00 AM	4.5961	4.5999			N/A

5/17/2019	AUDDKK	1:30:00 PM	4.5955	4.5994			N/A
5/17/2019	AUDDKK	3:30:00 PM	4.597	4.601			N/A
5/17/2019	AUDHKD	9:30:00 AM	5.4026	5.404			N/A
5/17/2019	AUDHKD	11:30:00 AM	5.3972	5.4			N/A
5/17/2019	AUDHKD	1:30:00 PM	5.3948	5.3981			N/A
5/17/2019	AUDHKD	3:30:00 PM	5.3985	5.4005			N/A
5/17/2019	AUDHUF	9:30:00 AM	199.81	199.95			N/A
5/17/2019	AUDHUF	11:30:00 AM	199.65	199.89			N/A
5/17/2019	AUDHUF	1:30:00 PM	200.37	200.6			N/A
5/17/2019	AUDHUF	3:30:00 PM	200.79	201.01			N/A
5/17/2019	AUDJPY	9:30:00 AM	75.443	75.447			N/A
5/17/2019	AUDJPY	11:30:00 AM	75.398	75.442			N/A
5/17/2019	AUDJPY	1:30:00 PM	75.39	75.452			N/A
5/17/2019	AUDJPY	3:30:00 PM	75.357	75.395			N/A
5/17/2019	AUDJPY.fx	9:30:00 AM	75.477	75.412			N/A
5/17/2019	AUDJPY.fx	11:30:00 AM	75.433	75.406			N/A
5/17/2019	AUDJPY.fx	1:30:00 PM	75.423	75.415			N/A
5/17/2019	AUDJPY.fx	3:30:00 PM	75.391	75.359			N/A
5/17/2019	AUDMXN	9:30:00 AM	13.173	13.1796			N/A
5/17/2019	AUDMXN	11:30:00 AM	13.1701	13.1788			N/A
5/17/2019	AUDMXN	1:30:00 PM	13.1711	13.1789			N/A
5/17/2019	AUDMXN	3:30:00 PM	13.2026	13.2071			N/A
5/17/2019	AUDNOK	9:30:00 AM	6.0347	6.038			N/A
5/17/2019	AUDNOK	11:30:00 AM	6.0288	6.0326			N/A
5/17/2019	AUDNOK	1:30:00 PM	6.0235	6.0281			N/A
5/17/2019	AUDNOK	3:30:00 PM	6.0302	6.034			N/A
5/17/2019	AUDNOK.f	9:30:00 AM	6.0362	6.0362			N/A
5/17/2019	AUDNOK.f	11:30:00 AM	6.0304	6.0308			N/A
5/17/2019	AUDNOK.f	1:30:00 PM	6.0251	6.0263			N/A
5/17/2019	AUDNOK.f	3:30:00 PM	6.0318	6.0322			N/A
5/17/2019	AUDNZD	9:30:00 AM	1.05242	1.05313			N/A
5/17/2019	AUDNZD	11:30:00 AM	1.0523	1.05311			N/A
5/17/2019	AUDNZD	1:30:00 PM	1.05295	1.05381			N/A
5/17/2019	AUDNZD	3:30:00 PM	1.05314	1.05392			N/A

5/17/2019	AUDNZD.fx	9:30:00 AM	1.05285	1.05267			N/A
5/17/2019	AUDNZD.fx	11:30:00 AM	1.05276	1.05264			N/A
5/17/2019	AUDNZD.fx	1:30:00 PM	1.05341	1.05336			N/A
5/17/2019	AUDNZD.fx	3:30:00 PM	1.05359	1.05346			N/A
5/17/2019	AUDPLN	9:30:00 AM	2.6514	2.6526			N/A
5/17/2019	AUDPLN	11:30:00 AM	2.6501	2.6528			N/A
5/17/2019	AUDPLN	1:30:00 PM	2.6502	2.6532			N/A
5/17/2019	AUDPLN	3:30:00 PM	2.6484	2.6512			N/A
5/17/2019	AUDSEK	9:30:00 AM	6.6429	6.6436			N/A
5/17/2019	AUDSEK	11:30:00 AM	6.6356	6.6361			N/A
5/17/2019	AUDSEK	1:30:00 PM	6.6259	6.6285			N/A
5/17/2019	AUDSEK	3:30:00 PM	6.6281	6.6296			N/A
5/17/2019	AUDSEK.fx	9:30:00 AM	6.6383	6.6477			N/A
5/17/2019	AUDSEK.fx	11:30:00 AM	6.6309	6.6403			N/A
5/17/2019	AUDSEK.fx	1:30:00 PM	6.6213	6.6328			N/A
5/17/2019	AUDSEK.fx	3:30:00 PM	6.6237	6.6341			N/A
5/17/2019	AUDSGD	9:30:00 AM	0.9468	0.9468			N/A
5/17/2019	AUDSGD	11:30:00 AM	0.9461	0.9464			N/A
5/17/2019	AUDSGD	1:30:00 PM	0.9459	0.9462			N/A
5/17/2019	AUDSGD	3:30:00 PM	0.9463	0.9463			N/A
5/17/2019	AUDSGD.fx	9:30:00 AM	0.94684	0.94661			N/A
5/17/2019	AUDSGD.fx	11:30:00 AM	0.94616	0.94626			N/A
5/17/2019	AUDSGD.fx	1:30:00 PM	0.94596	0.94604			N/A
5/17/2019	AUDSGD.fx	3:30:00 PM	0.94636	0.94623			N/A
5/17/2019	AUDUSD	9:30:00 AM	0.68868	0.68837			N/A
5/17/2019	AUDUSD	11:30:00 AM	0.68792	0.68788			N/A
5/17/2019	AUDUSD	1:30:00 PM	0.68765	0.68774			N/A
5/17/2019	AUDUSD	3:30:00 PM	0.68806	0.68791			N/A
5/17/2019	AUDUSD.fx	9:30:00 AM	0.68874	0.68831			N/A
5/17/2019	AUDUSD.fx	11:30:00 AM	0.68797	0.68782			N/A
5/17/2019	AUDUSD.fx	1:30:00 PM	0.6877	0.68769			N/A
5/17/2019	AUDUSD.fx	3:30:00 PM	0.68812	0.68785			N/A
5/17/2019	AUDZAR	9:30:00 AM	9.8552	9.8675			N/A
5/17/2019	AUDZAR	11:30:00 AM	9.8551	9.8667			N/A

5/17/2019	AUDZAR	1:30:00 PM	9.8662	9.8799			N/A
5/17/2019	AUDZAR	3:30:00 PM	9.8799	9.8934			N/A
5/17/2019	AUS200.i	9:30:00 AM	6354.43	6358.93			N/A
5/17/2019	AUS200.i	11:30:00 AM	6359.13	6361.73			N/A
5/17/2019	AUS200.i	1:30:00 PM	6362.03	6364.93			N/A
5/17/2019	AUS200.i	3:30:00 PM	6340.93	6343.23			N/A
5/17/2019	BCHUSD	9:30:00 AM	372.48	373.65			N/A
5/17/2019	BCHUSD	11:30:00 AM	376.32	377.65			N/A
5/17/2019	BCHUSD	1:30:00 PM	369.55	369.4			N/A
5/17/2019	BCHUSD	3:30:00 PM	356.15	355.04			N/A
5/17/2019	CADCHF	9:30:00 AM	0.74833	0.74892			N/A
5/17/2019	CADCHF	11:30:00 AM	0.74828	0.74892			N/A
5/17/2019	CADCHF	1:30:00 PM	0.74889	0.74959			N/A
5/17/2019	CADCHF	3:30:00 PM	0.74819	0.74874			N/A
5/17/2019	CADCHF.fx	9:30:00 AM	0.74866	0.74857			N/A
5/17/2019	CADCHF.fx	11:30:00 AM	0.74862	0.74856			N/A
5/17/2019	CADCHF.fx	1:30:00 PM	0.74924	0.74923			N/A
5/17/2019	CADCHF.fx	3:30:00 PM	0.74854	0.74838			N/A
5/17/2019	CADCZK	9:30:00 AM	17.05	17.066			N/A
5/17/2019	CADCZK	11:30:00 AM	17.068	17.082			N/A
5/17/2019	CADCZK	1:30:00 PM	17.071	17.088			N/A
5/17/2019	CADCZK	3:30:00 PM	17.057	17.069			N/A
5/17/2019	CADDDKK	9:30:00 AM					N/A
5/17/2019	CADDDKK	11:30:00 AM	4.958	4.961			N/A
5/17/2019	CADDDKK	1:30:00 PM					N/A
5/17/2019	CADDDKK	3:30:00 PM	4.952	4.955			N/A
5/17/2019	CADHKD	9:30:00 AM	5.8215	5.8254			N/A
5/17/2019	CADHKD	11:30:00 AM	5.8214	5.8253			N/A
5/17/2019	CADHKD	1:30:00 PM	5.8174	5.821			N/A
5/17/2019	CADHKD	3:30:00 PM	5.8144	5.8168			N/A
5/17/2019	CADHUF	9:30:00 AM	215.36	215.51			N/A
5/17/2019	CADHUF	11:30:00 AM	215.41	215.57			N/A
5/17/2019	CADHUF	1:30:00 PM	216.12	216.28			N/A
5/17/2019	CADHUF	3:30:00 PM	216.34	216.44			N/A

5/17/2019	CADJPY	9:30:00 AM	81.279	81.315			N/A
5/17/2019	CADJPY	11:30:00 AM	81.313	81.371			N/A
5/17/2019	CADJPY	1:30:00 PM	81.289	81.348			N/A
5/17/2019	CADJPY	3:30:00 PM	81.146	81.2			N/A
5/17/2019	CADJPY.fx	9:30:00 AM	81.312	81.279			N/A
5/17/2019	CADJPY.fx	11:30:00 AM	81.347	81.336			N/A
5/17/2019	CADJPY.fx	1:30:00 PM	81.323	81.312			N/A
5/17/2019	CADJPY.fx	3:30:00 PM	81.18	81.165			N/A
5/17/2019	CADMXN	9:30:00 AM	14.2008	14.2046			N/A
5/17/2019	CADMXN	11:30:00 AM	14.2059	14.2168			N/A
5/17/2019	CADMXN	1:30:00 PM	14.203	14.2132			N/A
5/17/2019	CADMXN	3:30:00 PM	14.2227	14.2245			N/A
5/17/2019	CADNOK	9:30:00 AM	6.5018	6.5064			N/A
5/17/2019	CADNOK	11:30:00 AM	6.5008	6.5051			N/A
5/17/2019	CADNOK	1:30:00 PM	6.494	6.4985			N/A
5/17/2019	CADNOK	3:30:00 PM	6.4938	6.4967			N/A
5/17/2019	CADPLN	9:30:00 AM	2.8565	2.8585			N/A
5/17/2019	CADPLN	11:30:00 AM	2.8587	2.8606			N/A
5/17/2019	CADPLN	1:30:00 PM	2.8581	2.8599			N/A
5/17/2019	CADPLN	3:30:00 PM	2.8524	2.8544			N/A
5/17/2019	CADSEK	9:30:00 AM	7.1552	7.1591			N/A
5/17/2019	CADSEK	11:30:00 AM	7.155	7.1562			N/A
5/17/2019	CADSEK	1:30:00 PM	7.1425	7.1459			N/A
5/17/2019	CADSEK	3:30:00 PM	7.1371	7.1377			N/A
5/17/2019	CADSGD	9:30:00 AM	1.0198	1.0201			N/A
5/17/2019	CADSGD	11:30:00 AM	1.0199	1.0202			N/A
5/17/2019	CADSGD	1:30:00 PM	1.0192	1.0195			N/A
5/17/2019	CADSGD	3:30:00 PM	1.0186	1.0189			N/A
5/17/2019	CADZAR	9:30:00 AM	10.6241	10.6329			N/A
5/17/2019	CADZAR	11:30:00 AM	10.6311	10.6424			N/A
5/17/2019	CADZAR	1:30:00 PM	10.6393	10.6546			N/A
5/17/2019	CADZAR	3:30:00 PM	10.6435	10.6556			N/A
5/17/2019	CHFCZK	9:30:00 AM	22.78	22.794			N/A
5/17/2019	CHFCZK	11:30:00 AM	22.803	22.816			N/A

5/17/2019	CHFCZK	1:30:00 PM	22.789	22.802			N/A
5/17/2019	CHFCZK	3:30:00 PM	22.792	22.804			N/A
5/17/2019	CHFDKK	9:30:00 AM	6.619	6.623			N/A
5/17/2019	CHFDKK	11:30:00 AM	6.622	6.626			N/A
5/17/2019	CHFDKK	1:30:00 PM	6.615	6.617			N/A
5/17/2019	CHFDKK	3:30:00 PM	6.616	6.618			N/A
5/17/2019	CHFDKK.fx	9:30:00 AM	6.6188	6.6242			N/A
5/17/2019	CHFDKK.fx	11:30:00 AM	6.6208	6.6269			N/A
5/17/2019	CHFDKK.fx	1:30:00 PM	6.6134	6.6187			N/A
5/17/2019	CHFDKK.fx	3:30:00 PM	6.6146	6.6196			N/A
5/17/2019	CHFHKD	9:30:00 AM	7.7774	7.7813			N/A
5/17/2019	CHFHKD	11:30:00 AM	7.7764	7.7801			N/A
5/17/2019	CHFHKD	1:30:00 PM	7.7653	7.769			N/A
5/17/2019	CHFHKD	3:30:00 PM	7.7675	7.7715			N/A
5/17/2019	CHFHUF	9:30:00 AM	287.61	287.97			N/A
5/17/2019	CHFHUF	11:30:00 AM	287.68	288.03			N/A
5/17/2019	CHFHUF	1:30:00 PM	288.39	288.75			N/A
5/17/2019	CHFHUF	3:30:00 PM	288.94	289.27			N/A
5/17/2019	CHFJPY	9:30:00 AM	108.57	108.619			N/A
5/17/2019	CHFJPY	11:30:00 AM	108.627	108.687			N/A
5/17/2019	CHFJPY	1:30:00 PM	108.501	108.566			N/A
5/17/2019	CHFJPY	3:30:00 PM	108.419	108.473			N/A
5/17/2019	CHFJPY.fx	9:30:00 AM	108.603	108.584			N/A
5/17/2019	CHFJPY.fx	11:30:00 AM	108.661	108.653			N/A
5/17/2019	CHFJPY.fx	1:30:00 PM	108.535	108.531			N/A
5/17/2019	CHFJPY.fx	3:30:00 PM	108.452	108.437			N/A
5/17/2019	CHFMXN	9:30:00 AM	18.9717	18.9727			N/A
5/17/2019	CHFMXN	11:30:00 AM	18.9777	18.9911			N/A
5/17/2019	CHFMXN	1:30:00 PM	18.9577	18.97			N/A
5/17/2019	CHFMXN	3:30:00 PM	19.0014	19.0044			N/A
5/17/2019	CHFNOK	9:30:00 AM	8.6854	8.6916			N/A
5/17/2019	CHFNOK	11:30:00 AM	8.6841	8.692			N/A
5/17/2019	CHFNOK	1:30:00 PM	8.6679	8.675			N/A
5/17/2019	CHFNOK	3:30:00 PM	8.6761	8.6811			N/A

5/17/2019	CHFNOK.fx	9:30:00 AM	8.68877	8.68815			N/A
5/17/2019	CHFNOK.fx	11:30:00 AM	8.68772	8.68837			N/A
5/17/2019	CHFNOK.fx	1:30:00 PM	8.67148	8.6715			N/A
5/17/2019	CHFNOK.fx	3:30:00 PM	8.67982	8.67748			N/A
5/17/2019	CHFPLN	9:30:00 AM	3.8165	3.8191			N/A
5/17/2019	CHFPLN	11:30:00 AM	3.8183	3.8214			N/A
5/17/2019	CHFPLN	1:30:00 PM	3.8147	3.8172			N/A
5/17/2019	CHFPLN	3:30:00 PM	3.8112	3.8137			N/A
5/17/2019	CHFPLN.fx	9:30:00 AM	3.81389	3.82151			N/A
5/17/2019	CHFPLN.fx	11:30:00 AM	3.81596	3.82367			N/A
5/17/2019	CHFPLN.fx	1:30:00 PM	3.81226	3.81943			N/A
5/17/2019	CHFPLN.fx	3:30:00 PM	3.80883	3.81583			N/A
5/17/2019	CHFSEK	9:30:00 AM	9.5587	9.5636			N/A
5/17/2019	CHFSEK	11:30:00 AM	9.5577	9.5593			N/A
5/17/2019	CHFSEK	1:30:00 PM	9.5338	9.5376			N/A
5/17/2019	CHFSEK	3:30:00 PM	9.5358	9.5363			N/A
5/17/2019	CHFSGD	9:30:00 AM	1.3628	1.3629			N/A
5/17/2019	CHFSGD	11:30:00 AM	1.3632	1.3634			N/A
5/17/2019	CHFSGD	1:30:00 PM	1.3612	1.3617			N/A
5/17/2019	CHFSGD	3:30:00 PM	1.3615	1.3618			N/A
5/17/2019	CHFSGD.fx	9:30:00 AM	1.36293	1.36275			N/A
5/17/2019	CHFSGD.fx	11:30:00 AM	1.36337	1.3632			N/A
5/17/2019	CHFSGD.fx	1:30:00 PM	1.3614	1.36147			N/A
5/17/2019	CHFSGD.fx	3:30:00 PM	1.36166	1.36165			N/A
5/17/2019	CHFZAR	9:30:00 AM	14.1979	14.1973			N/A
5/17/2019	CHFZAR	11:30:00 AM	14.2065	14.2121			N/A
5/17/2019	CHFZAR	1:30:00 PM	14.205	14.2166			N/A
5/17/2019	CHFZAR	3:30:00 PM	14.2242	14.2311			N/A
5/17/2019	CZKJPY	9:30:00 AM	4.766	4.768			N/A
5/17/2019	CZKJPY	11:30:00 AM	4.763	4.766			N/A
5/17/2019	CZKJPY	1:30:00 PM	4.761	4.764			N/A
5/17/2019	CZKJPY	3:30:00 PM	4.756	4.76			N/A
5/17/2019	DAX30.i	9:30:00 AM	12231.11	12228.11			N/A
5/17/2019	DAX30.i	11:30:00 AM	12212.36	12207.61			N/A

5/17/2019	DAX30.i	1:30:00 PM	12212.11	12203.86			N/A
5/17/2019	DAX30.i	3:30:00 PM	12149.11	12145.86			N/A
5/17/2019	DJ30.i	9:30:00 AM					N/A
5/17/2019	DJ30.i	11:30:00 AM					N/A
5/17/2019	DJ30.i	1:30:00 PM					N/A
5/17/2019	DJ30.i	3:30:00 PM					N/A
5/17/2019	DKKJPY	9:30:00 AM	16.41	16.43			N/A
5/17/2019	DKKJPY	11:30:00 AM	16.4	16.42			N/A
5/17/2019	DKKJPY	1:30:00 PM	16.41	16.42			N/A
5/17/2019	DKKJPY	3:30:00 PM					N/A
5/17/2019	EURAUD	9:30:00 AM	1.62312	1.62271			N/A
5/17/2019	EURAUD	11:30:00 AM	1.62366	1.62377			N/A
5/17/2019	EURAUD	1:30:00 PM	1.62373	1.62386			N/A
5/17/2019	EURAUD	3:30:00 PM	1.62305	1.62328			N/A
5/17/2019	EURAUD.fx	9:30:00 AM	1.6233	1.62249			N/A
5/17/2019	EURAUD.fx	11:30:00 AM	1.62387	1.62354			N/A
5/17/2019	EURAUD.fx	1:30:00 PM	1.62392	1.62363			N/A
5/17/2019	EURAUD.fx	3:30:00 PM	1.62325	1.62306			N/A
5/17/2019	EURCAD	9:30:00 AM	1.50623	1.50701			N/A
5/17/2019	EURCAD	11:30:00 AM	1.50573	1.50644			N/A
5/17/2019	EURCAD	1:30:00 PM	1.50615	1.50693			N/A
5/17/2019	EURCAD	3:30:00 PM	1.50753	1.50798			N/A
5/17/2019	EURCAD.fx	9:30:00 AM	1.50665	1.50657			N/A
5/17/2019	EURCAD.fx	11:30:00 AM	1.50616	1.50602			N/A
5/17/2019	EURCAD.fx	1:30:00 PM	1.50658	1.5065			N/A
5/17/2019	EURCAD.fx	3:30:00 PM	1.50795	1.50755			N/A
5/17/2019	EURCHF	9:30:00 AM	1.12789	1.12787			N/A
5/17/2019	EURCHF	11:30:00 AM	1.12739	1.12753			N/A
5/17/2019	EURCHF	1:30:00 PM	1.12878	1.12876			N/A
5/17/2019	EURCHF	3:30:00 PM	1.12859	1.12849			N/A
5/17/2019	EURCHF.fx	9:30:00 AM	1.12794	1.12782			N/A
5/17/2019	EURCHF.fx	11:30:00 AM	1.12745	1.12746			N/A
5/17/2019	EURCHF.fx	1:30:00 PM	1.12884	1.12869			N/A
5/17/2019	EURCHF.fx	3:30:00 PM	1.12865	1.12843			N/A

5/17/2019	EURCZK	9:30:00 AM	25.677	25.715			N/A
5/17/2019	EURCZK	11:30:00 AM	25.696	25.731			N/A
5/17/2019	EURCZK	1:30:00 PM	25.708	25.746			N/A
5/17/2019	EURCZK	3:30:00 PM	25.706	25.745			N/A
5/17/2019	EURDKK	9:30:00 AM	7.4668	7.4681			N/A
5/17/2019	EURDKK	11:30:00 AM	7.4668	7.4679			N/A
5/17/2019	EURDKK	1:30:00 PM	7.4673	7.4683			N/A
5/17/2019	EURDKK	3:30:00 PM	7.4658	7.467			N/A
5/17/2019	EURGBP	9:30:00 AM	0.87418	0.87427			N/A
5/17/2019	EURGBP	11:30:00 AM	0.87421	0.87424			N/A
5/17/2019	EURGBP	1:30:00 PM	0.87586	0.87578			N/A
5/17/2019	EURGBP	3:30:00 PM	0.876	0.87607			N/A
5/17/2019	EURGBP.fx	9:30:00 AM	0.87421	0.87423			N/A
5/17/2019	EURGBP.fx	11:30:00 AM	0.87425	0.87419			N/A
5/17/2019	EURGBP.fx	1:30:00 PM	0.87589	0.87574			N/A
5/17/2019	EURGBP.fx	3:30:00 PM	0.87604	0.87602			N/A
5/17/2019	EURHKD	9:30:00 AM	8.7723	8.7762			N/A
5/17/2019	EURHKD	11:30:00 AM	8.7677	8.773			N/A
5/17/2019	EURHKD	1:30:00 PM	8.7665	8.77			N/A
5/17/2019	EURHKD	3:30:00 PM	8.7672	8.7702			N/A
5/17/2019	EURHKD.fx	9:30:00 AM	8.77513	8.77338			N/A
5/17/2019	EURHKD.fx	11:30:00 AM	8.7705	8.77011			N/A
5/17/2019	EURHKD.fx	1:30:00 PM	8.76927	8.76725			N/A
5/17/2019	EURHKD.fx	3:30:00 PM	8.77001	8.76741			N/A
5/17/2019	EURHUF	9:30:00 AM	324.36	324.99			N/A
5/17/2019	EURHUF	11:30:00 AM	324.29	324.96			N/A
5/17/2019	EURHUF	1:30:00 PM	325.44	326.14			N/A
5/17/2019	EURHUF	3:30:00 PM	326.01	326.7			N/A
5/17/2019	EURHUF.fx	9:30:00 AM	324.641	324.798			N/A
5/17/2019	EURHUF.fx	11:30:00 AM	324.559	324.702			N/A
5/17/2019	EURHUF.fx	1:30:00 PM	325.711	325.848			N/A
5/17/2019	EURHUF.fx	3:30:00 PM	326.291	326.398			N/A
5/17/2019	EURJPY	9:30:00 AM	122.502	122.464			N/A
5/17/2019	EURJPY	11:30:00 AM	122.508	122.502			N/A

5/17/2019	EURJPY	1:30:00 PM	122.519	122.499			N/A
5/17/2019	EURJPY	3:30:00 PM	122.404	122.377			N/A
5/17/2019	EURJPY.fx	9:30:00 AM	122.504	122.46			N/A
5/17/2019	EURJPY.fx	11:30:00 AM	122.51	122.498			N/A
5/17/2019	EURJPY.fx	1:30:00 PM	122.521	122.495			N/A
5/17/2019	EURJPY.fx	3:30:00 PM	122.407	122.372			N/A
5/17/2019	EURMXN	9:30:00 AM	21.3978	21.4037			N/A
5/17/2019	EURMXN	11:30:00 AM	21.3972	21.4151			N/A
5/17/2019	EURMXN	1:30:00 PM	21.4014	21.4143			N/A
5/17/2019	EURMXN	3:30:00 PM	21.4445	21.4516			N/A
5/17/2019	EURMXN.fx	9:30:00 AM	21.4065	21.3949			N/A
5/17/2019	EURMXN.fx	11:30:00 AM	21.406	21.4067			N/A
5/17/2019	EURMXN.fx	1:30:00 PM	21.4098	21.4058			N/A
5/17/2019	EURMXN.fx	3:30:00 PM	21.4534	21.4426			N/A
5/17/2019	EURNOK	9:30:00 AM	9.7938	9.8051			N/A
5/17/2019	EURNOK	11:30:00 AM	9.7894	9.8009			N/A
5/17/2019	EURNOK	1:30:00 PM	9.7825	9.7939			N/A
5/17/2019	EURNOK	3:30:00 PM	9.7889	9.7991			N/A
5/17/2019	EURNOK.fx	9:30:00 AM	9.79895	9.79981			N/A
5/17/2019	EURNOK.fx	11:30:00 AM	9.79468	9.79538			N/A
5/17/2019	EURNOK.fx	1:30:00 PM	9.78789	9.7881			N/A
5/17/2019	EURNOK.fx	3:30:00 PM	9.79459	9.79348			N/A
5/17/2019	EURNZD	9:30:00 AM	1.70903	1.70939			N/A
5/17/2019	EURNZD	11:30:00 AM	1.70954	1.71006			N/A
5/17/2019	EURNZD	1:30:00 PM	1.71088	1.71132			N/A
5/17/2019	EURNZD	3:30:00 PM	1.71029	1.71101			N/A
5/17/2019	EURNZD.fx	9:30:00 AM	1.70943	1.70894			N/A
5/17/2019	EURNZD.fx	11:30:00 AM	1.70997	1.70963			N/A
5/17/2019	EURNZD.fx	1:30:00 PM	1.7113	1.71089			N/A
5/17/2019	EURNZD.fx	3:30:00 PM	1.71072	1.7106			N/A
5/17/2019	EURPLN	9:30:00 AM	4.3044	4.3069			N/A
5/17/2019	EURPLN	11:30:00 AM	4.3051	4.3082			N/A
5/17/2019	EURPLN	1:30:00 PM	4.3059	4.3089			N/A
5/17/2019	EURPLN	3:30:00 PM	4.3011	4.3041			N/A

5/17/2019	EURPLN.fx	9:30:00 AM	4.30358	4.30762			N/A
5/17/2019	EURPLN.fx	11:30:00 AM	4.30437	4.30892			N/A
5/17/2019	EURPLN.fx	1:30:00 PM	4.30547	4.30922			N/A
5/17/2019	EURPLN.fx	3:30:00 PM	4.30057	4.30458			N/A
5/17/2019	EURRUB	9:30:00 AM					N/A
5/17/2019	EURRUB	11:30:00 AM	71.87	72.307			N/A
5/17/2019	EURRUB	1:30:00 PM	71.818	72.248			N/A
5/17/2019	EURRUB	3:30:00 PM	71.863	72.303			N/A
5/17/2019	EURSEK	9:30:00 AM	10.7825	10.7874			N/A
5/17/2019	EURSEK	11:30:00 AM	10.7771	10.7787			N/A
5/17/2019	EURSEK	1:30:00 PM	10.763	10.7665			N/A
5/17/2019	EURSEK	3:30:00 PM	10.7628	10.7639			N/A
5/17/2019	EURSEK.fx	9:30:00 AM	10.78441	10.78554			N/A
5/17/2019	EURSEK.fx	11:30:00 AM	10.77878	10.77674			N/A
5/17/2019	EURSEK.fx	1:30:00 PM	10.76486	10.76443			N/A
5/17/2019	EURSEK.fx	3:30:00 PM	10.76475	10.76224			N/A
5/17/2019	EURSGD	9:30:00 AM	1.5368	1.5375			N/A
5/17/2019	EURSGD	11:30:00 AM	1.5368	1.5373			N/A
5/17/2019	EURSGD	1:30:00 PM	1.5365	1.5371			N/A
5/17/2019	EURSGD	3:30:00 PM	1.5363	1.537			N/A
5/17/2019	EURSGD.fx	9:30:00 AM	1.53713	1.53707			N/A
5/17/2019	EURSGD.fx	11:30:00 AM	1.53711	1.53691			N/A
5/17/2019	EURSGD.fx	1:30:00 PM	1.53688	1.53667			N/A
5/17/2019	EURSGD.fx	3:30:00 PM	1.53664	1.53656			N/A
5/17/2019	EURUSD	9:30:00 AM	1.11767	1.11761			N/A
5/17/2019	EURUSD	11:30:00 AM	1.11716	1.11728			N/A
5/17/2019	EURUSD	1:30:00 PM	1.11698	1.11688			N/A
5/17/2019	EURUSD	3:30:00 PM	1.11704	1.11688	30	30	N/A
5/17/2019	EURUSD.fx	9:30:00 AM	1.11787	1.1177			N/A
5/17/2019	EURUSD.fx	11:30:00 AM	1.11736	1.11738			N/A
5/17/2019	EURUSD.fx	1:30:00 PM	1.11718	1.11696			N/A
5/17/2019	EURUSD.fx	3:30:00 PM	1.11724	1.11697			N/A
5/17/2019	EURZAR	9:30:00 AM	16.0139	16.0175			N/A
5/17/2019	EURZAR	11:30:00 AM	16.0179	16.0272			N/A

5/17/2019	EURZAR	1:30:00 PM	16.0339	16.0509			N/A
5/17/2019	EURZAR	3:30:00 PM	16.0524	16.0665			N/A
5/17/2019	EURZAR.fx	9:30:00 AM	16.01307	16.01777			N/A
5/17/2019	EURZAR.fx	11:30:00 AM	16.01744	16.02804			N/A
5/17/2019	EURZAR.fx	1:30:00 PM	16.0328	16.05147			N/A
5/17/2019	EURZAR.fx	3:30:00 PM	16.05181	16.06602			N/A
5/17/2019	GBPAUD	9:30:00 AM	1.85718	1.85696			N/A
5/17/2019	GBPAUD	11:30:00 AM	1.85798	1.85812			N/A
5/17/2019	GBPAUD	1:30:00 PM	1.85437	1.85484			N/A
5/17/2019	GBPAUD	3:30:00 PM	1.85327	1.85371			N/A
5/17/2019	GBPAUD.fx	9:30:00 AM	1.85757	1.85654			N/A
5/17/2019	GBPAUD.fx	11:30:00 AM	1.85839	1.85772			N/A
5/17/2019	GBPAUD.fx	1:30:00 PM	1.85476	1.85443			N/A
5/17/2019	GBPAUD.fx	3:30:00 PM	1.85369	1.85329			N/A
5/17/2019	GBPCAD	9:30:00 AM	1.72304	1.72371			N/A
5/17/2019	GBPCAD	11:30:00 AM	1.72249	1.723			N/A
5/17/2019	GBPCAD	1:30:00 PM	1.71987	1.72037			N/A
5/17/2019	GBPCAD	3:30:00 PM	1.72099	1.72134			N/A
5/17/2019	GBPCAD.fx	9:30:00 AM	1.72341	1.72331			N/A
5/17/2019	GBPCAD.fx	11:30:00 AM	1.7229	1.72259			N/A
5/17/2019	GBPCAD.fx	1:30:00 PM	1.72026	1.71998			N/A
5/17/2019	GBPCAD.fx	3:30:00 PM	1.72138	1.72092			N/A
5/17/2019	GBPCHF	9:30:00 AM	1.28996	1.29036			N/A
5/17/2019	GBPCHF	11:30:00 AM	1.28952	1.28983			N/A
5/17/2019	GBPCHF	1:30:00 PM	1.28865	1.28889			N/A
5/17/2019	GBPCHF	3:30:00 PM	1.28813	1.28843			N/A
5/17/2019	GBPCHF.fx	9:30:00 AM	1.29016	1.29017			N/A
5/17/2019	GBPCHF.fx	11:30:00 AM	1.28973	1.28962			N/A
5/17/2019	GBPCHF.fx	1:30:00 PM	1.28884	1.2887			N/A
5/17/2019	GBPCHF.fx	3:30:00 PM	1.28833	1.28821			N/A
5/17/2019	GBPCZK	9:30:00 AM	29.382	29.404			N/A
5/17/2019	GBPCZK	11:30:00 AM	29.408	29.418			N/A
5/17/2019	GBPCZK	1:30:00 PM	29.365	29.383			N/A
5/17/2019	GBPCZK	3:30:00 PM	29.354	29.375			N/A

5/17/2019	GBPDKK	9:30:00 AM	8.538	8.549			N/A
5/17/2019	GBPDKK	11:30:00 AM	8.538	8.548			N/A
5/17/2019	GBPDKK	1:30:00 PM	8.523	8.532			N/A
5/17/2019	GBPDKK	3:30:00 PM	8.52	8.53			N/A
5/17/2019	GBPDKK.fx	9:30:00 AM	8.5362	8.5492			N/A
5/17/2019	GBPDKK.fx	11:30:00 AM	8.5367	8.5486			N/A
5/17/2019	GBPDKK.fx	1:30:00 PM	8.5214	8.5325			N/A
5/17/2019	GBPDKK.fx	3:30:00 PM	8.5181	8.5307			N/A
5/17/2019	GBPHKD	9:30:00 AM	10.032	10.0364			N/A
5/17/2019	GBPHKD	11:30:00 AM	10.0274	10.0325			N/A
5/17/2019	GBPHKD	1:30:00 PM	10.0067	10.0099			N/A
5/17/2019	GBPHKD	3:30:00 PM	10.0057	10.0096			N/A
5/17/2019	GBPHUF	9:30:00 AM	370.99	371.45			N/A
5/17/2019	GBPHUF	11:30:00 AM	371	371.36			N/A
5/17/2019	GBPHUF	1:30:00 PM	371.61	372.03			N/A
5/17/2019	GBPHUF	3:30:00 PM	372.15	372.61			N/A
5/17/2019	GBPJPY	9:30:00 AM	140.105	140.105			N/A
5/17/2019	GBPJPY	11:30:00 AM	140.113	140.142			N/A
5/17/2019	GBPJPY	1:30:00 PM	139.868	139.878			N/A
5/17/2019	GBPJPY	3:30:00 PM	139.713	139.716			N/A
5/17/2019	GBPJPY.fx	9:30:00 AM	140.123	140.086			N/A
5/17/2019	GBPJPY.fx	11:30:00 AM	140.132	140.122			N/A
5/17/2019	GBPJPY.fx	1:30:00 PM	139.888	139.857			N/A
5/17/2019	GBPJPY.fx	3:30:00 PM	139.733	139.695			N/A
5/17/2019	GBPMXN	9:30:00 AM	24.4737	24.4716			N/A
5/17/2019	GBPMXN	11:30:00 AM	24.4728	24.4858			N/A
5/17/2019	GBPMXN	1:30:00 PM	24.4294	24.4387			N/A
5/17/2019	GBPMXN	3:30:00 PM	24.4753	24.4756			N/A
5/17/2019	GBPNOK	9:30:00 AM	11.2044	11.2146			N/A
5/17/2019	GBPNOK	11:30:00 AM	11.1999	11.2094			N/A
5/17/2019	GBPNOK	1:30:00 PM	11.1711	11.1804			N/A
5/17/2019	GBPNOK	3:30:00 PM	11.1755	11.1845			N/A
5/17/2019	GBPNOK.fx	9:30:00 AM	11.2089	11.20987			N/A
5/17/2019	GBPNOK.fx	11:30:00 AM	11.20468	11.20433			N/A

5/17/2019	GBPNOK.fx	1:30:00 PM	11.17613	11.17555			N/A
5/17/2019	GBPNOK.fx	3:30:00 PM	11.18049	11.17949			N/A
5/17/2019	GBPNZD	9:30:00 AM	1.95498	1.95519			N/A
5/17/2019	GBPNZD	11:30:00 AM	1.95577	1.95587			N/A
5/17/2019	GBPNZD	1:30:00 PM	1.95335	1.95379			N/A
5/17/2019	GBPNZD	3:30:00 PM	1.95249	1.95305			N/A
5/17/2019	GBPNZD.fx	9:30:00 AM	1.95532	1.95478			N/A
5/17/2019	GBPNZD.fx	11:30:00 AM	1.95613	1.95548			N/A
5/17/2019	GBPNZD.fx	1:30:00 PM	1.95371	1.9534			N/A
5/17/2019	GBPNZD.fx	3:30:00 PM	1.95289	1.95262			N/A
5/17/2019	GBPPLN	9:30:00 AM	4.9247	4.9257			N/A
5/17/2019	GBPPLN	11:30:00 AM	4.9255	4.927			N/A
5/17/2019	GBPPLN	1:30:00 PM	4.9175	4.9186			N/A
5/17/2019	GBPPLN	3:30:00 PM	4.9105	4.9124			N/A
5/17/2019	GBPPLN.fx	9:30:00 AM	4.92232	4.92804			N/A
5/17/2019	GBPPLN.fx	11:30:00 AM	4.92341	4.92911			N/A
5/17/2019	GBPPLN.fx	1:30:00 PM	4.91546	4.92056			N/A
5/17/2019	GBPPLN.fx	3:30:00 PM	4.90846	4.91424			N/A
5/17/2019	GBPSEK	9:30:00 AM	12.3318	12.341			N/A
5/17/2019	GBPSEK	11:30:00 AM	12.3253	12.3308			N/A
5/17/2019	GBPSEK	1:30:00 PM	12.2869	12.2928			N/A
5/17/2019	GBPSEK	3:30:00 PM	12.2841	12.2894			N/A
5/17/2019	GBPSEK.fx	9:30:00 AM	12.32823	12.34461			N/A
5/17/2019	GBPSEK.fx	11:30:00 AM	12.32218	12.3345			N/A
5/17/2019	GBPSEK.fx	1:30:00 PM	12.28334	12.29681			N/A
5/17/2019	GBPSEK.fx	3:30:00 PM	12.28007	12.29302			N/A
5/17/2019	GBPSGD	9:30:00 AM	1.7579	1.7585			N/A
5/17/2019	GBPSGD	11:30:00 AM	1.7581	1.7583			N/A
5/17/2019	GBPSGD	1:30:00 PM	1.7542	1.7547			N/A
5/17/2019	GBPSGD	3:30:00 PM	1.7538	1.7543			N/A
5/17/2019	GBPSGD.fx	9:30:00 AM	1.75605	1.76035			N/A
5/17/2019	GBPSGD.fx	11:30:00 AM	1.75622	1.76006			N/A
5/17/2019	GBPSGD.fx	1:30:00 PM	1.75238	1.75654			N/A
5/17/2019	GBPSGD.fx	3:30:00 PM	1.75194	1.75614			N/A

5/17/2019	GBPUSD	9:30:00 AM	1.27865	1.27859			N/A
5/17/2019	GBPUSD	11:30:00 AM	1.27814	1.27812			N/A
5/17/2019	GBPUSD	1:30:00 PM	1.27546	1.27528	3000	200	N/A
5/17/2019	GBPUSD	3:30:00 PM	1.27533	1.27512			N/A
5/17/2019	GBPUSD.fx	9:30:00 AM	1.2787	1.27853			N/A
5/17/2019	GBPUSD.fx	11:30:00 AM	1.2782	1.27806			N/A
5/17/2019	GBPUSD.fx	1:30:00 PM	1.27552	1.27522			N/A
5/17/2019	GBPUSD.fx	3:30:00 PM	1.2754	1.27506			N/A
5/17/2019	GBPZAR	9:30:00 AM	18.3146	18.3257			N/A
5/17/2019	GBPZAR	11:30:00 AM	18.3203	18.3368			N/A
5/17/2019	GBPZAR	1:30:00 PM	18.3029	18.3287			N/A
5/17/2019	GBPZAR	3:30:00 PM	18.3209	18.3414			N/A
5/17/2019	GBPZAR.fx	9:30:00 AM	18.3214	18.3189			N/A
5/17/2019	GBPZAR.fx	11:30:00 AM	18.3273	18.3296			N/A
5/17/2019	GBPZAR.fx	1:30:00 PM	18.3101	18.3217			N/A
5/17/2019	GBPZAR.fx	3:30:00 PM	18.3285	18.3338			N/A
5/17/2019	GOLD	9:30:00 AM	1288.39	1288.52			N/A
5/17/2019	GOLD	11:30:00 AM	1286.43	1286.82			N/A
5/17/2019	GOLD	1:30:00 PM	1284.46	1284.78			N/A
5/17/2019	GOLD	3:30:00 PM	1285.46	1285.43			N/A
5/17/2019	HKDJPY	9:30:00 AM	13.96	13.97			N/A
5/17/2019	HKDJPY	11:30:00 AM	13.97	13.98			N/A
5/17/2019	HKDJPY	1:30:00 PM					N/A
5/17/2019	HKDJPY	3:30:00 PM	13.96	13.97			N/A
5/17/2019	HKDJPY.fx	9:30:00 AM	13.956	13.961			N/A
5/17/2019	HKDJPY.fx	11:30:00 AM	13.964	13.97			N/A
5/17/2019	HKDJPY.fx	1:30:00 PM	13.968	13.975			N/A
5/17/2019	HKDJPY.fx	3:30:00 PM	13.953	13.96			N/A
5/17/2019	HUFJPY	9:30:00 AM	0.3776	0.3779			N/A
5/17/2019	HUFJPY	11:30:00 AM	0.3778	0.3781			N/A
5/17/2019	HUFJPY	1:30:00 PM	0.3763	0.3765			N/A
5/17/2019	HUFJPY	3:30:00 PM	0.3752	0.3755			N/A
5/17/2019	JP225.i	9:30:00 AM	21238.67	21251.17			N/A
5/17/2019	JP225.i	11:30:00 AM	21218.67	21228.67			N/A

5/17/2019	JP225.i	1:30:00 PM	21218.67	21228.67			N/A
5/17/2019	JP225.i	3:30:00 PM	21138.67	21153.67			N/A
5/17/2019	MXNJPY	9:30:00 AM	5.73	5.73			N/A
5/17/2019	MXNJPY	11:30:00 AM	5.72	5.73			N/A
5/17/2019	MXNJPY	1:30:00 PM					N/A
5/17/2019	MXNJPY	3:30:00 PM	5.71	5.71			N/A
5/17/2019	NASDAQ.i	9:30:00 AM					N/A
5/17/2019	NASDAQ.i	11:30:00 AM					N/A
5/17/2019	NASDAQ.i	1:30:00 PM					N/A
5/17/2019	NASDAQ.i	3:30:00 PM					N/A
5/17/2019	NOKJPY	9:30:00 AM	12.49	12.52			N/A
5/17/2019	NOKJPY	11:30:00 AM	12.5	12.53			N/A
5/17/2019	NOKJPY	1:30:00 PM	12.51	12.54			N/A
5/17/2019	NOKJPY	3:30:00 PM	12.49	12.51			N/A
5/17/2019	NOKJPY.fx	9:30:00 AM	12.498	12.5			N/A
5/17/2019	NOKJPY.fx	11:30:00 AM	12.504	12.509			N/A
5/17/2019	NOKJPY.fx	1:30:00 PM	12.513	12.519			N/A
5/17/2019	NOKJPY.fx	3:30:00 PM	12.496	12.497			N/A
5/17/2019	NZDCAD	9:30:00 AM	0.88121	0.8818			N/A
5/17/2019	NZDCAD	11:30:00 AM	0.88055	0.88114			N/A
5/17/2019	NZDCAD	1:30:00 PM	0.88018	0.88075			N/A
5/17/2019	NZDCAD	3:30:00 PM	0.88113	0.88166			N/A
5/17/2019	NZDCAD.fx	9:30:00 AM	0.88156	0.88144			N/A
5/17/2019	NZDCAD.fx	11:30:00 AM	0.88088	0.8808			N/A
5/17/2019	NZDCAD.fx	1:30:00 PM	0.88051	0.8804			N/A
5/17/2019	NZDCAD.fx	3:30:00 PM	0.88146	0.88131			N/A
5/17/2019	NZDCHF	9:30:00 AM	0.65967	0.66013			N/A
5/17/2019	NZDCHF	11:30:00 AM	0.65909	0.65971			N/A
5/17/2019	NZDCHF	1:30:00 PM	0.65937	0.66002			N/A
5/17/2019	NZDCHF	3:30:00 PM	0.65941	0.66001			N/A
5/17/2019	NZDCHF.fx	9:30:00 AM	0.66002	0.65978			N/A
5/17/2019	NZDCHF.fx	11:30:00 AM	0.65943	0.65935			N/A
5/17/2019	NZDCHF.fx	1:30:00 PM	0.6597	0.65966			N/A
5/17/2019	NZDCHF.fx	3:30:00 PM	0.65975	0.65966			N/A

5/17/2019	NZDCZK	9:30:00 AM	15.029	15.038			N/A
5/17/2019	NZDCZK	11:30:00 AM	15.031	15.043			N/A
5/17/2019	NZDCZK	1:30:00 PM	15.031	15.039			N/A
5/17/2019	NZDCZK	3:30:00 PM	15.032	15.043			N/A
5/17/2019	NZDDKK	9:30:00 AM					N/A
5/17/2019	NZDDKK	11:30:00 AM	4.365	4.369			N/A
5/17/2019	NZDDKK	1:30:00 PM	4.362	4.366			N/A
5/17/2019	NZDDKK	3:30:00 PM					N/A
5/17/2019	NZDHKD	9:30:00 AM	5.1313	5.1326			N/A
5/17/2019	NZDHKD	11:30:00 AM	5.1271	5.1291			N/A
5/17/2019	NZDHKD	1:30:00 PM	5.1216	5.1235			N/A
5/17/2019	NZDHKD	3:30:00 PM	5.1234	5.1256			N/A
5/17/2019	NZDHUF	9:30:00 AM	189.74	189.97			N/A
5/17/2019	NZDHUF	11:30:00 AM	189.62	189.91			N/A
5/17/2019	NZDHUF	1:30:00 PM	190.18	190.45			N/A
5/17/2019	NZDHUF	3:30:00 PM	190.54	190.82			N/A
5/17/2019	NZDJPY	9:30:00 AM	71.65	71.675			N/A
5/17/2019	NZDJPY	11:30:00 AM	71.625	71.673			N/A
5/17/2019	NZDJPY	1:30:00 PM	71.569	71.629			N/A
5/17/2019	NZDJPY	3:30:00 PM	71.521	71.572			N/A
5/17/2019	NZDJPY.fx	9:30:00 AM	71.683	71.642			N/A
5/17/2019	NZDJPY.fx	11:30:00 AM	71.656	71.639			N/A
5/17/2019	NZDJPY.fx	1:30:00 PM	71.6	71.595			N/A
5/17/2019	NZDJPY.fx	3:30:00 PM	71.552	71.538			N/A
5/17/2019	NZDMXN	9:30:00 AM	12.5152	12.5175			N/A
5/17/2019	NZDMXN	11:30:00 AM	12.5118	12.5179			N/A
5/17/2019	NZDMXN	1:30:00 PM	12.5042	12.508			N/A
5/17/2019	NZDMXN	3:30:00 PM	12.5333	12.5336			N/A
5/17/2019	NZDNOK	9:30:00 AM	5.7293	5.7332			N/A
5/17/2019	NZDNOK	11:30:00 AM	5.7253	5.7282			N/A
5/17/2019	NZDNOK	1:30:00 PM	5.7169	5.7199			N/A
5/17/2019	NZDNOK	3:30:00 PM	5.7218	5.7242			N/A
5/17/2019	NZDPLN	9:30:00 AM	2.5177	2.5185			N/A
5/17/2019	NZDPLN	11:30:00 AM	2.5174	2.5187			N/A

5/17/2019	NZDPLN	1:30:00 PM	2.516	2.5172			N/A
5/17/2019	NZDPLN	3:30:00 PM	2.5136	2.515			N/A
5/17/2019	NZDSEK	9:30:00 AM	6.3047	6.3099			N/A
5/17/2019	NZDSEK	11:30:00 AM	6.2992	6.3035			N/A
5/17/2019	NZDSEK	1:30:00 PM	6.286	6.2919			N/A
5/17/2019	NZDSEK	3:30:00 PM	6.2866	6.2918			N/A
5/17/2019	NZDSGD	9:30:00 AM	0.8991	0.8996			N/A
5/17/2019	NZDSGD	11:30:00 AM	0.8986	0.8991			N/A
5/17/2019	NZDSGD	1:30:00 PM	0.8978	0.8984			N/A
5/17/2019	NZDSGD	3:30:00 PM	0.898	0.8985			N/A
5/17/2019	NZDSGD.fx	9:30:00 AM	0.89908	0.8995			N/A
5/17/2019	NZDSGD.fx	11:30:00 AM	0.89856	0.89907			N/A
5/17/2019	NZDSGD.fx	1:30:00 PM	0.89778	0.89831			N/A
5/17/2019	NZDSGD.fx	3:30:00 PM	0.89798	0.89841			N/A
5/17/2019	NZDUSD	9:30:00 AM	0.65401	0.6539			N/A
5/17/2019	NZDUSD	11:30:00 AM	0.65346	0.65346			N/A
5/17/2019	NZDUSD	1:30:00 PM	0.65276	0.65281			N/A
5/17/2019	NZDUSD	3:30:00 PM	0.65301	0.65298			N/A
5/17/2019	NZDUSD.fx	9:30:00 AM	0.6541	0.6539			N/A
5/17/2019	NZDUSD.fx	11:30:00 AM	0.65354	0.65347			N/A
5/17/2019	NZDUSD.fx	1:30:00 PM	0.65283	0.65282			N/A
5/17/2019	NZDUSD.fx	3:30:00 PM	0.65307	0.65299			N/A
5/17/2019	NZDZAR	9:30:00 AM	9.3605	9.3724			N/A
5/17/2019	NZDZAR	11:30:00 AM	9.3602	9.3738			N/A
5/17/2019	NZDZAR	1:30:00 PM	9.3639	9.3799			N/A
5/17/2019	NZDZAR	3:30:00 PM	9.3762	9.3905			N/A
5/17/2019	SEKJPY	9:30:00 AM	11.36	11.37			N/A
5/17/2019	SEKJPY	11:30:00 AM	11.37	11.38			N/A
5/17/2019	SEKJPY	1:30:00 PM	11.38	11.39			N/A
5/17/2019	SEKJPY	3:30:00 PM	11.37	11.38			N/A
5/17/2019	SEKJPY.fx	9:30:00 AM	11.349	11.364			N/A
5/17/2019	SEKJPY.fx	11:30:00 AM	11.359	11.374			N/A
5/17/2019	SEKJPY.fx	1:30:00 PM	11.371	11.389			N/A
5/17/2019	SEKJPY.fx	3:30:00 PM	11.365	11.376			N/A

5/17/2019	SGDJPY	9:30:00 AM	79.68	79.68			N/A
5/17/2019	SGDJPY	11:30:00 AM	79.67	79.69			N/A
5/17/2019	SGDJPY	1:30:00 PM	79.69	79.72			N/A
5/17/2019	SGDJPY	3:30:00 PM	79.66	79.64			N/A
5/17/2019	SILVER	9:30:00 AM	14.35	14.73			N/A
5/17/2019	SILVER	11:30:00 AM	14.3	14.68			N/A
5/17/2019	SILVER	1:30:00 PM	14.27	14.65			N/A
5/17/2019	SILVER	3:30:00 PM	14.26	14.64			N/A
5/17/2019	SPX500.i	9:30:00 AM	2865.74	2865.79			N/A
5/17/2019	SPX500.i	11:30:00 AM	2862.99	2862.92			N/A
5/17/2019	SPX500.i	1:30:00 PM	2865.49	2865.79			N/A
5/17/2019	SPX500.i	3:30:00 PM	2852.49	2852.54			N/A
5/17/2019	UK100.i	9:30:00 AM	7325.33	7325.33			N/A
5/17/2019	UK100.i	11:30:00 AM	7321.99	7320.99			N/A
5/17/2019	UK100.i	1:30:00 PM	7338.99	7338.49			N/A
5/17/2019	UK100.i	3:30:00 PM	7311.99	7312.49			N/A
5/17/2019	USDCAD	9:30:00 AM	1.34794	1.34774			N/A
5/17/2019	USDCAD	11:30:00 AM	1.3479	1.34785			N/A
5/17/2019	USDCAD	1:30:00 PM	1.34871	1.34863			N/A
5/17/2019	USDCAD	3:30:00 PM	1.34983	1.34961			N/A
5/17/2019	USDCAD.fx	9:30:00 AM	1.34797	1.34771			N/A
5/17/2019	USDCAD.fx	11:30:00 AM	1.34793	1.34782			N/A
5/17/2019	USDCAD.fx	1:30:00 PM	1.34876	1.3486			N/A
5/17/2019	USDCAD.fx	3:30:00 PM	1.34988	1.34955			N/A
5/17/2019	USDCHF	9:30:00 AM	1.009	1.00911			N/A
5/17/2019	USDCHF	11:30:00 AM	1.00895	1.00909			N/A
5/17/2019	USDCHF	1:30:00 PM	1.01044	1.01056			N/A
5/17/2019	USDCHF	3:30:00 PM	1.01027	1.01028			N/A
5/17/2019	USDCHF.fx	9:30:00 AM	1.00904	1.00905			N/A
5/17/2019	USDCHF.fx	11:30:00 AM	1.009	1.00901			N/A
5/17/2019	USDCHF.fx	1:30:00 PM	1.01049	1.01048			N/A
5/17/2019	USDCHF.fx	3:30:00 PM	1.01031	1.01021			N/A
5/17/2019	USDCZK	9:30:00 AM	22.997	23.016			N/A
5/17/2019	USDCZK	11:30:00 AM	23.022	23.04			N/A

5/17/2019	USDCZK	1:30:00 PM	23.039	23.059			N/A
5/17/2019	USDCZK	3:30:00 PM	23.038	23.055			N/A
5/17/2019	USDCZK.fx	9:30:00 AM	23.0048	23.0084			N/A
5/17/2019	USDCZK.fx	11:30:00 AM	23.0314	23.03			N/A
5/17/2019	USDCZK.fx	1:30:00 PM	23.048	23.0499			N/A
5/17/2019	USDCZK.fx	3:30:00 PM	23.0462	23.0456			N/A
5/17/2019	USDDKK	9:30:00 AM	6.6805	6.6837			N/A
5/17/2019	USDDKK	11:30:00 AM	6.6824	6.6865			N/A
5/17/2019	USDDKK	1:30:00 PM	6.6847	6.6874			N/A
5/17/2019	USDDKK	3:30:00 PM	6.6843	6.6867			N/A
5/17/2019	USDDKK.fx	9:30:00 AM	6.68107	6.68158			N/A
5/17/2019	USDDKK.fx	11:30:00 AM	6.68295	6.68447			N/A
5/17/2019	USDDKK.fx	1:30:00 PM	6.68525	6.68548			N/A
5/17/2019	USDDKK.fx	3:30:00 PM	6.68493	6.68473			N/A
5/17/2019	USDHKD	9:30:00 AM	7.8493	7.8497			N/A
5/17/2019	USDHKD	11:30:00 AM	7.849	7.8489			N/A
5/17/2019	USDHKD	1:30:00 PM	7.849	7.8493			N/A
5/17/2019	USDHKD	3:30:00 PM	7.8492	7.8494			N/A
5/17/2019	USDHKD.fx	9:30:00 AM	7.84937	7.84993			N/A
5/17/2019	USDHKD.fx	11:30:00 AM	7.84886	7.8494			N/A
5/17/2019	USDHKD.fx	1:30:00 PM	7.84895	7.84949			N/A
5/17/2019	USDHKD.fx	3:30:00 PM	7.84917	7.84973			N/A
5/17/2019	USDHUF	9:30:00 AM	290.28	290.69			N/A
5/17/2019	USDHUF	11:30:00 AM	290.32	290.75			N/A
5/17/2019	USDHUF	1:30:00 PM	291.47	291.88			N/A
5/17/2019	USDHUF	3:30:00 PM	291.96	292.34			N/A
5/17/2019	USDHUF.fx	9:30:00 AM	290.485	290.48			N/A
5/17/2019	USDHUF.fx	11:30:00 AM	290.523	290.545			N/A
5/17/2019	USDHUF.fx	1:30:00 PM	291.675	291.667			N/A
5/17/2019	USDHUF.fx	3:30:00 PM	292.163	292.117			N/A
5/17/2019	USDINR	9:30:00 AM	65.19	75.18			N/A
5/17/2019	USDINR	11:30:00 AM	65.17	75.16			N/A
5/17/2019	USDINR	1:30:00 PM					N/A
5/17/2019	USDINR	3:30:00 PM					N/A

5/17/2019	USDJPY	9:30:00 AM	109.579	109.57			N/A
5/17/2019	USDJPY	11:30:00 AM	109.637	109.639			N/A
5/17/2019	USDJPY	1:30:00 PM	109.669	109.675			N/A
5/17/2019	USDJPY	3:30:00 PM	109.554	109.562			N/A
5/17/2019	USDJPY.fx	9:30:00 AM	109.585	109.563			N/A
5/17/2019	USDJPY.fx	11:30:00 AM	109.643	109.632			N/A
5/17/2019	USDJPY.fx	1:30:00 PM	109.674	109.668			N/A
5/17/2019	USDJPY.fx	3:30:00 PM	109.56	109.555			N/A
5/17/2019	USDMXN	9:30:00 AM	19.149	19.141			N/A
5/17/2019	USDMXN	11:30:00 AM	19.155	19.161			N/A
5/17/2019	USDMXN	1:30:00 PM	19.163	19.167			N/A
5/17/2019	USDMXN	3:30:00 PM	19.203	19.195			N/A
5/17/2019	USDMXN.f	9:30:00 AM	19.1519	19.1375			N/A
5/17/2019	USDMXN.f	11:30:00 AM	19.1578	19.1577			N/A
5/17/2019	USDMXN.f	1:30:00 PM	19.1663	19.1628			N/A
5/17/2019	USDMXN.f	3:30:00 PM	19.2066	19.1915			N/A
5/17/2019	USDNOK	9:30:00 AM	8.764	8.7701			N/A
5/17/2019	USDNOK	11:30:00 AM	8.7625	8.7709			N/A
5/17/2019	USDNOK	1:30:00 PM	8.7589	8.7666			N/A
5/17/2019	USDNOK	3:30:00 PM	8.7652	8.7698			N/A
5/17/2019	USDNOK.fx	9:30:00 AM	8.76773	8.76565			N/A
5/17/2019	USDNOK.fx	11:30:00 AM	8.76658	8.76625			N/A
5/17/2019	USDNOK.fx	1:30:00 PM	8.76286	8.7621			N/A
5/17/2019	USDNOK.fx	3:30:00 PM	8.76938	8.76529			N/A
5/17/2019	USDPLN	9:30:00 AM	3.8516	3.8527			N/A
5/17/2019	USDPLN	11:30:00 AM	3.8535	3.8551			N/A
5/17/2019	USDPLN	1:30:00 PM	3.8557	3.8564			N/A
5/17/2019	USDPLN	3:30:00 PM	3.8513	3.8518			N/A
5/17/2019	USDPLN.fx	9:30:00 AM	3.85074	3.85341			N/A
5/17/2019	USDPLN.fx	11:30:00 AM	3.85268	3.85583			N/A
5/17/2019	USDPLN.fx	1:30:00 PM	3.85496	3.85713			N/A
5/17/2019	USDPLN.fx	3:30:00 PM	3.85048	3.85245			N/A
5/17/2019	USDRUB	9:30:00 AM					N/A
5/17/2019	USDRUB	11:30:00 AM	64.438	64.826			N/A

5/17/2019	USDRUB	1:30:00 PM	64.417	64.793			N/A
5/17/2019	USDRUB	3:30:00 PM	64.448	64.835			N/A
5/17/2019	USDSEK	9:30:00 AM	9.6467	9.6497			N/A
5/17/2019	USDSEK	11:30:00 AM	9.6443	9.6463			N/A
5/17/2019	USDSEK	1:30:00 PM	9.6346	9.6384			N/A
5/17/2019	USDSEK	3:30:00 PM	9.6349	9.634			N/A
5/17/2019	USDSEK.fx	9:30:00 AM	9.64953	9.64769			N/A
5/17/2019	USDSEK.fx	11:30:00 AM	9.64731	9.64415			N/A
5/17/2019	USDSEK.fx	1:30:00 PM	9.63731	9.63648			N/A
5/17/2019	USDSEK.fx	3:30:00 PM	9.63797	9.63206			N/A
5/17/2019	USDSGD	9:30:00 AM	1.375	1.3751			N/A
5/17/2019	USDSGD	11:30:00 AM	1.3755	1.3754			N/A
5/17/2019	USDSGD	1:30:00 PM	1.3755	1.3757			N/A
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5/17/2019	USDSGD.fx	11:30:00 AM	1.37538	1.37554			N/A
5/17/2019	USDSGD.fx	1:30:00 PM	1.37539	1.37584			N/A
5/17/2019	USDSGD.fx	3:30:00 PM	1.37527	1.37558			N/A
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5/17/2019	XAUUSD	9:30:00 AM	1288.4	1288.52			N/A
5/17/2019	XAUUSD	11:30:00 AM	1286.43	1286.81			N/A
5/17/2019	XAUUSD	1:30:00 PM	1284.48	1284.77			N/A
5/17/2019	XAUUSD	3:30:00 PM	1285.48	1285.43			N/A
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5/20/2019	#NG.f	11:30:00 AM	2.653	2.672			N/A
5/20/2019	#NG.f	1:30:00 PM	2.668	2.687			N/A
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5/20/2019	#NTDOY	3:30:00 PM					N/A
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5/20/2019	#ORAN	1:30:00 PM					N/A
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5/20/2019	#PFE	3:30:00 PM					N/A
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5/20/2019	#PG	11:30:00 AM					N/A
5/20/2019	#PG	1:30:00 PM					N/A
5/20/2019	#PG	3:30:00 PM					N/A
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5/20/2019	#POT	11:30:00 AM					N/A
5/20/2019	#POT	1:30:00 PM					N/A
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5/20/2019	#QQQ	3:30:00 PM					N/A
5/20/2019	#Ripple	9:30:00 AM	0.3979	0.4017			N/A
5/20/2019	#Ripple	11:30:00 AM	0.3922	0.3958			N/A
5/20/2019	#Ripple	1:30:00 PM	0.3971	0.4016			N/A
5/20/2019	#Ripple	3:30:00 PM	0.3925	0.3964			N/A
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5/20/2019	#S	11:30:00 AM					N/A
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5/20/2019	#S	3:30:00 PM					N/A
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5/20/2019	#SBUX	1:30:00 PM					N/A
5/20/2019	#SBUX	3:30:00 PM					N/A
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5/20/2019	#SNE	1:30:00 PM					N/A
5/20/2019	#SNE	3:30:00 PM					N/A
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5/20/2019	#SPY	11:30:00 AM					N/A
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5/20/2019	#SPY	3:30:00 PM					N/A
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5/20/2019	#T	3:30:00 PM					N/A
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5/20/2019	#TEVA	1:30:00 PM					N/A
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5/20/2019	#TRI	11:30:00 AM					N/A
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5/20/2019	#TRV	11:30:00 AM					N/A
5/20/2019	#TRV	1:30:00 PM					N/A
5/20/2019	#TRV	3:30:00 PM					N/A
5/20/2019	#TSCO	9:30:00 AM					N/A
5/20/2019	#TSCO	11:30:00 AM					N/A
5/20/2019	#TSCO	1:30:00 PM					N/A
5/20/2019	#TSCO	3:30:00 PM					N/A
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5/20/2019	#TSLA	11:30:00 AM					N/A
5/20/2019	#TSLA	1:30:00 PM					N/A
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5/20/2019	#TWTR	11:30:00 AM					N/A
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5/20/2019	#TWTR	3:30:00 PM					N/A
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5/20/2019	#UBS	11:30:00 AM					N/A
5/20/2019	#UBS	1:30:00 PM					N/A
5/20/2019	#UBS	3:30:00 PM					N/A
5/20/2019	#UL	9:30:00 AM					N/A
5/20/2019	#UL	11:30:00 AM					N/A
5/20/2019	#UL	1:30:00 PM					N/A
5/20/2019	#UL	3:30:00 PM					N/A
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5/20/2019	#UPS	11:30:00 AM					N/A
5/20/2019	#UPS	1:30:00 PM					N/A
5/20/2019	#UPS	3:30:00 PM					N/A

5/20/2019	#UTX	9:30:00 AM					N/A
5/20/2019	#UTX	11:30:00 AM					N/A
5/20/2019	#UTX	1:30:00 PM					N/A
5/20/2019	#UTX	3:30:00 PM					N/A
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5/20/2019	#V	11:30:00 AM					N/A
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5/20/2019	#V	3:30:00 PM					N/A
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5/20/2019	#VOD	1:30:00 PM					N/A
5/20/2019	#VOD	3:30:00 PM					N/A
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5/20/2019	#VZ	11:30:00 AM					N/A
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5/20/2019	#WDC	3:30:00 PM					N/A
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5/20/2019	#WFC	11:30:00 AM					N/A
5/20/2019	#WFC	1:30:00 PM					N/A
5/20/2019	#WFC	3:30:00 PM					N/A
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5/20/2019	#WMT	11:30:00 AM					N/A
5/20/2019	#WMT	1:30:00 PM					N/A
5/20/2019	#WMT	3:30:00 PM					N/A
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5/20/2019	#XOM	3:30:00 PM					N/A
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5/20/2019	#YHOO	11:30:00 AM					N/A

5/20/2019	#YHOO	1:30:00 PM					N/A
5/20/2019	#YHOO	3:30:00 PM					N/A
5/20/2019	#ZNGA	9:30:00 AM					N/A
5/20/2019	#ZNGA	11:30:00 AM					N/A
5/20/2019	#ZNGA	1:30:00 PM					N/A
5/20/2019	#ZNGA	3:30:00 PM					N/A
5/20/2019	AUDCAD	9:30:00 AM	0.92956	0.93017			N/A
5/20/2019	AUDCAD	11:30:00 AM	0.93042	0.93114			N/A
5/20/2019	AUDCAD	1:30:00 PM	0.92937	0.93003			N/A
5/20/2019	AUDCAD	3:30:00 PM	0.92798	0.92863			N/A
5/20/2019	AUDCAD.fx	9:30:00 AM	0.92988	0.92983			N/A
5/20/2019	AUDCAD.fx	11:30:00 AM	0.93075	0.9308			N/A
5/20/2019	AUDCAD.fx	1:30:00 PM	0.9297	0.92969			N/A
5/20/2019	AUDCAD.fx	3:30:00 PM	0.92832	0.92828			N/A
5/20/2019	AUDCHF	9:30:00 AM	0.70004	0.70053			N/A
5/20/2019	AUDCHF	11:30:00 AM	0.70017	0.70087			N/A
5/20/2019	AUDCHF	1:30:00 PM	0.69781	0.69844			N/A
5/20/2019	AUDCHF	3:30:00 PM	0.69736	0.69795			N/A
5/20/2019	AUDCHF.fx	9:30:00 AM	0.70038	0.70018			N/A
5/20/2019	AUDCHF.fx	11:30:00 AM	0.70052	0.70052			N/A
5/20/2019	AUDCHF.fx	1:30:00 PM	0.69816	0.69809			N/A
5/20/2019	AUDCHF.fx	3:30:00 PM	0.69773	0.6976			N/A
5/20/2019	AUDCZK	9:30:00 AM	15.977	15.992			N/A
5/20/2019	AUDCZK	11:30:00 AM	15.979	15.996			N/A
5/20/2019	AUDCZK	1:30:00 PM	15.951	15.967			N/A
5/20/2019	AUDCZK	3:30:00 PM	15.939	15.951			N/A
5/20/2019	AUDDKK	9:30:00 AM	4.6333	4.6373			N/A
5/20/2019	AUDDKK	11:30:00 AM	4.6356	4.6402			N/A
5/20/2019	AUDDKK	1:30:00 PM	4.6275	4.6317			N/A
5/20/2019	AUDDKK	3:30:00 PM	4.6244	4.628			N/A
5/20/2019	AUDHKD	9:30:00 AM	5.4303	5.4335			N/A
5/20/2019	AUDHKD	11:30:00 AM	5.4378	5.4417			N/A
5/20/2019	AUDHKD	1:30:00 PM	5.4254	5.4287			N/A
5/20/2019	AUDHKD	3:30:00 PM	5.425	5.4284			N/A

5/20/2019	AUDHUF	9:30:00 AM	202.23	202.46			N/A
5/20/2019	AUDHUF	11:30:00 AM	202.32	202.56			N/A
5/20/2019	AUDHUF	1:30:00 PM	202.03	202.23			N/A
5/20/2019	AUDHUF	3:30:00 PM	201.65	201.88			N/A
5/20/2019	AUDJPY	9:30:00 AM	76.208	76.267			N/A
5/20/2019	AUDJPY	11:30:00 AM	76.312	76.377			N/A
5/20/2019	AUDJPY	1:30:00 PM	76.015	76.071			N/A
5/20/2019	AUDJPY	3:30:00 PM	75.953	76.01			N/A
5/20/2019	AUDJPY.fx	9:30:00 AM	76.241	76.232			N/A
5/20/2019	AUDJPY.fx	11:30:00 AM	76.346	76.342			N/A
5/20/2019	AUDJPY.fx	1:30:00 PM	76.048	76.035			N/A
5/20/2019	AUDJPY.fx	3:30:00 PM	75.988	75.974			N/A
5/20/2019	AUDMXN	9:30:00 AM	13.2227	13.2308			N/A
5/20/2019	AUDMXN	11:30:00 AM	13.2399	13.2491			N/A
5/20/2019	AUDMXN	1:30:00 PM	13.2347	13.2439			N/A
5/20/2019	AUDMXN	3:30:00 PM	13.2117	13.2217			N/A
5/20/2019	AUDNOK	9:30:00 AM	6.0738	6.078			N/A
5/20/2019	AUDNOK	11:30:00 AM	6.0778	6.0822			N/A
5/20/2019	AUDNOK	1:30:00 PM	6.0761	6.0806			N/A
5/20/2019	AUDNOK	3:30:00 PM	6.0696	6.0731			N/A
5/20/2019	AUDNOK.fx	9:30:00 AM	6.0753	6.0765			N/A
5/20/2019	AUDNOK.fx	11:30:00 AM	6.0793	6.0805			N/A
5/20/2019	AUDNOK.fx	1:30:00 PM	6.0776	6.0789			N/A
5/20/2019	AUDNOK.fx	3:30:00 PM	6.0711	6.0713			N/A
5/20/2019	AUDNZD	9:30:00 AM	1.05825	1.05914			N/A
5/20/2019	AUDNZD	11:30:00 AM	1.05881	1.05973			N/A
5/20/2019	AUDNZD	1:30:00 PM	1.05786	1.05866			N/A
5/20/2019	AUDNZD	3:30:00 PM	1.05704	1.05792			N/A
5/20/2019	AUDNZD.fx	9:30:00 AM	1.05869	1.05868			N/A
5/20/2019	AUDNZD.fx	11:30:00 AM	1.05927	1.05927			N/A
5/20/2019	AUDNZD.fx	1:30:00 PM	1.0583	1.05821			N/A
5/20/2019	AUDNZD.fx	3:30:00 PM	1.05748	1.05746			N/A
5/20/2019	AUDPLN	9:30:00 AM	2.6699	2.6725			N/A
5/20/2019	AUDPLN	11:30:00 AM	2.668	2.6712			N/A

5/20/2019	AUDPLN	1:30:00 PM	2.6643	2.6674			N/A
5/20/2019	AUDPLN	3:30:00 PM	2.6607	2.6631			N/A
5/20/2019	AUDSEK	9:30:00 AM	6.6744	6.6746			N/A
5/20/2019	AUDSEK	11:30:00 AM	6.676	6.6791			N/A
5/20/2019	AUDSEK	1:30:00 PM	6.6752	6.6781			N/A
5/20/2019	AUDSEK	3:30:00 PM	6.6728	6.6742			N/A
5/20/2019	AUDSEK.fx	9:30:00 AM	6.6699	6.6791			N/A
5/20/2019	AUDSEK.fx	11:30:00 AM	6.6713	6.6837			N/A
5/20/2019	AUDSEK.fx	1:30:00 PM	6.6708	6.6825			N/A
5/20/2019	AUDSEK.fx	3:30:00 PM	6.6683	6.6785			N/A
5/20/2019	AUDSGD	9:30:00 AM	0.9525	0.9528			N/A
5/20/2019	AUDSGD	11:30:00 AM	0.953	0.9533			N/A
5/20/2019	AUDSGD	1:30:00 PM	0.9517	0.952			N/A
5/20/2019	AUDSGD	3:30:00 PM	0.9514	0.9516			N/A
5/20/2019	AUDSGD.fx	9:30:00 AM	0.95257	0.95257			N/A
5/20/2019	AUDSGD.fx	11:30:00 AM	0.95309	0.95321			N/A
5/20/2019	AUDSGD.fx	1:30:00 PM	0.95179	0.95187			N/A
5/20/2019	AUDSGD.fx	3:30:00 PM	0.95156	0.9515			N/A
5/20/2019	AUDUSD	9:30:00 AM	0.69233	0.69234			N/A
5/20/2019	AUDUSD	11:30:00 AM	0.69318	0.6933			N/A
5/20/2019	AUDUSD	1:30:00 PM	0.69155	0.6916			N/A
5/20/2019	AUDUSD	3:30:00 PM	0.69149	0.69149			N/A
5/20/2019	AUDUSD.fx	9:30:00 AM	0.69238	0.69228			N/A
5/20/2019	AUDUSD.fx	11:30:00 AM	0.69326	0.69324			N/A
5/20/2019	AUDUSD.fx	1:30:00 PM	0.6916	0.69154			N/A
5/20/2019	AUDUSD.fx	3:30:00 PM	0.69155	0.69143			N/A
5/20/2019	AUDZAR	9:30:00 AM	9.9607	9.9711			N/A
5/20/2019	AUDZAR	11:30:00 AM	9.9504	9.9637			N/A
5/20/2019	AUDZAR	1:30:00 PM	9.9448	9.9598			N/A
5/20/2019	AUDZAR	3:30:00 PM	9.9162	9.9311			N/A
5/20/2019	AUS200.i	9:30:00 AM					N/A
5/20/2019	AUS200.i	11:30:00 AM	6471.17	6474.67			N/A
5/20/2019	AUS200.i	1:30:00 PM	6436.17	6438.67			N/A
5/20/2019	AUS200.i	3:30:00 PM	6433.17	6436.47			N/A

5/20/2019	BCHUSD	9:30:00 AM	417.01	417.19			N/A
5/20/2019	BCHUSD	11:30:00 AM	415.03	415.1			N/A
5/20/2019	BCHUSD	1:30:00 PM	419.65	420.84			N/A
5/20/2019	BCHUSD	3:30:00 PM	414.83	416.73			N/A
5/20/2019	CADCHF	9:30:00 AM	0.75281	0.75337			N/A
5/20/2019	CADCHF	11:30:00 AM	0.75224	0.75296			N/A
5/20/2019	CADCHF	1:30:00 PM	0.75059	0.75122			N/A
5/20/2019	CADCHF	3:30:00 PM	0.75123	0.7518			N/A
5/20/2019	CADCHF.fx	9:30:00 AM	0.75315	0.75302			N/A
5/20/2019	CADCHF.fx	11:30:00 AM	0.75257	0.75261			N/A
5/20/2019	CADCHF.fx	1:30:00 PM	0.75093	0.75086			N/A
5/20/2019	CADCHF.fx	3:30:00 PM	0.75156	0.75144			N/A
5/20/2019	CADCZK	9:30:00 AM	17.185	17.202			N/A
5/20/2019	CADCZK	11:30:00 AM	17.171	17.188			N/A
5/20/2019	CADCZK	1:30:00 PM	17.162	17.178			N/A
5/20/2019	CADCZK	3:30:00 PM	17.173	17.185			N/A
5/20/2019	CADDDKK	9:30:00 AM					N/A
5/20/2019	CADDDKK	11:30:00 AM					N/A
5/20/2019	CADDDKK	1:30:00 PM	4.979	4.983			N/A
5/20/2019	CADDDKK	3:30:00 PM	4.983	4.986			N/A
5/20/2019	CADHKD	9:30:00 AM	5.8408	5.8447			N/A
5/20/2019	CADHKD	11:30:00 AM	5.8434	5.8473			N/A
5/20/2019	CADHKD	1:30:00 PM	5.8367	5.8402			N/A
5/20/2019	CADHKD	3:30:00 PM	5.8445	5.8484			N/A
5/20/2019	CADHUF	9:30:00 AM	217.56	217.73			N/A
5/20/2019	CADHUF	11:30:00 AM	217.46	217.61			N/A
5/20/2019	CADHUF	1:30:00 PM	217.38	217.52			N/A
5/20/2019	CADHUF	3:30:00 PM	217.3	217.46			N/A
5/20/2019	CADJPY	9:30:00 AM	81.95	82.021			N/A
5/20/2019	CADJPY	11:30:00 AM	81.987	82.056			N/A
5/20/2019	CADJPY	1:30:00 PM	81.763	81.816			N/A
5/20/2019	CADJPY	3:30:00 PM	81.816	81.877			N/A
5/20/2019	CADJPY.fx	9:30:00 AM	81.984	81.986			N/A
5/20/2019	CADJPY.fx	11:30:00 AM	82.02	82.021			N/A

5/20/2019	CADJPY.fx	1:30:00 PM	81.796	81.782			N/A
5/20/2019	CADJPY.fx	3:30:00 PM	81.849	81.842			N/A
5/20/2019	CADMXN	9:30:00 AM	14.2206	14.233			N/A
5/20/2019	CADMXN	11:30:00 AM	14.226	14.2381			N/A
5/20/2019	CADMXN	1:30:00 PM	14.2372	14.2482			N/A
5/20/2019	CADMXN	3:30:00 PM	14.2343	14.2445			N/A
5/20/2019	CADNOK	9:30:00 AM	6.5308	6.5348			N/A
5/20/2019	CADNOK	11:30:00 AM	6.5288	6.5331			N/A
5/20/2019	CADNOK	1:30:00 PM	6.5349	6.5388			N/A
5/20/2019	CADNOK	3:30:00 PM	6.5371	6.5409			N/A
5/20/2019	CADPLN	9:30:00 AM	2.8721	2.8739			N/A
5/20/2019	CADPLN	11:30:00 AM	2.8666	2.8685			N/A
5/20/2019	CADPLN	1:30:00 PM	2.8664	2.8681			N/A
5/20/2019	CADPLN	3:30:00 PM	2.8664	2.8683			N/A
5/20/2019	CADSEK	9:30:00 AM	7.1754	7.1769			N/A
5/20/2019	CADSEK	11:30:00 AM	7.1718	7.1749			N/A
5/20/2019	CADSEK	1:30:00 PM	7.1791	7.1823			N/A
5/20/2019	CADSEK	3:30:00 PM	7.186	7.1884			N/A
5/20/2019	CADSGD	9:30:00 AM	1.0237	1.024			N/A
5/20/2019	CADSGD	11:30:00 AM	1.0233	1.0236			N/A
5/20/2019	CADSGD	1:30:00 PM	1.0231	1.0233			N/A
5/20/2019	CADSGD	3:30:00 PM	1.0242	1.0245			N/A
5/20/2019	CADZAR	9:30:00 AM	10.7126	10.7261			N/A
5/20/2019	CADZAR	11:30:00 AM	10.6922	10.7072			N/A
5/20/2019	CADZAR	1:30:00 PM	10.6981	10.7145			N/A
5/20/2019	CADZAR	3:30:00 PM	10.6832	10.7006			N/A
5/20/2019	CHFCZK	9:30:00 AM	22.823	22.837			N/A
5/20/2019	CHFCZK	11:30:00 AM	22.82	22.837			N/A
5/20/2019	CHFCZK	1:30:00 PM	22.858	22.873			N/A
5/20/2019	CHFCZK	3:30:00 PM	22.855	22.868			N/A
5/20/2019	CHFDKK	9:30:00 AM	6.617	6.621			N/A
5/20/2019	CHFDKK	11:30:00 AM	6.619	6.622			N/A
5/20/2019	CHFDKK	1:30:00 PM	6.63	6.633			N/A
5/20/2019	CHFDKK	3:30:00 PM	6.63	6.633			N/A

5/20/2019	CHFDKK.fx	9:30:00 AM	6.6168	6.6219			N/A
5/20/2019	CHFDKK.fx	11:30:00 AM	6.6177	6.6235			N/A
5/20/2019	CHFDKK.fx	1:30:00 PM	6.6285	6.6346			N/A
5/20/2019	CHFDKK.fx	3:30:00 PM	6.6283	6.634			N/A
5/20/2019	CHFHKD	9:30:00 AM	7.757	7.7605			N/A
5/20/2019	CHFHKD	11:30:00 AM	7.7652	7.7691			N/A
5/20/2019	CHFHKD	1:30:00 PM	7.7739	7.7769			N/A
5/20/2019	CHFHKD	3:30:00 PM	7.7783	7.7818			N/A
5/20/2019	CHFHUF	9:30:00 AM	288.84	289.18			N/A
5/20/2019	CHFHUF	11:30:00 AM	288.88	289.24			N/A
5/20/2019	CHFHUF	1:30:00 PM	289.39	289.76			N/A
5/20/2019	CHFHUF	3:30:00 PM	289.08	289.43			N/A
5/20/2019	CHFJPY	9:30:00 AM	108.839	108.891			N/A
5/20/2019	CHFJPY	11:30:00 AM	108.948	109.018			N/A
5/20/2019	CHFJPY	1:30:00 PM	108.894	108.96			N/A
5/20/2019	CHFJPY	3:30:00 PM	108.875	108.938			N/A
5/20/2019	CHFJPY.fx	9:30:00 AM	108.872	108.856			N/A
5/20/2019	CHFJPY.fx	11:30:00 AM	108.981	108.983			N/A
5/20/2019	CHFJPY.fx	1:30:00 PM	108.928	108.926			N/A
5/20/2019	CHFJPY.fx	3:30:00 PM	108.908	108.904			N/A
5/20/2019	CHFMXN	9:30:00 AM	18.8854	18.8988			N/A
5/20/2019	CHFMXN	11:30:00 AM	18.9036	18.9188			N/A
5/20/2019	CHFMXN	1:30:00 PM	18.9616	18.9729			N/A
5/20/2019	CHFMXN	3:30:00 PM	18.9411	18.9554			N/A
5/20/2019	CHFNOK	9:30:00 AM	8.6735	8.6787			N/A
5/20/2019	CHFNOK	11:30:00 AM	8.6762	8.683			N/A
5/20/2019	CHFNOK	1:30:00 PM	8.703	8.7102			N/A
5/20/2019	CHFNOK	3:30:00 PM	8.6984	8.706			N/A
5/20/2019	CHFNOK.fx	9:30:00 AM	8.67692	8.67523			N/A
5/20/2019	CHFNOK.fx	11:30:00 AM	8.67968	8.67934			N/A
5/20/2019	CHFNOK.fx	1:30:00 PM	8.70652	8.70666			N/A
5/20/2019	CHFNOK.fx	3:30:00 PM	8.70208	8.70248			N/A
5/20/2019	CHFPLN	9:30:00 AM	3.814	3.8156			N/A
5/20/2019	CHFPLN	11:30:00 AM	3.8095	3.8123			N/A

5/20/2019	CHFPLN	1:30:00 PM	3.8168	3.8198			N/A
5/20/2019	CHFPLN	3:30:00 PM	3.8139	3.8169			N/A
5/20/2019	CHFPLN.fx	9:30:00 AM	3.81144	3.81785			N/A
5/20/2019	CHFPLN.fx	11:30:00 AM	3.80714	3.81473			N/A
5/20/2019	CHFPLN.fx	1:30:00 PM	3.81448	3.82211			N/A
5/20/2019	CHFPLN.fx	3:30:00 PM	3.81154	3.81916			N/A
5/20/2019	CHFSEK	9:30:00 AM	9.5279	9.5303			N/A
5/20/2019	CHFSEK	11:30:00 AM	9.5292	9.5335			N/A
5/20/2019	CHFSEK	1:30:00 PM	9.5613	9.5644			N/A
5/20/2019	CHFSEK	3:30:00 PM	9.5618	9.5667			N/A
5/20/2019	CHFSGD	9:30:00 AM	1.36	1.3604			N/A
5/20/2019	CHFSGD	11:30:00 AM	1.3605	1.3608			N/A
5/20/2019	CHFSGD	1:30:00 PM	1.3631	1.3635			N/A
5/20/2019	CHFSGD	3:30:00 PM	1.3638	1.3643			N/A
5/20/2019	CHFSGD.fx	9:30:00 AM	1.36033	1.36017			N/A
5/20/2019	CHFSGD.fx	11:30:00 AM	1.36063	1.36072			N/A
5/20/2019	CHFSGD.fx	1:30:00 PM	1.36343	1.36339			N/A
5/20/2019	CHFSGD.fx	3:30:00 PM	1.36393	1.36395			N/A
5/20/2019	CHFZAR	9:30:00 AM	14.2283	14.241			N/A
5/20/2019	CHFZAR	11:30:00 AM	14.212	14.223			N/A
5/20/2019	CHFZAR	1:30:00 PM	14.2526	14.264			N/A
5/20/2019	CHFZAR	3:30:00 PM	14.2198	14.2342			N/A
5/20/2019	CZKJPY	9:30:00 AM					N/A
5/20/2019	CZKJPY	11:30:00 AM					N/A
5/20/2019	CZKJPY	1:30:00 PM	4.763	4.766			N/A
5/20/2019	CZKJPY	3:30:00 PM					N/A
5/20/2019	DAX30.i	9:30:00 AM	12224.85	12223.6			N/A
5/20/2019	DAX30.i	11:30:00 AM	12222.35	12214.6			N/A
5/20/2019	DAX30.i	1:30:00 PM	12079.1	12069.6			N/A
5/20/2019	DAX30.i	3:30:00 PM	12036.85	12033.85			N/A
5/20/2019	DJ30.i	9:30:00 AM					N/A
5/20/2019	DJ30.i	11:30:00 AM					N/A
5/20/2019	DJ30.i	1:30:00 PM					N/A
5/20/2019	DJ30.i	3:30:00 PM					N/A

5/20/2019	DKKJPY	9:30:00 AM					N/A
5/20/2019	DKKJPY	11:30:00 AM					N/A
5/20/2019	DKKJPY	1:30:00 PM	16.43	16.45			N/A
5/20/2019	DKKJPY	3:30:00 PM	16.43	16.44			N/A
5/20/2019	EURAUD	9:30:00 AM	1.61036	1.61052			N/A
5/20/2019	EURAUD	11:30:00 AM	1.60941	1.60986			N/A
5/20/2019	EURAUD	1:30:00 PM	1.61232	1.6126			N/A
5/20/2019	EURAUD	3:30:00 PM	1.61364	1.61358			N/A
5/20/2019	EURAUD.fx	9:30:00 AM	1.61056	1.61032			N/A
5/20/2019	EURAUD.fx	11:30:00 AM	1.60961	1.60964			N/A
5/20/2019	EURAUD.fx	1:30:00 PM	1.61252	1.61238			N/A
5/20/2019	EURAUD.fx	3:30:00 PM	1.61385	1.61337			N/A
5/20/2019	EURCAD	9:30:00 AM	1.4976	1.49846			N/A
5/20/2019	EURCAD	11:30:00 AM	1.49837	1.4992			N/A
5/20/2019	EURCAD	1:30:00 PM	1.49935	1.50006			N/A
5/20/2019	EURCAD	3:30:00 PM	1.49834	1.49875			N/A
5/20/2019	EURCAD.fx	9:30:00 AM	1.49803	1.49798			N/A
5/20/2019	EURCAD.fx	11:30:00 AM	1.49879	1.49879			N/A
5/20/2019	EURCAD.fx	1:30:00 PM	1.49977	1.49963			N/A
5/20/2019	EURCAD.fx	3:30:00 PM	1.49877	1.49832			N/A
5/20/2019	EURCHF	9:30:00 AM	1.12821	1.12812			N/A
5/20/2019	EURCHF	11:30:00 AM	1.12797	1.12801			N/A
5/20/2019	EURCHF	1:30:00 PM	1.12608	1.1262			N/A
5/20/2019	EURCHF	3:30:00 PM	1.12617	1.12621			N/A
5/20/2019	EURCHF.fx	9:30:00 AM	1.12826	1.12806			N/A
5/20/2019	EURCHF.fx	11:30:00 AM	1.12802	1.12795			N/A
5/20/2019	EURCHF.fx	1:30:00 PM	1.12614	1.12613			N/A
5/20/2019	EURCHF.fx	3:30:00 PM	1.12623	1.12615			N/A
5/20/2019	EURCZK	9:30:00 AM	25.734	25.774			N/A
5/20/2019	EURCZK	11:30:00 AM	25.727	25.766			N/A
5/20/2019	EURCZK	1:30:00 PM	25.727	25.765			N/A
5/20/2019	EURCZK	3:30:00 PM	25.723	25.761			N/A
5/20/2019	EURDKK	9:30:00 AM	7.4669	7.4682			N/A
5/20/2019	EURDKK	11:30:00 AM	7.4674	7.468			N/A

5/20/2019	EURDKK	1:30:00 PM	7.4662	7.4673			N/A
5/20/2019	EURDKK	3:30:00 PM	7.4673	7.4684			N/A
5/20/2019	EURGBP	9:30:00 AM	0.87617	0.87608			N/A
5/20/2019	EURGBP	11:30:00 AM	0.87542	0.87523			N/A
5/20/2019	EURGBP	1:30:00 PM	0.87557	0.87556			N/A
5/20/2019	EURGBP	3:30:00 PM	0.87584	0.87595			N/A
5/20/2019	EURGBP.fx	9:30:00 AM	0.8762	0.87603			N/A
5/20/2019	EURGBP.fx	11:30:00 AM	0.87546	0.87517			N/A
5/20/2019	EURGBP.fx	1:30:00 PM	0.8756	0.87551			N/A
5/20/2019	EURGBP.fx	3:30:00 PM	0.87588	0.8759			N/A
5/20/2019	EURHKD	9:30:00 AM	8.7511	8.7562			N/A
5/20/2019	EURHKD	11:30:00 AM	8.7594	8.7641			N/A
5/20/2019	EURHKD	1:30:00 PM	8.7542	8.7588			N/A
5/20/2019	EURHKD	3:30:00 PM	8.76	8.7642			N/A
5/20/2019	EURHKD.fx	9:30:00 AM	8.75402	8.7533			N/A
5/20/2019	EURHKD.fx	11:30:00 AM	8.76219	8.76124			N/A
5/20/2019	EURHKD.fx	1:30:00 PM	8.75702	8.75597			N/A
5/20/2019	EURHKD.fx	3:30:00 PM	8.76282	8.76129			N/A
5/20/2019	EURHUF	9:30:00 AM	325.78	326.48			N/A
5/20/2019	EURHUF	11:30:00 AM	325.79	326.4			N/A
5/20/2019	EURHUF	1:30:00 PM	325.82	326.53			N/A
5/20/2019	EURHUF	3:30:00 PM	325.5	326.1			N/A
5/20/2019	EURHUF.fx	9:30:00 AM	326.016	326.204			N/A
5/20/2019	EURHUF.fx	11:30:00 AM	326.059	326.228			N/A
5/20/2019	EURHUF.fx	1:30:00 PM	326.091	326.238			N/A
5/20/2019	EURHUF.fx	3:30:00 PM	325.779	325.91			N/A
5/20/2019	EURJPY	9:30:00 AM	122.816	122.82			N/A
5/20/2019	EURJPY	11:30:00 AM	122.934	122.929			N/A
5/20/2019	EURJPY	1:30:00 PM	122.664	122.663			N/A
5/20/2019	EURJPY	3:30:00 PM	122.654	122.641			N/A
5/20/2019	EURJPY.fx	9:30:00 AM	122.819	122.816			N/A
5/20/2019	EURJPY.fx	11:30:00 AM	122.937	122.925			N/A
5/20/2019	EURJPY.fx	1:30:00 PM	122.667	122.659			N/A
5/20/2019	EURJPY.fx	3:30:00 PM	122.657	122.637			N/A

5/20/2019	EURMXN	9:30:00 AM	21.3053	21.3247			N/A
5/20/2019	EURMXN	11:30:00 AM	21.3248	21.3422			N/A
5/20/2019	EURMXN	1:30:00 PM	21.3535	21.3692			N/A
5/20/2019	EURMXN	3:30:00 PM	21.3341	21.3488			N/A
5/20/2019	EURMXN.fx	9:30:00 AM	21.3138	21.3163			N/A
5/20/2019	EURMXN.fx	11:30:00 AM	21.3332	21.3337			N/A
5/20/2019	EURMXN.fx	1:30:00 PM	21.3629	21.3603			N/A
5/20/2019	EURMXN.fx	3:30:00 PM	21.3436	21.3393			N/A
5/20/2019	EURNOK	9:30:00 AM	9.7824	9.7937			N/A
5/20/2019	EURNOK	11:30:00 AM	9.7845	9.7955			N/A
5/20/2019	EURNOK	1:30:00 PM	9.7992	9.8103			N/A
5/20/2019	EURNOK	3:30:00 PM	9.7944	9.8067			N/A
5/20/2019	EURNOK.fx	9:30:00 AM	9.78765	9.78843			N/A
5/20/2019	EURNOK.fx	11:30:00 AM	9.79001	9.78978			N/A
5/20/2019	EURNOK.fx	1:30:00 PM	9.80463	9.80468			N/A
5/20/2019	EURNOK.fx	3:30:00 PM	9.79978	9.80096			N/A
5/20/2019	EURNZD	9:30:00 AM	1.70531	1.70595			N/A
5/20/2019	EURNZD	11:30:00 AM	1.70531	1.70608			N/A
5/20/2019	EURNZD	1:30:00 PM	1.7066	1.70742			N/A
5/20/2019	EURNZD	3:30:00 PM	1.70689	1.70711			N/A
5/20/2019	EURNZD.fx	9:30:00 AM	1.70573	1.70553			N/A
5/20/2019	EURNZD.fx	11:30:00 AM	1.70572	1.70564			N/A
5/20/2019	EURNZD.fx	1:30:00 PM	1.70704	1.70699			N/A
5/20/2019	EURNZD.fx	3:30:00 PM	1.70732	1.70667			N/A
5/20/2019	EURPLN	9:30:00 AM	4.3024	4.305			N/A
5/20/2019	EURPLN	11:30:00 AM	4.2968	4.2991			N/A
5/20/2019	EURPLN	1:30:00 PM	4.2984	4.3015			N/A
5/20/2019	EURPLN	3:30:00 PM	4.2952	4.2985			N/A
5/20/2019	EURPLN.fx	9:30:00 AM	4.30147	4.30562			N/A
5/20/2019	EURPLN.fx	11:30:00 AM	4.29627	4.30062			N/A
5/20/2019	EURPLN.fx	1:30:00 PM	4.29777	4.30212			N/A
5/20/2019	EURPLN.fx	3:30:00 PM	4.29457	4.29912			N/A
5/20/2019	EURRUB	9:30:00 AM					N/A
5/20/2019	EURRUB	11:30:00 AM	71.655	72.096			N/A

5/20/2019	EURRUB	1:30:00 PM	71.648	72.084			N/A
5/20/2019	EURRUB	3:30:00 PM	71.696	72.115			N/A
5/20/2019	EURSEK	9:30:00 AM	10.7518	10.7536			N/A
5/20/2019	EURSEK	11:30:00 AM	10.7501	10.7549			N/A
5/20/2019	EURSEK	1:30:00 PM	10.7675	10.7716			N/A
5/20/2019	EURSEK	3:30:00 PM	10.7696	10.7746			N/A
5/20/2019	EURSEK.fx	9:30:00 AM	10.75378	10.75194			N/A
5/20/2019	EURSEK.fx	11:30:00 AM	10.7516	10.75326			N/A
5/20/2019	EURSEK.fx	1:30:00 PM	10.7693	10.76982			N/A
5/20/2019	EURSEK.fx	3:30:00 PM	10.77128	10.77275			N/A
5/20/2019	EURSGD	9:30:00 AM	1.5342	1.535			N/A
5/20/2019	EURSGD	11:30:00 AM	1.5344	1.5352			N/A
5/20/2019	EURSGD	1:30:00 PM	1.535	1.5357			N/A
5/20/2019	EURSGD	3:30:00 PM	1.5357	1.5363			N/A
5/20/2019	EURSGD.fx	9:30:00 AM	1.5346	1.53463			N/A
5/20/2019	EURSGD.fx	11:30:00 AM	1.5348	1.53484			N/A
5/20/2019	EURSGD.fx	1:30:00 PM	1.53537	1.53532			N/A
5/20/2019	EURSGD.fx	3:30:00 PM	1.53612	1.53591			N/A
5/20/2019	EURUSD	9:30:00 AM	1.11516	1.11524			N/A
5/20/2019	EURUSD	11:30:00 AM	1.11612	1.11616			N/A
5/20/2019	EURUSD	1:30:00 PM	1.11537	1.11541			N/A
5/20/2019	EURUSD	3:30:00 PM	1.11612	1.11608			N/A
5/20/2019	EURUSD.fx	9:30:00 AM	1.11536	1.11533			N/A
5/20/2019	EURUSD.fx	11:30:00 AM	1.11633	1.11625			N/A
5/20/2019	EURUSD.fx	1:30:00 PM	1.11555	1.11549			N/A
5/20/2019	EURUSD.fx	3:30:00 PM	1.11632	1.11617			N/A
5/20/2019	EURZAR	9:30:00 AM	16.0532	16.0687			N/A
5/20/2019	EURZAR	11:30:00 AM	16.0313	16.0478			N/A
5/20/2019	EURZAR	1:30:00 PM	16.0504	16.0671			N/A
5/20/2019	EURZAR	3:30:00 PM	16.0153	16.0328			N/A
5/20/2019	EURZAR.fx	9:30:00 AM	16.05347	16.06953			N/A
5/20/2019	EURZAR.fx	11:30:00 AM	16.03069	16.04833			N/A
5/20/2019	EURZAR.fx	1:30:00 PM	16.05035	16.06766			N/A
5/20/2019	EURZAR.fx	3:30:00 PM	16.01481	16.03314			N/A

5/20/2019	GBPAUD	9:30:00 AM	1.83877	1.83883			N/A
5/20/2019	GBPAUD	11:30:00 AM	1.83954	1.83965			N/A
5/20/2019	GBPAUD	1:30:00 PM	1.842	1.84256			N/A
5/20/2019	GBPAUD	3:30:00 PM	1.84279	1.84305			N/A
5/20/2019	GBPAUD.fx	9:30:00 AM	1.83916	1.83843			N/A
5/20/2019	GBPAUD.fx	11:30:00 AM	1.83995	1.83925			N/A
5/20/2019	GBPAUD.fx	1:30:00 PM	1.84241	1.84215			N/A
5/20/2019	GBPAUD.fx	3:30:00 PM	1.8432	1.84265			N/A
5/20/2019	GBPCAD	9:30:00 AM	1.70966	1.71007		10	N/A
5/20/2019	GBPCAD	11:30:00 AM	1.71215	1.71238			N/A
5/20/2019	GBPCAD	1:30:00 PM	1.71253	1.7131			N/A
5/20/2019	GBPCAD	3:30:00 PM	1.71067	1.71107			N/A
5/20/2019	GBPCAD.fx	9:30:00 AM	1.71005	1.70966			N/A
5/20/2019	GBPCAD.fx	11:30:00 AM	1.71254	1.71199			N/A
5/20/2019	GBPCAD.fx	1:30:00 PM	1.71293	1.7127			N/A
5/20/2019	GBPCAD.fx	3:30:00 PM	1.71108	1.71066			N/A
5/20/2019	GBPCHF	9:30:00 AM	1.28768	1.28788			N/A
5/20/2019	GBPCHF	11:30:00 AM	1.28864	1.28861			N/A
5/20/2019	GBPCHF	1:30:00 PM	1.28611	1.28629			N/A
5/20/2019	GBPCHF	3:30:00 PM	1.28554	1.28596			N/A
5/20/2019	GBPCHF.fx	9:30:00 AM	1.28786	1.28768			N/A
5/20/2019	GBPCHF.fx	11:30:00 AM	1.28883	1.2884			N/A
5/20/2019	GBPCHF.fx	1:30:00 PM	1.2863	1.28608			N/A
5/20/2019	GBPCHF.fx	3:30:00 PM	1.28572	1.28573			N/A
5/20/2019	GBPCZK	9:30:00 AM	29.386	29.401			N/A
5/20/2019	GBPCZK	11:30:00 AM	29.407	29.418			N/A
5/20/2019	GBPCZK	1:30:00 PM	29.394	29.414			N/A
5/20/2019	GBPCZK	3:30:00 PM	29.378	29.399			N/A
5/20/2019	GBPDKK	9:30:00 AM	8.52	8.529			N/A
5/20/2019	GBPDKK	11:30:00 AM	8.528	8.537			N/A
5/20/2019	GBPDKK	1:30:00 PM	8.525	8.536			N/A
5/20/2019	GBPDKK	3:30:00 PM	8.521	8.532			N/A
5/20/2019	GBPDKK.fx	9:30:00 AM	8.518	8.5292			N/A
5/20/2019	GBPDKK.fx	11:30:00 AM	8.5268	8.5369			N/A

5/20/2019	GBPDKK.fx	1:30:00 PM	8.5237	8.5355			N/A
5/20/2019	GBPDKK.fx	3:30:00 PM	8.5197	8.5328			N/A
5/20/2019	GBPHKD	9:30:00 AM	9.986	9.9905			N/A
5/20/2019	GBPHKD	11:30:00 AM	10.0061	10.0076			N/A
5/20/2019	GBPHKD	1:30:00 PM	9.9966	10.0006			N/A
5/20/2019	GBPHKD	3:30:00 PM	9.9984	10.0035			N/A
5/20/2019	GBPHUF	9:30:00 AM	371.89	372.26			N/A
5/20/2019	GBPHUF	11:30:00 AM	372.24	372.58			N/A
5/20/2019	GBPHUF	1:30:00 PM	372.16	372.61			N/A
5/20/2019	GBPHUF	3:30:00 PM	371.64	372.03			N/A
5/20/2019	GBPJPY	9:30:00 AM	140.177	140.187			N/A
5/20/2019	GBPJPY	11:30:00 AM	140.443	140.436			N/A
5/20/2019	GBPJPY	1:30:00 PM	140.097	140.101			N/A
5/20/2019	GBPJPY	3:30:00 PM	140.01	140.039			N/A
5/20/2019	GBPJPY.fx	9:30:00 AM	140.196	140.166			N/A
5/20/2019	GBPJPY.fx	11:30:00 AM	140.463	140.416			N/A
5/20/2019	GBPJPY.fx	1:30:00 PM	140.116	140.083			N/A
5/20/2019	GBPJPY.fx	3:30:00 PM	140.03	140.018			N/A
5/20/2019	GBPMXN	9:30:00 AM	24.3173	24.3275			N/A
5/20/2019	GBPMXN	11:30:00 AM	24.3639	24.37			N/A
5/20/2019	GBPMXN	1:30:00 PM	24.384	24.3952			N/A
5/20/2019	GBPMXN	3:30:00 PM	24.3525	24.3637			N/A
5/20/2019	GBPNOK	9:30:00 AM	11.1683	11.1758			N/A
5/20/2019	GBPNOK	11:30:00 AM	11.1812	11.1874			N/A
5/20/2019	GBPNOK	1:30:00 PM	11.193	11.2034			N/A
5/20/2019	GBPNOK	3:30:00 PM	11.1834	11.1948			N/A
5/20/2019	GBPNOK.fx	9:30:00 AM	11.173	11.17114			N/A
5/20/2019	GBPNOK.fx	11:30:00 AM	11.18646	11.18199			N/A
5/20/2019	GBPNOK.fx	1:30:00 PM	11.19795	11.19823			N/A
5/20/2019	GBPNOK.fx	3:30:00 PM	11.18824	11.18956			N/A
5/20/2019	GBPNZD	9:30:00 AM	1.94667	1.9468			N/A
5/20/2019	GBPNZD	11:30:00 AM	1.94853	1.9487			N/A
5/20/2019	GBPNZD	1:30:00 PM	1.94945	1.94995			N/A
5/20/2019	GBPNZD	3:30:00 PM	1.94877	1.94894			N/A

5/20/2019	GBPNZD.fx	9:30:00 AM	1.94705	1.94644			N/A
5/20/2019	GBPNZD.fx	11:30:00 AM	1.94892	1.94834			N/A
5/20/2019	GBPNZD.fx	1:30:00 PM	1.94981	1.94956			N/A
5/20/2019	GBPNZD.fx	3:30:00 PM	1.94915	1.94856			N/A
5/20/2019	GBPPLN	9:30:00 AM	4.9122	4.9123			N/A
5/20/2019	GBPPLN	11:30:00 AM	4.9105	4.9109			N/A
5/20/2019	GBPPLN	1:30:00 PM	4.9105	4.9116			N/A
5/20/2019	GBPPLN	3:30:00 PM	4.9047	4.9067			N/A
5/20/2019	GBPPLN.fx	9:30:00 AM	4.90983	4.91452			N/A
5/20/2019	GBPPLN.fx	11:30:00 AM	4.90844	4.91304			N/A
5/20/2019	GBPPLN.fx	1:30:00 PM	4.90841	4.91354			N/A
5/20/2019	GBPPLN.fx	3:30:00 PM	4.90251	4.90886			N/A
5/20/2019	GBPSEK	9:30:00 AM	12.2684	12.2755			N/A
5/20/2019	GBPSEK	11:30:00 AM	12.2817	12.2866			N/A
5/20/2019	GBPSEK	1:30:00 PM	12.2965	12.304			N/A
5/20/2019	GBPSEK	3:30:00 PM	12.2939	12.3035			N/A
5/20/2019	GBPSEK.fx	9:30:00 AM	12.26468	12.27932			N/A
5/20/2019	GBPSEK.fx	11:30:00 AM	12.27806	12.29044			N/A
5/20/2019	GBPSEK.fx	1:30:00 PM	12.29294	12.30797			N/A
5/20/2019	GBPSEK.fx	3:30:00 PM	12.29029	12.30709			N/A
5/20/2019	GBPSGD	9:30:00 AM	1.7514	1.7517			N/A
5/20/2019	GBPSGD	11:30:00 AM	1.7534	1.7536			N/A
5/20/2019	GBPSGD	1:30:00 PM	1.7533	1.7539			N/A
5/20/2019	GBPSGD	3:30:00 PM	1.7534	1.754			N/A
5/20/2019	GBPSGD.fx	9:30:00 AM	1.74954	1.75356			N/A
5/20/2019	GBPSGD.fx	11:30:00 AM	1.75148	1.75536			N/A
5/20/2019	GBPSGD.fx	1:30:00 PM	1.75148	1.75569			N/A
5/20/2019	GBPSGD.fx	3:30:00 PM	1.75155	1.75583			N/A
5/20/2019	GBPUSD	9:30:00 AM	1.27313	1.27292			N/A
5/20/2019	GBPUSD	11:30:00 AM	1.27546	1.27508			N/A
5/20/2019	GBPUSD	1:30:00 PM	1.27421	1.27406			N/A
5/20/2019	GBPUSD	3:30:00 PM	1.27439	1.27436			N/A
5/20/2019	GBPUSD.fx	9:30:00 AM	1.27319	1.27284			N/A
5/20/2019	GBPUSD.fx	11:30:00 AM	1.27552	1.27503			N/A

5/20/2019	GBPUSD.fx	1:30:00 PM	1.27426	1.274			N/A
5/20/2019	GBPUSD.fx	3:30:00 PM	1.27444	1.27429			N/A
5/20/2019	GBPZAR	9:30:00 AM	18.3195	18.3459			N/A
5/20/2019	GBPZAR	11:30:00 AM	18.3125	18.3339			N/A
5/20/2019	GBPZAR	1:30:00 PM	18.3264	18.3532			N/A
5/20/2019	GBPZAR	3:30:00 PM	18.2815	18.3088			N/A
5/20/2019	GBPZAR.fx	9:30:00 AM	18.327	18.3393			N/A
5/20/2019	GBPZAR.fx	11:30:00 AM	18.3194	18.3264			N/A
5/20/2019	GBPZAR.fx	1:30:00 PM	18.3341	18.3461			N/A
5/20/2019	GBPZAR.fx	3:30:00 PM	18.2887	18.3017			N/A
5/20/2019	GOLD	9:30:00 AM	1276.14	1276.55			N/A
5/20/2019	GOLD	11:30:00 AM	1275.5	1275.73			N/A
5/20/2019	GOLD	1:30:00 PM	1274.85	1275.06			N/A
5/20/2019	GOLD	3:30:00 PM	1276.7	1276.81			N/A
5/20/2019	HKDJPY	9:30:00 AM					N/A
5/20/2019	HKDJPY	11:30:00 AM					N/A
5/20/2019	HKDJPY	1:30:00 PM	14.01	14.02			N/A
5/20/2019	HKDJPY	3:30:00 PM	14	14.01			N/A
5/20/2019	HKDJPY.fx	9:30:00 AM	14.026	14.033			N/A
5/20/2019	HKDJPY.fx	11:30:00 AM	14.026	14.033			N/A
5/20/2019	HKDJPY.fx	1:30:00 PM	14.004	14.01			N/A
5/20/2019	HKDJPY.fx	3:30:00 PM	13.994	14			N/A
5/20/2019	HUFJPY	9:30:00 AM	0.3768	0.3771			N/A
5/20/2019	HUFJPY	11:30:00 AM	0.3772	0.3775			N/A
5/20/2019	HUFJPY	1:30:00 PM	0.3762	0.3765			N/A
5/20/2019	HUFJPY	3:30:00 PM	0.3766	0.377			N/A
5/20/2019	JP225.i	9:30:00 AM	21281.1	21293.6			N/A
5/20/2019	JP225.i	11:30:00 AM	21313.6	21328.6			N/A
5/20/2019	JP225.i	1:30:00 PM	21148.6	21153.6			N/A
5/20/2019	JP225.i	3:30:00 PM	21088.6	21102.55			N/A
5/20/2019	MXNJPY	9:30:00 AM					N/A
5/20/2019	MXNJPY	11:30:00 AM					N/A
5/20/2019	MXNJPY	1:30:00 PM					N/A
5/20/2019	MXNJPY	3:30:00 PM	5.75	5.76			N/A

5/20/2019	NASDAQ.i	9:30:00 AM					N/A
5/20/2019	NASDAQ.i	11:30:00 AM					N/A
5/20/2019	NASDAQ.i	1:30:00 PM					N/A
5/20/2019	NASDAQ.i	3:30:00 PM					N/A
5/20/2019	NOKJPY	9:30:00 AM	12.54	12.57			N/A
5/20/2019	NOKJPY	11:30:00 AM	12.55	12.58			N/A
5/20/2019	NOKJPY	1:30:00 PM					N/A
5/20/2019	NOKJPY	3:30:00 PM	12.5	12.53			N/A
5/20/2019	NOKJPY.fx	9:30:00 AM	12.544	12.551			N/A
5/20/2019	NOKJPY.fx	11:30:00 AM	12.554	12.559			N/A
5/20/2019	NOKJPY.fx	1:30:00 PM	12.508	12.513			N/A
5/20/2019	NOKJPY.fx	3:30:00 PM	12.512	12.517			N/A
5/20/2019	NZDCAD	9:30:00 AM	0.87797	0.87863			N/A
5/20/2019	NZDCAD	11:30:00 AM	0.87831	0.87905			N/A
5/20/2019	NZDCAD	1:30:00 PM	0.8782	0.87888			N/A
5/20/2019	NZDCAD	3:30:00 PM	0.87758	0.87819			N/A
5/20/2019	NZDCAD.fx	9:30:00 AM	0.8783	0.8783			N/A
5/20/2019	NZDCAD.fx	11:30:00 AM	0.87865	0.87871			N/A
5/20/2019	NZDCAD.fx	1:30:00 PM	0.87854	0.87853			N/A
5/20/2019	NZDCAD.fx	3:30:00 PM	0.87791	0.87785			N/A
5/20/2019	NZDCHF	9:30:00 AM	0.66117	0.66176			N/A
5/20/2019	NZDCHF	11:30:00 AM	0.66095	0.66167			N/A
5/20/2019	NZDCHF	1:30:00 PM	0.65935	0.66005			N/A
5/20/2019	NZDCHF	3:30:00 PM	0.65947	0.66001			N/A
5/20/2019	NZDCHF.fx	9:30:00 AM	0.6615	0.66137			N/A
5/20/2019	NZDCHF.fx	11:30:00 AM	0.66129	0.66131			N/A
5/20/2019	NZDCHF.fx	1:30:00 PM	0.65969	0.6597			N/A
5/20/2019	NZDCHF.fx	3:30:00 PM	0.6598	0.65966			N/A
5/20/2019	NZDCZK	9:30:00 AM	15.093	15.103			N/A
5/20/2019	NZDCZK	11:30:00 AM	15.087	15.099			N/A
5/20/2019	NZDCZK	1:30:00 PM	15.076	15.087			N/A
5/20/2019	NZDCZK	3:30:00 PM	15.076	15.082			N/A
5/20/2019	NZDDKK	9:30:00 AM					N/A
5/20/2019	NZDDKK	11:30:00 AM					N/A

5/20/2019	NZDDKK	1:30:00 PM	4.373	4.377			N/A
5/20/2019	NZDDKK	3:30:00 PM	4.372	4.376			N/A
5/20/2019	NZDHKD	9:30:00 AM	5.1287	5.1316			N/A
5/20/2019	NZDHKD	11:30:00 AM	5.1336	5.1365			N/A
5/20/2019	NZDHKD	1:30:00 PM	5.1264	5.129			N/A
5/20/2019	NZDHKD	3:30:00 PM	5.1304	5.1327			N/A
5/20/2019	NZDHUF	9:30:00 AM	190.96	191.26			N/A
5/20/2019	NZDHUF	11:30:00 AM	190.96	191.24			N/A
5/20/2019	NZDHUF	1:30:00 PM	190.86	191.13			N/A
5/20/2019	NZDHUF	3:30:00 PM	190.65	190.93			N/A
5/20/2019	NZDJPY	9:30:00 AM	71.977	72.043			N/A
5/20/2019	NZDJPY	11:30:00 AM	72.037	72.108			N/A
5/20/2019	NZDJPY	1:30:00 PM	71.824	71.891			N/A
5/20/2019	NZDJPY	3:30:00 PM	71.823	71.88			N/A
5/20/2019	NZDJPY.fx	9:30:00 AM	72.007	72.009			N/A
5/20/2019	NZDJPY.fx	11:30:00 AM	72.068	72.075			N/A
5/20/2019	NZDJPY.fx	1:30:00 PM	71.855	71.858			N/A
5/20/2019	NZDJPY.fx	3:30:00 PM	71.853	71.846			N/A
5/20/2019	NZDMXN	9:30:00 AM	12.4897	12.4957			N/A
5/20/2019	NZDMXN	11:30:00 AM	12.4995	12.5053			N/A
5/20/2019	NZDMXN	1:30:00 PM	12.5071	12.5112			N/A
5/20/2019	NZDMXN	3:30:00 PM	12.4945	12.4995			N/A
5/20/2019	NZDNOK	9:30:00 AM	5.7345	5.7383			N/A
5/20/2019	NZDNOK	11:30:00 AM	5.7355	5.7389			N/A
5/20/2019	NZDNOK	1:30:00 PM	5.7398	5.7427			N/A
5/20/2019	NZDNOK	3:30:00 PM	5.7377	5.7403			N/A
5/20/2019	NZDPLN	9:30:00 AM	2.5217	2.5232			N/A
5/20/2019	NZDPLN	11:30:00 AM	2.5184	2.5199			N/A
5/20/2019	NZDPLN	1:30:00 PM	2.5176	2.5188			N/A
5/20/2019	NZDPLN	3:30:00 PM	2.5159	2.5172			N/A
5/20/2019	NZDSEK	9:30:00 AM	6.2989	6.3034			N/A
5/20/2019	NZDSEK	11:30:00 AM	6.2984	6.3054			N/A
5/20/2019	NZDSEK	1:30:00 PM	6.3034	6.31			N/A
5/20/2019	NZDSEK	3:30:00 PM	6.3053	6.3108			N/A

5/20/2019	NZDSGD	9:30:00 AM	0.8995	0.9			N/A
5/20/2019	NZDSGD	11:30:00 AM	0.8995	0.8997			N/A
5/20/2019	NZDSGD	1:30:00 PM	0.8991	0.8998			N/A
5/20/2019	NZDSGD	3:30:00 PM	0.8995	0.9001			N/A
5/20/2019	NZDSGD.fx	9:30:00 AM	0.89949	0.90001			N/A
5/20/2019	NZDSGD.fx	11:30:00 AM	0.89951	0.90015			N/A
5/20/2019	NZDSGD.fx	1:30:00 PM	0.89911	0.89971			N/A
5/20/2019	NZDSGD.fx	3:30:00 PM	0.89959	0.90001			N/A
5/20/2019	NZDUSD	9:30:00 AM	0.65385	0.65392			N/A
5/20/2019	NZDUSD	11:30:00 AM	0.65434	0.65449			N/A
5/20/2019	NZDUSD	1:30:00 PM	0.65337	0.65348			N/A
5/20/2019	NZDUSD	3:30:00 PM	0.65384	0.65384			N/A
5/20/2019	NZDUSD.fx	9:30:00 AM	0.65392	0.65393			N/A
5/20/2019	NZDUSD.fx	11:30:00 AM	0.65441	0.6545			N/A
5/20/2019	NZDUSD.fx	1:30:00 PM	0.65346	0.65349			N/A
5/20/2019	NZDUSD.fx	3:30:00 PM	0.65393	0.65385			N/A
5/20/2019	NZDZAR	9:30:00 AM	9.4057	9.4189			N/A
5/20/2019	NZDZAR	11:30:00 AM	9.3917	9.407			N/A
5/20/2019	NZDZAR	1:30:00 PM	9.3955	9.4115			N/A
5/20/2019	NZDZAR	3:30:00 PM	9.376	9.392			N/A
5/20/2019	SEKJPY	9:30:00 AM	11.42	11.43			N/A
5/20/2019	SEKJPY	11:30:00 AM	11.43	11.44			N/A
5/20/2019	SEKJPY	1:30:00 PM	11.39	11.4			N/A
5/20/2019	SEKJPY	3:30:00 PM	11.39	11.39			N/A
5/20/2019	SEKJPY.fx	9:30:00 AM	11.414	11.429			N/A
5/20/2019	SEKJPY.fx	11:30:00 AM	11.423	11.441			N/A
5/20/2019	SEKJPY.fx	1:30:00 PM	11.381	11.398			N/A
5/20/2019	SEKJPY.fx	3:30:00 PM	11.377	11.394			N/A
5/20/2019	SGDJPY	9:30:00 AM	80.01	80.03			N/A
5/20/2019	SGDJPY	11:30:00 AM	80.06	80.09			N/A
5/20/2019	SGDJPY	1:30:00 PM	79.86	79.89			N/A
5/20/2019	SGDJPY	3:30:00 PM	79.83	79.84			N/A
5/20/2019	SILVER	9:30:00 AM	14.22	14.6			N/A
5/20/2019	SILVER	11:30:00 AM	14.22	14.59			N/A

5/20/2019	SILVER	1:30:00 PM	14.2	14.58			N/A
5/20/2019	SILVER	3:30:00 PM	14.23	14.6			N/A
5/20/2019	SPX500.i	9:30:00 AM	2866.33	2867.13			N/A
5/20/2019	SPX500.i	11:30:00 AM	2868.58	2868.63			N/A
5/20/2019	SPX500.i	1:30:00 PM	2847.08	2845.94			N/A
5/20/2019	SPX500.i	3:30:00 PM	2839.33	2839.76			N/A
5/20/2019	UK100.i	9:30:00 AM	7350.49	7352.74			N/A
5/20/2019	UK100.i	11:30:00 AM	7352.49	7351.99			N/A
5/20/2019	UK100.i	1:30:00 PM	7293.49	7292.66			N/A
5/20/2019	UK100.i	3:30:00 PM	7279.49	7280.99			N/A
5/20/2019	USDCAD	9:30:00 AM	1.34312	1.34317			N/A
5/20/2019	USDCAD	11:30:00 AM	1.34262	1.34271			N/A
5/20/2019	USDCAD	1:30:00 PM	1.34434	1.34441			N/A
5/20/2019	USDCAD	3:30:00 PM	1.34259	1.34249			N/A
5/20/2019	USDCAD.fx	9:30:00 AM	1.34316	1.34312			N/A
5/20/2019	USDCAD.fx	11:30:00 AM	1.34266	1.34268			N/A
5/20/2019	USDCAD.fx	1:30:00 PM	1.34442	1.34438			N/A
5/20/2019	USDCAD.fx	3:30:00 PM	1.34262	1.34245			N/A
5/20/2019	USDCHF	9:30:00 AM	1.01152	1.01149			N/A
5/20/2019	USDCHF	11:30:00 AM	1.01041	1.01053			N/A
5/20/2019	USDCHF	1:30:00 PM	1.00946	1.00953			N/A
5/20/2019	USDCHF	3:30:00 PM	1.00891	1.00896			N/A
5/20/2019	USDCHF.fx	9:30:00 AM	1.01157	1.01144			N/A
5/20/2019	USDCHF.fx	11:30:00 AM	1.01045	1.01047			N/A
5/20/2019	USDCHF.fx	1:30:00 PM	1.00951	1.00948			N/A
5/20/2019	USDCHF.fx	3:30:00 PM	1.00896	1.00889			N/A
5/20/2019	USDCZK	9:30:00 AM	23.097	23.12			N/A
5/20/2019	USDCZK	11:30:00 AM	23.072	23.094			N/A
5/20/2019	USDCZK	1:30:00 PM	23.087	23.108			N/A
5/20/2019	USDCZK	3:30:00 PM	23.071	23.09			N/A
5/20/2019	USDCZK.fx	9:30:00 AM	23.1053	23.111			N/A
5/20/2019	USDCZK.fx	11:30:00 AM	23.0808	23.085			N/A
5/20/2019	USDCZK.fx	1:30:00 PM	23.096	23.0996			N/A
5/20/2019	USDCZK.fx	3:30:00 PM	23.0808	23.0804			N/A

5/20/2019	USDDKK	9:30:00 AM	6.6943	6.6982			N/A
5/20/2019	USDDKK	11:30:00 AM	6.6891	6.6927			N/A
5/20/2019	USDDKK	1:30:00 PM	6.6936	6.6971			N/A
5/20/2019	USDDKK	3:30:00 PM	6.6894	6.6927			N/A
5/20/2019	USDDKK.fx	9:30:00 AM	6.69477	6.69616			N/A
5/20/2019	USDDKK.fx	11:30:00 AM	6.68954	6.69062			N/A
5/20/2019	USDDKK.fx	1:30:00 PM	6.69415	6.69507			N/A
5/20/2019	USDDKK.fx	3:30:00 PM	6.68995	6.6906			N/A
5/20/2019	USDHKD	9:30:00 AM	7.8482	7.8483			N/A
5/20/2019	USDHKD	11:30:00 AM	7.8487	7.8491			N/A
5/20/2019	USDHKD	1:30:00 PM	7.8492	7.8493			N/A
5/20/2019	USDHKD	3:30:00 PM	7.8492	7.8496			N/A
5/20/2019	USDHKD.fx	9:30:00 AM	7.84815	7.84851			N/A
5/20/2019	USDHKD.fx	11:30:00 AM	7.84871	7.8492			N/A
5/20/2019	USDHKD.fx	1:30:00 PM	7.84926	7.84983			N/A
5/20/2019	USDHKD.fx	3:30:00 PM					N/A
5/20/2019	USDHUF	9:30:00 AM	292.2	292.63			N/A
5/20/2019	USDHUF	11:30:00 AM	291.96	292.38			N/A
5/20/2019	USDHUF	1:30:00 PM	292.17	292.62			N/A
5/20/2019	USDHUF	3:30:00 PM	291.71	292.16			N/A
5/20/2019	USDHUF.fx	9:30:00 AM	292.375	292.435			N/A
5/20/2019	USDHUF.fx	11:30:00 AM	292.162	292.175			N/A
5/20/2019	USDHUF.fx	1:30:00 PM	292.382	292.405			N/A
5/20/2019	USDHUF.fx	3:30:00 PM	291.922	291.946			N/A
5/20/2019	USDINR	9:30:00 AM	64.55	74.54			N/A
5/20/2019	USDINR	11:30:00 AM	64.53	74.52			N/A
5/20/2019	USDINR	1:30:00 PM					N/A
5/20/2019	USDINR	3:30:00 PM					N/A
5/20/2019	USDJPY	9:30:00 AM	110.11	110.125			N/A
5/20/2019	USDJPY	11:30:00 AM	110.118	110.132		300	N/A
5/20/2019	USDJPY	1:30:00 PM	109.958	109.96			N/A
5/20/2019	USDJPY	3:30:00 PM	109.873	109.879			N/A
5/20/2019	USDJPY.fx	9:30:00 AM	110.115	110.118			N/A
5/20/2019	USDJPY.fx	11:30:00 AM	110.124	110.124			N/A

5/20/2019	USDJPY.fx	1:30:00 PM	109.964	109.953			N/A
5/20/2019	USDJPY.fx	3:30:00 PM	109.879	109.872			N/A
5/20/2019	USDMXN	9:30:00 AM	19.107	19.115			N/A
5/20/2019	USDMXN	11:30:00 AM	19.108	19.114			N/A
5/20/2019	USDMXN	1:30:00 PM	19.147	19.151			N/A
5/20/2019	USDMXN	3:30:00 PM	19.116	19.122			N/A
5/20/2019	USDMXN.fx	9:30:00 AM	19.1107	19.1121			N/A
5/20/2019	USDMXN.fx	11:30:00 AM	19.1115	19.1108			N/A
5/20/2019	USDMXN.fx	1:30:00 PM	19.1507	19.1472			N/A
5/20/2019	USDMXN.fx	3:30:00 PM	19.1202	19.1186			N/A
5/20/2019	USDNOK	9:30:00 AM	8.7724	8.7804			N/A
5/20/2019	USDNOK	11:30:00 AM	8.7669	8.7741			N/A
5/20/2019	USDNOK	1:30:00 PM	8.7853	8.7935			N/A
5/20/2019	USDNOK	3:30:00 PM	8.7764	8.7839			N/A
5/20/2019	USDNOK.fx	9:30:00 AM	8.7764	8.7756			N/A
5/20/2019	USDNOK.fx	11:30:00 AM	8.77113	8.76944			N/A
5/20/2019	USDNOK.fx	1:30:00 PM	8.78952	8.78894			N/A
5/20/2019	USDNOK.fx	3:30:00 PM	8.78034	8.77934			N/A
5/20/2019	USDPLN	9:30:00 AM	3.8581	3.8592			N/A
5/20/2019	USDPLN	11:30:00 AM	3.85	3.8515			N/A
5/20/2019	USDPLN	1:30:00 PM	3.8539	3.8553			N/A
5/20/2019	USDPLN	3:30:00 PM	3.8488	3.85			N/A
5/20/2019	USDPLN.fx	9:30:00 AM	3.8572	3.85993			N/A
5/20/2019	USDPLN.fx	11:30:00 AM	3.84926	3.85231			N/A
5/20/2019	USDPLN.fx	1:30:00 PM	3.85318	3.85611			N/A
5/20/2019	USDPLN.fx	3:30:00 PM	3.84802	3.8508			N/A
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5/20/2019	USDRUB	11:30:00 AM	64.309	64.697			N/A
5/20/2019	USDRUB	1:30:00 PM	64.343	64.73			N/A
5/20/2019	USDRUB	3:30:00 PM	64.34	64.729			N/A
5/20/2019	USDSEK	9:30:00 AM	9.6393	9.6412			N/A
5/20/2019	USDSEK	11:30:00 AM	9.6302	9.6337			N/A
5/20/2019	USDSEK	1:30:00 PM	9.6516	9.6556			N/A
5/20/2019	USDSEK	3:30:00 PM	9.6484	9.6519			N/A

5/20/2019	USDSEK.fx	9:30:00 AM	9.6425	9.63949			N/A
5/20/2019	USDSEK.fx	11:30:00 AM	9.63276	9.63189			N/A
5/20/2019	USDSEK.fx	1:30:00 PM	9.65431	9.65372			N/A
5/20/2019	USDSEK.fx	3:30:00 PM	9.65093	9.64995			N/A
5/20/2019	USDSGD	9:30:00 AM	1.3757	1.3759			N/A
5/20/2019	USDSGD	11:30:00 AM	1.3748	1.375			N/A
5/20/2019	USDSGD	1:30:00 PM	1.3762	1.3765			N/A
5/20/2019	USDSGD	3:30:00 PM	1.3759	1.3762			N/A
5/20/2019	USDSGD.fx	9:30:00 AM	1.37566	1.37612			N/A
5/20/2019	USDSGD.fx	11:30:00 AM	1.37471	1.37511			N/A
5/20/2019	USDSGD.fx	1:30:00 PM	1.37612	1.37652			N/A
5/20/2019	USDSGD.fx	3:30:00 PM	1.37585	1.37629			N/A
5/20/2019	USDZAR	9:30:00 AM	14.3925	14.4074			N/A
5/20/2019	USDZAR	11:30:00 AM	14.3622	14.376			N/A
5/20/2019	USDZAR	1:30:00 PM	14.3875	14.4026			N/A
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5/20/2019	USDZAR.fx	1:30:00 PM					N/A
5/20/2019	USDZAR.fx	3:30:00 PM					N/A
5/20/2019	XAUUSD	9:30:00 AM	1276.14	1276.53			N/A
5/20/2019	XAUUSD	11:30:00 AM	1275.5	1275.72			N/A
5/20/2019	XAUUSD	1:30:00 PM	1274.86	1275.06			N/A
5/20/2019	XAUUSD	3:30:00 PM	1276.7	1276.81			N/A
5/20/2019	ZARJPY	9:30:00 AM	7.63	7.65			N/A
5/20/2019	ZARJPY	11:30:00 AM	7.65	7.66			N/A
5/20/2019	ZARJPY	1:30:00 PM	7.62	7.64			N/A
5/20/2019	ZARJPY	3:30:00 PM	7.64	7.65			N/A
5/20/2019	ZARJPY.fx	9:30:00 AM	7.644	7.648			N/A
5/20/2019	ZARJPY.fx	11:30:00 AM	7.663	7.665			N/A
5/20/2019	ZARJPY.fx	1:30:00 PM	7.637	7.639			N/A
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5/21/2019	AUDCAD.fx	3:30:00 PM	0.92188	0.92169			N/A
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5/21/2019	AUDDKK	11:30:00 AM	4.6046	4.6093			N/A
5/21/2019	AUDDKK	1:30:00 PM	4.6053	4.6099			N/A
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5/21/2019	AUDJPY.fx	11:30:00 AM	75.708	75.711			N/A
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5/21/2019	AUDNOK	1:30:00 PM	6.0395	6.0438			N/A
5/21/2019	AUDNOK	3:30:00 PM	6.0355	6.0402			N/A
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5/21/2019	AUDNOK.fx	11:30:00 AM	6.044	6.0448			N/A
5/21/2019	AUDNOK.fx	1:30:00 PM	6.0411	6.042			N/A
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5/21/2019	AUDNZD.fx	9:30:00 AM	1.05609	1.0561			N/A
5/21/2019	AUDNZD.fx	11:30:00 AM	1.05651	1.05655			N/A
5/21/2019	AUDNZD.fx	1:30:00 PM	1.05761	1.0576			N/A
5/21/2019	AUDNZD.fx	3:30:00 PM	1.05646	1.05648			N/A
5/21/2019	AUDPLN	9:30:00 AM	2.6487	2.6516			N/A
5/21/2019	AUDPLN	11:30:00 AM	2.6538	2.6563			N/A
5/21/2019	AUDPLN	1:30:00 PM	2.6555	2.6589			N/A
5/21/2019	AUDPLN	3:30:00 PM	2.654	2.6571			N/A
5/21/2019	AUDSEK	9:30:00 AM	6.6565	6.6592			N/A
5/21/2019	AUDSEK	11:30:00 AM	6.6512	6.6539			N/A
5/21/2019	AUDSEK	1:30:00 PM	6.6474	6.6503			N/A
5/21/2019	AUDSEK	3:30:00 PM	6.6427	6.6454			N/A

5/21/2019	AUDSEK.fx	9:30:00 AM	6.6519	6.6637			N/A
5/21/2019	AUDSEK.fx	11:30:00 AM	6.6468	6.6582			N/A
5/21/2019	AUDSEK.fx	1:30:00 PM	6.643	6.6547			N/A
5/21/2019	AUDSEK.fx	3:30:00 PM	6.6381	6.6497			N/A
5/21/2019	AUDSGD	9:30:00 AM	0.9466	0.9466			N/A
5/21/2019	AUDSGD	11:30:00 AM	0.9479	0.9482			N/A
5/21/2019	AUDSGD	1:30:00 PM	0.9481	0.9485			N/A
5/21/2019	AUDSGD	3:30:00 PM	0.9477	0.948			N/A
5/21/2019	AUDSGD.fx	9:30:00 AM	0.94669	0.94672			N/A
5/21/2019	AUDSGD.fx	11:30:00 AM	0.94801	0.94813			N/A
5/21/2019	AUDSGD.fx	1:30:00 PM	0.94826	0.94837			N/A
5/21/2019	AUDSGD.fx	3:30:00 PM	0.94781	0.94787			N/A
5/21/2019	AUDUSD	9:30:00 AM	0.6873	0.68739			N/A
5/21/2019	AUDUSD	11:30:00 AM	0.68733	0.68747			N/A
5/21/2019	AUDUSD	1:30:00 PM	0.68794	0.68799			N/A
5/21/2019	AUDUSD	3:30:00 PM	0.68766	0.6877			N/A
5/21/2019	AUDUSD.fx	9:30:00 AM	0.68736	0.68733			N/A
5/21/2019	AUDUSD.fx	11:30:00 AM	0.68739	0.68741			N/A
5/21/2019	AUDUSD.fx	1:30:00 PM	0.68799	0.68793			N/A
5/21/2019	AUDUSD.fx	3:30:00 PM	0.68771	0.68764			N/A
5/21/2019	AUDZAR	9:30:00 AM	9.9	9.9131			N/A
5/21/2019	AUDZAR	11:30:00 AM	9.9339	9.9481			N/A
5/21/2019	AUDZAR	1:30:00 PM	9.907	9.9176			N/A
5/21/2019	AUDZAR	3:30:00 PM	9.9222	9.9274			N/A
5/21/2019	AUS200.i	9:30:00 AM	6486.74	6491.24			N/A
5/21/2019	AUS200.i	11:30:00 AM	6482.24	6483.99			N/A
5/21/2019	AUS200.i	1:30:00 PM	6488.94	6491.24			N/A
5/21/2019	AUS200.i	3:30:00 PM	6495.44	6497.24			N/A
5/21/2019	BCHUSD	9:30:00 AM	417.16	417.3			N/A
5/21/2019	BCHUSD	11:30:00 AM	423.48	424.29			N/A
5/21/2019	BCHUSD	1:30:00 PM	419.26	419.62			N/A
5/21/2019	BCHUSD	3:30:00 PM	419.85	420.82			N/A
5/21/2019	CADCHF	9:30:00 AM	0.75275	0.75337			N/A
5/21/2019	CADCHF	11:30:00 AM	0.75231	0.75294			N/A

5/21/2019	CADCHF	1:30:00 PM	0.75209	0.75279			N/A
5/21/2019	CADCHF	3:30:00 PM	0.75363	0.75427			N/A
5/21/2019	CADCHF.fx	9:30:00 AM	0.75309	0.75302			N/A
5/21/2019	CADCHF.fx	11:30:00 AM	0.75266	0.75258			N/A
5/21/2019	CADCHF.fx	1:30:00 PM	0.75242	0.75244			N/A
5/21/2019	CADCHF.fx	3:30:00 PM	0.75397	0.75392			N/A
5/21/2019	CADCZK	9:30:00 AM	17.204	17.217			N/A
5/21/2019	CADCZK	11:30:00 AM	17.216	17.233			N/A
5/21/2019	CADCZK	1:30:00 PM	17.208	17.225			N/A
5/21/2019	CADCZK	3:30:00 PM	17.22	17.235			N/A
5/21/2019	CADDKK	9:30:00 AM					N/A
5/21/2019	CADDKK	11:30:00 AM					N/A
5/21/2019	CADDKK	1:30:00 PM	4.99	4.993			N/A
5/21/2019	CADDKK	3:30:00 PM	4.994	4.998			N/A
5/21/2019	CADHKD	9:30:00 AM	5.8417	5.8456			N/A
5/21/2019	CADHKD	11:30:00 AM	5.8435	5.8474			N/A
5/21/2019	CADHKD	1:30:00 PM	5.8468	5.8505			N/A
5/21/2019	CADHKD	3:30:00 PM	5.8535	5.8575			N/A
5/21/2019	CADHUF	9:30:00 AM	217.98	218.13			N/A
5/21/2019	CADHUF	11:30:00 AM	218.63	218.79			N/A
5/21/2019	CADHUF	1:30:00 PM	218.45	218.62			N/A
5/21/2019	CADHUF	3:30:00 PM	218.24	218.39			N/A
5/21/2019	CADJPY	9:30:00 AM	82.007	82.06			N/A
5/21/2019	CADJPY	11:30:00 AM	81.987	82.058			N/A
5/21/2019	CADJPY	1:30:00 PM	82.1	82.167			N/A
5/21/2019	CADJPY	3:30:00 PM	82.382	82.44			N/A
5/21/2019	CADJPY.fx	9:30:00 AM	82.041	82.026			N/A
5/21/2019	CADJPY.fx	11:30:00 AM	82.021	82.024			N/A
5/21/2019	CADJPY.fx	1:30:00 PM	82.133	82.132			N/A
5/21/2019	CADJPY.fx	3:30:00 PM	82.416	82.406			N/A
5/21/2019	CADMXN	9:30:00 AM	14.1993	14.211			N/A
5/21/2019	CADMXN	11:30:00 AM	14.2271	14.24			N/A
5/21/2019	CADMXN	1:30:00 PM	14.2123	14.2211			N/A
5/21/2019	CADMXN	3:30:00 PM	14.2402	14.2465			N/A

5/21/2019	CADNOK	9:30:00 AM	6.5512	6.5561			N/A
5/21/2019	CADNOK	11:30:00 AM	6.5463	6.5497			N/A
5/21/2019	CADNOK	1:30:00 PM	6.5409	6.5447			N/A
5/21/2019	CADNOK	3:30:00 PM	6.5468	6.5508			N/A
5/21/2019	CADPLN	9:30:00 AM	2.8694	2.8713			N/A
5/21/2019	CADPLN	11:30:00 AM	2.8749	2.8767			N/A
5/21/2019	CADPLN	1:30:00 PM	2.8771	2.8789			N/A
5/21/2019	CADPLN	3:30:00 PM	2.8793	2.8812			N/A
5/21/2019	CADSEK	9:30:00 AM	7.2093	7.2121			N/A
5/21/2019	CADSEK	11:30:00 AM	7.2047	7.2075			N/A
5/21/2019	CADSEK	1:30:00 PM	7.199	7.2018			N/A
5/21/2019	CADSEK	3:30:00 PM	7.2052	7.2072			N/A
5/21/2019	CADSGD	9:30:00 AM	1.0247	1.025			N/A
5/21/2019	CADSGD	11:30:00 AM	1.0263	1.0266			N/A
5/21/2019	CADSGD	1:30:00 PM	1.0265	1.0267			N/A
5/21/2019	CADSGD	3:30:00 PM	1.0274	1.0278			N/A
5/21/2019	CADZAR	9:30:00 AM	10.7263	10.7413			N/A
5/21/2019	CADZAR	11:30:00 AM	10.7642	10.7801			N/A
5/21/2019	CADZAR	1:30:00 PM	10.7328	10.7445			N/A
5/21/2019	CADZAR	3:30:00 PM	10.7658	10.7708			N/A
5/21/2019	CHFCZK	9:30:00 AM	22.847	22.864			N/A
5/21/2019	CHFCZK	11:30:00 AM	22.881	22.896			N/A
5/21/2019	CHFCZK	1:30:00 PM	22.873	22.891			N/A
5/21/2019	CHFCZK	3:30:00 PM	22.844	22.858			N/A
5/21/2019	CHFDKK	9:30:00 AM	6.623	6.626			N/A
5/21/2019	CHFDKK	11:30:00 AM	6.63	6.634			N/A
5/21/2019	CHFDKK	1:30:00 PM	6.631	6.635			N/A
5/21/2019	CHFDKK	3:30:00 PM	6.624	6.627			N/A
5/21/2019	CHFDKK.fx	9:30:00 AM	6.6213	6.6273			N/A
5/21/2019	CHFDKK.fx	11:30:00 AM	6.6289	6.6345			N/A
5/21/2019	CHFDKK.fx	1:30:00 PM	6.6296	6.6359			N/A
5/21/2019	CHFDKK.fx	3:30:00 PM	6.6222	6.6275			N/A
5/21/2019	CHFHKD	9:30:00 AM	7.7592	7.763			N/A
5/21/2019	CHFHKD	11:30:00 AM	7.7649	7.7673			N/A

5/21/2019	CHFHKD	1:30:00 PM	7.7712	7.7751			N/A
5/21/2019	CHFHKD	3:30:00 PM	7.7648	7.7686			N/A
5/21/2019	CHFHUF	9:30:00 AM	289.39	289.78			N/A
5/21/2019	CHFHUF	11:30:00 AM	290.45	290.79			N/A
5/21/2019	CHFHUF	1:30:00 PM	290.25	290.63			N/A
5/21/2019	CHFHUF	3:30:00 PM	289.4	289.76			N/A
5/21/2019	CHFJPY	9:30:00 AM	108.902	108.97			N/A
5/21/2019	CHFJPY	11:30:00 AM	108.954	109.013			N/A
5/21/2019	CHFJPY	1:30:00 PM	109.12	109.193			N/A
5/21/2019	CHFJPY	3:30:00 PM	109.276	109.34			N/A
5/21/2019	CHFJPY.fx	9:30:00 AM	108.936	108.933			N/A
5/21/2019	CHFJPY.fx	11:30:00 AM	108.987	108.978			N/A
5/21/2019	CHFJPY.fx	1:30:00 PM	109.154	109.157			N/A
5/21/2019	CHFJPY.fx	3:30:00 PM	109.309	109.306			N/A
5/21/2019	CHFMXN	9:30:00 AM	18.8567	18.8729			N/A
5/21/2019	CHFMXN	11:30:00 AM	18.9048	18.9197			N/A
5/21/2019	CHFMXN	1:30:00 PM	18.8885	18.9016			N/A
5/21/2019	CHFMXN	3:30:00 PM	18.889	18.8973			N/A
5/21/2019	CHFNOK	9:30:00 AM	8.7011	8.708			N/A
5/21/2019	CHFNOK	11:30:00 AM	8.6979	8.7049			N/A
5/21/2019	CHFNOK	1:30:00 PM	8.6942	8.7004			N/A
5/21/2019	CHFNOK	3:30:00 PM	8.6848	8.6904			N/A
5/21/2019	CHFNOK.fx	9:30:00 AM	8.7044	8.70466			N/A
5/21/2019	CHFNOK.fx	11:30:00 AM	8.70137	8.70141			N/A
5/21/2019	CHFNOK.fx	1:30:00 PM	8.69774	8.69683			N/A
5/21/2019	CHFNOK.fx	3:30:00 PM	8.68849	8.68672			N/A
5/21/2019	CHFPLN	9:30:00 AM	3.8107	3.8139			N/A
5/21/2019	CHFPLN	11:30:00 AM	3.8215	3.823			N/A
5/21/2019	CHFPLN	1:30:00 PM	3.8237	3.8266			N/A
5/21/2019	CHFPLN	3:30:00 PM	3.8196	3.8223			N/A
5/21/2019	CHFPLN.fx	9:30:00 AM	3.80836	3.81613			N/A
5/21/2019	CHFPLN.fx	11:30:00 AM	3.81915	3.82521			N/A
5/21/2019	CHFPLN.fx	1:30:00 PM	3.82136	3.82885			N/A
5/21/2019	CHFPLN.fx	3:30:00 PM	3.81724	3.82445			N/A

5/21/2019	CHFSEK	9:30:00 AM	9.5739	9.5787			N/A
5/21/2019	CHFSEK	11:30:00 AM	9.5738	9.576			N/A
5/21/2019	CHFSEK	1:30:00 PM	9.5681	9.5715			N/A
5/21/2019	CHFSEK	3:30:00 PM	9.5573	9.5596			N/A
5/21/2019	CHFSGD	9:30:00 AM	1.3616	1.362			N/A
5/21/2019	CHFSGD	11:30:00 AM	1.3646	1.3649			N/A
5/21/2019	CHFSGD	1:30:00 PM	1.3649	1.3654			N/A
5/21/2019	CHFSGD	3:30:00 PM	1.3637	1.3641			N/A
5/21/2019	CHFSGD.fx	9:30:00 AM	1.36185	1.36183			N/A
5/21/2019	CHFSGD.fx	11:30:00 AM	1.36478	1.36474			N/A
5/21/2019	CHFSGD.fx	1:30:00 PM	1.36508	1.36517			N/A
5/21/2019	CHFSGD.fx	3:30:00 PM	1.36385	1.36387			N/A
5/21/2019	CHFZAR	9:30:00 AM	14.2482	14.259			N/A
5/21/2019	CHFZAR	11:30:00 AM	14.308	14.3197			N/A
5/21/2019	CHFZAR	1:30:00 PM	14.2695	14.2758			N/A
5/21/2019	CHFZAR	3:30:00 PM	14.2848	14.2835			N/A
5/21/2019	CZKJPY	9:30:00 AM					N/A
5/21/2019	CZKJPY	11:30:00 AM	4.761	4.764			N/A
5/21/2019	CZKJPY	1:30:00 PM					N/A
5/21/2019	CZKJPY	3:30:00 PM					N/A
5/21/2019	DAX30.i	9:30:00 AM	12093.21	12089.71			N/A
5/21/2019	DAX30.i	11:30:00 AM	12129.96	12129.21			N/A
5/21/2019	DAX30.i	1:30:00 PM	12162.21	12153.96			N/A
5/21/2019	DAX30.i	3:30:00 PM	12155.96	12151.46			N/A
5/21/2019	DJ30.i	9:30:00 AM					N/A
5/21/2019	DJ30.i	11:30:00 AM					N/A
5/21/2019	DJ30.i	1:30:00 PM					N/A
5/21/2019	DJ30.i	3:30:00 PM					N/A
5/21/2019	DKKJPY	9:30:00 AM	16.45	16.47			N/A
5/21/2019	DKKJPY	11:30:00 AM	16.44	16.46			N/A
5/21/2019	DKKJPY	1:30:00 PM					N/A
5/21/2019	DKKJPY	3:30:00 PM					N/A
5/21/2019	EURAUD	9:30:00 AM	1.62119	1.62141			N/A
5/21/2019	EURAUD	11:30:00 AM	1.62032	1.62074			N/A

5/21/2019	EURAUD	1:30:00 PM	1.62009	1.62044			N/A
5/21/2019	EURAUD	3:30:00 PM	1.62134	1.62161			N/A
5/21/2019	EURAUD.fx	9:30:00 AM	1.6214	1.62118			N/A
5/21/2019	EURAUD.fx	11:30:00 AM	1.62052	1.62053			N/A
5/21/2019	EURAUD.fx	1:30:00 PM	1.62031	1.62022			N/A
5/21/2019	EURAUD.fx	3:30:00 PM	1.62156	1.6214			N/A
5/21/2019	EURCAD	9:30:00 AM	1.49684	1.49749			N/A
5/21/2019	EURCAD	11:30:00 AM	1.49595	1.49675			N/A
5/21/2019	EURCAD	1:30:00 PM	1.496	1.49687			N/A
5/21/2019	EURCAD	3:30:00 PM	1.49493	1.49555			N/A
5/21/2019	EURCAD.fx	9:30:00 AM	1.49725	1.49707			N/A
5/21/2019	EURCAD.fx	11:30:00 AM	1.49637	1.49632			N/A
5/21/2019	EURCAD.fx	1:30:00 PM	1.49642	1.49645			N/A
5/21/2019	EURCAD.fx	3:30:00 PM	1.49536	1.49513			N/A
5/21/2019	EURCHF	9:30:00 AM	1.12743	1.12752			N/A
5/21/2019	EURCHF	11:30:00 AM	1.12615	1.12616			N/A
5/21/2019	EURCHF	1:30:00 PM	1.12591	1.12606			N/A
5/21/2019	EURCHF	3:30:00 PM	1.12734	1.12731			N/A
5/21/2019	EURCHF.fx	9:30:00 AM	1.12748	1.12746			N/A
5/21/2019	EURCHF.fx	11:30:00 AM	1.12622	1.12609			N/A
5/21/2019	EURCHF.fx	1:30:00 PM	1.12597	1.126			N/A
5/21/2019	EURCHF.fx	3:30:00 PM	1.12739	1.12725			N/A
5/21/2019	EURCZK	9:30:00 AM	25.746	25.785			N/A
5/21/2019	EURCZK	11:30:00 AM					N/A
5/21/2019	EURCZK	1:30:00 PM	25.741	25.78			N/A
5/21/2019	EURCZK	3:30:00 PM	25.738	25.777			N/A
5/21/2019	EURDKK	9:30:00 AM	7.467	7.4683			N/A
5/21/2019	EURDKK	11:30:00 AM					N/A
5/21/2019	EURDKK	1:30:00 PM	7.4668	7.4678			N/A
5/21/2019	EURDKK	3:30:00 PM	7.4678	7.4691			N/A
5/21/2019	EURGBP	9:30:00 AM	0.87702	0.87704			N/A
5/21/2019	EURGBP	11:30:00 AM	0.87825	0.87817			N/A
5/21/2019	EURGBP	1:30:00 PM	0.87805	0.87818			N/A
5/21/2019	EURGBP	3:30:00 PM	0.87556	0.87554			N/A

5/21/2019	EURGBP.fx	9:30:00 AM	0.87705	0.87699			N/A
5/21/2019	EURGBP.fx	11:30:00 AM	0.87828	0.87812			N/A
5/21/2019	EURGBP.fx	1:30:00 PM	0.87809	0.87813			N/A
5/21/2019	EURGBP.fx	3:30:00 PM	0.8756	0.87548			N/A
5/21/2019	EURHKD	9:30:00 AM	8.7477	8.7525			N/A
5/21/2019	EURHKD	11:30:00 AM	8.7442	8.7494			N/A
5/21/2019	EURHKD	1:30:00 PM	8.75	8.7554			N/A
5/21/2019	EURHKD	3:30:00 PM	8.7536	8.7583			N/A
5/21/2019	EURHKD.fx	9:30:00 AM	8.75048	8.74964			N/A
5/21/2019	EURHKD.fx	11:30:00 AM	8.74703	8.74651			N/A
5/21/2019	EURHKD.fx	1:30:00 PM	8.75284	8.75246			N/A
5/21/2019	EURHKD.fx	3:30:00 PM	8.75644	8.75548			N/A
5/21/2019	EURHUF	9:30:00 AM	326.17	326.82			N/A
5/21/2019	EURHUF	11:30:00 AM	327	327.71			N/A
5/21/2019	EURHUF	1:30:00 PM	326.77	327.49			N/A
5/21/2019	EURHUF	3:30:00 PM	326.19	326.93			N/A
5/21/2019	EURHUF.fx	9:30:00 AM	326.501	326.67			N/A
5/21/2019	EURHUF.fx	11:30:00 AM	327.281	327.428			N/A
5/21/2019	EURHUF.fx	1:30:00 PM	327.069	327.19			N/A
5/21/2019	EURHUF.fx	3:30:00 PM	326.481	326.648			N/A
5/21/2019	EURJPY	9:30:00 AM	122.823	122.821			N/A
5/21/2019	EURJPY	11:30:00 AM	122.731	122.74			N/A
5/21/2019	EURJPY	1:30:00 PM	122.902	122.911			N/A
5/21/2019	EURJPY	3:30:00 PM	123.224	123.217			N/A
5/21/2019	EURJPY.fx	9:30:00 AM	122.825	122.817			N/A
5/21/2019	EURJPY.fx	11:30:00 AM	122.733	122.736			N/A
5/21/2019	EURJPY.fx	1:30:00 PM	122.904	122.907			N/A
5/21/2019	EURJPY.fx	3:30:00 PM	123.227	123.214			N/A
5/21/2019	EURMXN	9:30:00 AM	21.2622	21.2809			N/A
5/21/2019	EURMXN	11:30:00 AM	21.2908	21.3103			N/A
5/21/2019	EURMXN	1:30:00 PM	21.2694	21.2845			N/A
5/21/2019	EURMXN	3:30:00 PM	21.2942	21.3068			N/A
5/21/2019	EURMXN.f	9:30:00 AM	21.2705	21.2727			N/A
5/21/2019	EURMXN.f	11:30:00 AM	21.2998	21.3008			N/A

5/21/2019	EURMXN.fx	1:30:00 PM	21.2784	21.2757			N/A
5/21/2019	EURMXN.fx	3:30:00 PM	21.3033	21.2973			N/A
5/21/2019	EURNOK	9:30:00 AM	9.8087	9.8197			N/A
5/21/2019	EURNOK	11:30:00 AM	9.7936	9.8042			N/A
5/21/2019	EURNOK	1:30:00 PM	9.7877	9.7982			N/A
5/21/2019	EURNOK	3:30:00 PM	9.7884	9.7989			N/A
5/21/2019	EURNOK.fx	9:30:00 AM	9.81421	9.81429			N/A
5/21/2019	EURNOK.fx	11:30:00 AM	9.79902	9.79877			N/A
5/21/2019	EURNOK.fx	1:30:00 PM	9.79327	9.7926			N/A
5/21/2019	EURNOK.fx	3:30:00 PM	9.79394	9.7933			N/A
5/21/2019	EURNZD	9:30:00 AM	1.71256	1.7132			N/A
5/21/2019	EURNZD	11:30:00 AM	1.71236	1.71319			N/A
5/21/2019	EURNZD	1:30:00 PM	1.7139	1.71473			N/A
5/21/2019	EURNZD	3:30:00 PM	1.71334	1.71403			N/A
5/21/2019	EURNZD.fx	9:30:00 AM	1.71296	1.71274			N/A
5/21/2019	EURNZD.fx	11:30:00 AM	1.71279	1.71275			N/A
5/21/2019	EURNZD.fx	1:30:00 PM	1.71434	1.7143			N/A
5/21/2019	EURNZD.fx	3:30:00 PM	1.71375	1.71359			N/A
5/21/2019	EURPLN	9:30:00 AM	4.2967	4.299			N/A
5/21/2019	EURPLN	11:30:00 AM	4.3034	4.3051			N/A
5/21/2019	EURPLN	1:30:00 PM	4.3054	4.3086			N/A
5/21/2019	EURPLN	3:30:00 PM	4.3059	4.3089			N/A
5/21/2019	EURPLN.fx	9:30:00 AM	4.29587	4.30042			N/A
5/21/2019	EURPLN.fx	11:30:00 AM	4.30291	4.30562			N/A
5/21/2019	EURPLN.fx	1:30:00 PM	4.3049	4.30912			N/A
5/21/2019	EURPLN.fx	3:30:00 PM	4.3053	4.30962			N/A
5/21/2019	EURRUB	9:30:00 AM					N/A
5/21/2019	EURRUB	11:30:00 AM	71.617	72.046			N/A
5/21/2019	EURRUB	1:30:00 PM	71.583	72.018			N/A
5/21/2019	EURRUB	3:30:00 PM	71.628	72.066			N/A
5/21/2019	EURSEK	9:30:00 AM	10.7962	10.8008			N/A
5/21/2019	EURSEK	11:30:00 AM	10.7834	10.7864			N/A
5/21/2019	EURSEK	1:30:00 PM	10.7752	10.776			N/A
5/21/2019	EURSEK	3:30:00 PM	10.7753	10.7784			N/A

5/21/2019	EURSEK.fx	9:30:00 AM	10.79776	10.79872			N/A
5/21/2019	EURSEK.fx	11:30:00 AM	10.78526	10.7844			N/A
5/21/2019	EURSEK.fx	1:30:00 PM	10.77716	10.77702			N/A
5/21/2019	EURSEK.fx	3:30:00 PM	10.77687	10.77664			N/A
5/21/2019	EURSGD	9:30:00 AM	1.5351	1.5358			N/A
5/21/2019	EURSGD	11:30:00 AM	1.5366	1.5374			N/A
5/21/2019	EURSGD	1:30:00 PM	1.5368	1.5376			N/A
5/21/2019	EURSGD	3:30:00 PM	1.5371	1.5379			N/A
5/21/2019	EURSGD.fx	9:30:00 AM	1.53546	1.53543			N/A
5/21/2019	EURSGD.fx	11:30:00 AM	1.53693	1.53695			N/A
5/21/2019	EURSGD.fx	1:30:00 PM	1.53708	1.53721			N/A
5/21/2019	EURSGD.fx	3:30:00 PM	1.53748	1.53751			N/A
5/21/2019	EURUSD	9:30:00 AM	1.11461	1.11466	10	300	N/A
5/21/2019	EURUSD	11:30:00 AM	1.11416	1.11423			N/A
5/21/2019	EURUSD	1:30:00 PM	1.11489	1.11501			N/A
5/21/2019	EURUSD	3:30:00 PM	1.11533	1.11535			N/A
5/21/2019	EURUSD.fx	9:30:00 AM	1.11481	1.11475			N/A
5/21/2019	EURUSD.fx	11:30:00 AM	1.11436	1.11432			N/A
5/21/2019	EURUSD.fx	1:30:00 PM	1.1151	1.11511			N/A
5/21/2019	EURUSD.fx	3:30:00 PM	1.11553	1.11544			N/A
5/21/2019	EURZAR	9:30:00 AM	16.0661	16.0805			N/A
5/21/2019	EURZAR	11:30:00 AM	16.1127	16.1298			N/A
5/21/2019	EURZAR	1:30:00 PM	16.068	16.0793			N/A
5/21/2019	EURZAR	3:30:00 PM	16.1032	16.1057			N/A
5/21/2019	EURZAR.fx	9:30:00 AM	16.06545	16.08036			N/A
5/21/2019	EURZAR.fx	11:30:00 AM	16.11226	16.13035			N/A
5/21/2019	EURZAR.fx	1:30:00 PM	16.06735	16.07971			N/A
5/21/2019	EURZAR.fx	3:30:00 PM	16.10238	16.10662			N/A
5/21/2019	GBPAUD	9:30:00 AM	1.84909	1.84956			N/A
5/21/2019	GBPAUD	11:30:00 AM	1.8457	1.84625			N/A
5/21/2019	GBPAUD	1:30:00 PM	1.84554	1.84633			N/A
5/21/2019	GBPAUD	3:30:00 PM	1.85259	1.85289			N/A
5/21/2019	GBPAUD.fx	9:30:00 AM	1.84949	1.84914			N/A
5/21/2019	GBPAUD.fx	11:30:00 AM	1.8461	1.84584			N/A

5/21/2019	GBPAUD.fx	1:30:00 PM	1.84594	1.84584			N/A
5/21/2019	GBPAUD.fx	3:30:00 PM	1.85297	1.85246			N/A
5/21/2019	GBPCAD	9:30:00 AM	1.70682	1.70733			N/A
5/21/2019	GBPCAD	11:30:00 AM	1.70362	1.70419			N/A
5/21/2019	GBPCAD	1:30:00 PM	1.70376	1.70451			N/A
5/21/2019	GBPCAD	3:30:00 PM	1.70744	1.70804			N/A
5/21/2019	GBPCAD.fx	9:30:00 AM	1.70721	1.7069			N/A
5/21/2019	GBPCAD.fx	11:30:00 AM	1.70404	1.7038			N/A
5/21/2019	GBPCAD.fx	1:30:00 PM	1.70416	1.70412			N/A
5/21/2019	GBPCAD.fx	3:30:00 PM	1.70782	1.70765			N/A
5/21/2019	GBPCHF	9:30:00 AM	1.28545	1.28574			N/A
5/21/2019	GBPCHF	11:30:00 AM	1.28233	1.28242			N/A
5/21/2019	GBPCHF	1:30:00 PM	1.28205	1.2825			N/A
5/21/2019	GBPCHF	3:30:00 PM	1.28749	1.28768			N/A
5/21/2019	GBPCHF.fx	9:30:00 AM	1.28564	1.28553			N/A
5/21/2019	GBPCHF.fx	11:30:00 AM	1.28251	1.28221			N/A
5/21/2019	GBPCHF.fx	1:30:00 PM	1.28224	1.2823			N/A
5/21/2019	GBPCHF.fx	3:30:00 PM	1.28769	1.28749			N/A
5/21/2019	GBPCZK	9:30:00 AM	29.368	29.387			N/A
5/21/2019	GBPCZK	11:30:00 AM	29.336	29.354			N/A
5/21/2019	GBPCZK	1:30:00 PM	29.324	29.347			N/A
5/21/2019	GBPCZK	3:30:00 PM	29.409	29.427			N/A
5/21/2019	GBPDKK	9:30:00 AM	8.512	8.522			N/A
5/21/2019	GBPDKK	11:30:00 AM	8.5	8.51			N/A
5/21/2019	GBPDKK	1:30:00 PM	8.5	8.511			N/A
5/21/2019	GBPDKK	3:30:00 PM	8.526	8.536			N/A
5/21/2019	GBPDKK.fx	9:30:00 AM	8.51	8.5223			N/A
5/21/2019	GBPDKK.fx	11:30:00 AM	8.4985	8.5099			N/A
5/21/2019	GBPDKK.fx	1:30:00 PM	8.4986	8.5114			N/A
5/21/2019	GBPDKK.fx	3:30:00 PM	8.5243	8.5361			N/A
5/21/2019	GBPHKD	9:30:00 AM	9.9727	9.9773			N/A
5/21/2019	GBPHKD	11:30:00 AM	9.9554	9.9601			N/A
5/21/2019	GBPHKD	1:30:00 PM	9.9629	9.9681			N/A
5/21/2019	GBPHKD	3:30:00 PM	9.996	10.0002			N/A

5/21/2019	GBPHUF	9:30:00 AM	371.99	372.45			N/A
5/21/2019	GBPHUF	11:30:00 AM	372.4	372.81			N/A
5/21/2019	GBPHUF	1:30:00 PM	372.15	372.6			N/A
5/21/2019	GBPHUF	3:30:00 PM	372.6	373			N/A
5/21/2019	GBPJPY	9:30:00 AM	140.037	140.059			N/A
5/21/2019	GBPJPY	11:30:00 AM	139.746	139.769			N/A
5/21/2019	GBPJPY	1:30:00 PM	139.946	139.991			N/A
5/21/2019	GBPJPY	3:30:00 PM	140.737	140.742			N/A
5/21/2019	GBPJPY.fx	9:30:00 AM	140.056	140.04			N/A
5/21/2019	GBPJPY.fx	11:30:00 AM	139.767	139.749			N/A
5/21/2019	GBPJPY.fx	1:30:00 PM	139.964	139.971			N/A
5/21/2019	GBPJPY.fx	3:30:00 PM	140.756	140.723			N/A
5/21/2019	GBPMXN	9:30:00 AM	24.2415	24.2545			N/A
5/21/2019	GBPMXN	11:30:00 AM	24.2421	24.2545			N/A
5/21/2019	GBPMXN	1:30:00 PM	24.2198	24.2297			N/A
5/21/2019	GBPMXN	3:30:00 PM	24.321	24.3226			N/A
5/21/2019	GBPNOK	9:30:00 AM	11.1853	11.1951			N/A
5/21/2019	GBPNOK	11:30:00 AM	11.1545	11.1618			N/A
5/21/2019	GBPNOK	1:30:00 PM	11.1476	11.1568			N/A
5/21/2019	GBPNOK	3:30:00 PM	11.1819	11.19			N/A
5/21/2019	GBPNOK.fx	9:30:00 AM	11.19	11.19022			N/A
5/21/2019	GBPNOK.fx	11:30:00 AM	11.15926	11.15652			N/A
5/21/2019	GBPNOK.fx	1:30:00 PM	11.15258	11.1518			N/A
5/21/2019	GBPNOK.fx	3:30:00 PM	11.18681	11.18506			N/A
5/21/2019	GBPNZD	9:30:00 AM	1.9529	1.95323			N/A
5/21/2019	GBPNZD	11:30:00 AM	1.95007	1.95064			N/A
5/21/2019	GBPNZD	1:30:00 PM	1.95189	1.95271			N/A
5/21/2019	GBPNZD	3:30:00 PM	1.95722	1.95744			N/A
5/21/2019	GBPNZD.fx	9:30:00 AM	1.95325	1.95284			N/A
5/21/2019	GBPNZD.fx	11:30:00 AM	1.95044	1.95025			N/A
5/21/2019	GBPNZD.fx	1:30:00 PM	1.95225	1.95234			N/A
5/21/2019	GBPNZD.fx	3:30:00 PM	1.95757	1.95706			N/A
5/21/2019	GBPPLN	9:30:00 AM	4.9001	4.9018			N/A
5/21/2019	GBPPLN	11:30:00 AM	4.9012	4.901			N/A

5/21/2019	GBPPLN	1:30:00 PM	4.904	4.9056			N/A
5/21/2019	GBPPLN	3:30:00 PM	4.9193	4.9202			N/A
5/21/2019	GBPPLN.fx	9:30:00 AM	4.89803	4.90388			N/A
5/21/2019	GBPPLN.fx	11:30:00 AM	4.89911	4.90304			N/A
5/21/2019	GBPPLN.fx	1:30:00 PM	4.90193	4.90761			N/A
5/21/2019	GBPPLN.fx	3:30:00 PM	4.91717	4.92237			N/A
5/21/2019	GBPSEK	9:30:00 AM	12.3084	12.3169			N/A
5/21/2019	GBPSEK	11:30:00 AM	12.2774	12.2838			N/A
5/21/2019	GBPSEK	1:30:00 PM	12.2691	12.2771			N/A
5/21/2019	GBPSEK	3:30:00 PM	12.3056	12.3115			N/A
5/21/2019	GBPSEK.fx	9:30:00 AM	12.30491	12.3203			N/A
5/21/2019	GBPSEK.fx	11:30:00 AM	12.27403	12.28703			N/A
5/21/2019	GBPSEK.fx	1:30:00 PM	12.26569	12.28051			N/A
5/21/2019	GBPSEK.fx	3:30:00 PM	12.30185	12.31516			N/A
5/21/2019	GBPSGD	9:30:00 AM	1.7505	1.751			N/A
5/21/2019	GBPSGD	11:30:00 AM	1.7499	1.7504			N/A
5/21/2019	GBPSGD	1:30:00 PM	1.7501	1.751			N/A
5/21/2019	GBPSGD	3:30:00 PM	1.7559	1.7564			N/A
5/21/2019	GBPSGD.fx	9:30:00 AM	1.74872	1.75283			N/A
5/21/2019	GBPSGD.fx	11:30:00 AM	1.74804	1.75222			N/A
5/21/2019	GBPSGD.fx	1:30:00 PM	1.74825	1.75276			N/A
5/21/2019	GBPSGD.fx	3:30:00 PM	1.75406	1.75816			N/A
5/21/2019	GBPUSD	9:30:00 AM	1.27117	1.27105			N/A
5/21/2019	GBPUSD	11:30:00 AM	1.26897	1.26886			N/A
5/21/2019	GBPUSD	1:30:00 PM	1.26985	1.26994			N/A
5/21/2019	GBPUSD	3:30:00 PM	1.27412	1.27402	10		N/A
5/21/2019	GBPUSD.fx	9:30:00 AM	1.27123	1.27099			N/A
5/21/2019	GBPUSD.fx	11:30:00 AM	1.26902	1.26879			N/A
5/21/2019	GBPUSD.fx	1:30:00 PM	1.26991	1.26988			N/A
5/21/2019	GBPUSD.fx	3:30:00 PM	1.27417	1.27395			N/A
5/21/2019	GBPZAR	9:30:00 AM	18.3172	18.3402			N/A
5/21/2019	GBPZAR	11:30:00 AM	18.3463	18.3714			N/A
5/21/2019	GBPZAR	1:30:00 PM	18.2951	18.3154			N/A
5/21/2019	GBPZAR	3:30:00 PM	18.388	18.3973			N/A

5/21/2019	GBPZAR.fx	9:30:00 AM	18.3246	18.3324			N/A
5/21/2019	GBPZAR.fx	11:30:00 AM	18.3533	18.3641			N/A
5/21/2019	GBPZAR.fx	1:30:00 PM	18.3021	18.3081			N/A
5/21/2019	GBPZAR.fx	3:30:00 PM	18.3951	18.3905			N/A
5/21/2019	GOLD	9:30:00 AM	1274.87	1275.15			N/A
5/21/2019	GOLD	11:30:00 AM	1275.12	1275.52			N/A
5/21/2019	GOLD	1:30:00 PM	1275.92	1276.32			N/A
5/21/2019	GOLD	3:30:00 PM	1271.44	1271.54			N/A
5/21/2019	HKDJPY	9:30:00 AM	14.04	14.05			N/A
5/21/2019	HKDJPY	11:30:00 AM					N/A
5/21/2019	HKDJPY	1:30:00 PM					N/A
5/21/2019	HKDJPY	3:30:00 PM	14.07	14.08			N/A
5/21/2019	HKDJPY.fx	9:30:00 AM	14.033	14.039			N/A
5/21/2019	HKDJPY.fx	11:30:00 AM	14.027	14.034			N/A
5/21/2019	HKDJPY.fx	1:30:00 PM	14.037	14.045			N/A
5/21/2019	HKDJPY.fx	3:30:00 PM	14.069	14.075			N/A
5/21/2019	HUFJPY	9:30:00 AM	0.3764	0.3767			N/A
5/21/2019	HUFJPY	11:30:00 AM	0.3753	0.3756			N/A
5/21/2019	HUFJPY	1:30:00 PM	0.3759	0.3762			N/A
5/21/2019	HUFJPY	3:30:00 PM	0.3777	0.378			N/A
5/21/2019	JP225.i	9:30:00 AM	21241.04	21256.04			N/A
5/21/2019	JP225.i	11:30:00 AM	21238.54	21251.04			N/A
5/21/2019	JP225.i	1:30:00 PM	21288.54	21308.54			N/A
5/21/2019	JP225.i	3:30:00 PM	21316.04	21323.54			N/A
5/21/2019	MXNJPY	9:30:00 AM					N/A
5/21/2019	MXNJPY	11:30:00 AM					N/A
5/21/2019	MXNJPY	1:30:00 PM	5.78	5.79			N/A
5/21/2019	MXNJPY	3:30:00 PM	5.78	5.79			N/A
5/21/2019	NASDAQ.i	9:30:00 AM					N/A
5/21/2019	NASDAQ.i	11:30:00 AM					N/A
5/21/2019	NASDAQ.i	1:30:00 PM					N/A
5/21/2019	NASDAQ.i	3:30:00 PM					N/A
5/21/2019	NOKJPY	9:30:00 AM	12.51	12.54			N/A
5/21/2019	NOKJPY	11:30:00 AM	12.51	12.55			N/A

5/21/2019	NOKJPY	1:30:00 PM	12.54	12.58			N/A
5/21/2019	NOKJPY	3:30:00 PM	12.57	12.6			N/A
5/21/2019	NOKJPY.fx	9:30:00 AM	12.512	12.518			N/A
5/21/2019	NOKJPY.fx	11:30:00 AM	12.522	12.528			N/A
5/21/2019	NOKJPY.fx	1:30:00 PM	12.548	12.553			N/A
5/21/2019	NOKJPY.fx	3:30:00 PM	12.58	12.583			N/A
5/21/2019	NZDCAD	9:30:00 AM	0.87371	0.87439			N/A
5/21/2019	NZDCAD	11:30:00 AM	0.87329	0.87398			N/A
5/21/2019	NZDCAD	1:30:00 PM	0.87256	0.87326			N/A
5/21/2019	NZDCAD	3:30:00 PM	0.87227	0.8728			N/A
5/21/2019	NZDCAD.fx	9:30:00 AM	0.87404	0.87405			N/A
5/21/2019	NZDCAD.fx	11:30:00 AM	0.87364	0.87363			N/A
5/21/2019	NZDCAD.fx	1:30:00 PM	0.87289	0.87292			N/A
5/21/2019	NZDCAD.fx	3:30:00 PM	0.87261	0.87246			N/A
5/21/2019	NZDCHF	9:30:00 AM	0.65793	0.65855			N/A
5/21/2019	NZDCHF	11:30:00 AM	0.65718	0.65784			N/A
5/21/2019	NZDCHF	1:30:00 PM	0.65645	0.65718			N/A
5/21/2019	NZDCHF	3:30:00 PM	0.65755	0.65816			N/A
5/21/2019	NZDCHF.fx	9:30:00 AM	0.65828	0.6582			N/A
5/21/2019	NZDCHF.fx	11:30:00 AM	0.65752	0.65749			N/A
5/21/2019	NZDCHF.fx	1:30:00 PM	0.65679	0.65682			N/A
5/21/2019	NZDCHF.fx	3:30:00 PM	0.65789	0.65781			N/A
5/21/2019	NZDCZK	9:30:00 AM	15.036	15.046			N/A
5/21/2019	NZDCZK	11:30:00 AM					N/A
5/21/2019	NZDCZK	1:30:00 PM	15.02	15.032			N/A
5/21/2019	NZDCZK	3:30:00 PM	15.024	15.036			N/A
5/21/2019	NZDDKK	9:30:00 AM					N/A
5/21/2019	NZDDKK	11:30:00 AM					N/A
5/21/2019	NZDDKK	1:30:00 PM					N/A
5/21/2019	NZDDKK	3:30:00 PM					N/A
5/21/2019	NZDHKD	9:30:00 AM	5.1057	5.1084			N/A
5/21/2019	NZDHKD	11:30:00 AM	5.104	5.1068			N/A
5/21/2019	NZDHKD	1:30:00 PM	5.1028	5.1054			N/A
5/21/2019	NZDHKD	3:30:00 PM	5.1066	5.1095			N/A

5/21/2019	NZDHUF	9:30:00 AM	190.42	190.7			N/A
5/21/2019	NZDHUF	11:30:00 AM	190.89	191.17			N/A
5/21/2019	NZDHUF	1:30:00 PM	190.58	190.86			N/A
5/21/2019	NZDHUF	3:30:00 PM	190.31	190.6			N/A
5/21/2019	NZDJPY	9:30:00 AM	71.675	71.735			N/A
5/21/2019	NZDJPY	11:30:00 AM	71.622	71.695			N/A
5/21/2019	NZDJPY	1:30:00 PM	71.659	71.73			N/A
5/21/2019	NZDJPY	3:30:00 PM	71.875	71.936			N/A
5/21/2019	NZDJPY.fx	9:30:00 AM	71.707	71.7			N/A
5/21/2019	NZDJPY.fx	11:30:00 AM	71.653	71.662			N/A
5/21/2019	NZDJPY.fx	1:30:00 PM	71.69	71.698			N/A
5/21/2019	NZDJPY.fx	3:30:00 PM	71.908	71.904			N/A
5/21/2019	NZDMXN	9:30:00 AM	12.4108	12.4169			N/A
5/21/2019	NZDMXN	11:30:00 AM	12.4286	12.4351			N/A
5/21/2019	NZDMXN	1:30:00 PM	12.4055	12.409			N/A
5/21/2019	NZDMXN	3:30:00 PM	12.424	12.4272			N/A
5/21/2019	NZDNOK	9:30:00 AM	5.7254	5.7293			N/A
5/21/2019	NZDNOK	11:30:00 AM	5.7177	5.7204			N/A
5/21/2019	NZDNOK	1:30:00 PM	5.7085	5.7114			N/A
5/21/2019	NZDNOK	3:30:00 PM	5.7106	5.7144			N/A
5/21/2019	NZDPLN	9:30:00 AM	2.5077	2.5091			N/A
5/21/2019	NZDPLN	11:30:00 AM	2.5109	2.5123			N/A
5/21/2019	NZDPLN	1:30:00 PM	2.5109	2.5122			N/A
5/21/2019	NZDPLN	3:30:00 PM	2.5119	2.5132			N/A
5/21/2019	NZDSEK	9:30:00 AM	6.2979	6.3045			N/A
5/21/2019	NZDSEK	11:30:00 AM	6.291	6.2972			N/A
5/21/2019	NZDSEK	1:30:00 PM	6.2803	6.2867			N/A
5/21/2019	NZDSEK	3:30:00 PM	6.2831	6.2892			N/A
5/21/2019	NZDSGD	9:30:00 AM	0.8961	0.8968			N/A
5/21/2019	NZDSGD	11:30:00 AM	0.8971	0.8977			N/A
5/21/2019	NZDSGD	1:30:00 PM	0.8963	0.897			N/A
5/21/2019	NZDSGD	3:30:00 PM	0.8969	0.8975			N/A
5/21/2019	NZDSGD.fx	9:30:00 AM	0.89615	0.89671			N/A
5/21/2019	NZDSGD.fx	11:30:00 AM	0.89708	0.89764			N/A

5/21/2019	NZDSGD.fx	1:30:00 PM	0.89634	0.89694			N/A
5/21/2019	NZDSGD.fx	3:30:00 PM	0.89693	0.89746			N/A
5/21/2019	NZDUSD	9:30:00 AM	0.65073	0.65083			N/A
5/21/2019	NZDUSD	11:30:00 AM	0.65049	0.65064			N/A
5/21/2019	NZDUSD	1:30:00 PM	0.65034	0.65048			N/A
5/21/2019	NZDUSD	3:30:00 PM	0.65084	0.65091			N/A
5/21/2019	NZDUSD.fx	9:30:00 AM	0.65079	0.65084			N/A
5/21/2019	NZDUSD.fx	11:30:00 AM	0.65056	0.65065			N/A
5/21/2019	NZDUSD.fx	1:30:00 PM	0.65041	0.65049			N/A
5/21/2019	NZDUSD.fx	3:30:00 PM	0.65092	0.65092			N/A
5/21/2019	NZDZAR	9:30:00 AM	9.3712	9.3868			N/A
5/21/2019	NZDZAR	11:30:00 AM	9.4004	9.4166			N/A
5/21/2019	NZDZAR	1:30:00 PM	9.3658	9.3774			N/A
5/21/2019	NZDZAR	3:30:00 PM	9.3898	9.3974			N/A
5/21/2019	SEKJPY	9:30:00 AM	11.37	11.38			N/A
5/21/2019	SEKJPY	11:30:00 AM	11.38	11.4			N/A
5/21/2019	SEKJPY	1:30:00 PM	11.41	11.41			N/A
5/21/2019	SEKJPY	3:30:00 PM	11.43	11.44			N/A
5/21/2019	SEKJPY.fx	9:30:00 AM	11.365	11.383			N/A
5/21/2019	SEKJPY.fx	11:30:00 AM	11.371	11.389			N/A
5/21/2019	SEKJPY.fx	1:30:00 PM	11.395	11.412			N/A
5/21/2019	SEKJPY.fx	3:30:00 PM	11.425	11.441			N/A
5/21/2019	SGDJPY	9:30:00 AM	79.99	79.99			N/A
5/21/2019	SGDJPY	11:30:00 AM	79.83	79.85			N/A
5/21/2019	SGDJPY	1:30:00 PM	79.95	79.96			N/A
5/21/2019	SGDJPY	3:30:00 PM	80.11	80.14			N/A
5/21/2019	SILVER	9:30:00 AM	14.23	14.61			N/A
5/21/2019	SILVER	11:30:00 AM	14.22	14.59			N/A
5/21/2019	SILVER	1:30:00 PM	14.24	14.62			N/A
5/21/2019	SILVER	3:30:00 PM	14.21	14.58			N/A
5/21/2019	SPX500.i	9:30:00 AM	2853.18	2853.54			N/A
5/21/2019	SPX500.i	11:30:00 AM	2852.59	2853.29			N/A
5/21/2019	SPX500.i	1:30:00 PM	2859.74	2860.04			N/A
5/21/2019	SPX500.i	3:30:00 PM	2857.74	2857.54			N/A

5/21/2019	UK100.i	9:30:00 AM	7331.67	7334.17			N/A
5/21/2019	UK100.i	11:30:00 AM	7356.42	7355.17			N/A
5/21/2019	UK100.i	1:30:00 PM	7365.67	7366.17			N/A
5/21/2019	UK100.i	3:30:00 PM	7348.67	7345.17			N/A
5/21/2019	USDCAD	9:30:00 AM	1.34302	1.34305			N/A
5/21/2019	USDCAD	11:30:00 AM	1.34277	1.34285			N/A
5/21/2019	USDCAD	1:30:00 PM	1.342	1.34203			N/A
5/21/2019	USDCAD	3:30:00 PM	1.34044	1.34045			N/A
5/21/2019	USDCAD.fx	9:30:00 AM	1.34305	1.34301			N/A
5/21/2019	USDCAD.fx	11:30:00 AM	1.3428	1.34281			N/A
5/21/2019	USDCAD.fx	1:30:00 PM	1.34203	1.34199			N/A
5/21/2019	USDCAD.fx	3:30:00 PM	1.34047	1.34041			N/A
5/21/2019	USDCHF	9:30:00 AM	1.01137	1.01139			N/A
5/21/2019	USDCHF	11:30:00 AM	1.01059	1.01062			N/A
5/21/2019	USDCHF	1:30:00 PM	1.00969	1.00983			N/A
5/21/2019	USDCHF	3:30:00 PM	1.01057	1.01064			N/A
5/21/2019	USDCHF.fx	9:30:00 AM	1.01142	1.01132			N/A
5/21/2019	USDCHF.fx	11:30:00 AM	1.01064	1.01055			N/A
5/21/2019	USDCHF.fx	1:30:00 PM	1.00974	1.00977			N/A
5/21/2019	USDCHF.fx	3:30:00 PM	1.01062	1.01058			N/A
5/21/2019	USDCZK	9:30:00 AM	23.12	23.14			N/A
5/21/2019	USDCZK	11:30:00 AM	23.134	23.156			N/A
5/21/2019	USDCZK	1:30:00 PM	23.107	23.129			N/A
5/21/2019	USDCZK	3:30:00 PM	23.098	23.119			N/A
5/21/2019	USDCZK.fx	9:30:00 AM	23.1276	23.134			N/A
5/21/2019	USDCZK.fx	11:30:00 AM	23.1421	23.148			N/A
5/21/2019	USDCZK.fx	1:30:00 PM	23.116	23.1222			N/A
5/21/2019	USDCZK.fx	3:30:00 PM	23.1066	23.11			N/A
5/21/2019	USDDKK	9:30:00 AM	6.6987	6.7024			N/A
5/21/2019	USDDKK	11:30:00 AM	6.7007	6.7047			N/A
5/21/2019	USDDKK	1:30:00 PM	6.6963	6.7003			N/A
5/21/2019	USDDKK	3:30:00 PM	6.6942	6.6978			N/A
5/21/2019	USDDKK.fx	9:30:00 AM	6.69917	6.70039			N/A
5/21/2019	USDDKK.fx	11:30:00 AM	6.70126	6.70259			N/A

5/21/2019	USDDKK.fx	1:30:00 PM	6.69677	6.69831			N/A
5/21/2019	USDDKK.fx	3:30:00 PM	6.6947	6.69572			N/A
5/21/2019	USDHKD	9:30:00 AM	7.8489	7.8491			N/A
5/21/2019	USDHKD	11:30:00 AM	7.849	7.8493			N/A
5/21/2019	USDHKD	1:30:00 PM					N/A
5/21/2019	USDHKD	3:30:00 PM					N/A
5/21/2019	USDHKD.fx	9:30:00 AM	7.84884	7.84938			N/A
5/21/2019	USDHKD.fx	11:30:00 AM	7.849	7.84948			N/A
5/21/2019	USDHKD.fx	1:30:00 PM					N/A
5/21/2019	USDHKD.fx	3:30:00 PM	7.84914	7.84972			N/A
5/21/2019	USDHUF	9:30:00 AM	292.73	293.19			N/A
5/21/2019	USDHUF	11:30:00 AM	293.54	293.98			N/A
5/21/2019	USDHUF	1:30:00 PM	293.13	293.59			N/A
5/21/2019	USDHUF	3:30:00 PM	292.52	292.95			N/A
5/21/2019	USDHUF.fx	9:30:00 AM	292.935	292.975			N/A
5/21/2019	USDHUF.fx	11:30:00 AM	293.753	293.775			N/A
5/21/2019	USDHUF.fx	1:30:00 PM	293.335	293.375			N/A
5/21/2019	USDHUF.fx	3:30:00 PM	292.715	292.745			N/A
5/21/2019	USDINR	9:30:00 AM	64.74	74.73			N/A
5/21/2019	USDINR	11:30:00 AM	64.72	74.71			N/A
5/21/2019	USDINR	1:30:00 PM					N/A
5/21/2019	USDINR	3:30:00 PM					N/A
5/21/2019	USDJPY	9:30:00 AM	110.174	110.17			N/A
5/21/2019	USDJPY	11:30:00 AM	110.132	110.146			N/A
5/21/2019	USDJPY	1:30:00 PM	110.213	110.228			N/A
5/21/2019	USDJPY	3:30:00 PM	110.466	110.465			N/A
5/21/2019	USDJPY.fx	9:30:00 AM	110.18	110.163			N/A
5/21/2019	USDJPY.fx	11:30:00 AM	110.137	110.138			N/A
5/21/2019	USDJPY.fx	1:30:00 PM	110.219	110.221			N/A
5/21/2019	USDJPY.fx	3:30:00 PM	110.472	110.458			N/A
5/21/2019	USDMXN	9:30:00 AM	19.077	19.085			N/A
5/21/2019	USDMXN	11:30:00 AM	19.111	19.119			N/A
5/21/2019	USDMXN	1:30:00 PM	19.078	19.083			N/A
5/21/2019	USDMXN	3:30:00 PM	19.095	19.094			N/A

5/21/2019	USDMXN.f	9:30:00 AM	19.0796	19.0826			N/A
5/21/2019	USDMXN.f	11:30:00 AM	19.1146	19.1146			N/A
5/21/2019	USDMXN.f	1:30:00 PM	19.0824	19.0791			N/A
5/21/2019	USDMXN.f	3:30:00 PM	19.0983	19.0902			N/A
5/21/2019	USDNOK	9:30:00 AM	8.7997	8.808			N/A
5/21/2019	USDNOK	11:30:00 AM	8.7903	8.7975			N/A
5/21/2019	USDNOK	1:30:00 PM	8.779	8.7857			N/A
5/21/2019	USDNOK	3:30:00 PM	8.7764	8.7834			N/A
5/21/2019	USDNOK.fx	9:30:00 AM	8.80363	8.80355			N/A
5/21/2019	USDNOK.fx	11:30:00 AM	8.79419	8.79292			N/A
5/21/2019	USDNOK.fx	1:30:00 PM	8.78306	8.78124			N/A
5/21/2019	USDNOK.fx	3:30:00 PM	8.78073	8.7788			N/A
5/21/2019	USDPLN	9:30:00 AM	3.8548	3.8564			N/A
5/21/2019	USDPLN	11:30:00 AM	3.8624	3.8627			N/A
5/21/2019	USDPLN	1:30:00 PM	3.8617	3.8631			N/A
5/21/2019	USDPLN	3:30:00 PM	3.8609	3.862			N/A
5/21/2019	USDPLN.fx	9:30:00 AM	3.85405	3.85704			N/A
5/21/2019	USDPLN.fx	11:30:00 AM	3.86169	3.86346			N/A
5/21/2019	USDPLN.fx	1:30:00 PM	3.86098	3.86383			N/A
5/21/2019	USDPLN.fx	3:30:00 PM	3.86009	3.86281			N/A
5/21/2019	USDRUB	9:30:00 AM					N/A
5/21/2019	USDRUB	11:30:00 AM	64.386	64.761			N/A
5/21/2019	USDRUB	1:30:00 PM	64.312	64.695			N/A
5/21/2019	USDRUB	3:30:00 PM	64.331	64.711			N/A
5/21/2019	USDSEK	9:30:00 AM	9.6839	9.688			N/A
5/21/2019	USDSEK	11:30:00 AM	9.6761	9.6791			N/A
5/21/2019	USDSEK	1:30:00 PM	9.6627	9.6661			N/A
5/21/2019	USDSEK	3:30:00 PM	9.6595	9.6617			N/A
5/21/2019	USDSEK.fx	9:30:00 AM	9.68661	9.68607			N/A
5/21/2019	USDSEK.fx	11:30:00 AM	9.679	9.67694			N/A
5/21/2019	USDSEK.fx	1:30:00 PM	9.66554	9.66387			N/A
5/21/2019	USDSEK.fx	3:30:00 PM	9.66207	9.65977			N/A
5/21/2019	USDSGD	9:30:00 AM	1.3772	1.3775			N/A
5/21/2019	USDSGD	11:30:00 AM	1.379	1.3794			N/A

5/21/2019	USDSGD	1:30:00 PM	1.3783	1.3787			N/A
5/21/2019	USDSGD	3:30:00 PM	1.3782	1.3785			N/A
5/21/2019	USDSGD.fx	9:30:00 AM	1.37711	1.37755			N/A
5/21/2019	USDSGD.fx	11:30:00 AM	1.37895	1.37944			N/A
5/21/2019	USDSGD.fx	1:30:00 PM	1.37824	1.3787			N/A
5/21/2019	USDSGD.fx	3:30:00 PM	1.37811	1.37854			N/A
5/21/2019	USDZAR	9:30:00 AM	14.4114	14.4247			N/A
5/21/2019	USDZAR	11:30:00 AM	14.4589	14.4749			N/A
5/21/2019	USDZAR	1:30:00 PM	14.4095	14.4189			N/A
5/21/2019	USDZAR	3:30:00 PM	14.4375	14.4377			N/A
5/21/2019	USDZAR.fx	9:30:00 AM					N/A
5/21/2019	USDZAR.fx	11:30:00 AM					N/A
5/21/2019	USDZAR.fx	1:30:00 PM					N/A
5/21/2019	USDZAR.fx	3:30:00 PM					N/A
5/21/2019	XAUUSD	9:30:00 AM	1274.89	1275.15			N/A
5/21/2019	XAUUSD	11:30:00 AM	1275.13	1275.52			N/A
5/21/2019	XAUUSD	1:30:00 PM	1275.92	1276.3			N/A
5/21/2019	XAUUSD	3:30:00 PM	1271.44	1271.54			N/A
5/21/2019	ZARJPY	9:30:00 AM					N/A
5/21/2019	ZARJPY	11:30:00 AM	7.6	7.63			N/A
5/21/2019	ZARJPY	1:30:00 PM	7.63	7.65			N/A
5/21/2019	ZARJPY	3:30:00 PM	7.64	7.65			N/A
5/21/2019	ZARJPY.fx	9:30:00 AM	7.64	7.642			N/A
5/21/2019	ZARJPY.fx	11:30:00 AM	7.611	7.614			N/A
5/21/2019	ZARJPY.fx	1:30:00 PM	7.646	7.646			N/A
5/21/2019	ZARJPY.fx	3:30:00 PM	7.653	7.648			N/A
5/22/2019	#AA	9:30:00 AM					N/A
5/22/2019	#AA	11:30:00 AM					N/A
5/22/2019	#AA	1:30:00 PM					N/A
5/22/2019	#AA	3:30:00 PM					N/A
5/22/2019	#AABA	9:30:00 AM					N/A
5/22/2019	#AABA	11:30:00 AM					N/A
5/22/2019	#AABA	1:30:00 PM					N/A
5/22/2019	#AABA	3:30:00 PM					N/A

5/22/2019	#AAL	9:30:00 AM					N/A
5/22/2019	#AAL	11:30:00 AM					N/A
5/22/2019	#AAL	1:30:00 PM					N/A
5/22/2019	#AAL	3:30:00 PM					N/A
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5/22/2019	#AAPL	11:30:00 AM					N/A
5/22/2019	#AAPL	1:30:00 PM					N/A
5/22/2019	#AAPL	3:30:00 PM					N/A
5/22/2019	#ADBE	9:30:00 AM					N/A
5/22/2019	#ADBE	11:30:00 AM					N/A
5/22/2019	#ADBE	1:30:00 PM					N/A
5/22/2019	#ADBE	3:30:00 PM					N/A
5/22/2019	#AIG	9:30:00 AM					N/A
5/22/2019	#AIG	11:30:00 AM					N/A
5/22/2019	#AIG	1:30:00 PM					N/A
5/22/2019	#AIG	3:30:00 PM					N/A
5/22/2019	#AMD	9:30:00 AM					N/A
5/22/2019	#AMD	11:30:00 AM					N/A
5/22/2019	#AMD	1:30:00 PM					N/A
5/22/2019	#AMD	3:30:00 PM					N/A
5/22/2019	#AMZN	9:30:00 AM					N/A
5/22/2019	#AMZN	11:30:00 AM					N/A
5/22/2019	#AMZN	1:30:00 PM					N/A
5/22/2019	#AMZN	3:30:00 PM					N/A
5/22/2019	#AXP	9:30:00 AM					N/A
5/22/2019	#AXP	11:30:00 AM					N/A
5/22/2019	#AXP	1:30:00 PM					N/A
5/22/2019	#AXP	3:30:00 PM					N/A
5/22/2019	#BA	9:30:00 AM					N/A
5/22/2019	#BA	11:30:00 AM					N/A
5/22/2019	#BA	1:30:00 PM					N/A
5/22/2019	#BA	3:30:00 PM					N/A
5/22/2019	#BABA	9:30:00 AM					N/A
5/22/2019	#BABA	11:30:00 AM					N/A

5/22/2019	#BABA	1:30:00 PM					N/A
5/22/2019	#BABA	3:30:00 PM					N/A
5/22/2019	#BAC	9:30:00 AM					N/A
5/22/2019	#BAC	11:30:00 AM					N/A
5/22/2019	#BAC	1:30:00 PM					N/A
5/22/2019	#BAC	3:30:00 PM					N/A
5/22/2019	#BARC	9:30:00 AM					N/A
5/22/2019	#BARC	11:30:00 AM					N/A
5/22/2019	#BARC	1:30:00 PM					N/A
5/22/2019	#BARC	3:30:00 PM					N/A
5/22/2019	#BHP	9:30:00 AM					N/A
5/22/2019	#BHP	11:30:00 AM					N/A
5/22/2019	#BHP	1:30:00 PM					N/A
5/22/2019	#BHP	3:30:00 PM					N/A
5/22/2019	#BIDU	9:30:00 AM					N/A
5/22/2019	#BIDU	11:30:00 AM					N/A
5/22/2019	#BIDU	1:30:00 PM					N/A
5/22/2019	#BIDU	3:30:00 PM					N/A
5/22/2019	#Bitcoin	9:30:00 AM	7923.7	7956.7			N/A
5/22/2019	#Bitcoin	11:30:00 AM	7927.9	7950.25			N/A
5/22/2019	#Bitcoin	1:30:00 PM	7912.2	7936.2			N/A
5/22/2019	#Bitcoin	3:30:00 PM	7824.95	7845.75			N/A
5/22/2019	#BK	9:30:00 AM					N/A
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5/22/2019	#BK	1:30:00 PM					N/A
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5/22/2019	#VOD	1:30:00 PM					N/A
5/22/2019	#VOD	3:30:00 PM					N/A

5/22/2019	#VZ	9:30:00 AM					N/A
5/22/2019	#VZ	11:30:00 AM					N/A
5/22/2019	#VZ	1:30:00 PM					N/A
5/22/2019	#VZ	3:30:00 PM					N/A
5/22/2019	#WDC	9:30:00 AM					N/A
5/22/2019	#WDC	11:30:00 AM					N/A
5/22/2019	#WDC	1:30:00 PM					N/A
5/22/2019	#WDC	3:30:00 PM					N/A
5/22/2019	#WFC	9:30:00 AM					N/A
5/22/2019	#WFC	11:30:00 AM					N/A
5/22/2019	#WFC	1:30:00 PM					N/A
5/22/2019	#WFC	3:30:00 PM					N/A
5/22/2019	#WMT	9:30:00 AM					N/A
5/22/2019	#WMT	11:30:00 AM					N/A
5/22/2019	#WMT	1:30:00 PM					N/A
5/22/2019	#WMT	3:30:00 PM					N/A
5/22/2019	#XOM	9:30:00 AM					N/A
5/22/2019	#XOM	11:30:00 AM					N/A
5/22/2019	#XOM	1:30:00 PM					N/A
5/22/2019	#XOM	3:30:00 PM					N/A
5/22/2019	#YHOO	9:30:00 AM					N/A
5/22/2019	#YHOO	11:30:00 AM					N/A
5/22/2019	#YHOO	1:30:00 PM					N/A
5/22/2019	#YHOO	3:30:00 PM					N/A
5/22/2019	#ZNGA	9:30:00 AM					N/A
5/22/2019	#ZNGA	11:30:00 AM					N/A
5/22/2019	#ZNGA	1:30:00 PM					N/A
5/22/2019	#ZNGA	3:30:00 PM					N/A
5/22/2019	AUDCAD	9:30:00 AM	0.92186	0.92252			N/A
5/22/2019	AUDCAD	11:30:00 AM	0.92262	0.92308			N/A
5/22/2019	AUDCAD	1:30:00 PM	0.92228	0.92296			N/A
5/22/2019	AUDCAD	3:30:00 PM	0.92117	0.92084			N/A
5/22/2019	AUDCAD.fx	9:30:00 AM	0.92219	0.92217			N/A
5/22/2019	AUDCAD.fx	11:30:00 AM	0.92296	0.92274			N/A

5/22/2019	AUDCAD.fx	1:30:00 PM	0.92261	0.9226			N/A
5/22/2019	AUDCAD.fx	3:30:00 PM	0.9215	0.92054			N/A
5/22/2019	AUDCHF	9:30:00 AM	0.69534	0.69599			N/A
5/22/2019	AUDCHF	11:30:00 AM	0.69585	0.69653			N/A
5/22/2019	AUDCHF	1:30:00 PM	0.69581	0.69648			N/A
5/22/2019	AUDCHF	3:30:00 PM	0.69336	0.69385			N/A
5/22/2019	AUDCHF.fx	9:30:00 AM	0.69568	0.69563			N/A
5/22/2019	AUDCHF.fx	11:30:00 AM	0.6962	0.69619			N/A
5/22/2019	AUDCHF.fx	1:30:00 PM	0.69616	0.69612			N/A
5/22/2019	AUDCHF.fx	3:30:00 PM	0.69371	0.69349			N/A
5/22/2019	AUDCZK	9:30:00 AM	15.859	15.876			N/A
5/22/2019	AUDCZK	11:30:00 AM	15.892	15.906			N/A
5/22/2019	AUDCZK	1:30:00 PM	15.885	15.901			N/A
5/22/2019	AUDCZK	3:30:00 PM	15.885	15.897			N/A
5/22/2019	AUDDKK	9:30:00 AM	4.6018	4.6065			N/A
5/22/2019	AUDDKK	11:30:00 AM	4.6077	4.6116			N/A
5/22/2019	AUDDKK	1:30:00 PM	4.6053	4.6101			N/A
5/22/2019	AUDDKK	3:30:00 PM	4.6015	4.6051			N/A
5/22/2019	AUDHKD	9:30:00 AM	5.3936	5.3975			N/A
5/22/2019	AUDHKD	11:30:00 AM	5.4038	5.4077			N/A
5/22/2019	AUDHKD	1:30:00 PM	5.4077	5.4112			N/A
5/22/2019	AUDHKD	3:30:00 PM	5.4036	5.4045			N/A
5/22/2019	AUDHUF	9:30:00 AM	200.98	201.21			N/A
5/22/2019	AUDHUF	11:30:00 AM	201.39	201.48			N/A
5/22/2019	AUDHUF	1:30:00 PM	201.22	201.45			N/A
5/22/2019	AUDHUF	3:30:00 PM	201.11	201.24			N/A
5/22/2019	AUDJPY	9:30:00 AM	75.939	76			N/A
5/22/2019	AUDJPY	11:30:00 AM	76.044	76.096			N/A
5/22/2019	AUDJPY	1:30:00 PM	76.115	76.178			N/A
5/22/2019	AUDJPY	3:30:00 PM	75.971	75.997			N/A
5/22/2019	AUDJPY.fx	9:30:00 AM	75.973	75.965			N/A
5/22/2019	AUDJPY.fx	11:30:00 AM	76.078	76.061			N/A
5/22/2019	AUDJPY.fx	1:30:00 PM	76.15	76.142			N/A
5/22/2019	AUDJPY.fx	3:30:00 PM	76.005	75.962			N/A

5/22/2019	AUDMXN	9:30:00 AM	13.0667	13.0753			N/A
5/22/2019	AUDMXN	11:30:00 AM	13.0909	13.0985			N/A
5/22/2019	AUDMXN	1:30:00 PM	13.0773	13.0866			N/A
5/22/2019	AUDMXN	3:30:00 PM	13.0812	13.0893			N/A
5/22/2019	AUDNOK	9:30:00 AM	6.0281	6.0328			N/A
5/22/2019	AUDNOK	11:30:00 AM	6.0226	6.0266			N/A
5/22/2019	AUDNOK	1:30:00 PM	6.0181	6.0233			N/A
5/22/2019	AUDNOK	3:30:00 PM	6.0157	6.0196			N/A
5/22/2019	AUDNOK.fx	9:30:00 AM	6.0297	6.0311			N/A
5/22/2019	AUDNOK.fx	11:30:00 AM	6.0241	6.0249			N/A
5/22/2019	AUDNOK.fx	1:30:00 PM	6.0197	6.0216			N/A
5/22/2019	AUDNOK.fx	3:30:00 PM	6.0176	6.0178			N/A
5/22/2019	AUDNZD	9:30:00 AM	1.05795	1.05887			N/A
5/22/2019	AUDNZD	11:30:00 AM	1.05836	1.0591			N/A
5/22/2019	AUDNZD	1:30:00 PM	1.05879	1.05973			N/A
5/22/2019	AUDNZD	3:30:00 PM	1.0583	1.05891			N/A
5/22/2019	AUDNZD.fx	9:30:00 AM	1.05839	1.05842			N/A
5/22/2019	AUDNZD.fx	11:30:00 AM	1.05879	1.05864			N/A
5/22/2019	AUDNZD.fx	1:30:00 PM	1.05923	1.05927			N/A
5/22/2019	AUDNZD.fx	3:30:00 PM	1.05874	1.05846			N/A
5/22/2019	AUDPLN	9:30:00 AM	2.6544	2.6575			N/A
5/22/2019	AUDPLN	11:30:00 AM	2.6582	2.661			N/A
5/22/2019	AUDPLN	1:30:00 PM	2.656	2.6594			N/A
5/22/2019	AUDPLN	3:30:00 PM	2.6524	2.6548			N/A
5/22/2019	AUDSEK	9:30:00 AM	6.6375	6.6397			N/A
5/22/2019	AUDSEK	11:30:00 AM	6.6402	6.6421			N/A
5/22/2019	AUDSEK	1:30:00 PM	6.6354	6.6387			N/A
5/22/2019	AUDSEK	3:30:00 PM	6.634	6.6357			N/A
5/22/2019	AUDSEK.fx	9:30:00 AM	6.633	6.6437			N/A
5/22/2019	AUDSEK.fx	11:30:00 AM	6.6357	6.6463			N/A
5/22/2019	AUDSEK.fx	1:30:00 PM	6.6308	6.6433			N/A
5/22/2019	AUDSEK.fx	3:30:00 PM	6.6301	6.6402			N/A
5/22/2019	AUDSGD	9:30:00 AM	0.9491	0.9493			N/A
5/22/2019	AUDSGD	11:30:00 AM	0.9497	0.9498			N/A

5/22/2019	AUDSGD	1:30:00 PM	0.9497	0.95			N/A
5/22/2019	AUDSGD	3:30:00 PM	0.9494	0.9495			N/A
5/22/2019	AUDSGD.fx	9:30:00 AM	0.94915	0.94918			N/A
5/22/2019	AUDSGD.fx	11:30:00 AM	0.94983	0.9497			N/A
5/22/2019	AUDSGD.fx	1:30:00 PM	0.94981	0.94988			N/A
5/22/2019	AUDSGD.fx	3:30:00 PM	0.94953	0.94933			N/A
5/22/2019	AUDUSD	9:30:00 AM	0.68756	0.68765			N/A
5/22/2019	AUDUSD	11:30:00 AM	0.68886	0.68886			N/A
5/22/2019	AUDUSD	1:30:00 PM	0.68926	0.68933			N/A
5/22/2019	AUDUSD	3:30:00 PM	0.68887	0.68863			N/A
5/22/2019	AUDUSD.fx	9:30:00 AM	0.68761	0.68759			N/A
5/22/2019	AUDUSD.fx	11:30:00 AM	0.68891	0.68881			N/A
5/22/2019	AUDUSD.fx	1:30:00 PM	0.68931	0.68927			N/A
5/22/2019	AUDUSD.fx	3:30:00 PM	0.68892	0.68857			N/A
5/22/2019	AUDZAR	9:30:00 AM	9.9048	9.9179			N/A
5/22/2019	AUDZAR	11:30:00 AM	9.8839	9.8929			N/A
5/22/2019	AUDZAR	1:30:00 PM	9.8776	9.888			N/A
5/22/2019	AUDZAR	3:30:00 PM	9.8897	9.9018			N/A
5/22/2019	AUS200.i	9:30:00 AM					N/A
5/22/2019	AUS200.i	11:30:00 AM	6498.95	6502.45			N/A
5/22/2019	AUS200.i	1:30:00 PM	6511.95	6515.45			N/A
5/22/2019	AUS200.i	3:30:00 PM	6494.35	6495.85			N/A
5/22/2019	BCHUSD	9:30:00 AM	425.37	427.36			N/A
5/22/2019	BCHUSD	11:30:00 AM	423.37	424.62			N/A
5/22/2019	BCHUSD	1:30:00 PM	420.53	421.07			N/A
5/22/2019	BCHUSD	3:30:00 PM	417.1	418.8			N/A
5/22/2019	CADCHF	9:30:00 AM	0.75399	0.75472			N/A
5/22/2019	CADCHF	11:30:00 AM	0.75414	0.75467			N/A
5/22/2019	CADCHF	1:30:00 PM	0.75414	0.75489			N/A
5/22/2019	CADCHF	3:30:00 PM	0.75332	0.75268			N/A
5/22/2019	CADCHF.fx	9:30:00 AM	0.75434	0.75437			N/A
5/22/2019	CADCHF.fx	11:30:00 AM	0.75448	0.75433			N/A
5/22/2019	CADCHF.fx	1:30:00 PM	0.75449	0.75453			N/A
5/22/2019	CADCHF.fx	3:30:00 PM	0.75366	0.75232			N/A

5/22/2019	CADCZK	9:30:00 AM	17.201	17.218			N/A
5/22/2019	CADCZK	11:30:00 AM	17.224	17.239			N/A
5/22/2019	CADCZK	1:30:00 PM	17.22	17.237			N/A
5/22/2019	CADCZK	3:30:00 PM	17.264	17.251			N/A
5/22/2019	CADDDKK	9:30:00 AM					N/A
5/22/2019	CADDDKK	11:30:00 AM	4.994	4.997			N/A
5/22/2019	CADDDKK	1:30:00 PM					N/A
5/22/2019	CADDDKK	3:30:00 PM	4.998	4.994			N/A
5/22/2019	CADHKD	9:30:00 AM	5.8501	5.854			N/A
5/22/2019	CADHKD	11:30:00 AM	5.8571	5.861			N/A
5/22/2019	CADHKD	1:30:00 PM	5.8622	5.866			N/A
5/22/2019	CADHKD	3:30:00 PM	5.8731	5.8627			N/A
5/22/2019	CADHUF	9:30:00 AM	218.01	218.18			N/A
5/22/2019	CADHUF	11:30:00 AM	218.33	218.3			N/A
5/22/2019	CADHUF	1:30:00 PM	218.16	218.33			N/A
5/22/2019	CADHUF	3:30:00 PM	218.54	218.28			N/A
5/22/2019	CADJPY	9:30:00 AM	82.344	82.409			N/A
5/22/2019	CADJPY	11:30:00 AM	82.395	82.467			N/A
5/22/2019	CADJPY	1:30:00 PM	82.497	82.568			N/A
5/22/2019	CADJPY	3:30:00 PM	82.532	82.429			N/A
5/22/2019	CADJPY.fx	9:30:00 AM	82.377	82.375			N/A
5/22/2019	CADJPY.fx	11:30:00 AM	82.427	82.433			N/A
5/22/2019	CADJPY.fx	1:30:00 PM	82.53	82.532			N/A
5/22/2019	CADJPY.fx	3:30:00 PM	82.568	82.404			N/A
5/22/2019	CADMXN	9:30:00 AM	14.17	14.1813			N/A
5/22/2019	CADMXN	11:30:00 AM	14.186	14.1959			N/A
5/22/2019	CADMXN	1:30:00 PM	14.1752	14.1877			N/A
5/22/2019	CADMXN	3:30:00 PM	14.2162	14.2021			N/A
5/22/2019	CADNOK	9:30:00 AM	6.5356	6.5401			N/A
5/22/2019	CADNOK	11:30:00 AM	6.525	6.5267			N/A
5/22/2019	CADNOK	1:30:00 PM	6.5222	6.5265			N/A
5/22/2019	CADNOK	3:30:00 PM	6.5332	6.5245			N/A
5/22/2019	CADPLN	9:30:00 AM	2.8788	2.8807			N/A
5/22/2019	CADPLN	11:30:00 AM	2.8803	2.8814			N/A

5/22/2019	CADPLN	1:30:00 PM	2.8794	2.8812			N/A
5/22/2019	CADPLN	3:30:00 PM	2.8809	2.8771			N/A
5/22/2019	CADSEK	9:30:00 AM	7.1959	7.1981			N/A
5/22/2019	CADSEK	11:30:00 AM	7.1935	7.1963			N/A
5/22/2019	CADSEK	1:30:00 PM	7.1906	7.1941			N/A
5/22/2019	CADSEK	3:30:00 PM	7.2064	7.196			N/A
5/22/2019	CADSGD	9:30:00 AM	1.0286	1.0289			N/A
5/22/2019	CADSGD	11:30:00 AM	1.0284	1.0287			N/A
5/22/2019	CADSGD	1:30:00 PM	1.0287	1.029			N/A
5/22/2019	CADSGD	3:30:00 PM	1.0306	1.0299			N/A
5/22/2019	CADZAR	9:30:00 AM	10.7422	10.7569			N/A
5/22/2019	CADZAR	11:30:00 AM	10.7125	10.7218			N/A
5/22/2019	CADZAR	1:30:00 PM	10.7078	10.7194			N/A
5/22/2019	CADZAR	3:30:00 PM	10.7465	10.7424			N/A
5/22/2019	CHFCZK	9:30:00 AM	22.807	22.822			N/A
5/22/2019	CHFCZK	11:30:00 AM	22.835	22.848			N/A
5/22/2019	CHFCZK	1:30:00 PM	22.827	22.843			N/A
5/22/2019	CHFCZK	3:30:00 PM	22.914	22.921			N/A
5/22/2019	CHFDKK	9:30:00 AM	6.616	6.62			N/A
5/22/2019	CHFDKK	11:30:00 AM	6.62	6.622			N/A
5/22/2019	CHFDKK	1:30:00 PM	6.618	6.621			N/A
5/22/2019	CHFDKK	3:30:00 PM	6.636	6.638			N/A
5/22/2019	CHFDKK.fx	9:30:00 AM	6.6155	6.6212			N/A
5/22/2019	CHFDKK.fx	11:30:00 AM	6.6186	6.6236			N/A
5/22/2019	CHFDKK.fx	1:30:00 PM	6.616	6.6221			N/A
5/22/2019	CHFDKK.fx	3:30:00 PM	6.6343	6.6397			N/A
5/22/2019	CHFHKD	9:30:00 AM	7.7562	7.7601			N/A
5/22/2019	CHFHKD	11:30:00 AM	7.7653	7.7677			N/A
5/22/2019	CHFHKD	1:30:00 PM	7.7703	7.7741			N/A
5/22/2019	CHFHKD	3:30:00 PM	7.7936	7.7953			N/A
5/22/2019	CHFHUF	9:30:00 AM	288.95	289.33			N/A
5/22/2019	CHFHUF	11:30:00 AM	289.31	289.5			N/A
5/22/2019	CHFHUF	1:30:00 PM	289.08	289.45			N/A
5/22/2019	CHFHUF	3:30:00 PM	290.02	290.26			N/A

5/22/2019	CHFJPY	9:30:00 AM	109.17	109.235			N/A
5/22/2019	CHFJPY	11:30:00 AM	109.245	109.285			N/A
5/22/2019	CHFJPY	1:30:00 PM	109.347	109.419			N/A
5/22/2019	CHFJPY	3:30:00 PM	109.545	109.58			N/A
5/22/2019	CHFJPY.fx	9:30:00 AM	109.203	109.201			N/A
5/22/2019	CHFJPY.fx	11:30:00 AM	109.277	109.252			N/A
5/22/2019	CHFJPY.fx	1:30:00 PM	109.38	109.384			N/A
5/22/2019	CHFJPY.fx	3:30:00 PM	109.579	109.545			N/A
5/22/2019	CHFMXN	9:30:00 AM	18.7856	18.8			N/A
5/22/2019	CHFMXN	11:30:00 AM	18.8057	18.8207			N/A
5/22/2019	CHFMXN	1:30:00 PM	18.7873	18.8046			N/A
5/22/2019	CHFMXN	3:30:00 PM	18.8653	18.8759			N/A
5/22/2019	CHFNOK	9:30:00 AM	8.6653	8.6718			N/A
5/22/2019	CHFNOK	11:30:00 AM	8.6498	8.6566			N/A
5/22/2019	CHFNOK	1:30:00 PM	8.6451	8.652			N/A
5/22/2019	CHFNOK	3:30:00 PM	8.673	8.6785			N/A
5/22/2019	CHFNOK.fx	9:30:00 AM	8.66867	8.6683			N/A
5/22/2019	CHFNOK.fx	11:30:00 AM	8.65345	8.65288			N/A
5/22/2019	CHFNOK.fx	1:30:00 PM	8.64862	8.6484			N/A
5/22/2019	CHFNOK.fx	3:30:00 PM	8.67658	8.67492			N/A
5/22/2019	CHFPLN	9:30:00 AM	3.8168	3.8195			N/A
5/22/2019	CHFPLN	11:30:00 AM	3.8189	3.8213			N/A
5/22/2019	CHFPLN	1:30:00 PM	3.8162	3.8193			N/A
5/22/2019	CHFPLN	3:30:00 PM	3.8243	3.8271			N/A
5/22/2019	CHFPLN.fx	9:30:00 AM	3.81456	3.82165			N/A
5/22/2019	CHFPLN.fx	11:30:00 AM	3.81634	3.82365			N/A
5/22/2019	CHFPLN.fx	1:30:00 PM	3.81384	3.82152			N/A
5/22/2019	CHFPLN.fx	3:30:00 PM	3.82194	3.82945			N/A
5/22/2019	CHFSEK	9:30:00 AM	9.5398	9.5418			N/A
5/22/2019	CHFSEK	11:30:00 AM	9.5361	9.5392			N/A
5/22/2019	CHFSEK	1:30:00 PM	9.5305	9.5347			N/A
5/22/2019	CHFSEK	3:30:00 PM	9.5633	9.5667			N/A
5/22/2019	CHFSGD	9:30:00 AM	1.3642	1.3645			N/A
5/22/2019	CHFSGD	11:30:00 AM	1.3641	1.3643			N/A

5/22/2019	CHFSGD	1:30:00 PM	1.3642	1.3647			N/A
5/22/2019	CHFSGD	3:30:00 PM	1.3687	1.369			N/A
5/22/2019	CHFSGD.fx	9:30:00 AM	1.36453	1.36427			N/A
5/22/2019	CHFSGD.fx	11:30:00 AM	1.36432	1.36408			N/A
5/22/2019	CHFSGD.fx	1:30:00 PM	1.36443	1.36447			N/A
5/22/2019	CHFSGD.fx	3:30:00 PM	1.36893	1.36878			N/A
5/22/2019	CHFZAR	9:30:00 AM	14.2447	14.2562			N/A
5/22/2019	CHFZAR	11:30:00 AM	14.203	14.211			N/A
5/22/2019	CHFZAR	1:30:00 PM	14.1965	14.2044			N/A
5/22/2019	CHFZAR	3:30:00 PM	14.2662	14.2745			N/A
5/22/2019	CZKJPY	9:30:00 AM					N/A
5/22/2019	CZKJPY	11:30:00 AM	4.783	4.787			N/A
5/22/2019	CZKJPY	1:30:00 PM	4.789	4.793			N/A
5/22/2019	CZKJPY	3:30:00 PM	4.78	4.783			N/A
5/22/2019	DAX30.i	9:30:00 AM	12130.16	12128.16			N/A
5/22/2019	DAX30.i	11:30:00 AM	12138.41	12136.41			N/A
5/22/2019	DAX30.i	1:30:00 PM	12198.41	12195.66			N/A
5/22/2019	DAX30.i	3:30:00 PM	12071.16	12067.91			N/A
5/22/2019	DJ30.i	9:30:00 AM					N/A
5/22/2019	DJ30.i	11:30:00 AM					N/A
5/22/2019	DJ30.i	1:30:00 PM					N/A
5/22/2019	DJ30.i	3:30:00 PM					N/A
5/22/2019	DKKJPY	9:30:00 AM					N/A
5/22/2019	DKKJPY	11:30:00 AM	16.5	16.52			N/A
5/22/2019	DKKJPY	1:30:00 PM					N/A
5/22/2019	DKKJPY	3:30:00 PM	16.52	16.53			N/A
5/22/2019	EURAUD	9:30:00 AM	1.62129	1.6217			N/A
5/22/2019	EURAUD	11:30:00 AM	1.61943	1.61958			N/A
5/22/2019	EURAUD	1:30:00 PM	1.61985	1.6203			N/A
5/22/2019	EURAUD	3:30:00 PM	1.62174	1.62164			N/A
5/22/2019	EURAUD.fx	9:30:00 AM	1.62149	1.62148			N/A
5/22/2019	EURAUD.fx	11:30:00 AM	1.61964	1.61934			N/A
5/22/2019	EURAUD.fx	1:30:00 PM	1.62006	1.62007			N/A
5/22/2019	EURAUD.fx	3:30:00 PM	1.62194	1.62141			N/A

5/22/2019	EURCAD	9:30:00 AM	1.49551	1.49631			N/A
5/22/2019	EURCAD	11:30:00 AM	1.49482	1.49543			N/A
5/22/2019	EURCAD	1:30:00 PM	1.49485	1.49573			N/A
5/22/2019	EURCAD	3:30:00 PM	1.49447	1.49339			N/A
5/22/2019	EURCAD.fx	9:30:00 AM	1.49592	1.49588			N/A
5/22/2019	EURCAD.fx	11:30:00 AM	1.49523	1.49501			N/A
5/22/2019	EURCAD.fx	1:30:00 PM	1.49527	1.4953			N/A
5/22/2019	EURCAD.fx	3:30:00 PM	1.49481	1.49303			N/A
5/22/2019	EURCHF	9:30:00 AM	1.1284	1.12845			N/A
5/22/2019	EURCHF	11:30:00 AM	1.128	1.12788			N/A
5/22/2019	EURCHF	1:30:00 PM	1.12818	1.12825			N/A
5/22/2019	EURCHF	3:30:00 PM	1.12519	1.12515			N/A
5/22/2019	EURCHF.fx	9:30:00 AM	1.12846	1.12839			N/A
5/22/2019	EURCHF.fx	11:30:00 AM	1.12805	1.12783			N/A
5/22/2019	EURCHF.fx	1:30:00 PM	1.12823	1.12818			N/A
5/22/2019	EURCHF.fx	3:30:00 PM	1.12525	1.12509			N/A
5/22/2019	EURCZK	9:30:00 AM	25.722	25.761			N/A
5/22/2019	EURCZK	11:30:00 AM	25.74	25.779			N/A
5/22/2019	EURCZK	1:30:00 PM	25.74	25.779			N/A
5/22/2019	EURCZK	3:30:00 PM	25.768	25.796			N/A
5/22/2019	EURDKK	9:30:00 AM					N/A
5/22/2019	EURDKK	11:30:00 AM	7.4655	7.4659			N/A
5/22/2019	EURDKK	1:30:00 PM	7.4664	7.4672			N/A
5/22/2019	EURDKK	3:30:00 PM	7.4671	7.4682			N/A
5/22/2019	EURGBP	9:30:00 AM	0.87863	0.87864			N/A
5/22/2019	EURGBP	11:30:00 AM	0.88056	0.88033			N/A
5/22/2019	EURGBP	1:30:00 PM	0.88128	0.88127			N/A
5/22/2019	EURGBP	3:30:00 PM	0.88236	0.88239			N/A
5/22/2019	EURGBP.fx	9:30:00 AM	0.87867	0.87858			N/A
5/22/2019	EURGBP.fx	11:30:00 AM	0.88059	0.88035			N/A
5/22/2019	EURGBP.fx	1:30:00 PM	0.88132	0.88122			N/A
5/22/2019	EURGBP.fx	3:30:00 PM	0.8824	0.88234			N/A
5/22/2019	EURHKD	9:30:00 AM	8.7525	8.7573			N/A
5/22/2019	EURHKD	11:30:00 AM	8.7585	8.7623			N/A

5/22/2019	EURHKD	1:30:00 PM	8.7667	8.7717			N/A
5/22/2019	EURHKD	3:30:00 PM	8.7688	8.7729			N/A
5/22/2019	EURHKD.fx	9:30:00 AM	8.75538	8.75447			N/A
5/22/2019	EURHKD.fx	11:30:00 AM	8.76128	8.75946			N/A
5/22/2019	EURHKD.fx	1:30:00 PM	8.76956	8.76889			N/A
5/22/2019	EURHKD.fx	3:30:00 PM	8.77164	8.77002			N/A
5/22/2019	EURHUF	9:30:00 AM	326.01	326.6			N/A
5/22/2019	EURHUF	11:30:00 AM	326.27	326.93			N/A
5/22/2019	EURHUF	1:30:00 PM	326.09	326.82			N/A
5/22/2019	EURHUF	3:30:00 PM	326.26	326.97			N/A
5/22/2019	EURHUF.fx	9:30:00 AM	326.284	326.45			N/A
5/22/2019	EURHUF.fx	11:30:00 AM	326.541	326.641			N/A
5/22/2019	EURHUF.fx	1:30:00 PM	326.371	326.548			N/A
5/22/2019	EURHUF.fx	3:30:00 PM	326.539	326.685			N/A
5/22/2019	EURJPY	9:30:00 AM	123.232	123.225			N/A
5/22/2019	EURJPY	11:30:00 AM	123.253	123.234			N/A
5/22/2019	EURJPY	1:30:00 PM	123.408	123.406			N/A
5/22/2019	EURJPY	3:30:00 PM	123.284	123.265		10	N/A
5/22/2019	EURJPY.fx	9:30:00 AM	123.234	123.221			N/A
5/22/2019	EURJPY.fx	11:30:00 AM	123.255	123.231			N/A
5/22/2019	EURJPY.fx	1:30:00 PM	123.411	123.402			N/A
5/22/2019	EURJPY.fx	3:30:00 PM	123.287	123.261			N/A
5/22/2019	EURMXN	9:30:00 AM	21.2021	21.2176			N/A
5/22/2019	EURMXN	11:30:00 AM	21.2132	21.2327			N/A
5/22/2019	EURMXN	1:30:00 PM	21.1989	21.2183			N/A
5/22/2019	EURMXN	3:30:00 PM	21.2325	21.2436			N/A
5/22/2019	EURMXN.f	9:30:00 AM	21.2122	21.2093			N/A
5/22/2019	EURMXN.f	11:30:00 AM	21.2218	21.2236			N/A
5/22/2019	EURMXN.f	1:30:00 PM	21.2077	21.2096			N/A
5/22/2019	EURMXN.f	3:30:00 PM	21.2424	21.2346			N/A
5/22/2019	EURNOK	9:30:00 AM	9.776	9.7874			N/A
5/22/2019	EURNOK	11:30:00 AM	9.7542	9.7666			N/A
5/22/2019	EURNOK	1:30:00 PM	9.7517	9.7633			N/A
5/22/2019	EURNOK	3:30:00 PM	9.7563	9.7671			N/A

5/22/2019	EURNOK.fx	9:30:00 AM	9.78129	9.78208			N/A
5/22/2019	EURNOK.fx	11:30:00 AM	9.75988	9.76089			N/A
5/22/2019	EURNOK.fx	1:30:00 PM	9.7571	9.7577			N/A
5/22/2019	EURNOK.fx	3:30:00 PM	9.7618	9.76158			N/A
5/22/2019	EURNZD	9:30:00 AM	1.71643	1.71723			N/A
5/22/2019	EURNZD	11:30:00 AM	1.71492	1.71558			N/A
5/22/2019	EURNZD	1:30:00 PM	1.71627	1.71713			N/A
5/22/2019	EURNZD	3:30:00 PM	1.71709	1.71762			N/A
5/22/2019	EURNZD.fx	9:30:00 AM	1.71686	1.71679			N/A
5/22/2019	EURNZD.fx	11:30:00 AM	1.71535	1.71513			N/A
5/22/2019	EURNZD.fx	1:30:00 PM	1.71669	1.71669			N/A
5/22/2019	EURNZD.fx	3:30:00 PM	1.7175	1.71718			N/A
5/22/2019	EURPLN	9:30:00 AM	4.3068	4.3099			N/A
5/22/2019	EURPLN	11:30:00 AM	4.3073	4.3074			N/A
5/22/2019	EURPLN	1:30:00 PM	4.3056	4.3078			N/A
5/22/2019	EURPLN	3:30:00 PM	4.3031	4.3062			N/A
5/22/2019	EURPLN.fx	9:30:00 AM	4.30636	4.31042			N/A
5/22/2019	EURPLN.fx	11:30:00 AM	4.30676	4.31101			N/A
5/22/2019	EURPLN.fx	1:30:00 PM	4.30497	4.30922			N/A
5/22/2019	EURPLN.fx	3:30:00 PM	4.30257	4.30682			N/A
5/22/2019	EURRUB	9:30:00 AM					N/A
5/22/2019	EURRUB	11:30:00 AM	71.493	71.926			N/A
5/22/2019	EURRUB	1:30:00 PM	71.324	71.762			N/A
5/22/2019	EURRUB	3:30:00 PM	71.454	71.895			N/A
5/22/2019	EURSEK	9:30:00 AM	10.7669	10.7687			N/A
5/22/2019	EURSEK	11:30:00 AM	10.7583	10.7615			N/A
5/22/2019	EURSEK	1:30:00 PM	10.7541	10.7591			N/A
5/22/2019	EURSEK	3:30:00 PM	10.7618	10.7644			N/A
5/22/2019	EURSEK.fx	9:30:00 AM	10.76858	10.76684			N/A
5/22/2019	EURSEK.fx	11:30:00 AM	10.76001	10.75992			N/A
5/22/2019	EURSEK.fx	1:30:00 PM	10.75577	10.75746			N/A
5/22/2019	EURSEK.fx	3:30:00 PM	10.76345	10.76273			N/A
5/22/2019	EURSGD	9:30:00 AM	1.5394	1.54			N/A
5/22/2019	EURSGD	11:30:00 AM	1.5384	1.539			N/A

5/22/2019	EURSGD	1:30:00 PM	1.539	1.5398			N/A
5/22/2019	EURSGD	3:30:00 PM	1.5398	1.5406			N/A
5/22/2019	EURSGD.fx	9:30:00 AM	1.5397	1.53958			N/A
5/22/2019	EURSGD.fx	11:30:00 AM	1.53876	1.53861			N/A
5/22/2019	EURSGD.fx	1:30:00 PM	1.53939	1.53942			N/A
5/22/2019	EURSGD.fx	3:30:00 PM	1.5402	1.54017			N/A
5/22/2019	EURUSD	9:30:00 AM	1.11519	1.11522			N/A
5/22/2019	EURUSD	11:30:00 AM	1.11591	1.11586			N/A
5/22/2019	EURUSD	1:30:00 PM	1.11692	1.117			N/A
5/22/2019	EURUSD	3:30:00 PM	1.1172	1.11714			N/A
5/22/2019	EURUSD.fx	9:30:00 AM	1.11539	1.11531			N/A
5/22/2019	EURUSD.fx	11:30:00 AM	1.1161	1.11597			N/A
5/22/2019	EURUSD.fx	1:30:00 PM	1.11713	1.1171			N/A
5/22/2019	EURUSD.fx	3:30:00 PM	1.11741	1.11723			N/A
5/22/2019	EURZAR	9:30:00 AM	16.0772	16.0927			N/A
5/22/2019	EURZAR	11:30:00 AM	16.0241	16.0401			N/A
5/22/2019	EURZAR	1:30:00 PM	16.0186	16.0311			N/A
5/22/2019	EURZAR	3:30:00 PM	16.059	16.0726			N/A
5/22/2019	EURZAR.fx	9:30:00 AM	16.07671	16.09283			N/A
5/22/2019	EURZAR.fx	11:30:00 AM	16.02317	16.03989			N/A
5/22/2019	EURZAR.fx	1:30:00 PM	16.01856	16.03174			N/A
5/22/2019	EURZAR.fx	3:30:00 PM	16.05865	16.07313			N/A
5/22/2019	GBPAUD	9:30:00 AM	1.84596	1.84641			N/A
5/22/2019	GBPAUD	11:30:00 AM	1.84012	1.83996			N/A
5/22/2019	GBPAUD	1:30:00 PM	1.83863	1.8393			N/A
5/22/2019	GBPAUD	3:30:00 PM	1.83852	1.83873			N/A
5/22/2019	GBPAUD.fx	9:30:00 AM	1.84636	1.84599			N/A
5/22/2019	GBPAUD.fx	11:30:00 AM	1.84047	1.83955			N/A
5/22/2019	GBPAUD.fx	1:30:00 PM	1.83903	1.83891			N/A
5/22/2019	GBPAUD.fx	3:30:00 PM	1.83892	1.83832			N/A
5/22/2019	GBPCAD	9:30:00 AM	1.70217	1.70278			N/A
5/22/2019	GBPCAD	11:30:00 AM	1.69822	1.69833			N/A
5/22/2019	GBPCAD	1:30:00 PM	1.69645	1.69702			N/A
5/22/2019	GBPCAD	3:30:00 PM	1.69431	1.6924			N/A

5/22/2019	GBPCAD.fx	9:30:00 AM	1.70256	1.70239			N/A
5/22/2019	GBPCAD.fx	11:30:00 AM	1.69841	1.69793			N/A
5/22/2019	GBPCAD.fx	1:30:00 PM	1.69685	1.69658			N/A
5/22/2019	GBPCAD.fx	3:30:00 PM	1.69459	1.69201			N/A
5/22/2019	GBPCHF	9:30:00 AM	1.28409	1.28444			N/A
5/22/2019	GBPCHF	11:30:00 AM	1.28114	1.28094			N/A
5/22/2019	GBPCHF	1:30:00 PM	1.28012	1.28033			N/A
5/22/2019	GBPCHF	3:30:00 PM	1.27503	1.27538			N/A
5/22/2019	GBPCHF.fx	9:30:00 AM	1.28428	1.28423			N/A
5/22/2019	GBPCHF.fx	11:30:00 AM	1.28131	1.28077			N/A
5/22/2019	GBPCHF.fx	1:30:00 PM	1.28031	1.28012			N/A
5/22/2019	GBPCHF.fx	3:30:00 PM	1.27524	1.27516			N/A
5/22/2019	GBPCZK	9:30:00 AM	29.288	29.306			N/A
5/22/2019	GBPCZK	11:30:00 AM	29.251	29.261			N/A
5/22/2019	GBPCZK	1:30:00 PM	29.22	29.238			N/A
5/22/2019	GBPCZK	3:30:00 PM	29.213	29.225			N/A
5/22/2019	GBPDKK	9:30:00 AM	8.496	8.506			N/A
5/22/2019	GBPDKK	11:30:00 AM	8.479	8.487			N/A
5/22/2019	GBPDKK	1:30:00 PM	8.469	8.479			N/A
5/22/2019	GBPDKK	3:30:00 PM	8.459	8.467			N/A
5/22/2019	GBPDKK.fx	9:30:00 AM	8.4943	8.506			N/A
5/22/2019	GBPDKK.fx	11:30:00 AM	8.4772	8.4872			N/A
5/22/2019	GBPDKK.fx	1:30:00 PM	8.4678	8.4798			N/A
5/22/2019	GBPDKK.fx	3:30:00 PM	8.4574	8.4697			N/A
5/22/2019	GBPHKD	9:30:00 AM	9.959	9.9641			N/A
5/22/2019	GBPHKD	11:30:00 AM	9.9462	9.9477			N/A
5/22/2019	GBPHKD	1:30:00 PM	9.9466	9.9499			N/A
5/22/2019	GBPHKD	3:30:00 PM	9.9355	9.9386			N/A
5/22/2019	GBPHUF	9:30:00 AM	371.08	371.49			N/A
5/22/2019	GBPHUF	11:30:00 AM	370.65	370.67			N/A
5/22/2019	GBPHUF	1:30:00 PM	370.04	370.48			N/A
5/22/2019	GBPHUF	3:30:00 PM	369.76	370.06			N/A
5/22/2019	GBPJPY	9:30:00 AM	140.233	140.252			N/A
5/22/2019	GBPJPY	11:30:00 AM	140.002	139.978			N/A

5/22/2019	GBPJPY	1:30:00 PM	140.026	140.041			N/A
5/22/2019	GBPJPY	3:30:00 PM	139.706	139.717			N/A
5/22/2019	GBPJPY.fx	9:30:00 AM	140.251	140.233			N/A
5/22/2019	GBPJPY.fx	11:30:00 AM	140.005	139.963			N/A
5/22/2019	GBPJPY.fx	1:30:00 PM	140.046	140.021			N/A
5/22/2019	GBPJPY.fx	3:30:00 PM	139.727	139.699			N/A
5/22/2019	GBPMXN	9:30:00 AM	24.1258	24.1353			N/A
5/22/2019	GBPMXN	11:30:00 AM	24.092	24.0956			N/A
5/22/2019	GBPMXN	1:30:00 PM	24.0527	24.0642			N/A
5/22/2019	GBPMXN	3:30:00 PM	24.0556	24.0637			N/A
5/22/2019	GBPNOK	9:30:00 AM	11.1284	11.1377			N/A
5/22/2019	GBPNOK	11:30:00 AM	11.0814	11.0896			N/A
5/22/2019	GBPNOK	1:30:00 PM	11.0666	11.0772			N/A
5/22/2019	GBPNOK	3:30:00 PM	11.0587	11.0676			N/A
5/22/2019	GBPNOK.fx	9:30:00 AM	11.13325	11.13312			N/A
5/22/2019	GBPNOK.fx	11:30:00 AM	11.08628	11.08442			N/A
5/22/2019	GBPNOK.fx	1:30:00 PM	11.0717	11.07206			N/A
5/22/2019	GBPNOK.fx	3:30:00 PM	11.0635	11.06229			N/A
5/22/2019	GBPNZD	9:30:00 AM	1.95376	1.95425			N/A
5/22/2019	GBPNZD	11:30:00 AM	1.94835	1.94821			N/A
5/22/2019	GBPNZD	1:30:00 PM	1.94757	1.9483			N/A
5/22/2019	GBPNZD	3:30:00 PM	1.94616	1.94653			N/A
5/22/2019	GBPNZD.fx	9:30:00 AM	1.95415	1.95387			N/A
5/22/2019	GBPNZD.fx	11:30:00 AM	1.94863	1.94779			N/A
5/22/2019	GBPNZD.fx	1:30:00 PM	1.94795	1.9479			N/A
5/22/2019	GBPNZD.fx	3:30:00 PM	1.94655	1.94613			N/A
5/22/2019	GBPPLN	9:30:00 AM	4.903	4.9041			N/A
5/22/2019	GBPPLN	11:30:00 AM	4.8937	4.8942			N/A
5/22/2019	GBPPLN	1:30:00 PM	4.8868	4.888			N/A
5/22/2019	GBPPLN	3:30:00 PM	4.8779	4.8795			N/A
5/22/2019	GBPPLN.fx	9:30:00 AM	4.90106	4.90604			N/A
5/22/2019	GBPPLN.fx	11:30:00 AM	4.89146	4.89632			N/A
5/22/2019	GBPPLN.fx	1:30:00 PM	4.88463	4.88996			N/A
5/22/2019	GBPPLN.fx	3:30:00 PM	4.87595	4.88154			N/A

5/22/2019	GBPSEK	9:30:00 AM	12.2528	12.2582			N/A
5/22/2019	GBPSEK	11:30:00 AM	12.2191	12.223			N/A
5/22/2019	GBPSEK	1:30:00 PM	12.2019	12.2098			N/A
5/22/2019	GBPSEK	3:30:00 PM	12.1949	12.2019			N/A
5/22/2019	GBPSEK.fx	9:30:00 AM	12.24911	12.26193			N/A
5/22/2019	GBPSEK.fx	11:30:00 AM	12.21403	12.22683			N/A
5/22/2019	GBPSEK.fx	1:30:00 PM	12.19829	12.21347			N/A
5/22/2019	GBPSEK.fx	3:30:00 PM	12.19128	12.20535			N/A
5/22/2019	GBPSGD	9:30:00 AM	1.7521	1.7526			N/A
5/22/2019	GBPSGD	11:30:00 AM	1.7477	1.7477			N/A
5/22/2019	GBPSGD	1:30:00 PM	1.7464	1.7471			N/A
5/22/2019	GBPSGD	3:30:00 PM	1.7453	1.7458			N/A
5/22/2019	GBPSGD.fx	9:30:00 AM	1.75035	1.75435			N/A
5/22/2019	GBPSGD.fx	11:30:00 AM	1.74569	1.7496			N/A
5/22/2019	GBPSGD.fx	1:30:00 PM	1.74469	1.74886			N/A
5/22/2019	GBPSGD.fx	3:30:00 PM	1.74344	1.74763			N/A
5/22/2019	GBPUSD	9:30:00 AM	1.26942	1.2693			N/A
5/22/2019	GBPUSD	11:30:00 AM	1.26797	1.2674	600	100	N/A
5/22/2019	GBPUSD	1:30:00 PM	1.2677	1.26751			N/A
5/22/2019	GBPUSD	3:30:00 PM	1.26635	1.26626			N/A
5/22/2019	GBPUSD.fx	9:30:00 AM	1.26948	1.26923			N/A
5/22/2019	GBPUSD.fx	11:30:00 AM	1.26798	1.26736			N/A
5/22/2019	GBPUSD.fx	1:30:00 PM	1.26776	1.26745			N/A
5/22/2019	GBPUSD.fx	3:30:00 PM	1.26642	1.26619			N/A
5/22/2019	GBPZAR	9:30:00 AM	18.2934	18.3169			N/A
5/22/2019	GBPZAR	11:30:00 AM	18.1988	18.2176			N/A
5/22/2019	GBPZAR	1:30:00 PM	18.173	18.1937			N/A
5/22/2019	GBPZAR	3:30:00 PM	18.1968	18.2169			N/A
5/22/2019	GBPZAR.fx	9:30:00 AM	18.3009	18.3087			N/A
5/22/2019	GBPZAR.fx	11:30:00 AM	18.2062	18.2109			N/A
5/22/2019	GBPZAR.fx	1:30:00 PM	18.1806	18.1862			N/A
5/22/2019	GBPZAR.fx	3:30:00 PM	18.2043	18.2098			N/A
5/22/2019	GOLD	9:30:00 AM	1273.05	1273.38			N/A
5/22/2019	GOLD	11:30:00 AM	1273.91	1274.22			N/A

5/22/2019	GOLD	1:30:00 PM	1274.01	1274.35			N/A
5/22/2019	GOLD	3:30:00 PM	1276.91	1276.82			N/A
5/22/2019	HKDJPY	9:30:00 AM	14.07	14.09			N/A
5/22/2019	HKDJPY	11:30:00 AM	14.07	14.08			N/A
5/22/2019	HKDJPY	1:30:00 PM	14.07	14.08			N/A
5/22/2019	HKDJPY	3:30:00 PM	14.06	14.06			N/A
5/22/2019	HKDJPY.fx	9:30:00 AM	14.072	14.078			N/A
5/22/2019	HKDJPY.fx	11:30:00 AM	14.064	14.071			N/A
5/22/2019	HKDJPY.fx	1:30:00 PM	14.068	14.075			N/A
5/22/2019	HKDJPY.fx	3:30:00 PM	14.051	14.057			N/A
5/22/2019	HUFJPY	9:30:00 AM	0.3778	0.3781			N/A
5/22/2019	HUFJPY	11:30:00 AM	0.3776	0.3779			N/A
5/22/2019	HUFJPY	1:30:00 PM	0.3782	0.3785			N/A
5/22/2019	HUFJPY	3:30:00 PM	0.3778	0.3781			N/A
5/22/2019	JP225.i	9:30:00 AM	21288.51	21301.01			N/A
5/22/2019	JP225.i	11:30:00 AM	21258.51	21276.01			N/A
5/22/2019	JP225.i	1:30:00 PM	21321.01	21338.51			N/A
5/22/2019	JP225.i	3:30:00 PM	21213.51	21218.51			N/A
5/22/2019	MXNJPY	9:30:00 AM	5.81	5.82			N/A
5/22/2019	MXNJPY	11:30:00 AM	5.81	5.82			N/A
5/22/2019	MXNJPY	1:30:00 PM	5.82	5.83			N/A
5/22/2019	MXNJPY	3:30:00 PM	5.81	5.81			N/A
5/22/2019	NASDAQ.i	9:30:00 AM					N/A
5/22/2019	NASDAQ.i	11:30:00 AM					N/A
5/22/2019	NASDAQ.i	1:30:00 PM					N/A
5/22/2019	NASDAQ.i	3:30:00 PM					N/A
5/22/2019	NOKJPY	9:30:00 AM	12.59	12.62			N/A
5/22/2019	NOKJPY	11:30:00 AM	12.62	12.65			N/A
5/22/2019	NOKJPY	1:30:00 PM	12.64	12.67			N/A
5/22/2019	NOKJPY	3:30:00 PM	12.62	12.65			N/A
5/22/2019	NOKJPY.fx	9:30:00 AM	12.595	12.6			N/A
5/22/2019	NOKJPY.fx	11:30:00 AM	12.624	12.63			N/A
5/22/2019	NOKJPY.fx	1:30:00 PM	12.645	12.65			N/A
5/22/2019	NOKJPY.fx	3:30:00 PM	12.627	12.63			N/A

5/22/2019	NZDCAD	9:30:00 AM	0.87098	0.87168			N/A
5/22/2019	NZDCAD	11:30:00 AM	0.87134	0.87196			N/A
5/22/2019	NZDCAD	1:30:00 PM	0.87069	0.87137			N/A
5/22/2019	NZDCAD	3:30:00 PM	0.87069	0.86977			N/A
5/22/2019	NZDCAD.fx	9:30:00 AM	0.87132	0.87133			N/A
5/22/2019	NZDCAD.fx	11:30:00 AM	0.87167	0.87161			N/A
5/22/2019	NZDCAD.fx	1:30:00 PM	0.87102	0.87103			N/A
5/22/2019	NZDCAD.fx	3:30:00 PM	0.87091	0.86948			N/A
5/22/2019	NZDCHF	9:30:00 AM	0.65693	0.65764			N/A
5/22/2019	NZDCHF	11:30:00 AM	0.65728	0.6579			N/A
5/22/2019	NZDCHF	1:30:00 PM	0.65686	0.65756			N/A
5/22/2019	NZDCHF	3:30:00 PM	0.65492	0.65541			N/A
5/22/2019	NZDCHF.fx	9:30:00 AM	0.65727	0.65728			N/A
5/22/2019	NZDCHF.fx	11:30:00 AM	0.65761	0.65755			N/A
5/22/2019	NZDCHF.fx	1:30:00 PM	0.6572	0.65721			N/A
5/22/2019	NZDCHF.fx	3:30:00 PM	0.65525	0.65505			N/A
5/22/2019	NZDCZK	9:30:00 AM	14.986	14.999			N/A
5/22/2019	NZDCZK	11:30:00 AM	15.012	15.023			N/A
5/22/2019	NZDCZK	1:30:00 PM	14.998	15.01			N/A
5/22/2019	NZDCZK	3:30:00 PM	15.007	15.017			N/A
5/22/2019	NZDDKK	9:30:00 AM	4.348	4.352			N/A
5/22/2019	NZDDKK	11:30:00 AM	4.352	4.355			N/A
5/22/2019	NZDDKK	1:30:00 PM					N/A
5/22/2019	NZDDKK	3:30:00 PM	4.346	4.349			N/A
5/22/2019	NZDHKD	9:30:00 AM	5.0961	5.0989			N/A
5/22/2019	NZDHKD	11:30:00 AM	5.1042	5.107			N/A
5/22/2019	NZDHKD	1:30:00 PM	5.1053	5.1076			N/A
5/22/2019	NZDHKD	3:30:00 PM	5.1039	5.1052			N/A
5/22/2019	NZDHUF	9:30:00 AM	189.85	190.14			N/A
5/22/2019	NZDHUF	11:30:00 AM	190.19	190.32			N/A
5/22/2019	NZDHUF	1:30:00 PM	189.91	190.2			N/A
5/22/2019	NZDHUF	3:30:00 PM	189.92	190.15			N/A
5/22/2019	NZDJPY	9:30:00 AM	71.744	71.808			N/A
5/22/2019	NZDJPY	11:30:00 AM	71.82	71.882			N/A

5/22/2019	NZDJPY	1:30:00 PM	71.856	71.92			N/A
5/22/2019	NZDJPY	3:30:00 PM	71.753	71.805			N/A
5/22/2019	NZDJPY.fx	9:30:00 AM	71.777	71.775			N/A
5/22/2019	NZDJPY.fx	11:30:00 AM	71.85	71.85			N/A
5/22/2019	NZDJPY.fx	1:30:00 PM	71.887	71.886			N/A
5/22/2019	NZDJPY.fx	3:30:00 PM	71.785	71.772			N/A
5/22/2019	NZDMXN	9:30:00 AM	12.3463	12.3506			N/A
5/22/2019	NZDMXN	11:30:00 AM	12.3646	12.3687			N/A
5/22/2019	NZDMXN	1:30:00 PM	12.3464	12.3519			N/A
5/22/2019	NZDMXN	3:30:00 PM	12.3587	12.3615			N/A
5/22/2019	NZDNOK	9:30:00 AM	5.6932	5.6965			N/A
5/22/2019	NZDNOK	11:30:00 AM	5.6862	5.6875			N/A
5/22/2019	NZDNOK	1:30:00 PM	5.6795	5.6832			N/A
5/22/2019	NZDNOK	3:30:00 PM	5.6794	5.6816			N/A
5/22/2019	NZDPLN	9:30:00 AM	2.5078	2.5092			N/A
5/22/2019	NZDPLN	11:30:00 AM	2.5097	2.5112			N/A
5/22/2019	NZDPLN	1:30:00 PM	2.5075	2.5087			N/A
5/22/2019	NZDPLN	3:30:00 PM	2.5049	2.5052			N/A
5/22/2019	NZDSEK	9:30:00 AM	6.2662	6.2721			N/A
5/22/2019	NZDSEK	11:30:00 AM	6.2663	6.2732			N/A
5/22/2019	NZDSEK	1:30:00 PM	6.26	6.2663			N/A
5/22/2019	NZDSEK	3:30:00 PM	6.2617	6.2672			N/A
5/22/2019	NZDSGD	9:30:00 AM	0.8966	0.8971			N/A
5/22/2019	NZDSGD	11:30:00 AM	0.8969	0.8974			N/A
5/22/2019	NZDSGD	1:30:00 PM	0.8964	0.8971			N/A
5/22/2019	NZDSGD	3:30:00 PM	0.8967	0.8971			N/A
5/22/2019	NZDSGD.fx	9:30:00 AM	0.89656	0.89701			N/A
5/22/2019	NZDSGD.fx	11:30:00 AM	0.89687	0.89733			N/A
5/22/2019	NZDSGD.fx	1:30:00 PM	0.89644	0.89699			N/A
5/22/2019	NZDSGD.fx	3:30:00 PM	0.89664	0.89702			N/A
5/22/2019	NZDUSD	9:30:00 AM	0.64957	0.64964			N/A
5/22/2019	NZDUSD	11:30:00 AM	0.65054	0.65064			N/A
5/22/2019	NZDUSD	1:30:00 PM	0.65064	0.65074			N/A
5/22/2019	NZDUSD	3:30:00 PM	0.65062	0.65056			N/A

5/22/2019	NZDUSD.fx	9:30:00 AM	0.64965	0.64966			N/A
5/22/2019	NZDUSD.fx	11:30:00 AM	0.65061	0.65065			N/A
5/22/2019	NZDUSD.fx	1:30:00 PM	0.65071	0.65075			N/A
5/22/2019	NZDUSD.fx	3:30:00 PM	0.65069	0.65058			N/A
5/22/2019	NZDZAR	9:30:00 AM	9.3561	9.3712			N/A
5/22/2019	NZDZAR	11:30:00 AM	9.3336	9.3452			N/A
5/22/2019	NZDZAR	1:30:00 PM	9.3229	9.3355			N/A
5/22/2019	NZDZAR	3:30:00 PM	9.3408	9.3535			N/A
5/22/2019	SEKJPY	9:30:00 AM	11.45	11.45			N/A
5/22/2019	SEKJPY	11:30:00 AM	11.46	11.46			N/A
5/22/2019	SEKJPY	1:30:00 PM	11.48	11.48			N/A
5/22/2019	SEKJPY	3:30:00 PM	11.46	11.46			N/A
5/22/2019	SEKJPY.fx	9:30:00 AM	11.436	11.451			N/A
5/22/2019	SEKJPY.fx	11:30:00 AM	11.445	11.463			N/A
5/22/2019	SEKJPY.fx	1:30:00 PM	11.463	11.481			N/A
5/22/2019	SEKJPY.fx	3:30:00 PM	11.446	11.461			N/A
5/22/2019	SGDJPY	9:30:00 AM	80.01	80.03			N/A
5/22/2019	SGDJPY	11:30:00 AM	80.06	80.09			N/A
5/22/2019	SGDJPY	1:30:00 PM	80.15	80.17			N/A
5/22/2019	SGDJPY	3:30:00 PM	80.03	80.03			N/A
5/22/2019	SILVER	9:30:00 AM	14.23	14.6			N/A
5/22/2019	SILVER	11:30:00 AM	14.24	14.61			N/A
5/22/2019	SILVER	1:30:00 PM	14.26	14.64			N/A
5/22/2019	SILVER	3:30:00 PM	14.3	14.67			N/A
5/22/2019	SPX500.i	9:30:00 AM	2861.34	2862.14			N/A
5/22/2019	SPX500.i	11:30:00 AM	2859.34	2860.14			N/A
5/22/2019	SPX500.i	1:30:00 PM	2864.59	2865.14			N/A
5/22/2019	SPX500.i	3:30:00 PM	2851.59	2851.14			N/A
5/22/2019	UK100.i	9:30:00 AM	7350.33	7352.83			N/A
5/22/2019	UK100.i	11:30:00 AM	7354.58	7354.58			N/A
5/22/2019	UK100.i	1:30:00 PM	7368.33	7369.08			N/A
5/22/2019	UK100.i	3:30:00 PM	7326.83	7324.58			N/A
5/22/2019	USDCAD	9:30:00 AM	1.34121	1.34127			N/A
5/22/2019	USDCAD	11:30:00 AM	1.33965	1.33975			N/A

5/22/2019	USDCAD	1:30:00 PM	1.33849	1.33862			N/A
5/22/2019	USDCAD	3:30:00 PM	1.33896	1.33617			N/A
5/22/2019	USDCAD.fx	9:30:00 AM	1.34124	1.34123			N/A
5/22/2019	USDCAD.fx	11:30:00 AM	1.33967	1.33973			N/A
5/22/2019	USDCAD.fx	1:30:00 PM	1.33852	1.33857			N/A
5/22/2019	USDCAD.fx	3:30:00 PM	1.33885	1.33615			N/A
5/22/2019	USDCHF	9:30:00 AM	1.01169	1.0118			N/A
5/22/2019	USDCHF	11:30:00 AM	1.01072	1.0106			N/A
5/22/2019	USDCHF	1:30:00 PM	1.00987	1.01004			N/A
5/22/2019	USDCHF	3:30:00 PM	1.00706	1.00696			N/A
5/22/2019	USDCHF.fx	9:30:00 AM	1.01173	1.01174			N/A
5/22/2019	USDCHF.fx	11:30:00 AM	1.01076	1.01055			N/A
5/22/2019	USDCHF.fx	1:30:00 PM	1.00992	1.00998			N/A
5/22/2019	USDCHF.fx	3:30:00 PM	1.00711	1.00689			N/A
5/22/2019	USDCZK	9:30:00 AM	23.09	23.112			N/A
5/22/2019	USDCZK	11:30:00 AM	23.092	23.111			N/A
5/22/2019	USDCZK	1:30:00 PM	23.068	23.092			N/A
5/22/2019	USDCZK	3:30:00 PM	23.09	23.104			N/A
5/22/2019	USDCZK.fx	9:30:00 AM	23.0979	23.1033			N/A
5/22/2019	USDCZK.fx	11:30:00 AM	23.1005	23.1021			N/A
5/22/2019	USDCZK.fx	1:30:00 PM	23.077	23.082			N/A
5/22/2019	USDCZK.fx	3:30:00 PM	23.0988	23.0945			N/A
5/22/2019	USDDKK	9:30:00 AM	6.6951	6.6987			N/A
5/22/2019	USDDKK	11:30:00 AM	6.691	6.694			N/A
5/22/2019	USDDKK	1:30:00 PM	6.6836	6.6877			N/A
5/22/2019	USDDKK	3:30:00 PM	6.6827	6.686			N/A
5/22/2019	USDDKK.fx	9:30:00 AM	6.69548	6.69658			N/A
5/22/2019	USDDKK.fx	11:30:00 AM	6.69148	6.692			N/A
5/22/2019	USDDKK.fx	1:30:00 PM	6.68425	6.68562			N/A
5/22/2019	USDDKK.fx	3:30:00 PM	6.68353	6.68387			N/A
5/22/2019	USDHKD	9:30:00 AM	7.8493	7.8496			N/A
5/22/2019	USDHKD	11:30:00 AM	7.8493	7.8493			N/A
5/22/2019	USDHKD	1:30:00 PM	7.8497	7.8501			N/A
5/22/2019	USDHKD	3:30:00 PM	7.8496	7.8498			N/A

5/22/2019	USDHKD.fx	9:30:00 AM	7.84919	7.84977			N/A
5/22/2019	USDHKD.fx	11:30:00 AM	7.84929	7.84973			N/A
5/22/2019	USDHKD.fx	1:30:00 PM	7.84961	7.85012			N/A
5/22/2019	USDHKD.fx	3:30:00 PM	7.84958	7.85014			N/A
5/22/2019	USDHUF	9:30:00 AM	292.39	292.84			N/A
5/22/2019	USDHUF	11:30:00 AM	292.46	292.82			N/A
5/22/2019	USDHUF	1:30:00 PM	292	292.47			N/A
5/22/2019	USDHUF	3:30:00 PM	292.12	292.51			N/A
5/22/2019	USDHUF.fx	9:30:00 AM	292.585	292.645			N/A
5/22/2019	USDHUF.fx	11:30:00 AM	292.664	292.628			N/A
5/22/2019	USDHUF.fx	1:30:00 PM	292.202	292.274			N/A
5/22/2019	USDHUF.fx	3:30:00 PM	292.329	292.297			N/A
5/22/2019	USDINR	9:30:00 AM	64.76	74.74			N/A
5/22/2019	USDINR	11:30:00 AM	64.68	74.67			N/A
5/22/2019	USDINR	1:30:00 PM					N/A
5/22/2019	USDINR	3:30:00 PM					N/A
5/22/2019	USDJPY	9:30:00 AM	110.484	110.49			N/A
5/22/2019	USDJPY	11:30:00 AM	110.427	110.435	4300	4300	N/A
5/22/2019	USDJPY	1:30:00 PM	110.465	110.476			N/A
5/22/2019	USDJPY	3:30:00 PM	110.327	110.333			N/A
5/22/2019	USDJPY.fx	9:30:00 AM	110.49	110.482			N/A
5/22/2019	USDJPY.fx	11:30:00 AM	110.432	110.429			N/A
5/22/2019	USDJPY.fx	1:30:00 PM	110.47	110.469			N/A
5/22/2019	USDJPY.fx	3:30:00 PM	110.332	110.326			N/A
5/22/2019	USDMXN	9:30:00 AM	19.013	19.02			N/A
5/22/2019	USDMXN	11:30:00 AM	19.013	19.019			N/A
5/22/2019	USDMXN	1:30:00 PM	18.982	18.989			N/A
5/22/2019	USDMXN	3:30:00 PM	19.008	19.006			N/A
5/22/2019	USDMXN.f	9:30:00 AM	19.0175	19.0156			N/A
5/22/2019	USDMXN.f	11:30:00 AM	19.0161	19.0154			N/A
5/22/2019	USDMXN.f	1:30:00 PM	18.9851	18.9849			N/A
5/22/2019	USDMXN.f	3:30:00 PM	19.0131	19.0024			N/A
5/22/2019	USDNOK	9:30:00 AM	8.7669	8.7741			N/A
5/22/2019	USDNOK	11:30:00 AM	8.7421	8.7496			N/A

5/22/2019	USDNOK	1:30:00 PM	8.7309	8.7386			N/A
5/22/2019	USDNOK	3:30:00 PM	8.7336	8.7401			N/A
5/22/2019	USDNOK.fx	9:30:00 AM	8.77067	8.76973			N/A
5/22/2019	USDNOK.fx	11:30:00 AM	8.74597	8.74513			N/A
5/22/2019	USDNOK.fx	1:30:00 PM	8.73507	8.73416			N/A
5/22/2019	USDNOK.fx	3:30:00 PM	8.73806	8.73545			N/A
5/22/2019	USDPLN	9:30:00 AM	3.8622	3.8634			N/A
5/22/2019	USDPLN	11:30:00 AM	3.8603	3.8615			N/A
5/22/2019	USDPLN	1:30:00 PM	3.855	3.8565			N/A
5/22/2019	USDPLN	3:30:00 PM	3.8522	3.8531			N/A
5/22/2019	USDPLN.fx	9:30:00 AM	3.86148	3.86403			N/A
5/22/2019	USDPLN.fx	11:30:00 AM	3.85948	3.86224			N/A
5/22/2019	USDPLN.fx	1:30:00 PM	3.85426	3.85723			N/A
5/22/2019	USDPLN.fx	3:30:00 PM	3.85145	3.85382			N/A
5/22/2019	USDRUB	9:30:00 AM					N/A
5/22/2019	USDRUB	11:30:00 AM	64.169	64.567			N/A
5/22/2019	USDRUB	1:30:00 PM	63.961	64.352			N/A
5/22/2019	USDRUB	3:30:00 PM	64.069	64.451			N/A
5/22/2019	USDSEK	9:30:00 AM	9.6534	9.6543			N/A
5/22/2019	USDSEK	11:30:00 AM	9.6385	9.6423			N/A
5/22/2019	USDSEK	1:30:00 PM	9.6264	9.6306			N/A
5/22/2019	USDSEK	3:30:00 PM	9.6324	9.6333			N/A
5/22/2019	USDSEK.fx	9:30:00 AM	9.65595	9.65226			N/A
5/22/2019	USDSEK.fx	11:30:00 AM	9.64105	9.6402			N/A
5/22/2019	USDSEK.fx	1:30:00 PM	9.62901	9.6287			N/A
5/22/2019	USDSEK.fx	3:30:00 PM	9.63506	9.6312			N/A
5/22/2019	USDSGD	9:30:00 AM	1.3803	1.3805			N/A
5/22/2019	USDSGD	11:30:00 AM	1.3786	1.3789			N/A
5/22/2019	USDSGD	1:30:00 PM	1.3779	1.3782			N/A
5/22/2019	USDSGD	3:30:00 PM	1.3783	1.3786			N/A
5/22/2019	USDSGD.fx	9:30:00 AM	1.38029	1.38051			N/A
5/22/2019	USDSGD.fx	11:30:00 AM	1.37853	1.37893			N/A
5/22/2019	USDSGD.fx	1:30:00 PM	1.37779	1.37825			N/A
5/22/2019	USDSGD.fx	3:30:00 PM	1.37836	1.37862			N/A

5/22/2019	USDZAR	9:30:00 AM	14.4149	14.4286			N/A
5/22/2019	USDZAR	11:30:00 AM	14.358	14.3721			N/A
5/22/2019	USDZAR	1:30:00 PM	14.34	14.3499			N/A
5/22/2019	USDZAR	3:30:00 PM	14.3735	14.3832			N/A
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5/22/2019	USDZAR.fx	11:30:00 AM					N/A
5/22/2019	USDZAR.fx	1:30:00 PM					N/A
5/22/2019	USDZAR.fx	3:30:00 PM					N/A
5/22/2019	XAUUSD	9:30:00 AM	1273.06	1273.37			N/A
5/22/2019	XAUUSD	11:30:00 AM	1273.91	1274.21			N/A
5/22/2019	XAUUSD	1:30:00 PM	1274.01	1274.34			N/A
5/22/2019	XAUUSD	3:30:00 PM	1276.92	1276.8			N/A
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5/22/2019	ZARJPY	11:30:00 AM	7.67	7.69			N/A
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5/22/2019	ZARJPY	3:30:00 PM	7.66	7.69			N/A
5/22/2019	ZARJPY.fx	9:30:00 AM	7.66	7.662			N/A
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5/22/2019	ZARJPY.fx	1:30:00 PM	7.701	7.701			N/A
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5/23/2019	#ZNGA	1:30:00 PM					N/A
5/23/2019	#ZNGA	3:30:00 PM					N/A
5/23/2019	AUDCAD	9:30:00 AM	0.92412	0.92468			N/A
5/23/2019	AUDCAD	11:30:00 AM	0.9243	0.92498			N/A
5/23/2019	AUDCAD	1:30:00 PM	0.92511	0.92557			N/A
5/23/2019	AUDCAD	3:30:00 PM	0.92599	0.9265			N/A
5/23/2019	AUDCAD.fx	9:30:00 AM	0.92445	0.92432			N/A
5/23/2019	AUDCAD.fx	11:30:00 AM	0.92462	0.92464			N/A
5/23/2019	AUDCAD.fx	1:30:00 PM	0.92545	0.92521			N/A
5/23/2019	AUDCAD.fx	3:30:00 PM	0.92634	0.92615			N/A
5/23/2019	AUDCHF	9:30:00 AM	0.69296	0.69361			N/A
5/23/2019	AUDCHF	11:30:00 AM	0.693	0.6937			N/A
5/23/2019	AUDCHF	1:30:00 PM	0.69264	0.69334			N/A
5/23/2019	AUDCHF	3:30:00 PM	0.69247	0.69306			N/A

5/23/2019	AUDCHF.fx	9:30:00 AM	0.6933	0.69326			N/A
5/23/2019	AUDCHF.fx	11:30:00 AM	0.69335	0.69335			N/A
5/23/2019	AUDCHF.fx	1:30:00 PM	0.693	0.69298			N/A
5/23/2019	AUDCHF.fx	3:30:00 PM	0.69282	0.69271			N/A
5/23/2019	AUDCZK	9:30:00 AM	15.89	15.907			N/A
5/23/2019	AUDCZK	11:30:00 AM	15.908	15.925			N/A
5/23/2019	AUDCZK	1:30:00 PM	15.903	15.919			N/A
5/23/2019	AUDCZK	3:30:00 PM	15.915	15.929			N/A
5/23/2019	AUDDKK	9:30:00 AM	4.6018	4.6063			N/A
5/23/2019	AUDDKK	11:30:00 AM	4.6046	4.6094			N/A
5/23/2019	AUDDKK	1:30:00 PM	4.6042	4.6087			N/A
5/23/2019	AUDDKK	3:30:00 PM	4.6084	4.613			N/A
5/23/2019	AUDHKD	9:30:00 AM	5.3909	5.3941			N/A
5/23/2019	AUDHKD	11:30:00 AM	5.3888	5.3921			N/A
5/23/2019	AUDHKD	1:30:00 PM	5.3881	5.3914			N/A
5/23/2019	AUDHKD	3:30:00 PM	5.3946	5.3969			N/A
5/23/2019	AUDHUF	9:30:00 AM	200.98	201.14			N/A
5/23/2019	AUDHUF	11:30:00 AM	201.44	201.68			N/A
5/23/2019	AUDHUF	1:30:00 PM	201.49	201.73			N/A
5/23/2019	AUDHUF	3:30:00 PM	201.64	201.77			N/A
5/23/2019	AUDJPY	9:30:00 AM	75.805	75.869			N/A
5/23/2019	AUDJPY	11:30:00 AM	75.664	75.71			N/A
5/23/2019	AUDJPY	1:30:00 PM	75.559	75.623			N/A
5/23/2019	AUDJPY	3:30:00 PM	75.614	75.661			N/A
5/23/2019	AUDJPY.fx	9:30:00 AM	75.839	75.834			N/A
5/23/2019	AUDJPY.fx	11:30:00 AM	75.698	75.674			N/A
5/23/2019	AUDJPY.fx	1:30:00 PM	75.594	75.587			N/A
5/23/2019	AUDJPY.fx	3:30:00 PM	75.649	75.628			N/A
5/23/2019	AUDMXN	9:30:00 AM	13.0709	13.0769			N/A
5/23/2019	AUDMXN	11:30:00 AM	13.0591	13.0654			N/A
5/23/2019	AUDMXN	1:30:00 PM	13.085	13.0935			N/A
5/23/2019	AUDMXN	3:30:00 PM	13.0689	13.0752			N/A
5/23/2019	AUDNOK	9:30:00 AM	6.0212	6.0255			N/A
5/23/2019	AUDNOK	11:30:00 AM	6.0153	6.0194			N/A

5/23/2019	AUDNOK	1:30:00 PM	6.0161	6.0207			N/A
5/23/2019	AUDNOK	3:30:00 PM	6.019	6.0229			N/A
5/23/2019	AUDNOK.fx	9:30:00 AM	6.0228	6.0238			N/A
5/23/2019	AUDNOK.fx	11:30:00 AM	6.0169	6.0176			N/A
5/23/2019	AUDNOK.fx	1:30:00 PM	6.0177	6.019			N/A
5/23/2019	AUDNOK.fx	3:30:00 PM	6.0206	6.0212			N/A
5/23/2019	AUDNZD	9:30:00 AM	1.05846	1.05927			N/A
5/23/2019	AUDNZD	11:30:00 AM	1.05826	1.0591			N/A
5/23/2019	AUDNZD	1:30:00 PM	1.05868	1.05953			N/A
5/23/2019	AUDNZD	3:30:00 PM	1.05872	1.05955			N/A
5/23/2019	AUDNZD.fx	9:30:00 AM	1.05889	1.05882			N/A
5/23/2019	AUDNZD.fx	11:30:00 AM	1.05869	1.05866			N/A
5/23/2019	AUDNZD.fx	1:30:00 PM	1.05913	1.05908			N/A
5/23/2019	AUDNZD.fx	3:30:00 PM	1.05918	1.05913			N/A
5/23/2019	AUDPLN	9:30:00 AM	2.6528	2.6559			N/A
5/23/2019	AUDPLN	11:30:00 AM	2.6572	2.6604			N/A
5/23/2019	AUDPLN	1:30:00 PM	2.6565	2.6591			N/A
5/23/2019	AUDPLN	3:30:00 PM	2.6569	2.6601			N/A
5/23/2019	AUDSEK	9:30:00 AM	6.6257	6.6285			N/A
5/23/2019	AUDSEK	11:30:00 AM	6.6197	6.6227			N/A
5/23/2019	AUDSEK	1:30:00 PM	6.6267	6.6298			N/A
5/23/2019	AUDSEK	3:30:00 PM	6.6284	6.6314			N/A
5/23/2019	AUDSEK.fx	9:30:00 AM	6.6211	6.633			N/A
5/23/2019	AUDSEK.fx	11:30:00 AM	6.6153	6.6268			N/A
5/23/2019	AUDSEK.fx	1:30:00 PM	6.6221	6.6342			N/A
5/23/2019	AUDSEK.fx	3:30:00 PM	6.6239	6.6357			N/A
5/23/2019	AUDSGD	9:30:00 AM	0.9488	0.9491			N/A
5/23/2019	AUDSGD	11:30:00 AM	0.9492	0.9495			N/A
5/23/2019	AUDSGD	1:30:00 PM	0.9493	0.9495			N/A
5/23/2019	AUDSGD	3:30:00 PM	0.95	0.9502			N/A
5/23/2019	AUDSGD.fx	9:30:00 AM	0.94893	0.94893			N/A
5/23/2019	AUDSGD.fx	11:30:00 AM	0.94931	0.94933			N/A
5/23/2019	AUDSGD.fx	1:30:00 PM	0.94935	0.94938			N/A
5/23/2019	AUDSGD.fx	3:30:00 PM	0.95009	0.95008			N/A

5/23/2019	AUDUSD	9:30:00 AM	0.68738	0.6874			N/A
5/23/2019	AUDUSD	11:30:00 AM	0.68681	0.68691			N/A
5/23/2019	AUDUSD	1:30:00 PM	0.68684	0.68683			N/A
5/23/2019	AUDUSD	3:30:00 PM	0.68777	0.68769			N/A
5/23/2019	AUDUSD.fx	9:30:00 AM	0.68743	0.68734			N/A
5/23/2019	AUDUSD.fx	11:30:00 AM	0.68686	0.68685			N/A
5/23/2019	AUDUSD.fx	1:30:00 PM	0.68689	0.68677			N/A
5/23/2019	AUDUSD.fx	3:30:00 PM	0.68783	0.68765			N/A
5/23/2019	AUDZAR	9:30:00 AM	9.9002	9.9048			N/A
5/23/2019	AUDZAR	11:30:00 AM	9.9208	9.9348			N/A
5/23/2019	AUDZAR	1:30:00 PM	9.9295	9.9373			N/A
5/23/2019	AUDZAR	3:30:00 PM	9.9222	9.9345			N/A
5/23/2019	AUS200.i	9:30:00 AM					N/A
5/23/2019	AUS200.i	11:30:00 AM	6478.5	6481.5			N/A
5/23/2019	AUS200.i	1:30:00 PM	6474	6477.5			N/A
5/23/2019	AUS200.i	3:30:00 PM	6477.2	6478.5			N/A
5/23/2019	BCHUSD	9:30:00 AM	390.96	391.46			N/A
5/23/2019	BCHUSD	11:30:00 AM	383.46	384.73			N/A
5/23/2019	BCHUSD	1:30:00 PM	391.09	392.32			N/A
5/23/2019	BCHUSD	3:30:00 PM	392.16	393.69			N/A
5/23/2019	CADCHF	9:30:00 AM	0.74963	0.75028			N/A
5/23/2019	CADCHF	11:30:00 AM	0.74949	0.75019			N/A
5/23/2019	CADCHF	1:30:00 PM	0.74859	0.74918			N/A
5/23/2019	CADCHF	3:30:00 PM	0.74773	0.74818			N/A
5/23/2019	CADCHF.fx	9:30:00 AM	0.74997	0.74994			N/A
5/23/2019	CADCHF.fx	11:30:00 AM	0.74984	0.74983			N/A
5/23/2019	CADCHF.fx	1:30:00 PM	0.74894	0.74882			N/A
5/23/2019	CADCHF.fx	3:30:00 PM	0.74806	0.74782			N/A
5/23/2019	CADCZK	9:30:00 AM	17.194	17.21			N/A
5/23/2019	CADCZK	11:30:00 AM	17.206	17.223			N/A
5/23/2019	CADCZK	1:30:00 PM	17.19	17.203			N/A
5/23/2019	CADCZK	3:30:00 PM	17.186	17.2			N/A
5/23/2019	CADDDKK	9:30:00 AM	4.979	4.982			N/A
5/23/2019	CADDDKK	11:30:00 AM					N/A

5/23/2019	CADDDKK	1:30:00 PM	4.977	4.981			N/A
5/23/2019	CADDDKK	3:30:00 PM	4.976	4.98			N/A
5/23/2019	CADHKD	9:30:00 AM	5.8331	5.837			N/A
5/23/2019	CADHKD	11:30:00 AM	5.8284	5.8322			N/A
5/23/2019	CADHKD	1:30:00 PM	5.823	5.8264			N/A
5/23/2019	CADHKD	3:30:00 PM	5.8241	5.828			N/A
5/23/2019	CADHUF	9:30:00 AM	217.5	217.57			N/A
5/23/2019	CADHUF	11:30:00 AM	217.92	218.09			N/A
5/23/2019	CADHUF	1:30:00 PM	217.82	217.96			N/A
5/23/2019	CADHUF	3:30:00 PM	217.74	217.85			N/A
5/23/2019	CADJPY	9:30:00 AM	82.006	82.073			N/A
5/23/2019	CADJPY	11:30:00 AM	81.836	81.876			N/A
5/23/2019	CADJPY	1:30:00 PM	81.658	81.712			N/A
5/23/2019	CADJPY	3:30:00 PM	81.641	81.693			N/A
5/23/2019	CADJPY.fx	9:30:00 AM	82.04	82.038			N/A
5/23/2019	CADJPY.fx	11:30:00 AM	81.869	81.842			N/A
5/23/2019	CADJPY.fx	1:30:00 PM	81.691	81.677			N/A
5/23/2019	CADJPY.fx	3:30:00 PM	81.676	81.66			N/A
5/23/2019	CADMXN	9:30:00 AM	14.1419	14.1487			N/A
5/23/2019	CADMXN	11:30:00 AM	14.1236	14.1333			N/A
5/23/2019	CADMXN	1:30:00 PM	14.1402	14.1507			N/A
5/23/2019	CADMXN	3:30:00 PM	14.1102	14.121			N/A
5/23/2019	CADNOK	9:30:00 AM	6.5115	6.5141			N/A
5/23/2019	CADNOK	11:30:00 AM	6.504	6.5082			N/A
5/23/2019	CADNOK	1:30:00 PM	6.5009	6.5042			N/A
5/23/2019	CADNOK	3:30:00 PM	6.4966	6.4998			N/A
5/23/2019	CADPLN	9:30:00 AM	2.8694	2.8706			N/A
5/23/2019	CADPLN	11:30:00 AM	2.8741	2.876			N/A
5/23/2019	CADPLN	1:30:00 PM	2.871	2.8722			N/A
5/23/2019	CADPLN	3:30:00 PM	2.8685	2.8698			N/A
5/23/2019	CADSEK	9:30:00 AM	7.1653	7.1677			N/A
5/23/2019	CADSEK	11:30:00 AM	7.1568	7.1606			N/A
5/23/2019	CADSEK	1:30:00 PM	7.1603	7.162			N/A
5/23/2019	CADSEK	3:30:00 PM	7.1547	7.1575			N/A

5/23/2019	CADSGD	9:30:00 AM	1.0258	1.0261			N/A
5/23/2019	CADSGD	11:30:00 AM	1.0261	1.0264			N/A
5/23/2019	CADSGD	1:30:00 PM	1.0251	1.0254			N/A
5/23/2019	CADSGD	3:30:00 PM					N/A
5/23/2019	CADZAR	9:30:00 AM	10.7125	10.7163			N/A
5/23/2019	CADZAR	11:30:00 AM	10.7307	10.7457			N/A
5/23/2019	CADZAR	1:30:00 PM	10.7301	10.7395			N/A
5/23/2019	CADZAR	3:30:00 PM	10.7135	10.7288			N/A
5/23/2019	CHFCZK	9:30:00 AM	22.931	22.948			N/A
5/23/2019	CHFCZK	11:30:00 AM	22.951	22.968			N/A
5/23/2019	CHFCZK	1:30:00 PM	22.957	22.974			N/A
5/23/2019	CHFCZK	3:30:00 PM	22.982	22.998			N/A
5/23/2019	CHFDKK	9:30:00 AM	6.639	6.642			N/A
5/23/2019	CHFDKK	11:30:00 AM	6.643	6.646			N/A
5/23/2019	CHFDKK	1:30:00 PM	6.646	6.649			N/A
5/23/2019	CHFDKK	3:30:00 PM	6.654	6.657			N/A
5/23/2019	CHFDKK.fx	9:30:00 AM	6.638	6.6439			N/A
5/23/2019	CHFDKK.fx	11:30:00 AM	6.6414	6.6471			N/A
5/23/2019	CHFDKK.fx	1:30:00 PM	6.6441	6.6502			N/A
5/23/2019	CHFDKK.fx	3:30:00 PM	6.6525	6.6577			N/A
5/23/2019	CHFHKD	9:30:00 AM	7.7798	7.7827			N/A
5/23/2019	CHFHKD	11:30:00 AM	7.7737	7.7776			N/A
5/23/2019	CHFHKD	1:30:00 PM	7.7777	7.781			N/A
5/23/2019	CHFHKD	3:30:00 PM	7.7901	7.7911			N/A
5/23/2019	CHFHUF	9:30:00 AM	289.97	290.26			N/A
5/23/2019	CHFHUF	11:30:00 AM	290.58	290.95			N/A
5/23/2019	CHFHUF	1:30:00 PM	290.8	291.19			N/A
5/23/2019	CHFHUF	3:30:00 PM	291.1	291.34			N/A
5/23/2019	CHFJPY	9:30:00 AM	109.361	109.423			N/A
5/23/2019	CHFJPY	11:30:00 AM	109.145	109.178			N/A
5/23/2019	CHFJPY	1:30:00 PM	109.044	109.111			N/A
5/23/2019	CHFJPY	3:30:00 PM	109.171	109.196			N/A
5/23/2019	CHFJPY.fx	9:30:00 AM	109.393	109.389			N/A
5/23/2019	CHFJPY.fx	11:30:00 AM	109.178	109.142			N/A

5/23/2019	CHFJPY.fx	1:30:00 PM	109.078	109.076			N/A
5/23/2019	CHFJPY.fx	3:30:00 PM	109.204	109.162			N/A
5/23/2019	CHFMXN	9:30:00 AM	18.8572	18.8696			N/A
5/23/2019	CHFMXN	11:30:00 AM	18.8376	18.8507			N/A
5/23/2019	CHFMXN	1:30:00 PM	18.8851	18.8991			N/A
5/23/2019	CHFMXN	3:30:00 PM	18.8692	18.8784			N/A
5/23/2019	CHFNOK	9:30:00 AM	8.6847	8.6913			N/A
5/23/2019	CHFNOK	11:30:00 AM	8.6757	8.6814			N/A
5/23/2019	CHFNOK	1:30:00 PM	8.6811	8.6884			N/A
5/23/2019	CHFNOK	3:30:00 PM	8.6872	8.6945			N/A
5/23/2019	CHFNOK.fx	9:30:00 AM	8.68818	8.6879			N/A
5/23/2019	CHFNOK.fx	11:30:00 AM	8.67925	8.6777			N/A
5/23/2019	CHFNOK.fx	1:30:00 PM	8.68466	8.6848			N/A
5/23/2019	CHFNOK.fx	3:30:00 PM	8.6908	8.69094			N/A
5/23/2019	CHFPLN	9:30:00 AM	3.8273	3.8304			N/A
5/23/2019	CHFPLN	11:30:00 AM	3.8332	3.8362			N/A
5/23/2019	CHFPLN	1:30:00 PM	3.8342	3.8365			N/A
5/23/2019	CHFPLN	3:30:00 PM	3.836	3.8383			N/A
5/23/2019	CHFPLN.fx	9:30:00 AM	3.82484	3.83269			N/A
5/23/2019	CHFPLN.fx	11:30:00 AM	3.83072	3.83865			N/A
5/23/2019	CHFPLN.fx	1:30:00 PM	3.83184	3.83873			N/A
5/23/2019	CHFPLN.fx	3:30:00 PM	3.83356	3.84075			N/A
5/23/2019	CHFSEK	9:30:00 AM	9.555	9.5591			N/A
5/23/2019	CHFSEK	11:30:00 AM	9.5462	9.5491			N/A
5/23/2019	CHFSEK	1:30:00 PM	9.5616	9.5656			N/A
5/23/2019	CHFSEK	3:30:00 PM	9.5669	9.5699			N/A
5/23/2019	CHFSGD	9:30:00 AM	1.3686	1.369			N/A
5/23/2019	CHFSGD	11:30:00 AM	1.3691	1.3693			N/A
5/23/2019	CHFSGD	1:30:00 PM	1.3698	1.3702			N/A
5/23/2019	CHFSGD	3:30:00 PM	1.3714	1.3715			N/A
5/23/2019	CHFSGD.fx	9:30:00 AM	1.3688	1.36882			N/A
5/23/2019	CHFSGD.fx	11:30:00 AM	1.36924	1.36912			N/A
5/23/2019	CHFSGD.fx	1:30:00 PM	1.36994	1.36999			N/A
5/23/2019	CHFSGD.fx	3:30:00 PM	1.37163	1.37127			N/A

5/23/2019	CHFZAR	9:30:00 AM	14.2887	14.2879			N/A
5/23/2019	CHFZAR	11:30:00 AM	14.3161	14.3282			N/A
5/23/2019	CHFZAR	1:30:00 PM	14.3357	14.3396			N/A
5/23/2019	CHFZAR	3:30:00 PM	14.3309	14.3397			N/A
5/23/2019	CZKJPY	9:30:00 AM					N/A
5/23/2019	CZKJPY	11:30:00 AM	4.755	4.757			N/A
5/23/2019	CZKJPY	1:30:00 PM					N/A
5/23/2019	CZKJPY	3:30:00 PM					N/A
5/23/2019	DAX30.i	9:30:00 AM	12062.58	12062.58			N/A
5/23/2019	DAX30.i	11:30:00 AM	11979.08	11972.08			N/A
5/23/2019	DAX30.i	1:30:00 PM	11946.33	11941.08			N/A
5/23/2019	DAX30.i	3:30:00 PM	11977.08	11964.08			N/A
5/23/2019	DJ30.i	9:30:00 AM					N/A
5/23/2019	DJ30.i	11:30:00 AM					N/A
5/23/2019	DJ30.i	1:30:00 PM					N/A
5/23/2019	DJ30.i	3:30:00 PM					N/A
5/23/2019	DKKJPY	9:30:00 AM	16.47	16.49			N/A
5/23/2019	DKKJPY	11:30:00 AM	16.43	16.45			N/A
5/23/2019	DKKJPY	1:30:00 PM					N/A
5/23/2019	DKKJPY	3:30:00 PM					N/A
5/23/2019	EURAUD	9:30:00 AM	1.62123	1.62157			N/A
5/23/2019	EURAUD	11:30:00 AM	1.6202	1.62056			N/A
5/23/2019	EURAUD	1:30:00 PM	1.62037	1.62074			N/A
5/23/2019	EURAUD	3:30:00 PM	1.61905	1.61938			N/A
5/23/2019	EURAUD.fx	9:30:00 AM	1.62143	1.62136			N/A
5/23/2019	EURAUD.fx	11:30:00 AM	1.62041	1.62031			N/A
5/23/2019	EURAUD.fx	1:30:00 PM	1.62057	1.62053			N/A
5/23/2019	EURAUD.fx	3:30:00 PM	1.61925	1.61915			N/A
5/23/2019	EURCAD	9:30:00 AM	1.49901	1.49977			N/A
5/23/2019	EURCAD	11:30:00 AM	1.49845	1.49923			N/A
5/23/2019	EURCAD	1:30:00 PM	1.49985	1.50044			N/A
5/23/2019	EURCAD	3:30:00 PM	1.50005	1.50063			N/A
5/23/2019	EURCAD.fx	9:30:00 AM	1.49942	1.49934			N/A
5/23/2019	EURCAD.fx	11:30:00 AM	1.49887	1.49882			N/A

5/23/2019	EURCAD.fx	1:30:00 PM	1.50027	1.50001			N/A
5/23/2019	EURCAD.fx	3:30:00 PM	1.50047	1.50023			N/A
5/23/2019	EURCHF	9:30:00 AM	1.12447	1.12454			N/A
5/23/2019	EURCHF	11:30:00 AM	1.12386	1.12394			N/A
5/23/2019	EURCHF	1:30:00 PM	1.12342	1.12352			N/A
5/23/2019	EURCHF	3:30:00 PM	1.12221	1.12214			N/A
5/23/2019	EURCHF.fx	9:30:00 AM	1.12452	1.12448			N/A
5/23/2019	EURCHF.fx	11:30:00 AM	1.12392	1.12389			N/A
5/23/2019	EURCHF.fx	1:30:00 PM	1.12346	1.12346			N/A
5/23/2019	EURCHF.fx	3:30:00 PM	1.12227	1.12207			N/A
5/23/2019	EURCZK	9:30:00 AM					N/A
5/23/2019	EURCZK	11:30:00 AM					N/A
5/23/2019	EURCZK	1:30:00 PM	25.778	25.816			N/A
5/23/2019	EURCZK	3:30:00 PM	25.776	25.814			N/A
5/23/2019	EURDKK	9:30:00 AM	7.4657	7.4669			N/A
5/23/2019	EURDKK	11:30:00 AM	7.4661	7.4673			N/A
5/23/2019	EURDKK	1:30:00 PM	7.4666	7.4678			N/A
5/23/2019	EURDKK	3:30:00 PM	7.4668	7.468			N/A
5/23/2019	EURGBP	9:30:00 AM	0.88225	0.88205			N/A
5/23/2019	EURGBP	11:30:00 AM	0.88289	0.88291			N/A
5/23/2019	EURGBP	1:30:00 PM	0.88127	0.88128			N/A
5/23/2019	EURGBP	3:30:00 PM	0.88105	0.88101			N/A
5/23/2019	EURGBP.fx	9:30:00 AM	0.88229	0.882			N/A
5/23/2019	EURGBP.fx	11:30:00 AM	0.88293	0.88285			N/A
5/23/2019	EURGBP.fx	1:30:00 PM	0.8813	0.88123			N/A
5/23/2019	EURGBP.fx	3:30:00 PM	0.88107	0.88096			N/A
5/23/2019	EURHKD	9:30:00 AM	8.7478	8.7524			N/A
5/23/2019	EURHKD	11:30:00 AM	8.7368	8.7416			N/A
5/23/2019	EURHKD	1:30:00 PM	8.7376	8.7417			N/A
5/23/2019	EURHKD	3:30:00 PM	8.7416	8.7449			N/A
5/23/2019	EURHKD.fx	9:30:00 AM	8.75063	8.74955			N/A
5/23/2019	EURHKD.fx	11:30:00 AM	8.73955	8.73864			N/A
5/23/2019	EURHKD.fx	1:30:00 PM	8.74046	8.73881			N/A
5/23/2019	EURHKD.fx	3:30:00 PM	8.74439	8.74219			N/A

5/23/2019	EURHUF	9:30:00 AM	326.03	326.55			N/A
5/23/2019	EURHUF	11:30:00 AM	326.49	327.13			N/A
5/23/2019	EURHUF	1:30:00 PM	326.64	327.25			N/A
5/23/2019	EURHUF	3:30:00 PM	326.62	327.33			N/A
5/23/2019	EURHUF.fx	9:30:00 AM	326.283	326.468			N/A
5/23/2019	EURHUF.fx	11:30:00 AM	326.781	326.948			N/A
5/23/2019	EURHUF.fx	1:30:00 PM	326.929	327.108			N/A
5/23/2019	EURHUF.fx	3:30:00 PM	326.88	327.04			N/A
5/23/2019	EURJPY	9:30:00 AM	123.007	123.01			N/A
5/23/2019	EURJPY	11:30:00 AM	122.709	122.669			N/A
5/23/2019	EURJPY	1:30:00 PM	122.546	122.547			N/A
5/23/2019	EURJPY	3:30:00 PM	122.53	122.511			N/A
5/23/2019	EURJPY.fx	9:30:00 AM	123.009	123.006			N/A
5/23/2019	EURJPY.fx	11:30:00 AM	122.712	122.664			N/A
5/23/2019	EURJPY.fx	1:30:00 PM	122.549	122.542			N/A
5/23/2019	EURJPY.fx	3:30:00 PM	122.534	122.508			N/A
5/23/2019	EURMXN	9:30:00 AM	21.2086	21.2224			N/A
5/23/2019	EURMXN	11:30:00 AM	21.176	21.1876			N/A
5/23/2019	EURMXN	1:30:00 PM	21.2169	21.235			N/A
5/23/2019	EURMXN	3:30:00 PM	21.1747	21.1916			N/A
5/23/2019	EURMXN.fx	9:30:00 AM	21.2181	21.2138			N/A
5/23/2019	EURMXN.fx	11:30:00 AM	21.1847	21.1786			N/A
5/23/2019	EURMXN.fx	1:30:00 PM	21.2256	21.2263			N/A
5/23/2019	EURMXN.fx	3:30:00 PM	21.1847	21.1822			N/A
5/23/2019	EURNOK	9:30:00 AM	9.7642	9.7751			N/A
5/23/2019	EURNOK	11:30:00 AM	9.7489	9.7593			N/A
5/23/2019	EURNOK	1:30:00 PM	9.7512	9.7625			N/A
5/23/2019	EURNOK	3:30:00 PM	9.7471	9.7581			N/A
5/23/2019	EURNOK.fx	9:30:00 AM	9.76945	9.76978			N/A
5/23/2019	EURNOK.fx	11:30:00 AM	9.75435	9.75368			N/A
5/23/2019	EURNOK.fx	1:30:00 PM	9.75674	9.75706			N/A
5/23/2019	EURNOK.fx	3:30:00 PM	9.75281	9.7526			N/A
5/23/2019	EURNZD	9:30:00 AM	1.71706	1.7178			N/A
5/23/2019	EURNZD	11:30:00 AM	1.71577	1.71649			N/A

5/23/2019	EURNZD	1:30:00 PM	1.71659	1.7174			N/A
5/23/2019	EURNZD	3:30:00 PM	1.71535	1.71601			N/A
5/23/2019	EURNZD.fx	9:30:00 AM	1.71747	1.71739			N/A
5/23/2019	EURNZD.fx	11:30:00 AM	1.71619	1.71608			N/A
5/23/2019	EURNZD.fx	1:30:00 PM	1.71702	1.71695			N/A
5/23/2019	EURNZD.fx	3:30:00 PM	1.71578	1.71559			N/A
5/23/2019	EURPLN	9:30:00 AM	4.3037	4.3071			N/A
5/23/2019	EURPLN	11:30:00 AM	4.3083	4.3114			N/A
5/23/2019	EURPLN	1:30:00 PM	4.3076	4.3102			N/A
5/23/2019	EURPLN	3:30:00 PM	4.3045	4.3075			N/A
5/23/2019	EURPLN.fx	9:30:00 AM	4.30317	4.30772			N/A
5/23/2019	EURPLN.fx	11:30:00 AM	4.30768	4.31192			N/A
5/23/2019	EURPLN.fx	1:30:00 PM	4.30707	4.31068			N/A
5/23/2019	EURPLN.fx	3:30:00 PM	4.30392	4.30822			N/A
5/23/2019	EURRUB	9:30:00 AM					N/A
5/23/2019	EURRUB	11:30:00 AM	71.437	71.871			N/A
5/23/2019	EURRUB	1:30:00 PM	71.716	72.14			N/A
5/23/2019	EURRUB	3:30:00 PM	71.751	72.178			N/A
5/23/2019	EURSEK	9:30:00 AM	10.7466	10.751			N/A
5/23/2019	EURSEK	11:30:00 AM	10.7305	10.7342			N/A
5/23/2019	EURSEK	1:30:00 PM	10.7439	10.7476			N/A
5/23/2019	EURSEK	3:30:00 PM	10.7371	10.7409			N/A
5/23/2019	EURSEK.fx	9:30:00 AM	10.74821	10.74914			N/A
5/23/2019	EURSEK.fx	11:30:00 AM	10.73238	10.73231			N/A
5/23/2019	EURSEK.fx	1:30:00 PM	10.74564	10.74592			N/A
5/23/2019	EURSEK.fx	3:30:00 PM	10.73919	10.73892			N/A
5/23/2019	EURSGD	9:30:00 AM	1.5388	1.5396			N/A
5/23/2019	EURSGD	11:30:00 AM	1.5385	1.5392			N/A
5/23/2019	EURSGD	1:30:00 PM	1.5387	1.5395			N/A
5/23/2019	EURSGD	3:30:00 PM	1.5387	1.5394			N/A
5/23/2019	EURSGD.fx	9:30:00 AM	1.53915	1.5392			N/A
5/23/2019	EURSGD.fx	11:30:00 AM	1.53893	1.53875			N/A
5/23/2019	EURSGD.fx	1:30:00 PM	1.53905	1.53914			N/A
5/23/2019	EURSGD.fx	3:30:00 PM	1.53908	1.53895			N/A

5/23/2019	EURUSD	9:30:00 AM	1.1148	1.11481			N/A
5/23/2019	EURUSD	11:30:00 AM	1.11324	1.1133	10	10	N/A
5/23/2019	EURUSD	1:30:00 PM	1.11336	1.11332			N/A
5/23/2019	EURUSD	3:30:00 PM	1.11393	1.11378			N/A
5/23/2019	EURUSD.fx	9:30:00 AM	1.11501	1.11491			N/A
5/23/2019	EURUSD.fx	11:30:00 AM	1.11345	1.11339			N/A
5/23/2019	EURUSD.fx	1:30:00 PM	1.11356	1.11341			N/A
5/23/2019	EURUSD.fx	3:30:00 PM	1.11414	1.11388			N/A
5/23/2019	EURZAR	9:30:00 AM	16.0708	16.0762			N/A
5/23/2019	EURZAR	11:30:00 AM	16.0921	16.1088			N/A
5/23/2019	EURZAR	1:30:00 PM	16.106	16.1163			N/A
5/23/2019	EURZAR	3:30:00 PM	16.0844	16.0999			N/A
5/23/2019	EURZAR.fx	9:30:00 AM	16.07021	16.07675			N/A
5/23/2019	EURZAR.fx	11:30:00 AM	16.0915	16.10939			N/A
5/23/2019	EURZAR.fx	1:30:00 PM	16.10575	16.11704			N/A
5/23/2019	EURZAR.fx	3:30:00 PM	16.08341	16.10073			N/A
5/23/2019	GBPAUD	9:30:00 AM	1.83859	1.83884			N/A
5/23/2019	GBPAUD	11:30:00 AM	1.8357	1.83627			N/A
5/23/2019	GBPAUD	1:30:00 PM	1.83937	1.83985			N/A
5/23/2019	GBPAUD	3:30:00 PM	1.83818	1.83892			N/A
5/23/2019	GBPAUD.fx	9:30:00 AM	1.83897	1.83846			N/A
5/23/2019	GBPAUD.fx	11:30:00 AM	1.83612	1.83588			N/A
5/23/2019	GBPAUD.fx	1:30:00 PM	1.83978	1.83945			N/A
5/23/2019	GBPAUD.fx	3:30:00 PM	1.83859	1.83859			N/A
5/23/2019	GBPCAD	9:30:00 AM	1.69972	1.69976			N/A
5/23/2019	GBPCAD	11:30:00 AM	1.69733	1.69793			N/A
5/23/2019	GBPCAD	1:30:00 PM	1.70208	1.70265			N/A
5/23/2019	GBPCAD	3:30:00 PM	1.70275	1.70312			N/A
5/23/2019	GBPCAD.fx	9:30:00 AM	1.7001	1.69937			N/A
5/23/2019	GBPCAD.fx	11:30:00 AM	1.69772	1.69754			N/A
5/23/2019	GBPCAD.fx	1:30:00 PM	1.70248	1.70226			N/A
5/23/2019	GBPCAD.fx	3:30:00 PM	1.70314	1.70283			N/A
5/23/2019	GBPCHF	9:30:00 AM	1.2747	1.27469			N/A
5/23/2019	GBPCHF	11:30:00 AM	1.27285	1.27315			N/A

5/23/2019	GBPCHE	1:30:00 PM	1.27467	1.27498			N/A
5/23/2019	GBPCHE	3:30:00 PM	1.27361	1.27384			N/A
5/23/2019	GBPCHE.fx	9:30:00 AM	1.27487	1.27446			N/A
5/23/2019	GBPCHE.fx	11:30:00 AM	1.27305	1.27295			N/A
5/23/2019	GBPCHE.fx	1:30:00 PM	1.27487	1.27478			N/A
5/23/2019	GBPCHE.fx	3:30:00 PM	1.2738	1.27363			N/A
5/23/2019	GBPCZK	9:30:00 AM	29.229	29.243			N/A
5/23/2019	GBPCZK	11:30:00 AM	29.212	29.232			N/A
5/23/2019	GBPCZK	1:30:00 PM	29.262	29.282			N/A
5/23/2019	GBPCZK	3:30:00 PM	29.268	29.284			N/A
5/23/2019	GBPDKK	9:30:00 AM	8.461	8.47			N/A
5/23/2019	GBPDKK	11:30:00 AM	8.454	8.464			N/A
5/23/2019	GBPDKK	1:30:00 PM	8.469	8.48			N/A
5/23/2019	GBPDKK	3:30:00 PM	8.473	8.482			N/A
5/23/2019	GBPDKK.fx	9:30:00 AM	8.4602	8.4704			N/A
5/23/2019	GBPDKK.fx	11:30:00 AM	8.4521	8.4641			N/A
5/23/2019	GBPDKK.fx	1:30:00 PM	8.4678	8.4801			N/A
5/23/2019	GBPDKK.fx	3:30:00 PM	8.4711	8.483			N/A
5/23/2019	GBPHKD	9:30:00 AM	9.9159	9.9172			N/A
5/23/2019	GBPHKD	11:30:00 AM	9.8943	9.8982			N/A
5/23/2019	GBPHKD	1:30:00 PM	9.9133	9.9175			N/A
5/23/2019	GBPHKD	3:30:00 PM	9.9196	9.9214			N/A
5/23/2019	GBPHUF	9:30:00 AM	369.59	369.92			N/A
5/23/2019	GBPHUF	11:30:00 AM	369.85	370.3			N/A
5/23/2019	GBPHUF	1:30:00 PM	370.67	371.12			N/A
5/23/2019	GBPHUF	3:30:00 PM	370.73	370.98			N/A
5/23/2019	GBPJPY	9:30:00 AM	139.451	139.431	100	100	N/A
5/23/2019	GBPJPY	11:30:00 AM	138.975	138.948			N/A
5/23/2019	GBPJPY	1:30:00 PM	139.048	139.068			N/A
5/23/2019	GBPJPY	3:30:00 PM	139.063	139.056			N/A
5/23/2019	GBPJPY.fx	9:30:00 AM	139.47	139.412			N/A
5/23/2019	GBPJPY.fx	11:30:00 AM	138.995	138.928			N/A
5/23/2019	GBPJPY.fx	1:30:00 PM	139.067	139.048			N/A
5/23/2019	GBPJPY.fx	3:30:00 PM	139.082	139.042			N/A

5/23/2019	GBPMXN	9:30:00 AM	24.0391	24.047			N/A
5/23/2019	GBPMXN	11:30:00 AM	23.9814	23.9892			N/A
5/23/2019	GBPMXN	1:30:00 PM	24.0742	24.0876			N/A
5/23/2019	GBPMXN	3:30:00 PM	24.0307	24.0387			N/A
5/23/2019	GBPNOK	9:30:00 AM	11.072	11.0783			N/A
5/23/2019	GBPNOK	11:30:00 AM	11.0437	11.0526			N/A
5/23/2019	GBPNOK	1:30:00 PM	11.0669	11.0766			N/A
5/23/2019	GBPNOK	3:30:00 PM	11.0648	11.0748			N/A
5/23/2019	GBPNOK.fx	9:30:00 AM	11.07669	11.0736			N/A
5/23/2019	GBPNOK.fx	11:30:00 AM	11.04865	11.04771			N/A
5/23/2019	GBPNOK.fx	1:30:00 PM	11.07184	11.0716			N/A
5/23/2019	GBPNOK.fx	3:30:00 PM	11.07005	11.06962			N/A
5/23/2019	GBPNZD	9:30:00 AM	1.94696	1.94699			N/A
5/23/2019	GBPNZD	11:30:00 AM	1.9435	1.94403			N/A
5/23/2019	GBPNZD	1:30:00 PM	1.94806	1.94858			N/A
5/23/2019	GBPNZD	3:30:00 PM	1.94704	1.94746			N/A
5/23/2019	GBPNZD.fx	9:30:00 AM	1.94731	1.94663			N/A
5/23/2019	GBPNZD.fx	11:30:00 AM	1.94386	1.94367			N/A
5/23/2019	GBPNZD.fx	1:30:00 PM	1.94843	1.94819			N/A
5/23/2019	GBPNZD.fx	3:30:00 PM	1.94741	1.94723			N/A
5/23/2019	GBPPLN	9:30:00 AM	4.8805	4.8807			N/A
5/23/2019	GBPPLN	11:30:00 AM	4.8808	4.8822			N/A
5/23/2019	GBPPLN	1:30:00 PM	4.8892	4.8897			N/A
5/23/2019	GBPPLN	3:30:00 PM	4.8868	4.8882			N/A
5/23/2019	GBPPLN.fx	9:30:00 AM	4.8784	4.88288			N/A
5/23/2019	GBPPLN.fx	11:30:00 AM	4.87846	4.88437			N/A
5/23/2019	GBPPLN.fx	1:30:00 PM	4.88696	4.89179			N/A
5/23/2019	GBPPLN.fx	3:30:00 PM	4.88446	4.89065			N/A
5/23/2019	GBPSEK	9:30:00 AM	12.1826	12.1875			N/A
5/23/2019	GBPSEK	11:30:00 AM	12.1525	12.1596			N/A
5/23/2019	GBPSEK	1:30:00 PM	12.1904	12.1972			N/A
5/23/2019	GBPSEK	3:30:00 PM	12.185	12.1929			N/A
5/23/2019	GBPSEK.fx	9:30:00 AM	12.17898	12.19157			N/A
5/23/2019	GBPSEK.fx	11:30:00 AM	12.149	12.16321			N/A

5/23/2019	GBPSEK.fx	1:30:00 PM	12.18676	12.2008			N/A
5/23/2019	GBPSEK.fx	3:30:00 PM	12.18193	12.19708			N/A
5/23/2019	GBPSGD	9:30:00 AM	1.7447	1.7449			N/A
5/23/2019	GBPSGD	11:30:00 AM	1.7428	1.7431			N/A
5/23/2019	GBPSGD	1:30:00 PM	1.7462	1.7469			N/A
5/23/2019	GBPSGD	3:30:00 PM	1.7466	1.7469			N/A
5/23/2019	GBPSGD.fx	9:30:00 AM	1.74295	1.74674			N/A
5/23/2019	GBPSGD.fx	11:30:00 AM	1.74094	1.74492			N/A
5/23/2019	GBPSGD.fx	1:30:00 PM	1.74437	1.74865			N/A
5/23/2019	GBPSGD.fx	3:30:00 PM	1.74474	1.74885			N/A
5/23/2019	GBPUSD	9:30:00 AM	1.2642	1.26362	4900	4900	N/A
5/23/2019	GBPUSD	11:30:00 AM	1.26116	1.26104			N/A
5/23/2019	GBPUSD	1:30:00 PM	1.26364	1.26355			N/A
5/23/2019	GBPUSD	3:30:00 PM	1.26458	1.26422	100	100	N/A
5/23/2019	GBPUSD.fx	9:30:00 AM	1.26425	1.26356			N/A
5/23/2019	GBPUSD.fx	11:30:00 AM	1.26121	1.26099			N/A
5/23/2019	GBPUSD.fx	1:30:00 PM	1.26369	1.26348			N/A
5/23/2019	GBPUSD.fx	3:30:00 PM	1.26464	1.26413			N/A
5/23/2019	GBPZAR	9:30:00 AM	18.215	18.2304			N/A
5/23/2019	GBPZAR	11:30:00 AM	18.2245	18.2478			N/A
5/23/2019	GBPZAR	1:30:00 PM	18.273	18.2923			N/A
5/23/2019	GBPZAR	3:30:00 PM	18.2527	18.2788			N/A
5/23/2019	GBPZAR.fx	9:30:00 AM	18.2225	18.2221			N/A
5/23/2019	GBPZAR.fx	11:30:00 AM	18.2317	18.2409			N/A
5/23/2019	GBPZAR.fx	1:30:00 PM	18.2805	18.2846			N/A
5/23/2019	GBPZAR.fx	3:30:00 PM	18.2592	18.2717			N/A
5/23/2019	GOLD	9:30:00 AM	1274.04	1274.19			N/A
5/23/2019	GOLD	11:30:00 AM	1275.42	1275.59			N/A
5/23/2019	GOLD	1:30:00 PM	1276.58	1276.85			N/A
5/23/2019	GOLD	3:30:00 PM	1283.41	1282.61			N/A
5/23/2019	HKDJPY	9:30:00 AM	14.06	14.07			N/A
5/23/2019	HKDJPY	11:30:00 AM	14.04	14.05			N/A
5/23/2019	HKDJPY	1:30:00 PM					N/A
5/23/2019	HKDJPY	3:30:00 PM	14.01	14.02			N/A

5/23/2019	HKDJPY.fx	9:30:00 AM	14.054	14.061			N/A
5/23/2019	HKDJPY.fx	11:30:00 AM	14.036	14.039			N/A
5/23/2019	HKDJPY.fx	1:30:00 PM	14.018	14.024			N/A
5/23/2019	HKDJPY.fx	3:30:00 PM	14.012	14.016			N/A
5/23/2019	HUFJPY	9:30:00 AM	0.3772	0.3775			N/A
5/23/2019	HUFJPY	11:30:00 AM	0.3758	0.3761			N/A
5/23/2019	HUFJPY	1:30:00 PM	0.375	0.3753			N/A
5/23/2019	HUFJPY	3:30:00 PM	0.3751	0.3754			N/A
5/23/2019	JP225.i	9:30:00 AM	21095.83	21108.33			N/A
5/23/2019	JP225.i	11:30:00 AM	21013.33	21023.33			N/A
5/23/2019	JP225.i	1:30:00 PM	20943.33	20958.33			N/A
5/23/2019	JP225.i	3:30:00 PM	20955.83	20960.83			N/A
5/23/2019	MXNJPY	9:30:00 AM	5.8	5.81			N/A
5/23/2019	MXNJPY	11:30:00 AM					N/A
5/23/2019	MXNJPY	1:30:00 PM	5.76	5.78			N/A
5/23/2019	MXNJPY	3:30:00 PM	5.78	5.79			N/A
5/23/2019	NASDAQ.i	9:30:00 AM					N/A
5/23/2019	NASDAQ.i	11:30:00 AM					N/A
5/23/2019	NASDAQ.i	1:30:00 PM					N/A
5/23/2019	NASDAQ.i	3:30:00 PM					N/A
5/23/2019	NOKJPY	9:30:00 AM	12.58	12.61			N/A
5/23/2019	NOKJPY	11:30:00 AM	12.57	12.6			N/A
5/23/2019	NOKJPY	1:30:00 PM	12.55	12.58			N/A
5/23/2019	NOKJPY	3:30:00 PM	12.55	12.58			N/A
5/23/2019	NOKJPY.fx	9:30:00 AM	12.588	12.594			N/A
5/23/2019	NOKJPY.fx	11:30:00 AM	12.578	12.58			N/A
5/23/2019	NOKJPY.fx	1:30:00 PM	12.557	12.563			N/A
5/23/2019	NOKJPY.fx	3:30:00 PM	12.562	12.566			N/A
5/23/2019	NZDCAD	9:30:00 AM	0.87267	0.87333			N/A
5/23/2019	NZDCAD	11:30:00 AM	0.87304	0.87371			N/A
5/23/2019	NZDCAD	1:30:00 PM	0.87344	0.87397			N/A
5/23/2019	NZDCAD	3:30:00 PM	0.87421	0.87481			N/A
5/23/2019	NZDCAD.fx	9:30:00 AM	0.873	0.873			N/A
5/23/2019	NZDCAD.fx	11:30:00 AM	0.87338	0.87337			N/A

5/23/2019	NZDCAD.fx	1:30:00 PM	0.87377	0.87363			N/A
5/23/2019	NZDCAD.fx	3:30:00 PM	0.87455	0.87448			N/A
5/23/2019	NZDCHF	9:30:00 AM	0.65441	0.65508			N/A
5/23/2019	NZDCHF	11:30:00 AM	0.65456	0.65528			N/A
5/23/2019	NZDCHF	1:30:00 PM	0.65394	0.65465			N/A
5/23/2019	NZDCHF	3:30:00 PM	0.65378	0.65435			N/A
5/23/2019	NZDCHF.fx	9:30:00 AM	0.65475	0.65473			N/A
5/23/2019	NZDCHF.fx	11:30:00 AM	0.6549	0.65492			N/A
5/23/2019	NZDCHF.fx	1:30:00 PM	0.65429	0.65429			N/A
5/23/2019	NZDCHF.fx	3:30:00 PM	0.65411	0.654			N/A
5/23/2019	NZDCZK	9:30:00 AM	15.01	15.022			N/A
5/23/2019	NZDCZK	11:30:00 AM	15.027	15.039			N/A
5/23/2019	NZDCZK	1:30:00 PM	15.018	15.028			N/A
5/23/2019	NZDCZK	3:30:00 PM	15.028	15.04			N/A
5/23/2019	NZDDKK	9:30:00 AM	4.345	4.349			N/A
5/23/2019	NZDDKK	11:30:00 AM					N/A
5/23/2019	NZDDKK	1:30:00 PM					N/A
5/23/2019	NZDDKK	3:30:00 PM	4.351	4.354			N/A
5/23/2019	NZDHKD	9:30:00 AM	5.0916	5.0941			N/A
5/23/2019	NZDHKD	11:30:00 AM	5.0892	5.0921			N/A
5/23/2019	NZDHKD	1:30:00 PM	5.0873	5.0897			N/A
5/23/2019	NZDHKD	3:30:00 PM	5.0927	5.0951			N/A
5/23/2019	NZDHUF	9:30:00 AM	189.78	189.99			N/A
5/23/2019	NZDHUF	11:30:00 AM	190.23	190.52			N/A
5/23/2019	NZDHUF	1:30:00 PM	190.21	190.49			N/A
5/23/2019	NZDHUF	3:30:00 PM	190.32	190.54			N/A
5/23/2019	NZDJPY	9:30:00 AM	71.589	71.656			N/A
5/23/2019	NZDJPY	11:30:00 AM	71.468	71.517			N/A
5/23/2019	NZDJPY	1:30:00 PM	71.338	71.404			N/A
5/23/2019	NZDJPY	3:30:00 PM	71.385	71.446			N/A
5/23/2019	NZDJPY.fx	9:30:00 AM	71.62	71.623			N/A
5/23/2019	NZDJPY.fx	11:30:00 AM	71.499	71.484			N/A
5/23/2019	NZDJPY.fx	1:30:00 PM	71.369	71.371			N/A
5/23/2019	NZDJPY.fx	3:30:00 PM	71.416	71.414			N/A

5/23/2019	NZDMXN	9:30:00 AM	12.3451	12.3474			N/A
5/23/2019	NZDMXN	11:30:00 AM	12.3357	12.3392			N/A
5/23/2019	NZDMXN	1:30:00 PM	12.3554	12.36			N/A
5/23/2019	NZDMXN	3:30:00 PM	12.3388	12.343			N/A
5/23/2019	NZDNOK	9:30:00 AM	5.6833	5.6858			N/A
5/23/2019	NZDNOK	11:30:00 AM	5.6795	5.6827			N/A
5/23/2019	NZDNOK	1:30:00 PM	5.6786	5.6817			N/A
5/23/2019	NZDNOK	3:30:00 PM	5.6795	5.6817			N/A
5/23/2019	NZDPLN	9:30:00 AM	2.5046	2.5053			N/A
5/23/2019	NZDPLN	11:30:00 AM	2.5098	2.5113			N/A
5/23/2019	NZDPLN	1:30:00 PM	2.5082	2.509			N/A
5/23/2019	NZDPLN	3:30:00 PM	2.5079	2.5089			N/A
5/23/2019	NZDSEK	9:30:00 AM	6.2518	6.2581			N/A
5/23/2019	NZDSEK	11:30:00 AM	6.2477	6.2539			N/A
5/23/2019	NZDSEK	1:30:00 PM	6.2524	6.2586			N/A
5/23/2019	NZDSEK	3:30:00 PM	6.253	6.2597			N/A
5/23/2019	NZDSGD	9:30:00 AM	0.8959	0.8966			N/A
5/23/2019	NZDSGD	11:30:00 AM	0.8964	0.897			N/A
5/23/2019	NZDSGD	1:30:00 PM	0.8961	0.8967			N/A
5/23/2019	NZDSGD	3:30:00 PM	0.8968	0.8974			N/A
5/23/2019	NZDSGD.fx	9:30:00 AM	0.89593	0.8965			N/A
5/23/2019	NZDSGD.fx	11:30:00 AM	0.89643	0.89693			N/A
5/23/2019	NZDSGD.fx	1:30:00 PM	0.8961	0.89666			N/A
5/23/2019	NZDSGD.fx	3:30:00 PM	0.89677	0.8973			N/A
5/23/2019	NZDUSD	9:30:00 AM	0.64906	0.64916			N/A
5/23/2019	NZDUSD	11:30:00 AM	0.64867	0.64881			N/A
5/23/2019	NZDUSD	1:30:00 PM	0.64843	0.64847			N/A
5/23/2019	NZDUSD	3:30:00 PM	0.64925	0.6493			N/A
5/23/2019	NZDUSD.fx	9:30:00 AM	0.64913	0.64917			N/A
5/23/2019	NZDUSD.fx	11:30:00 AM	0.64875	0.64882			N/A
5/23/2019	NZDUSD.fx	1:30:00 PM	0.64852	0.64848			N/A
5/23/2019	NZDUSD.fx	3:30:00 PM	0.64933	0.64932			N/A
5/23/2019	NZDZAR	9:30:00 AM	9.3484	9.3546			N/A
5/23/2019	NZDZAR	11:30:00 AM	9.3687	9.3843			N/A

5/23/2019	NZDZAR	1:30:00 PM	9.3732	9.3833			N/A
5/23/2019	NZDZAR	3:30:00 PM	9.3656	9.3813			N/A
5/23/2019	SEKJPY	9:30:00 AM	11.44	11.45			N/A
5/23/2019	SEKJPY	11:30:00 AM	11.43	11.44			N/A
5/23/2019	SEKJPY	1:30:00 PM	11.4	11.41			N/A
5/23/2019	SEKJPY	3:30:00 PM	11.41	11.42			N/A
5/23/2019	SEKJPY.fx	9:30:00 AM	11.434	11.453			N/A
5/23/2019	SEKJPY.fx	11:30:00 AM	11.424	11.439			N/A
5/23/2019	SEKJPY.fx	1:30:00 PM	11.396	11.413			N/A
5/23/2019	SEKJPY.fx	3:30:00 PM	11.4	11.417			N/A
5/23/2019	SGDJPY	9:30:00 AM	79.91	79.91			N/A
5/23/2019	SGDJPY	11:30:00 AM	79.7	79.71			N/A
5/23/2019	SGDJPY	1:30:00 PM	79.64	79.62			N/A
5/23/2019	SGDJPY	3:30:00 PM	79.59	79.61			N/A
5/23/2019	SILVER	9:30:00 AM	14.27	14.64			N/A
5/23/2019	SILVER	11:30:00 AM	14.26	14.64			N/A
5/23/2019	SILVER	1:30:00 PM	14.28	14.65			N/A
5/23/2019	SILVER	3:30:00 PM	14.39	14.75			N/A
5/23/2019	SPX500.i	9:30:00 AM	2840.75	2841.8			N/A
5/23/2019	SPX500.i	11:30:00 AM	2835	2835.3			N/A
5/23/2019	SPX500.i	1:30:00 PM	2828.54	2829.3			N/A
5/23/2019	SPX500.i	3:30:00 PM	2831.38	2830.55			N/A
5/23/2019	UK100.i	9:30:00 AM	7298.77	7299.02			N/A
5/23/2019	UK100.i	11:30:00 AM	7273.36	7273.52			N/A
5/23/2019	UK100.i	1:30:00 PM	7233.52	7234.27			N/A
5/23/2019	UK100.i	3:30:00 PM	7247.36	7244.02			N/A
5/23/2019	USDCAD	9:30:00 AM	1.34487	1.34499			N/A
5/23/2019	USDCAD	11:30:00 AM	1.34626	1.3463			N/A
5/23/2019	USDCAD	1:30:00 PM	1.34743	1.34738			N/A
5/23/2019	USDCAD	3:30:00 PM	1.34691	1.34692			N/A
5/23/2019	USDCAD.fx	9:30:00 AM	1.34491	1.34496			N/A
5/23/2019	USDCAD.fx	11:30:00 AM	1.34628	1.34627			N/A
5/23/2019	USDCAD.fx	1:30:00 PM	1.34745	1.34734			N/A
5/23/2019	USDCAD.fx	3:30:00 PM	1.34694	1.34686			N/A

5/23/2019	USDCHF	9:30:00 AM	1.00854	1.00856			N/A
5/23/2019	USDCHF	11:30:00 AM	1.00937	1.00946			N/A
5/23/2019	USDCHF	1:30:00 PM	1.00894	1.00896			N/A
5/23/2019	USDCHF	3:30:00 PM	1.00747	1.00719			N/A
5/23/2019	USDCHF.fx	9:30:00 AM	1.00859	1.00849			N/A
5/23/2019	USDCHF.fx	11:30:00 AM	1.00942	1.00939			N/A
5/23/2019	USDCHF.fx	1:30:00 PM	1.00899	1.00889			N/A
5/23/2019	USDCHF.fx	3:30:00 PM	1.00751	1.00711			N/A
5/23/2019	USDCZK	9:30:00 AM	23.141	23.163			N/A
5/23/2019	USDCZK	11:30:00 AM	23.182	23.205			N/A
5/23/2019	USDCZK	1:30:00 PM	23.178	23.198			N/A
5/23/2019	USDCZK	3:30:00 PM	23.166	23.184			N/A
5/23/2019	USDCZK.fx	9:30:00 AM	23.15	23.1542			N/A
5/23/2019	USDCZK.fx	11:30:00 AM	23.191	23.196			N/A
5/23/2019	USDCZK.fx	1:30:00 PM	23.1872	23.188			N/A
5/23/2019	USDCZK.fx	3:30:00 PM	23.175	23.1742			N/A
5/23/2019	USDDKK	9:30:00 AM	6.6967	6.7002			N/A
5/23/2019	USDDKK	11:30:00 AM	6.7059	6.7095			N/A
5/23/2019	USDDKK	1:30:00 PM	6.7059	6.7089			N/A
5/23/2019	USDDKK	3:30:00 PM	6.7035	6.7062			N/A
5/23/2019	USDDKK.fx	9:30:00 AM	6.69735	6.69822			N/A
5/23/2019	USDDKK.fx	11:30:00 AM	6.70633	6.70744			N/A
5/23/2019	USDDKK.fx	1:30:00 PM	6.70644	6.70694			N/A
5/23/2019	USDDKK.fx	3:30:00 PM	6.70386	6.70395			N/A
5/23/2019	USDHKD	9:30:00 AM	7.8478	7.8481			N/A
5/23/2019	USDHKD	11:30:00 AM	7.8488	7.8487			N/A
5/23/2019	USDHKD	1:30:00 PM	7.8486	7.8491			N/A
5/23/2019	USDHKD	3:30:00 PM	7.8483	7.8485			N/A
5/23/2019	USDHKD.fx	9:30:00 AM	7.84772	7.8481			N/A
5/23/2019	USDHKD.fx	11:30:00 AM	7.84866	7.84919			N/A
5/23/2019	USDHKD.fx	1:30:00 PM	7.84863	7.8491			N/A
5/23/2019	USDHKD.fx	3:30:00 PM	7.84818	7.84869			N/A
5/23/2019	USDHUF	9:30:00 AM	292.55	292.95			N/A
5/23/2019	USDHUF	11:30:00 AM	293.35	293.8			N/A

5/23/2019	USDHUF	1:30:00 PM	293.47	293.9			N/A
5/23/2019	USDHUF	3:30:00 PM	293.3	293.7			N/A
5/23/2019	USDHUF.fx	9:30:00 AM	292.745	292.754			N/A
5/23/2019	USDHUF.fx	11:30:00 AM	293.554	293.587			N/A
5/23/2019	USDHUF.fx	1:30:00 PM	293.675	293.693			N/A
5/23/2019	USDHUF.fx	3:30:00 PM	293.493	293.495			N/A
5/23/2019	USDINR	9:30:00 AM	64.61	74.58			N/A
5/23/2019	USDINR	11:30:00 AM	64.75	74.73			N/A
5/23/2019	USDINR	1:30:00 PM					N/A
5/23/2019	USDINR	3:30:00 PM					N/A
5/23/2019	USDJPY	9:30:00 AM	110.324	110.33			N/A
5/23/2019	USDJPY	11:30:00 AM	110.204	110.177			N/A
5/23/2019	USDJPY	1:30:00 PM	110.055	110.054			N/A
5/23/2019	USDJPY	3:30:00 PM	109.996	109.987			N/A
5/23/2019	USDJPY.fx	9:30:00 AM	110.331	110.323			N/A
5/23/2019	USDJPY.fx	11:30:00 AM	110.208	110.17			N/A
5/23/2019	USDJPY.fx	1:30:00 PM	110.061	110.047			N/A
5/23/2019	USDJPY.fx	3:30:00 PM	110.002	109.98			N/A
5/23/2019	USDMXN	9:30:00 AM	19.027	19.028			N/A
5/23/2019	USDMXN	11:30:00 AM	19.023	19.026			N/A
5/23/2019	USDMXN	1:30:00 PM	19.059	19.064			N/A
5/23/2019	USDMXN	3:30:00 PM	19.012	19.019			N/A
5/23/2019	USDMXN.f	9:30:00 AM	19.031	19.0245			N/A
5/23/2019	USDMXN.f	11:30:00 AM	19.0263	19.022			N/A
5/23/2019	USDMXN.f	1:30:00 PM	19.0623	19.0605			N/A
5/23/2019	USDMXN.f	3:30:00 PM	19.0156	19.0154			N/A
5/23/2019	USDNOK	9:30:00 AM	8.7586	8.7669			N/A
5/23/2019	USDNOK	11:30:00 AM	8.7574	8.7639			N/A
5/23/2019	USDNOK	1:30:00 PM	8.7594	8.7662			N/A
5/23/2019	USDNOK	3:30:00 PM	8.752	8.7579			N/A
5/23/2019	USDNOK.fx	9:30:00 AM	8.76253	8.76263			N/A
5/23/2019	USDNOK.fx	11:30:00 AM	8.76127	8.75927			N/A
5/23/2019	USDNOK.fx	1:30:00 PM	8.76342	8.76164			N/A
5/23/2019	USDNOK.fx	3:30:00 PM	8.75612	8.75298			N/A

5/23/2019	USDPLN	9:30:00 AM	3.8609	3.8622			N/A
5/23/2019	USDPLN	11:30:00 AM	3.8701	3.8716			N/A
5/23/2019	USDPLN	1:30:00 PM	3.8696	3.8701			N/A
5/23/2019	USDPLN	3:30:00 PM	3.8651	3.8659			N/A
5/23/2019	USDPLN.fx	9:30:00 AM	3.86018	3.86289			N/A
5/23/2019	USDPLN.fx	11:30:00 AM	3.86925	3.87233			N/A
5/23/2019	USDPLN.fx	1:30:00 PM	3.86874	3.87072			N/A
5/23/2019	USDPLN.fx	3:30:00 PM	3.86429	3.86663			N/A
5/23/2019	USDRUB	9:30:00 AM					N/A
5/23/2019	USDRUB	11:30:00 AM	64.292	64.68			N/A
5/23/2019	USDRUB	1:30:00 PM	64.537	64.916			N/A
5/23/2019	USDRUB	3:30:00 PM	64.533	64.928			N/A
5/23/2019	USDSEK	9:30:00 AM	9.6383	9.6416			N/A
5/23/2019	USDSEK	11:30:00 AM	9.6371	9.6408			N/A
5/23/2019	USDSEK	1:30:00 PM	9.6489	9.6509			N/A
5/23/2019	USDSEK	3:30:00 PM	9.6386	9.6405			N/A
5/23/2019	USDSEK.fx	9:30:00 AM	9.64095	9.63969			N/A
5/23/2019	USDSEK.fx	11:30:00 AM	9.64003	9.63872			N/A
5/23/2019	USDSEK.fx	1:30:00 PM	9.65188	9.64904			N/A
5/23/2019	USDSEK.fx	3:30:00 PM	9.6411	9.63888			N/A
5/23/2019	USDSGD	9:30:00 AM	1.3804	1.3807			N/A
5/23/2019	USDSGD	11:30:00 AM	1.3819	1.3822			N/A
5/23/2019	USDSGD	1:30:00 PM	1.3821	1.3823			N/A
5/23/2019	USDSGD	3:30:00 PM	1.3812	1.3815			N/A
5/23/2019	USDSGD.fx	9:30:00 AM	1.38034	1.38071			N/A
5/23/2019	USDSGD.fx	11:30:00 AM	1.3819	1.38224			N/A
5/23/2019	USDSGD.fx	1:30:00 PM	1.38205	1.38237			N/A
5/23/2019	USDSGD.fx	3:30:00 PM	1.38127	1.38164			N/A
5/23/2019	USDZAR	9:30:00 AM	14.415	14.4188			N/A
5/23/2019	USDZAR	11:30:00 AM	14.4527	14.4677			N/A
5/23/2019	USDZAR	1:30:00 PM	14.4638	14.4719			N/A
5/23/2019	USDZAR	3:30:00 PM	14.4395	14.4511			N/A
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5/23/2019	USDZAR.fx	11:30:00 AM					N/A

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5/23/2019	USDZAR.fx	3:30:00 PM					N/A
5/23/2019	XAUUSD	9:30:00 AM	1274.04	1274.18			N/A
5/23/2019	XAUUSD	11:30:00 AM	1275.42	1275.56			N/A
5/23/2019	XAUUSD	1:30:00 PM	1276.58	1276.84			N/A
5/23/2019	XAUUSD	3:30:00 PM	1283.38	1282.61			N/A
5/23/2019	ZARJPY	9:30:00 AM	7.64	7.65			N/A
5/23/2019	ZARJPY	11:30:00 AM	7.6	7.62			N/A
5/23/2019	ZARJPY	1:30:00 PM	7.59	7.61			N/A
5/23/2019	ZARJPY	3:30:00 PM	7.6	7.61			N/A
5/23/2019	ZARJPY.fx	9:30:00 AM	7.651	7.651			N/A
5/23/2019	ZARJPY.fx	11:30:00 AM	7.618	7.621			N/A
5/23/2019	ZARJPY.fx	1:30:00 PM	7.606	7.605			N/A
5/23/2019	ZARJPY.fx	3:30:00 PM	7.613	7.614			N/A
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5/24/2019	AUDHUF	11:30:00 AM	200.87	201.05			N/A
5/24/2019	AUDHUF	1:30:00 PM	201.03	201.26			N/A
5/24/2019	AUDHUF	3:30:00 PM	200.75	200.88			N/A
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5/24/2019	AUDNZD	3:30:00 PM	1.05538	1.05627			N/A
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5/24/2019	AUDPLN	11:30:00 AM	2.649	2.6521			N/A
5/24/2019	AUDPLN	1:30:00 PM	2.6516	2.6546			N/A
5/24/2019	AUDPLN	3:30:00 PM	2.6501	2.6527			N/A
5/24/2019	AUDSEK	9:30:00 AM	6.6171	6.6178			N/A
5/24/2019	AUDSEK	11:30:00 AM	6.6168	6.62			N/A
5/24/2019	AUDSEK	1:30:00 PM	6.6065	6.6083			N/A
5/24/2019	AUDSEK	3:30:00 PM	6.603	6.6055			N/A
5/24/2019	AUDSEK.fx	9:30:00 AM	6.6124	6.6222			N/A
5/24/2019	AUDSEK.fx	11:30:00 AM	6.6123	6.6242			N/A
5/24/2019	AUDSEK.fx	1:30:00 PM	6.602	6.6127			N/A
5/24/2019	AUDSEK.fx	3:30:00 PM	6.5984	6.6096			N/A
5/24/2019	AUDSGD	9:30:00 AM	0.9498	0.9501			N/A
5/24/2019	AUDSGD	11:30:00 AM	0.9503	0.9505			N/A
5/24/2019	AUDSGD	1:30:00 PM	0.9506	0.9507			N/A
5/24/2019	AUDSGD	3:30:00 PM	0.951	0.9512			N/A
5/24/2019	AUDSGD.fx	9:30:00 AM	0.94991	0.94994			N/A
5/24/2019	AUDSGD.fx	11:30:00 AM	0.9504	0.95043			N/A
5/24/2019	AUDSGD.fx	1:30:00 PM	0.95071	0.95073			N/A
5/24/2019	AUDSGD.fx	3:30:00 PM	0.95111	0.95111			N/A
5/24/2019	AUDUSD	9:30:00 AM	0.68968	0.68969			N/A
5/24/2019	AUDUSD	11:30:00 AM	0.69015	0.69026			N/A
5/24/2019	AUDUSD	1:30:00 PM	0.69068	0.69074			N/A
5/24/2019	AUDUSD	3:30:00 PM	0.69103	0.69104			N/A
5/24/2019	AUDUSD.fx	9:30:00 AM	0.68974	0.68963			N/A
5/24/2019	AUDUSD.fx	11:30:00 AM	0.6902	0.6902			N/A

5/24/2019	AUDUSD.fx	1:30:00 PM	0.69074	0.69068			N/A
5/24/2019	AUDUSD.fx	3:30:00 PM	0.69108	0.691			N/A
5/24/2019	AUDZAR	9:30:00 AM	9.9298	9.9418			N/A
5/24/2019	AUDZAR	11:30:00 AM	9.9432	9.9561			N/A
5/24/2019	AUDZAR	1:30:00 PM	9.943	9.9552			N/A
5/24/2019	AUDZAR	3:30:00 PM	9.946	9.9582			N/A
5/24/2019	AUS200.i	9:30:00 AM					N/A
5/24/2019	AUS200.i	11:30:00 AM	6471.93	6474.13			N/A
5/24/2019	AUS200.i	1:30:00 PM	6478.53	6480.13			N/A
5/24/2019	AUS200.i	3:30:00 PM	6469.93	6471.83			N/A
5/24/2019	BCHUSD	9:30:00 AM	407.45	408.82			N/A
5/24/2019	BCHUSD	11:30:00 AM	423.19	423.73			N/A
5/24/2019	BCHUSD	1:30:00 PM	426.31	427.35			N/A
5/24/2019	BCHUSD	3:30:00 PM	423.66	423.22			N/A
5/24/2019	CADCHF	9:30:00 AM	0.74413	0.74482			N/A
5/24/2019	CADCHF	11:30:00 AM	0.74471	0.74542			N/A
5/24/2019	CADCHF	1:30:00 PM	0.74498	0.74565			N/A
5/24/2019	CADCHF	3:30:00 PM	0.74452	0.74503			N/A
5/24/2019	CADCHF.fx	9:30:00 AM	0.74449	0.74446			N/A
5/24/2019	CADCHF.fx	11:30:00 AM	0.74506	0.74506			N/A
5/24/2019	CADCHF.fx	1:30:00 PM	0.74532	0.74528			N/A
5/24/2019	CADCHF.fx	3:30:00 PM	0.74484	0.74469			N/A
5/24/2019	CADCZK	9:30:00 AM	17.127	17.14			N/A
5/24/2019	CADCZK	11:30:00 AM	17.146	17.163			N/A
5/24/2019	CADCZK	1:30:00 PM	17.135	17.15			N/A
5/24/2019	CADCZK	3:30:00 PM	17.125	17.132			N/A
5/24/2019	CADDDKK	9:30:00 AM					N/A
5/24/2019	CADDDKK	11:30:00 AM	4.959	4.963			N/A
5/24/2019	CADDDKK	1:30:00 PM	4.959	4.962			N/A
5/24/2019	CADDDKK	3:30:00 PM	4.956	4.958			N/A
5/24/2019	CADHKD	9:30:00 AM	5.826	5.8299			N/A
5/24/2019	CADHKD	11:30:00 AM	5.8321	5.8357			N/A
5/24/2019	CADHKD	1:30:00 PM	5.832	5.8354			N/A
5/24/2019	CADHKD	3:30:00 PM	5.831	5.8344			N/A

5/24/2019	CADHUF	9:30:00 AM	216.23	216.38			N/A
5/24/2019	CADHUF	11:30:00 AM	216.46	216.57			N/A
5/24/2019	CADHUF	1:30:00 PM	216.43	216.58			N/A
5/24/2019	CADHUF	3:30:00 PM	215.99	216.01			N/A
5/24/2019	CADJPY	9:30:00 AM	81.29	81.352			N/A
5/24/2019	CADJPY	11:30:00 AM	81.403	81.462			N/A
5/24/2019	CADJPY	1:30:00 PM	81.513	81.572			N/A
5/24/2019	CADJPY	3:30:00 PM	81.392	81.428			N/A
5/24/2019	CADJPY.fx	9:30:00 AM	81.323	81.317			N/A
5/24/2019	CADJPY.fx	11:30:00 AM	81.438	81.427			N/A
5/24/2019	CADJPY.fx	1:30:00 PM	81.546	81.536			N/A
5/24/2019	CADJPY.fx	3:30:00 PM	81.425	81.395			N/A
5/24/2019	CADMXN	9:30:00 AM	14.1096	14.1205			N/A
5/24/2019	CADMXN	11:30:00 AM	14.1182	14.1295			N/A
5/24/2019	CADMXN	1:30:00 PM	14.1318	14.1406			N/A
5/24/2019	CADMXN	3:30:00 PM	14.1469	14.1559			N/A
5/24/2019	CADNOK	9:30:00 AM	6.4849	6.4875			N/A
5/24/2019	CADNOK	11:30:00 AM	6.4804	6.4832			N/A
5/24/2019	CADNOK	1:30:00 PM	6.4756	6.4798			N/A
5/24/2019	CADNOK	3:30:00 PM	6.4705	6.4721			N/A
5/24/2019	CADPLN	9:30:00 AM	2.8524	2.8533			N/A
5/24/2019	CADPLN	11:30:00 AM	2.8535	2.8547			N/A
5/24/2019	CADPLN	1:30:00 PM	2.8542	2.8559			N/A
5/24/2019	CADPLN	3:30:00 PM	2.8502	2.8512			N/A
5/24/2019	CADSEK	9:30:00 AM	7.1242	7.125			N/A
5/24/2019	CADSEK	11:30:00 AM	7.1256	7.1295			N/A
5/24/2019	CADSEK	1:30:00 PM	7.1084	7.1102			N/A
5/24/2019	CADSEK	3:30:00 PM	7.1005	7.1024			N/A
5/24/2019	CADSGD	9:30:00 AM	1.0224	1.0227			N/A
5/24/2019	CADSGD	11:30:00 AM	1.023	1.0233			N/A
5/24/2019	CADSGD	1:30:00 PM	1.0223	1.0227			N/A
5/24/2019	CADSGD	3:30:00 PM	1.0224	1.0227			N/A
5/24/2019	CADZAR	9:30:00 AM	10.697	10.7074			N/A
5/24/2019	CADZAR	11:30:00 AM	10.7128	10.7271			N/A

5/24/2019	CADZAR	1:30:00 PM	10.7024	10.7163			N/A
5/24/2019	CADZAR	3:30:00 PM	10.6997	10.7133			N/A
5/24/2019	CHFCZK	9:30:00 AM	23.008	23.019			N/A
5/24/2019	CHFCZK	11:30:00 AM	23.016	23.033			N/A
5/24/2019	CHFCZK	1:30:00 PM	22.994	23.01			N/A
5/24/2019	CHFCZK	3:30:00 PM	22.994	23.001			N/A
5/24/2019	CHFDKK	9:30:00 AM	6.649	6.651			N/A
5/24/2019	CHFDKK	11:30:00 AM	6.656	6.659			N/A
5/24/2019	CHFDKK	1:30:00 PM	6.653	6.657			N/A
5/24/2019	CHFDKK	3:30:00 PM	6.654	6.657			N/A
5/24/2019	CHFDKK.fx	9:30:00 AM	6.6475	6.6521			N/A
5/24/2019	CHFDKK.fx	11:30:00 AM	6.6545	6.6608			N/A
5/24/2019	CHFDKK.fx	1:30:00 PM	6.6517	6.6577			N/A
5/24/2019	CHFDKK.fx	3:30:00 PM	6.6525	6.6581			N/A
5/24/2019	CHFHKD	9:30:00 AM	7.8262	7.8302			N/A
5/24/2019	CHFHKD	11:30:00 AM	7.8287	7.8316			N/A
5/24/2019	CHFHKD	1:30:00 PM	7.8255	7.829			N/A
5/24/2019	CHFHKD	3:30:00 PM	7.8304	7.8321			N/A
5/24/2019	CHFHUF	9:30:00 AM	290.37	290.69			N/A
5/24/2019	CHFHUF	11:30:00 AM	290.45	290.77			N/A
5/24/2019	CHFHUF	1:30:00 PM	290.32	290.69			N/A
5/24/2019	CHFHUF	3:30:00 PM	289.98	290.15			N/A
5/24/2019	CHFJPY	9:30:00 AM	109.202	109.263			N/A
5/24/2019	CHFJPY	11:30:00 AM	109.278	109.319			N/A
5/24/2019	CHFJPY	1:30:00 PM	109.369	109.436			N/A
5/24/2019	CHFJPY	3:30:00 PM	109.285	109.338			N/A
5/24/2019	CHFJPY.fx	9:30:00 AM	109.235	109.228			N/A
5/24/2019	CHFJPY.fx	11:30:00 AM	109.313	109.285			N/A
5/24/2019	CHFJPY.fx	1:30:00 PM	109.401	109.401			N/A
5/24/2019	CHFJPY.fx	3:30:00 PM	109.317	109.305			N/A
5/24/2019	CHFMXN	9:30:00 AM	18.9526	18.968			N/A
5/24/2019	CHFMXN	11:30:00 AM	18.9495	18.9648			N/A
5/24/2019	CHFMXN	1:30:00 PM	18.9617	18.9718			N/A
5/24/2019	CHFMXN	3:30:00 PM	18.9959	19.0078			N/A

5/24/2019	CHFNOK	9:30:00 AM	8.7107	8.7154			N/A
5/24/2019	CHFNOK	11:30:00 AM	8.6986	8.7064			N/A
5/24/2019	CHFNOK	1:30:00 PM	8.6883	8.6956			N/A
5/24/2019	CHFNOK	3:30:00 PM	8.6881	8.6952			N/A
5/24/2019	CHFNOK.fx	9:30:00 AM	8.71408	8.7119			N/A
5/24/2019	CHFNOK.fx	11:30:00 AM	8.70218	8.70278			N/A
5/24/2019	CHFNOK.fx	1:30:00 PM	8.69196	8.6917			N/A
5/24/2019	CHFNOK.fx	3:30:00 PM	8.69141	8.6916			N/A
5/24/2019	CHFPLN	9:30:00 AM	3.8312	3.8322			N/A
5/24/2019	CHFPLN	11:30:00 AM	3.8304	3.8336			N/A
5/24/2019	CHFPLN	1:30:00 PM	3.8295	3.8326			N/A
5/24/2019	CHFPLN	3:30:00 PM	3.8277	3.8296			N/A
5/24/2019	CHFPLN.fx	9:30:00 AM	3.82884	3.83448			N/A
5/24/2019	CHFPLN.fx	11:30:00 AM	3.82794	3.83595			N/A
5/24/2019	CHFPLN.fx	1:30:00 PM	3.82726	3.83481			N/A
5/24/2019	CHFPLN.fx	3:30:00 PM	3.82514	3.83203			N/A
5/24/2019	CHFSEK	9:30:00 AM	9.5695	9.5697			N/A
5/24/2019	CHFSEK	11:30:00 AM	9.5641	9.569			N/A
5/24/2019	CHFSEK	1:30:00 PM	9.5392	9.5417			N/A
5/24/2019	CHFSEK	3:30:00 PM	9.533	9.5369			N/A
5/24/2019	CHFSGD	9:30:00 AM	1.3737	1.3741			N/A
5/24/2019	CHFSGD	11:30:00 AM	1.3739	1.3742			N/A
5/24/2019	CHFSGD	1:30:00 PM	1.3726	1.373			N/A
5/24/2019	CHFSGD	3:30:00 PM	1.3733	1.3735			N/A
5/24/2019	CHFSGD.fx	9:30:00 AM	1.37386	1.37387			N/A
5/24/2019	CHFSGD.fx	11:30:00 AM	1.37403	1.37403			N/A
5/24/2019	CHFSGD.fx	1:30:00 PM	1.37282	1.37282			N/A
5/24/2019	CHFSGD.fx	3:30:00 PM	1.3734	1.3733			N/A
5/24/2019	CHFZAR	9:30:00 AM	14.3723	14.3768			N/A
5/24/2019	CHFZAR	11:30:00 AM	14.3822	14.3928			N/A
5/24/2019	CHFZAR	1:30:00 PM	14.3641	14.3731			N/A
5/24/2019	CHFZAR	3:30:00 PM	14.3708	14.3811			N/A
5/24/2019	CZKJPY	9:30:00 AM	4.746	4.749			N/A
5/24/2019	CZKJPY	11:30:00 AM	4.746	4.75			N/A

5/24/2019	CZKJPY	1:30:00 PM	4.756	4.759			N/A
5/24/2019	CZKJPY	3:30:00 PM	4.754	4.756			N/A
5/24/2019	DAX30.i	9:30:00 AM	11996.67	11996.17			N/A
5/24/2019	DAX30.i	11:30:00 AM	12049.67	12044.42			N/A
5/24/2019	DAX30.i	1:30:00 PM	12046.77	12043.67			N/A
5/24/2019	DAX30.i	3:30:00 PM	12041.67	12038.17			N/A
5/24/2019	DJ30.i	9:30:00 AM					N/A
5/24/2019	DJ30.i	11:30:00 AM					N/A
5/24/2019	DJ30.i	1:30:00 PM					N/A
5/24/2019	DJ30.i	3:30:00 PM					N/A
5/24/2019	DKKJPY	9:30:00 AM					N/A
5/24/2019	DKKJPY	11:30:00 AM					N/A
5/24/2019	DKKJPY	1:30:00 PM					N/A
5/24/2019	DKKJPY	3:30:00 PM	16.43	16.44			N/A
5/24/2019	EURAUD	9:30:00 AM	1.6235	1.62372			N/A
5/24/2019	EURAUD	11:30:00 AM	1.62089	1.62124			N/A
5/24/2019	EURAUD	1:30:00 PM	1.61959	1.61994			N/A
5/24/2019	EURAUD	3:30:00 PM	1.61971	1.61986			N/A
5/24/2019	EURAUD.fx	9:30:00 AM	1.62371	1.6235			N/A
5/24/2019	EURAUD.fx	11:30:00 AM	1.62108	1.621			N/A
5/24/2019	EURAUD.fx	1:30:00 PM	1.61979	1.61972			N/A
5/24/2019	EURAUD.fx	3:30:00 PM	1.61987	1.61964			N/A
5/24/2019	EURCAD	9:30:00 AM	1.50815	1.50871			N/A
5/24/2019	EURCAD	11:30:00 AM	1.50514	1.5059			N/A
5/24/2019	EURCAD	1:30:00 PM	1.50528	1.50608			N/A
5/24/2019	EURCAD	3:30:00 PM	1.50633	1.50686			N/A
5/24/2019	EURCAD.fx	9:30:00 AM	1.50858	1.50828			N/A
5/24/2019	EURCAD.fx	11:30:00 AM	1.50556	1.50548			N/A
5/24/2019	EURCAD.fx	1:30:00 PM	1.50571	1.50564			N/A
5/24/2019	EURCAD.fx	3:30:00 PM	1.50673	1.50647			N/A
5/24/2019	EURCHF	9:30:00 AM	1.12308	1.12295			N/A
5/24/2019	EURCHF	11:30:00 AM	1.12162	1.12178			N/A
5/24/2019	EURCHF	1:30:00 PM	1.12216	1.12225			N/A
5/24/2019	EURCHF	3:30:00 PM	1.12207	1.12208			N/A

5/24/2019	EURCHF.fx	9:30:00 AM	1.12313	1.12288			N/A
5/24/2019	EURCHF.fx	11:30:00 AM	1.12167	1.12172			N/A
5/24/2019	EURCHF.fx	1:30:00 PM	1.12222	1.12218			N/A
5/24/2019	EURCHF.fx	3:30:00 PM	1.12211	1.12203			N/A
5/24/2019	EURCZK	9:30:00 AM	25.822	25.86			N/A
5/24/2019	EURCZK	11:30:00 AM	25.804	25.843			N/A
5/24/2019	EURCZK	1:30:00 PM	25.789	25.828			N/A
5/24/2019	EURCZK	3:30:00 PM	25.787	25.817			N/A
5/24/2019	EURDKK	9:30:00 AM	7.4667	7.4675			N/A
5/24/2019	EURDKK	11:30:00 AM	7.466	7.4673			N/A
5/24/2019	EURDKK	1:30:00 PM	7.467	7.4674			N/A
5/24/2019	EURDKK	3:30:00 PM	7.4662	7.4668			N/A
5/24/2019	EURGBP	9:30:00 AM	0.88327	0.88321			N/A
5/24/2019	EURGBP	11:30:00 AM	0.88292	0.88285			N/A
5/24/2019	EURGBP	1:30:00 PM	0.88065	0.88069			N/A
5/24/2019	EURGBP	3:30:00 PM	0.88389	0.8838			N/A
5/24/2019	EURGBP.fx	9:30:00 AM	0.88331	0.88315			N/A
5/24/2019	EURGBP.fx	11:30:00 AM	0.88291	0.88281			N/A
5/24/2019	EURGBP.fx	1:30:00 PM	0.88069	0.88064			N/A
5/24/2019	EURGBP.fx	3:30:00 PM	0.88392	0.88376			N/A
5/24/2019	EURHKD	9:30:00 AM	8.791	8.7928			N/A
5/24/2019	EURHKD	11:30:00 AM	8.782	8.7863			N/A
5/24/2019	EURHKD	1:30:00 PM	8.7816	8.7866			N/A
5/24/2019	EURHKD	3:30:00 PM	8.7867	8.7902			N/A
5/24/2019	EURHKD.fx	9:30:00 AM	8.79379	8.78999			N/A
5/24/2019	EURHKD.fx	11:30:00 AM	8.78485	8.78336			N/A
5/24/2019	EURHKD.fx	1:30:00 PM	8.78442	8.78375			N/A
5/24/2019	EURHKD.fx	3:30:00 PM	8.78951	8.78752			N/A
5/24/2019	EURHUF	9:30:00 AM	326.02	326.66			N/A
5/24/2019	EURHUF	11:30:00 AM	325.8	326.5			N/A
5/24/2019	EURHUF	1:30:00 PM	325.74	326.33			N/A
5/24/2019	EURHUF	3:30:00 PM	325.35	325.82			N/A
5/24/2019	EURHUF.fx	9:30:00 AM	326.312	326.38			N/A
5/24/2019	EURHUF.fx	11:30:00 AM	326.071	326.234			N/A

5/24/2019	EURHUF.fx	1:30:00 PM	326.021	326.205			N/A
5/24/2019	EURHUF.fx	3:30:00 PM	325.62	325.531			N/A
5/24/2019	EURJPY	9:30:00 AM	122.687	122.654			N/A
5/24/2019	EURJPY	11:30:00 AM	122.613	122.588			N/A
5/24/2019	EURJPY	1:30:00 PM	122.773	122.77			N/A
5/24/2019	EURJPY	3:30:00 PM	122.664	122.641			N/A
5/24/2019	EURJPY.fx	9:30:00 AM	122.69	122.65			N/A
5/24/2019	EURJPY.fx	11:30:00 AM	122.615	122.584			N/A
5/24/2019	EURJPY.fx	1:30:00 PM	122.775	122.766			N/A
5/24/2019	EURJPY.fx	3:30:00 PM	122.666	122.638			N/A
5/24/2019	EURMXN	9:30:00 AM	21.2883	21.3049			N/A
5/24/2019	EURMXN	11:30:00 AM	21.2597	21.2783			N/A
5/24/2019	EURMXN	1:30:00 PM	21.2824	21.2965			N/A
5/24/2019	EURMXN	3:30:00 PM	21.3196	21.3355			N/A
5/24/2019	EURMXN.fx	9:30:00 AM	21.2971	21.2958			N/A
5/24/2019	EURMXN.fx	11:30:00 AM	21.2684	21.2699			N/A
5/24/2019	EURMXN.fx	1:30:00 PM	21.2908	21.2881			N/A
5/24/2019	EURMXN.fx	3:30:00 PM	21.3283	21.3265			N/A
5/24/2019	EURNOK	9:30:00 AM	9.7789	9.7902			N/A
5/24/2019	EURNOK	11:30:00 AM	9.7555	9.7674			N/A
5/24/2019	EURNOK	1:30:00 PM	9.7484	9.76			N/A
5/24/2019	EURNOK	3:30:00 PM	9.7466	9.7585			N/A
5/24/2019	EURNOK.fx	9:30:00 AM	9.78445	9.78463			N/A
5/24/2019	EURNOK.fx	11:30:00 AM	9.76115	9.7617			N/A
5/24/2019	EURNOK.fx	1:30:00 PM	9.75386	9.75416			N/A
5/24/2019	EURNOK.fx	3:30:00 PM	9.75202	9.75303			N/A
5/24/2019	EURNZD	9:30:00 AM	1.71537	1.71619			N/A
5/24/2019	EURNZD	11:30:00 AM	1.7132	1.71395			N/A
5/24/2019	EURNZD	1:30:00 PM	1.71019	1.71105			N/A
5/24/2019	EURNZD	3:30:00 PM	1.71052	1.71111			N/A
5/24/2019	EURNZD.fx	9:30:00 AM	1.71578	1.71574			N/A
5/24/2019	EURNZD.fx	11:30:00 AM	1.71365	1.71349			N/A
5/24/2019	EURNZD.fx	1:30:00 PM	1.71062	1.71062			N/A
5/24/2019	EURNZD.fx	3:30:00 PM	1.7109	1.71067			N/A

5/24/2019	EURPLN	9:30:00 AM	4.3021	4.3038			N/A
5/24/2019	EURPLN	11:30:00 AM	4.2967	4.2999			N/A
5/24/2019	EURPLN	1:30:00 PM	4.2975	4.3007			N/A
5/24/2019	EURPLN	3:30:00 PM	4.2947	4.2969			N/A
5/24/2019	EURPLN.fx	9:30:00 AM	4.30137	4.30452			N/A
5/24/2019	EURPLN.fx	11:30:00 AM	4.29607	4.30042			N/A
5/24/2019	EURPLN.fx	1:30:00 PM	4.29707	4.30122			N/A
5/24/2019	EURPLN.fx	3:30:00 PM	4.29406	4.29752			N/A
5/24/2019	EURRUB	9:30:00 AM					N/A
5/24/2019	EURRUB	11:30:00 AM	71.922	72.355			N/A
5/24/2019	EURRUB	1:30:00 PM	71.909	72.349			N/A
5/24/2019	EURRUB	3:30:00 PM	71.81	72.236			N/A
5/24/2019	EURSEK	9:30:00 AM	10.7466	10.7493			N/A
5/24/2019	EURSEK	11:30:00 AM	10.7301	10.735			N/A
5/24/2019	EURSEK	1:30:00 PM	10.7062	10.707			N/A
5/24/2019	EURSEK	3:30:00 PM	10.6986	10.7032			N/A
5/24/2019	EURSEK.fx	9:30:00 AM	10.74818	10.74763			N/A
5/24/2019	EURSEK.fx	11:30:00 AM	10.73184	10.73334			N/A
5/24/2019	EURSEK.fx	1:30:00 PM	10.70812	10.70519			N/A
5/24/2019	EURSEK.fx	3:30:00 PM	10.70012	10.70149			N/A
5/24/2019	EURSGD	9:30:00 AM	1.5427	1.5431			N/A
5/24/2019	EURSGD	11:30:00 AM	1.5409	1.5416			N/A
5/24/2019	EURSGD	1:30:00 PM	1.5402	1.541			N/A
5/24/2019	EURSGD	3:30:00 PM	1.5408	1.5414			N/A
5/24/2019	EURSGD.fx	9:30:00 AM	1.5431	1.5427			N/A
5/24/2019	EURSGD.fx	11:30:00 AM	1.54131	1.5412			N/A
5/24/2019	EURSGD.fx	1:30:00 PM	1.54055	1.54057			N/A
5/24/2019	EURSGD.fx	3:30:00 PM	1.54112	1.54101			N/A
5/24/2019	EURUSD	9:30:00 AM	1.12018	1.11987		300	N/A
5/24/2019	EURUSD	11:30:00 AM	1.11911	1.11909	800	800	N/A
5/24/2019	EURUSD	1:30:00 PM	1.11901	1.11909			N/A
5/24/2019	EURUSD	3:30:00 PM	1.1196	1.11946	10	10	N/A
5/24/2019	EURUSD.fx	9:30:00 AM	1.12038	1.11996			N/A
5/24/2019	EURUSD.fx	11:30:00 AM	1.11931	1.11919			N/A

5/24/2019	EURUSD.fx	1:30:00 PM	1.11921	1.11919			N/A
5/24/2019	EURUSD.fx	3:30:00 PM	1.1198	1.11958			N/A
5/24/2019	EURZAR	9:30:00 AM	16.1391	16.154			N/A
5/24/2019	EURZAR	11:30:00 AM	16.1358	16.15			N/A
5/24/2019	EURZAR	1:30:00 PM	16.1224	16.1365			N/A
5/24/2019	EURZAR	3:30:00 PM	16.1324	16.144			N/A
5/24/2019	EURZAR.fx	9:30:00 AM	16.13848	16.1535			N/A
5/24/2019	EURZAR.fx	11:30:00 AM	16.13492	16.15077			N/A
5/24/2019	EURZAR.fx	1:30:00 PM	16.12161	16.13729			N/A
5/24/2019	EURZAR.fx	3:30:00 PM	16.13098	16.14515			N/A
5/24/2019	GBPAUD	9:30:00 AM	1.83863	1.83922			N/A
5/24/2019	GBPAUD	11:30:00 AM	1.83661	1.83696			N/A
5/24/2019	GBPAUD	1:30:00 PM	1.83969	1.84043			N/A
5/24/2019	GBPAUD	3:30:00 PM	1.83317	1.83351			N/A
5/24/2019	GBPAUD.fx	9:30:00 AM	1.83903	1.83881			N/A
5/24/2019	GBPAUD.fx	11:30:00 AM	1.83706	1.83674			N/A
5/24/2019	GBPAUD.fx	1:30:00 PM	1.84007	1.84002			N/A
5/24/2019	GBPAUD.fx	3:30:00 PM	1.83354	1.83323			N/A
5/24/2019	GBPCAD	9:30:00 AM	1.70761	1.70812			N/A
5/24/2019	GBPCAD	11:30:00 AM	1.70504	1.70558			N/A
5/24/2019	GBPCAD	1:30:00 PM	1.70948	1.7101			N/A
5/24/2019	GBPCAD	3:30:00 PM	1.70452	1.70469			N/A
5/24/2019	GBPCAD.fx	9:30:00 AM	1.70802	1.70769			N/A
5/24/2019	GBPCAD.fx	11:30:00 AM	1.70544	1.70527			N/A
5/24/2019	GBPCAD.fx	1:30:00 PM	1.70986	1.7097			N/A
5/24/2019	GBPCAD.fx	3:30:00 PM	1.70488	1.70435			N/A
5/24/2019	GBPCHF	9:30:00 AM	1.27132	1.27146			N/A
5/24/2019	GBPCHF	11:30:00 AM	1.27037	1.27059			N/A
5/24/2019	GBPCHF	1:30:00 PM	1.27408	1.2744			N/A
5/24/2019	GBPCHF	3:30:00 PM	1.2694	1.26954			N/A
5/24/2019	GBPCHF.fx	9:30:00 AM	1.27151	1.27127			N/A
5/24/2019	GBPCHF.fx	11:30:00 AM	1.27055	1.27049			N/A
5/24/2019	GBPCHF.fx	1:30:00 PM	1.27432	1.27419			N/A
5/24/2019	GBPCHF.fx	3:30:00 PM	1.26958	1.26937			N/A

5/24/2019	GBPCZK	9:30:00 AM	29.25	29.266			N/A
5/24/2019	GBPCZK	11:30:00 AM	29.24	29.254			N/A
5/24/2019	GBPCZK	1:30:00 PM	29.297	29.318			N/A
5/24/2019	GBPCZK	3:30:00 PM	29.183	29.197			N/A
5/24/2019	GBPDKK	9:30:00 AM	8.451	8.46			N/A
5/24/2019	GBPDKK	11:30:00 AM	8.455	8.465			N/A
5/24/2019	GBPDKK	1:30:00 PM	8.475	8.486			N/A
5/24/2019	GBPDKK	3:30:00 PM	8.445	8.454			N/A
5/24/2019	GBPDKK.fx	9:30:00 AM	8.4493	8.4606			N/A
5/24/2019	GBPDKK.fx	11:30:00 AM	8.4529	8.4649			N/A
5/24/2019	GBPDKK.fx	1:30:00 PM	8.4736	8.4861			N/A
5/24/2019	GBPDKK.fx	3:30:00 PM	8.4435	8.455			N/A
5/24/2019	GBPHKD	9:30:00 AM	9.9503	9.9536			N/A
5/24/2019	GBPHKD	11:30:00 AM	9.9457	9.9476			N/A
5/24/2019	GBPHKD	1:30:00 PM	9.9713	9.9755			N/A
5/24/2019	GBPHKD	3:30:00 PM	9.9401	9.9405			N/A
5/24/2019	GBPHUF	9:30:00 AM	369.16	369.6			N/A
5/24/2019	GBPHUF	11:30:00 AM	369.01	369.27			N/A
5/24/2019	GBPHUF	1:30:00 PM	369.92	370.37			N/A
5/24/2019	GBPHUF	3:30:00 PM	368.1	368.34			N/A
5/24/2019	GBPJPY	9:30:00 AM	138.87	138.888			N/A
5/24/2019	GBPJPY	11:30:00 AM	138.863	138.858			N/A
5/24/2019	GBPJPY	1:30:00 PM	139.4	139.42			N/A
5/24/2019	GBPJPY	3:30:00 PM	138.769	138.77			N/A
5/24/2019	GBPJPY.fx	9:30:00 AM	138.89	138.868			N/A
5/24/2019	GBPJPY.fx	11:30:00 AM	138.883	138.85			N/A
5/24/2019	GBPJPY.fx	1:30:00 PM	139.417	139.4			N/A
5/24/2019	GBPJPY.fx	3:30:00 PM	138.787	138.752			N/A
5/24/2019	GBPMXN	9:30:00 AM	24.0969	24.1096			N/A
5/24/2019	GBPMXN	11:30:00 AM	24.0772	24.0839			N/A
5/24/2019	GBPMXN	1:30:00 PM	24.1629	24.1715			N/A
5/24/2019	GBPMXN	3:30:00 PM	24.1168	24.1228			N/A
5/24/2019	GBPNOK	9:30:00 AM	11.0737	11.0833			N/A
5/24/2019	GBPNOK	11:30:00 AM	11.0527	11.0625			N/A

5/24/2019	GBPNOK	1:30:00 PM	11.0711	11.082			N/A
5/24/2019	GBPNOK	3:30:00 PM	11.0299	11.0394			N/A
5/24/2019	GBPNOK.fx	9:30:00 AM	11.07871	11.07849			N/A
5/24/2019	GBPNOK.fx	11:30:00 AM	11.05768	11.0578			N/A
5/24/2019	GBPNOK.fx	1:30:00 PM	11.07596	11.07699			N/A
5/24/2019	GBPNOK.fx	3:30:00 PM	11.0346	11.03437			N/A
5/24/2019	GBPNZD	9:30:00 AM	1.94245	1.94285			N/A
5/24/2019	GBPNZD	11:30:00 AM	1.94075	1.94115			N/A
5/24/2019	GBPNZD	1:30:00 PM	1.94216	1.9429			N/A
5/24/2019	GBPNZD	3:30:00 PM	1.93548	1.93586			N/A
5/24/2019	GBPNZD.fx	9:30:00 AM	1.9428	1.94246			N/A
5/24/2019	GBPNZD.fx	11:30:00 AM	1.94115	1.94089			N/A
5/24/2019	GBPNZD.fx	1:30:00 PM	1.94251	1.94256			N/A
5/24/2019	GBPNZD.fx	3:30:00 PM	1.9358	1.93556			N/A
5/24/2019	GBPPLN	9:30:00 AM	4.8723	4.8722			N/A
5/24/2019	GBPPLN	11:30:00 AM	4.8682	4.8692			N/A
5/24/2019	GBPPLN	1:30:00 PM	4.8812	4.8828			N/A
5/24/2019	GBPPLN	3:30:00 PM	4.8608	4.8612			N/A
5/24/2019	GBPPLN.fx	9:30:00 AM	4.87004	4.87431			N/A
5/24/2019	GBPPLN.fx	11:30:00 AM	4.86596	4.87198			N/A
5/24/2019	GBPPLN.fx	1:30:00 PM	4.87918	4.88492			N/A
5/24/2019	GBPPLN.fx	3:30:00 PM	4.85868	4.86305			N/A
5/24/2019	GBPSEK	9:30:00 AM	12.1657	12.171			N/A
5/24/2019	GBPSEK	11:30:00 AM	12.1528	12.1602			N/A
5/24/2019	GBPSEK	1:30:00 PM	12.1548	12.1607			N/A
5/24/2019	GBPSEK	3:30:00 PM	12.1035	12.1107			N/A
5/24/2019	GBPSEK.fx	9:30:00 AM	12.16196	12.17465			N/A
5/24/2019	GBPSEK.fx	11:30:00 AM	12.14896	12.16489			N/A
5/24/2019	GBPSEK.fx	1:30:00 PM	12.15077	12.16432			N/A
5/24/2019	GBPSEK.fx	3:30:00 PM	12.09955	12.11539			N/A
5/24/2019	GBPSGD	9:30:00 AM	1.7467	1.7471			N/A
5/24/2019	GBPSGD	11:30:00 AM	1.7456	1.746			N/A
5/24/2019	GBPSGD	1:30:00 PM	1.7492	1.7497			N/A
5/24/2019	GBPSGD	3:30:00 PM	1.7435	1.7437			N/A

5/24/2019	GBPSGD.fx	9:30:00 AM	1.74486	1.74884			N/A
5/24/2019	GBPSGD.fx	11:30:00 AM	1.74377	1.74801			N/A
5/24/2019	GBPSGD.fx	1:30:00 PM	1.7473	1.75156			N/A
5/24/2019	GBPSGD.fx	3:30:00 PM	1.74167	1.74567			N/A
5/24/2019	GBPUSD	9:30:00 AM	1.26843	1.26814			N/A
5/24/2019	GBPUSD	11:30:00 AM	1.26786	1.26771			N/A
5/24/2019	GBPUSD	1:30:00 PM	1.27101	1.2709			N/A
5/24/2019	GBPUSD	3:30:00 PM	1.26705	1.26665			N/A
5/24/2019	GBPUSD.fx	9:30:00 AM	1.26849	1.26809			N/A
5/24/2019	GBPUSD.fx	11:30:00 AM	1.26793	1.26768			N/A
5/24/2019	GBPUSD.fx	1:30:00 PM	1.27107	1.27083			N/A
5/24/2019	GBPUSD.fx	3:30:00 PM	1.26709	1.2666			N/A
5/24/2019	GBPZAR	9:30:00 AM	18.274	18.2941			N/A
5/24/2019	GBPZAR	11:30:00 AM	18.279	18.301			N/A
5/24/2019	GBPZAR	1:30:00 PM	18.3078	18.3306			N/A
5/24/2019	GBPZAR	3:30:00 PM	18.2532	18.2731			N/A
5/24/2019	GBPZAR.fx	9:30:00 AM	18.2804	18.287			N/A
5/24/2019	GBPZAR.fx	11:30:00 AM	18.285	18.2937			N/A
5/24/2019	GBPZAR.fx	1:30:00 PM	18.3154	18.3236			N/A
5/24/2019	GBPZAR.fx	3:30:00 PM	18.2605	18.2667			N/A
5/24/2019	GOLD	9:30:00 AM	1284.8	1285.11			N/A
5/24/2019	GOLD	11:30:00 AM	1282.56	1282.91			N/A
5/24/2019	GOLD	1:30:00 PM	1280.99	1281.24			N/A
5/24/2019	GOLD	3:30:00 PM	1283.61	1283.46			N/A
5/24/2019	HKDJPY	9:30:00 AM	13.94	13.96			N/A
5/24/2019	HKDJPY	11:30:00 AM	13.96	13.97			N/A
5/24/2019	HKDJPY	1:30:00 PM	13.98	13.99			N/A
5/24/2019	HKDJPY	3:30:00 PM	13.95	13.96			N/A
5/24/2019	HKDJPY.fx	9:30:00 AM	13.948	13.956			N/A
5/24/2019	HKDJPY.fx	11:30:00 AM	13.953	13.959			N/A
5/24/2019	HKDJPY.fx	1:30:00 PM	13.972	13.979			N/A
5/24/2019	HKDJPY.fx	3:30:00 PM	13.953	13.957			N/A
5/24/2019	HUFJPY	9:30:00 AM	0.3761	0.3764			N/A
5/24/2019	HUFJPY	11:30:00 AM	0.3761	0.3764			N/A

5/24/2019	HUFJPY	1:30:00 PM	0.3767	0.377			N/A
5/24/2019	HUFJPY	3:30:00 PM	0.3767	0.3769			N/A
5/24/2019	JP225.i	9:30:00 AM	21095.89	21108.39			N/A
5/24/2019	JP225.i	11:30:00 AM	21148.39	21158.39			N/A
5/24/2019	JP225.i	1:30:00 PM	21173.39	21188.39			N/A
5/24/2019	JP225.i	3:30:00 PM	21128.39	21135.89			N/A
5/24/2019	MXNJPY	9:30:00 AM	5.76	5.77			N/A
5/24/2019	MXNJPY	11:30:00 AM	5.76	5.77			N/A
5/24/2019	MXNJPY	1:30:00 PM	5.77	5.78			N/A
5/24/2019	MXNJPY	3:30:00 PM	5.75	5.76			N/A
5/24/2019	NASDAQ.i	9:30:00 AM					N/A
5/24/2019	NASDAQ.i	11:30:00 AM					N/A
5/24/2019	NASDAQ.i	1:30:00 PM					N/A
5/24/2019	NASDAQ.i	3:30:00 PM					N/A
5/24/2019	NOKJPY	9:30:00 AM	12.52	12.55			N/A
5/24/2019	NOKJPY	11:30:00 AM	12.55	12.58			N/A
5/24/2019	NOKJPY	1:30:00 PM	12.58	12.61			N/A
5/24/2019	NOKJPY	3:30:00 PM					N/A
5/24/2019	NOKJPY.fx	9:30:00 AM	12.535	12.538			N/A
5/24/2019	NOKJPY.fx	11:30:00 AM	12.558	12.561			N/A
5/24/2019	NOKJPY.fx	1:30:00 PM	12.584	12.59			N/A
5/24/2019	NOKJPY.fx	3:30:00 PM	12.574	12.579			N/A
5/24/2019	NZDCAD	9:30:00 AM	0.87889	0.87943			N/A
5/24/2019	NZDCAD	11:30:00 AM	0.87823	0.87895			N/A
5/24/2019	NZDCAD	1:30:00 PM	0.87984	0.88053			N/A
5/24/2019	NZDCAD	3:30:00 PM	0.88039	0.88092			N/A
5/24/2019	NZDCAD.fx	9:30:00 AM	0.87922	0.87909			N/A
5/24/2019	NZDCAD.fx	11:30:00 AM	0.87857	0.87861			N/A
5/24/2019	NZDCAD.fx	1:30:00 PM	0.88018	0.88019			N/A
5/24/2019	NZDCAD.fx	3:30:00 PM	0.88071	0.8806			N/A
5/24/2019	NZDCHF	9:30:00 AM	0.65423	0.65482			N/A
5/24/2019	NZDCHF	11:30:00 AM	0.65425	0.65494			N/A
5/24/2019	NZDCHF	1:30:00 PM	0.65566	0.65638		200	N/A
5/24/2019	NZDCHF	3:30:00 PM	0.65561	0.65621			N/A

5/24/2019	NZDCHF.fx	9:30:00 AM	0.65457	0.65446			N/A
5/24/2019	NZDCHF.fx	11:30:00 AM	0.65459	0.65458			N/A
5/24/2019	NZDCHF.fx	1:30:00 PM	0.656	0.65602			N/A
5/24/2019	NZDCHF.fx	3:30:00 PM	0.6559	0.65587			N/A
5/24/2019	NZDCZK	9:30:00 AM	15.054	15.066			N/A
5/24/2019	NZDCZK	11:30:00 AM	15.063	15.075			N/A
5/24/2019	NZDCZK	1:30:00 PM	15.08	15.092			N/A
5/24/2019	NZDCZK	3:30:00 PM	15.077	15.082			N/A
5/24/2019	NZDDKK	9:30:00 AM	4.35	4.354			N/A
5/24/2019	NZDDKK	11:30:00 AM	4.356	4.36			N/A
5/24/2019	NZDDKK	1:30:00 PM	4.363	4.367			N/A
5/24/2019	NZDDKK	3:30:00 PM	4.363	4.364			N/A
5/24/2019	NZDHKD	9:30:00 AM	5.1212	5.1234			N/A
5/24/2019	NZDHKD	11:30:00 AM	5.1227	5.1251			N/A
5/24/2019	NZDHKD	1:30:00 PM	5.132	5.1345			N/A
5/24/2019	NZDHKD	3:30:00 PM	5.1343	5.1352			N/A
5/24/2019	NZDHUF	9:30:00 AM	189.99	190.25			N/A
5/24/2019	NZDHUF	11:30:00 AM	190.06	190.32			N/A
5/24/2019	NZDHUF	1:30:00 PM	190.38	190.67			N/A
5/24/2019	NZDHUF	3:30:00 PM	190.1	190.28			N/A
5/24/2019	NZDJPY	9:30:00 AM	71.472	71.525			N/A
5/24/2019	NZDJPY	11:30:00 AM	71.515	71.579			N/A
5/24/2019	NZDJPY	1:30:00 PM	71.738	71.805			N/A
5/24/2019	NZDJPY	3:30:00 PM	71.667	71.722			N/A
5/24/2019	NZDJPY.fx	9:30:00 AM	71.503	71.492			N/A
5/24/2019	NZDJPY.fx	11:30:00 AM	71.547	71.545			N/A
5/24/2019	NZDJPY.fx	1:30:00 PM	71.769	71.771			N/A
5/24/2019	NZDJPY.fx	3:30:00 PM	71.697	71.69			N/A
5/24/2019	NZDMXN	9:30:00 AM	12.4028	12.409			N/A
5/24/2019	NZDMXN	11:30:00 AM	12.4023	12.4081			N/A
5/24/2019	NZDMXN	1:30:00 PM	12.4378	12.4403			N/A
5/24/2019	NZDMXN	3:30:00 PM	12.4573	12.4611			N/A
5/24/2019	NZDNOK	9:30:00 AM	5.6988	5.7026			N/A
5/24/2019	NZDNOK	11:30:00 AM	5.6923	5.6943			N/A

5/24/2019	NZDNOK	1:30:00 PM	5.6983	5.7014			N/A
5/24/2019	NZDNOK	3:30:00 PM	5.6963	5.6973			N/A
5/24/2019	NZDPLN	9:30:00 AM	2.5068	2.5082			N/A
5/24/2019	NZDPLN	11:30:00 AM	2.5059	2.5074			N/A
5/24/2019	NZDPLN	1:30:00 PM	2.5117	2.513			N/A
5/24/2019	NZDPLN	3:30:00 PM	2.5091	2.5098			N/A
5/24/2019	NZDSEK	9:30:00 AM	6.259	6.2645			N/A
5/24/2019	NZDSEK	11:30:00 AM	6.257	6.264			N/A
5/24/2019	NZDSEK	1:30:00 PM	6.2538	6.2583			N/A
5/24/2019	NZDSEK	3:30:00 PM	6.2484	6.2546			N/A
5/24/2019	NZDSGD	9:30:00 AM	0.899	0.8995			N/A
5/24/2019	NZDSGD	11:30:00 AM	0.8992	0.8998			N/A
5/24/2019	NZDSGD	1:30:00 PM	0.9003	0.9008			N/A
5/24/2019	NZDSGD	3:30:00 PM	0.9005	0.9011			N/A
5/24/2019	NZDSGD.fx	9:30:00 AM	0.89904	0.89941			N/A
5/24/2019	NZDSGD.fx	11:30:00 AM	0.89918	0.8997			N/A
5/24/2019	NZDSGD.fx	1:30:00 PM	0.90028	0.90081			N/A
5/24/2019	NZDSGD.fx	3:30:00 PM	0.90057	0.90108			N/A
5/24/2019	NZDUSD	9:30:00 AM	0.65287	0.65278			N/A
5/24/2019	NZDUSD	11:30:00 AM	0.65304	0.65319			N/A
5/24/2019	NZDUSD	1:30:00 PM	0.65415	0.65427			N/A
5/24/2019	NZDUSD	3:30:00 PM	0.65445	0.65444			N/A
5/24/2019	NZDUSD.fx	9:30:00 AM	0.65295	0.65279			N/A
5/24/2019	NZDUSD.fx	11:30:00 AM	0.65312	0.65319			N/A
5/24/2019	NZDUSD.fx	1:30:00 PM	0.65423	0.65429			N/A
5/24/2019	NZDUSD.fx	3:30:00 PM	0.65452	0.65447			N/A
5/24/2019	NZDZAR	9:30:00 AM	9.3991	9.4119			N/A
5/24/2019	NZDZAR	11:30:00 AM	9.4079	9.4228			N/A
5/24/2019	NZDZAR	1:30:00 PM	9.4168	9.4303			N/A
5/24/2019	NZDZAR	3:30:00 PM	9.4188	9.4326			N/A
5/24/2019	SEKJPY	9:30:00 AM	11.41	11.42			N/A
5/24/2019	SEKJPY	11:30:00 AM	11.43	11.43			N/A
5/24/2019	SEKJPY	1:30:00 PM	11.47	11.47			N/A
5/24/2019	SEKJPY	3:30:00 PM	11.46	11.47			N/A

5/24/2019	SEKJPY.fx	9:30:00 AM	11.407	11.42			N/A
5/24/2019	SEKJPY.fx	11:30:00 AM	11.415	11.431			N/A
5/24/2019	SEKJPY.fx	1:30:00 PM	11.46	11.473			N/A
5/24/2019	SEKJPY.fx	3:30:00 PM	11.453	11.47			N/A
5/24/2019	SGDJPY	9:30:00 AM	79.47	79.5			N/A
5/24/2019	SGDJPY	11:30:00 AM	79.52	79.54			N/A
5/24/2019	SGDJPY	1:30:00 PM	79.66	79.69			N/A
5/24/2019	SGDJPY	3:30:00 PM	79.56	79.58			N/A
5/24/2019	SILVER	9:30:00 AM	14.38	14.75			N/A
5/24/2019	SILVER	11:30:00 AM	14.37	14.74			N/A
5/24/2019	SILVER	1:30:00 PM	14.35	14.72			N/A
5/24/2019	SILVER	3:30:00 PM	14.38	14.75			N/A
5/24/2019	SPX500.i	9:30:00 AM	2828.11	2828.91			N/A
5/24/2019	SPX500.i	11:30:00 AM	2835.86	2835.91			N/A
5/24/2019	SPX500.i	1:30:00 PM	2837.36	2837.66			N/A
5/24/2019	SPX500.i	3:30:00 PM	2832.11	2831.6			N/A
5/24/2019	UK100.i	9:30:00 AM	7250.85	7252.1			N/A
5/24/2019	UK100.i	11:30:00 AM	7282.52	7281.52			N/A
5/24/2019	UK100.i	1:30:00 PM	7275.27	7275.69			N/A
5/24/2019	UK100.i	3:30:00 PM	7296.02	7295.19			N/A
5/24/2019	USDCAD	9:30:00 AM	1.34665	1.34658			N/A
5/24/2019	USDCAD	11:30:00 AM	1.34509	1.34515			N/A
5/24/2019	USDCAD	1:30:00 PM	1.34529	1.34527			N/A
5/24/2019	USDCAD	3:30:00 PM	1.34564	1.34542			N/A
5/24/2019	USDCAD.fx	9:30:00 AM	1.34669	1.34655			N/A
5/24/2019	USDCAD.fx	11:30:00 AM	1.34513	1.34511			N/A
5/24/2019	USDCAD.fx	1:30:00 PM	1.34533	1.34523			N/A
5/24/2019	USDCAD.fx	3:30:00 PM	1.34565	1.34539			N/A
5/24/2019	USDCHF	9:30:00 AM	1.00253	1.00256			N/A
5/24/2019	USDCHF	11:30:00 AM	1.00219	1.00221			N/A
5/24/2019	USDCHF	1:30:00 PM	1.00263	1.00272			N/A
5/24/2019	USDCHF	3:30:00 PM	1.00221	1.00212			N/A
5/24/2019	USDCHF.fx	9:30:00 AM	1.00258	1.0025			N/A
5/24/2019	USDCHF.fx	11:30:00 AM	1.00224	1.00214			N/A

5/24/2019	USDCHF.fx	1:30:00 PM	1.00267	1.00265			N/A
5/24/2019	USDCHF.fx	3:30:00 PM	1.00225	1.00207			N/A
5/24/2019	USDCZK	9:30:00 AM	23.082	23.095			N/A
5/24/2019	USDCZK	11:30:00 AM	23.081	23.102			N/A
5/24/2019	USDCZK	1:30:00 PM	23.068	23.09			N/A
5/24/2019	USDCZK	3:30:00 PM	23.06	23.07			N/A
5/24/2019	USDCZK.fx	9:30:00 AM	23.0893	23.0876			N/A
5/24/2019	USDCZK.fx	11:30:00 AM	23.09	23.093			N/A
5/24/2019	USDCZK.fx	1:30:00 PM	23.0779	23.08			N/A
5/24/2019	USDCZK.fx	3:30:00 PM	23.0687	23.0603			N/A
5/24/2019	USDDKK	9:30:00 AM	6.6664	6.6682			N/A
5/24/2019	USDDKK	11:30:00 AM	6.6714	6.6749			N/A
5/24/2019	USDDKK	1:30:00 PM	6.6715	6.6754			N/A
5/24/2019	USDDKK	3:30:00 PM	6.6691	6.6716			N/A
5/24/2019	USDDKK.fx	9:30:00 AM	6.66716	6.66606			N/A
5/24/2019	USDDKK.fx	11:30:00 AM	6.67188	6.67263			N/A
5/24/2019	USDDKK.fx	1:30:00 PM	6.67201	6.67322			N/A
5/24/2019	USDDKK.fx	3:30:00 PM	6.66956	6.66953			N/A
5/24/2019	USDHKD	9:30:00 AM	7.8484	7.8488			N/A
5/24/2019	USDHKD	11:30:00 AM	7.8481	7.8485			N/A
5/24/2019	USDHKD	1:30:00 PM	7.8482	7.8487			N/A
5/24/2019	USDHKD	3:30:00 PM	7.8488	7.8493			N/A
5/24/2019	USDHKD.fx	9:30:00 AM	7.84838	7.84891			N/A
5/24/2019	USDHKD.fx	11:30:00 AM	7.84802	7.84854			N/A
5/24/2019	USDHKD.fx	1:30:00 PM	7.84822	7.84878			N/A
5/24/2019	USDHKD.fx	3:30:00 PM	7.84885	7.84934			N/A
5/24/2019	USDHUF	9:30:00 AM	291.16	291.53			N/A
5/24/2019	USDHUF	11:30:00 AM	291.19	291.62			N/A
5/24/2019	USDHUF	1:30:00 PM	291.14	291.61			N/A
5/24/2019	USDHUF	3:30:00 PM	290.71	290.89			N/A
5/24/2019	USDHUF.fx	9:30:00 AM	291.367	291.329			N/A
5/24/2019	USDHUF.fx	11:30:00 AM	291.385	291.413			N/A
5/24/2019	USDHUF.fx	1:30:00 PM	291.345	291.41			N/A
5/24/2019	USDHUF.fx	3:30:00 PM	290.895	290.682			N/A

5/24/2019	USDINR	9:30:00 AM	64.62	74.6			N/A
5/24/2019	USDINR	11:30:00 AM	64.66	74.64			N/A
5/24/2019	USDINR	1:30:00 PM					N/A
5/24/2019	USDINR	3:30:00 PM					N/A
5/24/2019	USDJPY	9:30:00 AM	109.51	109.517			N/A
5/24/2019	USDJPY	11:30:00 AM	109.539	109.535			N/A
5/24/2019	USDJPY	1:30:00 PM	109.691	109.698			N/A
5/24/2019	USDJPY	3:30:00 PM	109.559	109.531			N/A
5/24/2019	USDJPY.fx	9:30:00 AM	109.516	109.51			N/A
5/24/2019	USDJPY.fx	11:30:00 AM	109.545	109.529			N/A
5/24/2019	USDJPY.fx	1:30:00 PM	109.696	109.691			N/A
5/24/2019	USDJPY.fx	3:30:00 PM	109.553	109.525			N/A
5/24/2019	USDMXN	9:30:00 AM	19.009	19.012			N/A
5/24/2019	USDMXN	11:30:00 AM	18.998	19.005			N/A
5/24/2019	USDMXN	1:30:00 PM	19.019	19.021			N/A
5/24/2019	USDMXN	3:30:00 PM	19.044	19.049			N/A
5/24/2019	USDMXN.f	9:30:00 AM	19.0127	19.0073			N/A
5/24/2019	USDMXN.f	11:30:00 AM	19.0019	19.0007			N/A
5/24/2019	USDMXN.f	1:30:00 PM	19.0229	19.0173			N/A
5/24/2019	USDMXN.f	3:30:00 PM	19.0472	19.0453			N/A
5/24/2019	USDNOK	9:30:00 AM	8.7331	8.7379			N/A
5/24/2019	USDNOK	11:30:00 AM	8.7181	8.7257			N/A
5/24/2019	USDNOK	1:30:00 PM	8.7116	8.719			N/A
5/24/2019	USDNOK	3:30:00 PM	8.7069	8.7135			N/A
5/24/2019	USDNOK.fx	9:30:00 AM	8.73695	8.73334			N/A
5/24/2019	USDNOK.fx	11:30:00 AM	8.72215	8.72117			N/A
5/24/2019	USDNOK.fx	1:30:00 PM	8.71566	8.71445			N/A
5/24/2019	USDNOK.fx	3:30:00 PM	8.71096	8.70903			N/A
5/24/2019	USDPLN	9:30:00 AM	3.8418	3.8412			N/A
5/24/2019	USDPLN	11:30:00 AM	3.8397	3.841			N/A
5/24/2019	USDPLN	1:30:00 PM	3.8405	3.8421			N/A
5/24/2019	USDPLN	3:30:00 PM	3.8369	3.8369			N/A
5/24/2019	USDPLN.fx	9:30:00 AM	3.841	3.84192			N/A
5/24/2019	USDPLN.fx	11:30:00 AM	3.83896	3.84171			N/A

5/24/2019	USDPLN.fx	1:30:00 PM	3.83978	3.84271			N/A
5/24/2019	USDPLN.fx	3:30:00 PM	3.83605	3.83762			N/A
5/24/2019	USDRUB	9:30:00 AM					N/A
5/24/2019	USDRUB	11:30:00 AM	64.372	64.751			N/A
5/24/2019	USDRUB	1:30:00 PM	64.359	64.747			N/A
5/24/2019	USDRUB	3:30:00 PM	64.249	64.629			N/A
5/24/2019	USDSEK	9:30:00 AM	9.5953	9.5939			N/A
5/24/2019	USDSEK	11:30:00 AM	9.5868	9.5906			N/A
5/24/2019	USDSEK	1:30:00 PM	9.5656	9.5661			N/A
5/24/2019	USDSEK	3:30:00 PM	9.5557	9.558			N/A
5/24/2019	USDSEK.fx	9:30:00 AM	9.59783	9.59191			N/A
5/24/2019	USDSEK.fx	11:30:00 AM	9.5895	9.58862			N/A
5/24/2019	USDSEK.fx	1:30:00 PM	9.56833	9.564			N/A
5/24/2019	USDSEK.fx	3:30:00 PM	9.55831	9.55589			N/A
5/24/2019	USDSGD	9:30:00 AM	1.3772	1.3775			N/A
5/24/2019	USDSGD	11:30:00 AM	1.3769	1.3772			N/A
5/24/2019	USDSGD	1:30:00 PM	1.3763	1.3767			N/A
5/24/2019	USDSGD	3:30:00 PM	1.3762	1.3765			N/A
5/24/2019	USDSGD.fx	9:30:00 AM	1.37717	1.37752			N/A
5/24/2019	USDSGD.fx	11:30:00 AM	1.37685	1.37722			N/A
5/24/2019	USDSGD.fx	1:30:00 PM	1.37624	1.37668			N/A
5/24/2019	USDSGD.fx	3:30:00 PM	1.37612	1.37657			N/A
5/24/2019	USDZAR	9:30:00 AM	14.4107	14.4177			N/A
5/24/2019	USDZAR	11:30:00 AM	14.4164	14.429			N/A
5/24/2019	USDZAR	1:30:00 PM	14.405	14.4172			N/A
5/24/2019	USDZAR	3:30:00 PM	14.4082	14.4171			N/A
5/24/2019	USDZAR.fx	9:30:00 AM					N/A
5/24/2019	USDZAR.fx	11:30:00 AM					N/A
5/24/2019	USDZAR.fx	1:30:00 PM					N/A
5/24/2019	USDZAR.fx	3:30:00 PM					N/A
5/24/2019	XAUUSD	9:30:00 AM	1284.81	1285.11			N/A
5/24/2019	XAUUSD	11:30:00 AM	1282.56	1282.9			N/A
5/24/2019	XAUUSD	1:30:00 PM	1280.99	1281.23			N/A
5/24/2019	XAUUSD	3:30:00 PM	1283.6	1283.44			N/A

5/24/2019	ZARJPY	9:30:00 AM	7.58	7.6			N/A
5/24/2019	ZARJPY	11:30:00 AM	7.58	7.6			N/A
5/24/2019	ZARJPY	1:30:00 PM	7.6	7.62			N/A
5/24/2019	ZARJPY	3:30:00 PM	7.57	7.6			N/A
5/24/2019	ZARJPY.fx	9:30:00 AM	7.597	7.598			N/A
5/24/2019	ZARJPY.fx	11:30:00 AM	7.594	7.595			N/A
5/24/2019	ZARJPY.fx	1:30:00 PM	7.611	7.612			N/A
5/24/2019	ZARJPY.fx	3:30:00 PM	7.6	7.6			N/A
5/27/2019	#AA	9:30:00 AM					N/A
5/27/2019	#AA	11:30:00 AM					N/A
5/27/2019	#AA	1:30:00 PM					N/A
5/27/2019	#AA	3:30:00 PM					N/A
5/27/2019	#AABA	9:30:00 AM					N/A
5/27/2019	#AABA	11:30:00 AM					N/A
5/27/2019	#AABA	1:30:00 PM					N/A
5/27/2019	#AABA	3:30:00 PM					N/A
5/27/2019	#AAL	9:30:00 AM					N/A
5/27/2019	#AAL	11:30:00 AM					N/A
5/27/2019	#AAL	1:30:00 PM					N/A
5/27/2019	#AAL	3:30:00 PM					N/A
5/27/2019	#AAPL	9:30:00 AM					N/A
5/27/2019	#AAPL	11:30:00 AM					N/A
5/27/2019	#AAPL	1:30:00 PM					N/A
5/27/2019	#AAPL	3:30:00 PM					N/A
5/27/2019	#ADBE	9:30:00 AM					N/A
5/27/2019	#ADBE	11:30:00 AM					N/A
5/27/2019	#ADBE	1:30:00 PM					N/A
5/27/2019	#ADBE	3:30:00 PM					N/A
5/27/2019	#AIG	9:30:00 AM					N/A
5/27/2019	#AIG	11:30:00 AM					N/A
5/27/2019	#AIG	1:30:00 PM					N/A
5/27/2019	#AIG	3:30:00 PM					N/A
5/27/2019	#AMD	9:30:00 AM					N/A
5/27/2019	#AMD	11:30:00 AM					N/A

5/27/2019	#AMD	1:30:00 PM					N/A
5/27/2019	#AMD	3:30:00 PM					N/A
5/27/2019	#AMZN	9:30:00 AM					N/A
5/27/2019	#AMZN	11:30:00 AM					N/A
5/27/2019	#AMZN	1:30:00 PM					N/A
5/27/2019	#AMZN	3:30:00 PM					N/A
5/27/2019	#AXP	9:30:00 AM					N/A
5/27/2019	#AXP	11:30:00 AM					N/A
5/27/2019	#AXP	1:30:00 PM					N/A
5/27/2019	#AXP	3:30:00 PM					N/A
5/27/2019	#BA	9:30:00 AM					N/A
5/27/2019	#BA	11:30:00 AM					N/A
5/27/2019	#BA	1:30:00 PM					N/A
5/27/2019	#BA	3:30:00 PM					N/A
5/27/2019	#BABA	9:30:00 AM					N/A
5/27/2019	#BABA	11:30:00 AM					N/A
5/27/2019	#BABA	1:30:00 PM					N/A
5/27/2019	#BABA	3:30:00 PM					N/A
5/27/2019	#BAC	9:30:00 AM					N/A
5/27/2019	#BAC	11:30:00 AM					N/A
5/27/2019	#BAC	1:30:00 PM					N/A
5/27/2019	#BAC	3:30:00 PM					N/A
5/27/2019	#BARC	9:30:00 AM					N/A
5/27/2019	#BARC	11:30:00 AM					N/A
5/27/2019	#BARC	1:30:00 PM					N/A
5/27/2019	#BARC	3:30:00 PM					N/A
5/27/2019	#BHP	9:30:00 AM					N/A
5/27/2019	#BHP	11:30:00 AM					N/A
5/27/2019	#BHP	1:30:00 PM					N/A
5/27/2019	#BHP	3:30:00 PM					N/A
5/27/2019	#BIDU	9:30:00 AM					N/A
5/27/2019	#BIDU	11:30:00 AM					N/A
5/27/2019	#BIDU	1:30:00 PM					N/A
5/27/2019	#BIDU	3:30:00 PM					N/A

5/27/2019	#Bitcoin	9:30:00 AM	8753.35	8786.9			N/A
5/27/2019	#Bitcoin	11:30:00 AM	8739.4	8767.1			N/A
5/27/2019	#Bitcoin	1:30:00 PM	8734.6	8769.45			N/A
5/27/2019	#Bitcoin	3:30:00 PM	8809.06	8837.55			N/A
5/27/2019	#BK	9:30:00 AM					N/A
5/27/2019	#BK	11:30:00 AM					N/A
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5/27/2019	#BK	3:30:00 PM					N/A
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5/27/2019	#VZ	1:30:00 PM					N/A
5/27/2019	#VZ	3:30:00 PM					N/A
5/27/2019	#WDC	9:30:00 AM					N/A
5/27/2019	#WDC	11:30:00 AM					N/A
5/27/2019	#WDC	1:30:00 PM					N/A
5/27/2019	#WDC	3:30:00 PM					N/A
5/27/2019	#WFC	9:30:00 AM					N/A
5/27/2019	#WFC	11:30:00 AM					N/A
5/27/2019	#WFC	1:30:00 PM					N/A
5/27/2019	#WFC	3:30:00 PM					N/A
5/27/2019	#WMT	9:30:00 AM					N/A
5/27/2019	#WMT	11:30:00 AM					N/A
5/27/2019	#WMT	1:30:00 PM					N/A
5/27/2019	#WMT	3:30:00 PM					N/A
5/27/2019	#XOM	9:30:00 AM					N/A
5/27/2019	#XOM	11:30:00 AM					N/A

5/27/2019	#XOM	1:30:00 PM					N/A
5/27/2019	#XOM	3:30:00 PM					N/A
5/27/2019	#YHOO	9:30:00 AM					N/A
5/27/2019	#YHOO	11:30:00 AM					N/A
5/27/2019	#YHOO	1:30:00 PM					N/A
5/27/2019	#YHOO	3:30:00 PM					N/A
5/27/2019	#ZNGA	9:30:00 AM					N/A
5/27/2019	#ZNGA	11:30:00 AM					N/A
5/27/2019	#ZNGA	1:30:00 PM					N/A
5/27/2019	#ZNGA	3:30:00 PM					N/A
5/27/2019	AUDCAD	9:30:00 AM	0.93085	0.93141			N/A
5/27/2019	AUDCAD	11:30:00 AM	0.93058	0.93129			N/A
5/27/2019	AUDCAD	1:30:00 PM	0.93083	0.93152			N/A
5/27/2019	AUDCAD	3:30:00 PM	0.93082	0.93151			N/A
5/27/2019	AUDCAD.fx	9:30:00 AM	0.93117	0.93104			N/A
5/27/2019	AUDCAD.fx	11:30:00 AM	0.93092	0.93095			N/A
5/27/2019	AUDCAD.fx	1:30:00 PM	0.93115	0.93117			N/A
5/27/2019	AUDCAD.fx	3:30:00 PM	0.93115	0.93116			N/A
5/27/2019	AUDCHF	9:30:00 AM	0.69547	0.69603			N/A
5/27/2019	AUDCHF	11:30:00 AM	0.69614	0.69687			N/A
5/27/2019	AUDCHF	1:30:00 PM	0.69537	0.69604			N/A
5/27/2019	AUDCHF	3:30:00 PM	0.69576	0.69643			N/A
5/27/2019	AUDCHF.fx	9:30:00 AM	0.69581	0.69568			N/A
5/27/2019	AUDCHF.fx	11:30:00 AM	0.69648	0.69652			N/A
5/27/2019	AUDCHF.fx	1:30:00 PM	0.69577	0.69569			N/A
5/27/2019	AUDCHF.fx	3:30:00 PM	0.69611	0.69608			N/A
5/27/2019	AUDCZK	9:30:00 AM	15.964	15.978			N/A
5/27/2019	AUDCZK	11:30:00 AM	15.957	15.967			N/A
5/27/2019	AUDCZK	1:30:00 PM	15.956	15.972			N/A
5/27/2019	AUDCZK	3:30:00 PM	15.953	15.971			N/A
5/27/2019	AUDDKK	9:30:00 AM	4.6183	4.6223			N/A
5/27/2019	AUDDKK	11:30:00 AM	4.6174	4.6222			N/A
5/27/2019	AUDDKK	1:30:00 PM	4.6162	4.6208			N/A
5/27/2019	AUDDKK	3:30:00 PM	4.6166	4.6214			N/A

5/27/2019	AUDHKD	9:30:00 AM	5.438	5.4419			N/A
5/27/2019	AUDHKD	11:30:00 AM	5.4315	5.4353			N/A
5/27/2019	AUDHKD	1:30:00 PM	5.4308	5.4343			N/A
5/27/2019	AUDHKD	3:30:00 PM	5.4323	5.4362			N/A
5/27/2019	AUDHUF	9:30:00 AM	201.1	201.3			N/A
5/27/2019	AUDHUF	11:30:00 AM	201.18	201.41			N/A
5/27/2019	AUDHUF	1:30:00 PM	201.2	201.43			N/A
5/27/2019	AUDHUF	3:30:00 PM	201.26	201.51			N/A
5/27/2019	AUDJPY	9:30:00 AM	75.914	75.954			N/A
5/27/2019	AUDJPY	11:30:00 AM	75.8	75.87			N/A
5/27/2019	AUDJPY	1:30:00 PM	75.743	75.814			N/A
5/27/2019	AUDJPY	3:30:00 PM	75.774	75.846			N/A
5/27/2019	AUDJPY.fx	9:30:00 AM	75.948	75.92			N/A
5/27/2019	AUDJPY.fx	11:30:00 AM	75.833	75.835			N/A
5/27/2019	AUDJPY.fx	1:30:00 PM	75.777	75.779			N/A
5/27/2019	AUDJPY.fx	3:30:00 PM	75.808	75.811			N/A
5/27/2019	AUDMXN	9:30:00 AM	13.1853	13.1923			N/A
5/27/2019	AUDMXN	11:30:00 AM	13.185	13.1959			N/A
5/27/2019	AUDMXN	1:30:00 PM	13.1883	13.1979			N/A
5/27/2019	AUDMXN	3:30:00 PM	13.1797	13.1903			N/A
5/27/2019	AUDNOK	9:30:00 AM	6.0207	6.0249			N/A
5/27/2019	AUDNOK	11:30:00 AM	6.0221	6.026			N/A
5/27/2019	AUDNOK	1:30:00 PM	6.0283	6.0336			N/A
5/27/2019	AUDNOK	3:30:00 PM	6.0305	6.0353			N/A
5/27/2019	AUDNOK.fx	9:30:00 AM	6.0222	6.0232			N/A
5/27/2019	AUDNOK.fx	11:30:00 AM	6.0236	6.0258			N/A
5/27/2019	AUDNOK.fx	1:30:00 PM	6.0298	6.032			N/A
5/27/2019	AUDNOK.fx	3:30:00 PM	6.0319	6.0337			N/A
5/27/2019	AUDNZD	9:30:00 AM	1.05727	1.05806			N/A
5/27/2019	AUDNZD	11:30:00 AM	1.0572	1.05814			N/A
5/27/2019	AUDNZD	1:30:00 PM	1.05709	1.058			N/A
5/27/2019	AUDNZD	3:30:00 PM	1.0573	1.05825			N/A
5/27/2019	AUDNZD.fx	9:30:00 AM	1.05771	1.0576			N/A
5/27/2019	AUDNZD.fx	11:30:00 AM	1.05764	1.05769			N/A

5/27/2019	AUDNZD.fx	1:30:00 PM	1.05753	1.05754			N/A
5/27/2019	AUDNZD.fx	3:30:00 PM	1.05773	1.05776			N/A
5/27/2019	AUDPLN	9:30:00 AM	2.654	2.6564			N/A
5/27/2019	AUDPLN	11:30:00 AM	2.6544	2.6573			N/A
5/27/2019	AUDPLN	1:30:00 PM	2.6549	2.6582			N/A
5/27/2019	AUDPLN	3:30:00 PM	2.6532	2.6562			N/A
5/27/2019	AUDSEK	9:30:00 AM	6.6143	6.6159			N/A
5/27/2019	AUDSEK	11:30:00 AM	6.6125	6.6158			N/A
5/27/2019	AUDSEK	1:30:00 PM	6.6218	6.625			N/A
5/27/2019	AUDSEK	3:30:00 PM	6.6312	6.6342			N/A
5/27/2019	AUDSEK.fx	9:30:00 AM	6.6096	6.6203			N/A
5/27/2019	AUDSEK.fx	11:30:00 AM	6.608	6.6202			N/A
5/27/2019	AUDSEK.fx	1:30:00 PM	6.6172	6.6294			N/A
5/27/2019	AUDSEK.fx	3:30:00 PM	6.6264	6.6388			N/A
5/27/2019	AUDSGD	9:30:00 AM	0.9526	0.9527			N/A
5/27/2019	AUDSGD	11:30:00 AM	0.9515	0.9517			N/A
5/27/2019	AUDSGD	1:30:00 PM	0.9515	0.9518			N/A
5/27/2019	AUDSGD	3:30:00 PM	0.9517	0.952			N/A
5/27/2019	AUDSGD.fx	9:30:00 AM	0.95265	0.95261			N/A
5/27/2019	AUDSGD.fx	11:30:00 AM	0.95158	0.95169			N/A
5/27/2019	AUDSGD.fx	1:30:00 PM	0.95156	0.95168			N/A
5/27/2019	AUDSGD.fx	3:30:00 PM	0.95176	0.95186			N/A
5/27/2019	AUDUSD	9:30:00 AM	0.69324	0.69319			N/A
5/27/2019	AUDUSD	11:30:00 AM	0.6923	0.69243			N/A
5/27/2019	AUDUSD	1:30:00 PM	0.69222	0.69236			N/A
5/27/2019	AUDUSD	3:30:00 PM	0.69235	0.69251			N/A
5/27/2019	AUDUSD.fx	9:30:00 AM	0.69329	0.69313			N/A
5/27/2019	AUDUSD.fx	11:30:00 AM	0.69235	0.69237			N/A
5/27/2019	AUDUSD.fx	1:30:00 PM	0.69228	0.6923			N/A
5/27/2019	AUDUSD.fx	3:30:00 PM	0.69241	0.69245			N/A
5/27/2019	AUDZAR	9:30:00 AM	9.9695	9.9792			N/A
5/27/2019	AUDZAR	11:30:00 AM	9.9756	9.9904			N/A
5/27/2019	AUDZAR	1:30:00 PM	10.0038	10.0186			N/A
5/27/2019	AUDZAR	3:30:00 PM	10.0002	10.0162			N/A

5/27/2019	AUS200.i	9:30:00 AM	6456.78	6461.28			N/A
5/27/2019	AUS200.i	11:30:00 AM	6460.98	6464.68			N/A
5/27/2019	AUS200.i	1:30:00 PM	6454.78	6459.08			N/A
5/27/2019	AUS200.i	3:30:00 PM	6459.18	6463.18			N/A
5/27/2019	BCHUSD	9:30:00 AM	446.21	447.9			N/A
5/27/2019	BCHUSD	11:30:00 AM	442.75	444.03			N/A
5/27/2019	BCHUSD	1:30:00 PM	441.64	443.3			N/A
5/27/2019	BCHUSD	3:30:00 PM	445.28	446.87			N/A
5/27/2019	CADCHF	9:30:00 AM	0.74688	0.74754			N/A
5/27/2019	CADCHF	11:30:00 AM	0.74783	0.74852			N/A
5/27/2019	CADCHF	1:30:00 PM	0.7468	0.74749			N/A
5/27/2019	CADCHF	3:30:00 PM	0.74721	0.74788			N/A
5/27/2019	CADCHF.fx	9:30:00 AM	0.74722	0.74718			N/A
5/27/2019	CADCHF.fx	11:30:00 AM	0.74816	0.74817			N/A
5/27/2019	CADCHF.fx	1:30:00 PM	0.74714	0.74713			N/A
5/27/2019	CADCHF.fx	3:30:00 PM	0.74756	0.74753			N/A
5/27/2019	CADCZK	9:30:00 AM	17.148	17.164			N/A
5/27/2019	CADCZK	11:30:00 AM	17.145	17.155			N/A
5/27/2019	CADCZK	1:30:00 PM	17.139	17.156			N/A
5/27/2019	CADCZK	3:30:00 PM	17.136	17.154			N/A
5/27/2019	CADDKK	9:30:00 AM	4.961	4.964			N/A
5/27/2019	CADDKK	11:30:00 AM	4.961	4.965			N/A
5/27/2019	CADDKK	1:30:00 PM					N/A
5/27/2019	CADDKK	3:30:00 PM					N/A
5/27/2019	CADHKD	9:30:00 AM	5.8412	5.845			N/A
5/27/2019	CADHKD	11:30:00 AM	5.8357	5.8396			N/A
5/27/2019	CADHKD	1:30:00 PM	5.8331	5.8371			N/A
5/27/2019	CADHKD	3:30:00 PM	5.8348	5.8386			N/A
5/27/2019	CADHUF	9:30:00 AM	216.04	216.17			N/A
5/27/2019	CADHUF	11:30:00 AM	216.18	216.36			N/A
5/27/2019	CADHUF	1:30:00 PM	216.15	216.32			N/A
5/27/2019	CADHUF	3:30:00 PM					N/A
5/27/2019	CADJPY	9:30:00 AM	81.525	81.573			N/A
5/27/2019	CADJPY	11:30:00 AM	81.425	81.493			N/A

5/27/2019	CADJPY	1:30:00 PM	81.341	81.418			N/A
5/27/2019	CADJPY	3:30:00 PM	81.378	81.446			N/A
5/27/2019	CADJPY.fx	9:30:00 AM	81.558	81.539			N/A
5/27/2019	CADJPY.fx	11:30:00 AM	81.455	81.458			N/A
5/27/2019	CADJPY.fx	1:30:00 PM	81.374	81.384			N/A
5/27/2019	CADJPY.fx	3:30:00 PM	81.411	81.411			N/A
5/27/2019	CADMXN	9:30:00 AM	14.1614	14.1733			N/A
5/27/2019	CADMXN	11:30:00 AM	14.165	14.1779			N/A
5/27/2019	CADMXN	1:30:00 PM	14.1643	14.1772			N/A
5/27/2019	CADMXN	3:30:00 PM	14.156	14.169			N/A
5/27/2019	CADNOK	9:30:00 AM	6.4651	6.4698			N/A
5/27/2019	CADNOK	11:30:00 AM	6.4686	6.4733			N/A
5/27/2019	CADNOK	1:30:00 PM	6.4731	6.478			N/A
5/27/2019	CADNOK	3:30:00 PM	6.4758	6.48			N/A
5/27/2019	CADPLN	9:30:00 AM	2.8505	2.8523			N/A
5/27/2019	CADPLN	11:30:00 AM	2.8519	2.8538			N/A
5/27/2019	CADPLN	1:30:00 PM	2.8517	2.8536			N/A
5/27/2019	CADPLN	3:30:00 PM	2.8504	2.8522			N/A
5/27/2019	CADSEK	9:30:00 AM	7.101	7.1049			N/A
5/27/2019	CADSEK	11:30:00 AM	7.1014	7.1053			N/A
5/27/2019	CADSEK	1:30:00 PM	7.1098	7.1133			N/A
5/27/2019	CADSEK	3:30:00 PM	7.1201	7.1239			N/A
5/27/2019	CADSGD	9:30:00 AM	1.0223	1.0225			N/A
5/27/2019	CADSGD	11:30:00 AM	1.0217	1.022			N/A
5/27/2019	CADSGD	1:30:00 PM	1.0212	1.0215			N/A
5/27/2019	CADSGD	3:30:00 PM	1.0214	1.0217			N/A
5/27/2019	CADZAR	9:30:00 AM	10.709	10.7203			N/A
5/27/2019	CADZAR	11:30:00 AM	10.7183	10.7339			N/A
5/27/2019	CADZAR	1:30:00 PM	10.7452	10.7616			N/A
5/27/2019	CADZAR	3:30:00 PM	10.7412	10.7592			N/A
5/27/2019	CHFCZK	9:30:00 AM					N/A
5/27/2019	CHFCZK	11:30:00 AM	22.92	22.926			N/A
5/27/2019	CHFCZK	1:30:00 PM	22.944	22.961			N/A
5/27/2019	CHFCZK	3:30:00 PM	22.927	22.945			N/A

5/27/2019	CHFDKK	9:30:00 AM					N/A
5/27/2019	CHFDKK	11:30:00 AM					N/A
5/27/2019	CHFDKK	1:30:00 PM	6.637	6.641			N/A
5/27/2019	CHFDKK	3:30:00 PM	6.634	6.637			N/A
5/27/2019	CHFDKK.fx	9:30:00 AM	6.6377	6.6438			N/A
5/27/2019	CHFDKK.fx	11:30:00 AM	6.6296	6.6359			N/A
5/27/2019	CHFDKK.fx	1:30:00 PM	6.6358	6.6414			N/A
5/27/2019	CHFDKK.fx	3:30:00 PM	6.6326	6.6387			N/A
5/27/2019	CHFHKD	9:30:00 AM	7.8184	7.8223			N/A
5/27/2019	CHFHKD	11:30:00 AM	7.8008	7.8047			N/A
5/27/2019	CHFHKD	1:30:00 PM	7.8086	7.8125			N/A
5/27/2019	CHFHKD	3:30:00 PM	7.8064	7.8102			N/A
5/27/2019	CHFHUF	9:30:00 AM	289.06	289.42			N/A
5/27/2019	CHFHUF	11:30:00 AM	288.88	289.27			N/A
5/27/2019	CHFHUF	1:30:00 PM	289.25	289.64			N/A
5/27/2019	CHFHUF	3:30:00 PM	289.15	289.55			N/A
5/27/2019	CHFJPY	9:30:00 AM	109.109	109.162			N/A
5/27/2019	CHFJPY	11:30:00 AM	108.844	108.913			N/A
5/27/2019	CHFJPY	1:30:00 PM	108.887	108.953			N/A
5/27/2019	CHFJPY	3:30:00 PM	108.871	108.94			N/A
5/27/2019	CHFJPY.fx	9:30:00 AM	109.142	109.126			N/A
5/27/2019	CHFJPY.fx	11:30:00 AM	108.876	108.879			N/A
5/27/2019	CHFJPY.fx	1:30:00 PM	108.92	108.918			N/A
5/27/2019	CHFJPY.fx	3:30:00 PM	108.903	108.906			N/A
5/27/2019	CHFMXN	9:30:00 AM	18.9545	18.9685			N/A
5/27/2019	CHFMXN	11:30:00 AM	18.9344	18.9512			N/A
5/27/2019	CHFMXN	1:30:00 PM	18.9593	18.9771			N/A
5/27/2019	CHFMXN	3:30:00 PM	18.9374	18.9553			N/A
5/27/2019	CHFNOK	9:30:00 AM	8.6533	8.6604			N/A
5/27/2019	CHFNOK	11:30:00 AM	8.6457	8.6539			N/A
5/27/2019	CHFNOK	1:30:00 PM	8.6647	8.6724			N/A
5/27/2019	CHFNOK	3:30:00 PM	8.6631	8.6701			N/A
5/27/2019	CHFNOK.fx	9:30:00 AM	8.6567	8.65698			N/A
5/27/2019	CHFNOK.fx	11:30:00 AM	8.64911	8.65051			N/A

5/27/2019	CHFNOK.fx	1:30:00 PM	8.66799	8.66901			N/A
5/27/2019	CHFNOK.fx	3:30:00 PM	8.66643	8.66659			N/A
5/27/2019	CHFPLN	9:30:00 AM	3.8151	3.8174			N/A
5/27/2019	CHFPLN	11:30:00 AM	3.812	3.8144			N/A
5/27/2019	CHFPLN	1:30:00 PM	3.8169	3.8198			N/A
5/27/2019	CHFPLN	3:30:00 PM	3.8123	3.8153			N/A
5/27/2019	CHFPLN.fx	9:30:00 AM	3.81253	3.81979			N/A
5/27/2019	CHFPLN.fx	11:30:00 AM	3.80956	3.81683			N/A
5/27/2019	CHFPLN.fx	1:30:00 PM	3.81445	3.82215			N/A
5/27/2019	CHFPLN.fx	3:30:00 PM	3.80984	3.81763			N/A
5/27/2019	CHFSEK	9:30:00 AM	9.5047	9.5089			N/A
5/27/2019	CHFSEK	11:30:00 AM	9.4926	9.4971			N/A
5/27/2019	CHFSEK	1:30:00 PM	9.5166	9.5207			N/A
5/27/2019	CHFSEK	3:30:00 PM	9.525	9.5289			N/A
5/27/2019	CHFSGD	9:30:00 AM	1.369	1.3695			N/A
5/27/2019	CHFSGD	11:30:00 AM	1.3661	1.3666			N/A
5/27/2019	CHFSGD	1:30:00 PM	1.3676	1.3681			N/A
5/27/2019	CHFSGD	3:30:00 PM	1.3672	1.3676			N/A
5/27/2019	CHFSGD.fx	9:30:00 AM	1.36919	1.36926			N/A
5/27/2019	CHFSGD.fx	11:30:00 AM	1.36624	1.36637			N/A
5/27/2019	CHFSGD.fx	1:30:00 PM	1.36783	1.36783			N/A
5/27/2019	CHFSGD.fx	3:30:00 PM	1.36733	1.36737			N/A
5/27/2019	CHFZAR	9:30:00 AM	14.3378	14.3435			N/A
5/27/2019	CHFZAR	11:30:00 AM	14.3298	14.3438			N/A
5/27/2019	CHFZAR	1:30:00 PM	14.3874	14.4007			N/A
5/27/2019	CHFZAR	3:30:00 PM	14.3734	14.3886			N/A
5/27/2019	CZKJPY	9:30:00 AM	4.753	4.757			N/A
5/27/2019	CZKJPY	11:30:00 AM	4.75	4.752			N/A
5/27/2019	CZKJPY	1:30:00 PM					N/A
5/27/2019	CZKJPY	3:30:00 PM					N/A
5/27/2019	DAX30.i	9:30:00 AM	12061.68	12055.43			N/A
5/27/2019	DAX30.i	11:30:00 AM	12061.93	12059.93			N/A
5/27/2019	DAX30.i	1:30:00 PM	12049.18	12050.18			N/A
5/27/2019	DAX30.i	3:30:00 PM	12071.93	12070.93			N/A

5/27/2019	DJ30.i	9:30:00 AM					N/A
5/27/2019	DJ30.i	11:30:00 AM					N/A
5/27/2019	DJ30.i	1:30:00 PM					N/A
5/27/2019	DJ30.i	3:30:00 PM					N/A
5/27/2019	DKKJPY	9:30:00 AM	16.43	16.45			N/A
5/27/2019	DKKJPY	11:30:00 AM					N/A
5/27/2019	DKKJPY	1:30:00 PM					N/A
5/27/2019	DKKJPY	3:30:00 PM					N/A
5/27/2019	EURAUD	9:30:00 AM	1.61571	1.61578			N/A
5/27/2019	EURAUD	11:30:00 AM	1.61579	1.61623			N/A
5/27/2019	EURAUD	1:30:00 PM	1.61623	1.61666			N/A
5/27/2019	EURAUD	3:30:00 PM	1.61616	1.61658			N/A
5/27/2019	EURAUD.fx	9:30:00 AM	1.61593	1.61556			N/A
5/27/2019	EURAUD.fx	11:30:00 AM	1.61599	1.61601			N/A
5/27/2019	EURAUD.fx	1:30:00 PM	1.61644	1.61644			N/A
5/27/2019	EURAUD.fx	3:30:00 PM	1.61637	1.61636			N/A
5/27/2019	EURCAD	9:30:00 AM	1.50466	1.50538			N/A
5/27/2019	EURCAD	11:30:00 AM	1.50455	1.50535			N/A
5/27/2019	EURCAD	1:30:00 PM	1.5053	1.5062			N/A
5/27/2019	EURCAD	3:30:00 PM	1.50524	1.50612			N/A
5/27/2019	EURCAD.fx	9:30:00 AM	1.50506	1.50497			N/A
5/27/2019	EURCAD.fx	11:30:00 AM	1.50497	1.50493			N/A
5/27/2019	EURCAD.fx	1:30:00 PM	1.50573	1.50576			N/A
5/27/2019	EURCAD.fx	3:30:00 PM	1.50565	1.50568			N/A
5/27/2019	EURCHF	9:30:00 AM	1.12452	1.12462			N/A
5/27/2019	EURCHF	11:30:00 AM	1.1259	1.12602			N/A
5/27/2019	EURCHF	1:30:00 PM	1.12496	1.12502			N/A
5/27/2019	EURCHF	3:30:00 PM	1.12553	1.12561			N/A
5/27/2019	EURCHF.fx	9:30:00 AM	1.12457	1.12456			N/A
5/27/2019	EURCHF.fx	11:30:00 AM	1.12596	1.12597			N/A
5/27/2019	EURCHF.fx	1:30:00 PM	1.12502	1.12496			N/A
5/27/2019	EURCHF.fx	3:30:00 PM	1.12558	1.12555			N/A
5/27/2019	EURCZK	9:30:00 AM	25.798	25.837			N/A
5/27/2019	EURCZK	11:30:00 AM	25.792	25.821			N/A

5/27/2019	EURCZK	1:30:00 PM					N/A
5/27/2019	EURCZK	3:30:00 PM					N/A
5/27/2019	EURDKK	9:30:00 AM	7.467	7.468			N/A
5/27/2019	EURDKK	11:30:00 AM	7.4674	7.4683			N/A
5/27/2019	EURDKK	1:30:00 PM	7.4666	7.4678			N/A
5/27/2019	EURDKK	3:30:00 PM	7.4669	7.4682			N/A
5/27/2019	EURGBP	9:30:00 AM	0.87944	0.87948			N/A
5/27/2019	EURGBP	11:30:00 AM	0.88005	0.88011			N/A
5/27/2019	EURGBP	1:30:00 PM	0.88268	0.88269			N/A
5/27/2019	EURGBP	3:30:00 PM	0.88259	0.88247			N/A
5/27/2019	EURGBP.fx	9:30:00 AM	0.87947	0.87943			N/A
5/27/2019	EURGBP.fx	11:30:00 AM	0.88008	0.88007			N/A
5/27/2019	EURGBP.fx	1:30:00 PM	0.88271	0.88265			N/A
5/27/2019	EURGBP.fx	3:30:00 PM	0.88262	0.88242			N/A
5/27/2019	EURHKD	9:30:00 AM	8.7926	8.7975			N/A
5/27/2019	EURHKD	11:30:00 AM	8.7832	8.7881			N/A
5/27/2019	EURHKD	1:30:00 PM	8.7843	8.7897			N/A
5/27/2019	EURHKD	3:30:00 PM	8.7858	8.7913			N/A
5/27/2019	EURHKD.fx	9:30:00 AM	8.79557	8.79468			N/A
5/27/2019	EURHKD.fx	11:30:00 AM	8.78604	8.7853			N/A
5/27/2019	EURHKD.fx	1:30:00 PM	8.78711	8.78681			N/A
5/27/2019	EURHKD.fx	3:30:00 PM	8.78858	8.78849			N/A
5/27/2019	EURHUF	9:30:00 AM	325.04	325.69			N/A
5/27/2019	EURHUF	11:30:00 AM	325.21	325.82			N/A
5/27/2019	EURHUF	1:30:00 PM	325.33	325.94			N/A
5/27/2019	EURHUF	3:30:00 PM	325.43	326.01			N/A
5/27/2019	EURHUF.fx	9:30:00 AM	325.274	325.456			N/A
5/27/2019	EURHUF.fx	11:30:00 AM	325.516	325.708			N/A
5/27/2019	EURHUF.fx	1:30:00 PM	325.637	325.808			N/A
5/27/2019	EURHUF.fx	3:30:00 PM	325.685	325.908			N/A
5/27/2019	EURJPY	9:30:00 AM	122.738	122.724			N/A
5/27/2019	EURJPY	11:30:00 AM	122.592	122.596			N/A
5/27/2019	EURJPY	1:30:00 PM	122.531	122.542			N/A
5/27/2019	EURJPY	3:30:00 PM	122.576	122.584			N/A

5/27/2019	EURJPY.fx	9:30:00 AM	122.741	122.72			N/A
5/27/2019	EURJPY.fx	11:30:00 AM	122.595	122.592			N/A
5/27/2019	EURJPY.fx	1:30:00 PM	122.533	122.538			N/A
5/27/2019	EURJPY.fx	3:30:00 PM	122.578	122.58			N/A
5/27/2019	EURMXN	9:30:00 AM	21.3178	21.3338			N/A
5/27/2019	EURMXN	11:30:00 AM	21.3219	21.341			N/A
5/27/2019	EURMXN	1:30:00 PM	21.3299	21.3506			N/A
5/27/2019	EURMXN	3:30:00 PM	21.3172	21.3381			N/A
5/27/2019	EURMXN.fx	9:30:00 AM	21.3271	21.3248			N/A
5/27/2019	EURMXN.fx	11:30:00 AM	21.3306	21.3322			N/A
5/27/2019	EURMXN.fx	1:30:00 PM	21.3379	21.3424			N/A
5/27/2019	EURMXN.fx	3:30:00 PM	21.3259	21.3292			N/A
5/27/2019	EURNOK	9:30:00 AM	9.7296	9.7404			N/A
5/27/2019	EURNOK	11:30:00 AM	9.7334	9.7453			N/A
5/27/2019	EURNOK	1:30:00 PM	9.7456	9.7583			N/A
5/27/2019	EURNOK	3:30:00 PM	9.7488	9.7605			N/A
5/27/2019	EURNOK.fx	9:30:00 AM	9.73531	9.7348			N/A
5/27/2019	EURNOK.fx	11:30:00 AM	9.73901	9.7398			N/A
5/27/2019	EURNOK.fx	1:30:00 PM	9.7511	9.7526			N/A
5/27/2019	EURNOK.fx	3:30:00 PM	9.75414	9.7551			N/A
5/27/2019	EURNZD	9:30:00 AM	1.70923	1.70992			N/A
5/27/2019	EURNZD	11:30:00 AM	1.70945	1.71022			N/A
5/27/2019	EURNZD	1:30:00 PM	1.70965	1.71053			N/A
5/27/2019	EURNZD	3:30:00 PM	1.70991	1.71078			N/A
5/27/2019	EURNZD.fx	9:30:00 AM	1.70964	1.70951			N/A
5/27/2019	EURNZD.fx	11:30:00 AM	1.70987	1.70977			N/A
5/27/2019	EURNZD.fx	1:30:00 PM	1.71006	1.7101			N/A
5/27/2019	EURNZD.fx	3:30:00 PM	1.71032	1.71034			N/A
5/27/2019	EURPLN	9:30:00 AM	4.2903	4.2926			N/A
5/27/2019	EURPLN	11:30:00 AM	4.2922	4.2948			N/A
5/27/2019	EURPLN	1:30:00 PM	4.2941	4.2964			N/A
5/27/2019	EURPLN	3:30:00 PM	4.291	4.2942			N/A
5/27/2019	EURPLN.fx	9:30:00 AM	4.28942	4.29339			N/A
5/27/2019	EURPLN.fx	11:30:00 AM	4.29147	4.29559			N/A

5/27/2019	EURPLN.fx	1:30:00 PM					N/A
5/27/2019	EURPLN.fx	3:30:00 PM	4.29017	4.29492			N/A
5/27/2019	EURRUB	9:30:00 AM					N/A
5/27/2019	EURRUB	11:30:00 AM	71.8	72.236			N/A
5/27/2019	EURRUB	1:30:00 PM	71.778	72.218			N/A
5/27/2019	EURRUB	3:30:00 PM	71.831	72.273			N/A
5/27/2019	EURSEK	9:30:00 AM	10.6899	10.6941			N/A
5/27/2019	EURSEK	11:30:00 AM	10.6901	10.6947			N/A
5/27/2019	EURSEK	1:30:00 PM	10.708	10.7128			N/A
5/27/2019	EURSEK	3:30:00 PM	10.7222	10.7265			N/A
5/27/2019	EURSEK.fx	9:30:00 AM	10.69156	10.69244			N/A
5/27/2019	EURSEK.fx	11:30:00 AM	10.69176	10.69291			N/A
5/27/2019	EURSEK.fx	1:30:00 PM	10.70979	10.71094			N/A
5/27/2019	EURSEK.fx	3:30:00 PM	10.7237	10.72462			N/A
5/27/2019	EURSGD	9:30:00 AM	1.5394	1.5401			N/A
5/27/2019	EURSGD	11:30:00 AM	1.5381	1.5389			N/A
5/27/2019	EURSGD	1:30:00 PM	1.5384	1.5391			N/A
5/27/2019	EURSGD	3:30:00 PM	1.5386	1.5395			N/A
5/27/2019	EURSGD.fx	9:30:00 AM	1.53977	1.53972			N/A
5/27/2019	EURSGD.fx	11:30:00 AM	1.5384	1.53844			N/A
5/27/2019	EURSGD.fx	1:30:00 PM	1.5388	1.53887			N/A
5/27/2019	EURSGD.fx	3:30:00 PM	1.53898	1.53913			N/A
5/27/2019	EURUSD	9:30:00 AM	1.1203	1.12035			N/A
5/27/2019	EURUSD	11:30:00 AM	1.11908	1.11915			N/A
5/27/2019	EURUSD	1:30:00 PM	1.11923	1.11936			N/A
5/27/2019	EURUSD	3:30:00 PM	1.11939	1.11955			N/A
5/27/2019	EURUSD.fx	9:30:00 AM	1.12051	1.12044			N/A
5/27/2019	EURUSD.fx	11:30:00 AM	1.11928	1.11923			N/A
5/27/2019	EURUSD.fx	1:30:00 PM	1.11943	1.11945			N/A
5/27/2019	EURUSD.fx	3:30:00 PM	1.1196	1.11965			N/A
5/27/2019	EURZAR	9:30:00 AM	16.1249	16.1378			N/A
5/27/2019	EURZAR	11:30:00 AM	16.1356	16.155			N/A
5/27/2019	EURZAR	1:30:00 PM	16.1862	16.2061			N/A
5/27/2019	EURZAR	3:30:00 PM	16.1795	16.2005			N/A

5/27/2019	EURZAR.fx	9:30:00 AM	16.12397	16.13959			N/A
5/27/2019	EURZAR.fx	11:30:00 AM	16.13564	16.15553			N/A
5/27/2019	EURZAR.fx	1:30:00 PM	16.18537	16.20666			N/A
5/27/2019	EURZAR.fx	3:30:00 PM	16.1789	16.20109			N/A
5/27/2019	GBPAUD	9:30:00 AM	1.83768	1.83812			N/A
5/27/2019	GBPAUD	11:30:00 AM	1.8365	1.83723			N/A
5/27/2019	GBPAUD	1:30:00 PM	1.83161	1.83224			N/A
5/27/2019	GBPAUD	3:30:00 PM	1.83211	1.83235			N/A
5/27/2019	GBPAUD.fx	9:30:00 AM	1.83808	1.83772			N/A
5/27/2019	GBPAUD.fx	11:30:00 AM	1.83692	1.83683			N/A
5/27/2019	GBPAUD.fx	1:30:00 PM	1.83204	1.83183			N/A
5/27/2019	GBPAUD.fx	3:30:00 PM	1.83251	1.83195			N/A
5/27/2019	GBPCAD	9:30:00 AM	1.71098	1.71168			N/A
5/27/2019	GBPCAD	11:30:00 AM	1.70966	1.71041			N/A
5/27/2019	GBPCAD	1:30:00 PM	1.70547	1.70621			N/A
5/27/2019	GBPCAD	3:30:00 PM	1.70594	1.70622			N/A
5/27/2019	GBPCAD.fx	9:30:00 AM	1.71139	1.71131			N/A
5/27/2019	GBPCAD.fx	11:30:00 AM	1.71006	1.71002			N/A
5/27/2019	GBPCAD.fx	1:30:00 PM	1.70587	1.7058			N/A
5/27/2019	GBPCAD.fx	3:30:00 PM	1.70633	1.70579			N/A
5/27/2019	GBPCHF	9:30:00 AM	1.27852	1.2789			N/A
5/27/2019	GBPCHF	11:30:00 AM	1.27918	1.27961			N/A
5/27/2019	GBPCHF	1:30:00 PM	1.27428	1.27465			N/A
5/27/2019	GBPCHF	3:30:00 PM	1.27526	1.27545			N/A
5/27/2019	GBPCHF.fx	9:30:00 AM	1.27871	1.27871			N/A
5/27/2019	GBPCHF.fx	11:30:00 AM	1.27938	1.27941			N/A
5/27/2019	GBPCHF.fx	1:30:00 PM	1.27446	1.27445			N/A
5/27/2019	GBPCHF.fx	3:30:00 PM	1.27544	1.27523			N/A
5/27/2019	GBPCZK	9:30:00 AM	29.345	29.366			N/A
5/27/2019	GBPCZK	11:30:00 AM	29.319	29.326			N/A
5/27/2019	GBPCZK	1:30:00 PM	29.237	29.257			N/A
5/27/2019	GBPCZK	3:30:00 PM	29.24	29.256			N/A
5/27/2019	GBPDKK	9:30:00 AM	8.487	8.498			N/A
5/27/2019	GBPDKK	11:30:00 AM	8.482	8.492			N/A

5/27/2019	GBPDKK	1:30:00 PM	8.457	8.467			N/A
5/27/2019	GBPDKK	3:30:00 PM	8.458	8.468			N/A
5/27/2019	GBPDKK.fx	9:30:00 AM	8.4855	8.4979			N/A
5/27/2019	GBPDKK.fx	11:30:00 AM	8.4797	8.4922			N/A
5/27/2019	GBPDKK.fx	1:30:00 PM	8.455	8.4672			N/A
5/27/2019	GBPDKK.fx	3:30:00 PM	8.4576	8.4682			N/A
5/27/2019	GBPHKD	9:30:00 AM	9.9957	10.0014			N/A
5/27/2019	GBPHKD	11:30:00 AM	9.9774	9.9832			N/A
5/27/2019	GBPHKD	1:30:00 PM	9.9495	9.9547			N/A
5/27/2019	GBPHKD	3:30:00 PM	9.9548	9.9581			N/A
5/27/2019	GBPHUF	9:30:00 AM	369.59	370			N/A
5/27/2019	GBPHUF	11:30:00 AM	369.55	370.01			N/A
5/27/2019	GBPHUF	1:30:00 PM	368.58	369.03			N/A
5/27/2019	GBPHUF	3:30:00 PM	368.77	369.16			N/A
5/27/2019	GBPJPY	9:30:00 AM	139.545	139.569			N/A
5/27/2019	GBPJPY	11:30:00 AM	139.277	139.318			N/A
5/27/2019	GBPJPY	1:30:00 PM	138.801	138.839			N/A
5/27/2019	GBPJPY	3:30:00 PM	138.884	138.903			N/A
5/27/2019	GBPJPY.fx	9:30:00 AM	139.564	139.55			N/A
5/27/2019	GBPJPY.fx	11:30:00 AM	139.295	139.3			N/A
5/27/2019	GBPJPY.fx	1:30:00 PM	138.821	138.819			N/A
5/27/2019	GBPJPY.fx	3:30:00 PM	138.903	138.883			N/A
5/27/2019	GBPMXN	9:30:00 AM	24.2357	24.247			N/A
5/27/2019	GBPMXN	11:30:00 AM	24.2221	24.238			N/A
5/27/2019	GBPMXN	1:30:00 PM	24.162	24.1773			N/A
5/27/2019	GBPMXN	3:30:00 PM	24.1536	24.1647			N/A
5/27/2019	GBPNOK	9:30:00 AM	11.0645	11.0747			N/A
5/27/2019	GBPNOK	11:30:00 AM	11.0608	11.0721			N/A
5/27/2019	GBPNOK	1:30:00 PM	11.0428	11.0534			N/A
5/27/2019	GBPNOK	3:30:00 PM	11.0494	11.0567			N/A
5/27/2019	GBPNOK.fx	9:30:00 AM	11.06951	11.0699			N/A
5/27/2019	GBPNOK.fx	11:30:00 AM	11.06561	11.0671			N/A
5/27/2019	GBPNOK.fx	1:30:00 PM	11.04762	11.04849			N/A
5/27/2019	GBPNOK.fx	3:30:00 PM	11.05416	11.05206			N/A

5/27/2019	GBPNZD	9:30:00 AM	1.94364	1.94428			N/A
5/27/2019	GBPNZD	11:30:00 AM	1.94245	1.94313			N/A
5/27/2019	GBPNZD	1:30:00 PM	1.93701	1.93753			N/A
5/27/2019	GBPNZD	3:30:00 PM	1.93785	1.93819			N/A
5/27/2019	GBPNZD.fx	9:30:00 AM	1.94401	1.94388			N/A
5/27/2019	GBPNZD.fx	11:30:00 AM	1.94283	1.94274			N/A
5/27/2019	GBPNZD.fx	1:30:00 PM	1.93736	1.93718			N/A
5/27/2019	GBPNZD.fx	3:30:00 PM	1.93821	1.93783			N/A
5/27/2019	GBPPLN	9:30:00 AM	4.8795	4.8803			N/A
5/27/2019	GBPPLN	11:30:00 AM	4.8783	4.879			N/A
5/27/2019	GBPPLN	1:30:00 PM	4.8658	4.8674			N/A
5/27/2019	GBPPLN	3:30:00 PM	4.8635	4.8643			N/A
5/27/2019	GBPPLN.fx	9:30:00 AM	4.87717	4.88268			N/A
5/27/2019	GBPPLN.fx	11:30:00 AM	4.87604	4.8812			N/A
5/27/2019	GBPPLN.fx	1:30:00 PM	4.86385	4.86951			N/A
5/27/2019	GBPPLN.fx	3:30:00 PM	4.86114	4.86645			N/A
5/27/2019	GBPSEK	9:30:00 AM	12.1538	12.1615			N/A
5/27/2019	GBPSEK	11:30:00 AM	12.145	12.1536			N/A
5/27/2019	GBPSEK	1:30:00 PM	12.1294	12.1374			N/A
5/27/2019	GBPSEK	3:30:00 PM	12.1496	12.1546			N/A
5/27/2019	GBPSEK.fx	9:30:00 AM	12.14998	12.16515			N/A
5/27/2019	GBPSEK.fx	11:30:00 AM	12.14108	12.15695			N/A
5/27/2019	GBPSEK.fx	1:30:00 PM	12.12523	12.14094			N/A
5/27/2019	GBPSEK.fx	3:30:00 PM	12.14561	12.15816			N/A
5/27/2019	GBPSGD	9:30:00 AM	1.7505	1.7513			N/A
5/27/2019	GBPSGD	11:30:00 AM	1.7477	1.7485			N/A
5/27/2019	GBPSGD	1:30:00 PM	1.743	1.7437			N/A
5/27/2019	GBPSGD	3:30:00 PM	1.7436	1.7441			N/A
5/27/2019	GBPSGD.fx	9:30:00 AM	1.74868	1.75308			N/A
5/27/2019	GBPSGD.fx	11:30:00 AM	1.74586	1.75029			N/A
5/27/2019	GBPSGD.fx	1:30:00 PM	1.74118	1.74549			N/A
5/27/2019	GBPSGD.fx	3:30:00 PM	1.74191	1.7459			N/A
5/27/2019	GBPUSD	9:30:00 AM	1.27407	1.27402			N/A
5/27/2019	GBPUSD	11:30:00 AM	1.2718	1.27181	10000	10000	N/A

5/27/2019	GBPUSD	1:30:00 PM	1.26821	1.2682		N/A
5/27/2019	GBPUSD	3:30:00 PM	1.26876	1.26854		N/A
5/27/2019	GBPUSD.fx	9:30:00 AM	1.27411	1.27397		N/A
5/27/2019	GBPUSD.fx	11:30:00 AM	1.27179	1.27176		N/A
5/27/2019	GBPUSD.fx	1:30:00 PM	1.26826	1.26815		N/A
5/27/2019	GBPUSD.fx	3:30:00 PM	1.2688	1.26847		N/A
5/27/2019	GBPZAR	9:30:00 AM	18.3324	18.3542		N/A
5/27/2019	GBPZAR	11:30:00 AM	18.3314	18.3586		N/A
5/27/2019	GBPZAR	1:30:00 PM	18.3342	18.3616		N/A
5/27/2019	GBPZAR	3:30:00 PM	18.3331	18.3578		N/A
5/27/2019	GBPZAR.fx	9:30:00 AM	18.3383	18.3494		N/A
5/27/2019	GBPZAR.fx	11:30:00 AM	18.3398	18.3515		N/A
5/27/2019	GBPZAR.fx	1:30:00 PM	18.3415	18.3545		N/A
5/27/2019	GBPZAR.fx	3:30:00 PM	18.3398	18.35		N/A
5/27/2019	GOLD	9:30:00 AM	1286.08	1286.38		N/A
5/27/2019	GOLD	11:30:00 AM	1286.56	1286.99		N/A
5/27/2019	GOLD	1:30:00 PM	1285.79	1286.19		N/A
5/27/2019	GOLD	3:30:00 PM	1285.09	1285.34		N/A
5/27/2019	HKDJPY	9:30:00 AM	13.96	13.96		N/A
5/27/2019	HKDJPY	11:30:00 AM	13.95	13.96		N/A
5/27/2019	HKDJPY	1:30:00 PM				N/A
5/27/2019	HKDJPY	3:30:00 PM	13.95	13.97		N/A
5/27/2019	HKDJPY.fx	9:30:00 AM	13.951	13.956		N/A
5/27/2019	HKDJPY.fx	11:30:00 AM	13.949	13.957		N/A
5/27/2019	HKDJPY.fx	1:30:00 PM	13.94	13.948		N/A
5/27/2019	HKDJPY.fx	3:30:00 PM	13.943	13.95		N/A
5/27/2019	HUFJPY	9:30:00 AM	0.3776	0.3779		N/A
5/27/2019	HUFJPY	11:30:00 AM	0.3769	0.3772		N/A
5/27/2019	HUFJPY	1:30:00 PM	0.3765	0.3768		N/A
5/27/2019	HUFJPY	3:30:00 PM	0.3766	0.3769		N/A
5/27/2019	JP225.i	9:30:00 AM	21193.14	21208.14		N/A
5/27/2019	JP225.i	11:30:00 AM	21190.64	21208.14		N/A
5/27/2019	JP225.i	1:30:00 PM	21183.14	21200.64		N/A
5/27/2019	JP225.i	3:30:00 PM	21205.64	21223.14		N/A

5/27/2019	MXNJPY	9:30:00 AM	5.76	5.76			N/A
5/27/2019	MXNJPY	11:30:00 AM	5.75	5.76			N/A
5/27/2019	MXNJPY	1:30:00 PM					N/A
5/27/2019	MXNJPY	3:30:00 PM	5.75	5.77			N/A
5/27/2019	NASDAQ.i	9:30:00 AM					N/A
5/27/2019	NASDAQ.i	11:30:00 AM					N/A
5/27/2019	NASDAQ.i	1:30:00 PM					N/A
5/27/2019	NASDAQ.i	3:30:00 PM					N/A
5/27/2019	NOKJPY	9:30:00 AM	12.6	12.63			N/A
5/27/2019	NOKJPY	11:30:00 AM	12.58	12.61			N/A
5/27/2019	NOKJPY	1:30:00 PM	12.56	12.58			N/A
5/27/2019	NOKJPY	3:30:00 PM	12.56	12.59			N/A
5/27/2019	NOKJPY.fx	9:30:00 AM	12.605	12.61			N/A
5/27/2019	NOKJPY.fx	11:30:00 AM	12.583	12.591			N/A
5/27/2019	NOKJPY.fx	1:30:00 PM	12.56	12.569			N/A
5/27/2019	NOKJPY.fx	3:30:00 PM	12.563	12.57			N/A
5/27/2019	NZDCAD	9:30:00 AM	0.88004	0.88069			N/A
5/27/2019	NZDCAD	11:30:00 AM	0.87984	0.88052			N/A
5/27/2019	NZDCAD	1:30:00 PM	0.88014	0.88088			N/A
5/27/2019	NZDCAD	3:30:00 PM	0.87997	0.88066			N/A
5/27/2019	NZDCAD.fx	9:30:00 AM	0.88037	0.88036			N/A
5/27/2019	NZDCAD.fx	11:30:00 AM	0.88018	0.88019			N/A
5/27/2019	NZDCAD.fx	1:30:00 PM	0.88049	0.88053			N/A
5/27/2019	NZDCAD.fx	3:30:00 PM	0.88032	0.88033			N/A
5/27/2019	NZDCHF	9:30:00 AM	0.65747	0.65815			N/A
5/27/2019	NZDCHF	11:30:00 AM	0.65817	0.65889			N/A
5/27/2019	NZDCHF	1:30:00 PM	0.65751	0.65822			N/A
5/27/2019	NZDCHF	3:30:00 PM	0.65773	0.65846			N/A
5/27/2019	NZDCHF.fx	9:30:00 AM	0.6578	0.6578			N/A
5/27/2019	NZDCHF.fx	11:30:00 AM	0.65851	0.65854			N/A
5/27/2019	NZDCHF.fx	1:30:00 PM	0.65785	0.65787			N/A
5/27/2019	NZDCHF.fx	3:30:00 PM	0.65806	0.65809			N/A
5/27/2019	NZDCZK	9:30:00 AM	15.095	15.106			N/A
5/27/2019	NZDCZK	11:30:00 AM	15.089	15.095			N/A

5/27/2019	NZDCZK	1:30:00 PM	15.089	15.102			N/A
5/27/2019	NZDCZK	3:30:00 PM	15.085	15.098			N/A
5/27/2019	NZDDKK	9:30:00 AM					N/A
5/27/2019	NZDDKK	11:30:00 AM					N/A
5/27/2019	NZDDKK	1:30:00 PM					N/A
5/27/2019	NZDDKK	3:30:00 PM					N/A
5/27/2019	NZDHKD	9:30:00 AM	5.1414	5.1443			N/A
5/27/2019	NZDHKD	11:30:00 AM	5.1356	5.1383			N/A
5/27/2019	NZDHKD	1:30:00 PM	5.1351	5.1379			N/A
5/27/2019	NZDHKD	3:30:00 PM	5.1352	5.1381			N/A
5/27/2019	NZDHUF	9:30:00 AM	190.08	190.35			N/A
5/27/2019	NZDHUF	11:30:00 AM	190.17	190.46			N/A
5/27/2019	NZDHUF	1:30:00 PM	190.21	190.5			N/A
5/27/2019	NZDHUF	3:30:00 PM	190.21	190.51			N/A
5/27/2019	NZDJPY	9:30:00 AM	71.766	71.819			N/A
5/27/2019	NZDJPY	11:30:00 AM	71.666	71.734			N/A
5/27/2019	NZDJPY	1:30:00 PM	71.617	71.693			N/A
5/27/2019	NZDJPY	3:30:00 PM	71.633	71.707			N/A
5/27/2019	NZDJPY.fx	9:30:00 AM	71.798	71.786			N/A
5/27/2019	NZDJPY.fx	11:30:00 AM	71.698	71.701			N/A
5/27/2019	NZDJPY.fx	1:30:00 PM	71.649	71.66			N/A
5/27/2019	NZDJPY.fx	3:30:00 PM	71.664	71.673			N/A
5/27/2019	NZDMXN	9:30:00 AM	12.4669	12.471			N/A
5/27/2019	NZDMXN	11:30:00 AM	12.467	12.4739			N/A
5/27/2019	NZDMXN	1:30:00 PM	12.4709	12.4774			N/A
5/27/2019	NZDMXN	3:30:00 PM	12.4607	12.4676			N/A
5/27/2019	NZDNOK	9:30:00 AM	5.6912	5.6944			N/A
5/27/2019	NZDNOK	11:30:00 AM	5.6924	5.6959			N/A
5/27/2019	NZDNOK	1:30:00 PM	5.6983	5.7021			N/A
5/27/2019	NZDNOK	3:30:00 PM	5.6994	5.7031			N/A
5/27/2019	NZDPLN	9:30:00 AM	2.5092	2.5106			N/A
5/27/2019	NZDPLN	11:30:00 AM	2.5096	2.511			N/A
5/27/2019	NZDPLN	1:30:00 PM	2.5103	2.5117			N/A
5/27/2019	NZDPLN	3:30:00 PM	2.5086	2.51			N/A

5/27/2019	NZDSEK	9:30:00 AM	6.2486	6.255			N/A
5/27/2019	NZDSEK	11:30:00 AM	6.2474	6.2542			N/A
5/27/2019	NZDSEK	1:30:00 PM	6.2569	6.2633			N/A
5/27/2019	NZDSEK	3:30:00 PM	6.2644	6.271			N/A
5/27/2019	NZDSGD	9:30:00 AM	0.9004	0.901			N/A
5/27/2019	NZDSGD	11:30:00 AM	0.8995	0.8997			N/A
5/27/2019	NZDSGD	1:30:00 PM	0.8996	0.9002			N/A
5/27/2019	NZDSGD	3:30:00 PM	0.8995	0.9002			N/A
5/27/2019	NZDSGD.fx	9:30:00 AM	0.90039	0.90094			N/A
5/27/2019	NZDSGD.fx	11:30:00 AM	0.89948	0.90004			N/A
5/27/2019	NZDSGD.fx	1:30:00 PM	0.89958	0.90016			N/A
5/27/2019	NZDSGD.fx	3:30:00 PM	0.89952	0.90017			N/A
5/27/2019	NZDUSD	9:30:00 AM	0.65533	0.65539			N/A
5/27/2019	NZDUSD	11:30:00 AM	0.65451	0.65463			N/A
5/27/2019	NZDUSD	1:30:00 PM	0.65449	0.65466			N/A
5/27/2019	NZDUSD	3:30:00 PM	0.65449	0.65466			N/A
5/27/2019	NZDUSD.fx	9:30:00 AM	0.6554	0.6554			N/A
5/27/2019	NZDUSD.fx	11:30:00 AM	0.65458	0.65465			N/A
5/27/2019	NZDUSD.fx	1:30:00 PM	0.65457	0.65467			N/A
5/27/2019	NZDUSD.fx	3:30:00 PM	0.65456	0.65468			N/A
5/27/2019	NZDZAR	9:30:00 AM	9.424	9.4359			N/A
5/27/2019	NZDZAR	11:30:00 AM	9.43	9.4466			N/A
5/27/2019	NZDZAR	1:30:00 PM	9.4579	9.4741			N/A
5/27/2019	NZDZAR	3:30:00 PM	9.452	9.4699			N/A
5/27/2019	SEKJPY	9:30:00 AM	11.48	11.49			N/A
5/27/2019	SEKJPY	11:30:00 AM	11.47	11.48			N/A
5/27/2019	SEKJPY	1:30:00 PM					N/A
5/27/2019	SEKJPY	3:30:00 PM	11.43	11.44			N/A
5/27/2019	SEKJPY.fx	9:30:00 AM	11.47	11.487			N/A
5/27/2019	SEKJPY.fx	11:30:00 AM	11.456	11.475			N/A
5/27/2019	SEKJPY.fx	1:30:00 PM	11.431	11.45			N/A
5/27/2019	SEKJPY.fx	3:30:00 PM	11.42	11.438			N/A
5/27/2019	SGDJPY	9:30:00 AM	79.68	79.7			N/A
5/27/2019	SGDJPY	11:30:00 AM	79.67	79.69			N/A

5/27/2019	SGDJPY	1:30:00 PM	79.64	79.63			N/A
5/27/2019	SGDJPY	3:30:00 PM	79.63	79.65			N/A
5/27/2019	SILVER	9:30:00 AM	14.41	14.79			N/A
5/27/2019	SILVER	11:30:00 AM	14.42	14.79			N/A
5/27/2019	SILVER	1:30:00 PM	14.39	14.77			N/A
5/27/2019	SILVER	3:30:00 PM	14.38	14.76			N/A
5/27/2019	SPX500.i	9:30:00 AM	2833.06	2832.86			N/A
5/27/2019	SPX500.i	11:30:00 AM	2832.81	2833.49			N/A
5/27/2019	SPX500.i	1:30:00 PM	2827.81	2828.86			N/A
5/27/2019	SPX500.i	3:30:00 PM	2830.06	2830.61			N/A
5/27/2019	UK100.i	9:30:00 AM	7296.3	7296.9			N/A
5/27/2019	UK100.i	11:30:00 AM	7295.82	7297.74			N/A
5/27/2019	UK100.i	1:30:00 PM	7286.34	7288.86			N/A
5/27/2019	UK100.i	3:30:00 PM	7293.38	7295.06			N/A
5/27/2019	USDCAD	9:30:00 AM	1.34327	1.34319			N/A
5/27/2019	USDCAD	11:30:00 AM	1.3446	1.34468			N/A
5/27/2019	USDCAD	1:30:00 PM	1.34503	1.3452			N/A
5/27/2019	USDCAD	3:30:00 PM	1.3448	1.34489			N/A
5/27/2019	USDCAD.fx	9:30:00 AM	1.34329	1.34316			N/A
5/27/2019	USDCAD.fx	11:30:00 AM	1.34462	1.34465			N/A
5/27/2019	USDCAD.fx	1:30:00 PM	1.34506	1.34517			N/A
5/27/2019	USDCAD.fx	3:30:00 PM	1.34482	1.34485			N/A
5/27/2019	USDCHF	9:30:00 AM	1.0036	1.00373			N/A
5/27/2019	USDCHF	11:30:00 AM	1.00593	1.00605			N/A
5/27/2019	USDCHF	1:30:00 PM	1.00492	1.00501			N/A
5/27/2019	USDCHF	3:30:00 PM	1.00527	1.00538			N/A
5/27/2019	USDCHF.fx	9:30:00 AM	1.00364	1.00367			N/A
5/27/2019	USDCHF.fx	11:30:00 AM	1.00598	1.00599			N/A
5/27/2019	USDCHF.fx	1:30:00 PM	1.00498	1.00495			N/A
5/27/2019	USDCHF.fx	3:30:00 PM	1.00532	1.00532			N/A
5/27/2019	USDCZK	9:30:00 AM	23.052	23.073			N/A
5/27/2019	USDCZK	11:30:00 AM	23.074	23.083			N/A
5/27/2019	USDCZK	1:30:00 PM	23.072	23.094			N/A
5/27/2019	USDCZK	3:30:00 PM	23.064	23.087			N/A

5/27/2019	USDCZK.fx	9:30:00 AM	23.0605	23.0659			N/A
5/27/2019	USDCZK.fx	11:30:00 AM	23.082	23.0741			N/A
5/27/2019	USDCZK.fx	1:30:00 PM	23.0796	23.0872			N/A
5/27/2019	USDCZK.fx	3:30:00 PM	23.072	23.079			N/A
5/27/2019	USDDKK	9:30:00 AM	6.6641	6.6678			N/A
5/27/2019	USDDKK	11:30:00 AM	6.6713	6.675			N/A
5/27/2019	USDDKK	1:30:00 PM	6.6705	6.6745			N/A
5/27/2019	USDDKK	3:30:00 PM	6.6693	6.6737			N/A
5/27/2019	USDDKK.fx	9:30:00 AM	6.66447	6.66568			N/A
5/27/2019	USDDKK.fx	11:30:00 AM	6.67177	6.67307			N/A
5/27/2019	USDDKK.fx	1:30:00 PM	6.67087	6.67248			N/A
5/27/2019	USDDKK.fx	3:30:00 PM	6.66994	6.67162			N/A
5/27/2019	USDHKD	9:30:00 AM	7.849	7.8493			N/A
5/27/2019	USDHKD	11:30:00 AM	7.8493	7.8496			N/A
5/27/2019	USDHKD	1:30:00 PM	7.8486	7.8491			N/A
5/27/2019	USDHKD	3:30:00 PM	7.8493	7.8498			N/A
5/27/2019	USDHKD.fx	9:30:00 AM	7.84912	7.84969			N/A
5/27/2019	USDHKD.fx	11:30:00 AM	7.84927	7.84973			N/A
5/27/2019	USDHKD.fx	1:30:00 PM	7.84908	7.84966			N/A
5/27/2019	USDHKD.fx	3:30:00 PM	7.84927	7.84981			N/A
5/27/2019	USDHUF	9:30:00 AM	290.16	290.57			N/A
5/27/2019	USDHUF	11:30:00 AM	290.67	291.15			N/A
5/27/2019	USDHUF	1:30:00 PM	290.72	291.19			N/A
5/27/2019	USDHUF	3:30:00 PM	290.74	291.23			N/A
5/27/2019	USDHUF.fx	9:30:00 AM	290.347	290.39			N/A
5/27/2019	USDHUF.fx	11:30:00 AM	290.858	290.957			N/A
5/27/2019	USDHUF.fx	1:30:00 PM	290.932	291			N/A
5/27/2019	USDHUF.fx	3:30:00 PM	290.925	291.045			N/A
5/27/2019	USDINR	9:30:00 AM	64.45	74.44			N/A
5/27/2019	USDINR	11:30:00 AM	64.6	74.57			N/A
5/27/2019	USDINR	1:30:00 PM					N/A
5/27/2019	USDINR	3:30:00 PM					N/A
5/27/2019	USDJPY	9:30:00 AM	109.539	109.529			N/A
5/27/2019	USDJPY	11:30:00 AM	109.522	109.537			N/A

5/27/2019	USDJPY	1:30:00 PM	109.453	109.47			N/A
5/27/2019	USDJPY	3:30:00 PM	109.476	109.489			N/A
5/27/2019	USDJPY.fx	9:30:00 AM	109.545	109.522			N/A
5/27/2019	USDJPY.fx	11:30:00 AM	109.527	109.53			N/A
5/27/2019	USDJPY.fx	1:30:00 PM	109.458	109.463			N/A
5/27/2019	USDJPY.fx	3:30:00 PM	109.481	109.482			N/A
5/27/2019	USDMXN	9:30:00 AM	19.03	19.035			N/A
5/27/2019	USDMXN	11:30:00 AM	19.054	19.062			N/A
5/27/2019	USDMXN	1:30:00 PM					N/A
5/27/2019	USDMXN	3:30:00 PM	19.044	19.053			N/A
5/27/2019	USDMXN.f	9:30:00 AM	19.0351	19.0312			N/A
5/27/2019	USDMXN.f	11:30:00 AM	19.0577	19.0578			N/A
5/27/2019	USDMXN.f	1:30:00 PM	19.0617	19.0642			N/A
5/27/2019	USDMXN.f	3:30:00 PM	19.0474	19.0495			N/A
5/27/2019	USDNOK	9:30:00 AM	8.685	8.6923			N/A
5/27/2019	USDNOK	11:30:00 AM	8.6975	8.7062			N/A
5/27/2019	USDNOK	1:30:00 PM	8.7072	8.7162			N/A
5/27/2019	USDNOK	3:30:00 PM	8.7086	8.7167			N/A
5/27/2019	USDNOK.fx	9:30:00 AM	8.689	8.6878			N/A
5/27/2019	USDNOK.fx	11:30:00 AM	8.70142	8.70156			N/A
5/27/2019	USDNOK.fx	1:30:00 PM	8.71133	8.71166			N/A
5/27/2019	USDNOK.fx	3:30:00 PM	8.71252	8.71234			N/A
5/27/2019	USDPLN	9:30:00 AM	3.8298	3.8306			N/A
5/27/2019	USDPLN	11:30:00 AM	3.8356	3.8365			N/A
5/27/2019	USDPLN	1:30:00 PM	3.8366	3.8383			N/A
5/27/2019	USDPLN	3:30:00 PM	3.8332	3.8348			N/A
5/27/2019	USDPLN.fx	9:30:00 AM	3.82886	3.83142			N/A
5/27/2019	USDPLN.fx	11:30:00 AM	3.83478	3.83724			N/A
5/27/2019	USDPLN.fx	1:30:00 PM	3.83586	3.83891			N/A
5/27/2019	USDPLN.fx	3:30:00 PM	3.83238	3.83553			N/A
5/27/2019	USDRUB	9:30:00 AM					N/A
5/27/2019	USDRUB	11:30:00 AM	64.264	64.65			N/A
5/27/2019	USDRUB	1:30:00 PM	64.233	64.622			N/A
5/27/2019	USDRUB	3:30:00 PM	64.27	64.665			N/A

5/27/2019	USDSEK	9:30:00 AM	9.5403	9.5444			N/A
5/27/2019	USDSEK	11:30:00 AM	9.5503	9.5544			N/A
5/27/2019	USDSEK	1:30:00 PM	9.5649	9.5694			N/A
5/27/2019	USDSEK	3:30:00 PM	9.5763	9.5805			N/A
5/27/2019	USDSEK.fx	9:30:00 AM	9.54307	9.5426			N/A
5/27/2019	USDSEK.fx	11:30:00 AM	9.55298	9.55249			N/A
5/27/2019	USDSEK.fx	1:30:00 PM	9.56747	9.56746			N/A
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5/27/2019	USDSGD	11:30:00 AM	1.3743	1.3745			N/A
5/27/2019	USDSGD	1:30:00 PM	1.3745	1.3748			N/A
5/27/2019	USDSGD	3:30:00 PM	1.3745	1.3748			N/A
5/27/2019	USDSGD.fx	9:30:00 AM	1.37404	1.37442			N/A
5/27/2019	USDSGD.fx	11:30:00 AM	1.37422	1.37473			N/A
5/27/2019	USDSGD.fx	1:30:00 PM	1.37439	1.37486			N/A
5/27/2019	USDSGD.fx	3:30:00 PM	1.37437	1.37489			N/A
5/27/2019	USDZAR	9:30:00 AM	14.3916	14.4028			N/A
5/27/2019	USDZAR	11:30:00 AM	14.4159	14.4336			N/A
5/27/2019	USDZAR	1:30:00 PM	14.4586	14.477			N/A
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5/27/2019	XAUUSD	11:30:00 AM	1286.56	1286.99			N/A
5/27/2019	XAUUSD	1:30:00 PM	1285.8	1286.2			N/A
5/27/2019	XAUUSD	3:30:00 PM	1285.11	1285.34			N/A
5/27/2019	ZARJPY	9:30:00 AM	7.58	7.61			N/A
5/27/2019	ZARJPY	11:30:00 AM	7.57	7.59			N/A
5/27/2019	ZARJPY	1:30:00 PM	7.54	7.57			N/A
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5/28/2019	#NTDOY	3:30:00 PM					N/A
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5/28/2019	#Ripple	11:30:00 AM	0.4252	0.429			N/A
5/28/2019	#Ripple	1:30:00 PM	0.4249	0.4298			N/A
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5/28/2019	#SBUX	1:30:00 PM					N/A
5/28/2019	#SBUX	3:30:00 PM					N/A
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5/28/2019	#SNE	3:30:00 PM					N/A
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5/28/2019	#TSCO	3:30:00 PM					N/A
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5/28/2019	#UBS	1:30:00 PM					N/A
5/28/2019	#UBS	3:30:00 PM					N/A
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5/28/2019	#UPS	3:30:00 PM					N/A
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5/28/2019	#YHOO	11:30:00 AM					N/A
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5/28/2019	#YHOO	3:30:00 PM					N/A

5/28/2019	#ZNGA	9:30:00 AM					N/A
5/28/2019	#ZNGA	11:30:00 AM					N/A
5/28/2019	#ZNGA	1:30:00 PM					N/A
5/28/2019	#ZNGA	3:30:00 PM					N/A
5/28/2019	AUDCAD	9:30:00 AM	0.93024	0.93093			N/A
5/28/2019	AUDCAD	11:30:00 AM	0.93037	0.93102			N/A
5/28/2019	AUDCAD	1:30:00 PM	0.93177	0.93235			N/A
5/28/2019	AUDCAD	3:30:00 PM	0.93203	0.93266			N/A
5/28/2019	AUDCAD.fx	9:30:00 AM	0.93056	0.93059			N/A
5/28/2019	AUDCAD.fx	11:30:00 AM	0.9307	0.93065			N/A
5/28/2019	AUDCAD.fx	1:30:00 PM	0.9321	0.93198			N/A
5/28/2019	AUDCAD.fx	3:30:00 PM	0.93238	0.93231			N/A
5/28/2019	AUDCHF	9:30:00 AM	0.69511	0.69577			N/A
5/28/2019	AUDCHF	11:30:00 AM	0.69428	0.69493			N/A
5/28/2019	AUDCHF	1:30:00 PM	0.69466	0.69506			N/A
5/28/2019	AUDCHF	3:30:00 PM	0.69602	0.69671			N/A
5/28/2019	AUDCHF.fx	9:30:00 AM	0.69546	0.69542			N/A
5/28/2019	AUDCHF.fx	11:30:00 AM	0.69462	0.69458			N/A
5/28/2019	AUDCHF.fx	1:30:00 PM	0.69501	0.6947			N/A
5/28/2019	AUDCHF.fx	3:30:00 PM	0.69637	0.69635			N/A
5/28/2019	AUDCZK	9:30:00 AM	15.97	15.986			N/A
5/28/2019	AUDCZK	11:30:00 AM	15.95	15.966			N/A
5/28/2019	AUDCZK	1:30:00 PM	15.97	15.983			N/A
5/28/2019	AUDCZK	3:30:00 PM	15.968	15.984			N/A
5/28/2019	AUDDKK	9:30:00 AM	4.6201	4.6249			N/A
5/28/2019	AUDDKK	11:30:00 AM	4.6136	4.6183			N/A
5/28/2019	AUDDKK	1:30:00 PM	4.6173	4.6209			N/A
5/28/2019	AUDDKK	3:30:00 PM	4.6177	4.6223			N/A
5/28/2019	AUDHKD	9:30:00 AM	5.4317	5.4356			N/A
5/28/2019	AUDHKD	11:30:00 AM	5.4263	5.4302			N/A
5/28/2019	AUDHKD	1:30:00 PM	5.4285	5.4312			N/A
5/28/2019	AUDHKD	3:30:00 PM	5.4297	5.4336			N/A
5/28/2019	AUDHUF	9:30:00 AM	201.42	201.64			N/A
5/28/2019	AUDHUF	11:30:00 AM	201.53	201.69			N/A

5/28/2019	AUDHUF	1:30:00 PM	201.84	202.05			N/A
5/28/2019	AUDHUF	3:30:00 PM	201.99	202.22			N/A
5/28/2019	AUDJPY	9:30:00 AM	75.768	75.841			N/A
5/28/2019	AUDJPY	11:30:00 AM	75.551	75.608	20000	20000	N/A
5/28/2019	AUDJPY	1:30:00 PM	75.639	75.685			N/A
5/28/2019	AUDJPY	3:30:00 PM	75.784	75.842			N/A
5/28/2019	AUDJPY.fx	9:30:00 AM	75.802	75.806			N/A
5/28/2019	AUDJPY.fx	11:30:00 AM	75.585	75.572			N/A
5/28/2019	AUDJPY.fx	1:30:00 PM	75.673	75.649			N/A
5/28/2019	AUDJPY.fx	3:30:00 PM	75.819	75.807			N/A
5/28/2019	AUDMXN	9:30:00 AM	13.1907	13.1979			N/A
5/28/2019	AUDMXN	11:30:00 AM	13.2005	13.2095			N/A
5/28/2019	AUDMXN	1:30:00 PM	13.2216	13.2285			N/A
5/28/2019	AUDMXN	3:30:00 PM	13.2084	13.2182			N/A
5/28/2019	AUDNOK	9:30:00 AM	6.0241	6.0292			N/A
5/28/2019	AUDNOK	11:30:00 AM	6.0104	6.0151			N/A
5/28/2019	AUDNOK	1:30:00 PM	6.0196	6.0234			N/A
5/28/2019	AUDNOK	3:30:00 PM	6.01	6.0147			N/A
5/28/2019	AUDNOK.fx	9:30:00 AM	6.0256	6.0276			N/A
5/28/2019	AUDNOK.fx	11:30:00 AM	6.012	6.0133			N/A
5/28/2019	AUDNOK.fx	1:30:00 PM	6.0212	6.0216			N/A
5/28/2019	AUDNOK.fx	3:30:00 PM	6.0116	6.013			N/A
5/28/2019	AUDNZD	9:30:00 AM	1.05608	1.05692			N/A
5/28/2019	AUDNZD	11:30:00 AM	1.05549	1.05638			N/A
5/28/2019	AUDNZD	1:30:00 PM	1.0562	1.05694			N/A
5/28/2019	AUDNZD	3:30:00 PM	1.05718	1.0581			N/A
5/28/2019	AUDNZD.fx	9:30:00 AM	1.05652	1.05648			N/A
5/28/2019	AUDNZD.fx	11:30:00 AM	1.05592	1.05593			N/A
5/28/2019	AUDNZD.fx	1:30:00 PM	1.05664	1.05647			N/A
5/28/2019	AUDNZD.fx	3:30:00 PM	1.05761	1.05766			N/A
5/28/2019	AUDPLN	9:30:00 AM	2.6555	2.6578			N/A
5/28/2019	AUDPLN	11:30:00 AM	2.6552	2.6575			N/A
5/28/2019	AUDPLN	1:30:00 PM	2.6558	2.6587			N/A
5/28/2019	AUDPLN	3:30:00 PM	2.6563	2.6594			N/A

5/28/2019	AUDSEK	9:30:00 AM	6.629	6.6313			N/A
5/28/2019	AUDSEK	11:30:00 AM	6.6034	6.6066			N/A
5/28/2019	AUDSEK	1:30:00 PM	6.6203	6.6223			N/A
5/28/2019	AUDSEK	3:30:00 PM	6.6108	6.6133			N/A
5/28/2019	AUDSEK.fx	9:30:00 AM	6.6245	6.6357			N/A
5/28/2019	AUDSEK.fx	11:30:00 AM	6.5988	6.611			N/A
5/28/2019	AUDSEK.fx	1:30:00 PM	6.6157	6.6266			N/A
5/28/2019	AUDSEK.fx	3:30:00 PM	6.6062	6.6177			N/A
5/28/2019	AUDSGD	9:30:00 AM	0.9532	0.9534			N/A
5/28/2019	AUDSGD	11:30:00 AM	0.953	0.9532			N/A
5/28/2019	AUDSGD	1:30:00 PM	0.9534	0.9535			N/A
5/28/2019	AUDSGD	3:30:00 PM	0.9538	0.9539			N/A
5/28/2019	AUDSGD.fx	9:30:00 AM	0.95323	0.95335			N/A
5/28/2019	AUDSGD.fx	11:30:00 AM	0.95306	0.95313			N/A
5/28/2019	AUDSGD.fx	1:30:00 PM	0.95349	0.95337			N/A
5/28/2019	AUDSGD.fx	3:30:00 PM	0.95387	0.95395			N/A
5/28/2019	AUDUSD	9:30:00 AM	0.69242	0.69252			N/A
5/28/2019	AUDUSD	11:30:00 AM	0.69167	0.69176			N/A
5/28/2019	AUDUSD	1:30:00 PM	0.69202	0.69195			N/A
5/28/2019	AUDUSD	3:30:00 PM	0.69212	0.69225			N/A
5/28/2019	AUDUSD.fx	9:30:00 AM	0.69246	0.69246			N/A
5/28/2019	AUDUSD.fx	11:30:00 AM	0.69172	0.69171			N/A
5/28/2019	AUDUSD.fx	1:30:00 PM	0.69207	0.69189			N/A
5/28/2019	AUDUSD.fx	3:30:00 PM	0.69217	0.69219			N/A
5/28/2019	AUDZAR	9:30:00 AM	10.0076	10.012			N/A
5/28/2019	AUDZAR	11:30:00 AM	10.0768	10.0898			N/A
5/28/2019	AUDZAR	1:30:00 PM	10.108	10.1179			N/A
5/28/2019	AUDZAR	3:30:00 PM	10.1127	10.1258			N/A
5/28/2019	AUS200.i	9:30:00 AM					N/A
5/28/2019	AUS200.i	11:30:00 AM	6466.25	6469.35			N/A
5/28/2019	AUS200.i	1:30:00 PM	6460.95	6463.95			N/A
5/28/2019	AUS200.i	3:30:00 PM	6478.95	6482			N/A
5/28/2019	BCHUSD	9:30:00 AM	441.11	441.4			N/A
5/28/2019	BCHUSD	11:30:00 AM	442.41	444.17			N/A

5/28/2019	BCHUSD	1:30:00 PM	442.71	444.12			N/A
5/28/2019	BCHUSD	3:30:00 PM	444.59	446.5			N/A
5/28/2019	CADCHF	9:30:00 AM	0.74697	0.74764			N/A
5/28/2019	CADCHF	11:30:00 AM	0.74599	0.74661			N/A
5/28/2019	CADCHF	1:30:00 PM	0.74519	0.74575			N/A
5/28/2019	CADCHF	3:30:00 PM	0.74657	0.74722			N/A
5/28/2019	CADCHF.fx	9:30:00 AM	0.74731	0.74728			N/A
5/28/2019	CADCHF.fx	11:30:00 AM	0.74635	0.74626			N/A
5/28/2019	CADCHF.fx	1:30:00 PM	0.74557	0.74539			N/A
5/28/2019	CADCHF.fx	3:30:00 PM	0.74691	0.74686			N/A
5/28/2019	CADCZK	9:30:00 AM	17.165	17.181			N/A
5/28/2019	CADCZK	11:30:00 AM	17.141	17.157			N/A
5/28/2019	CADCZK	1:30:00 PM	17.136	17.152			N/A
5/28/2019	CADCZK	3:30:00 PM	17.131	17.147			N/A
5/28/2019	CADDKK	9:30:00 AM	4.966	4.97			N/A
5/28/2019	CADDKK	11:30:00 AM	4.958	4.962			N/A
5/28/2019	CADDKK	1:30:00 PM	4.955	4.958			N/A
5/28/2019	CADDKK	3:30:00 PM					N/A
5/28/2019	CADHKD	9:30:00 AM	5.8383	5.8423			N/A
5/28/2019	CADHKD	11:30:00 AM	5.8318	5.8352			N/A
5/28/2019	CADHKD	1:30:00 PM	5.8248	5.8286			N/A
5/28/2019	CADHKD	3:30:00 PM	5.825	5.8283			N/A
5/28/2019	CADHUF	9:30:00 AM	216.52	216.68			N/A
5/28/2019	CADHUF	11:30:00 AM	216.61	216.7			N/A
5/28/2019	CADHUF	1:30:00 PM	216.63	216.76			N/A
5/28/2019	CADHUF	3:30:00 PM	216.72	216.89			N/A
5/28/2019	CADJPY	9:30:00 AM	81.423	81.496			N/A
5/28/2019	CADJPY	11:30:00 AM	81.186	81.23			N/A
5/28/2019	CADJPY	1:30:00 PM	81.148	81.207			N/A
5/28/2019	CADJPY	3:30:00 PM	81.29	81.342			N/A
5/28/2019	CADJPY.fx	9:30:00 AM	81.456	81.461			N/A
5/28/2019	CADJPY.fx	11:30:00 AM	81.22	81.195			N/A
5/28/2019	CADJPY.fx	1:30:00 PM	81.182	81.172			N/A
5/28/2019	CADJPY.fx	3:30:00 PM	81.324	81.307			N/A

5/28/2019	CADMXN	9:30:00 AM	14.1771	14.1862			N/A
5/28/2019	CADMXN	11:30:00 AM	14.1854	14.1972			N/A
5/28/2019	CADMXN	1:30:00 PM	14.1857	14.1974			N/A
5/28/2019	CADMXN	3:30:00 PM	14.1696	14.1805			N/A
5/28/2019	CADNOK	9:30:00 AM	6.472	6.4769			N/A
5/28/2019	CADNOK	11:30:00 AM	6.4572	6.4621			N/A
5/28/2019	CADNOK	1:30:00 PM	6.4574	6.4619			N/A
5/28/2019	CADNOK	3:30:00 PM	6.4458	6.45			N/A
5/28/2019	CADPLN	9:30:00 AM	2.854	2.8553			N/A
5/28/2019	CADPLN	11:30:00 AM	2.853	2.8548			N/A
5/28/2019	CADPLN	1:30:00 PM	2.8498	2.8515			N/A
5/28/2019	CADPLN	3:30:00 PM	2.8494	2.8514			N/A
5/28/2019	CADSEK	9:30:00 AM	7.1219	7.125			N/A
5/28/2019	CADSEK	11:30:00 AM	7.0931	7.097			N/A
5/28/2019	CADSEK	1:30:00 PM	7.1013	7.1046			N/A
5/28/2019	CADSEK	3:30:00 PM	7.0885	7.0923			N/A
5/28/2019	CADSGD	9:30:00 AM	1.0239	1.0242			N/A
5/28/2019	CADSGD	11:30:00 AM	1.0235	1.0238			N/A
5/28/2019	CADSGD	1:30:00 PM	1.0223	1.0226			N/A
5/28/2019	CADSGD	3:30:00 PM	1.0224	1.0227			N/A
5/28/2019	CADZAR	9:30:00 AM	10.7549	10.7608			N/A
5/28/2019	CADZAR	11:30:00 AM	10.8284	10.8425			N/A
5/28/2019	CADZAR	1:30:00 PM	10.847	10.8593			N/A
5/28/2019	CADZAR	3:30:00 PM	10.8479	10.8622			N/A
5/28/2019	CHFCZK	9:30:00 AM	22.974	22.99			N/A
5/28/2019	CHFCZK	11:30:00 AM	22.972	22.989			N/A
5/28/2019	CHFCZK	1:30:00 PM	22.993	23.003			N/A
5/28/2019	CHFCZK	3:30:00 PM	22.94	22.958			N/A
5/28/2019	CHFDKK	9:30:00 AM	6.648	6.651			N/A
5/28/2019	CHFDKK	11:30:00 AM	6.646	6.649			N/A
5/28/2019	CHFDKK	1:30:00 PM	6.649	6.649			N/A
5/28/2019	CHFDKK	3:30:00 PM	6.635	6.638			N/A
5/28/2019	CHFDKK.fx	9:30:00 AM	6.6462	6.6521			N/A
5/28/2019	CHFDKK.fx	11:30:00 AM	6.6444	6.6502			N/A

5/28/2019	CHFDKK.fx	1:30:00 PM	6.6477	6.6518			N/A
5/28/2019	CHFDKK.fx	3:30:00 PM	6.6334	6.6396			N/A
5/28/2019	CHFHKD	9:30:00 AM	7.8135	7.8175			N/A
5/28/2019	CHFHKD	11:30:00 AM	7.815	7.8183			N/A
5/28/2019	CHFHKD	1:30:00 PM	7.8155	7.8169			N/A
5/28/2019	CHFHKD	3:30:00 PM	7.7993	7.8032			N/A
5/28/2019	CHFHUF	9:30:00 AM	289.67	290.05			N/A
5/28/2019	CHFHUF	11:30:00 AM	290.18	290.48			N/A
5/28/2019	CHFHUF	1:30:00 PM	290.57	290.8			N/A
5/28/2019	CHFHUF	3:30:00 PM	290.1	290.46			N/A
5/28/2019	CHFJPY	9:30:00 AM	108.968	109.029			N/A
5/28/2019	CHFJPY	11:30:00 AM	108.789	108.824			N/A
5/28/2019	CHFJPY	1:30:00 PM	108.863	108.913			N/A
5/28/2019	CHFJPY	3:30:00 PM	108.835	108.897			N/A
5/28/2019	CHFJPY.fx	9:30:00 AM	109.001	108.992			N/A
5/28/2019	CHFJPY.fx	11:30:00 AM	108.823	108.788			N/A
5/28/2019	CHFJPY.fx	1:30:00 PM	108.898	108.878			N/A
5/28/2019	CHFJPY.fx	3:30:00 PM	108.871	108.861			N/A
5/28/2019	CHFMXN	9:30:00 AM	18.9714	18.984			N/A
5/28/2019	CHFMXN	11:30:00 AM	19.0098	19.0237			N/A
5/28/2019	CHFMXN	1:30:00 PM	19.0321	19.0415			N/A
5/28/2019	CHFMXN	3:30:00 PM	18.9709	18.9867			N/A
5/28/2019	CHFNOK	9:30:00 AM	8.6619	8.6696			N/A
5/28/2019	CHFNOK	11:30:00 AM	8.6532	8.6594			N/A
5/28/2019	CHFNOK	1:30:00 PM	8.6632	8.6686			N/A
5/28/2019	CHFNOK	3:30:00 PM	8.6299	8.6381			N/A
5/28/2019	CHFNOK.fx	9:30:00 AM	8.66537	8.66612			N/A
5/28/2019	CHFNOK.fx	11:30:00 AM	8.65687	8.65577			N/A
5/28/2019	CHFNOK.fx	1:30:00 PM	8.66688	8.665			N/A
5/28/2019	CHFNOK.fx	3:30:00 PM	8.63349	8.63453			N/A
5/28/2019	CHFPLN	9:30:00 AM	3.8193	3.8207			N/A
5/28/2019	CHFPLN	11:30:00 AM	3.8234	3.8256			N/A
5/28/2019	CHFPLN	1:30:00 PM	3.8233	3.8251			N/A
5/28/2019	CHFPLN	3:30:00 PM	3.8152	3.8182			N/A

5/28/2019	CHFPLN.fx	9:30:00 AM	3.81687	3.82294			N/A
5/28/2019	CHFPLN.fx	11:30:00 AM	3.82108	3.82775			N/A
5/28/2019	CHFPLN.fx	1:30:00 PM	3.82086	3.82745			N/A
5/28/2019	CHFPLN.fx	3:30:00 PM	3.81286	3.82057			N/A
5/28/2019	CHFSEK	9:30:00 AM	9.5316	9.5341			N/A
5/28/2019	CHFSEK	11:30:00 AM	9.5051	9.5098			N/A
5/28/2019	CHFSEK	1:30:00 PM	9.5275	9.5287			N/A
5/28/2019	CHFSEK	3:30:00 PM	9.4915	9.4955			N/A
5/28/2019	CHFSGD	9:30:00 AM	1.3707	1.371			N/A
5/28/2019	CHFSGD	11:30:00 AM	1.372	1.3723			N/A
5/28/2019	CHFSGD	1:30:00 PM	1.3721	1.3724			N/A
5/28/2019	CHFSGD	3:30:00 PM	1.3697	1.3701			N/A
5/28/2019	CHFSGD.fx	9:30:00 AM	1.37083	1.37077			N/A
5/28/2019	CHFSGD.fx	11:30:00 AM	1.37216	1.37207			N/A
5/28/2019	CHFSGD.fx	1:30:00 PM	1.37234	1.37211			N/A
5/28/2019	CHFSGD.fx	3:30:00 PM	1.36983	1.36995			N/A
5/28/2019	CHFZAR	9:30:00 AM	14.396	14.3971			N/A
5/28/2019	CHFZAR	11:30:00 AM	14.5153	14.525			N/A
5/28/2019	CHFZAR	1:30:00 PM	14.5563	14.5625			N/A
5/28/2019	CHFZAR	3:30:00 PM	14.5285	14.5406			N/A
5/28/2019	CZKJPY	9:30:00 AM					N/A
5/28/2019	CZKJPY	11:30:00 AM	4.735	4.738			N/A
5/28/2019	CZKJPY	1:30:00 PM	4.735	4.738			N/A
5/28/2019	CZKJPY	3:30:00 PM					N/A
5/28/2019	DAX30.i	9:30:00 AM	12090.36	12086.11			N/A
5/28/2019	DAX30.i	11:30:00 AM	12010.61	12001.11			N/A
5/28/2019	DAX30.i	1:30:00 PM	12008.36	12005.36			N/A
5/28/2019	DAX30.i	3:30:00 PM	12080.11	12075.36			N/A
5/28/2019	DJ30.i	9:30:00 AM					N/A
5/28/2019	DJ30.i	11:30:00 AM					N/A
5/28/2019	DJ30.i	1:30:00 PM					N/A
5/28/2019	DJ30.i	3:30:00 PM					N/A
5/28/2019	DKKJPY	9:30:00 AM					N/A
5/28/2019	DKKJPY	11:30:00 AM	16.37	16.39			N/A

5/28/2019	DKKJPY	1:30:00 PM					N/A
5/28/2019	DKKJPY	3:30:00 PM					N/A
5/28/2019	EURAUD	9:30:00 AM	1.61428	1.61471			N/A
5/28/2019	EURAUD	11:30:00 AM	1.61672	1.61709			N/A
5/28/2019	EURAUD	1:30:00 PM	1.61578	1.61585			N/A
5/28/2019	EURAUD	3:30:00 PM	1.61534	1.61563			N/A
5/28/2019	EURAUD.fx	9:30:00 AM	1.61449	1.61448			N/A
5/28/2019	EURAUD.fx	11:30:00 AM	1.61694	1.61687			N/A
5/28/2019	EURAUD.fx	1:30:00 PM	1.616	1.61562			N/A
5/28/2019	EURAUD.fx	3:30:00 PM	1.61552	1.6154			N/A
5/28/2019	EURCAD	9:30:00 AM	1.50256	1.50343			N/A
5/28/2019	EURCAD	11:30:00 AM	1.50506	1.50582			N/A
5/28/2019	EURCAD	1:30:00 PM	1.50622	1.50699			N/A
5/28/2019	EURCAD	3:30:00 PM	1.50637	1.50712			N/A
5/28/2019	EURCAD.fx	9:30:00 AM	1.50299	1.50301			N/A
5/28/2019	EURCAD.fx	11:30:00 AM	1.50548	1.5054			N/A
5/28/2019	EURCAD.fx	1:30:00 PM	1.50665	1.50656			N/A
5/28/2019	EURCAD.fx	3:30:00 PM	1.5068	1.50668			N/A
5/28/2019	EURCHF	9:30:00 AM	1.1232	1.12328			N/A
5/28/2019	EURCHF	11:30:00 AM	1.12355	1.12358			N/A
5/28/2019	EURCHF	1:30:00 PM	1.12334	1.12311			N/A
5/28/2019	EURCHF	3:30:00 PM	1.12539	1.1255			N/A
5/28/2019	EURCHF.fx	9:30:00 AM	1.12327	1.12321			N/A
5/28/2019	EURCHF.fx	11:30:00 AM	1.1236	1.12353			N/A
5/28/2019	EURCHF.fx	1:30:00 PM	1.1234	1.12304			N/A
5/28/2019	EURCHF.fx	3:30:00 PM	1.12545	1.12543			N/A
5/28/2019	EURCZK	9:30:00 AM	25.79	25.827			N/A
5/28/2019	EURCZK	11:30:00 AM	25.795	25.835			N/A
5/28/2019	EURCZK	1:30:00 PM	25.807	25.846			N/A
5/28/2019	EURCZK	3:30:00 PM	25.802	25.841			N/A
5/28/2019	EURDKK	9:30:00 AM					N/A
5/28/2019	EURDKK	11:30:00 AM	7.468	7.4692			N/A
5/28/2019	EURDKK	1:30:00 PM	7.4681	7.4691			N/A
5/28/2019	EURDKK	3:30:00 PM	7.4681	7.4694			N/A

5/28/2019	EURGBP	9:30:00 AM	0.88178	0.88169			N/A
5/28/2019	EURGBP	11:30:00 AM	0.8836	0.88368			N/A
5/28/2019	EURGBP	1:30:00 PM	0.88302	0.88312			N/A
5/28/2019	EURGBP	3:30:00 PM	0.8835	0.88351			N/A
5/28/2019	EURGBP.fx	9:30:00 AM	0.88182	0.88164			N/A
5/28/2019	EURGBP.fx	11:30:00 AM	0.88364	0.88363			N/A
5/28/2019	EURGBP.fx	1:30:00 PM	0.88306	0.88307			N/A
5/28/2019	EURGBP.fx	3:30:00 PM	0.88356	0.88345			N/A
5/28/2019	EURHKD	9:30:00 AM	8.7754	8.7805			N/A
5/28/2019	EURHKD	11:30:00 AM	8.7796	8.7847			N/A
5/28/2019	EURHKD	1:30:00 PM	8.7766	8.7813			N/A
5/28/2019	EURHKD	3:30:00 PM	8.777	8.782			N/A
5/28/2019	EURHKD.fx	9:30:00 AM	8.77826	8.77761			N/A
5/28/2019	EURHKD.fx	11:30:00 AM	8.7824	8.78179			N/A
5/28/2019	EURHKD.fx	1:30:00 PM	8.77947	8.77841			N/A
5/28/2019	EURHKD.fx	3:30:00 PM	8.77983	8.77915			N/A
5/28/2019	EURHUF	9:30:00 AM	325.33	326.05			N/A
5/28/2019	EURHUF	11:30:00 AM	325.96	326.58			N/A
5/28/2019	EURHUF	1:30:00 PM	326.23	326.83			N/A
5/28/2019	EURHUF	3:30:00 PM	326.45	327.02			N/A
5/28/2019	EURHUF.fx	9:30:00 AM	325.611	325.768			N/A
5/28/2019	EURHUF.fx	11:30:00 AM	326.242	326.308			N/A
5/28/2019	EURHUF.fx	1:30:00 PM	326.509	326.64			N/A
5/28/2019	EURHUF.fx	3:30:00 PM	326.729	326.868			N/A
5/28/2019	EURJPY	9:30:00 AM	122.426	122.435			N/A
5/28/2019	EURJPY	11:30:00 AM	122.259	122.241			N/A
5/28/2019	EURJPY	1:30:00 PM	122.307	122.302			N/A
5/28/2019	EURJPY	3:30:00 PM	122.526	122.517			N/A
5/28/2019	EURJPY.fx	9:30:00 AM	122.429	122.431			N/A
5/28/2019	EURJPY.fx	11:30:00 AM	122.265	122.237			N/A
5/28/2019	EURJPY.fx	1:30:00 PM	122.31	122.297			N/A
5/28/2019	EURJPY.fx	3:30:00 PM	122.529	122.513			N/A
5/28/2019	EURMXN	9:30:00 AM	21.3118	21.3255			N/A
5/28/2019	EURMXN	11:30:00 AM	21.3587	21.3759			N/A

5/28/2019	EURMXN	1:30:00 PM	21.3737	21.3932			N/A
5/28/2019	EURMXN	3:30:00 PM	21.3505	21.3686			N/A
5/28/2019	EURMXN.fx	9:30:00 AM	21.3199	21.3169			N/A
5/28/2019	EURMXN.fx	11:30:00 AM	21.3677	21.3668			N/A
5/28/2019	EURMXN.fx	1:30:00 PM	21.3828	21.3837			N/A
5/28/2019	EURMXN.fx	3:30:00 PM	21.3606	21.3586			N/A
5/28/2019	EURNOK	9:30:00 AM	9.7276	9.7399			N/A
5/28/2019	EURNOK	11:30:00 AM	9.7208	9.7311			N/A
5/28/2019	EURNOK	1:30:00 PM	9.7278	9.7398			N/A
5/28/2019	EURNOK	3:30:00 PM	9.7113	9.7232			N/A
5/28/2019	EURNOK.fx	9:30:00 AM	9.7329	9.73463			N/A
5/28/2019	EURNOK.fx	11:30:00 AM	9.72641	9.72547			N/A
5/28/2019	EURNOK.fx	1:30:00 PM	9.73328	9.7343			N/A
5/28/2019	EURNOK.fx	3:30:00 PM	9.71684	9.71765			N/A
5/28/2019	EURNZD	9:30:00 AM	1.70599	1.70673			N/A
5/28/2019	EURNZD	11:30:00 AM	1.70759	1.70837			N/A
5/28/2019	EURNZD	1:30:00 PM	1.70751	1.70824			N/A
5/28/2019	EURNZD	3:30:00 PM	1.70883	1.70963			N/A
5/28/2019	EURNZD.fx	9:30:00 AM	1.70643	1.7063			N/A
5/28/2019	EURNZD.fx	11:30:00 AM	1.70799	1.70794			N/A
5/28/2019	EURNZD.fx	1:30:00 PM	1.70794	1.70778			N/A
5/28/2019	EURNZD.fx	3:30:00 PM	1.70926	1.70915			N/A
5/28/2019	EURPLN	9:30:00 AM	4.29	4.2914			N/A
5/28/2019	EURPLN	11:30:00 AM	4.2955	4.2976			N/A
5/28/2019	EURPLN	1:30:00 PM	4.2941	4.2967			N/A
5/28/2019	EURPLN	3:30:00 PM	4.2936	4.297			N/A
5/28/2019	EURPLN.fx	9:30:00 AM	4.28947	4.29312			N/A
5/28/2019	EURPLN.fx	11:30:00 AM	4.29501	4.29812			N/A
5/28/2019	EURPLN.fx	1:30:00 PM	4.29348	4.29722			N/A
5/28/2019	EURPLN.fx	3:30:00 PM	4.29297	4.29758			N/A
5/28/2019	EURRUB	9:30:00 AM					N/A
5/28/2019	EURRUB	11:30:00 AM	71.873	72.297			N/A
5/28/2019	EURRUB	1:30:00 PM	71.948	72.379			N/A
5/28/2019	EURRUB	3:30:00 PM	71.923	72.339			N/A

5/28/2019	EURSEK	9:30:00 AM	10.7077	10.7103			N/A
5/28/2019	EURSEK	11:30:00 AM	10.6816	10.6859			N/A
5/28/2019	EURSEK	1:30:00 PM	10.7004	10.7045			N/A
5/28/2019	EURSEK	3:30:00 PM	10.6838	10.6877			N/A
5/28/2019	EURSEK.fx	9:30:00 AM	10.70948	10.7083			N/A
5/28/2019	EURSEK.fx	11:30:00 AM	10.68328	10.6842			N/A
5/28/2019	EURSEK.fx	1:30:00 PM	10.70198	10.70402			N/A
5/28/2019	EURSEK.fx	3:30:00 PM	10.68562	10.68602			N/A
5/28/2019	EURSGD	9:30:00 AM	1.5393	1.5401			N/A
5/28/2019	EURSGD	11:30:00 AM	1.5412	1.5421			N/A
5/28/2019	EURSGD	1:30:00 PM	1.5408	1.5416			N/A
5/28/2019	EURSGD	3:30:00 PM	1.5412	1.5417			N/A
5/28/2019	EURSGD.fx	9:30:00 AM	1.53963	1.5397			N/A
5/28/2019	EURSGD.fx	11:30:00 AM	1.54158	1.54163			N/A
5/28/2019	EURSGD.fx	1:30:00 PM	1.54115	1.54119			N/A
5/28/2019	EURSGD.fx	3:30:00 PM	1.54161	1.54164			N/A
5/28/2019	EURUSD	9:30:00 AM	1.11821	1.1183			N/A
5/28/2019	EURUSD	11:30:00 AM	1.11866	1.11875			N/A
5/28/2019	EURUSD	1:30:00 PM	1.11839	1.11842			N/A
5/28/2019	EURUSD	3:30:00 PM	1.11844	1.11851			N/A
5/28/2019	EURUSD.fx	9:30:00 AM	1.11842	1.11841			N/A
5/28/2019	EURUSD.fx	11:30:00 AM	1.11886	1.11884			N/A
5/28/2019	EURUSD.fx	1:30:00 PM	1.1186	1.11851			N/A
5/28/2019	EURUSD.fx	3:30:00 PM	1.11865	1.1186			N/A
5/28/2019	EURZAR	9:30:00 AM	16.1737	16.1751			N/A
5/28/2019	EURZAR	11:30:00 AM	16.3111	16.3241			N/A
5/28/2019	EURZAR	1:30:00 PM	16.3493	16.362			N/A
5/28/2019	EURZAR	3:30:00 PM	16.3524	16.3685			N/A
5/28/2019	EURZAR.fx	9:30:00 AM	16.1724	16.17606			N/A
5/28/2019	EURZAR.fx	11:30:00 AM	16.31093	16.32363			N/A
5/28/2019	EURZAR.fx	1:30:00 PM	16.34885	16.36214			N/A
5/28/2019	EURZAR.fx	3:30:00 PM	16.35188	16.36898			N/A
5/28/2019	GBPAUD	9:30:00 AM	1.83152	1.83185			N/A
5/28/2019	GBPAUD	11:30:00 AM	1.83015	1.83094			N/A

5/28/2019	GBPAUD	1:30:00 PM	1.83024	1.83062			N/A
5/28/2019	GBPAUD	3:30:00 PM	1.82886	1.82941			N/A
5/28/2019	GBPAUD.fx	9:30:00 AM	1.8319	1.83145			N/A
5/28/2019	GBPAUD.fx	11:30:00 AM	1.83055	1.83052			N/A
5/28/2019	GBPAUD.fx	1:30:00 PM	1.83066	1.83021			N/A
5/28/2019	GBPAUD.fx	3:30:00 PM	1.82926	1.82901			N/A
5/28/2019	GBPCAD	9:30:00 AM	1.70443	1.70477			N/A
5/28/2019	GBPCAD	11:30:00 AM	1.70334	1.70402			N/A
5/28/2019	GBPCAD	1:30:00 PM	1.70572	1.7065			N/A
5/28/2019	GBPCAD	3:30:00 PM	1.70515	1.70579			N/A
5/28/2019	GBPCAD.fx	9:30:00 AM	1.70482	1.70437			N/A
5/28/2019	GBPCAD.fx	11:30:00 AM	1.70373	1.70361			N/A
5/28/2019	GBPCAD.fx	1:30:00 PM	1.70611	1.70611			N/A
5/28/2019	GBPCAD.fx	3:30:00 PM	1.70555	1.70538			N/A
5/28/2019	GBPCHF	9:30:00 AM	1.27375	1.27398			N/A
5/28/2019	GBPCHF	11:30:00 AM	1.27135	1.27171			N/A
5/28/2019	GBPCHF	1:30:00 PM	1.27187	1.27199			N/A
5/28/2019	GBPCHF	3:30:00 PM	1.27367	1.27394			N/A
5/28/2019	GBPCHF.fx	9:30:00 AM	1.27393	1.27378			N/A
5/28/2019	GBPCHF.fx	11:30:00 AM	1.27156	1.2715			N/A
5/28/2019	GBPCHF.fx	1:30:00 PM	1.27205	1.27181			N/A
5/28/2019	GBPCHF.fx	3:30:00 PM	1.27387	1.27374			N/A
5/28/2019	GBPCZK	9:30:00 AM	29.26	29.278			N/A
5/28/2019	GBPCZK	11:30:00 AM	29.202	29.224			N/A
5/28/2019	GBPCZK	1:30:00 PM	29.235	29.257			N/A
5/28/2019	GBPCZK	3:30:00 PM	29.216	29.235			N/A
5/28/2019	GBPDKK	9:30:00 AM	8.464	8.474			N/A
5/28/2019	GBPDKK	11:30:00 AM	8.446	8.457			N/A
5/28/2019	GBPDKK	1:30:00 PM	8.452	8.463			N/A
5/28/2019	GBPDKK	3:30:00 PM	8.448	8.458			N/A
5/28/2019	GBPDKK.fx	9:30:00 AM	8.4633	8.4746			N/A
5/28/2019	GBPDKK.fx	11:30:00 AM	8.4445	8.4576			N/A
5/28/2019	GBPDKK.fx	1:30:00 PM	8.4505	8.463			N/A
5/28/2019	GBPDKK.fx	3:30:00 PM	8.4467	8.4585			N/A

5/28/2019	GBPHKD	9:30:00 AM	9.9513	9.9547			N/A
5/28/2019	GBPHKD	11:30:00 AM	9.9331	9.939			N/A
5/28/2019	GBPHKD	1:30:00 PM	9.9367	9.9417			N/A
5/28/2019	GBPHKD	3:30:00 PM	9.9336	9.9376			N/A
5/28/2019	GBPHUF	9:30:00 AM	368.94	369.35			N/A
5/28/2019	GBPHUF	11:30:00 AM	368.89	369.25			N/A
5/28/2019	GBPHUF	1:30:00 PM	369.44	369.83			N/A
5/28/2019	GBPHUF	3:30:00 PM	369.48	369.92			N/A
5/28/2019	GBPJPY	9:30:00 AM	138.846	138.857			N/A
5/28/2019	GBPJPY	11:30:00 AM	138.341	138.359			N/A
5/28/2019	GBPJPY	1:30:00 PM	138.485	138.515			N/A
5/28/2019	GBPJPY	3:30:00 PM	138.677	138.678			N/A
5/28/2019	GBPJPY.fx	9:30:00 AM	138.865	138.836			N/A
5/28/2019	GBPJPY.fx	11:30:00 AM	138.36	138.34			N/A
5/28/2019	GBPJPY.fx	1:30:00 PM	138.504	138.496			N/A
5/28/2019	GBPJPY.fx	3:30:00 PM	138.698	138.659			N/A
5/28/2019	GBPMXN	9:30:00 AM	24.1613	24.1715			N/A
5/28/2019	GBPMXN	11:30:00 AM	24.1677	24.1794			N/A
5/28/2019	GBPMXN	1:30:00 PM	24.2011	24.2139			N/A
5/28/2019	GBPMXN	3:30:00 PM	24.1645	24.176			N/A
5/28/2019	GBPNOK	9:30:00 AM	11.0346	11.0436			N/A
5/28/2019	GBPNOK	11:30:00 AM	11.0013	11.0122			N/A
5/28/2019	GBPNOK	1:30:00 PM	11.0169	11.0277			N/A
5/28/2019	GBPNOK	3:30:00 PM	10.9933	11.0032			N/A
5/28/2019	GBPNOK.fx	9:30:00 AM	11.03958	11.03883			N/A
5/28/2019	GBPNOK.fx	11:30:00 AM	11.00613	11.00738			N/A
5/28/2019	GBPNOK.fx	1:30:00 PM	11.02168	11.02285			N/A
5/28/2019	GBPNOK.fx	3:30:00 PM	10.99816	10.9981			N/A
5/28/2019	GBPNZD	9:30:00 AM	1.93516	1.93529			N/A
5/28/2019	GBPNZD	11:30:00 AM	1.93251	1.93327			N/A
5/28/2019	GBPNZD	1:30:00 PM	1.93363	1.93436			N/A
5/28/2019	GBPNZD	3:30:00 PM	1.93434	1.93485			N/A
5/28/2019	GBPNZD.fx	9:30:00 AM	1.9355	1.93493			N/A
5/28/2019	GBPNZD.fx	11:30:00 AM	1.93284	1.93293			N/A

5/28/2019	GBPNZD.fx	1:30:00 PM	1.93398	1.93396			N/A
5/28/2019	GBPNZD.fx	3:30:00 PM	1.93471	1.93446			N/A
5/28/2019	GBPPLN	9:30:00 AM	4.8663	4.8657			N/A
5/28/2019	GBPPLN	11:30:00 AM	4.8621	4.8627			N/A
5/28/2019	GBPPLN	1:30:00 PM	4.8634	4.8649			N/A
5/28/2019	GBPPLN	3:30:00 PM	4.861	4.8623			N/A
5/28/2019	GBPPLN.fx	9:30:00 AM	4.86411	4.86776			N/A
5/28/2019	GBPPLN.fx	11:30:00 AM	4.86002	4.86487			N/A
5/28/2019	GBPPLN.fx	1:30:00 PM	4.86123	4.86704			N/A
5/28/2019	GBPPLN.fx	3:30:00 PM	4.85895	4.86444			N/A
5/28/2019	GBPSEK	9:30:00 AM	12.142	12.147			N/A
5/28/2019	GBPSEK	11:30:00 AM	12.0861	12.0955			N/A
5/28/2019	GBPSEK	1:30:00 PM	12.1154	12.1246			N/A
5/28/2019	GBPSEK	3:30:00 PM	12.0911	12.0983			N/A
5/28/2019	GBPSEK.fx	9:30:00 AM	12.1385	12.15047			N/A
5/28/2019	GBPSEK.fx	11:30:00 AM	12.08241	12.09915			N/A
5/28/2019	GBPSEK.fx	1:30:00 PM	12.11179	12.1283			N/A
5/28/2019	GBPSEK.fx	3:30:00 PM	12.08752	12.10204			N/A
5/28/2019	GBPSGD	9:30:00 AM	1.746	1.7464			N/A
5/28/2019	GBPSGD	11:30:00 AM	1.7443	1.7451			N/A
5/28/2019	GBPSGD	1:30:00 PM	1.7449	1.7457			N/A
5/28/2019	GBPSGD	3:30:00 PM	1.7447	1.7452			N/A
5/28/2019	GBPSGD.fx	9:30:00 AM	1.74421	1.74816			N/A
5/28/2019	GBPSGD.fx	11:30:00 AM	1.74241	1.74687			N/A
5/28/2019	GBPSGD.fx	1:30:00 PM	1.74306	1.74746			N/A
5/28/2019	GBPSGD.fx	3:30:00 PM	1.74281	1.74697			N/A
5/28/2019	GBPUSD	9:30:00 AM	1.26859	1.26827			N/A
5/28/2019	GBPUSD	11:30:00 AM	1.26613	1.26619			N/A
5/28/2019	GBPUSD	1:30:00 PM	1.26665	1.26668		100	N/A
5/28/2019	GBPUSD	3:30:00 PM	1.2662	1.26609			N/A
5/28/2019	GBPUSD.fx	9:30:00 AM	1.26864	1.26822			N/A
5/28/2019	GBPUSD.fx	11:30:00 AM	1.26619	1.26613			N/A
5/28/2019	GBPUSD.fx	1:30:00 PM	1.26671	1.26662			N/A
5/28/2019	GBPUSD.fx	3:30:00 PM	1.26626	1.26603			N/A

5/28/2019	GBPZAR	9:30:00 AM	18.3372	18.3466			N/A
5/28/2019	GBPZAR	11:30:00 AM	18.4549	18.476			N/A
5/28/2019	GBPZAR	1:30:00 PM	18.5113	18.5328			N/A
5/28/2019	GBPZAR	3:30:00 PM	18.5057	18.5287			N/A
5/28/2019	GBPZAR.fx	9:30:00 AM	18.3435	18.3399			N/A
5/28/2019	GBPZAR.fx	11:30:00 AM	18.4622	18.4694			N/A
5/28/2019	GBPZAR.fx	1:30:00 PM	18.519	18.5242			N/A
5/28/2019	GBPZAR.fx	3:30:00 PM	18.5134	18.5212			N/A
5/28/2019	GOLD	9:30:00 AM	1283.35	1283.68			N/A
5/28/2019	GOLD	11:30:00 AM	1283.96	1284			N/A
5/28/2019	GOLD	1:30:00 PM	1283.59	1283.98			N/A
5/28/2019	GOLD	3:30:00 PM	1277.58	1277.25			N/A
5/28/2019	HKDJPY	9:30:00 AM	13.94	13.96			N/A
5/28/2019	HKDJPY	11:30:00 AM	13.92	13.93			N/A
5/28/2019	HKDJPY	1:30:00 PM					N/A
5/28/2019	HKDJPY	3:30:00 PM	13.95	13.96			N/A
5/28/2019	HKDJPY.fx	9:30:00 AM	13.943	13.95			N/A
5/28/2019	HKDJPY.fx	11:30:00 AM	13.918	13.922			N/A
5/28/2019	HKDJPY.fx	1:30:00 PM	13.927	13.934			N/A
5/28/2019	HKDJPY.fx	3:30:00 PM	13.952	13.957			N/A
5/28/2019	HUFJPY	9:30:00 AM	0.3764	0.3767			N/A
5/28/2019	HUFJPY	11:30:00 AM	0.3751	0.3754			N/A
5/28/2019	HUFJPY	1:30:00 PM	0.3747	0.3751			N/A
5/28/2019	HUFJPY	3:30:00 PM	0.3752	0.3755			N/A
5/28/2019	JP225.i	9:30:00 AM	21206.05	21213.1			N/A
5/28/2019	JP225.i	11:30:00 AM	21138.1	21150.6			N/A
5/28/2019	JP225.i	1:30:00 PM	21123.1	21138.1			N/A
5/28/2019	JP225.i	3:30:00 PM	21203.1	21213.1			N/A
5/28/2019	MXNJPY	9:30:00 AM	5.74	5.75			N/A
5/28/2019	MXNJPY	11:30:00 AM					N/A
5/28/2019	MXNJPY	1:30:00 PM	5.72	5.73			N/A
5/28/2019	MXNJPY	3:30:00 PM	5.74	5.75			N/A
5/28/2019	NASDAQ.i	9:30:00 AM					N/A
5/28/2019	NASDAQ.i	11:30:00 AM					N/A

5/28/2019	NASDAQ.i	1:30:00 PM					N/A
5/28/2019	NASDAQ.i	3:30:00 PM					N/A
5/28/2019	NOKJPY	9:30:00 AM	12.57	12.61			N/A
5/28/2019	NOKJPY	11:30:00 AM	12.56	12.59			N/A
5/28/2019	NOKJPY	1:30:00 PM	12.56	12.58			N/A
5/28/2019	NOKJPY	3:30:00 PM	12.6	12.63			N/A
5/28/2019	NOKJPY.fx	9:30:00 AM	12.574	12.582			N/A
5/28/2019	NOKJPY.fx	11:30:00 AM	12.566	12.572			N/A
5/28/2019	NOKJPY.fx	1:30:00 PM	12.562	12.568			N/A
5/28/2019	NOKJPY.fx	3:30:00 PM	12.606	12.612			N/A
5/28/2019	NZDCAD	9:30:00 AM	0.88048	0.88117			N/A
5/28/2019	NZDCAD	11:30:00 AM	0.88107	0.8817			N/A
5/28/2019	NZDCAD	1:30:00 PM	0.88178	0.88248			N/A
5/28/2019	NZDCAD	3:30:00 PM	0.8812	0.88189			N/A
5/28/2019	NZDCAD.fx	9:30:00 AM	0.88081	0.88083			N/A
5/28/2019	NZDCAD.fx	11:30:00 AM	0.88141	0.88135			N/A
5/28/2019	NZDCAD.fx	1:30:00 PM	0.88212	0.88214			N/A
5/28/2019	NZDCAD.fx	3:30:00 PM	0.88158	0.88153			N/A
5/28/2019	NZDCHF	9:30:00 AM	0.65794	0.65856			N/A
5/28/2019	NZDCHF	11:30:00 AM	0.65749	0.65814			N/A
5/28/2019	NZDCHF	1:30:00 PM	0.65738	0.65793			N/A
5/28/2019	NZDCHF	3:30:00 PM	0.65806	0.65879			N/A
5/28/2019	NZDCHF.fx	9:30:00 AM	0.65828	0.6582			N/A
5/28/2019	NZDCHF.fx	11:30:00 AM	0.65782	0.65779			N/A
5/28/2019	NZDCHF.fx	1:30:00 PM	0.65772	0.65758			N/A
5/28/2019	NZDCHF.fx	3:30:00 PM	0.65841	0.65844			N/A
5/28/2019	NZDCZK	9:30:00 AM	15.119	15.128			N/A
5/28/2019	NZDCZK	11:30:00 AM	15.107	15.119			N/A
5/28/2019	NZDCZK	1:30:00 PM	15.116	15.127			N/A
5/28/2019	NZDCZK	3:30:00 PM	15.1	15.112			N/A
5/28/2019	NZDDKK	9:30:00 AM					N/A
5/28/2019	NZDDKK	11:30:00 AM					N/A
5/28/2019	NZDDKK	1:30:00 PM	4.37	4.373			N/A
5/28/2019	NZDDKK	3:30:00 PM					N/A

5/28/2019	NZDHKD	9:30:00 AM	5.1409	5.1437			N/A
5/28/2019	NZDHKD	11:30:00 AM	5.1385	5.1413			N/A
5/28/2019	NZDHKD	1:30:00 PM	5.1374	5.1398			N/A
5/28/2019	NZDHKD	3:30:00 PM	5.1342	5.1367			N/A
5/28/2019	NZDHUF	9:30:00 AM	190.61	190.87			N/A
5/28/2019	NZDHUF	11:30:00 AM	190.82	191.03			N/A
5/28/2019	NZDHUF	1:30:00 PM	190.99	191.24			N/A
5/28/2019	NZDHUF	3:30:00 PM	190.94	191.22			N/A
5/28/2019	NZDJPY	9:30:00 AM	71.715	71.786			N/A
5/28/2019	NZDJPY	11:30:00 AM	71.545	71.607			N/A
5/28/2019	NZDJPY	1:30:00 PM	71.582	71.641			N/A
5/28/2019	NZDJPY	3:30:00 PM	71.653	71.717			N/A
5/28/2019	NZDJPY.fx	9:30:00 AM	71.747	71.753			N/A
5/28/2019	NZDJPY.fx	11:30:00 AM	71.576	71.574			N/A
5/28/2019	NZDJPY.fx	1:30:00 PM	71.613	71.608			N/A
5/28/2019	NZDJPY.fx	3:30:00 PM	71.684	71.684			N/A
5/28/2019	NZDMXN	9:30:00 AM	12.4864	12.4892			N/A
5/28/2019	NZDMXN	11:30:00 AM	12.5026	12.5083			N/A
5/28/2019	NZDMXN	1:30:00 PM	12.5131	12.5186			N/A
5/28/2019	NZDMXN	3:30:00 PM	12.4896	12.4951			N/A
5/28/2019	NZDNOK	9:30:00 AM	5.6993	5.7032			N/A
5/28/2019	NZDNOK	11:30:00 AM	5.6901	5.6934			N/A
5/28/2019	NZDNOK	1:30:00 PM	5.6951	5.6986			N/A
5/28/2019	NZDNOK	3:30:00 PM	5.6807	5.6845			N/A
5/28/2019	NZDPLN	9:30:00 AM	2.5132	2.514			N/A
5/28/2019	NZDPLN	11:30:00 AM	2.5138	2.5151			N/A
5/28/2019	NZDPLN	1:30:00 PM	2.5135	2.5147			N/A
5/28/2019	NZDPLN	3:30:00 PM	2.5116	2.513			N/A
5/28/2019	NZDSEK	9:30:00 AM	6.2695	6.276			N/A
5/28/2019	NZDSEK	11:30:00 AM	6.2484	6.2552			N/A
5/28/2019	NZDSEK	1:30:00 PM	6.2611	6.2673			N/A
5/28/2019	NZDSEK	3:30:00 PM	6.2455	6.2521			N/A
5/28/2019	NZDSGD	9:30:00 AM	0.902	0.9027			N/A
5/28/2019	NZDSGD	11:30:00 AM	0.9023	0.903			N/A

5/28/2019	NZDSGD	1:30:00 PM	0.9021	0.9027			N/A
5/28/2019	NZDSGD	3:30:00 PM	0.9017	0.9023			N/A
5/28/2019	NZDSGD.fx	9:30:00 AM	0.90203	0.90257			N/A
5/28/2019	NZDSGD.fx	11:30:00 AM	0.9023	0.90289			N/A
5/28/2019	NZDSGD.fx	1:30:00 PM	0.90211	0.90265			N/A
5/28/2019	NZDSGD.fx	3:30:00 PM	0.90168	0.90223			N/A
5/28/2019	NZDUSD	9:30:00 AM	0.65534	0.65546			N/A
5/28/2019	NZDUSD	11:30:00 AM	0.65495	0.65506			N/A
5/28/2019	NZDUSD	1:30:00 PM	0.65485	0.65494			N/A
5/28/2019	NZDUSD	3:30:00 PM	0.65435	0.65451			N/A
5/28/2019	NZDUSD.fx	9:30:00 AM	0.65541	0.65547			N/A
5/28/2019	NZDUSD.fx	11:30:00 AM	0.65503	0.65507			N/A
5/28/2019	NZDUSD.fx	1:30:00 PM	0.65493	0.65495			N/A
5/28/2019	NZDUSD.fx	3:30:00 PM	0.65444	0.65452			N/A
5/28/2019	NZDZAR	9:30:00 AM	9.4706	9.4766			N/A
5/28/2019	NZDZAR	11:30:00 AM	9.5411	9.5538			N/A
5/28/2019	NZDZAR	1:30:00 PM	9.5649	9.5776			N/A
5/28/2019	NZDZAR	3:30:00 PM	9.5591	9.5748			N/A
5/28/2019	SEKJPY	9:30:00 AM	11.44	11.44			N/A
5/28/2019	SEKJPY	11:30:00 AM	11.45	11.45			N/A
5/28/2019	SEKJPY	1:30:00 PM	11.43	11.44			N/A
5/28/2019	SEKJPY	3:30:00 PM	11.47	11.47			N/A
5/28/2019	SEKJPY.fx	9:30:00 AM	11.424	11.441			N/A
5/28/2019	SEKJPY.fx	11:30:00 AM	11.434	11.45			N/A
5/28/2019	SEKJPY.fx	1:30:00 PM	11.418	11.435			N/A
5/28/2019	SEKJPY.fx	3:30:00 PM	11.457	11.473			N/A
5/28/2019	SGDJPY	9:30:00 AM	79.49	79.52			N/A
5/28/2019	SGDJPY	11:30:00 AM	79.26	79.29			N/A
5/28/2019	SGDJPY	1:30:00 PM	79.34	79.35			N/A
5/28/2019	SGDJPY	3:30:00 PM	79.47	79.47			N/A
5/28/2019	SILVER	9:30:00 AM	14.34	14.72			N/A
5/28/2019	SILVER	11:30:00 AM	14.29	14.66			N/A
5/28/2019	SILVER	1:30:00 PM	14.3	14.67			N/A
5/28/2019	SILVER	3:30:00 PM	14.16	14.5			N/A

5/28/2019	SPX500.i	9:30:00 AM	2834.74	2835.54			N/A
5/28/2019	SPX500.i	11:30:00 AM	2825.12	2825.04			N/A
5/28/2019	SPX500.i	1:30:00 PM	2823.28	2824.04			N/A
5/28/2019	SPX500.i	3:30:00 PM	2832.74	2833.04			N/A
5/28/2019	UK100.i	9:30:00 AM	7305.38	7306.38			N/A
5/28/2019	UK100.i	11:30:00 AM	7283.38	7280.97			N/A
5/28/2019	UK100.i	1:30:00 PM	7272.63	7272.88			N/A
5/28/2019	UK100.i	3:30:00 PM	7315.88	7315.47			N/A
5/28/2019	USDCAD	9:30:00 AM	1.34382	1.34398			N/A
5/28/2019	USDCAD	11:30:00 AM	1.34557	1.34553			N/A
5/28/2019	USDCAD	1:30:00 PM	1.34698	1.34696			N/A
5/28/2019	USDCAD	3:30:00 PM	1.34698	1.34694			N/A
5/28/2019	USDCAD.fx	9:30:00 AM	1.34385	1.34394			N/A
5/28/2019	USDCAD.fx	11:30:00 AM	1.3456	1.3455			N/A
5/28/2019	USDCAD.fx	1:30:00 PM	1.34702	1.34693			N/A
5/28/2019	USDCAD.fx	3:30:00 PM	1.34702	1.34691			N/A
5/28/2019	USDCHF	9:30:00 AM	1.00423	1.00427			N/A
5/28/2019	USDCHF	11:30:00 AM	1.00416	1.00416			N/A
5/28/2019	USDCHF	1:30:00 PM	1.00414	1.00402	100	100	N/A
5/28/2019	USDCHF	3:30:00 PM	1.00595	1.00608			N/A
5/28/2019	USDCHF.fx	9:30:00 AM	1.00429	1.0042			N/A
5/28/2019	USDCHF.fx	11:30:00 AM	1.00421	1.0041			N/A
5/28/2019	USDCHF.fx	1:30:00 PM	1.00419	1.00395			N/A
5/28/2019	USDCHF.fx	3:30:00 PM	1.00601	1.00601			N/A
5/28/2019	USDCZK	9:30:00 AM	23.087	23.108			N/A
5/28/2019	USDCZK	11:30:00 AM	23.081	23.103			N/A
5/28/2019	USDCZK	1:30:00 PM	23.099	23.12			N/A
5/28/2019	USDCZK	3:30:00 PM	23.092	23.113			N/A
5/28/2019	USDCZK.fx	9:30:00 AM	23.0941	23.101			N/A
5/28/2019	USDCZK.fx	11:30:00 AM	23.089	23.0952			N/A
5/28/2019	USDCZK.fx	1:30:00 PM	23.1069	23.111			N/A
5/28/2019	USDCZK.fx	3:30:00 PM	23.1014	23.105			N/A
5/28/2019	USDDKK	9:30:00 AM	6.6744	6.6781			N/A
5/28/2019	USDDKK	11:30:00 AM	6.6717	6.6757			N/A

5/28/2019	USDDKK	1:30:00 PM	6.6737	6.6776			N/A
5/28/2019	USDDKK	3:30:00 PM	6.6735	6.6772			N/A
5/28/2019	USDDKK.fx	9:30:00 AM	6.67469	6.67613			N/A
5/28/2019	USDDKK.fx	11:30:00 AM	6.67226	6.67358			N/A
5/28/2019	USDDKK.fx	1:30:00 PM	6.67441	6.67552			N/A
5/28/2019	USDDKK.fx	3:30:00 PM	6.67385	6.67512			N/A
5/28/2019	USDHKD	9:30:00 AM	7.8483	7.8485			N/A
5/28/2019	USDHKD	11:30:00 AM	7.8487	7.8492			N/A
5/28/2019	USDHKD	1:30:00 PM	7.8482	7.8486			N/A
5/28/2019	USDHKD	3:30:00 PM	7.848	7.8485			N/A
5/28/2019	USDHKD.fx	9:30:00 AM	7.84828	7.84885			N/A
5/28/2019	USDHKD.fx	11:30:00 AM	7.8489	7.84941			N/A
5/28/2019	USDHKD.fx	1:30:00 PM	7.84821	7.84869			N/A
5/28/2019	USDHKD.fx	3:30:00 PM	7.84815	7.8487			N/A
5/28/2019	USDHUF	9:30:00 AM	290.97	291.43			N/A
5/28/2019	USDHUF	11:30:00 AM	291.43	291.81			N/A
5/28/2019	USDHUF	1:30:00 PM	291.76	292.17			N/A
5/28/2019	USDHUF	3:30:00 PM	291.92	292.34			N/A
5/28/2019	USDHUF.fx	9:30:00 AM	291.183	291.219			N/A
5/28/2019	USDHUF.fx	11:30:00 AM	291.639	291.606			N/A
5/28/2019	USDHUF.fx	1:30:00 PM	291.965	291.976			N/A
5/28/2019	USDHUF.fx	3:30:00 PM	292.113	292.145			N/A
5/28/2019	USDINR	9:30:00 AM	64.62	74.61			N/A
5/28/2019	USDINR	11:30:00 AM	64.7	74.7			N/A
5/28/2019	USDINR	1:30:00 PM					N/A
5/28/2019	USDINR	3:30:00 PM					N/A
5/28/2019	USDJPY	9:30:00 AM	109.464	109.474			N/A
5/28/2019	USDJPY	11:30:00 AM	109.277	109.262			N/A
5/28/2019	USDJPY	1:30:00 PM	109.34	109.343			N/A
5/28/2019	USDJPY	3:30:00 PM	109.528	109.527			N/A
5/28/2019	USDJPY.fx	9:30:00 AM	109.47	109.466			N/A
5/28/2019	USDJPY.fx	11:30:00 AM	109.282	109.254			N/A
5/28/2019	USDJPY.fx	1:30:00 PM	109.346	109.336			N/A
5/28/2019	USDJPY.fx	3:30:00 PM	109.534	109.52			N/A

5/28/2019	USDMXN	9:30:00 AM	19.06	19.063			N/A
5/28/2019	USDMXN	11:30:00 AM	19.095	19.101			N/A
5/28/2019	USDMXN	1:30:00 PM	19.114	19.119			N/A
5/28/2019	USDMXN	3:30:00 PM	19.091	19.098			N/A
5/28/2019	USDMXN.fx	9:30:00 AM	19.0634	19.059			N/A
5/28/2019	USDMXN.fx	11:30:00 AM	19.0987	19.0969			N/A
5/28/2019	USDMXN.fx	1:30:00 PM	19.1168	19.1154			N/A
5/28/2019	USDMXN.fx	3:30:00 PM	19.0949	19.0934			N/A
5/28/2019	USDNOK	9:30:00 AM	8.6984	8.7073			N/A
5/28/2019	USDNOK	11:30:00 AM	8.6889	8.6973			N/A
5/28/2019	USDNOK	1:30:00 PM	8.6975	8.7057			N/A
5/28/2019	USDNOK	3:30:00 PM	8.6819	8.6905			N/A
5/28/2019	USDNOK.fx	9:30:00 AM	8.70218	8.7029			N/A
5/28/2019	USDNOK.fx	11:30:00 AM	8.69295	8.69202			N/A
5/28/2019	USDNOK.fx	1:30:00 PM	8.7017	8.70114			N/A
5/28/2019	USDNOK.fx	3:30:00 PM	8.68574	8.68609			N/A
5/28/2019	USDPLN	9:30:00 AM	3.8365	3.8367			N/A
5/28/2019	USDPLN	11:30:00 AM	3.8399	3.8404			N/A
5/28/2019	USDPLN	1:30:00 PM	3.8398	3.8406			N/A
5/28/2019	USDPLN	3:30:00 PM	3.839	3.8406			N/A
5/28/2019	USDPLN.fx	9:30:00 AM	3.83571	3.83749			N/A
5/28/2019	USDPLN.fx	11:30:00 AM	3.83926	3.84121			N/A
5/28/2019	USDPLN.fx	1:30:00 PM	3.839	3.84131			N/A
5/28/2019	USDPLN.fx	3:30:00 PM	3.83825	3.84133			N/A
5/28/2019	USDRUB	9:30:00 AM					N/A
5/28/2019	USDRUB	11:30:00 AM	64.354	64.733			N/A
5/28/2019	USDRUB	1:30:00 PM	64.438	64.823			N/A
5/28/2019	USDRUB	3:30:00 PM	64.41	64.78			N/A
5/28/2019	USDSEK	9:30:00 AM	9.5725	9.5755			N/A
5/28/2019	USDSEK	11:30:00 AM	9.5459	9.5498			N/A
5/28/2019	USDSEK	1:30:00 PM	9.5655	9.5699			N/A
5/28/2019	USDSEK	3:30:00 PM	9.5499	9.5529			N/A
5/28/2019	USDSEK.fx	9:30:00 AM	9.57528	9.57373			N/A
5/28/2019	USDSEK.fx	11:30:00 AM	9.54837	9.54798			N/A

5/28/2019	USDSEK.fx	1:30:00 PM	9.56814	9.56769			N/A
5/28/2019	USDSEK.fx	3:30:00 PM	9.55256	9.55106			N/A
5/28/2019	USDSGD	9:30:00 AM	1.3766	1.3769			N/A
5/28/2019	USDSGD	11:30:00 AM	1.3777	1.3781			N/A
5/28/2019	USDSGD	1:30:00 PM	1.3777	1.378			N/A
5/28/2019	USDSGD	3:30:00 PM	1.378	1.3782			N/A
5/28/2019	USDSGD.fx	9:30:00 AM	1.37647	1.3769			N/A
5/28/2019	USDSGD.fx	11:30:00 AM	1.37767	1.37809			N/A
5/28/2019	USDSGD.fx	1:30:00 PM	1.37762	1.37804			N/A
5/28/2019	USDSGD.fx	3:30:00 PM	1.37788	1.37834			N/A
5/28/2019	USDZAR	9:30:00 AM	14.4613	14.4619			N/A
5/28/2019	USDZAR	11:30:00 AM	14.5774	14.5882			N/A
5/28/2019	USDZAR	1:30:00 PM	14.6175	14.6293			N/A
5/28/2019	USDZAR	3:30:00 PM	14.6182	14.6327			N/A
5/28/2019	USDZAR.fx	9:30:00 AM					N/A
5/28/2019	USDZAR.fx	11:30:00 AM					N/A
5/28/2019	USDZAR.fx	1:30:00 PM					N/A
5/28/2019	USDZAR.fx	3:30:00 PM					N/A
5/28/2019	XAUUSD	9:30:00 AM	1283.38	1283.68			N/A
5/28/2019	XAUUSD	11:30:00 AM	1283.97	1284			N/A
5/28/2019	XAUUSD	1:30:00 PM	1283.59	1283.98			N/A
5/28/2019	XAUUSD	3:30:00 PM	1277.58	1277.27			N/A
5/28/2019	ZARJPY	9:30:00 AM	7.56	7.57			N/A
5/28/2019	ZARJPY	11:30:00 AM	7.48	7.49			N/A
5/28/2019	ZARJPY	1:30:00 PM	7.46	7.48			N/A
5/28/2019	ZARJPY	3:30:00 PM	7.47	7.49			N/A
5/28/2019	ZARJPY.fx	9:30:00 AM	7.571	7.567			N/A
5/28/2019	ZARJPY.fx	11:30:00 AM	7.492	7.492			N/A
5/28/2019	ZARJPY.fx	1:30:00 PM	7.476	7.477			N/A
5/28/2019	ZARJPY.fx	3:30:00 PM	7.488	7.49			N/A
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5/29/2019	#Bitcoin	11:30:00 AM	8589.5	8600.6			N/A
5/29/2019	#Bitcoin	1:30:00 PM	8699.5	8692.6			N/A
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5/29/2019	AUDCAD.fx	9:30:00 AM	0.93424	0.93428			N/A
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5/29/2019	AUDCAD.fx	1:30:00 PM	0.93455	0.93446			N/A
5/29/2019	AUDCAD.fx	3:30:00 PM	0.93445	0.93423			N/A
5/29/2019	AUDCHF	9:30:00 AM	0.69626	0.69693			N/A
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5/29/2019	AUDCZK	9:30:00 AM	16.012	16.029			N/A
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5/29/2019	AUDDKK	1:30:00 PM	4.6287	4.6326			N/A
5/29/2019	AUDDKK	3:30:00 PM	4.6338	4.6374			N/A
5/29/2019	AUDHKD	9:30:00 AM	5.4307	5.434			N/A
5/29/2019	AUDHKD	11:30:00 AM	5.4255	5.4284			N/A
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5/29/2019	AUDHKD	3:30:00 PM	5.4309	5.4348			N/A
5/29/2019	AUDHUF	9:30:00 AM	202.84	203.07			N/A
5/29/2019	AUDHUF	11:30:00 AM	202.73	202.89			N/A
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5/29/2019	AUDJPY	9:30:00 AM	75.579	75.639			N/A
5/29/2019	AUDJPY	11:30:00 AM	75.553	75.592			N/A
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5/29/2019	AUDJPY.fx	1:30:00 PM	75.66	75.633			N/A
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5/29/2019	AUDMXN	1:30:00 PM	13.2925	13.3001			N/A
5/29/2019	AUDMXN	3:30:00 PM	13.2993	13.3033			N/A
5/29/2019	AUDNOK	9:30:00 AM	6.0395	6.0443			N/A
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5/29/2019	AUDNOK.fx	9:30:00 AM	6.0411	6.0426			N/A
5/29/2019	AUDNOK.fx	11:30:00 AM	6.0457	6.0472			N/A
5/29/2019	AUDNOK.fx	1:30:00 PM	6.0521	6.0537			N/A
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5/29/2019	AUDNZD	3:30:00 PM	1.0613	1.06212			N/A
5/29/2019	AUDNZD.fx	9:30:00 AM	1.05858	1.0586			N/A
5/29/2019	AUDNZD.fx	11:30:00 AM	1.06055	1.0605			N/A
5/29/2019	AUDNZD.fx	1:30:00 PM	1.06142	1.06129			N/A
5/29/2019	AUDNZD.fx	3:30:00 PM	1.06175	1.06166			N/A
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5/29/2019	AUDPLN	3:30:00 PM	2.6689	2.6716			N/A
5/29/2019	AUDSEK	9:30:00 AM	6.6405	6.6436			N/A
5/29/2019	AUDSEK	11:30:00 AM	6.6432	6.6448			N/A
5/29/2019	AUDSEK	1:30:00 PM	6.6354	6.6379			N/A
5/29/2019	AUDSEK	3:30:00 PM	6.6452	6.6473			N/A
5/29/2019	AUDSEK.fx	9:30:00 AM	6.636	6.648			N/A
5/29/2019	AUDSEK.fx	11:30:00 AM	6.6386	6.6492			N/A

5/29/2019	AUDSEK.fx	1:30:00 PM	6.631	6.6424			N/A
5/29/2019	AUDSEK.fx	3:30:00 PM	6.6405	6.6517			N/A
5/29/2019	AUDSGD	9:30:00 AM	0.9567	0.9569			N/A
5/29/2019	AUDSGD	11:30:00 AM	0.9563	0.9565			N/A
5/29/2019	AUDSGD	1:30:00 PM	0.956	0.9561			N/A
5/29/2019	AUDSGD	3:30:00 PM	0.9566	0.9568			N/A
5/29/2019	AUDSGD.fx	9:30:00 AM	0.95677	0.95672			N/A
5/29/2019	AUDSGD.fx	11:30:00 AM	0.95637	0.95641			N/A
5/29/2019	AUDSGD.fx	1:30:00 PM	0.95614	0.95609			N/A
5/29/2019	AUDSGD.fx	3:30:00 PM	0.95666	0.95658			N/A
5/29/2019	AUDUSD	9:30:00 AM	0.69225	0.69236			N/A
5/29/2019	AUDUSD	11:30:00 AM	0.69163	0.69165			N/A
5/29/2019	AUDUSD	1:30:00 PM	0.69183	0.69184			N/A
5/29/2019	AUDUSD	3:30:00 PM	0.69241	0.69237			N/A
5/29/2019	AUDUSD.fx	9:30:00 AM	0.6923	0.6923			N/A
5/29/2019	AUDUSD.fx	11:30:00 AM	0.69169	0.69159			N/A
5/29/2019	AUDUSD.fx	1:30:00 PM	0.69188	0.69178			N/A
5/29/2019	AUDUSD.fx	3:30:00 PM	0.69246	0.69231			N/A
5/29/2019	AUDZAR	9:30:00 AM	10.2514	10.2593			N/A
5/29/2019	AUDZAR	11:30:00 AM	10.2751	10.2886			N/A
5/29/2019	AUDZAR	1:30:00 PM	10.2211	10.2328			N/A
5/29/2019	AUDZAR	3:30:00 PM	10.2261	10.2332			N/A
5/29/2019	AUS200.i	9:30:00 AM					N/A
5/29/2019	AUS200.i	11:30:00 AM	6421.68	6423.18			N/A
5/29/2019	AUS200.i	1:30:00 PM	6418.18	6421.68			N/A
5/29/2019	AUS200.i	3:30:00 PM	6404.68	6407.18			N/A
5/29/2019	BCHUSD	9:30:00 AM	438.2	439.58			N/A
5/29/2019	BCHUSD	11:30:00 AM	453.18	450.9			N/A
5/29/2019	BCHUSD	1:30:00 PM	461.1	461.61			N/A
5/29/2019	BCHUSD	3:30:00 PM	455.51	456.97			N/A
5/29/2019	CADCHF	9:30:00 AM	0.74525	0.74592			N/A
5/29/2019	CADCHF	11:30:00 AM	0.74412	0.74474			N/A
5/29/2019	CADCHF	1:30:00 PM	0.74445	0.74519			N/A
5/29/2019	CADCHF	3:30:00 PM	0.74493	0.74557			N/A

5/29/2019	CADCHF.fx	9:30:00 AM	0.74559	0.74555			N/A
5/29/2019	CADCHF.fx	11:30:00 AM	0.74446	0.74438			N/A
5/29/2019	CADCHF.fx	1:30:00 PM	0.74479	0.74483			N/A
5/29/2019	CADCHF.fx	3:30:00 PM	0.74528	0.74522			N/A
5/29/2019	CADCZK	9:30:00 AM	17.142	17.159			N/A
5/29/2019	CADCZK	11:30:00 AM	17.131	17.149			N/A
5/29/2019	CADCZK	1:30:00 PM	17.148	17.164			N/A
5/29/2019	CADCZK	3:30:00 PM	17.166	17.183			N/A
5/29/2019	CADDDKK	9:30:00 AM	4.956	4.96			N/A
5/29/2019	CADDDKK	11:30:00 AM					N/A
5/29/2019	CADDDKK	1:30:00 PM					N/A
5/29/2019	CADDDKK	3:30:00 PM					N/A
5/29/2019	CADHKD	9:30:00 AM	5.8138	5.8174			N/A
5/29/2019	CADHKD	11:30:00 AM	5.8082	5.8115			N/A
5/29/2019	CADHKD	1:30:00 PM	5.8088	5.8125			N/A
5/29/2019	CADHKD	3:30:00 PM	5.8142	5.818			N/A
5/29/2019	CADHUF	9:30:00 AM	217.19	217.36			N/A
5/29/2019	CADHUF	11:30:00 AM	217.06	217.17			N/A
5/29/2019	CADHUF	1:30:00 PM	216.75	216.91			N/A
5/29/2019	CADHUF	3:30:00 PM	216.7	216.85			N/A
5/29/2019	CADJPY	9:30:00 AM	80.899	80.955			N/A
5/29/2019	CADJPY	11:30:00 AM	80.865	80.905			N/A
5/29/2019	CADJPY	1:30:00 PM	80.922	80.977			N/A
5/29/2019	CADJPY	3:30:00 PM	80.974	81.038			N/A
5/29/2019	CADJPY.fx	9:30:00 AM	80.933	80.92			N/A
5/29/2019	CADJPY.fx	11:30:00 AM	80.898	80.87			N/A
5/29/2019	CADJPY.fx	1:30:00 PM	80.954	80.942			N/A
5/29/2019	CADJPY.fx	3:30:00 PM	81.007	81.003			N/A
5/29/2019	CADMXN	9:30:00 AM	14.231	14.2386			N/A
5/29/2019	CADMXN	11:30:00 AM	14.2452	14.2565			N/A
5/29/2019	CADMXN	1:30:00 PM	14.2252	14.2368			N/A
5/29/2019	CADMXN	3:30:00 PM	14.2386	14.2392			N/A
5/29/2019	CADNOK	9:30:00 AM	6.4632	6.4681			N/A
5/29/2019	CADNOK	11:30:00 AM	6.4676	6.4726			N/A

5/29/2019	CADNOK	1:30:00 PM	6.4735	6.4781			N/A
5/29/2019	CADNOK	3:30:00 PM	6.4882	6.4932			N/A
5/29/2019	CADPLN	9:30:00 AM	2.8528	2.8546			N/A
5/29/2019	CADPLN	11:30:00 AM	2.8519	2.8537			N/A
5/29/2019	CADPLN	1:30:00 PM	2.8535	2.8553			N/A
5/29/2019	CADPLN	3:30:00 PM	2.8566	2.8585			N/A
5/29/2019	CADSEK	9:30:00 AM	7.1055	7.1091			N/A
5/29/2019	CADSEK	11:30:00 AM	7.1075	7.1109			N/A
5/29/2019	CADSEK	1:30:00 PM	7.0983	7.1019			N/A
5/29/2019	CADSEK	3:30:00 PM	7.1096	7.1133			N/A
5/29/2019	CADSGD	9:30:00 AM	1.0233	1.0237			N/A
5/29/2019	CADSGD	11:30:00 AM	1.0231	1.0234			N/A
5/29/2019	CADSGD	1:30:00 PM	1.0224	1.0227			N/A
5/29/2019	CADSGD	3:30:00 PM	1.023	1.0233			N/A
5/29/2019	CADZAR	9:30:00 AM	10.9744	10.9836			N/A
5/29/2019	CADZAR	11:30:00 AM	10.9993	11.0148			N/A
5/29/2019	CADZAR	1:30:00 PM	10.9379	10.9534			N/A
5/29/2019	CADZAR	3:30:00 PM	10.9456	10.9533			N/A
5/29/2019	CHFCZK	9:30:00 AM	22.996	23.014			N/A
5/29/2019	CHFCZK	11:30:00 AM	23.018	23.035			N/A
5/29/2019	CHFCZK	1:30:00 PM	23.029	23.045			N/A
5/29/2019	CHFCZK	3:30:00 PM	23.04	23.056			N/A
5/29/2019	CHFDKK	9:30:00 AM	6.648	6.651			N/A
5/29/2019	CHFDKK	11:30:00 AM	6.653	6.657			N/A
5/29/2019	CHFDKK	1:30:00 PM	6.652	6.655			N/A
5/29/2019	CHFDKK	3:30:00 PM	6.658	6.66			N/A
5/29/2019	CHFDKK.fx	9:30:00 AM	6.6467	6.6528			N/A
5/29/2019	CHFDKK.fx	11:30:00 AM	6.6527	6.658			N/A
5/29/2019	CHFDKK.fx	1:30:00 PM	6.6511	6.6572			N/A
5/29/2019	CHFDKK.fx	3:30:00 PM	6.6562	6.6614			N/A
5/29/2019	CHFHKD	9:30:00 AM	7.7999	7.8037			N/A
5/29/2019	CHFHKD	11:30:00 AM	7.8036	7.8075			N/A
5/29/2019	CHFHKD	1:30:00 PM	7.8003	7.8042			N/A
5/29/2019	CHFHKD	3:30:00 PM	7.8035	7.8073			N/A

5/29/2019	CHFHUF	9:30:00 AM	291.25	291.64			N/A
5/29/2019	CHFHUF	11:30:00 AM	291.5	291.86			N/A
5/29/2019	CHFHUF	1:30:00 PM	290.96	291.35			N/A
5/29/2019	CHFHUF	3:30:00 PM	290.72	291.06			N/A
5/29/2019	CHFJPY	9:30:00 AM	108.494	108.561			N/A
5/29/2019	CHFJPY	11:30:00 AM	108.614	108.656			N/A
5/29/2019	CHFJPY	1:30:00 PM	108.639	108.692			N/A
5/29/2019	CHFJPY	3:30:00 PM	108.646	108.706			N/A
5/29/2019	CHFJPY.fx	9:30:00 AM	108.526	108.526			N/A
5/29/2019	CHFJPY.fx	11:30:00 AM	108.649	108.621			N/A
5/29/2019	CHFJPY.fx	1:30:00 PM	108.671	108.658			N/A
5/29/2019	CHFJPY.fx	3:30:00 PM	108.679	108.671			N/A
5/29/2019	CHFMXN	9:30:00 AM	19.0882	19.1008			N/A
5/29/2019	CHFMXN	11:30:00 AM	19.1399	19.151			N/A
5/29/2019	CHFMXN	1:30:00 PM	19.1005	19.1175			N/A
5/29/2019	CHFMXN	3:30:00 PM	19.1071	19.1104			N/A
5/29/2019	CHFNOK	9:30:00 AM	8.67	8.6767			N/A
5/29/2019	CHFNOK	11:30:00 AM	8.69	8.6966			N/A
5/29/2019	CHFNOK	1:30:00 PM	8.6928	8.6997			N/A
5/29/2019	CHFNOK	3:30:00 PM	8.7073	8.7147			N/A
5/29/2019	CHFNOK.fx	9:30:00 AM	8.67357	8.67319			N/A
5/29/2019	CHFNOK.fx	11:30:00 AM	8.69354	8.69296			N/A
5/29/2019	CHFNOK.fx	1:30:00 PM	8.6963	8.69609			N/A
5/29/2019	CHFNOK.fx	3:30:00 PM	8.71107	8.71103			N/A
5/29/2019	CHFPLN	9:30:00 AM	3.8265	3.8293			N/A
5/29/2019	CHFPLN	11:30:00 AM	3.8316	3.8344			N/A
5/29/2019	CHFPLN	1:30:00 PM	3.831	3.8342			N/A
5/29/2019	CHFPLN	3:30:00 PM	3.8334	3.8362			N/A
5/29/2019	CHFPLN.fx	9:30:00 AM	3.82416	3.83155			N/A
5/29/2019	CHFPLN.fx	11:30:00 AM	3.82926	3.83661			N/A
5/29/2019	CHFPLN.fx	1:30:00 PM	3.82864	3.83653			N/A
5/29/2019	CHFPLN.fx	3:30:00 PM	3.83104	3.83853			N/A
5/29/2019	CHFSEK	9:30:00 AM	9.532	9.5362			N/A
5/29/2019	CHFSEK	11:30:00 AM	9.5489	9.5533			N/A

5/29/2019	CHFSEK	1:30:00 PM	9.5315	9.5361			N/A
5/29/2019	CHFSEK	3:30:00 PM	9.541	9.5457			N/A
5/29/2019	CHFSGD	9:30:00 AM	1.3736	1.3737			N/A
5/29/2019	CHFSGD	11:30:00 AM	1.3749	1.3754			N/A
5/29/2019	CHFSGD	1:30:00 PM	1.3735	1.374			N/A
5/29/2019	CHFSGD	3:30:00 PM	1.3738	1.3741			N/A
5/29/2019	CHFSGD.fx	9:30:00 AM	1.37372	1.37347			N/A
5/29/2019	CHFSGD.fx	11:30:00 AM	1.37521	1.37517			N/A
5/29/2019	CHFSGD.fx	1:30:00 PM	1.37363	1.37384			N/A
5/29/2019	CHFSGD.fx	3:30:00 PM	1.37393	1.37393			N/A
5/29/2019	CHFZAR	9:30:00 AM	14.7259	14.7276			N/A
5/29/2019	CHFZAR	11:30:00 AM	14.7803	14.7947			N/A
5/29/2019	CHFZAR	1:30:00 PM	14.6918	14.7042			N/A
5/29/2019	CHFZAR	3:30:00 PM	14.6925	14.695			N/A
5/29/2019	CZKJPY	9:30:00 AM	4.718	4.722			N/A
5/29/2019	CZKJPY	11:30:00 AM	4.719	4.722			N/A
5/29/2019	CZKJPY	1:30:00 PM	4.718	4.721			N/A
5/29/2019	CZKJPY	3:30:00 PM					N/A
5/29/2019	DAX30.i	9:30:00 AM	11913.92	11908.27			N/A
5/29/2019	DAX30.i	11:30:00 AM	11877.52	11869.02			N/A
5/29/2019	DAX30.i	1:30:00 PM	11883.02	11882.02			N/A
5/29/2019	DAX30.i	3:30:00 PM	11837.27	11833.42			N/A
5/29/2019	DJ30.i	9:30:00 AM					N/A
5/29/2019	DJ30.i	11:30:00 AM					N/A
5/29/2019	DJ30.i	1:30:00 PM					N/A
5/29/2019	DJ30.i	3:30:00 PM					N/A
5/29/2019	DKKJPY	9:30:00 AM					N/A
5/29/2019	DKKJPY	11:30:00 AM					N/A
5/29/2019	DKKJPY	1:30:00 PM	16.34	16.36			N/A
5/29/2019	DKKJPY	3:30:00 PM					N/A
5/29/2019	EURAUD	9:30:00 AM	1.61141	1.61174			N/A
5/29/2019	EURAUD	11:30:00 AM	1.61249	1.61283			N/A
5/29/2019	EURAUD	1:30:00 PM	1.61174	1.61188			N/A
5/29/2019	EURAUD	3:30:00 PM	1.60997	1.61001			N/A

5/29/2019	EURAUD.fx	9:30:00 AM	1.6116	1.61151			N/A
5/29/2019	EURAUD.fx	11:30:00 AM	1.6127	1.6126			N/A
5/29/2019	EURAUD.fx	1:30:00 PM	1.61195	1.61165			N/A
5/29/2019	EURAUD.fx	3:30:00 PM	1.61018	1.60979			N/A
5/29/2019	EURCAD	9:30:00 AM	1.50582	1.50658			N/A
5/29/2019	EURCAD	11:30:00 AM	1.50686	1.50768			N/A
5/29/2019	EURCAD	1:30:00 PM	1.50638	1.50724			N/A
5/29/2019	EURCAD	3:30:00 PM	1.5045	1.50523			N/A
5/29/2019	EURCAD.fx	9:30:00 AM	1.50622	1.50617			N/A
5/29/2019	EURCAD.fx	11:30:00 AM	1.50729	1.50725			N/A
5/29/2019	EURCAD.fx	1:30:00 PM	1.5068	1.50681			N/A
5/29/2019	EURCAD.fx	3:30:00 PM	1.50492	1.50481			N/A
5/29/2019	EURCHF	9:30:00 AM	1.12316	1.12328			N/A
5/29/2019	EURCHF	11:30:00 AM	1.12225	1.12225			N/A
5/29/2019	EURCHF	1:30:00 PM	1.12244	1.12256			N/A
5/29/2019	EURCHF	3:30:00 PM	1.12167	1.12163			N/A
5/29/2019	EURCHF.fx	9:30:00 AM	1.12322	1.12321			N/A
5/29/2019	EURCHF.fx	11:30:00 AM	1.12232	1.12218			N/A
5/29/2019	EURCHF.fx	1:30:00 PM	1.12251	1.12251			N/A
5/29/2019	EURCHF.fx	3:30:00 PM	1.12174	1.12156			N/A
5/29/2019	EURCZK	9:30:00 AM					N/A
5/29/2019	EURCZK	11:30:00 AM	25.813	25.853			N/A
5/29/2019	EURCZK	1:30:00 PM					N/A
5/29/2019	EURCZK	3:30:00 PM					N/A
5/29/2019	EURDKK	9:30:00 AM					N/A
5/29/2019	EURDKK	11:30:00 AM	7.4677	7.469			N/A
5/29/2019	EURDKK	1:30:00 PM					N/A
5/29/2019	EURDKK	3:30:00 PM	7.4643	7.4655			N/A
5/29/2019	EURGBP	9:30:00 AM	0.88179	0.88191			N/A
5/29/2019	EURGBP	11:30:00 AM	0.88299	0.88308			N/A
5/29/2019	EURGBP	1:30:00 PM	0.88194	0.88202			N/A
5/29/2019	EURGBP	3:30:00 PM	0.88188	0.88192			N/A
5/29/2019	EURGBP.fx	9:30:00 AM	0.88182	0.88185			N/A
5/29/2019	EURGBP.fx	11:30:00 AM	0.88303	0.88302			N/A

5/29/2019	EURGBP.fx	1:30:00 PM	0.88198	0.88196			N/A
5/29/2019	EURGBP.fx	3:30:00 PM	0.88192	0.88187			N/A
5/29/2019	EURHKD	9:30:00 AM	8.7581	8.7635			N/A
5/29/2019	EURHKD	11:30:00 AM	8.7558	8.7607			N/A
5/29/2019	EURHKD	1:30:00 PM	8.7535	8.759			N/A
5/29/2019	EURHKD	3:30:00 PM	8.7513	8.756			N/A
5/29/2019	EURHKD.fx	9:30:00 AM	8.76093	8.7606			N/A
5/29/2019	EURHKD.fx	11:30:00 AM	8.75862	8.75785			N/A
5/29/2019	EURHKD.fx	1:30:00 PM	8.75634	8.75619			N/A
5/29/2019	EURHKD.fx	3:30:00 PM	8.75408	8.75307			N/A
5/29/2019	EURHUF	9:30:00 AM	327.01	327.61			N/A
5/29/2019	EURHUF	11:30:00 AM	327.04	327.69			N/A
5/29/2019	EURHUF	1:30:00 PM	326.48	327.07			N/A
5/29/2019	EURHUF	3:30:00 PM	325.97	326.68			N/A
5/29/2019	EURHUF.fx	9:30:00 AM	327.289	327.478			N/A
5/29/2019	EURHUF.fx	11:30:00 AM	327.311	327.418			N/A
5/29/2019	EURHUF.fx	1:30:00 PM	326.761	326.94			N/A
5/29/2019	EURHUF.fx	3:30:00 PM	326.249	326.388			N/A
5/29/2019	EURJPY	9:30:00 AM	121.893	121.896			N/A
5/29/2019	EURJPY	11:30:00 AM	121.932	121.898			N/A
5/29/2019	EURJPY	1:30:00 PM	121.977	121.968			N/A
5/29/2019	EURJPY	3:30:00 PM	121.904	121.898			N/A
5/29/2019	EURJPY.fx	9:30:00 AM	121.895	121.893			N/A
5/29/2019	EURJPY.fx	11:30:00 AM	121.935	121.894			N/A
5/29/2019	EURJPY.fx	1:30:00 PM	121.98	121.964			N/A
5/29/2019	EURJPY.fx	3:30:00 PM	121.907	121.894			N/A
5/29/2019	EURMXN	9:30:00 AM	21.4373	21.4527			N/A
5/29/2019	EURMXN	11:30:00 AM	21.4756	21.491			N/A
5/29/2019	EURMXN	1:30:00 PM	21.437	21.4576			N/A
5/29/2019	EURMXN	3:30:00 PM	21.4292	21.4302			N/A
5/29/2019	EURMXN.fx	9:30:00 AM	21.4464	21.444			N/A
5/29/2019	EURMXN.fx	11:30:00 AM	21.4838	21.4823			N/A
5/29/2019	EURMXN.fx	1:30:00 PM	21.4455	21.4486			N/A
5/29/2019	EURMXN.fx	3:30:00 PM	21.4389	21.4207			N/A

5/29/2019	EURNOK	9:30:00 AM	9.7363	9.7475			N/A
5/29/2019	EURNOK	11:30:00 AM	9.7501	9.7619			N/A
5/29/2019	EURNOK	1:30:00 PM	9.7563	9.7667			N/A
5/29/2019	EURNOK	3:30:00 PM	9.7657	9.7769			N/A
5/29/2019	EURNOK.fx	9:30:00 AM	9.74189	9.74186			N/A
5/29/2019	EURNOK.fx	11:30:00 AM	9.75552	9.75644			N/A
5/29/2019	EURNOK.fx	1:30:00 PM	9.76169	9.76118			N/A
5/29/2019	EURNOK.fx	3:30:00 PM	9.77128	9.77139			N/A
5/29/2019	EURNZD	9:30:00 AM	1.70629	1.70701			N/A
5/29/2019	EURNZD	11:30:00 AM	1.71057	1.71138			N/A
5/29/2019	EURNZD	1:30:00 PM	1.71126	1.71134			N/A
5/29/2019	EURNZD	3:30:00 PM	1.7097	1.71031			N/A
5/29/2019	EURNZD.fx	9:30:00 AM	1.70671	1.70656			N/A
5/29/2019	EURNZD.fx	11:30:00 AM	1.711	1.71094			N/A
5/29/2019	EURNZD.fx	1:30:00 PM	1.71167	1.71095			N/A
5/29/2019	EURNZD.fx	3:30:00 PM	1.71014	1.70984			N/A
5/29/2019	EURPLN	9:30:00 AM	4.2975	4.3002			N/A
5/29/2019	EURPLN	11:30:00 AM	4.2991	4.3024			N/A
5/29/2019	EURPLN	1:30:00 PM	4.2999	4.3031			N/A
5/29/2019	EURPLN	3:30:00 PM	4.299	4.3023			N/A
5/29/2019	EURPLN.fx	9:30:00 AM	4.29698	4.30082			N/A
5/29/2019	EURPLN.fx	11:30:00 AM	4.29857	4.30302			N/A
5/29/2019	EURPLN.fx	1:30:00 PM	4.29927	4.30356			N/A
5/29/2019	EURPLN.fx	3:30:00 PM	4.29837	4.30282			N/A
5/29/2019	EURRUB	9:30:00 AM					N/A
5/29/2019	EURRUB	11:30:00 AM	72.128	72.567			N/A
5/29/2019	EURRUB	1:30:00 PM	72.306	72.739			N/A
5/29/2019	EURRUB	3:30:00 PM	72.4	72.834			N/A
5/29/2019	EURSEK	9:30:00 AM	10.7073	10.7121			N/A
5/29/2019	EURSEK	11:30:00 AM	10.7186	10.7218			N/A
5/29/2019	EURSEK	1:30:00 PM	10.7005	10.7048			N/A
5/29/2019	EURSEK	3:30:00 PM	10.7038	10.7074			N/A
5/29/2019	EURSEK.fx	9:30:00 AM	10.70892	10.71055			N/A
5/29/2019	EURSEK.fx	11:30:00 AM	10.72019	10.72004			N/A

5/29/2019	EURSEK.fx	1:30:00 PM	10.7023	10.70294			N/A
5/29/2019	EURSEK.fx	3:30:00 PM	10.70557	10.70563			N/A
5/29/2019	EURSGD	9:30:00 AM	1.5422	1.5427			N/A
5/29/2019	EURSGD	11:30:00 AM	1.5425	1.5434			N/A
5/29/2019	EURSGD	1:30:00 PM	1.5412	1.5421			N/A
5/29/2019	EURSGD	3:30:00 PM	1.5404	1.5412			N/A
5/29/2019	EURSGD.fx	9:30:00 AM	1.54264	1.54232			N/A
5/29/2019	EURSGD.fx	11:30:00 AM	1.54288	1.54297			N/A
5/29/2019	EURSGD.fx	1:30:00 PM	1.54163	1.54172			N/A
5/29/2019	EURSGD.fx	3:30:00 PM	1.54078	1.54077			N/A
5/29/2019	EURUSD	9:30:00 AM	1.11589	1.11601			N/A
5/29/2019	EURUSD	11:30:00 AM	1.1156	1.11567			N/A
5/29/2019	EURUSD	1:30:00 PM	1.11528	1.11543		10	N/A
5/29/2019	EURUSD	3:30:00 PM	1.11503	1.11509			N/A
5/29/2019	EURUSD.fx	9:30:00 AM	1.1161	1.1161			N/A
5/29/2019	EURUSD.fx	11:30:00 AM	1.11581	1.11576			N/A
5/29/2019	EURUSD.fx	1:30:00 PM	1.11548	1.11552			N/A
5/29/2019	EURUSD.fx	3:30:00 PM	1.11523	1.11518			N/A
5/29/2019	EURZAR	9:30:00 AM	16.5368	16.5452			N/A
5/29/2019	EURZAR	11:30:00 AM	16.5867	16.6052			N/A
5/29/2019	EURZAR	1:30:00 PM	16.489	16.5065			N/A
5/29/2019	EURZAR	3:30:00 PM	16.4795	16.4836			N/A
5/29/2019	EURZAR.fx	9:30:00 AM	16.53709	16.54617			N/A
5/29/2019	EURZAR.fx	11:30:00 AM	16.58603	16.60603			N/A
5/29/2019	EURZAR.fx	1:30:00 PM	16.48874	16.50691			N/A
5/29/2019	EURZAR.fx	3:30:00 PM	16.47893	16.48398			N/A
5/29/2019	GBPAUD	9:30:00 AM	1.82786	1.82847			N/A
5/29/2019	GBPAUD	11:30:00 AM	1.82671	1.82731			N/A
5/29/2019	GBPAUD	1:30:00 PM	1.82794	1.82841			N/A
5/29/2019	GBPAUD	3:30:00 PM	1.82622	1.82637			N/A
5/29/2019	GBPAUD.fx	9:30:00 AM	1.82827	1.82805			N/A
5/29/2019	GBPAUD.fx	11:30:00 AM	1.82711	1.82691			N/A
5/29/2019	GBPAUD.fx	1:30:00 PM	1.82833	1.82801			N/A
5/29/2019	GBPAUD.fx	3:30:00 PM	1.82662	1.82596			N/A

5/29/2019	GBPCAD	9:30:00 AM	1.70764	1.70837			N/A
5/29/2019	GBPCAD	11:30:00 AM	1.70658	1.70738			N/A
5/29/2019	GBPCAD	1:30:00 PM	1.7081	1.70884			N/A
5/29/2019	GBPCAD	3:30:00 PM	1.70601	1.70669			N/A
5/29/2019	GBPCAD.fx	9:30:00 AM	1.70804	1.70797			N/A
5/29/2019	GBPCAD.fx	11:30:00 AM	1.70698	1.70697			N/A
5/29/2019	GBPCAD.fx	1:30:00 PM	1.70849	1.70845			N/A
5/29/2019	GBPCAD.fx	3:30:00 PM	1.70641	1.7063			N/A
5/29/2019	GBPCHF	9:30:00 AM	1.27339	1.27382			N/A
5/29/2019	GBPCHF	11:30:00 AM	1.27065	1.27097			N/A
5/29/2019	GBPCHF	1:30:00 PM	1.27239	1.27282			N/A
5/29/2019	GBPCHF	3:30:00 PM	1.27164	1.27192			N/A
5/29/2019	GBPCHF.fx	9:30:00 AM	1.27359	1.27361			N/A
5/29/2019	GBPCHF.fx	11:30:00 AM	1.27085	1.27076			N/A
5/29/2019	GBPCHF.fx	1:30:00 PM	1.27259	1.27261			N/A
5/29/2019	GBPCHF.fx	3:30:00 PM	1.27183	1.27171			N/A
5/29/2019	GBPCZK	9:30:00 AM	29.279	29.302			N/A
5/29/2019	GBPCZK	11:30:00 AM	29.243	29.264			N/A
5/29/2019	GBPCZK	1:30:00 PM	29.297	29.318			N/A
5/29/2019	GBPCZK	3:30:00 PM	29.292	29.313			N/A
5/29/2019	GBPDKK	9:30:00 AM	8.464	8.475			N/A
5/29/2019	GBPDKK	11:30:00 AM	8.452	8.463			N/A
5/29/2019	GBPDKK	1:30:00 PM	8.463	8.473			N/A
5/29/2019	GBPDKK	3:30:00 PM	8.463	8.474			N/A
5/29/2019	GBPDKK.fx	9:30:00 AM	8.4622	8.4753			N/A
5/29/2019	GBPDKK.fx	11:30:00 AM	8.4508	8.4637			N/A
5/29/2019	GBPDKK.fx	1:30:00 PM	8.4616	8.4739			N/A
5/29/2019	GBPDKK.fx	3:30:00 PM	8.4619	8.4741			N/A
5/29/2019	GBPHKD	9:30:00 AM	9.9292	9.9349			N/A
5/29/2019	GBPHKD	11:30:00 AM	9.9137	9.9177			N/A
5/29/2019	GBPHKD	1:30:00 PM	9.9234	9.9279			N/A
5/29/2019	GBPHKD	3:30:00 PM	9.9212	9.9262			N/A
5/29/2019	GBPHUF	9:30:00 AM	370.82	371.29			N/A
5/29/2019	GBPHUF	11:30:00 AM	370.36	370.74			N/A

5/29/2019	GBPHUF	1:30:00 PM	370.17	370.63			N/A
5/29/2019	GBPHUF	3:30:00 PM	369.62	370.09			N/A
5/29/2019	GBPJPY	9:30:00 AM	138.213	138.245			N/A
5/29/2019	GBPJPY	11:30:00 AM	138.071	138.064			N/A
5/29/2019	GBPJPY	1:30:00 PM	138.286	138.3			N/A
5/29/2019	GBPJPY	3:30:00 PM	138.215	138.233			N/A
5/29/2019	GBPJPY.fx	9:30:00 AM	138.232	138.225			N/A
5/29/2019	GBPJPY.fx	11:30:00 AM	138.092	138.044			N/A
5/29/2019	GBPJPY.fx	1:30:00 PM	138.306	138.281			N/A
5/29/2019	GBPJPY.fx	3:30:00 PM	138.234	138.213			N/A
5/29/2019	GBPMXN	9:30:00 AM	24.3053	24.3146			N/A
5/29/2019	GBPMXN	11:30:00 AM	24.3157	24.3275			N/A
5/29/2019	GBPMXN	1:30:00 PM	24.3029	24.3168			N/A
5/29/2019	GBPMXN	3:30:00 PM	24.2969	24.2907			N/A
5/29/2019	GBPNOK	9:30:00 AM	11.0409	11.0513			N/A
5/29/2019	GBPNOK	11:30:00 AM	11.0424	11.0534			N/A
5/29/2019	GBPNOK	1:30:00 PM	11.0618	11.0718			N/A
5/29/2019	GBPNOK	3:30:00 PM	11.0743	11.0837			N/A
5/29/2019	GBPNOK.fx	9:30:00 AM	11.04584	11.04664			N/A
5/29/2019	GBPNOK.fx	11:30:00 AM	11.04719	11.04852			N/A
5/29/2019	GBPNOK.fx	1:30:00 PM	11.06678	11.06678			N/A
5/29/2019	GBPNOK.fx	3:30:00 PM	11.07911	11.07902			N/A
5/29/2019	GBPNZD	9:30:00 AM	1.93506	1.93562			N/A
5/29/2019	GBPNZD	11:30:00 AM	1.93734	1.938			N/A
5/29/2019	GBPNZD	1:30:00 PM	1.94033	1.94032			N/A
5/29/2019	GBPNZD	3:30:00 PM	1.93882	1.93917			N/A
5/29/2019	GBPNZD.fx	9:30:00 AM	1.93542	1.93521			N/A
5/29/2019	GBPNZD.fx	11:30:00 AM	1.93767	1.93763			N/A
5/29/2019	GBPNZD.fx	1:30:00 PM	1.9407	1.93993			N/A
5/29/2019	GBPNZD.fx	3:30:00 PM	1.93916	1.93878			N/A
5/29/2019	GBPPLN	9:30:00 AM	4.8741	4.8758			N/A
5/29/2019	GBPPLN	11:30:00 AM	4.8696	4.8714			N/A
5/29/2019	GBPPLN	1:30:00 PM	4.8761	4.878			N/A
5/29/2019	GBPPLN	3:30:00 PM	4.8759	4.8773			N/A

5/29/2019	GBPPLN.fx	9:30:00 AM	4.87206	4.87797			N/A
5/29/2019	GBPPLN.fx	11:30:00 AM	4.86754	4.87354			N/A
5/29/2019	GBPPLN.fx	1:30:00 PM	4.87399	4.88001			N/A
5/29/2019	GBPPLN.fx	3:30:00 PM	4.87379	4.87942			N/A
5/29/2019	GBPSEK	9:30:00 AM	12.1386	12.1485			N/A
5/29/2019	GBPSEK	11:30:00 AM	12.1355	12.1428			N/A
5/29/2019	GBPSEK	1:30:00 PM	12.1299	12.1385			N/A
5/29/2019	GBPSEK	3:30:00 PM	12.1346	12.1417			N/A
5/29/2019	GBPSEK.fx	9:30:00 AM	12.13492	12.15215			N/A
5/29/2019	GBPSEK.fx	11:30:00 AM	12.13183	12.14646			N/A
5/29/2019	GBPSEK.fx	1:30:00 PM	12.1261	12.14235			N/A
5/29/2019	GBPSEK.fx	3:30:00 PM	12.13096	12.14539			N/A
5/29/2019	GBPSGD	9:30:00 AM	1.749	1.7493			N/A
5/29/2019	GBPSGD	11:30:00 AM	1.747	1.7477			N/A
5/29/2019	GBPSGD	1:30:00 PM	1.7477	1.7483			N/A
5/29/2019	GBPSGD	3:30:00 PM	1.7468	1.7474			N/A
5/29/2019	GBPSGD.fx	9:30:00 AM	1.74715	1.75115			N/A
5/29/2019	GBPSGD.fx	11:30:00 AM	1.74516	1.74948			N/A
5/29/2019	GBPSGD.fx	1:30:00 PM	1.7458	1.75016			N/A
5/29/2019	GBPSGD.fx	3:30:00 PM	1.74496	1.7492			N/A
5/29/2019	GBPUSD	9:30:00 AM	1.2656	1.26566			N/A
5/29/2019	GBPUSD	11:30:00 AM	1.26362	1.26359			N/A
5/29/2019	GBPUSD	1:30:00 PM	1.26477	1.26478			N/A
5/29/2019	GBPUSD	3:30:00 PM	1.26451	1.26449			N/A
5/29/2019	GBPUSD.fx	9:30:00 AM	1.26566	1.26561			N/A
5/29/2019	GBPUSD.fx	11:30:00 AM	1.26368	1.2635			N/A
5/29/2019	GBPUSD.fx	1:30:00 PM	1.26482	1.26472			N/A
5/29/2019	GBPUSD.fx	3:30:00 PM	1.26457	1.26443			N/A
5/29/2019	GBPZAR	9:30:00 AM	18.7499	18.7658			N/A
5/29/2019	GBPZAR	11:30:00 AM	18.7804	18.8075			N/A
5/29/2019	GBPZAR	1:30:00 PM	18.6919	18.7185			N/A
5/29/2019	GBPZAR	3:30:00 PM	18.6831	18.6956			N/A
5/29/2019	GBPZAR.fx	9:30:00 AM	18.7565	18.7587			N/A
5/29/2019	GBPZAR.fx	11:30:00 AM	18.7875	18.8005			N/A

5/29/2019	GBPZAR.fx	1:30:00 PM	18.699	18.7113			N/A
5/29/2019	GBPZAR.fx	3:30:00 PM	18.6902	18.6866			N/A
5/29/2019	GOLD	9:30:00 AM	1283.18	1283.39			N/A
5/29/2019	GOLD	11:30:00 AM	1284.81	1285.08			N/A
5/29/2019	GOLD	1:30:00 PM	1283.45	1283.67			N/A
5/29/2019	GOLD	3:30:00 PM	1283.98	1283.84			N/A
5/29/2019	HKDJPY	9:30:00 AM	13.91	13.92			N/A
5/29/2019	HKDJPY	11:30:00 AM	13.92	13.93			N/A
5/29/2019	HKDJPY	1:30:00 PM	13.93	13.94			N/A
5/29/2019	HKDJPY	3:30:00 PM	13.93	13.94			N/A
5/29/2019	HKDJPY.fx	9:30:00 AM	13.91	13.916			N/A
5/29/2019	HKDJPY.fx	11:30:00 AM	13.917	13.921			N/A
5/29/2019	HKDJPY.fx	1:30:00 PM	13.927	13.932			N/A
5/29/2019	HKDJPY.fx	3:30:00 PM	13.921	13.928			N/A
5/29/2019	HUFJPY	9:30:00 AM	0.3726	0.3729			N/A
5/29/2019	HUFJPY	11:30:00 AM	0.3726	0.3729			N/A
5/29/2019	HUFJPY	1:30:00 PM	0.3734	0.3737			N/A
5/29/2019	HUFJPY	3:30:00 PM	0.3738	0.3741			N/A
5/29/2019	JP225.i	9:30:00 AM	20903.05	20918.05			N/A
5/29/2019	JP225.i	11:30:00 AM	20898.05	20898.05			N/A
5/29/2019	JP225.i	1:30:00 PM	20900.55	20914.72			N/A
5/29/2019	JP225.i	3:30:00 PM	20868.05	20878.05			N/A
5/29/2019	MXNJPY	9:30:00 AM	5.67	5.69			N/A
5/29/2019	MXNJPY	11:30:00 AM	5.68	5.68			N/A
5/29/2019	MXNJPY	1:30:00 PM	5.69	5.7			N/A
5/29/2019	MXNJPY	3:30:00 PM	5.69	5.7			N/A
5/29/2019	NASDAQ.i	9:30:00 AM					N/A
5/29/2019	NASDAQ.i	11:30:00 AM					N/A
5/29/2019	NASDAQ.i	1:30:00 PM					N/A
5/29/2019	NASDAQ.i	3:30:00 PM					N/A
5/29/2019	NOKJPY	9:30:00 AM	12.5	12.53			N/A
5/29/2019	NOKJPY	11:30:00 AM	12.49	12.51			N/A
5/29/2019	NOKJPY	1:30:00 PM	12.49	12.51			N/A
5/29/2019	NOKJPY	3:30:00 PM	12.47	12.5			N/A

5/29/2019	NOKJPY.fx	9:30:00 AM	12.51	12.515			N/A
5/29/2019	NOKJPY.fx	11:30:00 AM	12.495	12.498			N/A
5/29/2019	NOKJPY.fx	1:30:00 PM	12.494	12.498			N/A
5/29/2019	NOKJPY.fx	3:30:00 PM	12.473	12.479			N/A
5/29/2019	NZDCAD	9:30:00 AM	0.88221	0.88289			N/A
5/29/2019	NZDCAD	11:30:00 AM	0.88061	0.88131			N/A
5/29/2019	NZDCAD	1:30:00 PM	0.88028	0.8807			N/A
5/29/2019	NZDCAD	3:30:00 PM	0.8797	0.8803			N/A
5/29/2019	NZDCAD.fx	9:30:00 AM	0.88253	0.88253			N/A
5/29/2019	NZDCAD.fx	11:30:00 AM	0.88095	0.88097			N/A
5/29/2019	NZDCAD.fx	1:30:00 PM	0.88063	0.88036			N/A
5/29/2019	NZDCAD.fx	3:30:00 PM	0.88003	0.87996			N/A
5/29/2019	NZDCHF	9:30:00 AM	0.65764	0.65831			N/A
5/29/2019	NZDCHF	11:30:00 AM	0.65543	0.65609			N/A
5/29/2019	NZDCHF	1:30:00 PM	0.65554	0.656			N/A
5/29/2019	NZDCHF	3:30:00 PM	0.65549	0.65614			N/A
5/29/2019	NZDCHF.fx	9:30:00 AM	0.65798	0.65796			N/A
5/29/2019	NZDCHF.fx	11:30:00 AM	0.65576	0.65574			N/A
5/29/2019	NZDCHF.fx	1:30:00 PM	0.65587	0.65565			N/A
5/29/2019	NZDCHF.fx	3:30:00 PM	0.65583	0.65579			N/A
5/29/2019	NZDCZK	9:30:00 AM	15.128	15.14			N/A
5/29/2019	NZDCZK	11:30:00 AM					N/A
5/29/2019	NZDCZK	1:30:00 PM	15.101	15.106			N/A
5/29/2019	NZDCZK	3:30:00 PM	15.107	15.117			N/A
5/29/2019	NZDDKK	9:30:00 AM					N/A
5/29/2019	NZDDKK	11:30:00 AM					N/A
5/29/2019	NZDDKK	1:30:00 PM	4.361	4.363			N/A
5/29/2019	NZDDKK	3:30:00 PM	4.364	4.368			N/A
5/29/2019	NZDHKD	9:30:00 AM	5.1302	5.1331			N/A
5/29/2019	NZDHKD	11:30:00 AM	5.1156	5.1185			N/A
5/29/2019	NZDHKD	1:30:00 PM	5.1141	5.115			N/A
5/29/2019	NZDHKD	3:30:00 PM	5.116	5.1188			N/A
5/29/2019	NZDHUF	9:30:00 AM	191.58	191.86			N/A
5/29/2019	NZDHUF	11:30:00 AM	191.1	191.35			N/A

5/29/2019	NZDHUF	1:30:00 PM	190.76	190.98			N/A
5/29/2019	NZDHUF	3:30:00 PM	190.59	190.84			N/A
5/29/2019	NZDJPY	9:30:00 AM	71.393	71.455			N/A
5/29/2019	NZDJPY	11:30:00 AM	71.233	71.28			N/A
5/29/2019	NZDJPY	1:30:00 PM	71.259	71.296			N/A
5/29/2019	NZDJPY	3:30:00 PM	71.254	71.323			N/A
5/29/2019	NZDJPY.fx	9:30:00 AM	71.426	71.423			N/A
5/29/2019	NZDJPY.fx	11:30:00 AM	71.264	71.247			N/A
5/29/2019	NZDJPY.fx	1:30:00 PM	71.29	71.257			N/A
5/29/2019	NZDJPY.fx	3:30:00 PM	71.285	71.29			N/A
5/29/2019	NZDMXN	9:30:00 AM	12.5588	12.5613			N/A
5/29/2019	NZDMXN	11:30:00 AM	12.5485	12.5532			N/A
5/29/2019	NZDMXN	1:30:00 PM	12.5265	12.5276			N/A
5/29/2019	NZDMXN	3:30:00 PM	12.5284	12.5265			N/A
5/29/2019	NZDNOK	9:30:00 AM	5.7026	5.7065			N/A
5/29/2019	NZDNOK	11:30:00 AM	5.6968	5.7006			N/A
5/29/2019	NZDNOK	1:30:00 PM	5.6989	5.7012			N/A
5/29/2019	NZDNOK	3:30:00 PM	5.7085	5.7124			N/A
5/29/2019	NZDPLN	9:30:00 AM	2.5175	2.5189			N/A
5/29/2019	NZDPLN	11:30:00 AM	2.5121	2.5135			N/A
5/29/2019	NZDPLN	1:30:00 PM	2.5118	2.5128			N/A
5/29/2019	NZDPLN	3:30:00 PM	2.5132	2.5146			N/A
5/29/2019	NZDSEK	9:30:00 AM	6.2678	6.2747			N/A
5/29/2019	NZDSEK	11:30:00 AM	6.2581	6.2649			N/A
5/29/2019	NZDSEK	1:30:00 PM	6.2475	6.2519			N/A
5/29/2019	NZDSEK	3:30:00 PM	6.2533	6.2601			N/A
5/29/2019	NZDSGD	9:30:00 AM	0.9036	0.9041			N/A
5/29/2019	NZDSGD	11:30:00 AM	0.9015	0.9022			N/A
5/29/2019	NZDSGD	1:30:00 PM	0.9008	0.901			N/A
5/29/2019	NZDSGD	3:30:00 PM	0.9008	0.9014			N/A
5/29/2019	NZDSGD.fx	9:30:00 AM	0.90358	0.90401			N/A
5/29/2019	NZDSGD.fx	11:30:00 AM	0.90148	0.90207			N/A
5/29/2019	NZDSGD.fx	1:30:00 PM	0.90078	0.90098			N/A
5/29/2019	NZDSGD.fx	3:30:00 PM	0.90078	0.90128			N/A

5/29/2019	NZDUSD	9:30:00 AM	0.65388	0.65399			N/A
5/29/2019	NZDUSD	11:30:00 AM	0.65206	0.65215			N/A
5/29/2019	NZDUSD	1:30:00 PM	0.65186	0.65174			N/A
5/29/2019	NZDUSD	3:30:00 PM	0.65208	0.65213			N/A
5/29/2019	NZDUSD.fx	9:30:00 AM	0.65395	0.654			N/A
5/29/2019	NZDUSD.fx	11:30:00 AM	0.65213	0.65217			N/A
5/29/2019	NZDUSD.fx	1:30:00 PM	0.65193	0.65174			N/A
5/29/2019	NZDUSD.fx	3:30:00 PM	0.65215	0.65214			N/A
5/29/2019	NZDZAR	9:30:00 AM	9.6813	9.6915			N/A
5/29/2019	NZDZAR	11:30:00 AM	9.6863	9.7022			N/A
5/29/2019	NZDZAR	1:30:00 PM	9.6292	9.6409			N/A
5/29/2019	NZDZAR	3:30:00 PM	9.6287	9.6384			N/A
5/29/2019	SEKJPY	9:30:00 AM	11.38	11.39			N/A
5/29/2019	SEKJPY	11:30:00 AM	11.37	11.38			N/A
5/29/2019	SEKJPY	1:30:00 PM	11.4	11.41			N/A
5/29/2019	SEKJPY	3:30:00 PM	11.39	11.4			N/A
5/29/2019	SEKJPY.fx	9:30:00 AM	11.372	11.391			N/A
5/29/2019	SEKJPY.fx	11:30:00 AM	11.364	11.381			N/A
5/29/2019	SEKJPY.fx	1:30:00 PM	11.388	11.405			N/A
5/29/2019	SEKJPY.fx	3:30:00 PM	11.377	11.395			N/A
5/29/2019	SGDJPY	9:30:00 AM	79	79.02			N/A
5/29/2019	SGDJPY	11:30:00 AM	78.99	79.01			N/A
5/29/2019	SGDJPY	1:30:00 PM	79.09	79.12			N/A
5/29/2019	SGDJPY	3:30:00 PM	79.09	79.11			N/A
5/29/2019	SILVER	9:30:00 AM	14.21	14.59			N/A
5/29/2019	SILVER	11:30:00 AM	14.22	14.59			N/A
5/29/2019	SILVER	1:30:00 PM	14.18	14.56			N/A
5/29/2019	SILVER	3:30:00 PM	14.2	14.57			N/A
5/29/2019	SPX500.i	9:30:00 AM	2789.16	2789.44			N/A
5/29/2019	SPX500.i	11:30:00 AM	2789.14	2787.94			N/A
5/29/2019	SPX500.i	1:30:00 PM	2788.14	2788.74			N/A
5/29/2019	SPX500.i	3:30:00 PM	2785.14	2785.94			N/A
5/29/2019	UK100.i	9:30:00 AM	7225.06	7225.06			N/A
5/29/2019	UK100.i	11:30:00 AM	7189.31	7187.31			N/A

5/29/2019	UK100.i	1:30:00 PM	7176.31	7176.81			N/A
5/29/2019	UK100.i	3:30:00 PM	7156.56	7155.56			N/A
5/29/2019	USDCAD	9:30:00 AM	1.3495	1.34958			N/A
5/29/2019	USDCAD	11:30:00 AM	1.35091	1.35085			N/A
5/29/2019	USDCAD	1:30:00 PM	1.35077	1.35087			N/A
5/29/2019	USDCAD	3:30:00 PM	1.34939	1.34948			N/A
5/29/2019	USDCAD.fx	9:30:00 AM	1.34957	1.34955			N/A
5/29/2019	USDCAD.fx	11:30:00 AM	1.35094	1.35081			N/A
5/29/2019	USDCAD.fx	1:30:00 PM	1.3508	1.35083			N/A
5/29/2019	USDCAD.fx	3:30:00 PM	1.34943	1.34943			N/A
5/29/2019	USDCHF	9:30:00 AM	1.00606	1.00615			N/A
5/29/2019	USDCHF	11:30:00 AM	1.00552	1.0056			N/A
5/29/2019	USDCHF	1:30:00 PM	1.00595	1.00611			N/A
5/29/2019	USDCHF	3:30:00 PM	1.00556	1.0056			N/A
5/29/2019	USDCHF.fx	9:30:00 AM	1.0061	1.00609			N/A
5/29/2019	USDCHF.fx	11:30:00 AM	1.00558	1.00553			N/A
5/29/2019	USDCHF.fx	1:30:00 PM	1.006	1.00604			N/A
5/29/2019	USDCHF.fx	3:30:00 PM	1.00562	1.00553			N/A
5/29/2019	USDCZK	9:30:00 AM	23.152	23.175			N/A
5/29/2019	USDCZK	11:30:00 AM	23.161	23.183			N/A
5/29/2019	USDCZK	1:30:00 PM	23.181	23.204			N/A
5/29/2019	USDCZK	3:30:00 PM	23.183	23.204			N/A
5/29/2019	USDCZK.fx	9:30:00 AM	23.1597	23.167			N/A
5/29/2019	USDCZK.fx	11:30:00 AM	23.169	23.174			N/A
5/29/2019	USDCZK.fx	1:30:00 PM	23.189	23.1951			N/A
5/29/2019	USDCZK.fx	3:30:00 PM	23.1916	23.1947			N/A
5/29/2019	USDDKK	9:30:00 AM	6.6884	6.6924			N/A
5/29/2019	USDDKK	11:30:00 AM	6.6905	6.6942			N/A
5/29/2019	USDDKK	1:30:00 PM	6.6923	6.6964			N/A
5/29/2019	USDDKK	3:30:00 PM	6.6938	6.6976			N/A
5/29/2019	USDDKK.fx	9:30:00 AM	6.68901	6.69039			N/A
5/29/2019	USDDKK.fx	11:30:00 AM	6.69103	6.69204			N/A
5/29/2019	USDDKK.fx	1:30:00 PM	6.69287	6.69433			N/A
5/29/2019	USDDKK.fx	3:30:00 PM	6.69449	6.69555			N/A

5/29/2019	USDHKD	9:30:00 AM					N/A
5/29/2019	USDHKD	11:30:00 AM	7.8492	7.8495			N/A
5/29/2019	USDHKD	1:30:00 PM	7.8494	7.8496			N/A
5/29/2019	USDHKD	3:30:00 PM	7.8492	7.8495			N/A
5/29/2019	USDHKD.fx	9:30:00 AM	7.84918	7.84973			N/A
5/29/2019	USDHKD.fx	11:30:00 AM	7.84911	7.84965			N/A
5/29/2019	USDHKD.fx	1:30:00 PM					N/A
5/29/2019	USDHKD.fx	3:30:00 PM	7.84913	7.8497			N/A
5/29/2019	USDHUF	9:30:00 AM	293.09	293.56			N/A
5/29/2019	USDHUF	11:30:00 AM	293.18	293.6			N/A
5/29/2019	USDHUF	1:30:00 PM	292.76	293.24			N/A
5/29/2019	USDHUF	3:30:00 PM	292.39	292.85			N/A
5/29/2019	USDHUF.fx	9:30:00 AM	293.278	293.365			N/A
5/29/2019	USDHUF.fx	11:30:00 AM	293.371	293.403			N/A
5/29/2019	USDHUF.fx	1:30:00 PM	292.963	293.052			N/A
5/29/2019	USDHUF.fx	3:30:00 PM	292.583	292.648			N/A
5/29/2019	USDINR	9:30:00 AM	64.88	74.86			N/A
5/29/2019	USDINR	11:30:00 AM	64.93	74.92			N/A
5/29/2019	USDINR	1:30:00 PM					N/A
5/29/2019	USDINR	3:30:00 PM					N/A
5/29/2019	USDJPY	9:30:00 AM	109.215	109.215			N/A
5/29/2019	USDJPY	11:30:00 AM	109.273	109.256			N/A
5/29/2019	USDJPY	1:30:00 PM	109.346	109.341		100	N/A
5/29/2019	USDJPY	3:30:00 PM	109.31	109.312			N/A
5/29/2019	USDJPY.fx	9:30:00 AM	109.221	109.208			N/A
5/29/2019	USDJPY.fx	11:30:00 AM	109.278	109.249			N/A
5/29/2019	USDJPY.fx	1:30:00 PM	109.353	109.333			N/A
5/29/2019	USDJPY.fx	3:30:00 PM	109.316	109.305			N/A
5/29/2019	USDMXN	9:30:00 AM	19.212	19.214			N/A
5/29/2019	USDMXN	11:30:00 AM	19.253	19.255			N/A
5/29/2019	USDMXN	1:30:00 PM	19.222	19.231			N/A
5/29/2019	USDMXN	3:30:00 PM	19.221	19.213			N/A
5/29/2019	USDMXN.f	9:30:00 AM	19.2156	19.2112			N/A
5/29/2019	USDMXN.f	11:30:00 AM	19.2563	19.2515			N/A

5/29/2019	USDMXN.f	1:30:00 PM	19.2261	19.2278			N/A
5/29/2019	USDMXN.f	3:30:00 PM	19.2251	19.2088			N/A
5/29/2019	USDNOK	9:30:00 AM	8.7223	8.7305			N/A
5/29/2019	USDNOK	11:30:00 AM	8.738	8.7456			N/A
5/29/2019	USDNOK	1:30:00 PM	8.7449	8.7529			N/A
5/29/2019	USDNOK	3:30:00 PM	8.7562	8.7641			N/A
5/29/2019	USDNOK.fx	9:30:00 AM	8.72646	8.72599			N/A
5/29/2019	USDNOK.fx	11:30:00 AM	8.74187	8.74114			N/A
5/29/2019	USDNOK.fx	1:30:00 PM	8.749	8.74804			N/A
5/29/2019	USDNOK.fx	3:30:00 PM	8.76032	8.75966			N/A
5/29/2019	USDPLN	9:30:00 AM	3.851	3.8521			N/A
5/29/2019	USDPLN	11:30:00 AM	3.8537	3.8553			N/A
5/29/2019	USDPLN	1:30:00 PM	3.8552	3.857			N/A
5/29/2019	USDPLN	3:30:00 PM	3.8557	3.8572			N/A
5/29/2019	USDPLN.fx	9:30:00 AM	3.85028	3.85294			N/A
5/29/2019	USDPLN.fx	11:30:00 AM	3.8529	3.85601			N/A
5/29/2019	USDPLN.fx	1:30:00 PM	3.85447	3.85771			N/A
5/29/2019	USDPLN.fx	3:30:00 PM	3.85498	3.85794			N/A
5/29/2019	USDRUB	9:30:00 AM					N/A
5/29/2019	USDRUB	11:30:00 AM	64.757	65.153			N/A
5/29/2019	USDRUB	1:30:00 PM	64.934	65.318			N/A
5/29/2019	USDRUB	3:30:00 PM	65.033	65.427			N/A
5/29/2019	USDSEK	9:30:00 AM	9.5905	9.5951			N/A
5/29/2019	USDSEK	11:30:00 AM	9.6031	9.6068			N/A
5/29/2019	USDSEK	1:30:00 PM	9.5896	9.5941			N/A
5/29/2019	USDSEK	3:30:00 PM	9.5956	9.5991			N/A
5/29/2019	USDSEK.fx	9:30:00 AM	9.59297	9.59319			N/A
5/29/2019	USDSEK.fx	11:30:00 AM	9.60574	9.60496			N/A
5/29/2019	USDSEK.fx	1:30:00 PM	9.59233	9.59207			N/A
5/29/2019	USDSEK.fx	3:30:00 PM	9.59825	9.59719			N/A
5/29/2019	USDSGD	9:30:00 AM	1.382	1.3821			N/A
5/29/2019	USDSGD	11:30:00 AM	1.3827	1.383			N/A
5/29/2019	USDSGD	1:30:00 PM	1.3819	1.382			N/A
5/29/2019	USDSGD	3:30:00 PM	1.3815	1.3818			N/A

5/29/2019	USDSGD.fx	9:30:00 AM	1.38192	1.38209			N/A
5/29/2019	USDSGD.fx	11:30:00 AM	1.38258	1.383			N/A
5/29/2019	USDSGD.fx	1:30:00 PM	1.38177	1.38228			N/A
5/29/2019	USDSGD.fx	3:30:00 PM	1.3814	1.38186			N/A
5/29/2019	USDZAR	9:30:00 AM	14.8139	14.8239			N/A
5/29/2019	USDZAR	11:30:00 AM	14.8653	14.882			N/A
5/29/2019	USDZAR	1:30:00 PM	14.7815	14.7971			N/A
5/29/2019	USDZAR	3:30:00 PM	14.7778	14.7825			N/A
5/29/2019	USDZAR.fx	9:30:00 AM	14.81938	14.81764			N/A
5/29/2019	USDZAR.fx	11:30:00 AM	14.87147	14.87672			N/A
5/29/2019	USDZAR.fx	1:30:00 PM	14.78806	14.7912			N/A
5/29/2019	USDZAR.fx	3:30:00 PM	14.78298	14.77682			N/A
5/29/2019	XAUUSD	9:30:00 AM	1283.19	1283.39			N/A
5/29/2019	XAUUSD	11:30:00 AM	1284.81	1285.07			N/A
5/29/2019	XAUUSD	1:30:00 PM	1283.45	1283.66			N/A
5/29/2019	XAUUSD	3:30:00 PM	1283.98	1283.84			N/A
5/29/2019	ZARJPY	9:30:00 AM	7.35	7.37			N/A
5/29/2019	ZARJPY	11:30:00 AM	7.33	7.35			N/A
5/29/2019	ZARJPY	1:30:00 PM	7.38	7.39			N/A
5/29/2019	ZARJPY	3:30:00 PM	7.38	7.4			N/A
5/29/2019	ZARJPY.fx	9:30:00 AM	7.37	7.37			N/A
5/29/2019	ZARJPY.fx	11:30:00 AM	7.345	7.347			N/A
5/29/2019	ZARJPY.fx	1:30:00 PM	7.392	7.395			N/A
5/29/2019	ZARJPY.fx	3:30:00 PM	7.396	7.394			N/A
5/30/2019	#AA	9:30:00 AM					N/A
5/30/2019	#AA	11:30:00 AM					N/A
5/30/2019	#AA	1:30:00 PM					N/A
5/30/2019	#AA	3:30:00 PM					N/A
5/30/2019	#AABA	9:30:00 AM					N/A
5/30/2019	#AABA	11:30:00 AM					N/A
5/30/2019	#AABA	1:30:00 PM					N/A
5/30/2019	#AABA	3:30:00 PM					N/A
5/30/2019	#AAL	9:30:00 AM					N/A
5/30/2019	#AAL	11:30:00 AM					N/A

5/30/2019	#AAL	1:30:00 PM					N/A
5/30/2019	#AAL	3:30:00 PM					N/A
5/30/2019	#AAPL	9:30:00 AM					N/A
5/30/2019	#AAPL	11:30:00 AM					N/A
5/30/2019	#AAPL	1:30:00 PM					N/A
5/30/2019	#AAPL	3:30:00 PM					N/A
5/30/2019	#ADBE	9:30:00 AM					N/A
5/30/2019	#ADBE	11:30:00 AM					N/A
5/30/2019	#ADBE	1:30:00 PM					N/A
5/30/2019	#ADBE	3:30:00 PM					N/A
5/30/2019	#AIG	9:30:00 AM					N/A
5/30/2019	#AIG	11:30:00 AM					N/A
5/30/2019	#AIG	1:30:00 PM					N/A
5/30/2019	#AIG	3:30:00 PM					N/A
5/30/2019	#AMD	9:30:00 AM					N/A
5/30/2019	#AMD	11:30:00 AM					N/A
5/30/2019	#AMD	1:30:00 PM					N/A
5/30/2019	#AMD	3:30:00 PM					N/A
5/30/2019	#AMZN	9:30:00 AM					N/A
5/30/2019	#AMZN	11:30:00 AM					N/A
5/30/2019	#AMZN	1:30:00 PM					N/A
5/30/2019	#AMZN	3:30:00 PM					N/A
5/30/2019	#AXP	9:30:00 AM					N/A
5/30/2019	#AXP	11:30:00 AM					N/A
5/30/2019	#AXP	1:30:00 PM					N/A
5/30/2019	#AXP	3:30:00 PM					N/A
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5/30/2019	#BA	11:30:00 AM					N/A
5/30/2019	#BA	1:30:00 PM					N/A
5/30/2019	#BA	3:30:00 PM					N/A
5/30/2019	#BABA	9:30:00 AM					N/A
5/30/2019	#BABA	11:30:00 AM					N/A
5/30/2019	#BABA	1:30:00 PM					N/A
5/30/2019	#BABA	3:30:00 PM					N/A

5/30/2019	#BAC	9:30:00 AM					N/A
5/30/2019	#BAC	11:30:00 AM					N/A
5/30/2019	#BAC	1:30:00 PM					N/A
5/30/2019	#BAC	3:30:00 PM					N/A
5/30/2019	#BARC	9:30:00 AM					N/A
5/30/2019	#BARC	11:30:00 AM					N/A
5/30/2019	#BARC	1:30:00 PM					N/A
5/30/2019	#BARC	3:30:00 PM					N/A
5/30/2019	#BHP	9:30:00 AM					N/A
5/30/2019	#BHP	11:30:00 AM					N/A
5/30/2019	#BHP	1:30:00 PM					N/A
5/30/2019	#BHP	3:30:00 PM					N/A
5/30/2019	#BIDU	9:30:00 AM					N/A
5/30/2019	#BIDU	11:30:00 AM					N/A
5/30/2019	#BIDU	1:30:00 PM					N/A
5/30/2019	#BIDU	3:30:00 PM					N/A
5/30/2019	#Bitcoin	9:30:00 AM	8740.7	8775.2			N/A
5/30/2019	#Bitcoin	11:30:00 AM	8684.4	8716.9			N/A
5/30/2019	#Bitcoin	1:30:00 PM	8773.45	8798.45			N/A
5/30/2019	#Bitcoin	3:30:00 PM	8735.6	8765.9			N/A
5/30/2019	#BK	9:30:00 AM					N/A
5/30/2019	#BK	11:30:00 AM					N/A
5/30/2019	#BK	1:30:00 PM					N/A
5/30/2019	#BK	3:30:00 PM					N/A
5/30/2019	#BLT	9:30:00 AM					N/A
5/30/2019	#BLT	11:30:00 AM					N/A
5/30/2019	#BLT	1:30:00 PM					N/A
5/30/2019	#BLT	3:30:00 PM					N/A
5/30/2019	#BP	9:30:00 AM					N/A
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5/30/2019	#WDC	1:30:00 PM					N/A
5/30/2019	#WDC	3:30:00 PM					N/A
5/30/2019	#WFC	9:30:00 AM					N/A
5/30/2019	#WFC	11:30:00 AM					N/A
5/30/2019	#WFC	1:30:00 PM					N/A
5/30/2019	#WFC	3:30:00 PM					N/A
5/30/2019	#WMT	9:30:00 AM					N/A
5/30/2019	#WMT	11:30:00 AM					N/A
5/30/2019	#WMT	1:30:00 PM					N/A
5/30/2019	#WMT	3:30:00 PM					N/A
5/30/2019	#XOM	9:30:00 AM					N/A
5/30/2019	#XOM	11:30:00 AM					N/A
5/30/2019	#XOM	1:30:00 PM					N/A
5/30/2019	#XOM	3:30:00 PM					N/A
5/30/2019	#YHOO	9:30:00 AM					N/A
5/30/2019	#YHOO	11:30:00 AM					N/A
5/30/2019	#YHOO	1:30:00 PM					N/A
5/30/2019	#YHOO	3:30:00 PM					N/A
5/30/2019	#ZNGA	9:30:00 AM					N/A
5/30/2019	#ZNGA	11:30:00 AM					N/A
5/30/2019	#ZNGA	1:30:00 PM					N/A
5/30/2019	#ZNGA	3:30:00 PM					N/A
5/30/2019	AUDCAD	9:30:00 AM	0.93594	0.93666			N/A
5/30/2019	AUDCAD	11:30:00 AM	0.93572	0.93637			N/A
5/30/2019	AUDCAD	1:30:00 PM	0.93438	0.93506			N/A
5/30/2019	AUDCAD	3:30:00 PM	0.93362	0.9338			N/A
5/30/2019	AUDCAD.fx	9:30:00 AM	0.93628	0.93631			N/A
5/30/2019	AUDCAD.fx	11:30:00 AM	0.93604	0.93601			N/A
5/30/2019	AUDCAD.fx	1:30:00 PM	0.9347	0.93471			N/A
5/30/2019	AUDCAD.fx	3:30:00 PM	0.93396	0.9335			N/A

5/30/2019	AUDCHF	9:30:00 AM	0.69803	0.69872			N/A
5/30/2019	AUDCHF	11:30:00 AM	0.69915	0.69977			N/A
5/30/2019	AUDCHF	1:30:00 PM	0.69912	0.69982			N/A
5/30/2019	AUDCHF	3:30:00 PM	0.6972	0.69777			N/A
5/30/2019	AUDCHF.fx	9:30:00 AM	0.69837	0.69837			N/A
5/30/2019	AUDCHF.fx	11:30:00 AM	0.6995	0.69942			N/A
5/30/2019	AUDCHF.fx	1:30:00 PM	0.69946	0.69947			N/A
5/30/2019	AUDCHF.fx	3:30:00 PM	0.69753	0.69744			N/A
5/30/2019	AUDCZK	9:30:00 AM	16.074	16.092			N/A
5/30/2019	AUDCZK	11:30:00 AM	16.068	16.086			N/A
5/30/2019	AUDCZK	1:30:00 PM	16.052	16.066			N/A
5/30/2019	AUDCZK	3:30:00 PM	16.032	16.043			N/A
5/30/2019	AUDDKK	9:30:00 AM	4.6469	4.6518			N/A
5/30/2019	AUDDKK	11:30:00 AM	4.6472	4.6518			N/A
5/30/2019	AUDDKK	1:30:00 PM	4.6441	4.6478			N/A
5/30/2019	AUDDKK	3:30:00 PM	4.6381	4.6413			N/A
5/30/2019	AUDHKD	9:30:00 AM	5.4362	5.4402			N/A
5/30/2019	AUDHKD	11:30:00 AM	5.4379	5.4415			N/A
5/30/2019	AUDHKD	1:30:00 PM	5.435	5.4385			N/A
5/30/2019	AUDHKD	3:30:00 PM	5.4283	5.4291			N/A
5/30/2019	AUDHUF	9:30:00 AM	202.63	202.87			N/A
5/30/2019	AUDHUF	11:30:00 AM	202.41	202.61			N/A
5/30/2019	AUDHUF	1:30:00 PM	201.88	202.11			N/A
5/30/2019	AUDHUF	3:30:00 PM	201.56	201.65			N/A
5/30/2019	AUDJPY	9:30:00 AM	75.998	76.063			N/A
5/30/2019	AUDJPY	11:30:00 AM	76.052	76.11			N/A
5/30/2019	AUDJPY	1:30:00 PM	76.001	76.065			N/A
5/30/2019	AUDJPY	3:30:00 PM	75.884	75.922			N/A
5/30/2019	AUDJPY.fx	9:30:00 AM	76.032	76.027			N/A
5/30/2019	AUDJPY.fx	11:30:00 AM	76.086	76.074			N/A
5/30/2019	AUDJPY.fx	1:30:00 PM	76.034	76.029			N/A
5/30/2019	AUDJPY.fx	3:30:00 PM	75.916	75.895			N/A
5/30/2019	AUDMXN	9:30:00 AM	13.2557	13.2653			N/A
5/30/2019	AUDMXN	11:30:00 AM	13.2616	13.2715			N/A

5/30/2019	AUDMXN	1:30:00 PM	13.2373	13.2472			N/A
5/30/2019	AUDMXN	3:30:00 PM	13.2408	13.2439			N/A
5/30/2019	AUDNOK	9:30:00 AM	6.0593	6.0645			N/A
5/30/2019	AUDNOK	11:30:00 AM	6.0688	6.0739			N/A
5/30/2019	AUDNOK	1:30:00 PM	6.0644	6.0695			N/A
5/30/2019	AUDNOK	3:30:00 PM	6.0632	6.0665			N/A
5/30/2019	AUDNOK.fx	9:30:00 AM	6.0607	6.0629			N/A
5/30/2019	AUDNOK.fx	11:30:00 AM	6.0704	6.0722			N/A
5/30/2019	AUDNOK.fx	1:30:00 PM	6.066	6.0676			N/A
5/30/2019	AUDNOK.fx	3:30:00 PM	6.0646	6.0651			N/A
5/30/2019	AUDNZD	9:30:00 AM	1.06213	1.06302			N/A
5/30/2019	AUDNZD	11:30:00 AM	1.06205	1.06292			N/A
5/30/2019	AUDNZD	1:30:00 PM	1.06187	1.06273			N/A
5/30/2019	AUDNZD	3:30:00 PM	1.06182	1.06229			N/A
5/30/2019	AUDNZD.fx	9:30:00 AM	1.06257	1.06257			N/A
5/30/2019	AUDNZD.fx	11:30:00 AM	1.06249	1.06248			N/A
5/30/2019	AUDNZD.fx	1:30:00 PM	1.06232	1.06227			N/A
5/30/2019	AUDNZD.fx	3:30:00 PM	1.06226	1.06212			N/A
5/30/2019	AUDPLN	9:30:00 AM	2.6708	2.6741			N/A
5/30/2019	AUDPLN	11:30:00 AM	2.6702	2.6734			N/A
5/30/2019	AUDPLN	1:30:00 PM	2.6664	2.6696			N/A
5/30/2019	AUDPLN	3:30:00 PM	2.663	2.6654			N/A
5/30/2019	AUDSEK	9:30:00 AM	6.6189	6.6221			N/A
5/30/2019	AUDSEK	11:30:00 AM	6.6214	6.6246			N/A
5/30/2019	AUDSEK	1:30:00 PM	6.612	6.6146			N/A
5/30/2019	AUDSEK	3:30:00 PM	6.6022	6.6033			N/A
5/30/2019	AUDSEK.fx	9:30:00 AM	6.6142	6.6266			N/A
5/30/2019	AUDSEK.fx	11:30:00 AM	6.6168	6.6291			N/A
5/30/2019	AUDSEK.fx	1:30:00 PM	6.6073	6.6189			N/A
5/30/2019	AUDSEK.fx	3:30:00 PM	6.5978	6.6083			N/A
5/30/2019	AUDSGD	9:30:00 AM	0.9557	0.956			N/A
5/30/2019	AUDSGD	11:30:00 AM	0.9561	0.9564			N/A
5/30/2019	AUDSGD	1:30:00 PM	0.9558	0.9561			N/A
5/30/2019	AUDSGD	3:30:00 PM	0.9546	0.9545			N/A

5/30/2019	AUDSGD.fx	9:30:00 AM	0.95575	0.95587			N/A
5/30/2019	AUDSGD.fx	11:30:00 AM	0.9562	0.95629			N/A
5/30/2019	AUDSGD.fx	1:30:00 PM	0.95591	0.95597			N/A
5/30/2019	AUDSGD.fx	3:30:00 PM	0.95469	0.9544			N/A
5/30/2019	AUDUSD	9:30:00 AM	0.69296	0.69308			N/A
5/30/2019	AUDUSD	11:30:00 AM	0.69325	0.69336			N/A
5/30/2019	AUDUSD	1:30:00 PM	0.69291	0.69299			N/A
5/30/2019	AUDUSD	3:30:00 PM	0.69211	0.69183			N/A
5/30/2019	AUDUSD.fx	9:30:00 AM	0.69301	0.69302			N/A
5/30/2019	AUDUSD.fx	11:30:00 AM	0.6933	0.6933			N/A
5/30/2019	AUDUSD.fx	1:30:00 PM	0.69297	0.69293			N/A
5/30/2019	AUDUSD.fx	3:30:00 PM	0.69215	0.6918			N/A
5/30/2019	AUDZAR	9:30:00 AM	10.1488	10.1635			N/A
5/30/2019	AUDZAR	11:30:00 AM	10.1319	10.1429			N/A
5/30/2019	AUDZAR	1:30:00 PM	10.1129	10.1272			N/A
5/30/2019	AUDZAR	3:30:00 PM	10.1091	10.1129			N/A
5/30/2019	AUS200.i	9:30:00 AM					N/A
5/30/2019	AUS200.i	11:30:00 AM	6395.28	6398.58			N/A
5/30/2019	AUS200.i	1:30:00 PM	6394.28	6397.08			N/A
5/30/2019	AUS200.i	3:30:00 PM	6394.48	6396.78			N/A
5/30/2019	BCHUSD	9:30:00 AM	482.24	484.22			N/A
5/30/2019	BCHUSD	11:30:00 AM	477.32	478.08			N/A
5/30/2019	BCHUSD	1:30:00 PM	482.51	484.21			N/A
5/30/2019	BCHUSD	3:30:00 PM	479.42	481.37			N/A
5/30/2019	CADCHF	9:30:00 AM	0.74551	0.74622			N/A
5/30/2019	CADCHF	11:30:00 AM	0.74697	0.74755			N/A
5/30/2019	CADCHF	1:30:00 PM	0.74795	0.74864			N/A
5/30/2019	CADCHF	3:30:00 PM	0.74679	0.74721			N/A
5/30/2019	CADCHF.fx	9:30:00 AM	0.74586	0.74587			N/A
5/30/2019	CADCHF.fx	11:30:00 AM	0.74731	0.74719			N/A
5/30/2019	CADCHF.fx	1:30:00 PM	0.7483	0.74828			N/A
5/30/2019	CADCHF.fx	3:30:00 PM	0.7471	0.74686			N/A
5/30/2019	CADCZK	9:30:00 AM	17.17	17.188			N/A
5/30/2019	CADCZK	11:30:00 AM	17.17	17.186			N/A

5/30/2019	CADCZK	1:30:00 PM	17.176	17.189			N/A
5/30/2019	CADCZK	3:30:00 PM	17.174	17.186			N/A
5/30/2019	CADDKK	9:30:00 AM					N/A
5/30/2019	CADDKK	11:30:00 AM					N/A
5/30/2019	CADDKK	1:30:00 PM	4.969	4.972			N/A
5/30/2019	CADDKK	3:30:00 PM					N/A
5/30/2019	CADHKD	9:30:00 AM	5.8072	5.8111			N/A
5/30/2019	CADHKD	11:30:00 AM	5.8105	5.8139			N/A
5/30/2019	CADHKD	1:30:00 PM	5.8154	5.8188			N/A
5/30/2019	CADHKD	3:30:00 PM	5.8135	5.8161			N/A
5/30/2019	CADHUF	9:30:00 AM	216.49	216.65			N/A
5/30/2019	CADHUF	11:30:00 AM	216.31	216.44			N/A
5/30/2019	CADHUF	1:30:00 PM	216.06	216.18			N/A
5/30/2019	CADHUF	3:30:00 PM	215.88	215.97			N/A
5/30/2019	CADJPY	9:30:00 AM	81.167	81.234			N/A
5/30/2019	CADJPY	11:30:00 AM	81.255	81.305			N/A
5/30/2019	CADJPY	1:30:00 PM	81.308	81.374			N/A
5/30/2019	CADJPY	3:30:00 PM	81.271	81.32			N/A
5/30/2019	CADJPY.fx	9:30:00 AM	81.201	81.199			N/A
5/30/2019	CADJPY.fx	11:30:00 AM	81.288	81.27			N/A
5/30/2019	CADJPY.fx	1:30:00 PM	81.341	81.339			N/A
5/30/2019	CADJPY.fx	3:30:00 PM	81.302	81.287			N/A
5/30/2019	CADMXN	9:30:00 AM	14.158	14.1708			N/A
5/30/2019	CADMXN	11:30:00 AM	14.1697	14.1793			N/A
5/30/2019	CADMXN	1:30:00 PM	14.1637	14.1747			N/A
5/30/2019	CADMXN	3:30:00 PM	14.1822	14.1834			N/A
5/30/2019	CADNOK	9:30:00 AM	6.4708	6.4754			N/A
5/30/2019	CADNOK	11:30:00 AM	6.4822	6.4859			N/A
5/30/2019	CADNOK	1:30:00 PM	6.4865	6.4908			N/A
5/30/2019	CADNOK	3:30:00 PM	6.4902	6.4936			N/A
5/30/2019	CADPLN	9:30:00 AM	2.8533	2.8552			N/A
5/30/2019	CADPLN	11:30:00 AM	2.8528	2.8547			N/A
5/30/2019	CADPLN	1:30:00 PM	2.8529	2.8545			N/A
5/30/2019	CADPLN	3:30:00 PM	2.8509	2.8528			N/A

5/30/2019	CADSEK	9:30:00 AM	7.0677	7.0715			N/A
5/30/2019	CADSEK	11:30:00 AM	7.0721	7.0754			N/A
5/30/2019	CADSEK	1:30:00 PM	7.0719	7.0747			N/A
5/30/2019	CADSEK	3:30:00 PM	7.0686	7.0714			N/A
5/30/2019	CADSGD	9:30:00 AM	1.0203	1.0206			N/A
5/30/2019	CADSGD	11:30:00 AM	1.0209	1.0212			N/A
5/30/2019	CADSGD	1:30:00 PM	1.0219	1.0222			N/A
5/30/2019	CADSGD	3:30:00 PM	1.0214	1.0218			N/A
5/30/2019	CADZAR	9:30:00 AM	10.8397	10.8571			N/A
5/30/2019	CADZAR	11:30:00 AM	10.8256	10.8383			N/A
5/30/2019	CADZAR	1:30:00 PM	10.8201	10.8358			N/A
5/30/2019	CADZAR	3:30:00 PM	10.8307	10.8321			N/A
5/30/2019	CHFCZK	9:30:00 AM					N/A
5/30/2019	CHFCZK	11:30:00 AM	22.982	22.996			N/A
5/30/2019	CHFCZK	1:30:00 PM	22.957	22.971			N/A
5/30/2019	CHFCZK	3:30:00 PM	22.995	23.008			N/A
5/30/2019	CHFDKK	9:30:00 AM	6.656	6.66			N/A
5/30/2019	CHFDKK	11:30:00 AM	6.646	6.649			N/A
5/30/2019	CHFDKK	1:30:00 PM	6.642	6.644			N/A
5/30/2019	CHFDKK	3:30:00 PM	6.651	6.654			N/A
5/30/2019	CHFDKK.fx	9:30:00 AM	6.6548	6.6609			N/A
5/30/2019	CHFDKK.fx	11:30:00 AM	6.6448	6.6505			N/A
5/30/2019	CHFDKK.fx	1:30:00 PM	6.6401	6.6456			N/A
5/30/2019	CHFDKK.fx	3:30:00 PM	6.6497	6.655			N/A
5/30/2019	CHFHKD	9:30:00 AM	7.7867	7.7903			N/A
5/30/2019	CHFHKD	11:30:00 AM	7.7778	7.7812			N/A
5/30/2019	CHFHKD	1:30:00 PM	7.7728	7.7766			N/A
5/30/2019	CHFHKD	3:30:00 PM	7.7854	7.7855			N/A
5/30/2019	CHFHUF	9:30:00 AM	290.18	290.58			N/A
5/30/2019	CHFHUF	11:30:00 AM	289.39	289.76			N/A
5/30/2019	CHFHUF	1:30:00 PM	288.66	289.01			N/A
5/30/2019	CHFHUF	3:30:00 PM	289.01	289.24			N/A
5/30/2019	CHFJPY	9:30:00 AM	108.83	108.9			N/A
5/30/2019	CHFJPY	11:30:00 AM	108.736	108.808			N/A

5/30/2019	CHFJPY	1:30:00 PM	108.667	108.734			N/A
5/30/2019	CHFJPY	3:30:00 PM	108.8	108.844			N/A
5/30/2019	CHFJPY.fx	9:30:00 AM	108.863	108.865			N/A
5/30/2019	CHFJPY.fx	11:30:00 AM	108.769	108.773			N/A
5/30/2019	CHFJPY.fx	1:30:00 PM	108.7	108.699			N/A
5/30/2019	CHFJPY.fx	3:30:00 PM	108.832	108.826			N/A
5/30/2019	CHFMXN	9:30:00 AM	18.9828	19.0001			N/A
5/30/2019	CHFMXN	11:30:00 AM	18.9626	18.9781			N/A
5/30/2019	CHFMXN	1:30:00 PM	18.9291	18.9453			N/A
5/30/2019	CHFMXN	3:30:00 PM	18.9859	18.9917			N/A
5/30/2019	CHFNOK	9:30:00 AM	8.6762	8.6838			N/A
5/30/2019	CHFNOK	11:30:00 AM	8.6761	8.6837			N/A
5/30/2019	CHFNOK	1:30:00 PM	8.6697	8.6774			N/A
5/30/2019	CHFNOK	3:30:00 PM	8.6919	8.6984			N/A
5/30/2019	CHFNOK.fx	9:30:00 AM	8.67952	8.68047			N/A
5/30/2019	CHFNOK.fx	11:30:00 AM	8.6796	8.6801			N/A
5/30/2019	CHFNOK.fx	1:30:00 PM	8.67326	8.67382			N/A
5/30/2019	CHFNOK.fx	3:30:00 PM	8.69507	8.69508			N/A
5/30/2019	CHFPLN	9:30:00 AM	3.8253	3.8283			N/A
5/30/2019	CHFPLN	11:30:00 AM	3.8183	3.8213			N/A
5/30/2019	CHFPLN	1:30:00 PM	3.813	3.8158			N/A
5/30/2019	CHFPLN	3:30:00 PM	3.8188	3.821			N/A
5/30/2019	CHFPLN.fx	9:30:00 AM	3.82286	3.83058			N/A
5/30/2019	CHFPLN.fx	11:30:00 AM	3.81586	3.82351			N/A
5/30/2019	CHFPLN.fx	1:30:00 PM	3.81064	3.81809			N/A
5/30/2019	CHFPLN.fx	3:30:00 PM	3.81564	3.82353			N/A
5/30/2019	CHFSEK	9:30:00 AM	9.4765	9.4809			N/A
5/30/2019	CHFSEK	11:30:00 AM	9.4655	9.4702			N/A
5/30/2019	CHFSEK	1:30:00 PM	9.4513	9.4552			N/A
5/30/2019	CHFSEK	3:30:00 PM	9.464	9.4649			N/A
5/30/2019	CHFSGD	9:30:00 AM	1.3684	1.3689			N/A
5/30/2019	CHFSGD	11:30:00 AM	1.3669	1.3673			N/A
5/30/2019	CHFSGD	1:30:00 PM	1.3665	1.3669			N/A
5/30/2019	CHFSGD	3:30:00 PM	1.3685	1.3686			N/A

5/30/2019	CHFSGD.fx	9:30:00 AM	1.36863	1.36867			N/A
5/30/2019	CHFSGD.fx	11:30:00 AM	1.36719	1.3671			N/A
5/30/2019	CHFSGD.fx	1:30:00 PM	1.36662	1.36671			N/A
5/30/2019	CHFSGD.fx	3:30:00 PM	1.36871	1.36849			N/A
5/30/2019	CHFZAR	9:30:00 AM	14.5382	14.553			N/A
5/30/2019	CHFZAR	11:30:00 AM	14.4936	14.501			N/A
5/30/2019	CHFZAR	1:30:00 PM	14.465	14.4788			N/A
5/30/2019	CHFZAR	3:30:00 PM	14.5027	14.5			N/A
5/30/2019	CZKJPY	9:30:00 AM					N/A
5/30/2019	CZKJPY	11:30:00 AM	4.731	4.734			N/A
5/30/2019	CZKJPY	1:30:00 PM					N/A
5/30/2019	CZKJPY	3:30:00 PM	4.731	4.734			N/A
5/30/2019	DAX30.i	9:30:00 AM	11882.17	11879.17			N/A
5/30/2019	DAX30.i	11:30:00 AM	11894.67	11891.92			N/A
5/30/2019	DAX30.i	1:30:00 PM	11899.92	11899.42			N/A
5/30/2019	DAX30.i	3:30:00 PM	11871.17	11864.67			N/A
5/30/2019	DJ30.i	9:30:00 AM					N/A
5/30/2019	DJ30.i	11:30:00 AM					N/A
5/30/2019	DJ30.i	1:30:00 PM					N/A
5/30/2019	DJ30.i	3:30:00 PM					N/A
5/30/2019	DKKJPY	9:30:00 AM					N/A
5/30/2019	DKKJPY	11:30:00 AM	16.37	16.39			N/A
5/30/2019	DKKJPY	1:30:00 PM	16.36	16.38			N/A
5/30/2019	DKKJPY	3:30:00 PM	16.37	16.38			N/A
5/30/2019	EURAUD	9:30:00 AM	1.60554	1.606			N/A
5/30/2019	EURAUD	11:30:00 AM	1.60551	1.60587			N/A
5/30/2019	EURAUD	1:30:00 PM	1.60669	1.60698			N/A
5/30/2019	EURAUD	3:30:00 PM	1.60915	1.60903			N/A
5/30/2019	EURAUD.fx	9:30:00 AM	1.60574	1.60576			N/A
5/30/2019	EURAUD.fx	11:30:00 AM	1.60572	1.60566			N/A
5/30/2019	EURAUD.fx	1:30:00 PM	1.6069	1.60674			N/A
5/30/2019	EURAUD.fx	3:30:00 PM	1.6093	1.60882			N/A
5/30/2019	EURCAD	9:30:00 AM	1.50361	1.50448			N/A
5/30/2019	EURCAD	11:30:00 AM	1.50318	1.50392			N/A

5/30/2019	EURCAD	1:30:00 PM	1.5022	1.50281			N/A
5/30/2019	EURCAD	3:30:00 PM	1.50272	1.50315			N/A
5/30/2019	EURCAD.fx	9:30:00 AM	1.50403	1.50407			N/A
5/30/2019	EURCAD.fx	11:30:00 AM	1.50361	1.5035			N/A
5/30/2019	EURCAD.fx	1:30:00 PM	1.50263	1.50238			N/A
5/30/2019	EURCAD.fx	3:30:00 PM	1.50313	1.50278			N/A
5/30/2019	EURCHF	9:30:00 AM	1.12177	1.12187			N/A
5/30/2019	EURCHF	11:30:00 AM	1.12353	1.12358			N/A
5/30/2019	EURCHF	1:30:00 PM	1.12434	1.12435			N/A
5/30/2019	EURCHF	3:30:00 PM	1.12274	1.12267			N/A
5/30/2019	EURCHF.fx	9:30:00 AM	1.12182	1.12181			N/A
5/30/2019	EURCHF.fx	11:30:00 AM	1.12359	1.12351			N/A
5/30/2019	EURCHF.fx	1:30:00 PM	1.1244	1.12429			N/A
5/30/2019	EURCHF.fx	3:30:00 PM	1.12276	1.12261			N/A
5/30/2019	EURCZK	9:30:00 AM	25.817	25.857			N/A
5/30/2019	EURCZK	11:30:00 AM	25.807	25.845			N/A
5/30/2019	EURCZK	1:30:00 PM	25.796	25.835			N/A
5/30/2019	EURCZK	3:30:00 PM	25.8	25.837			N/A
5/30/2019	EURDKK	9:30:00 AM	7.4672	7.4681			N/A
5/30/2019	EURDKK	11:30:00 AM	7.4677	7.4679			N/A
5/30/2019	EURDKK	1:30:00 PM	7.4662	7.4674			N/A
5/30/2019	EURDKK	3:30:00 PM					N/A
5/30/2019	EURGBP	9:30:00 AM	0.8813	0.88139			N/A
5/30/2019	EURGBP	11:30:00 AM	0.8812	0.88124			N/A
5/30/2019	EURGBP	1:30:00 PM	0.8823	0.88236			N/A
5/30/2019	EURGBP	3:30:00 PM	0.88199	0.88198			N/A
5/30/2019	EURGBP.fx	9:30:00 AM	0.88134	0.88134			N/A
5/30/2019	EURGBP.fx	11:30:00 AM	0.88125	0.88119			N/A
5/30/2019	EURGBP.fx	1:30:00 PM	0.88234	0.88231			N/A
5/30/2019	EURGBP.fx	3:30:00 PM	0.882	0.88202			N/A
5/30/2019	EURHKD	9:30:00 AM	8.7353	8.7406			N/A
5/30/2019	EURHKD	11:30:00 AM	8.738	8.7434			N/A
5/30/2019	EURHKD	1:30:00 PM	8.7393	8.7433			N/A
5/30/2019	EURHKD	3:30:00 PM	8.7406	8.7422			N/A

5/30/2019	EURHKD.fx	9:30:00 AM	8.73824	8.73773			N/A
5/30/2019	EURHKD.fx	11:30:00 AM	8.74083	8.74047			N/A
5/30/2019	EURHKD.fx	1:30:00 PM	8.74217	8.74039			N/A
5/30/2019	EURHKD.fx	3:30:00 PM	8.74339	8.73966			N/A
5/30/2019	EURHUF	9:30:00 AM	325.51	326.08			N/A
5/30/2019	EURHUF	11:30:00 AM	325.09	325.79			N/A
5/30/2019	EURHUF	1:30:00 PM	324.5	325.09			N/A
5/30/2019	EURHUF	3:30:00 PM	324.42	325.11			N/A
5/30/2019	EURHUF.fx	9:30:00 AM	325.768	325.97			N/A
5/30/2019	EURHUF.fx	11:30:00 AM	325.371	325.49			N/A
5/30/2019	EURHUF.fx	1:30:00 PM	324.761	324.938			N/A
5/30/2019	EURHUF.fx	3:30:00 PM	324.658	324.851			N/A
5/30/2019	EURJPY	9:30:00 AM	122.128	122.132			N/A
5/30/2019	EURJPY	11:30:00 AM	122.212	122.206			N/A
5/30/2019	EURJPY	1:30:00 PM	122.216	122.207			N/A
5/30/2019	EURJPY	3:30:00 PM	122.187	122.158			N/A
5/30/2019	EURJPY.fx	9:30:00 AM	122.13	122.128			N/A
5/30/2019	EURJPY.fx	11:30:00 AM	122.214	122.202			N/A
5/30/2019	EURJPY.fx	1:30:00 PM	122.218	122.203			N/A
5/30/2019	EURJPY.fx	3:30:00 PM	122.188	122.167			N/A
5/30/2019	EURMXN	9:30:00 AM	21.2976	21.3171			N/A
5/30/2019	EURMXN	11:30:00 AM	21.3084	21.3247			N/A
5/30/2019	EURMXN	1:30:00 PM	21.286	21.3034			N/A
5/30/2019	EURMXN	3:30:00 PM	21.3173	21.326			N/A
5/30/2019	EURMXN.fx	9:30:00 AM	21.3063	21.3088			N/A
5/30/2019	EURMXN.fx	11:30:00 AM	21.3171	21.3164			N/A
5/30/2019	EURMXN.fx	1:30:00 PM	21.2953	21.2942			N/A
5/30/2019	EURMXN.fx	3:30:00 PM	21.3263	21.3163			N/A
5/30/2019	EURNOK	9:30:00 AM	9.7315	9.7436			N/A
5/30/2019	EURNOK	11:30:00 AM	9.746	9.7581			N/A
5/30/2019	EURNOK	1:30:00 PM	9.7457	9.7579			N/A
5/30/2019	EURNOK	3:30:00 PM	9.756	9.7675			N/A
5/30/2019	EURNOK.fx	9:30:00 AM	9.73673	9.7382			N/A
5/30/2019	EURNOK.fx	11:30:00 AM	9.75151	9.75271			N/A

5/30/2019	EURNOK.fx	1:30:00 PM	9.75129	9.7524			N/A
5/30/2019	EURNOK.fx	3:30:00 PM	9.76136	9.76237			N/A
5/30/2019	EURNZD	9:30:00 AM	1.70655	1.70733			N/A
5/30/2019	EURNZD	11:30:00 AM	1.70628	1.70718			N/A
5/30/2019	EURNZD	1:30:00 PM	1.7073	1.70798			N/A
5/30/2019	EURNZD	3:30:00 PM	1.70954	1.70993			N/A
5/30/2019	EURNZD.fx	9:30:00 AM	1.70695	1.70691			N/A
5/30/2019	EURNZD.fx	11:30:00 AM	1.70671	1.70674			N/A
5/30/2019	EURNZD.fx	1:30:00 PM	1.70774	1.70753			N/A
5/30/2019	EURNZD.fx	3:30:00 PM	1.70992	1.70974			N/A
5/30/2019	EURPLN	9:30:00 AM	4.2913	4.2946			N/A
5/30/2019	EURPLN	11:30:00 AM	4.2901	4.2934			N/A
5/30/2019	EURPLN	1:30:00 PM	4.2869	4.2901			N/A
5/30/2019	EURPLN	3:30:00 PM	4.2867	4.2898			N/A
5/30/2019	EURPLN.fx	9:30:00 AM	4.29057	4.29522			N/A
5/30/2019	EURPLN.fx	11:30:00 AM	4.2894	4.29392			N/A
5/30/2019	EURPLN.fx	1:30:00 PM	4.28637	4.29062			N/A
5/30/2019	EURPLN.fx	3:30:00 PM	4.28604	4.29028			N/A
5/30/2019	EURRUB	9:30:00 AM					N/A
5/30/2019	EURRUB	11:30:00 AM	72.15	72.582			N/A
5/30/2019	EURRUB	1:30:00 PM	72.02	72.454			N/A
5/30/2019	EURRUB	3:30:00 PM	72.022	72.36			N/A
5/30/2019	EURSEK	9:30:00 AM	10.6323	10.6369			N/A
5/30/2019	EURSEK	11:30:00 AM	10.6357	10.641			N/A
5/30/2019	EURSEK	1:30:00 PM	10.6276	10.6326			N/A
5/30/2019	EURSEK	3:30:00 PM	10.627	10.6304			N/A
5/30/2019	EURSEK.fx	9:30:00 AM	10.63368	10.63528			N/A
5/30/2019	EURSEK.fx	11:30:00 AM	10.63734	10.63937			N/A
5/30/2019	EURSEK.fx	1:30:00 PM	10.62929	10.63092			N/A
5/30/2019	EURSEK.fx	3:30:00 PM	10.62773	10.62894			N/A
5/30/2019	EURSGD	9:30:00 AM	1.535	1.5359			N/A
5/30/2019	EURSGD	11:30:00 AM	1.5357	1.5364			N/A
5/30/2019	EURSGD	1:30:00 PM	1.5363	1.5369			N/A
5/30/2019	EURSGD	3:30:00 PM	1.5363	1.5367			N/A

5/30/2019	EURSGD.fx	9:30:00 AM	1.53537	1.53542			N/A
5/30/2019	EURSGD.fx	11:30:00 AM	1.53602	1.53603			N/A
5/30/2019	EURSGD.fx	1:30:00 PM	1.53661	1.53652			N/A
5/30/2019	EURSGD.fx	3:30:00 PM	1.53664	1.53636			N/A
5/30/2019	EURUSD	9:30:00 AM	1.11302	1.11314			N/A
5/30/2019	EURUSD	11:30:00 AM	1.11345	1.11356			N/A
5/30/2019	EURUSD	1:30:00 PM	1.11372	1.11366			N/A
5/30/2019	EURUSD	3:30:00 PM	1.11381	1.11347			N/A
5/30/2019	EURUSD.fx	9:30:00 AM	1.11322	1.11324			N/A
5/30/2019	EURUSD.fx	11:30:00 AM	1.11365	1.11365			N/A
5/30/2019	EURUSD.fx	1:30:00 PM	1.11393	1.11376			N/A
5/30/2019	EURUSD.fx	3:30:00 PM	1.114	1.11361			N/A
5/30/2019	EURZAR	9:30:00 AM	16.3117	16.3312			N/A
5/30/2019	EURZAR	11:30:00 AM	16.2857	16.2974			N/A
5/30/2019	EURZAR	1:30:00 PM	16.266	16.2845			N/A
5/30/2019	EURZAR	3:30:00 PM	16.2892	16.2895			N/A
5/30/2019	EURZAR.fx	9:30:00 AM	16.31135	16.33193			N/A
5/30/2019	EURZAR.fx	11:30:00 AM	16.28483	16.29784			N/A
5/30/2019	EURZAR.fx	1:30:00 PM	16.26537	16.28493			N/A
5/30/2019	EURZAR.fx	3:30:00 PM	16.28842	16.29099			N/A
5/30/2019	GBPAUD	9:30:00 AM	1.82231	1.82294			N/A
5/30/2019	GBPAUD	11:30:00 AM	1.82251	1.82307			N/A
5/30/2019	GBPAUD	1:30:00 PM	1.82157	1.82219			N/A
5/30/2019	GBPAUD	3:30:00 PM	1.82481	1.82511			N/A
5/30/2019	GBPAUD.fx	9:30:00 AM	1.82271	1.82253			N/A
5/30/2019	GBPAUD.fx	11:30:00 AM	1.82293	1.82267			N/A
5/30/2019	GBPAUD.fx	1:30:00 PM	1.82197	1.82179			N/A
5/30/2019	GBPAUD.fx	3:30:00 PM	1.82516	1.82472			N/A
5/30/2019	GBPCAD	9:30:00 AM	1.7062	1.70692			N/A
5/30/2019	GBPCAD	11:30:00 AM	1.70588	1.70644			N/A
5/30/2019	GBPCAD	1:30:00 PM	1.70269	1.70318			N/A
5/30/2019	GBPCAD	3:30:00 PM	1.70378	1.70418			N/A
5/30/2019	GBPCAD.fx	9:30:00 AM	1.70659	1.70652			N/A
5/30/2019	GBPCAD.fx	11:30:00 AM	1.70626	1.70603			N/A

5/30/2019	GBPCAD.fx	1:30:00 PM	1.70308	1.70279			N/A
5/30/2019	GBPCAD.fx	3:30:00 PM	1.70418	1.70388			N/A
5/30/2019	GBPCHF	9:30:00 AM	1.27266	1.27305			N/A
5/30/2019	GBPCHF	11:30:00 AM	1.27485	1.27513			N/A
5/30/2019	GBPCHF	1:30:00 PM	1.27417	1.27449			N/A
5/30/2019	GBPCHF	3:30:00 PM	1.27291	1.273			N/A
5/30/2019	GBPCHF.fx	9:30:00 AM	1.27285	1.27285			N/A
5/30/2019	GBPCHF.fx	11:30:00 AM	1.27505	1.27492			N/A
5/30/2019	GBPCHF.fx	1:30:00 PM	1.27436	1.27429			N/A
5/30/2019	GBPCHF.fx	3:30:00 PM	1.2729	1.27281			N/A
5/30/2019	GBPCZK	9:30:00 AM	29.304	29.326			N/A
5/30/2019	GBPCZK	11:30:00 AM	29.298	29.315			N/A
5/30/2019	GBPCZK	1:30:00 PM	29.248	29.268			N/A
5/30/2019	GBPCZK	3:30:00 PM	29.262	29.281			N/A
5/30/2019	GBPDKK	9:30:00 AM	8.469	8.48			N/A
5/30/2019	GBPDKK	11:30:00 AM	8.471	8.481			N/A
5/30/2019	GBPDKK	1:30:00 PM	8.46	8.471			N/A
5/30/2019	GBPDKK	3:30:00 PM	8.463	8.473			N/A
5/30/2019	GBPDKK.fx	9:30:00 AM	8.468	8.4807			N/A
5/30/2019	GBPDKK.fx	11:30:00 AM	8.4694	8.4815			N/A
5/30/2019	GBPDKK.fx	1:30:00 PM	8.4584	8.4711			N/A
5/30/2019	GBPDKK.fx	3:30:00 PM	8.4609	8.4739			N/A
5/30/2019	GBPHKD	9:30:00 AM	9.9096	9.9149			N/A
5/30/2019	GBPHKD	11:30:00 AM	9.9136	9.9193			N/A
5/30/2019	GBPHKD	1:30:00 PM	9.9031	9.9073			N/A
5/30/2019	GBPHKD	3:30:00 PM	9.9067	9.9085			N/A
5/30/2019	GBPHUF	9:30:00 AM	369.34	369.79			N/A
5/30/2019	GBPHUF	11:30:00 AM	368.94	369.36			N/A
5/30/2019	GBPHUF	1:30:00 PM	367.79	368.24			N/A
5/30/2019	GBPHUF	3:30:00 PM	367.76	368.06			N/A
5/30/2019	GBPJPY	9:30:00 AM	138.553	138.589			N/A
5/30/2019	GBPJPY	11:30:00 AM	138.668	138.691			N/A
5/30/2019	GBPJPY	1:30:00 PM	138.501	138.523			N/A
5/30/2019	GBPJPY	3:30:00 PM	138.517	138.531			N/A

5/30/2019	GBPJPY.fx	9:30:00 AM	138.572	138.57			N/A
5/30/2019	GBPJPY.fx	11:30:00 AM	138.689	138.672			N/A
5/30/2019	GBPJPY.fx	1:30:00 PM	138.52	138.503			N/A
5/30/2019	GBPJPY.fx	3:30:00 PM	138.534	138.519			N/A
5/30/2019	GBPMXN	9:30:00 AM	24.1622	24.1767			N/A
5/30/2019	GBPMXN	11:30:00 AM	24.1773	24.188			N/A
5/30/2019	GBPMXN	1:30:00 PM	24.1221	24.1337			N/A
5/30/2019	GBPMXN	3:30:00 PM	24.1625	24.1665			N/A
5/30/2019	GBPNOK	9:30:00 AM	11.0433	11.054			N/A
5/30/2019	GBPNOK	11:30:00 AM	11.061	11.0722			N/A
5/30/2019	GBPNOK	1:30:00 PM	11.0471	11.058			N/A
5/30/2019	GBPNOK	3:30:00 PM	11.0637	11.0736			N/A
5/30/2019	GBPNOK.fx	9:30:00 AM	11.04795	11.04915			N/A
5/30/2019	GBPNOK.fx	11:30:00 AM	11.06592	11.06718			N/A
5/30/2019	GBPNOK.fx	1:30:00 PM	11.05196	11.05305			N/A
5/30/2019	GBPNOK.fx	3:30:00 PM	11.06717	11.069			N/A
5/30/2019	GBPNZD	9:30:00 AM	1.93639	1.93699			N/A
5/30/2019	GBPNZD	11:30:00 AM	1.93645	1.93708			N/A
5/30/2019	GBPNZD	1:30:00 PM	1.93505	1.93563			N/A
5/30/2019	GBPNZD	3:30:00 PM	1.93823	1.93874			N/A
5/30/2019	GBPNZD.fx	9:30:00 AM	1.93673	1.93663			N/A
5/30/2019	GBPNZD.fx	11:30:00 AM	1.9368	1.93669			N/A
5/30/2019	GBPNZD.fx	1:30:00 PM	1.93543	1.93524			N/A
5/30/2019	GBPNZD.fx	3:30:00 PM	1.93859	1.93839			N/A
5/30/2019	GBPPLN	9:30:00 AM	4.87	4.872			N/A
5/30/2019	GBPPLN	11:30:00 AM	4.8694	4.8709			N/A
5/30/2019	GBPPLN	1:30:00 PM	4.8599	4.8614			N/A
5/30/2019	GBPPLN	3:30:00 PM	4.8611	4.8628			N/A
5/30/2019	GBPPLN.fx	9:30:00 AM	4.86792	4.87396			N/A
5/30/2019	GBPPLN.fx	11:30:00 AM	4.8673	4.87295			N/A
5/30/2019	GBPPLN.fx	1:30:00 PM	4.85772	4.86352			N/A
5/30/2019	GBPPLN.fx	3:30:00 PM	4.85876	4.86481			N/A
5/30/2019	GBPSEK	9:30:00 AM	12.0621	12.0704			N/A
5/30/2019	GBPSEK	11:30:00 AM	12.0681	12.0764			N/A

5/30/2019	GBPSEK	1:30:00 PM	12.0436	12.0526			N/A
5/30/2019	GBPSEK	3:30:00 PM	12.0473	12.0544			N/A
5/30/2019	GBPSEK.fx	9:30:00 AM	12.05824	12.07434			N/A
5/30/2019	GBPSEK.fx	11:30:00 AM	12.06448	12.08009			N/A
5/30/2019	GBPSEK.fx	1:30:00 PM	12.03989	12.05624			N/A
5/30/2019	GBPSEK.fx	3:30:00 PM	12.04209	12.05869			N/A
5/30/2019	GBPSGD	9:30:00 AM	1.7418	1.7425			N/A
5/30/2019	GBPSGD	11:30:00 AM	1.7427	1.7434			N/A
5/30/2019	GBPSGD	1:30:00 PM	1.7413	1.7419			N/A
5/30/2019	GBPSGD	3:30:00 PM	1.7419	1.7422			N/A
5/30/2019	GBPSGD.fx	9:30:00 AM	1.73995	1.7443			N/A
5/30/2019	GBPSGD.fx	11:30:00 AM	1.74089	1.74516			N/A
5/30/2019	GBPSGD.fx	1:30:00 PM	1.73942	1.74366			N/A
5/30/2019	GBPSGD.fx	3:30:00 PM	1.74002	1.74419			N/A
5/30/2019	GBPUSD	9:30:00 AM	1.26312	1.26312			N/A
5/30/2019	GBPUSD	11:30:00 AM	1.26378	1.26376			N/A
5/30/2019	GBPUSD	1:30:00 PM	1.26246	1.26234			N/A
5/30/2019	GBPUSD	3:30:00 PM	1.263	1.26265			N/A
5/30/2019	GBPUSD.fx	9:30:00 AM	1.26317	1.26307			N/A
5/30/2019	GBPUSD.fx	11:30:00 AM	1.26384	1.2637			N/A
5/30/2019	GBPUSD.fx	1:30:00 PM	1.26251	1.26228			N/A
5/30/2019	GBPUSD.fx	3:30:00 PM	1.26303	1.26265			N/A
5/30/2019	GBPZAR	9:30:00 AM	18.5047	18.5328			N/A
5/30/2019	GBPZAR	11:30:00 AM	18.477	18.4983			N/A
5/30/2019	GBPZAR	1:30:00 PM	18.4326	18.4599			N/A
5/30/2019	GBPZAR	3:30:00 PM	18.4636	18.4715			N/A
5/30/2019	GBPZAR.fx	9:30:00 AM	18.5124	18.5251			N/A
5/30/2019	GBPZAR.fx	11:30:00 AM	18.4841	18.4904			N/A
5/30/2019	GBPZAR.fx	1:30:00 PM	18.4404	18.4526			N/A
5/30/2019	GBPZAR.fx	3:30:00 PM	18.4682	18.4658			N/A
5/30/2019	GOLD	9:30:00 AM	1277.4	1277.5			N/A
5/30/2019	GOLD	11:30:00 AM	1276.22	1276.18			N/A
5/30/2019	GOLD	1:30:00 PM	1276.11	1276.19			N/A
5/30/2019	GOLD	3:30:00 PM	1280.89	1279.77			N/A

5/30/2019	HKDJPY	9:30:00 AM	13.98	13.99			N/A
5/30/2019	HKDJPY	11:30:00 AM					N/A
5/30/2019	HKDJPY	1:30:00 PM					N/A
5/30/2019	HKDJPY	3:30:00 PM	13.98	13.98			N/A
5/30/2019	HKDJPY.fx	9:30:00 AM	13.973	13.979			N/A
5/30/2019	HKDJPY.fx	11:30:00 AM	13.978	13.983			N/A
5/30/2019	HKDJPY.fx	1:30:00 PM	13.976	13.984			N/A
5/30/2019	HKDJPY.fx	3:30:00 PM	13.975	13.977			N/A
5/30/2019	HUFJPY	9:30:00 AM	0.375	0.3753			N/A
5/30/2019	HUFJPY	11:30:00 AM	0.3758	0.3761			N/A
5/30/2019	HUFJPY	1:30:00 PM	0.3764	0.3767			N/A
5/30/2019	HUFJPY	3:30:00 PM	0.3765	0.3767			N/A
5/30/2019	JP225.i	9:30:00 AM	20915.5	20930.5			N/A
5/30/2019	JP225.i	11:30:00 AM	20948	20961.93			N/A
5/30/2019	JP225.i	1:30:00 PM	20948	20965.5			N/A
5/30/2019	JP225.i	3:30:00 PM	20926.33	20935.5			N/A
5/30/2019	MXNJPY	9:30:00 AM					N/A
5/30/2019	MXNJPY	11:30:00 AM					N/A
5/30/2019	MXNJPY	1:30:00 PM	5.74	5.75			N/A
5/30/2019	MXNJPY	3:30:00 PM	5.73	5.74			N/A
5/30/2019	NASDAQ.i	9:30:00 AM					N/A
5/30/2019	NASDAQ.i	11:30:00 AM					N/A
5/30/2019	NASDAQ.i	1:30:00 PM					N/A
5/30/2019	NASDAQ.i	3:30:00 PM					N/A
5/30/2019	NOKJPY	9:30:00 AM	12.53	12.56			N/A
5/30/2019	NOKJPY	11:30:00 AM					N/A
5/30/2019	NOKJPY	1:30:00 PM	12.53	12.55			N/A
5/30/2019	NOKJPY	3:30:00 PM	12.51	12.53			N/A
5/30/2019	NOKJPY.fx	9:30:00 AM	12.539	12.546			N/A
5/30/2019	NOKJPY.fx	11:30:00 AM	12.528	12.535			N/A
5/30/2019	NOKJPY.fx	1:30:00 PM	12.53	12.535			N/A
5/30/2019	NOKJPY.fx	3:30:00 PM	12.513	12.519			N/A
5/30/2019	NZDCAD	9:30:00 AM	0.88084	0.88153			N/A
5/30/2019	NZDCAD	11:30:00 AM	0.88062	0.88132			N/A

5/30/2019	NZDCAD	1:30:00 PM	0.8796	0.88027			N/A
5/30/2019	NZDCAD	3:30:00 PM	0.87892	0.87924			N/A
5/30/2019	NZDCAD.fx	9:30:00 AM	0.88117	0.8812			N/A
5/30/2019	NZDCAD.fx	11:30:00 AM	0.88099	0.88097			N/A
5/30/2019	NZDCAD.fx	1:30:00 PM	0.87994	0.87991			N/A
5/30/2019	NZDCAD.fx	3:30:00 PM	0.87916	0.87897			N/A
5/30/2019	NZDCHF	9:30:00 AM	0.65687	0.65758			N/A
5/30/2019	NZDCHF	11:30:00 AM	0.65794	0.65864			N/A
5/30/2019	NZDCHF	1:30:00 PM	0.65805	0.65877			N/A
5/30/2019	NZDCHF	3:30:00 PM	0.65652	0.6569			N/A
5/30/2019	NZDCHF.fx	9:30:00 AM	0.65721	0.65722			N/A
5/30/2019	NZDCHF.fx	11:30:00 AM	0.65828	0.65828			N/A
5/30/2019	NZDCHF.fx	1:30:00 PM	0.65839	0.65842			N/A
5/30/2019	NZDCHF.fx	3:30:00 PM	0.65658	0.65657			N/A
5/30/2019	NZDCZK	9:30:00 AM					N/A
5/30/2019	NZDCZK	11:30:00 AM					N/A
5/30/2019	NZDCZK	1:30:00 PM	15.113	15.123			N/A
5/30/2019	NZDCZK	3:30:00 PM	15.096	15.105			N/A
5/30/2019	NZDDKK	9:30:00 AM					N/A
5/30/2019	NZDDKK	11:30:00 AM					N/A
5/30/2019	NZDDKK	1:30:00 PM					N/A
5/30/2019	NZDDKK	3:30:00 PM	4.365	4.369			N/A
5/30/2019	NZDHKD	9:30:00 AM	5.1159	5.1188			N/A
5/30/2019	NZDHKD	11:30:00 AM	5.1182	5.1211			N/A
5/30/2019	NZDHKD	1:30:00 PM	5.1164	5.119			N/A
5/30/2019	NZDHKD	3:30:00 PM	5.11	5.1112			N/A
5/30/2019	NZDHUF	9:30:00 AM	190.67	190.95			N/A
5/30/2019	NZDHUF	11:30:00 AM	190.46	190.75			N/A
5/30/2019	NZDHUF	1:30:00 PM	190.01	190.28			N/A
5/30/2019	NZDHUF	3:30:00 PM	189.7	189.89			N/A
5/30/2019	NZDJPY	9:30:00 AM	71.517	71.584			N/A
5/30/2019	NZDJPY	11:30:00 AM	71.571	71.637			N/A
5/30/2019	NZDJPY	1:30:00 PM	71.533	71.605			N/A
5/30/2019	NZDJPY	3:30:00 PM	71.441	71.484			N/A

5/30/2019	NZDJPY.fx	9:30:00 AM	71.549	71.55			N/A
5/30/2019	NZDJPY.fx	11:30:00 AM	71.602	71.605			N/A
5/30/2019	NZDJPY.fx	1:30:00 PM	71.565	71.572			N/A
5/30/2019	NZDJPY.fx	3:30:00 PM	71.457	71.453			N/A
5/30/2019	NZDMXN	9:30:00 AM	12.4754	12.4819			N/A
5/30/2019	NZDMXN	11:30:00 AM	12.4829	12.4889			N/A
5/30/2019	NZDMXN	1:30:00 PM	12.4634	12.4682			N/A
5/30/2019	NZDMXN	3:30:00 PM	12.465	12.4648			N/A
5/30/2019	NZDNOK	9:30:00 AM	5.7004	5.7044			N/A
5/30/2019	NZDNOK	11:30:00 AM	5.7096	5.7132			N/A
5/30/2019	NZDNOK	1:30:00 PM	5.707	5.7102			N/A
5/30/2019	NZDNOK	3:30:00 PM	5.7055	5.7061			N/A
5/30/2019	NZDPLN	9:30:00 AM	2.5136	2.515			N/A
5/30/2019	NZDPLN	11:30:00 AM	2.5132	2.5147			N/A
5/30/2019	NZDPLN	1:30:00 PM	2.51	2.5112			N/A
5/30/2019	NZDPLN	3:30:00 PM	2.5056	2.5069			N/A
5/30/2019	NZDSEK	9:30:00 AM	6.2247	6.2316			N/A
5/30/2019	NZDSEK	11:30:00 AM	6.2276	6.2344			N/A
5/30/2019	NZDSEK	1:30:00 PM	6.2194	6.2258			N/A
5/30/2019	NZDSEK	3:30:00 PM	6.2104	6.2166			N/A
5/30/2019	NZDSGD	9:30:00 AM	0.8993	0.8995			N/A
5/30/2019	NZDSGD	11:30:00 AM	0.8997	0.9001			N/A
5/30/2019	NZDSGD	1:30:00 PM	0.8996	0.9002			N/A
5/30/2019	NZDSGD	3:30:00 PM	0.8985	0.8989			N/A
5/30/2019	NZDSGD.fx	9:30:00 AM	0.89928	0.89985			N/A
5/30/2019	NZDSGD.fx	11:30:00 AM	0.89971	0.90031			N/A
5/30/2019	NZDSGD.fx	1:30:00 PM	0.89959	0.90021			N/A
5/30/2019	NZDSGD.fx	3:30:00 PM	0.89847	0.8989			N/A
5/30/2019	NZDUSD	9:30:00 AM	0.65213	0.65225			N/A
5/30/2019	NZDUSD	11:30:00 AM	0.65243	0.65259			N/A
5/30/2019	NZDUSD	1:30:00 PM	0.65222	0.65235			N/A
5/30/2019	NZDUSD	3:30:00 PM	0.65147	0.6514			N/A
5/30/2019	NZDUSD.fx	9:30:00 AM	0.6522	0.65225			N/A
5/30/2019	NZDUSD.fx	11:30:00 AM	0.6525	0.6526			N/A

5/30/2019	NZDUSD.fx	1:30:00 PM	0.6523	0.65236			N/A
5/30/2019	NZDUSD.fx	3:30:00 PM	0.65155	0.65142			N/A
5/30/2019	NZDZAR	9:30:00 AM	9.5487	9.5659			N/A
5/30/2019	NZDZAR	11:30:00 AM	9.5344	9.5474			N/A
5/30/2019	NZDZAR	1:30:00 PM	9.518	9.534			N/A
5/30/2019	NZDZAR	3:30:00 PM	9.5166	9.5226			N/A
5/30/2019	SEKJPY	9:30:00 AM	11.49	11.49			N/A
5/30/2019	SEKJPY	11:30:00 AM	11.49	11.5			N/A
5/30/2019	SEKJPY	1:30:00 PM	11.49	11.51			N/A
5/30/2019	SEKJPY	3:30:00 PM	11.5	11.5			N/A
5/30/2019	SEKJPY.fx	9:30:00 AM	11.475	11.493			N/A
5/30/2019	SEKJPY.fx	11:30:00 AM	11.478	11.496			N/A
5/30/2019	SEKJPY.fx	1:30:00 PM	11.488	11.505			N/A
5/30/2019	SEKJPY.fx	3:30:00 PM	11.487	11.504			N/A
5/30/2019	SGDJPY	9:30:00 AM	79.52	79.54			N/A
5/30/2019	SGDJPY	11:30:00 AM	79.56	79.55			N/A
5/30/2019	SGDJPY	1:30:00 PM	79.5	79.53			N/A
5/30/2019	SGDJPY	3:30:00 PM	79.49	79.5			N/A
5/30/2019	SILVER	9:30:00 AM	14.2	14.57			N/A
5/30/2019	SILVER	11:30:00 AM	14.19	14.57			N/A
5/30/2019	SILVER	1:30:00 PM	14.22	14.59			N/A
5/30/2019	SILVER	3:30:00 PM	14.27	14.63			N/A
5/30/2019	SPX500.i	9:30:00 AM	2786.88	2787.68			N/A
5/30/2019	SPX500.i	11:30:00 AM	2790.01	2790.68			N/A
5/30/2019	SPX500.i	1:30:00 PM	2791.13	2792.18			N/A
5/30/2019	SPX500.i	3:30:00 PM	2790.51	2789.43			N/A
5/30/2019	UK100.i	9:30:00 AM	7191.52	7192.6			N/A
5/30/2019	UK100.i	11:30:00 AM	7203.35	7203.85			N/A
5/30/2019	UK100.i	1:30:00 PM	7223.1	7222.85			N/A
5/30/2019	UK100.i	3:30:00 PM	7221.1	7219.6			N/A
5/30/2019	USDCAD	9:30:00 AM	1.35108	1.35118			N/A
5/30/2019	USDCAD	11:30:00 AM	1.35022	1.35016			N/A
5/30/2019	USDCAD	1:30:00 PM	1.34904	1.34906			N/A
5/30/2019	USDCAD	3:30:00 PM	1.34949	1.34926			N/A

5/30/2019	USDCAD.fx	9:30:00 AM	1.35111	1.35115			N/A
5/30/2019	USDCAD.fx	11:30:00 AM	1.35025	1.35012			N/A
5/30/2019	USDCAD.fx	1:30:00 PM	1.34907	1.34902			N/A
5/30/2019	USDCAD.fx	3:30:00 PM	1.34941	1.34925			N/A
5/30/2019	USDCHF	9:30:00 AM	1.00767	1.00777			N/A
5/30/2019	USDCHF	11:30:00 AM	1.00886	1.0089			N/A
5/30/2019	USDCHF	1:30:00 PM	1.00937	1.00945			N/A
5/30/2019	USDCHF	3:30:00 PM	1.00817	1.00782			N/A
5/30/2019	USDCHF.fx	9:30:00 AM	1.00772	1.0077			N/A
5/30/2019	USDCHF.fx	11:30:00 AM	1.00891	1.00884			N/A
5/30/2019	USDCHF.fx	1:30:00 PM	1.00941	1.00939			N/A
5/30/2019	USDCHF.fx	3:30:00 PM	1.00812	1.00777			N/A
5/30/2019	USDCZK	9:30:00 AM	23.217	23.24			N/A
5/30/2019	USDCZK	11:30:00 AM	23.199	23.221			N/A
5/30/2019	USDCZK	1:30:00 PM	23.187	23.206			N/A
5/30/2019	USDCZK	3:30:00 PM	23.194	23.209			N/A
5/30/2019	USDCZK.fx	9:30:00 AM	23.2253	23.232			N/A
5/30/2019	USDCZK.fx	11:30:00 AM	23.2068	23.212			N/A
5/30/2019	USDCZK.fx	1:30:00 PM	23.1955	23.197			N/A
5/30/2019	USDCZK.fx	3:30:00 PM	23.2014	23.2001			N/A
5/30/2019	USDDKK	9:30:00 AM	6.7075	6.7115			N/A
5/30/2019	USDDKK	11:30:00 AM	6.7049	6.7088			N/A
5/30/2019	USDDKK	1:30:00 PM	6.7041	6.7071			N/A
5/30/2019	USDDKK	3:30:00 PM	6.7053	6.7064			N/A
5/30/2019	USDDKK.fx	9:30:00 AM	6.70795	6.70952			N/A
5/30/2019	USDDKK.fx	11:30:00 AM	6.70541	6.70676			N/A
5/30/2019	USDDKK.fx	1:30:00 PM	6.70461	6.70511			N/A
5/30/2019	USDDKK.fx	3:30:00 PM	6.70529	6.70431			N/A
5/30/2019	USDHKD	9:30:00 AM	7.8488	7.8491			N/A
5/30/2019	USDHKD	11:30:00 AM	7.8484	7.8487			N/A
5/30/2019	USDHKD	1:30:00 PM	7.8477	7.8481			N/A
5/30/2019	USDHKD	3:30:00 PM	7.8481	7.8481			N/A
5/30/2019	USDHKD.fx	9:30:00 AM	7.84885	7.8494			N/A
5/30/2019	USDHKD.fx	11:30:00 AM	7.84837	7.84891			N/A

5/30/2019	USDHKD.fx	1:30:00 PM	7.84762	7.84815			N/A
5/30/2019	USDHKD.fx	3:30:00 PM	7.84806	7.84856			N/A
5/30/2019	USDHUF	9:30:00 AM	292.47	292.95			N/A
5/30/2019	USDHUF	11:30:00 AM	292.02	292.45			N/A
5/30/2019	USDHUF	1:30:00 PM	291.45	291.87			N/A
5/30/2019	USDHUF	3:30:00 PM	291.43	291.76			N/A
5/30/2019	USDHUF.fx	9:30:00 AM	292.655	292.765			N/A
5/30/2019	USDHUF.fx	11:30:00 AM	292.215	292.237			N/A
5/30/2019	USDHUF.fx	1:30:00 PM	291.635	291.667			N/A
5/30/2019	USDHUF.fx	3:30:00 PM	291.564	291.576			N/A
5/30/2019	USDINR	9:30:00 AM	64.82	74.81			N/A
5/30/2019	USDINR	11:30:00 AM	64.84	74.82			N/A
5/30/2019	USDINR	1:30:00 PM					N/A
5/30/2019	USDINR	3:30:00 PM					N/A
5/30/2019	USDJPY	9:30:00 AM	109.704	109.71			N/A
5/30/2019	USDJPY	11:30:00 AM	109.736	109.736			N/A
5/30/2019	USDJPY	1:30:00 PM	109.716	109.728			N/A
5/30/2019	USDJPY	3:30:00 PM	109.71	109.681			N/A
5/30/2019	USDJPY.fx	9:30:00 AM	109.71	109.702			N/A
5/30/2019	USDJPY.fx	11:30:00 AM	109.742	109.729			N/A
5/30/2019	USDJPY.fx	1:30:00 PM	109.722	109.721			N/A
5/30/2019	USDJPY.fx	3:30:00 PM	109.713	109.675			N/A
5/30/2019	USDMXN	9:30:00 AM	19.136	19.145			N/A
5/30/2019	USDMXN	11:30:00 AM	19.139	19.144			N/A
5/30/2019	USDMXN	1:30:00 PM	19.115	19.121			N/A
5/30/2019	USDMXN	3:30:00 PM	19.148	19.14			N/A
5/30/2019	USDMXN.f	9:30:00 AM	19.1396	19.1413			N/A
5/30/2019	USDMXN.f	11:30:00 AM	19.1425	19.1409			N/A
5/30/2019	USDMXN.f	1:30:00 PM	19.1185	19.1175			N/A
5/30/2019	USDMXN.f	3:30:00 PM	19.1501	19.136			N/A
5/30/2019	USDNOK	9:30:00 AM	8.7428	8.7518			N/A
5/30/2019	USDNOK	11:30:00 AM	8.7528	8.7613			N/A
5/30/2019	USDNOK	1:30:00 PM	8.7516	8.7591			N/A
5/30/2019	USDNOK	3:30:00 PM	8.7625	8.7674			N/A

5/30/2019	USDNOK.fx	9:30:00 AM	8.74665	8.74726			N/A
5/30/2019	USDNOK.fx	11:30:00 AM	8.75685	8.75699			N/A
5/30/2019	USDNOK.fx	1:30:00 PM	8.75564	8.75453			N/A
5/30/2019	USDNOK.fx	3:30:00 PM	8.76557	8.76292			N/A
5/30/2019	USDPLN	9:30:00 AM	3.8555	3.8572			N/A
5/30/2019	USDPLN	11:30:00 AM	3.853	3.8545			N/A
5/30/2019	USDPLN	1:30:00 PM	3.8496	3.8508			N/A
5/30/2019	USDPLN	3:30:00 PM	3.8501	3.8502			N/A
5/30/2019	USDPLN.fx	9:30:00 AM	3.8547	3.85791			N/A
5/30/2019	USDPLN.fx	11:30:00 AM	3.85218	3.85523			N/A
5/30/2019	USDPLN.fx	1:30:00 PM	3.84886	3.85153			N/A
5/30/2019	USDPLN.fx	3:30:00 PM	3.84923	3.85107			N/A
5/30/2019	USDRUB	9:30:00 AM					N/A
5/30/2019	USDRUB	11:30:00 AM	64.912	65.299			N/A
5/30/2019	USDRUB	1:30:00 PM	64.785	65.179			N/A
5/30/2019	USDRUB	3:30:00 PM	64.796	65.146			N/A
5/30/2019	USDSEK	9:30:00 AM	9.5503	9.5549			N/A
5/30/2019	USDSEK	11:30:00 AM	9.55	9.5546			N/A
5/30/2019	USDSEK	1:30:00 PM	9.5418	9.545			N/A
5/30/2019	USDSEK	3:30:00 PM	9.5426	9.5428			N/A
5/30/2019	USDSEK.fx	9:30:00 AM	9.55294	9.55325			N/A
5/30/2019	USDSEK.fx	11:30:00 AM	9.5526	9.55279			N/A
5/30/2019	USDSEK.fx	1:30:00 PM	9.54437	9.54298			N/A
5/30/2019	USDSEK.fx	3:30:00 PM	9.54358	9.54088			N/A
5/30/2019	USDSGD	9:30:00 AM	1.379	1.3795			N/A
5/30/2019	USDSGD	11:30:00 AM	1.3792	1.3795			N/A
5/30/2019	USDSGD	1:30:00 PM	1.3794	1.3797			N/A
5/30/2019	USDSGD	3:30:00 PM	1.3794	1.3796			N/A
5/30/2019	USDSGD.fx	9:30:00 AM	1.37897	1.37942			N/A
5/30/2019	USDSGD.fx	11:30:00 AM	1.37907	1.3795			N/A
5/30/2019	USDSGD.fx	1:30:00 PM	1.37929	1.37976			N/A
5/30/2019	USDSGD.fx	3:30:00 PM	1.37925	1.37967			N/A
5/30/2019	USDZAR	9:30:00 AM	14.652	14.6708			N/A
5/30/2019	USDZAR	11:30:00 AM	14.6235	14.6345			N/A

5/30/2019	USDZAR	1:30:00 PM	14.6027	14.6194			N/A
5/30/2019	USDZAR	3:30:00 PM	14.6263	14.6227			N/A
5/30/2019	USDZAR.fx	9:30:00 AM	14.65769	14.66532			N/A
5/30/2019	USDZAR.fx	11:30:00 AM	14.62927	14.62778			N/A
5/30/2019	USDZAR.fx	1:30:00 PM	14.60847	14.61333			N/A
5/30/2019	USDZAR.fx	3:30:00 PM	14.62946	14.61773			N/A
5/30/2019	XAUUSD	9:30:00 AM	1277.42	1277.5			N/A
5/30/2019	XAUUSD	11:30:00 AM	1276.22	1276.18			N/A
5/30/2019	XAUUSD	1:30:00 PM	1276.12	1276.18			N/A
5/30/2019	XAUUSD	3:30:00 PM	1280.89	1279.79			N/A
5/30/2019	ZARJPY	9:30:00 AM	7.45	7.49			N/A
5/30/2019	ZARJPY	11:30:00 AM	7.48	7.51			N/A
5/30/2019	ZARJPY	1:30:00 PM	7.47	7.51			N/A
5/30/2019	ZARJPY	3:30:00 PM	7.49	7.5			N/A
5/30/2019	ZARJPY.fx	9:30:00 AM	7.48	7.484			N/A
5/30/2019	ZARJPY.fx	11:30:00 AM	7.501	7.502			N/A
5/30/2019	ZARJPY.fx	1:30:00 PM	7.506	7.511			N/A
5/30/2019	ZARJPY.fx	3:30:00 PM	7.502	7.499			N/A
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5/31/2019	#QQQ	3:30:00 PM					N/A
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5/31/2019	#Ripple	11:30:00 AM	0.4164	0.4205			N/A
5/31/2019	#Ripple	1:30:00 PM	0.4167	0.4215			N/A
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5/31/2019	#SBUX	11:30:00 AM					N/A
5/31/2019	#SBUX	1:30:00 PM					N/A
5/31/2019	#SBUX	3:30:00 PM					N/A

5/31/2019	#SNE	9:30:00 AM					N/A
5/31/2019	#SNE	11:30:00 AM					N/A
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5/31/2019	#TSLA	3:30:00 PM					N/A
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5/31/2019	#TWTR	11:30:00 AM					N/A

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5/31/2019	#UBS	11:30:00 AM					N/A
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5/31/2019	#UPS	1:30:00 PM					N/A
5/31/2019	#UPS	3:30:00 PM					N/A
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5/31/2019	#UTX	11:30:00 AM					N/A
5/31/2019	#UTX	1:30:00 PM					N/A
5/31/2019	#UTX	3:30:00 PM					N/A
5/31/2019	#V	9:30:00 AM					N/A
5/31/2019	#V	11:30:00 AM					N/A
5/31/2019	#V	1:30:00 PM					N/A
5/31/2019	#V	3:30:00 PM					N/A
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5/31/2019	#WDC	1:30:00 PM					N/A
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5/31/2019	#WFC	11:30:00 AM					N/A
5/31/2019	#WFC	1:30:00 PM					N/A
5/31/2019	#WFC	3:30:00 PM					N/A
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5/31/2019	#XOM	1:30:00 PM					N/A
5/31/2019	#XOM	3:30:00 PM					N/A
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5/31/2019	#YHOO	11:30:00 AM					N/A
5/31/2019	#YHOO	1:30:00 PM					N/A
5/31/2019	#YHOO	3:30:00 PM					N/A
5/31/2019	#ZNGA	9:30:00 AM					N/A
5/31/2019	#ZNGA	11:30:00 AM					N/A
5/31/2019	#ZNGA	1:30:00 PM					N/A
5/31/2019	#ZNGA	3:30:00 PM					N/A
5/31/2019	AUDCAD	9:30:00 AM	0.93583	0.93644			N/A
5/31/2019	AUDCAD	11:30:00 AM	0.93653	0.9372			N/A
5/31/2019	AUDCAD	1:30:00 PM	0.93759	0.93816			N/A
5/31/2019	AUDCAD	3:30:00 PM	0.9368	0.93601			N/A
5/31/2019	AUDCAD.fx	9:30:00 AM	0.93616	0.93608			N/A
5/31/2019	AUDCAD.fx	11:30:00 AM	0.93688	0.93685			N/A
5/31/2019	AUDCAD.fx	1:30:00 PM	0.93793	0.93782			N/A
5/31/2019	AUDCAD.fx	3:30:00 PM	0.93709	0.93588			N/A
5/31/2019	AUDCHF	9:30:00 AM	0.69505	0.69574			N/A
5/31/2019	AUDCHF	11:30:00 AM	0.69587	0.69656			N/A
5/31/2019	AUDCHF	1:30:00 PM	0.69443	0.69505			N/A
5/31/2019	AUDCHF	3:30:00 PM	0.69476	0.6953			N/A
5/31/2019	AUDCHF.fx	9:30:00 AM	0.69539	0.69539			N/A
5/31/2019	AUDCHF.fx	11:30:00 AM	0.69621	0.69621			N/A

5/31/2019	AUDCHF.fx	1:30:00 PM	0.69478	0.6947			N/A
5/31/2019	AUDCHF.fx	3:30:00 PM	0.69507	0.69496			N/A
5/31/2019	AUDCZK	9:30:00 AM	16.018	16.035			N/A
5/31/2019	AUDCZK	11:30:00 AM	16.018	16.036			N/A
5/31/2019	AUDCZK	1:30:00 PM	15.998	16.013			N/A
5/31/2019	AUDCZK	3:30:00 PM	15.98	15.99			N/A
5/31/2019	AUDDKK	9:30:00 AM	4.6342	4.6381			N/A
5/31/2019	AUDDKK	11:30:00 AM	4.634	4.6387			N/A
5/31/2019	AUDDKK	1:30:00 PM	4.6304	4.635			N/A
5/31/2019	AUDDKK	3:30:00 PM	4.6263	4.6301			N/A
5/31/2019	AUDHKD	9:30:00 AM	5.4199	5.4238			N/A
5/31/2019	AUDHKD	11:30:00 AM	5.4273	5.4312			N/A
5/31/2019	AUDHKD	1:30:00 PM	5.4228	5.4264			N/A
5/31/2019	AUDHKD	3:30:00 PM	5.4172	5.4205			N/A
5/31/2019	AUDHUF	9:30:00 AM	201.52	201.67			N/A
5/31/2019	AUDHUF	11:30:00 AM	201.46	201.71			N/A
5/31/2019	AUDHUF	1:30:00 PM	201.1	201.26			N/A
5/31/2019	AUDHUF	3:30:00 PM	200.7	200.88			N/A
5/31/2019	AUDJPY	9:30:00 AM	75.273	75.334			N/A
5/31/2019	AUDJPY	11:30:00 AM	75.314	75.37			N/A
5/31/2019	AUDJPY	1:30:00 PM	75.209	75.266			N/A
5/31/2019	AUDJPY	3:30:00 PM	75.177	75.204			N/A
5/31/2019	AUDJPY.fx	9:30:00 AM	75.307	75.298			N/A
5/31/2019	AUDJPY.fx	11:30:00 AM	75.348	75.335			N/A
5/31/2019	AUDJPY.fx	1:30:00 PM	75.243	75.23			N/A
5/31/2019	AUDJPY.fx	3:30:00 PM	75.21	75.17			N/A
5/31/2019	AUDMXN	9:30:00 AM	13.5265	13.5312			N/A
5/31/2019	AUDMXN	11:30:00 AM	13.5975	13.6051			N/A
5/31/2019	AUDMXN	1:30:00 PM	13.6426	13.643			N/A
5/31/2019	AUDMXN	3:30:00 PM	13.5433	13.5469			N/A
5/31/2019	AUDNOK	9:30:00 AM	6.0716	6.0765			N/A
5/31/2019	AUDNOK	11:30:00 AM	6.0723	6.0778			N/A
5/31/2019	AUDNOK	1:30:00 PM	6.0761	6.0814			N/A
5/31/2019	AUDNOK	3:30:00 PM	6.0657	6.0696			N/A

5/31/2019	AUDNOK.fx	9:30:00 AM	6.0731	6.0748			N/A
5/31/2019	AUDNOK.fx	11:30:00 AM	6.0739	6.076			N/A
5/31/2019	AUDNOK.fx	1:30:00 PM	6.0778	6.0797			N/A
5/31/2019	AUDNOK.fx	3:30:00 PM	6.0672	6.068			N/A
5/31/2019	AUDNZD	9:30:00 AM	1.06126	1.06218			N/A
5/31/2019	AUDNZD	11:30:00 AM	1.06072	1.06159			N/A
5/31/2019	AUDNZD	1:30:00 PM	1.06115	1.06205			N/A
5/31/2019	AUDNZD	3:30:00 PM	1.06156	1.06241			N/A
5/31/2019	AUDNZD.fx	9:30:00 AM	1.06171	1.06173			N/A
5/31/2019	AUDNZD.fx	11:30:00 AM	1.06116	1.06113			N/A
5/31/2019	AUDNZD.fx	1:30:00 PM	1.0616	1.0616			N/A
5/31/2019	AUDNZD.fx	3:30:00 PM	1.06198	1.06196			N/A
5/31/2019	AUDPLN	9:30:00 AM	2.6628	2.6657			N/A
5/31/2019	AUDPLN	11:30:00 AM	2.6611	2.6645			N/A
5/31/2019	AUDPLN	1:30:00 PM	2.6567	2.66			N/A
5/31/2019	AUDPLN	3:30:00 PM	2.6538	2.6564			N/A
5/31/2019	AUDSEK	9:30:00 AM	6.599	6.6022			N/A
5/31/2019	AUDSEK	11:30:00 AM	6.6108	6.6122			N/A
5/31/2019	AUDSEK	1:30:00 PM	6.6098	6.6123			N/A
5/31/2019	AUDSEK	3:30:00 PM	6.592	6.5925			N/A
5/31/2019	AUDSEK.fx	9:30:00 AM	6.5944	6.6065			N/A
5/31/2019	AUDSEK.fx	11:30:00 AM	6.6062	6.6162			N/A
5/31/2019	AUDSEK.fx	1:30:00 PM	6.6052	6.6167			N/A
5/31/2019	AUDSEK.fx	3:30:00 PM	6.5857	6.597			N/A
5/31/2019	AUDSGD	9:30:00 AM	0.9532	0.9534			N/A
5/31/2019	AUDSGD	11:30:00 AM	0.9531	0.9531			N/A
5/31/2019	AUDSGD	1:30:00 PM	0.9528	0.9531			N/A
5/31/2019	AUDSGD	3:30:00 PM	0.9528	0.953			N/A
5/31/2019	AUDSGD.fx	9:30:00 AM	0.95328	0.95332			N/A
5/31/2019	AUDSGD.fx	11:30:00 AM	0.95316	0.9532			N/A
5/31/2019	AUDSGD.fx	1:30:00 PM	0.95291	0.95297			N/A
5/31/2019	AUDSGD.fx	3:30:00 PM	0.95288	0.95296			N/A
5/31/2019	AUDUSD	9:30:00 AM	0.69116	0.69122			N/A
5/31/2019	AUDUSD	11:30:00 AM	0.69229	0.69234			N/A

5/31/2019	AUDUSD	1:30:00 PM	0.69172	0.69172			N/A
5/31/2019	AUDUSD	3:30:00 PM	0.69113	0.69118			N/A
5/31/2019	AUDUSD.fx	9:30:00 AM	0.69121	0.69116			N/A
5/31/2019	AUDUSD.fx	11:30:00 AM	0.69235	0.69227			N/A
5/31/2019	AUDUSD.fx	1:30:00 PM	0.69177	0.69166			N/A
5/31/2019	AUDUSD.fx	3:30:00 PM	0.69117	0.69113			N/A
5/31/2019	AUDZAR	9:30:00 AM	10.2068	10.2202			N/A
5/31/2019	AUDZAR	11:30:00 AM	10.2052	10.2203			N/A
5/31/2019	AUDZAR	1:30:00 PM	10.2049	10.2152			N/A
5/31/2019	AUDZAR	3:30:00 PM	10.129	10.1408			N/A
5/31/2019	AUS200.i	9:30:00 AM					N/A
5/31/2019	AUS200.i	11:30:00 AM	6387.1	6389.2			N/A
5/31/2019	AUS200.i	1:30:00 PM	6378.5	6381.1			N/A
5/31/2019	AUS200.i	3:30:00 PM	6384.1	6385.6			N/A
5/31/2019	BCHUSD	9:30:00 AM	434.96	436.58			N/A
5/31/2019	BCHUSD	11:30:00 AM	434.88	436.58			N/A
5/31/2019	BCHUSD	1:30:00 PM	435.33	437.29			N/A
5/31/2019	BCHUSD	3:30:00 PM	437.06	438.24			N/A
5/31/2019	CADCHF	9:30:00 AM	0.74248	0.74315			N/A
5/31/2019	CADCHF	11:30:00 AM	0.74279	0.74344			N/A
5/31/2019	CADCHF	1:30:00 PM	0.74045	0.74113			N/A
5/31/2019	CADCHF	3:30:00 PM	0.74256	0.74205			N/A
5/31/2019	CADCHF.fx	9:30:00 AM	0.74281	0.7428			N/A
5/31/2019	CADCHF.fx	11:30:00 AM	0.74313	0.74309			N/A
5/31/2019	CADCHF.fx	1:30:00 PM	0.74079	0.74077			N/A
5/31/2019	CADCHF.fx	3:30:00 PM	0.74278	0.74172			N/A
5/31/2019	CADCZK	9:30:00 AM	17.115	17.131			N/A
5/31/2019	CADCZK	11:30:00 AM	17.102	17.119			N/A
5/31/2019	CADCZK	1:30:00 PM	17.062	17.075			N/A
5/31/2019	CADCZK	3:30:00 PM	17.08	17.072			N/A
5/31/2019	CADDDKK	9:30:00 AM	4.952	4.955			N/A
5/31/2019	CADDDKK	11:30:00 AM	4.948	4.952			N/A
5/31/2019	CADDDKK	1:30:00 PM	4.939	4.942			N/A
5/31/2019	CADDDKK	3:30:00 PM	4.943	4.94			N/A

5/31/2019	CADHKD	9:30:00 AM	5.7905	5.7944			N/A
5/31/2019	CADHKD	11:30:00 AM	5.7935	5.7974			N/A
5/31/2019	CADHKD	1:30:00 PM	5.783	5.7864			N/A
5/31/2019	CADHKD	3:30:00 PM	5.7908	5.7852			N/A
5/31/2019	CADHUF	9:30:00 AM	215.36	215.41			N/A
5/31/2019	CADHUF	11:30:00 AM	215.11	215.27			N/A
5/31/2019	CADHUF	1:30:00 PM	214.51	214.56			N/A
5/31/2019	CADHUF	3:30:00 PM	214.53	214.36			N/A
5/31/2019	CADJPY	9:30:00 AM	80.406	80.477			N/A
5/31/2019	CADJPY	11:30:00 AM	80.389	80.448			N/A
5/31/2019	CADJPY	1:30:00 PM	80.196	80.258			N/A
5/31/2019	CADJPY	3:30:00 PM	80.334	80.246			N/A
5/31/2019	CADJPY.fx	9:30:00 AM	80.439	80.442			N/A
5/31/2019	CADJPY.fx	11:30:00 AM	80.422	80.414			N/A
5/31/2019	CADJPY.fx	1:30:00 PM	80.23	80.222			N/A
5/31/2019	CADJPY.fx	3:30:00 PM	80.366	80.214			N/A
5/31/2019	CADMXN	9:30:00 AM	14.4504	14.4583			N/A
5/31/2019	CADMXN	11:30:00 AM	14.5157	14.5248			N/A
5/31/2019	CADMXN	1:30:00 PM	14.5497	14.5487			N/A
5/31/2019	CADMXN	3:30:00 PM	14.4728	14.4628			N/A
5/31/2019	CADNOK	9:30:00 AM	6.4848	6.4878			N/A
5/31/2019	CADNOK	11:30:00 AM	6.4807	6.4851			N/A
5/31/2019	CADNOK	1:30:00 PM	6.4781	6.4821			N/A
5/31/2019	CADNOK	3:30:00 PM	6.4792	6.4729			N/A
5/31/2019	CADPLN	9:30:00 AM	2.8446	2.8466			N/A
5/31/2019	CADPLN	11:30:00 AM	2.8412	2.8431			N/A
5/31/2019	CADPLN	1:30:00 PM	2.8333	2.8348			N/A
5/31/2019	CADPLN	3:30:00 PM	2.8354	2.8333			N/A
5/31/2019	CADSEK	9:30:00 AM	7.0475	7.0514			N/A
5/31/2019	CADSEK	11:30:00 AM	7.0545	7.0569			N/A
5/31/2019	CADSEK	1:30:00 PM	7.0465	7.0484			N/A
5/31/2019	CADSEK	3:30:00 PM	7.0409	7.0336			N/A
5/31/2019	CADSGD	9:30:00 AM	1.0175	1.0178			N/A
5/31/2019	CADSGD	11:30:00 AM	1.0169	1.0172			N/A

5/31/2019	CADSGD	1:30:00 PM	1.0153	1.0156			N/A
5/31/2019	CADSGD	3:30:00 PM	1.0171	1.0175			N/A
5/31/2019	CADZAR	9:30:00 AM	10.9049	10.9189			N/A
5/31/2019	CADZAR	11:30:00 AM	10.8941	10.9109			N/A
5/31/2019	CADZAR	1:30:00 PM	10.8833	10.8943			N/A
5/31/2019	CADZAR	3:30:00 PM	10.8258	10.827			N/A
5/31/2019	CHFCZK	9:30:00 AM	23.044	23.06			N/A
5/31/2019	CHFCZK	11:30:00 AM	23.018	23.033			N/A
5/31/2019	CHFCZK	1:30:00 PM	23.037	23.049			N/A
5/31/2019	CHFCZK	3:30:00 PM	23.002	23.006			N/A
5/31/2019	CHFDKK	9:30:00 AM	6.666	6.669			N/A
5/31/2019	CHFDKK	11:30:00 AM	6.658	6.661			N/A
5/31/2019	CHFDKK	1:30:00 PM	6.667	6.67			N/A
5/31/2019	CHFDKK	3:30:00 PM	6.658	6.66			N/A
5/31/2019	CHFDKK.fx	9:30:00 AM	6.6648	6.6709			N/A
5/31/2019	CHFDKK.fx	11:30:00 AM	6.6568	6.6623			N/A
5/31/2019	CHFDKK.fx	1:30:00 PM	6.6655	6.6711			N/A
5/31/2019	CHFDKK.fx	3:30:00 PM	6.6567	6.6611			N/A
5/31/2019	CHFHKD	9:30:00 AM	7.7968	7.8007			N/A
5/31/2019	CHFHKD	11:30:00 AM	7.7989	7.8014			N/A
5/31/2019	CHFHKD	1:30:00 PM	7.8076	7.8111			N/A
5/31/2019	CHFHKD	3:30:00 PM	7.7961	7.7998			N/A
5/31/2019	CHFHUF	9:30:00 AM	289.83	290.11			N/A
5/31/2019	CHFHUF	11:30:00 AM	289.44	289.78			N/A
5/31/2019	CHFHUF	1:30:00 PM	289.51	289.74			N/A
5/31/2019	CHFHUF	3:30:00 PM	288.79	289.1			N/A
5/31/2019	CHFJPY	9:30:00 AM	108.262	108.322			N/A
5/31/2019	CHFJPY	11:30:00 AM	108.196	108.245			N/A
5/31/2019	CHFJPY	1:30:00 PM	108.265	108.331			N/A
5/31/2019	CHFJPY	3:30:00 PM	108.168	108.182			N/A
5/31/2019	CHFJPY.fx	9:30:00 AM	108.295	108.287			N/A
5/31/2019	CHFJPY.fx	11:30:00 AM	108.229	108.21			N/A
5/31/2019	CHFJPY.fx	1:30:00 PM	108.298	108.297			N/A
5/31/2019	CHFJPY.fx	3:30:00 PM	108.201	108.15			N/A

5/31/2019	CHF MXN	9:30:00 AM	19.4557	19.4651			N/A
5/31/2019	CHF MXN	11:30:00 AM	19.5344	19.5452			N/A
5/31/2019	CHF MXN	1:30:00 PM	19.6428	19.6415			N/A
5/31/2019	CHF MXN	3:30:00 PM	19.492	19.4993			N/A
5/31/2019	CHF NOK	9:30:00 AM	8.7309	8.7388			N/A
5/31/2019	CHF NOK	11:30:00 AM	8.7217	8.7294			N/A
5/31/2019	CHF NOK	1:30:00 PM	8.7463	8.753			N/A
5/31/2019	CHF NOK	3:30:00 PM	8.7267	8.7325			N/A
5/31/2019	CHF NOK.fx	9:30:00 AM	8.73439	8.73535			N/A
5/31/2019	CHF NOK.fx	11:30:00 AM	8.72523	8.72587			N/A
5/31/2019	CHF NOK.fx	1:30:00 PM	8.7499	8.74942			N/A
5/31/2019	CHF NOK.fx	3:30:00 PM	8.73012	8.72916			N/A
5/31/2019	CHF PLN	9:30:00 AM	3.8301	3.8329			N/A
5/31/2019	CHF PLN	11:30:00 AM	3.8231	3.826			N/A
5/31/2019	CHF PLN	1:30:00 PM	3.825	3.8275			N/A
5/31/2019	CHF PLN	3:30:00 PM	3.8188	3.8211			N/A
5/31/2019	CHF PLN.fx	9:30:00 AM	3.82754	3.83533			N/A
5/31/2019	CHF PLN.fx	11:30:00 AM	3.82089	3.82813			N/A
5/31/2019	CHF PLN.fx	1:30:00 PM	3.82264	3.82981			N/A
5/31/2019	CHF PLN.fx	3:30:00 PM	3.81636	3.82375			N/A
5/31/2019	CHF SEK	9:30:00 AM	9.4883	9.4932			N/A
5/31/2019	CHF SEK	11:30:00 AM	9.4967	9.4957			N/A
5/31/2019	CHF SEK	1:30:00 PM	9.5129	9.5154			N/A
5/31/2019	CHF SEK	3:30:00 PM	9.4809	9.4831			N/A
5/31/2019	CHF SGD	9:30:00 AM	1.3707	1.3712			N/A
5/31/2019	CHF SGD	11:30:00 AM	1.3689	1.3693			N/A
5/31/2019	CHF SGD	1:30:00 PM	1.3716	1.3718			N/A
5/31/2019	CHF SGD	3:30:00 PM	1.371	1.3711			N/A
5/31/2019	CHF SGD.fx	9:30:00 AM	1.37092	1.37095			N/A
5/31/2019	CHF SGD.fx	11:30:00 AM	1.36916	1.36909			N/A
5/31/2019	CHF SGD.fx	1:30:00 PM	1.37173	1.37157			N/A
5/31/2019	CHF SGD.fx	3:30:00 PM	1.37112	1.37099			N/A
5/31/2019	CHF ZAR	9:30:00 AM	14.685	14.6973			N/A
5/31/2019	CHF ZAR	11:30:00 AM	14.6666	14.6798			N/A

5/31/2019	CHFZAR	1:30:00 PM	14.6977	14.7034			N/A
5/31/2019	CHFZAR	3:30:00 PM	14.5825	14.5897			N/A
5/31/2019	CZKJPY	9:30:00 AM					N/A
5/31/2019	CZKJPY	11:30:00 AM	4.7	4.703			N/A
5/31/2019	CZKJPY	1:30:00 PM	4.7	4.703			N/A
5/31/2019	CZKJPY	3:30:00 PM	4.702	4.704			N/A
5/31/2019	DAX30.i	9:30:00 AM	11760.12	11760.37			N/A
5/31/2019	DAX30.i	11:30:00 AM	11717.12	11711.12			N/A
5/31/2019	DAX30.i	1:30:00 PM	11683.87	11681.12			N/A
5/31/2019	DAX30.i	3:30:00 PM	11679.12	11670.77			N/A
5/31/2019	DJ30.i	9:30:00 AM					N/A
5/31/2019	DJ30.i	11:30:00 AM					N/A
5/31/2019	DJ30.i	1:30:00 PM					N/A
5/31/2019	DJ30.i	3:30:00 PM					N/A
5/31/2019	DKKJPY	9:30:00 AM	16.24	16.26			N/A
5/31/2019	DKKJPY	11:30:00 AM					N/A
5/31/2019	DKKJPY	1:30:00 PM					N/A
5/31/2019	DKKJPY	3:30:00 PM					N/A
5/31/2019	EURAUD	9:30:00 AM	1.60979	1.61019			N/A
5/31/2019	EURAUD	11:30:00 AM	1.60985	1.61033			N/A
5/31/2019	EURAUD	1:30:00 PM	1.61119	1.61163			N/A
5/31/2019	EURAUD	3:30:00 PM	1.6129	1.61301			N/A
5/31/2019	EURAUD.fx	9:30:00 AM	1.60999	1.60997			N/A
5/31/2019	EURAUD.fx	11:30:00 AM	1.61007	1.6101			N/A
5/31/2019	EURAUD.fx	1:30:00 PM	1.61142	1.6114			N/A
5/31/2019	EURAUD.fx	3:30:00 PM	1.61311	1.61279			N/A
5/31/2019	EURCAD	9:30:00 AM	1.50736	1.50814			N/A
5/31/2019	EURCAD	11:30:00 AM	1.50862	1.50939			N/A
5/31/2019	EURCAD	1:30:00 PM	1.51148	1.51219			N/A
5/31/2019	EURCAD	3:30:00 PM	1.51187	1.5102			N/A
5/31/2019	EURCAD.fx	9:30:00 AM	1.50777	1.50772			N/A
5/31/2019	EURCAD.fx	11:30:00 AM	1.50902	1.50898			N/A
5/31/2019	EURCAD.fx	1:30:00 PM	1.5119	1.51177			N/A
5/31/2019	EURCAD.fx	3:30:00 PM	1.51224	1.50981			N/A

5/31/2019	EURCHF	9:30:00 AM	1.11995	1.12003			N/A
5/31/2019	EURCHF	11:30:00 AM	1.12138	1.12137			N/A
5/31/2019	EURCHF	1:30:00 PM	1.11994	1.11994			N/A
5/31/2019	EURCHF	3:30:00 PM	1.12158	1.12141			N/A
5/31/2019	EURCHF.fx	9:30:00 AM	1.12	1.11997			N/A
5/31/2019	EURCHF.fx	11:30:00 AM	1.12143	1.1213			N/A
5/31/2019	EURCHF.fx	1:30:00 PM	1.11999	1.11987			N/A
5/31/2019	EURCHF.fx	3:30:00 PM	1.1216	1.12137			N/A
5/31/2019	EURCZK	9:30:00 AM	25.795	25.835			N/A
5/31/2019	EURCZK	11:30:00 AM	25.797	25.837			N/A
5/31/2019	EURCZK	1:30:00 PM	25.785	25.821			N/A
5/31/2019	EURCZK	3:30:00 PM	25.783	25.811			N/A
5/31/2019	EURDKK	9:30:00 AM	7.4653	7.4658			N/A
5/31/2019	EURDKK	11:30:00 AM	7.4671	7.4679			N/A
5/31/2019	EURDKK	1:30:00 PM	7.4673	7.4677			N/A
5/31/2019	EURDKK	3:30:00 PM	7.4643	7.4656			N/A
5/31/2019	EURGBP	9:30:00 AM	0.88324	0.88298			N/A
5/31/2019	EURGBP	11:30:00 AM	0.88312	0.88323			N/A
5/31/2019	EURGBP	1:30:00 PM	0.88596	0.88596			N/A
5/31/2019	EURGBP	3:30:00 PM	0.88659	0.88655			N/A
5/31/2019	EURGBP.fx	9:30:00 AM	0.88328	0.88293			N/A
5/31/2019	EURGBP.fx	11:30:00 AM	0.88315	0.88318			N/A
5/31/2019	EURGBP.fx	1:30:00 PM	0.886	0.88591			N/A
5/31/2019	EURGBP.fx	3:30:00 PM	0.88661	0.88652			N/A
5/31/2019	EURHKD	9:30:00 AM	8.7326	8.7374			N/A
5/31/2019	EURHKD	11:30:00 AM	8.7447	8.7489			N/A
5/31/2019	EURHKD	1:30:00 PM	8.7443	8.7485			N/A
5/31/2019	EURHKD	3:30:00 PM	8.7453	8.7472			N/A
5/31/2019	EURHKD.fx	9:30:00 AM	8.73542	8.73449			N/A
5/31/2019	EURHKD.fx	11:30:00 AM	8.74751	8.74605			N/A
5/31/2019	EURHKD.fx	1:30:00 PM	8.7471	8.74559			N/A
5/31/2019	EURHKD.fx	3:30:00 PM	8.74787	8.74436			N/A
5/31/2019	EURHUF	9:30:00 AM	324.58	325.26			N/A
5/31/2019	EURHUF	11:30:00 AM	324.47	325.16			N/A

5/31/2019	EURHUF	1:30:00 PM	324.16	324.77			N/A
5/31/2019	EURHUF	3:30:00 PM	323.94	324.38			N/A
5/31/2019	EURHUF.fx	9:30:00 AM	324.827	325.008			N/A
5/31/2019	EURHUF.fx	11:30:00 AM	324.753	324.922			N/A
5/31/2019	EURHUF.fx	1:30:00 PM	324.441	324.499			N/A
5/31/2019	EURHUF.fx	3:30:00 PM	324.218	324.376			N/A
5/31/2019	EURJPY	9:30:00 AM	121.286	121.282			N/A
5/31/2019	EURJPY	11:30:00 AM	121.358	121.344			N/A
5/31/2019	EURJPY	1:30:00 PM	121.289	121.277			N/A
5/31/2019	EURJPY	3:30:00 PM	121.334	121.298			N/A
5/31/2019	EURJPY.fx	9:30:00 AM	121.288	121.278			N/A
5/31/2019	EURJPY.fx	11:30:00 AM	121.36	121.34			N/A
5/31/2019	EURJPY.fx	1:30:00 PM	121.291	121.274			N/A
5/31/2019	EURJPY.fx	3:30:00 PM	121.336	121.295			N/A
5/31/2019	EURMXN	9:30:00 AM	21.7922	21.8045			N/A
5/31/2019	EURMXN	11:30:00 AM	21.9096	21.9234			N/A
5/31/2019	EURMXN	1:30:00 PM	21.9988	22.001			N/A
5/31/2019	EURMXN	3:30:00 PM	21.8652	21.8737			N/A
5/31/2019	EURMXN.fx	9:30:00 AM	21.799	21.7967			N/A
5/31/2019	EURMXN.fx	11:30:00 AM	21.9181	21.9152			N/A
5/31/2019	EURMXN.fx	1:30:00 PM	22.0077	21.9916			N/A
5/31/2019	EURMXN.fx	3:30:00 PM	21.8741	21.8658			N/A
5/31/2019	EURNOK	9:30:00 AM	9.7768	9.7893			N/A
5/31/2019	EURNOK	11:30:00 AM	9.7785	9.791			N/A
5/31/2019	EURNOK	1:30:00 PM	9.7928	9.8049			N/A
5/31/2019	EURNOK	3:30:00 PM	9.785	9.7967			N/A
5/31/2019	EURNOK.fx	9:30:00 AM	9.78208	9.78401			N/A
5/31/2019	EURNOK.fx	11:30:00 AM	9.78384	9.7856			N/A
5/31/2019	EURNOK.fx	1:30:00 PM	9.79827	9.7995			N/A
5/31/2019	EURNOK.fx	3:30:00 PM	9.78968	9.79148			N/A
5/31/2019	EURNZD	9:30:00 AM	1.70975	1.7105			N/A
5/31/2019	EURNZD	11:30:00 AM	1.70887	1.70969			N/A
5/31/2019	EURNZD	1:30:00 PM	1.71106	1.71175			N/A
5/31/2019	EURNZD	3:30:00 PM	1.71342	1.71393			N/A

5/31/2019	EURNZD.fx	9:30:00 AM	1.71015	1.71004			N/A
5/31/2019	EURNZD.fx	11:30:00 AM	1.70929	1.70926			N/A
5/31/2019	EURNZD.fx	1:30:00 PM	1.71146	1.71133			N/A
5/31/2019	EURNZD.fx	3:30:00 PM	1.71381	1.71348			N/A
5/31/2019	EURPLN	9:30:00 AM	4.2896	4.2924			N/A
5/31/2019	EURPLN	11:30:00 AM	4.2872	4.2905			N/A
5/31/2019	EURPLN	1:30:00 PM	4.2835	4.2866			N/A
5/31/2019	EURPLN	3:30:00 PM	4.2824	4.2856			N/A
5/31/2019	EURPLN.fx	9:30:00 AM	4.28877	4.29319			N/A
5/31/2019	EURPLN.fx	11:30:00 AM	4.28667	4.29098			N/A
5/31/2019	EURPLN.fx	1:30:00 PM	4.28297	4.28719			N/A
5/31/2019	EURPLN.fx	3:30:00 PM	4.28176	4.28633			N/A
5/31/2019	EURRUB	9:30:00 AM					N/A
5/31/2019	EURRUB	11:30:00 AM	72.578	73.017			N/A
5/31/2019	EURRUB	1:30:00 PM	72.698	73.118			N/A
5/31/2019	EURRUB	3:30:00 PM	72.5	72.924			N/A
5/31/2019	EURSEK	9:30:00 AM	10.6282	10.6331			N/A
5/31/2019	EURSEK	11:30:00 AM	10.6485	10.6492			N/A
5/31/2019	EURSEK	1:30:00 PM	10.6548	10.6584			N/A
5/31/2019	EURSEK	3:30:00 PM	10.6353	10.6369			N/A
5/31/2019	EURSEK.fx	9:30:00 AM	10.62976	10.63157			N/A
5/31/2019	EURSEK.fx	11:30:00 AM	10.6502	10.64723			N/A
5/31/2019	EURSEK.fx	1:30:00 PM	10.65648	10.65661			N/A
5/31/2019	EURSEK.fx	3:30:00 PM	10.63597	10.63532			N/A
5/31/2019	EURSGD	9:30:00 AM	1.535	1.5358			N/A
5/31/2019	EURSGD	11:30:00 AM	1.535	1.5357			N/A
5/31/2019	EURSGD	1:30:00 PM	1.5359	1.5365			N/A
5/31/2019	EURSGD	3:30:00 PM	1.5374	1.5378			N/A
5/31/2019	EURSGD.fx	9:30:00 AM	1.53537	1.53539			N/A
5/31/2019	EURSGD.fx	11:30:00 AM	1.53531	1.53526			N/A
5/31/2019	EURSGD.fx	1:30:00 PM	1.53622	1.53607			N/A
5/31/2019	EURSGD.fx	3:30:00 PM	1.53777	1.53745			N/A
5/31/2019	EURUSD	9:30:00 AM	1.11305	1.1131			N/A
5/31/2019	EURUSD	11:30:00 AM	1.11496	1.11493			N/A

5/31/2019	EURUSD	1:30:00 PM	1.11493	1.11489			N/A
5/31/2019	EURUSD	3:30:00 PM	1.1152	1.11489			N/A
5/31/2019	EURUSD.fx	9:30:00 AM	1.11325	1.11319			N/A
5/31/2019	EURUSD.fx	11:30:00 AM	1.11516	1.11502			N/A
5/31/2019	EURUSD.fx	1:30:00 PM	1.11513	1.11498			N/A
5/31/2019	EURUSD.fx	3:30:00 PM	1.11538	1.115			N/A
5/31/2019	EURZAR	9:30:00 AM	16.4528	16.4701			N/A
5/31/2019	EURZAR	11:30:00 AM	16.4477	16.4669			N/A
5/31/2019	EURZAR	1:30:00 PM	16.4624	16.4719			N/A
5/31/2019	EURZAR	3:30:00 PM	16.3616	16.3751			N/A
5/31/2019	EURZAR.fx	9:30:00 AM	16.45201	16.47052			N/A
5/31/2019	EURZAR.fx	11:30:00 AM	16.44719	16.46748			N/A
5/31/2019	EURZAR.fx	1:30:00 PM	16.46139	16.47275			N/A
5/31/2019	EURZAR.fx	3:30:00 PM	16.3606	16.37546			N/A
5/31/2019	GBPAUD	9:30:00 AM	1.82369	1.82383			N/A
5/31/2019	GBPAUD	11:30:00 AM	1.82334	1.82415			N/A
5/31/2019	GBPAUD	1:30:00 PM	1.81925	1.8197			N/A
5/31/2019	GBPAUD	3:30:00 PM	1.81965	1.82019			N/A
5/31/2019	GBPAUD.fx	9:30:00 AM	1.82411	1.82343			N/A
5/31/2019	GBPAUD.fx	11:30:00 AM	1.82376	1.82375			N/A
5/31/2019	GBPAUD.fx	1:30:00 PM	1.81965	1.81929			N/A
5/31/2019	GBPAUD.fx	3:30:00 PM	1.82003	1.81978			N/A
5/31/2019	GBPCAD	9:30:00 AM	1.70738	1.70722			N/A
5/31/2019	GBPCAD	11:30:00 AM	1.70831	1.70902			N/A
5/31/2019	GBPCAD	1:30:00 PM	1.70608	1.70666			N/A
5/31/2019	GBPCAD	3:30:00 PM	1.70527	1.70334			N/A
5/31/2019	GBPCAD.fx	9:30:00 AM	1.70777	1.70684			N/A
5/31/2019	GBPCAD.fx	11:30:00 AM	1.70873	1.70864			N/A
5/31/2019	GBPCAD.fx	1:30:00 PM	1.70648	1.70625			N/A
5/31/2019	GBPCAD.fx	3:30:00 PM	1.70562	1.70296			N/A
5/31/2019	GBPCHF	9:30:00 AM	1.26824	1.26815			N/A
5/31/2019	GBPCHF	11:30:00 AM	1.26958	1.26992			N/A
5/31/2019	GBPCHF	1:30:00 PM	1.26387	1.26413			N/A
5/31/2019	GBPCHF	3:30:00 PM	1.26484	1.26498			N/A

5/31/2019	GBPCHF.fx	9:30:00 AM	1.26843	1.26796			N/A
5/31/2019	GBPCHF.fx	11:30:00 AM	1.26978	1.26972			N/A
5/31/2019	GBPCHF.fx	1:30:00 PM	1.2641	1.26393			N/A
5/31/2019	GBPCHF.fx	3:30:00 PM	1.26496	1.26478			N/A
5/31/2019	GBPCZK	9:30:00 AM	29.225	29.236			N/A
5/31/2019	GBPCZK	11:30:00 AM	29.221	29.243			N/A
5/31/2019	GBPCZK	1:30:00 PM	29.116	29.132			N/A
5/31/2019	GBPCZK	3:30:00 PM	29.09	29.098			N/A
5/31/2019	GBPDKK	9:30:00 AM	8.452	8.461			N/A
5/31/2019	GBPDKK	11:30:00 AM	8.451	8.462			N/A
5/31/2019	GBPDKK	1:30:00 PM	8.425	8.435			N/A
5/31/2019	GBPDKK	3:30:00 PM	8.418	8.429			N/A
5/31/2019	GBPDKK.fx	9:30:00 AM	8.4518	8.4612			N/A
5/31/2019	GBPDKK.fx	11:30:00 AM	8.4494	8.4626			N/A
5/31/2019	GBPDKK.fx	1:30:00 PM	8.4234	8.4351			N/A
5/31/2019	GBPDKK.fx	3:30:00 PM	8.4177	8.4292			N/A
5/31/2019	GBPHKD	9:30:00 AM	9.8885	9.8893			N/A
5/31/2019	GBPHKD	11:30:00 AM	9.8987	9.9046			N/A
5/31/2019	GBPHKD	1:30:00 PM	9.8671	9.8713			N/A
5/31/2019	GBPHKD	3:30:00 PM	9.859	9.8632			N/A
5/31/2019	GBPHUF	9:30:00 AM	367.55	367.89			N/A
5/31/2019	GBPHUF	11:30:00 AM	367.4	367.87			N/A
5/31/2019	GBPHUF	1:30:00 PM	365.91	366.19			N/A
5/31/2019	GBPHUF	3:30:00 PM	365.24	365.63			N/A
5/31/2019	GBPJPY	9:30:00 AM	137.354	137.325			N/A
5/31/2019	GBPJPY	11:30:00 AM	137.395	137.418			N/A
5/31/2019	GBPJPY	1:30:00 PM	136.883	136.894			N/A
5/31/2019	GBPJPY	3:30:00 PM	136.851	136.835			N/A
5/31/2019	GBPJPY.fx	9:30:00 AM	137.374	137.305			N/A
5/31/2019	GBPJPY.fx	11:30:00 AM	137.414	137.397			N/A
5/31/2019	GBPJPY.fx	1:30:00 PM	136.903	136.874			N/A
5/31/2019	GBPJPY.fx	3:30:00 PM	136.868	136.817			N/A
5/31/2019	GBPMXN	9:30:00 AM	24.6774	24.6742			N/A
5/31/2019	GBPMXN	11:30:00 AM	24.8013	24.8122			N/A

5/31/2019	GBPMXN	1:30:00 PM	24.8264	24.8213			N/A
5/31/2019	GBPMXN	3:30:00 PM	24.6535	24.6577			N/A
5/31/2019	GBPNOK	9:30:00 AM	11.0745	11.0814			N/A
5/31/2019	GBPNOK	11:30:00 AM	11.0734	11.0851			N/A
5/31/2019	GBPNOK	1:30:00 PM	11.0549	11.0648			N/A
5/31/2019	GBPNOK	3:30:00 PM	11.038	11.048			N/A
5/31/2019	GBPNOK.fx	9:30:00 AM	11.07924	11.07662			N/A
5/31/2019	GBPNOK.fx	11:30:00 AM	11.07831	11.08027			N/A
5/31/2019	GBPNOK.fx	1:30:00 PM	11.0602	11.05978			N/A
5/31/2019	GBPNOK.fx	3:30:00 PM	11.04268	11.04327			N/A
5/31/2019	GBPNZD	9:30:00 AM	1.93629	1.93647			N/A
5/31/2019	GBPNZD	11:30:00 AM	1.93493	1.9357			N/A
5/31/2019	GBPNZD	1:30:00 PM	1.93147	1.93171			N/A
5/31/2019	GBPNZD	3:30:00 PM	1.93261	1.9331			N/A
5/31/2019	GBPNZD.fx	9:30:00 AM	1.93668	1.9361			N/A
5/31/2019	GBPNZD.fx	11:30:00 AM	1.93527	1.93533			N/A
5/31/2019	GBPNZD.fx	1:30:00 PM	1.93185	1.93137			N/A
5/31/2019	GBPNZD.fx	3:30:00 PM	1.93294	1.93276			N/A
5/31/2019	GBPPLN	9:30:00 AM	4.8593	4.8587			N/A
5/31/2019	GBPPLN	11:30:00 AM	4.8552	4.8572			N/A
5/31/2019	GBPPLN	1:30:00 PM	4.8361	4.8373			N/A
5/31/2019	GBPPLN	3:30:00 PM	4.8316	4.8327			N/A
5/31/2019	GBPPLN.fx	9:30:00 AM	4.85712	4.86104			N/A
5/31/2019	GBPPLN.fx	11:30:00 AM	4.85306	4.85926			N/A
5/31/2019	GBPPLN.fx	1:30:00 PM	4.83396	4.83954			N/A
5/31/2019	GBPPLN.fx	3:30:00 PM	4.82956	4.83518			N/A
5/31/2019	GBPSEK	9:30:00 AM	12.0359	12.0402			N/A
5/31/2019	GBPSEK	11:30:00 AM	12.0549	12.0601			N/A
5/31/2019	GBPSEK	1:30:00 PM	12.0253	12.0316			N/A
5/31/2019	GBPSEK	3:30:00 PM	11.9943	12.0002			N/A
5/31/2019	GBPSEK.fx	9:30:00 AM	12.0322	12.04397			N/A
5/31/2019	GBPSEK.fx	11:30:00 AM	12.05124	12.06325			N/A
5/31/2019	GBPSEK.fx	1:30:00 PM	12.02169	12.03509			N/A
5/31/2019	GBPSEK.fx	3:30:00 PM	11.98822	12.00432			N/A

5/31/2019	GBPSGD	9:30:00 AM	1.7387	1.7386			N/A
5/31/2019	GBPSGD	11:30:00 AM	1.7381	1.7388			N/A
5/31/2019	GBPSGD	1:30:00 PM	1.7338	1.7341			N/A
5/31/2019	GBPSGD	3:30:00 PM	1.7339	1.7346			N/A
5/31/2019	GBPSGD.fx	9:30:00 AM	1.73683	1.74035			N/A
5/31/2019	GBPSGD.fx	11:30:00 AM	1.73621	1.74056			N/A
5/31/2019	GBPSGD.fx	1:30:00 PM	1.73196	1.73583			N/A
5/31/2019	GBPSGD.fx	3:30:00 PM	1.73205	1.73636			N/A
5/31/2019	GBPUSD	9:30:00 AM	1.26086	1.26025			N/A
5/31/2019	GBPUSD	11:30:00 AM	1.26263	1.26258			N/A
5/31/2019	GBPUSD	1:30:00 PM	1.25859	1.25842			N/A
5/31/2019	GBPUSD	3:30:00 PM	1.2579	1.2577		2100	N/A
5/31/2019	GBPUSD.fx	9:30:00 AM	1.26092	1.26019			N/A
5/31/2019	GBPUSD.fx	11:30:00 AM	1.26269	1.26252			N/A
5/31/2019	GBPUSD.fx	1:30:00 PM	1.25865	1.25837			N/A
5/31/2019	GBPUSD.fx	3:30:00 PM	1.25793	1.25765			N/A
5/31/2019	GBPZAR	9:30:00 AM	18.632	18.6507			N/A
5/31/2019	GBPZAR	11:30:00 AM	18.6195	18.6487			N/A
5/31/2019	GBPZAR	1:30:00 PM	18.5793	18.5952			N/A
5/31/2019	GBPZAR	3:30:00 PM	18.4506	18.4728			N/A
5/31/2019	GBPZAR.fx	9:30:00 AM	18.6388	18.6434			N/A
5/31/2019	GBPZAR.fx	11:30:00 AM	18.6263	18.6415			N/A
5/31/2019	GBPZAR.fx	1:30:00 PM	18.5866	18.5878			N/A
5/31/2019	GBPZAR.fx	3:30:00 PM	18.4565	18.4669			N/A
5/31/2019	GOLD	9:30:00 AM	1292.85	1293.04			N/A
5/31/2019	GOLD	11:30:00 AM	1294.71	1294.58			N/A
5/31/2019	GOLD	1:30:00 PM	1298.44	1298.31			N/A
5/31/2019	GOLD	3:30:00 PM	1297.81	1297.41			N/A
5/31/2019	HKDJPY	9:30:00 AM	13.89	13.89			N/A
5/31/2019	HKDJPY	11:30:00 AM	13.87	13.88			N/A
5/31/2019	HKDJPY	1:30:00 PM	13.87	13.88			N/A
5/31/2019	HKDJPY	3:30:00 PM	13.87	13.88			N/A
5/31/2019	HKDJPY.fx	9:30:00 AM	13.88	13.887			N/A
5/31/2019	HKDJPY.fx	11:30:00 AM	13.87	13.876			N/A

5/31/2019	HKDJPY.fx	1:30:00 PM	13.863	13.869			N/A
5/31/2019	HKDJPY.fx	3:30:00 PM	13.872	13.87			N/A
5/31/2019	HUFJPY	9:30:00 AM	0.3735	0.3738			N/A
5/31/2019	HUFJPY	11:30:00 AM	0.3739	0.3742			N/A
5/31/2019	HUFJPY	1:30:00 PM	0.374	0.3743			N/A
5/31/2019	HUFJPY	3:30:00 PM	0.3744	0.3747			N/A
5/31/2019	JP225.i	9:30:00 AM	20552.96	20567.96			N/A
5/31/2019	JP225.i	11:30:00 AM	20497.96	20502.96			N/A
5/31/2019	JP225.i	1:30:00 PM	20417.96	20427.96			N/A
5/31/2019	JP225.i	3:30:00 PM	20402.96	20402.96			N/A
5/31/2019	MXNJPY	9:30:00 AM	5.56	5.57			N/A
5/31/2019	MXNJPY	11:30:00 AM	5.54	5.55			N/A
5/31/2019	MXNJPY	1:30:00 PM	5.51	5.52			N/A
5/31/2019	MXNJPY	3:30:00 PM	5.55	5.55			N/A
5/31/2019	NASDAQ.i	9:30:00 AM					N/A
5/31/2019	NASDAQ.i	11:30:00 AM					N/A
5/31/2019	NASDAQ.i	1:30:00 PM					N/A
5/31/2019	NASDAQ.i	3:30:00 PM					N/A
5/31/2019	NOKJPY	9:30:00 AM	12.39	12.42			N/A
5/31/2019	NOKJPY	11:30:00 AM	12.38	12.42			N/A
5/31/2019	NOKJPY	1:30:00 PM	12.36	12.4			N/A
5/31/2019	NOKJPY	3:30:00 PM	12.38	12.41			N/A
5/31/2019	NOKJPY.fx	9:30:00 AM	12.394	12.401			N/A
5/31/2019	NOKJPY.fx	11:30:00 AM	12.399	12.405			N/A
5/31/2019	NOKJPY.fx	1:30:00 PM	12.375	12.379			N/A
5/31/2019	NOKJPY.fx	3:30:00 PM	12.39	12.393			N/A
5/31/2019	NZDCAD	9:30:00 AM	0.88141	0.882			N/A
5/31/2019	NZDCAD	11:30:00 AM	0.88257	0.88319			N/A
5/31/2019	NZDCAD	1:30:00 PM	0.88319	0.88373			N/A
5/31/2019	NZDCAD	3:30:00 PM	0.88213	0.88139			N/A
5/31/2019	NZDCAD.fx	9:30:00 AM	0.88175	0.88166			N/A
5/31/2019	NZDCAD.fx	11:30:00 AM	0.88292	0.88285			N/A
5/31/2019	NZDCAD.fx	1:30:00 PM	0.88354	0.88339			N/A
5/31/2019	NZDCAD.fx	3:30:00 PM	0.88242	0.88121			N/A

5/31/2019	NZDCHF	9:30:00 AM	0.65457	0.65525			N/A
5/31/2019	NZDCHF	11:30:00 AM	0.65573	0.65639			N/A
5/31/2019	NZDCHF	1:30:00 PM	0.65409	0.65467			N/A
5/31/2019	NZDCHF	3:30:00 PM	0.65411	0.65467			N/A
5/31/2019	NZDCHF.fx	9:30:00 AM	0.6549	0.6549			N/A
5/31/2019	NZDCHF.fx	11:30:00 AM	0.65607	0.65603			N/A
5/31/2019	NZDCHF.fx	1:30:00 PM	0.65443	0.65432			N/A
5/31/2019	NZDCHF.fx	3:30:00 PM	0.65443	0.65433			N/A
5/31/2019	NZDCZK	9:30:00 AM	15.09	15.101			N/A
5/31/2019	NZDCZK	11:30:00 AM					N/A
5/31/2019	NZDCZK	1:30:00 PM	15.073	15.082			N/A
5/31/2019	NZDCZK	3:30:00 PM	15.05	15.056			N/A
5/31/2019	NZDDKK	9:30:00 AM	4.365	4.369			N/A
5/31/2019	NZDDKK	11:30:00 AM	4.368	4.371			N/A
5/31/2019	NZDDKK	1:30:00 PM	4.362	4.365			N/A
5/31/2019	NZDDKK	3:30:00 PM					N/A
5/31/2019	NZDHKD	9:30:00 AM	5.1046	5.1075			N/A
5/31/2019	NZDHKD	11:30:00 AM	5.1147	5.1176			N/A
5/31/2019	NZDHKD	1:30:00 PM	5.1085	5.1106			N/A
5/31/2019	NZDHKD	3:30:00 PM	5.101	5.1038			N/A
5/31/2019	NZDHUF	9:30:00 AM	189.77	189.98			N/A
5/31/2019	NZDHUF	11:30:00 AM	189.82	190.09			N/A
5/31/2019	NZDHUF	1:30:00 PM	189.4	189.62			N/A
5/31/2019	NZDHUF	3:30:00 PM	188.94	189.19			N/A
5/31/2019	NZDJPY	9:30:00 AM	70.893	70.951			N/A
5/31/2019	NZDJPY	11:30:00 AM	70.97	71.025			N/A
5/31/2019	NZDJPY	1:30:00 PM	70.838	70.896			N/A
5/31/2019	NZDJPY	3:30:00 PM	70.78	70.815			N/A
5/31/2019	NZDJPY.fx	9:30:00 AM	70.924	70.919			N/A
5/31/2019	NZDJPY.fx	11:30:00 AM	71	70.993			N/A
5/31/2019	NZDJPY.fx	1:30:00 PM	70.87	70.864			N/A
5/31/2019	NZDJPY.fx	3:30:00 PM	70.811	70.784			N/A
5/31/2019	NZDMXN	9:30:00 AM	12.7405	12.7421			N/A
5/31/2019	NZDMXN	11:30:00 AM	12.8149	12.8182			N/A

5/31/2019	NZDMXN	1:30:00 PM	12.8518	12.8482			N/A
5/31/2019	NZDMXN	3:30:00 PM	12.7552	12.7553			N/A
5/31/2019	NZDNOK	9:30:00 AM	5.7165	5.7188			N/A
5/31/2019	NZDNOK	11:30:00 AM	5.7204	5.7242			N/A
5/31/2019	NZDNOK	1:30:00 PM	5.7222	5.7254			N/A
5/31/2019	NZDNOK	3:30:00 PM	5.7074	5.7106			N/A
5/31/2019	NZDPLN	9:30:00 AM	2.5077	2.5092			N/A
5/31/2019	NZDPLN	11:30:00 AM	2.5081	2.5094			N/A
5/31/2019	NZDPLN	1:30:00 PM	2.5027	2.5038			N/A
5/31/2019	NZDPLN	3:30:00 PM	2.498	2.4988			N/A
5/31/2019	NZDSEK	9:30:00 AM	6.2111	6.218			N/A
5/31/2019	NZDSEK	11:30:00 AM	6.2256	6.231			N/A
5/31/2019	NZDSEK	1:30:00 PM	6.2218	6.2278			N/A
5/31/2019	NZDSEK	3:30:00 PM	6.2015	6.2066			N/A
5/31/2019	NZDSGD	9:30:00 AM	0.8977	0.8982			N/A
5/31/2019	NZDSGD	11:30:00 AM	0.898	0.8986			N/A
5/31/2019	NZDSGD	1:30:00 PM	0.8974	0.898			N/A
5/31/2019	NZDSGD	3:30:00 PM	0.8971	0.8977			N/A
5/31/2019	NZDSGD.fx	9:30:00 AM	0.89768	0.89815			N/A
5/31/2019	NZDSGD.fx	11:30:00 AM	0.898	0.89855			N/A
5/31/2019	NZDSGD.fx	1:30:00 PM	0.89738	0.8979			N/A
5/31/2019	NZDSGD.fx	3:30:00 PM	0.89701	0.89762			N/A
5/31/2019	NZDUSD	9:30:00 AM	0.65095	0.65099			N/A
5/31/2019	NZDUSD	11:30:00 AM	0.65238	0.65241			N/A
5/31/2019	NZDUSD	1:30:00 PM	0.65156	0.65155			N/A
5/31/2019	NZDUSD	3:30:00 PM	0.65075	0.6508			N/A
5/31/2019	NZDUSD.fx	9:30:00 AM	0.65103	0.65101			N/A
5/31/2019	NZDUSD.fx	11:30:00 AM	0.65245	0.65242			N/A
5/31/2019	NZDUSD.fx	1:30:00 PM	0.65164	0.65156			N/A
5/31/2019	NZDUSD.fx	3:30:00 PM	0.65082	0.65082			N/A
5/31/2019	NZDZAR	9:30:00 AM	9.6117	9.6272			N/A
5/31/2019	NZDZAR	11:30:00 AM	9.6152	9.632			N/A
5/31/2019	NZDZAR	1:30:00 PM	9.6113	9.6235			N/A
5/31/2019	NZDZAR	3:30:00 PM	9.5367	9.5504			N/A

5/31/2019	SEKJPY	9:30:00 AM	11.41	11.42			N/A
5/31/2019	SEKJPY	11:30:00 AM	11.4	11.41			N/A
5/31/2019	SEKJPY	1:30:00 PM	11.39	11.39			N/A
5/31/2019	SEKJPY	3:30:00 PM	11.41	11.41			N/A
5/31/2019	SEKJPY.fx	9:30:00 AM	11.399	11.418			N/A
5/31/2019	SEKJPY.fx	11:30:00 AM	11.389	11.404			N/A
5/31/2019	SEKJPY.fx	1:30:00 PM	11.373	11.388			N/A
5/31/2019	SEKJPY.fx	3:30:00 PM	11.4	11.414			N/A
5/31/2019	SGDJPY	9:30:00 AM	78.96	78.99			N/A
5/31/2019	SGDJPY	11:30:00 AM	79.01	79.04			N/A
5/31/2019	SGDJPY	1:30:00 PM	78.93	78.94			N/A
5/31/2019	SGDJPY	3:30:00 PM	78.89	78.88			N/A
5/31/2019	SILVER	9:30:00 AM	14.32	14.7			N/A
5/31/2019	SILVER	11:30:00 AM	14.34	14.71			N/A
5/31/2019	SILVER	1:30:00 PM	14.34	14.72			N/A
5/31/2019	SILVER	3:30:00 PM	14.32	14.69			N/A
5/31/2019	SPX500.i	9:30:00 AM	2765.31	2766.32			N/A
5/31/2019	SPX500.i	11:30:00 AM	2762.77	2763.07			N/A
5/31/2019	SPX500.i	1:30:00 PM	2756.27	2756.67			N/A
5/31/2019	SPX500.i	3:30:00 PM	2758.02	2757.57			N/A
5/31/2019	UK100.i	9:30:00 AM	7179.49	7179.24			N/A
5/31/2019	UK100.i	11:30:00 AM	7150.24	7148.99			N/A
5/31/2019	UK100.i	1:30:00 PM	7146.57	7146.99			N/A
5/31/2019	UK100.i	3:30:00 PM	7140.49	7139.91			N/A
5/31/2019	USDCAD	9:30:00 AM	1.35434	1.3545			N/A
5/31/2019	USDCAD	11:30:00 AM	1.35333	1.3533			N/A
5/31/2019	USDCAD	1:30:00 PM	1.35582	1.35587			N/A
5/31/2019	USDCAD	3:30:00 PM	1.35591	1.35388	30000	30000	N/A
5/31/2019	USDCAD.fx	9:30:00 AM	1.35437	1.35446			N/A
5/31/2019	USDCAD.fx	11:30:00 AM	1.35336	1.35326			N/A
5/31/2019	USDCAD.fx	1:30:00 PM	1.35585	1.35581			N/A
5/31/2019	USDCAD.fx	3:30:00 PM	1.35591	1.35404			N/A
5/31/2019	USDCHF	9:30:00 AM	1.00604	1.00609			N/A
5/31/2019	USDCHF	11:30:00 AM	1.00562	1.00562			N/A

5/31/2019	USDCHF	1:30:00 PM	1.0043	1.00442			N/A
5/31/2019	USDCHF	3:30:00 PM	1.00574	1.00556			N/A
5/31/2019	USDCHF.fx	9:30:00 AM	1.00608	1.00603			N/A
5/31/2019	USDCHF.fx	11:30:00 AM	1.00566	1.00555			N/A
5/31/2019	USDCHF.fx	1:30:00 PM	1.00435	1.00436			N/A
5/31/2019	USDCHF.fx	3:30:00 PM	1.00577	1.00552			N/A
5/31/2019	USDCZK	9:30:00 AM	23.198	23.214			N/A
5/31/2019	USDCZK	11:30:00 AM	23.162	23.183			N/A
5/31/2019	USDCZK	1:30:00 PM	23.15	23.169			N/A
5/31/2019	USDCZK	3:30:00 PM	23.147	23.163			N/A
5/31/2019	USDCZK.fx	9:30:00 AM	23.206	23.2117			N/A
5/31/2019	USDCZK.fx	11:30:00 AM	23.17	23.1748			N/A
5/31/2019	USDCZK.fx	1:30:00 PM	23.159	23.1593			N/A
5/31/2019	USDCZK.fx	3:30:00 PM	23.1549	23.1572			N/A
5/31/2019	USDDKK	9:30:00 AM	6.7073	6.711			N/A
5/31/2019	USDDKK	11:30:00 AM	6.6964	6.6995			N/A
5/31/2019	USDDKK	1:30:00 PM	6.6966	6.6999			N/A
5/31/2019	USDDKK	3:30:00 PM	6.6969	6.6983			N/A
5/31/2019	USDDKK.fx	9:30:00 AM	6.70785	6.70902			N/A
5/31/2019	USDDKK.fx	11:30:00 AM	6.69695	6.69753			N/A
5/31/2019	USDDKK.fx	1:30:00 PM	6.69715	6.69763			N/A
5/31/2019	USDDKK.fx	3:30:00 PM	6.69714	6.6962			N/A
5/31/2019	USDHKD	9:30:00 AM	7.8464	7.8466			N/A
5/31/2019	USDHKD	11:30:00 AM	7.844	7.8441			N/A
5/31/2019	USDHKD	1:30:00 PM	7.8435	7.8437			N/A
5/31/2019	USDHKD	3:30:00 PM	7.8426	7.8427			N/A
5/31/2019	USDHKD.fx	9:30:00 AM	7.8463	7.84688			N/A
5/31/2019	USDHKD.fx	11:30:00 AM	7.84402	7.84411			N/A
5/31/2019	USDHKD.fx	1:30:00 PM	7.84349	7.84398			N/A
5/31/2019	USDHKD.fx	3:30:00 PM	7.84254	7.84297			N/A
5/31/2019	USDHUF	9:30:00 AM	291.66	292.1			N/A
5/31/2019	USDHUF	11:30:00 AM	291.09	291.54			N/A
5/31/2019	USDHUF	1:30:00 PM	290.83	291.14			N/A
5/31/2019	USDHUF	3:30:00 PM	290.61	290.98			N/A

5/31/2019	USDHUF.fx	9:30:00 AM	291.847	291.928			N/A
5/31/2019	USDHUF.fx	11:30:00 AM	291.284	291.332			N/A
5/31/2019	USDHUF.fx	1:30:00 PM	291.027	290.946			N/A
5/31/2019	USDHUF.fx	3:30:00 PM	290.814	290.789			N/A
5/31/2019	USDINR	9:30:00 AM	64.81	74.78			N/A
5/31/2019	USDINR	11:30:00 AM	64.87	74.85			N/A
5/31/2019	USDINR	1:30:00 PM					N/A
5/31/2019	USDINR	3:30:00 PM					N/A
5/31/2019	USDJPY	9:30:00 AM	108.944	108.953			N/A
5/31/2019	USDJPY	11:30:00 AM	108.824	108.83	800	800	N/A
5/31/2019	USDJPY	1:30:00 PM	108.768	108.775			N/A
5/31/2019	USDJPY	3:30:00 PM	108.825	108.764			N/A
5/31/2019	USDJPY.fx	9:30:00 AM	108.95	108.945			N/A
5/31/2019	USDJPY.fx	11:30:00 AM	108.83	108.823			N/A
5/31/2019	USDJPY.fx	1:30:00 PM	108.774	108.767			N/A
5/31/2019	USDJPY.fx	3:30:00 PM	108.83	108.758			N/A
5/31/2019	USDMXN	9:30:00 AM	19.578	19.581			N/A
5/31/2019	USDMXN	11:30:00 AM	19.653	19.654			N/A
5/31/2019	USDMXN	1:30:00 PM	19.735	19.725			N/A
5/31/2019	USDMXN	3:30:00 PM	19.61	19.609			N/A
5/31/2019	USDMXN.fx	9:30:00 AM	19.5825	19.5782			N/A
5/31/2019	USDMXN.fx	11:30:00 AM	19.6548	19.6518			N/A
5/31/2019	USDMXN.fx	1:30:00 PM	19.7388	19.7216			N/A
5/31/2019	USDMXN.fx	3:30:00 PM	19.6129	19.6056			N/A
5/31/2019	USDNOK	9:30:00 AM	8.7842	8.7925			N/A
5/31/2019	USDNOK	11:30:00 AM	8.7714	8.7787			N/A
5/31/2019	USDNOK	1:30:00 PM	8.7846	8.7914			N/A
5/31/2019	USDNOK	3:30:00 PM	8.7764	8.7827			N/A
5/31/2019	USDNOK.fx	9:30:00 AM	8.78809	8.78815			N/A
5/31/2019	USDNOK.fx	11:30:00 AM	8.77526	8.77414			N/A
5/31/2019	USDNOK.fx	1:30:00 PM	8.78853	8.78675			N/A
5/31/2019	USDNOK.fx	3:30:00 PM	8.78019	8.77851			N/A
5/31/2019	USDPLN	9:30:00 AM	3.8541	3.8554			N/A
5/31/2019	USDPLN	11:30:00 AM	3.8456	3.8468			N/A

5/31/2019	USDPLN	1:30:00 PM	3.8425	3.8434			N/A
5/31/2019	USDPLN	3:30:00 PM	3.8415	3.8418			N/A
5/31/2019	USDPLN.fx	9:30:00 AM	3.85326	3.85614			N/A
5/31/2019	USDPLN.fx	11:30:00 AM	3.84477	3.84751			N/A
5/31/2019	USDPLN.fx	1:30:00 PM	3.84176	3.84411			N/A
5/31/2019	USDPLN.fx	3:30:00 PM	3.84067	3.84291			N/A
5/31/2019	USDRUB	9:30:00 AM					N/A
5/31/2019	USDRUB	11:30:00 AM	65.202	65.59			N/A
5/31/2019	USDRUB	1:30:00 PM	65.317	65.691			N/A
5/31/2019	USDRUB	3:30:00 PM	65.124	65.493			N/A
5/31/2019	USDSEK	9:30:00 AM	9.5471	9.5512			N/A
5/31/2019	USDSEK	11:30:00 AM	9.5482	9.55			N/A
5/31/2019	USDSEK	1:30:00 PM	9.5557	9.5573			N/A
5/31/2019	USDSEK	3:30:00 PM	9.5352	9.5378			N/A
5/31/2019	USDSEK.fx	9:30:00 AM	9.54979	9.54941			N/A
5/31/2019	USDSEK.fx	11:30:00 AM	9.55091	9.54779			N/A
5/31/2019	USDSEK.fx	1:30:00 PM	9.55814	9.55526			N/A
5/31/2019	USDSEK.fx	3:30:00 PM	9.53791	9.53621			N/A
5/31/2019	USDSGD	9:30:00 AM	1.3791	1.3793			N/A
5/31/2019	USDSGD	11:30:00 AM	1.3767	1.3769			N/A
5/31/2019	USDSGD	1:30:00 PM	1.3776	1.3777			N/A
5/31/2019	USDSGD	3:30:00 PM	1.3787	1.3789			N/A
5/31/2019	USDSGD.fx	9:30:00 AM	1.37896	1.37946			N/A
5/31/2019	USDSGD.fx	11:30:00 AM	1.37662	1.37704			N/A
5/31/2019	USDSGD.fx	1:30:00 PM	1.37756	1.37773			N/A
5/31/2019	USDSGD.fx	3:30:00 PM	1.37859	1.379			N/A
5/31/2019	USDZAR	9:30:00 AM	14.7784	14.7941			N/A
5/31/2019	USDZAR	11:30:00 AM	14.7504	14.7683			N/A
5/31/2019	USDZAR	1:30:00 PM	14.7642	14.7727			N/A
5/31/2019	USDZAR	3:30:00 PM	14.6725	14.6809			N/A
5/31/2019	USDZAR.fx	9:30:00 AM	14.78367	14.78822			N/A
5/31/2019	USDZAR.fx	11:30:00 AM	14.75631	14.76206			N/A
5/31/2019	USDZAR.fx	1:30:00 PM	14.77019	14.76652			N/A
5/31/2019	USDZAR.fx	3:30:00 PM	14.67847	14.67763			N/A

5/31/2019	XAUUSD	9:30:00 AM	1292.86	1293.03			N/A
5/31/2019	XAUUSD	11:30:00 AM	1294.71	1294.58			N/A
5/31/2019	XAUUSD	1:30:00 PM	1298.47	1298.3			N/A
5/31/2019	XAUUSD	3:30:00 PM	1297.86	1297.41			N/A
5/31/2019	ZARJPY	9:30:00 AM	7.35	7.37			N/A
5/31/2019	ZARJPY	11:30:00 AM	7.36	7.38			N/A
5/31/2019	ZARJPY	1:30:00 PM	7.35	7.37			N/A
5/31/2019	ZARJPY	3:30:00 PM	7.4	7.41			N/A
5/31/2019	ZARJPY.fx	9:30:00 AM	7.366	7.369			N/A
5/31/2019	ZARJPY.fx	11:30:00 AM	7.371	7.375			N/A
5/31/2019	ZARJPY.fx	1:30:00 PM	7.365	7.365			N/A
5/31/2019	ZARJPY.fx	3:30:00 PM	7.412	7.41			N/A
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6/3/2019	#BIDU	11:30:00 AM					N/A
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6/3/2019	#Bitcoin	11:30:00 AM	8474.7	8507.2			N/A
6/3/2019	#Bitcoin	1:30:00 PM	8495.6	8517.55			N/A
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6/3/2019	#CL.f	11:30:00 AM	53.044	52.923			N/A
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6/3/2019	#CL.f	3:30:00 PM	54.444	54.456			N/A
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6/3/2019	#Ethereum	9:30:00 AM	265.07	266.51			N/A
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6/3/2019	#KHC	3:30:00 PM					N/A
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6/3/2019	#Litecoin	11:30:00 AM	111.89	112.29			N/A
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6/3/2019	#Litecoin	3:30:00 PM	112.46	112.91			N/A
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6/3/2019	#MU	3:30:00 PM					N/A
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6/3/2019	#NFLX	1:30:00 PM					N/A
6/3/2019	#NFLX	3:30:00 PM					N/A
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6/3/2019	#NG.f	11:30:00 AM	2.454	2.473			N/A

6/3/2019	#NG.f	1:30:00 PM	2.428	2.447			N/A
6/3/2019	#NG.f	3:30:00 PM	2.432	2.45			N/A
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6/3/2019	#NKE	11:30:00 AM					N/A
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6/3/2019	#NOK	1:30:00 PM					N/A
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6/3/2019	#TRI	1:30:00 PM					N/A
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6/3/2019	#TSCO	3:30:00 PM					N/A
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6/3/2019	#YHOO	1:30:00 PM					N/A
6/3/2019	#YHOO	3:30:00 PM					N/A
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6/3/2019	#ZNGA	1:30:00 PM					N/A
6/3/2019	#ZNGA	3:30:00 PM					N/A
6/3/2019	AUDCAD	9:30:00 AM	0.93733	0.93797			N/A
6/3/2019	AUDCAD	11:30:00 AM	0.93874	0.93929			N/A
6/3/2019	AUDCAD	1:30:00 PM	0.93852	0.93917			N/A
6/3/2019	AUDCAD	3:30:00 PM	0.93903	0.93964			N/A
6/3/2019	AUDCAD.fx	9:30:00 AM	0.93766	0.93763			N/A
6/3/2019	AUDCAD.fx	11:30:00 AM	0.93908	0.93891			N/A
6/3/2019	AUDCAD.fx	1:30:00 PM	0.93885	0.93882			N/A
6/3/2019	AUDCAD.fx	3:30:00 PM	0.93937	0.93928			N/A
6/3/2019	AUDCHF	9:30:00 AM	0.69323	0.69393			N/A
6/3/2019	AUDCHF	11:30:00 AM	0.69236	0.6928			N/A
6/3/2019	AUDCHF	1:30:00 PM	0.69483	0.69549			N/A
6/3/2019	AUDCHF	3:30:00 PM	0.69395	0.69455			N/A
6/3/2019	AUDCHF.fx	9:30:00 AM	0.69358	0.69358			N/A
6/3/2019	AUDCHF.fx	11:30:00 AM	0.6927	0.69245			N/A
6/3/2019	AUDCHF.fx	1:30:00 PM	0.69519	0.69514			N/A
6/3/2019	AUDCHF.fx	3:30:00 PM	0.6943	0.69419			N/A
6/3/2019	AUDCZK	9:30:00 AM	16.055	16.07			N/A
6/3/2019	AUDCZK	11:30:00 AM	16.056	16.07			N/A
6/3/2019	AUDCZK	1:30:00 PM	16.051	16.067			N/A
6/3/2019	AUDCZK	3:30:00 PM	16.039	16.055			N/A

6/3/2019	AUDDKK	9:30:00 AM	4.6401	4.6446			N/A
6/3/2019	AUDDKK	11:30:00 AM	4.6409	4.6449			N/A
6/3/2019	AUDDKK	1:30:00 PM	4.6435	4.6478			N/A
6/3/2019	AUDDKK	3:30:00 PM	4.6409	4.6451			N/A
6/3/2019	AUDHKD	9:30:00 AM	5.4395	5.4434			N/A
6/3/2019	AUDHKD	11:30:00 AM	5.4398	5.4432			N/A
6/3/2019	AUDHKD	1:30:00 PM	5.4471	5.4507			N/A
6/3/2019	AUDHKD	3:30:00 PM	5.4522	5.4561			N/A
6/3/2019	AUDHUF	9:30:00 AM	201.85	201.97			N/A
6/3/2019	AUDHUF	11:30:00 AM	201.46	201.67			N/A
6/3/2019	AUDHUF	1:30:00 PM	201.53	201.74			N/A
6/3/2019	AUDHUF	3:30:00 PM	201.02	201.22			N/A
6/3/2019	AUDJPY	9:30:00 AM	75.158	75.219			N/A
6/3/2019	AUDJPY	11:30:00 AM	75.17	75.214			N/A
6/3/2019	AUDJPY	1:30:00 PM	75.322	75.391			N/A
6/3/2019	AUDJPY	3:30:00 PM	75.345	75.414			N/A
6/3/2019	AUDJPY.fx	9:30:00 AM	75.192	75.184			N/A
6/3/2019	AUDJPY.fx	11:30:00 AM	75.204	75.178			N/A
6/3/2019	AUDJPY.fx	1:30:00 PM	75.357	75.352			N/A
6/3/2019	AUDJPY.fx	3:30:00 PM	75.379	75.378			N/A
6/3/2019	AUDMXN	9:30:00 AM	13.6324	13.6419			N/A
6/3/2019	AUDMXN	11:30:00 AM	13.6295	13.6364			N/A
6/3/2019	AUDMXN	1:30:00 PM	13.6471	13.6536			N/A
6/3/2019	AUDMXN	3:30:00 PM	13.7356	13.7401			N/A
6/3/2019	AUDNOK	9:30:00 AM	6.0791	6.0782			N/A
6/3/2019	AUDNOK	11:30:00 AM	6.0833	6.0874			N/A
6/3/2019	AUDNOK	1:30:00 PM	6.0776	6.0824			N/A
6/3/2019	AUDNOK	3:30:00 PM	6.0703	6.0735			N/A
6/3/2019	AUDNOK.f	9:30:00 AM	6.0787	6.0767			N/A
6/3/2019	AUDNOK.f	11:30:00 AM	6.0849	6.0857			N/A
6/3/2019	AUDNOK.f	1:30:00 PM	6.0792	6.0806			N/A
6/3/2019	AUDNOK.f	3:30:00 PM	6.0719	6.0716			N/A
6/3/2019	AUDNZD	9:30:00 AM	1.06057	1.06142			N/A
6/3/2019	AUDNZD	11:30:00 AM	1.05945	1.06025			N/A

6/3/2019	AUDNZD	1:30:00 PM	1.05921	1.06005			N/A
6/3/2019	AUDNZD	3:30:00 PM	1.05945	1.06033			N/A
6/3/2019	AUDNZD.fx	9:30:00 AM	1.06102	1.06098			N/A
6/3/2019	AUDNZD.fx	11:30:00 AM	1.05989	1.05978			N/A
6/3/2019	AUDNZD.fx	1:30:00 PM	1.05965	1.05959			N/A
6/3/2019	AUDNZD.fx	3:30:00 PM	1.0599	1.05988			N/A
6/3/2019	AUDPLN	9:30:00 AM	2.6609	2.6641			N/A
6/3/2019	AUDPLN	11:30:00 AM	2.6613	2.664			N/A
6/3/2019	AUDPLN	1:30:00 PM	2.6623	2.6653			N/A
6/3/2019	AUDPLN	3:30:00 PM	2.6616	2.6646			N/A
6/3/2019	AUDSEK	9:30:00 AM	6.5892	6.5893			N/A
6/3/2019	AUDSEK	11:30:00 AM	6.5946	6.5961			N/A
6/3/2019	AUDSEK	1:30:00 PM	6.5944	6.5972			N/A
6/3/2019	AUDSEK	3:30:00 PM	6.5931	6.5939			N/A
6/3/2019	AUDSEK.fx	9:30:00 AM	6.584	6.5938			N/A
6/3/2019	AUDSEK.fx	11:30:00 AM	6.5901	6.6007			N/A
6/3/2019	AUDSEK.fx	1:30:00 PM	6.5899	6.6017			N/A
6/3/2019	AUDSEK.fx	3:30:00 PM	6.5885	6.5983			N/A
6/3/2019	AUDSGD	9:30:00 AM	0.9523	0.9526			N/A
6/3/2019	AUDSGD	11:30:00 AM	0.9525	0.9526			N/A
6/3/2019	AUDSGD	1:30:00 PM	0.953	0.9533			N/A
6/3/2019	AUDSGD	3:30:00 PM	0.9532	0.9535			N/A
6/3/2019	AUDSGD.fx	9:30:00 AM	0.95243	0.95248			N/A
6/3/2019	AUDSGD.fx	11:30:00 AM	0.95262	0.95249			N/A
6/3/2019	AUDSGD.fx	1:30:00 PM	0.95311	0.95323			N/A
6/3/2019	AUDSGD.fx	3:30:00 PM	0.95332	0.95337			N/A
6/3/2019	AUDUSD	9:30:00 AM	0.69443	0.6945			N/A
6/3/2019	AUDUSD	11:30:00 AM	0.69477	0.69466			N/A
6/3/2019	AUDUSD	1:30:00 PM	0.69555	0.69564			N/A
6/3/2019	AUDUSD	3:30:00 PM	0.69612	0.69622			N/A
6/3/2019	AUDUSD.fx	9:30:00 AM	0.69448	0.69444			N/A
6/3/2019	AUDUSD.fx	11:30:00 AM	0.69482	0.6946			N/A
6/3/2019	AUDUSD.fx	1:30:00 PM	0.6956	0.69558			N/A
6/3/2019	AUDUSD.fx	3:30:00 PM	0.69618	0.69616			N/A

6/3/2019	AUDZAR	9:30:00 AM	10.1167	10.1309			N/A
6/3/2019	AUDZAR	11:30:00 AM	10.1122	10.1251			N/A
6/3/2019	AUDZAR	1:30:00 PM	10.0939	10.1081			N/A
6/3/2019	AUDZAR	3:30:00 PM	10.0965	10.1095			N/A
6/3/2019	AUS200.i	9:30:00 AM	6308.57	6312.97			N/A
6/3/2019	AUS200.i	11:30:00 AM	6302.87	6304.67			N/A
6/3/2019	AUS200.i	1:30:00 PM	6316.67	6319.67			N/A
6/3/2019	AUS200.i	3:30:00 PM	6315.67	6319.67			N/A
6/3/2019	BCHUSD	9:30:00 AM	449.82	450.21			N/A
6/3/2019	BCHUSD	11:30:00 AM	439.9	441.29			N/A
6/3/2019	BCHUSD	1:30:00 PM	443.64	445.2			N/A
6/3/2019	BCHUSD	3:30:00 PM	441.61	443.04			N/A
6/3/2019	CADCHF	9:30:00 AM	0.73937	0.74008			N/A
6/3/2019	CADCHF	11:30:00 AM	0.73729	0.73779			N/A
6/3/2019	CADCHF	1:30:00 PM	0.74011	0.7408			N/A
6/3/2019	CADCHF	3:30:00 PM	0.73885	0.73929			N/A
6/3/2019	CADCHF.fx	9:30:00 AM	0.73971	0.73973			N/A
6/3/2019	CADCHF.fx	11:30:00 AM	0.73763	0.73743			N/A
6/3/2019	CADCHF.fx	1:30:00 PM	0.74045	0.74045			N/A
6/3/2019	CADCHF.fx	3:30:00 PM	0.7392	0.73893			N/A
6/3/2019	CADCZK	9:30:00 AM	17.127	17.142			N/A
6/3/2019	CADCZK	11:30:00 AM	17.101	17.116			N/A
6/3/2019	CADCZK	1:30:00 PM	17.1	17.116			N/A
6/3/2019	CADCZK	3:30:00 PM	17.079	17.093			N/A
6/3/2019	CADDKK	9:30:00 AM	4.95	4.953			N/A
6/3/2019	CADDKK	11:30:00 AM	4.942	4.946			N/A
6/3/2019	CADDKK	1:30:00 PM	4.948	4.951			N/A
6/3/2019	CADDKK	3:30:00 PM	4.942	4.946			N/A
6/3/2019	CADHKD	9:30:00 AM	5.8031	5.807			N/A
6/3/2019	CADHKD	11:30:00 AM	5.7944	5.7981			N/A
6/3/2019	CADHKD	1:30:00 PM	5.8031	5.8067			N/A
6/3/2019	CADHKD	3:30:00 PM	5.805	5.8089			N/A
6/3/2019	CADHUF	9:30:00 AM	215.37	215.39			N/A
6/3/2019	CADHUF	11:30:00 AM	214.62	214.76			N/A

6/3/2019	CADHUF	1:30:00 PM	214.73	214.88			N/A
6/3/2019	CADHUF	3:30:00 PM	214.09	214.18			N/A
6/3/2019	CADJPY	9:30:00 AM	80.161	80.223			N/A
6/3/2019	CADJPY	11:30:00 AM	80.045	80.103			N/A
6/3/2019	CADJPY	1:30:00 PM	80.232	80.298			N/A
6/3/2019	CADJPY	3:30:00 PM	80.219	80.273			N/A
6/3/2019	CADJPY.fx	9:30:00 AM	80.195	80.189			N/A
6/3/2019	CADJPY.fx	11:30:00 AM	80.078	80.068			N/A
6/3/2019	CADJPY.fx	1:30:00 PM	80.265	80.263			N/A
6/3/2019	CADJPY.fx	3:30:00 PM	80.252	80.238			N/A
6/3/2019	CADMXN	9:30:00 AM	14.541	14.5533			N/A
6/3/2019	CADMXN	11:30:00 AM	14.5156	14.5268			N/A
6/3/2019	CADMXN	1:30:00 PM	14.5383	14.5468			N/A
6/3/2019	CADMXN	3:30:00 PM	14.6237	14.6318			N/A
6/3/2019	CADNOK	9:30:00 AM	6.4782	6.4789			N/A
6/3/2019	CADNOK	11:30:00 AM	6.4762	6.479			N/A
6/3/2019	CADNOK	1:30:00 PM	6.4727	6.477			N/A
6/3/2019	CADNOK	3:30:00 PM	6.4614	6.465			N/A
6/3/2019	CADPLN	9:30:00 AM	2.8382	2.8401			N/A
6/3/2019	CADPLN	11:30:00 AM	2.8347	2.8363			N/A
6/3/2019	CADPLN	1:30:00 PM	2.8363	2.8378			N/A
6/3/2019	CADPLN	3:30:00 PM	2.8336	2.8355			N/A
6/3/2019	CADSEK	9:30:00 AM	7.0251	7.0228			N/A
6/3/2019	CADSEK	11:30:00 AM	7.0202	7.0236			N/A
6/3/2019	CADSEK	1:30:00 PM	7.0226	7.0257			N/A
6/3/2019	CADSEK	3:30:00 PM	7.0175	7.0195			N/A
6/3/2019	CADSGD	9:30:00 AM	1.0152	1.0155			N/A
6/3/2019	CADSGD	11:30:00 AM	1.0139	1.0142			N/A
6/3/2019	CADSGD	1:30:00 PM	1.0146	1.0148			N/A
6/3/2019	CADSGD	3:30:00 PM	1.0145	1.0148			N/A
6/3/2019	CADZAR	9:30:00 AM	10.7914	10.8083			N/A
6/3/2019	CADZAR	11:30:00 AM	10.7699	10.7857			N/A
6/3/2019	CADZAR	1:30:00 PM	10.7531	10.7688			N/A
6/3/2019	CADZAR	3:30:00 PM	10.7504	10.7657			N/A

6/3/2019	CHFCZK	9:30:00 AM	23.157	23.172			N/A
6/3/2019	CHFCZK	11:30:00 AM	23.192	23.205			N/A
6/3/2019	CHFCZK	1:30:00 PM	23.098	23.115			N/A
6/3/2019	CHFCZK	3:30:00 PM	23.111	23.124			N/A
6/3/2019	CHFDKK	9:30:00 AM	6.692	6.694			N/A
6/3/2019	CHFDKK	11:30:00 AM	6.704	6.706			N/A
6/3/2019	CHFDKK	1:30:00 PM	6.682	6.685			N/A
6/3/2019	CHFDKK	3:30:00 PM	6.687	6.689			N/A
6/3/2019	CHFDKK.fx	9:30:00 AM	6.6909	6.6969			N/A
6/3/2019	CHFDKK.fx	11:30:00 AM	6.7023	6.7073			N/A
6/3/2019	CHFDKK.fx	1:30:00 PM	6.6806	6.6868			N/A
6/3/2019	CHFDKK.fx	3:30:00 PM	6.6856	6.6905			N/A
6/3/2019	CHFHKD	9:30:00 AM	7.8456	7.8495			N/A
6/3/2019	CHFHKD	11:30:00 AM	7.8574	7.861			N/A
6/3/2019	CHFHKD	1:30:00 PM	7.8384	7.8416			N/A
6/3/2019	CHFHKD	3:30:00 PM	7.8571	7.8585			N/A
6/3/2019	CHFHUF	9:30:00 AM	291.07	291.28			N/A
6/3/2019	CHFHUF	11:30:00 AM	290.94	291.29			N/A
6/3/2019	CHFHUF	1:30:00 PM	289.92	290.29			N/A
6/3/2019	CHFHUF	3:30:00 PM	289.57	289.92			N/A
6/3/2019	CHFJPY	9:30:00 AM	108.376	108.439			N/A
6/3/2019	CHFJPY	11:30:00 AM	108.544	108.6			N/A
6/3/2019	CHFJPY	1:30:00 PM	108.363	108.431			N/A
6/3/2019	CHFJPY	3:30:00 PM	108.546	108.603			N/A
6/3/2019	CHFJPY.fx	9:30:00 AM	108.409	108.406			N/A
6/3/2019	CHFJPY.fx	11:30:00 AM	108.578	108.565			N/A
6/3/2019	CHFJPY.fx	1:30:00 PM	108.396	108.396			N/A
6/3/2019	CHFJPY.fx	3:30:00 PM	108.579	108.569			N/A
6/3/2019	CHFMXN	9:30:00 AM	19.6583	19.6744			N/A
6/3/2019	CHFMXN	11:30:00 AM	19.683	19.6955			N/A
6/3/2019	CHFMXN	1:30:00 PM	19.6348	19.6467			N/A
6/3/2019	CHFMXN	3:30:00 PM	19.7905	19.795			N/A
6/3/2019	CHFNOK	9:30:00 AM	8.7647	8.7634			N/A
6/3/2019	CHFNOK	11:30:00 AM	8.7847	8.7889			N/A

6/3/2019	CHFNOK	1:30:00 PM	8.7417	8.7498			N/A
6/3/2019	CHFNOK	3:30:00 PM	8.7432	8.7474			N/A
6/3/2019	CHFNOK.fx	9:30:00 AM	8.76559	8.75996			N/A
6/3/2019	CHFNOK.fx	11:30:00 AM	8.78826	8.7854			N/A
6/3/2019	CHFNOK.fx	1:30:00 PM	8.7452	8.74629			N/A
6/3/2019	CHFNOK.fx	3:30:00 PM	8.74682	8.7438			N/A
6/3/2019	CHFPLN	9:30:00 AM	3.8372	3.8403			N/A
6/3/2019	CHFPLN	11:30:00 AM	3.8433	3.8459			N/A
6/3/2019	CHFPLN	1:30:00 PM	3.8305	3.8335			N/A
6/3/2019	CHFPLN	3:30:00 PM	3.8346	3.8371			N/A
6/3/2019	CHFPLN.fx	9:30:00 AM	3.8345	3.84275			N/A
6/3/2019	CHFPLN.fx	11:30:00 AM	3.84115	3.84803			N/A
6/3/2019	CHFPLN.fx	1:30:00 PM	3.82812	3.83583			N/A
6/3/2019	CHFPLN.fx	3:30:00 PM	3.83226	3.83943			N/A
6/3/2019	CHFSEK	9:30:00 AM	9.4981	9.4945			N/A
6/3/2019	CHFSEK	11:30:00 AM	9.5201	9.5235			N/A
6/3/2019	CHFSEK	1:30:00 PM	9.4845	9.4888			N/A
6/3/2019	CHFSEK	3:30:00 PM	9.4961	9.4955			N/A
6/3/2019	CHFSGD	9:30:00 AM	1.3731	1.3735			N/A
6/3/2019	CHFSGD	11:30:00 AM	1.3754	1.3756			N/A
6/3/2019	CHFSGD	1:30:00 PM	1.371	1.3714			N/A
6/3/2019	CHFSGD	3:30:00 PM	1.3732	1.3733			N/A
6/3/2019	CHFSGD.fx	9:30:00 AM	1.37325	1.37335			N/A
6/3/2019	CHFSGD.fx	11:30:00 AM	1.37561	1.37537			N/A
6/3/2019	CHFSGD.fx	1:30:00 PM	1.37125	1.37123			N/A
6/3/2019	CHFSGD.fx	3:30:00 PM	1.37345	1.37307			N/A
6/3/2019	CHFZAR	9:30:00 AM	14.5923	14.6072			N/A
6/3/2019	CHFZAR	11:30:00 AM	14.6077	14.6179			N/A
6/3/2019	CHFZAR	1:30:00 PM	14.5267	14.5405			N/A
6/3/2019	CHFZAR	3:30:00 PM	14.5505	14.5601			N/A
6/3/2019	CZKJPY	9:30:00 AM					N/A
6/3/2019	CZKJPY	11:30:00 AM	4.68	4.683			N/A
6/3/2019	CZKJPY	1:30:00 PM	4.691	4.694			N/A
6/3/2019	CZKJPY	3:30:00 PM	4.696	4.699			N/A

6/3/2019	DAX30.i	9:30:00 AM	11641.61	11636.61			N/A
6/3/2019	DAX30.i	11:30:00 AM	11664.86	11660.86			N/A
6/3/2019	DAX30.i	1:30:00 PM	11708.86	11708.61			N/A
6/3/2019	DAX30.i	3:30:00 PM	11702.61	11702.36			N/A
6/3/2019	DJ30.i	9:30:00 AM					N/A
6/3/2019	DJ30.i	11:30:00 AM					N/A
6/3/2019	DJ30.i	1:30:00 PM					N/A
6/3/2019	DJ30.i	3:30:00 PM					N/A
6/3/2019	DKKJPY	9:30:00 AM					N/A
6/3/2019	DKKJPY	11:30:00 AM					N/A
6/3/2019	DKKJPY	1:30:00 PM					N/A
6/3/2019	DKKJPY	3:30:00 PM					N/A
6/3/2019	EURAUD	9:30:00 AM	1.60769	1.60797			N/A
6/3/2019	EURAUD	11:30:00 AM	1.60759	1.60774			N/A
6/3/2019	EURAUD	1:30:00 PM	1.6066	1.60689			N/A
6/3/2019	EURAUD	3:30:00 PM	1.6075	1.60784			N/A
6/3/2019	EURAUD.fx	9:30:00 AM	1.60788	1.60776			N/A
6/3/2019	EURAUD.fx	11:30:00 AM	1.60779	1.60751			N/A
6/3/2019	EURAUD.fx	1:30:00 PM	1.60681	1.60666			N/A
6/3/2019	EURAUD.fx	3:30:00 PM	1.60771	1.60761			N/A
6/3/2019	EURCAD	9:30:00 AM	1.5078	1.50846			N/A
6/3/2019	EURCAD	11:30:00 AM	1.50989	1.51053			N/A
6/3/2019	EURCAD	1:30:00 PM	1.50865	1.50943			N/A
6/3/2019	EURCAD	3:30:00 PM	1.5105	1.51102			N/A
6/3/2019	EURCAD.fx	9:30:00 AM	1.50821	1.50802			N/A
6/3/2019	EURCAD.fx	11:30:00 AM	1.5103	1.5101			N/A
6/3/2019	EURCAD.fx	1:30:00 PM	1.50907	1.50902			N/A
6/3/2019	EURCAD.fx	3:30:00 PM	1.51092	1.51059			N/A
6/3/2019	EURCHF	9:30:00 AM	1.11558	1.11565			N/A
6/3/2019	EURCHF	11:30:00 AM	1.1139	1.11379			N/A
6/3/2019	EURCHF	1:30:00 PM	1.1173	1.11743			N/A
6/3/2019	EURCHF	3:30:00 PM	1.11665	1.11656			N/A
6/3/2019	EURCHF.fx	9:30:00 AM	1.11563	1.11559			N/A
6/3/2019	EURCHF.fx	11:30:00 AM	1.11396	1.11372			N/A

6/3/2019	EURCHF.fx	1:30:00 PM	1.11735	1.11737			N/A
6/3/2019	EURCHF.fx	3:30:00 PM	1.11671	1.11649			N/A
6/3/2019	EURCZK	9:30:00 AM	25.819	25.858			N/A
6/3/2019	EURCZK	11:30:00 AM	25.815	25.855			N/A
6/3/2019	EURCZK	1:30:00 PM	25.795	25.834			N/A
6/3/2019	EURCZK	3:30:00 PM	25.791	25.83			N/A
6/3/2019	EURDKK	9:30:00 AM	7.4669	7.4679			N/A
6/3/2019	EURDKK	11:30:00 AM	7.4635	7.4648			N/A
6/3/2019	EURDKK	1:30:00 PM	7.4662	7.4669			N/A
6/3/2019	EURDKK	3:30:00 PM	7.4657	7.467			N/A
6/3/2019	EURGBP	9:30:00 AM	0.88431	0.88434			N/A
6/3/2019	EURGBP	11:30:00 AM	0.88348	0.88324			N/A
6/3/2019	EURGBP	1:30:00 PM	0.88402	0.88404			N/A
6/3/2019	EURGBP	3:30:00 PM	0.88686	0.88684			N/A
6/3/2019	EURGBP.fx	9:30:00 AM	0.88436	0.88429			N/A
6/3/2019	EURGBP.fx	11:30:00 AM	0.8835	0.88319			N/A
6/3/2019	EURGBP.fx	1:30:00 PM	0.88405	0.88399			N/A
6/3/2019	EURGBP.fx	3:30:00 PM	0.8869	0.8868			N/A
6/3/2019	EURHKD	9:30:00 AM	8.7534	8.7571			N/A
6/3/2019	EURHKD	11:30:00 AM	8.7522	8.7562			N/A
6/3/2019	EURHKD	1:30:00 PM	8.7584	8.763			N/A
6/3/2019	EURHKD	3:30:00 PM	8.7716	8.7755			N/A
6/3/2019	EURHKD.fx	9:30:00 AM	8.75623	8.75427			N/A
6/3/2019	EURHKD.fx	11:30:00 AM	8.75501	8.75331			N/A
6/3/2019	EURHKD.fx	1:30:00 PM	8.76128	8.76011			N/A
6/3/2019	EURHKD.fx	3:30:00 PM	8.7744	8.77257			N/A
6/3/2019	EURHUF	9:30:00 AM	324.7	325.38			N/A
6/3/2019	EURHUF	11:30:00 AM	324.13	324.86			N/A
6/3/2019	EURHUF	1:30:00 PM	323.88	324.48			N/A
6/3/2019	EURHUF	3:30:00 PM	323.28	324			N/A
6/3/2019	EURHUF.fx	9:30:00 AM	324.963	325.144			N/A
6/3/2019	EURHUF.fx	11:30:00 AM	324.401	324.571			N/A
6/3/2019	EURHUF.fx	1:30:00 PM	324.16	324.345			N/A
6/3/2019	EURHUF.fx	3:30:00 PM	323.559	323.728			N/A

6/3/2019	EURJPY	9:30:00 AM	120.937	120.938			N/A
6/3/2019	EURJPY	11:30:00 AM	120.932	120.921			N/A
6/3/2019	EURJPY	1:30:00 PM	121.119	121.12			N/A
6/3/2019	EURJPY	3:30:00 PM	121.236	121.23			N/A
6/3/2019	EURJPY.fx	9:30:00 AM	120.939	120.934			N/A
6/3/2019	EURJPY.fx	11:30:00 AM	120.936	120.917			N/A
6/3/2019	EURJPY.fx	1:30:00 PM	121.122	121.115			N/A
6/3/2019	EURJPY.fx	3:30:00 PM	121.238	121.226			N/A
6/3/2019	EURMXN	9:30:00 AM	21.9349	21.952			N/A
6/3/2019	EURMXN	11:30:00 AM	21.9254	21.9433			N/A
6/3/2019	EURMXN	1:30:00 PM	21.9409	21.9557			N/A
6/3/2019	EURMXN	3:30:00 PM	22.0974	22.1059			N/A
6/3/2019	EURMXN.fx	9:30:00 AM	21.9436	21.9436			N/A
6/3/2019	EURMXN.fx	11:30:00 AM	21.9342	21.9345			N/A
6/3/2019	EURMXN.fx	1:30:00 PM	21.9497	21.9469			N/A
6/3/2019	EURMXN.fx	3:30:00 PM	22.1068	22.0962			N/A
6/3/2019	EURNOK	9:30:00 AM	9.7756	9.7781			N/A
6/3/2019	EURNOK	11:30:00 AM	9.7819	9.792			N/A
6/3/2019	EURNOK	1:30:00 PM	9.766	9.7783			N/A
6/3/2019	EURNOK	3:30:00 PM	9.7603	9.7699			N/A
6/3/2019	EURNOK.fx	9:30:00 AM	9.7793	9.77314			N/A
6/3/2019	EURNOK.fx	11:30:00 AM	9.78741	9.78655			N/A
6/3/2019	EURNOK.fx	1:30:00 PM	9.77146	9.77282			N/A
6/3/2019	EURNOK.fx	3:30:00 PM	9.76582	9.76447			N/A
6/3/2019	EURNZD	9:30:00 AM	1.70618	1.70696			N/A
6/3/2019	EURNZD	11:30:00 AM	1.70417	1.70484			N/A
6/3/2019	EURNZD	1:30:00 PM	1.70281	1.70349			N/A
6/3/2019	EURNZD	3:30:00 PM	1.70421	1.70498			N/A
6/3/2019	EURNZD.fx	9:30:00 AM	1.70658	1.70653			N/A
6/3/2019	EURNZD.fx	11:30:00 AM	1.70459	1.7044			N/A
6/3/2019	EURNZD.fx	1:30:00 PM	1.70319	1.70307			N/A
6/3/2019	EURNZD.fx	3:30:00 PM	1.70462	1.70455			N/A
6/3/2019	EURPLN	9:30:00 AM	4.281	4.2841			N/A
6/3/2019	EURPLN	11:30:00 AM	4.2806	4.2838			N/A

6/3/2019	EURPLN	1:30:00 PM	4.28	4.2832			N/A
6/3/2019	EURPLN	3:30:00 PM	4.2814	4.2844			N/A
6/3/2019	EURPLN.fx	9:30:00 AM	4.28013	4.28492			N/A
6/3/2019	EURPLN.fx	11:30:00 AM	4.28007	4.28442			N/A
6/3/2019	EURPLN.fx	1:30:00 PM	4.27942	4.28372			N/A
6/3/2019	EURPLN.fx	3:30:00 PM	4.28089	4.28482			N/A
6/3/2019	EURRUB	9:30:00 AM					N/A
6/3/2019	EURRUB	11:30:00 AM	72.911	73.351			N/A
6/3/2019	EURRUB	1:30:00 PM	72.724	73.154			N/A
6/3/2019	EURRUB	3:30:00 PM	72.728	73.148			N/A
6/3/2019	EURSEK	9:30:00 AM	10.5997	10.5977			N/A
6/3/2019	EURSEK	11:30:00 AM	10.6048	10.6085			N/A
6/3/2019	EURSEK	1:30:00 PM	10.5992	10.6038			N/A
6/3/2019	EURSEK	3:30:00 PM	10.6034	10.605			N/A
6/3/2019	EURSEK.fx	9:30:00 AM	10.60078	10.59615			N/A
6/3/2019	EURSEK.fx	11:30:00 AM	10.6066	10.60698			N/A
6/3/2019	EURSEK.fx	1:30:00 PM	10.60085	10.60217			N/A
6/3/2019	EURSEK.fx	3:30:00 PM	10.60496	10.60304			N/A
6/3/2019	EURSGD	9:30:00 AM	1.5317	1.5324			N/A
6/3/2019	EURSGD	11:30:00 AM	1.5317	1.5324			N/A
6/3/2019	EURSGD	1:30:00 PM	1.5318	1.5325			N/A
6/3/2019	EURSGD	3:30:00 PM	1.533	1.5337			N/A
6/3/2019	EURSGD.fx	9:30:00 AM	1.53209	1.53197			N/A
6/3/2019	EURSGD.fx	11:30:00 AM	1.53212	1.53198			N/A
6/3/2019	EURSGD.fx	1:30:00 PM	1.53219	1.53212			N/A
6/3/2019	EURSGD.fx	3:30:00 PM	1.53343	1.53331			N/A
6/3/2019	EURUSD	9:30:00 AM	1.11686	1.11679			N/A
6/3/2019	EURUSD	11:30:00 AM	1.11714	1.11708			N/A
6/3/2019	EURUSD	1:30:00 PM	1.11791	1.11793			N/A
6/3/2019	EURUSD	3:30:00 PM	1.11953	1.11947			N/A
6/3/2019	EURUSD.fx	9:30:00 AM	1.11707	1.11688			N/A
6/3/2019	EURUSD.fx	11:30:00 AM	1.11734	1.11717			N/A
6/3/2019	EURUSD.fx	1:30:00 PM	1.11811	1.11801			N/A
6/3/2019	EURUSD.fx	3:30:00 PM	1.11973	1.11956			N/A

6/3/2019	EURZAR	9:30:00 AM	16.2862	16.3047			N/A
6/3/2019	EURZAR	11:30:00 AM	16.2781	16.2942			N/A
6/3/2019	EURZAR	1:30:00 PM	16.2348	16.2536			N/A
6/3/2019	EURZAR	3:30:00 PM	16.2479	16.2649			N/A
6/3/2019	EURZAR.fx	9:30:00 AM	16.285	16.30544			N/A
6/3/2019	EURZAR.fx	11:30:00 AM	16.27785	16.29495			N/A
6/3/2019	EURZAR.fx	1:30:00 PM	16.23454	16.25385			N/A
6/3/2019	EURZAR.fx	3:30:00 PM	16.24791	16.26575			N/A
6/3/2019	GBPAUD	9:30:00 AM	1.81862	1.81915			N/A
6/3/2019	GBPAUD	11:30:00 AM	1.82082	1.8208			N/A
6/3/2019	GBPAUD	1:30:00 PM	1.81802	1.8185			N/A
6/3/2019	GBPAUD	3:30:00 PM	1.81318	1.81382			N/A
6/3/2019	GBPAUD.fx	9:30:00 AM	1.81902	1.81875			N/A
6/3/2019	GBPAUD.fx	11:30:00 AM	1.8212	1.82054			N/A
6/3/2019	GBPAUD.fx	1:30:00 PM	1.81841	1.8181			N/A
6/3/2019	GBPAUD.fx	3:30:00 PM	1.81358	1.81342			N/A
6/3/2019	GBPCAD	9:30:00 AM	1.70515	1.70583			N/A
6/3/2019	GBPCAD	11:30:00 AM	1.70967	1.70956			N/A
6/3/2019	GBPCAD	1:30:00 PM	1.70672	1.70731			N/A
6/3/2019	GBPCAD	3:30:00 PM	1.70332	1.70374			N/A
6/3/2019	GBPCAD.fx	9:30:00 AM	1.70552	1.70545			N/A
6/3/2019	GBPCAD.fx	11:30:00 AM	1.71006	1.70923			N/A
6/3/2019	GBPCAD.fx	1:30:00 PM	1.70713	1.70692			N/A
6/3/2019	GBPCAD.fx	3:30:00 PM	1.70372	1.70332			N/A
6/3/2019	GBPCHF	9:30:00 AM	1.26137	1.26175			N/A
6/3/2019	GBPCHF	11:30:00 AM	1.26099	1.26081			N/A
6/3/2019	GBPCHF	1:30:00 PM	1.26382	1.26414			N/A
6/3/2019	GBPCHF	3:30:00 PM	1.25889	1.25925			N/A
6/3/2019	GBPCHF.fx	9:30:00 AM	1.26155	1.26156			N/A
6/3/2019	GBPCHF.fx	11:30:00 AM	1.26117	1.26065			N/A
6/3/2019	GBPCHF.fx	1:30:00 PM	1.26401	1.26393			N/A
6/3/2019	GBPCHF.fx	3:30:00 PM	1.25908	1.25905			N/A
6/3/2019	GBPCZK	9:30:00 AM	29.208	29.227			N/A
6/3/2019	GBPCZK	11:30:00 AM	29.241	29.251			N/A

6/3/2019	GBPCZK	1:30:00 PM	29.19	29.21			N/A
6/3/2019	GBPCZK	3:30:00 PM	29.093	29.113			N/A
6/3/2019	GBPDKK	9:30:00 AM	8.44	8.45			N/A
6/3/2019	GBPDKK	11:30:00 AM	8.451	8.458			N/A
6/3/2019	GBPDKK	1:30:00 PM	8.443	8.453			N/A
6/3/2019	GBPDKK	3:30:00 PM	8.416	8.426			N/A
6/3/2019	GBPDKK.fx	9:30:00 AM	8.438	8.4504			N/A
6/3/2019	GBPDKK.fx	11:30:00 AM	8.4492	8.4592			N/A
6/3/2019	GBPDKK.fx	1:30:00 PM	8.4415	8.4537			N/A
6/3/2019	GBPDKK.fx	3:30:00 PM	8.4146	8.4264			N/A
6/3/2019	GBPHKD	9:30:00 AM	9.8957	9.9016			N/A
6/3/2019	GBPHKD	11:30:00 AM	9.9064	9.9076			N/A
6/3/2019	GBPHKD	1:30:00 PM	9.9057	9.9093			N/A
6/3/2019	GBPHKD	3:30:00 PM	9.8892	9.8928			N/A
6/3/2019	GBPHUF	9:30:00 AM	367.14	367.4			N/A
6/3/2019	GBPHUF	11:30:00 AM	366.82	367.19			N/A
6/3/2019	GBPHUF	1:30:00 PM	366.4	366.84			N/A
6/3/2019	GBPHUF	3:30:00 PM	364.54	364.95			N/A
6/3/2019	GBPJPY	9:30:00 AM	136.748	136.776			N/A
6/3/2019	GBPJPY	11:30:00 AM	136.902	136.891			N/A
6/3/2019	GBPJPY	1:30:00 PM	136.997	137.021			N/A
6/3/2019	GBPJPY	3:30:00 PM	136.681	136.72			N/A
6/3/2019	GBPJPY.fx	9:30:00 AM	136.767	136.756			N/A
6/3/2019	GBPJPY.fx	11:30:00 AM	136.921	136.875			N/A
6/3/2019	GBPJPY.fx	1:30:00 PM	137.017	137.002			N/A
6/3/2019	GBPJPY.fx	3:30:00 PM	136.701	136.699			N/A
6/3/2019	GBPMXN	9:30:00 AM	24.7997	24.8124			N/A
6/3/2019	GBPMXN	11:30:00 AM	24.8193	24.823			N/A
6/3/2019	GBPMXN	1:30:00 PM	24.8144	24.8269			N/A
6/3/2019	GBPMXN	3:30:00 PM	24.9151	24.917			N/A
6/3/2019	GBPNOK	9:30:00 AM	11.0535	11.0552			N/A
6/3/2019	GBPNOK	11:30:00 AM	11.0772	11.0834			N/A
6/3/2019	GBPNOK	1:30:00 PM	11.0491	11.0594			N/A
6/3/2019	GBPNOK	3:30:00 PM	11.0075	11.0145			N/A

6/3/2019	GBPNOK.fx	9:30:00 AM	11.05392	11.05114			N/A
6/3/2019	GBPNOK.fx	11:30:00 AM	11.08196	11.07921			N/A
6/3/2019	GBPNOK.fx	1:30:00 PM	11.05408	11.05475			N/A
6/3/2019	GBPNOK.fx	3:30:00 PM	11.0126	11.00919			N/A
6/3/2019	GBPNZD	9:30:00 AM	1.92952	1.93014			N/A
6/3/2019	GBPNZD	11:30:00 AM	1.92968	1.92971			N/A
6/3/2019	GBPNZD	1:30:00 PM	1.92633	1.92689			N/A
6/3/2019	GBPNZD	3:30:00 PM	1.92193	1.9224			N/A
6/3/2019	GBPNZD.fx	9:30:00 AM	1.92987	1.92977			N/A
6/3/2019	GBPNZD.fx	11:30:00 AM	1.93006	1.92934			N/A
6/3/2019	GBPNZD.fx	1:30:00 PM	1.92669	1.92653			N/A
6/3/2019	GBPNZD.fx	3:30:00 PM	1.92227	1.92199			N/A
6/3/2019	GBPPLN	9:30:00 AM	4.8419	4.8433			N/A
6/3/2019	GBPPLN	11:30:00 AM	4.8476	4.8481			N/A
6/3/2019	GBPPLN	1:30:00 PM	4.8426	4.844			N/A
6/3/2019	GBPPLN	3:30:00 PM	4.8289	4.8301			N/A
6/3/2019	GBPPLN.fx	9:30:00 AM	4.83949	4.84568			N/A
6/3/2019	GBPPLN.fx	11:30:00 AM	4.84536	4.85013			N/A
6/3/2019	GBPPLN.fx	1:30:00 PM	4.84047	4.84622			N/A
6/3/2019	GBPPLN.fx	3:30:00 PM	4.82695	4.83216			N/A
6/3/2019	GBPSEK	9:30:00 AM	11.9842	11.9854			N/A
6/3/2019	GBPSEK	11:30:00 AM	12.0057	12.0084			N/A
6/3/2019	GBPSEK	1:30:00 PM	11.988	11.9965			N/A
6/3/2019	GBPSEK	3:30:00 PM	11.9552	11.9584			N/A
6/3/2019	GBPSEK.fx	9:30:00 AM	11.97909	11.98931			N/A
6/3/2019	GBPSEK.fx	11:30:00 AM	12.00202	12.01464			N/A
6/3/2019	GBPSEK.fx	1:30:00 PM	11.98456	12.00021			N/A
6/3/2019	GBPSEK.fx	3:30:00 PM	11.95163	11.96185			N/A
6/3/2019	GBPSGD	9:30:00 AM	1.7322	1.7328			N/A
6/3/2019	GBPSGD	11:30:00 AM	1.7343	1.7342			N/A
6/3/2019	GBPSGD	1:30:00 PM	1.7328	1.7334			N/A
6/3/2019	GBPSGD	3:30:00 PM	1.7288	1.7292			N/A
6/3/2019	GBPSGD.fx	9:30:00 AM	1.73033	1.73464			N/A
6/3/2019	GBPSGD.fx	11:30:00 AM	1.73247	1.73617			N/A

6/3/2019	GBPSGD.fx	1:30:00 PM	1.73104	1.73517			N/A
6/3/2019	GBPSGD.fx	3:30:00 PM	1.72694	1.73098			N/A
6/3/2019	GBPUSD	9:30:00 AM	1.26319	1.26317			N/A
6/3/2019	GBPUSD	11:30:00 AM	1.26505	1.26451			N/A
6/3/2019	GBPUSD	1:30:00 PM	1.26476	1.26466			N/A
6/3/2019	GBPUSD	3:30:00 PM	1.26259	1.26244			N/A
6/3/2019	GBPUSD.fx	9:30:00 AM	1.26324	1.26311			N/A
6/3/2019	GBPUSD.fx	11:30:00 AM	1.2651	1.26447			N/A
6/3/2019	GBPUSD.fx	1:30:00 PM	1.26481	1.2646			N/A
6/3/2019	GBPUSD.fx	3:30:00 PM	1.26265	1.26238			N/A
6/3/2019	GBPZAR	9:30:00 AM	18.4142	18.4419			N/A
6/3/2019	GBPZAR	11:30:00 AM	18.4259	18.4466			N/A
6/3/2019	GBPZAR	1:30:00 PM	18.3609	18.3892			N/A
6/3/2019	GBPZAR	3:30:00 PM	18.319	18.342			N/A
6/3/2019	GBPZAR.fx	9:30:00 AM	18.4213	18.4364			N/A
6/3/2019	GBPZAR.fx	11:30:00 AM	18.433	18.4422			N/A
6/3/2019	GBPZAR.fx	1:30:00 PM	18.3682	18.3822			N/A
6/3/2019	GBPZAR.fx	3:30:00 PM	18.3261	18.3352			N/A
6/3/2019	GOLD	9:30:00 AM	1310.82	1310.84			N/A
6/3/2019	GOLD	11:30:00 AM	1314.89	1315.18			N/A
6/3/2019	GOLD	1:30:00 PM	1317.03	1317.03			N/A
6/3/2019	GOLD	3:30:00 PM	1317.76	1317.9			N/A
6/3/2019	HKDJPY	9:30:00 AM	13.81	13.83			N/A
6/3/2019	HKDJPY	11:30:00 AM	13.81	13.82			N/A
6/3/2019	HKDJPY	1:30:00 PM	13.83	13.84			N/A
6/3/2019	HKDJPY	3:30:00 PM	13.82	13.83			N/A
6/3/2019	HKDJPY.fx	9:30:00 AM	13.81	13.815			N/A
6/3/2019	HKDJPY.fx	11:30:00 AM	13.809	13.816			N/A
6/3/2019	HKDJPY.fx	1:30:00 PM	13.821	13.829			N/A
6/3/2019	HKDJPY.fx	3:30:00 PM	13.814	13.819			N/A
6/3/2019	HUFJPY	9:30:00 AM	0.3724	0.3727			N/A
6/3/2019	HUFJPY	11:30:00 AM	0.373	0.3732			N/A
6/3/2019	HUFJPY	1:30:00 PM	0.3737	0.374			N/A
6/3/2019	HUFJPY	3:30:00 PM	0.3748	0.3751			N/A

6/3/2019	JP225.i	9:30:00 AM	20377.85	20392.85			N/A
6/3/2019	JP225.i	11:30:00 AM	20357.85	20370.35			N/A
6/3/2019	JP225.i	1:30:00 PM	20426.18	20442.85			N/A
6/3/2019	JP225.i	3:30:00 PM	20417.85	20432.85			N/A
6/3/2019	MXNJPY	9:30:00 AM					N/A
6/3/2019	MXNJPY	11:30:00 AM	5.51	5.52			N/A
6/3/2019	MXNJPY	1:30:00 PM	5.52	5.53			N/A
6/3/2019	MXNJPY	3:30:00 PM	5.49	5.49			N/A
6/3/2019	NASDAQ.i	9:30:00 AM					N/A
6/3/2019	NASDAQ.i	11:30:00 AM					N/A
6/3/2019	NASDAQ.i	1:30:00 PM					N/A
6/3/2019	NASDAQ.i	3:30:00 PM					N/A
6/3/2019	NOKJPY	9:30:00 AM	12.36	12.38			N/A
6/3/2019	NOKJPY	11:30:00 AM	12.35	12.37			N/A
6/3/2019	NOKJPY	1:30:00 PM	12.38	12.41			N/A
6/3/2019	NOKJPY	3:30:00 PM	12.4	12.43			N/A
6/3/2019	NOKJPY.fx	9:30:00 AM	12.372	12.376			N/A
6/3/2019	NOKJPY.fx	11:30:00 AM	12.355	12.357			N/A
6/3/2019	NOKJPY.fx	1:30:00 PM	12.39	12.398			N/A
6/3/2019	NOKJPY.fx	3:30:00 PM	12.414	12.416			N/A
6/3/2019	NZDCAD	9:30:00 AM	0.8834	0.88407			N/A
6/3/2019	NZDCAD	11:30:00 AM	0.88568	0.88625			N/A
6/3/2019	NZDCAD	1:30:00 PM	0.88572	0.88634			N/A
6/3/2019	NZDCAD	3:30:00 PM	0.886	0.88656			N/A
6/3/2019	NZDCAD.fx	9:30:00 AM	0.88373	0.88373			N/A
6/3/2019	NZDCAD.fx	11:30:00 AM	0.88603	0.88591			N/A
6/3/2019	NZDCAD.fx	1:30:00 PM	0.88605	0.886			N/A
6/3/2019	NZDCAD.fx	3:30:00 PM	0.88633	0.88621			N/A
6/3/2019	NZDCHF	9:30:00 AM	0.65334	0.65406			N/A
6/3/2019	NZDCHF	11:30:00 AM	0.6532	0.65373			N/A
6/3/2019	NZDCHF	1:30:00 PM	0.65574	0.65641			N/A
6/3/2019	NZDCHF	3:30:00 PM	0.65474	0.65536			N/A
6/3/2019	NZDCHF.fx	9:30:00 AM	0.65367	0.65371			N/A
6/3/2019	NZDCHF.fx	11:30:00 AM	0.65354	0.65337			N/A

6/3/2019	NZDCHF.fx	1:30:00 PM	0.65608	0.65605			N/A
6/3/2019	NZDCHF.fx	3:30:00 PM	0.65508	0.65501			N/A
6/3/2019	NZDCZK	9:30:00 AM	15.134	15.146			N/A
6/3/2019	NZDCZK	11:30:00 AM	15.15	15.162			N/A
6/3/2019	NZDCZK	1:30:00 PM	15.15	15.162			N/A
6/3/2019	NZDCZK	3:30:00 PM	15.134	15.147			N/A
6/3/2019	NZDDKK	9:30:00 AM	4.373	4.375			N/A
6/3/2019	NZDDKK	11:30:00 AM					N/A
6/3/2019	NZDDKK	1:30:00 PM					N/A
6/3/2019	NZDDKK	3:30:00 PM					N/A
6/3/2019	NZDHKD	9:30:00 AM	5.1272	5.1299			N/A
6/3/2019	NZDHKD	11:30:00 AM	5.1324	5.1353			N/A
6/3/2019	NZDHKD	1:30:00 PM	5.141	5.1433			N/A
6/3/2019	NZDHKD	3:30:00 PM	5.1445	5.147			N/A
6/3/2019	NZDHUF	9:30:00 AM	190.2	190.39			N/A
6/3/2019	NZDHUF	11:30:00 AM	190.03	190.32			N/A
6/3/2019	NZDHUF	1:30:00 PM	190.14	190.42			N/A
6/3/2019	NZDHUF	3:30:00 PM	189.61	189.87			N/A
6/3/2019	NZDJPY	9:30:00 AM	70.832	70.899			N/A
6/3/2019	NZDJPY	11:30:00 AM	70.918	70.977			N/A
6/3/2019	NZDJPY	1:30:00 PM	71.082	71.152			N/A
6/3/2019	NZDJPY	3:30:00 PM	71.086	71.153			N/A
6/3/2019	NZDJPY.fx	9:30:00 AM	70.864	70.866			N/A
6/3/2019	NZDJPY.fx	11:30:00 AM	70.949	70.944			N/A
6/3/2019	NZDJPY.fx	1:30:00 PM	71.113	71.119			N/A
6/3/2019	NZDJPY.fx	3:30:00 PM	71.118	71.12			N/A
6/3/2019	NZDMXN	9:30:00 AM	12.8493	12.8546			N/A
6/3/2019	NZDMXN	11:30:00 AM	12.8601	12.8641			N/A
6/3/2019	NZDMXN	1:30:00 PM	12.8796	12.8832			N/A
6/3/2019	NZDMXN	3:30:00 PM	12.9601	12.9613			N/A
6/3/2019	NZDNOK	9:30:00 AM	5.7239	5.7239			N/A
6/3/2019	NZDNOK	11:30:00 AM	5.7355	5.7394			N/A
6/3/2019	NZDNOK	1:30:00 PM	5.7337	5.7371			N/A
6/3/2019	NZDNOK	3:30:00 PM	5.7251	5.7282			N/A

6/3/2019	NZDPLN	9:30:00 AM	2.5076	2.509			N/A
6/3/2019	NZDPLN	11:30:00 AM	2.5105	2.5119			N/A
6/3/2019	NZDPLN	1:30:00 PM	2.5125	2.5136			N/A
6/3/2019	NZDPLN	3:30:00 PM	2.5112	2.5125			N/A
6/3/2019	NZDSEK	9:30:00 AM	6.2048	6.2067			N/A
6/3/2019	NZDSEK	11:30:00 AM	6.2165	6.2219			N/A
6/3/2019	NZDSEK	1:30:00 PM	6.2188	6.2253			N/A
6/3/2019	NZDSEK	3:30:00 PM	6.2158	6.221			N/A
6/3/2019	NZDSGD	9:30:00 AM	0.8974	0.8978			N/A
6/3/2019	NZDSGD	11:30:00 AM	0.8985	0.8991			N/A
6/3/2019	NZDSGD	1:30:00 PM	0.8993	0.8999			N/A
6/3/2019	NZDSGD	3:30:00 PM	0.8992	0.8998			N/A
6/3/2019	NZDSGD.fx	9:30:00 AM	0.8974	0.89797			N/A
6/3/2019	NZDSGD.fx	11:30:00 AM	0.89848	0.899			N/A
6/3/2019	NZDSGD.fx	1:30:00 PM	0.89926	0.89982			N/A
6/3/2019	NZDSGD.fx	3:30:00 PM	0.89924	0.89978			N/A
6/3/2019	NZDUSD	9:30:00 AM	0.65444	0.65452			N/A
6/3/2019	NZDUSD	11:30:00 AM	0.65542	0.65543			N/A
6/3/2019	NZDUSD	1:30:00 PM	0.65636	0.65647			N/A
6/3/2019	NZDUSD	3:30:00 PM	0.65675	0.65684			N/A
6/3/2019	NZDUSD.fx	9:30:00 AM	0.6545	0.65453			N/A
6/3/2019	NZDUSD.fx	11:30:00 AM	0.6555	0.65544			N/A
6/3/2019	NZDUSD.fx	1:30:00 PM	0.65643	0.65648			N/A
6/3/2019	NZDUSD.fx	3:30:00 PM	0.65682	0.65685			N/A
6/3/2019	NZDZAR	9:30:00 AM	9.5325	9.5495			N/A
6/3/2019	NZDZAR	11:30:00 AM	9.5387	9.5545			N/A
6/3/2019	NZDZAR	1:30:00 PM	9.5241	9.5403			N/A
6/3/2019	NZDZAR	3:30:00 PM	9.5235	9.5391			N/A
6/3/2019	SEKJPY	9:30:00 AM	11.41	11.42			N/A
6/3/2019	SEKJPY	11:30:00 AM	11.4	11.41			N/A
6/3/2019	SEKJPY	1:30:00 PM	11.43	11.43			N/A
6/3/2019	SEKJPY	3:30:00 PM	11.43	11.44			N/A
6/3/2019	SEKJPY.fx	9:30:00 AM	11.404	11.416			N/A
6/3/2019	SEKJPY.fx	11:30:00 AM	11.391	11.409			N/A

6/3/2019	SEKJPY.fx	1:30:00 PM	11.415	11.434			N/A
6/3/2019	SEKJPY.fx	3:30:00 PM	11.426	11.439			N/A
6/3/2019	SGDJPY	9:30:00 AM	78.92	78.94			N/A
6/3/2019	SGDJPY	11:30:00 AM	78.91	78.93			N/A
6/3/2019	SGDJPY	1:30:00 PM	79.03	79.05			N/A
6/3/2019	SGDJPY	3:30:00 PM	79.04	79.06			N/A
6/3/2019	SILVER	9:30:00 AM	14.4	14.77			N/A
6/3/2019	SILVER	11:30:00 AM	14.48	14.85			N/A
6/3/2019	SILVER	1:30:00 PM	14.52	14.9			N/A
6/3/2019	SILVER	3:30:00 PM	14.53	14.91			N/A
6/3/2019	SPX500.i	9:30:00 AM	2739.65	2740.2			N/A
6/3/2019	SPX500.i	11:30:00 AM	2737.4	2737.7			N/A
6/3/2019	SPX500.i	1:30:00 PM	2743.15	2743.7			N/A
6/3/2019	SPX500.i	3:30:00 PM	2744.9	2745.2			N/A
6/3/2019	UK100.i	9:30:00 AM	7130.74	7129.49			N/A
6/3/2019	UK100.i	11:30:00 AM	7099.41	7096.91			N/A
6/3/2019	UK100.i	1:30:00 PM	7142.28	7142.49			N/A
6/3/2019	UK100.i	3:30:00 PM	7156.99	7157.49			N/A
6/3/2019	USDCAD	9:30:00 AM	1.35017	1.35028			N/A
6/3/2019	USDCAD	11:30:00 AM	1.35177	1.35167			N/A
6/3/2019	USDCAD	1:30:00 PM	1.34969	1.34978			N/A
6/3/2019	USDCAD	3:30:00 PM	1.34931	1.34935			N/A
6/3/2019	USDCAD.fx	9:30:00 AM	1.3502	1.35025			N/A
6/3/2019	USDCAD.fx	11:30:00 AM	1.35179	1.35163			N/A
6/3/2019	USDCAD.fx	1:30:00 PM	1.34972	1.34974			N/A
6/3/2019	USDCAD.fx	3:30:00 PM	1.34934	1.34931			N/A
6/3/2019	USDCHF	9:30:00 AM	0.99874	0.9988			N/A
6/3/2019	USDCHF	11:30:00 AM	0.99694	0.99687			N/A
6/3/2019	USDCHF	1:30:00 PM	0.99936	0.99944			N/A
6/3/2019	USDCHF	3:30:00 PM	0.99735	0.99715			N/A
6/3/2019	USDCHF.fx	9:30:00 AM	0.99879	0.99873			N/A
6/3/2019	USDCHF.fx	11:30:00 AM	0.99699	0.9968			N/A
6/3/2019	USDCHF.fx	1:30:00 PM	0.9994	0.99938			N/A
6/3/2019	USDCHF.fx	3:30:00 PM	0.99741	0.99709			N/A

6/3/2019	USDCZK	9:30:00 AM	23.145	23.163			N/A
6/3/2019	USDCZK	11:30:00 AM	23.135	23.154			N/A
6/3/2019	USDCZK	1:30:00 PM	23.098	23.119			N/A
6/3/2019	USDCZK	3:30:00 PM	23.062	23.082			N/A
6/3/2019	USDCZK.fx	9:30:00 AM	23.1527	23.1545			N/A
6/3/2019	USDCZK.fx	11:30:00 AM	23.1427	23.1439			N/A
6/3/2019	USDCZK.fx	1:30:00 PM	23.106	23.1102			N/A
6/3/2019	USDCZK.fx	3:30:00 PM	23.0708	23.0724			N/A
6/3/2019	USDDKK	9:30:00 AM	6.6841	6.6871			N/A
6/3/2019	USDDKK	11:30:00 AM	6.6827	6.6859			N/A
6/3/2019	USDDKK	1:30:00 PM	6.678	6.6815			N/A
6/3/2019	USDDKK	3:30:00 PM	6.6687	6.6717			N/A
6/3/2019	USDDKK.fx	9:30:00 AM	6.68477	6.68516			N/A
6/3/2019	USDDKK.fx	11:30:00 AM	6.68341	6.68389			N/A
6/3/2019	USDDKK.fx	1:30:00 PM	6.67847	6.67945			N/A
6/3/2019	USDDKK.fx	3:30:00 PM	6.66918	6.66964			N/A
6/3/2019	USDHKD	9:30:00 AM	7.8382	7.8384			N/A
6/3/2019	USDHKD	11:30:00 AM	7.8352	7.8355			N/A
6/3/2019	USDHKD	1:30:00 PM	7.8348	7.8351			N/A
6/3/2019	USDHKD	3:30:00 PM	7.8358	7.836			N/A
6/3/2019	USDHKD.fx	9:30:00 AM	7.83811	7.83862			N/A
6/3/2019	USDHKD.fx	11:30:00 AM	7.83526	7.83567			N/A
6/3/2019	USDHKD.fx	1:30:00 PM					N/A
6/3/2019	USDHKD.fx	3:30:00 PM	7.83569	7.83628			N/A
6/3/2019	USDHUF	9:30:00 AM	290.78	291.17			N/A
6/3/2019	USDHUF	11:30:00 AM	290.21	290.65			N/A
6/3/2019	USDHUF	1:30:00 PM	289.79	290.24			N/A
6/3/2019	USDHUF	3:30:00 PM	288.84	289.27			N/A
6/3/2019	USDHUF.fx	9:30:00 AM	290.946	291.007			N/A
6/3/2019	USDHUF.fx	11:30:00 AM	290.405	290.446			N/A
6/3/2019	USDHUF.fx	1:30:00 PM	289.983	290.038			N/A
6/3/2019	USDHUF.fx	3:30:00 PM	289.033	289.068			N/A
6/3/2019	USDINR	9:30:00 AM	64.44	74.43			N/A
6/3/2019	USDINR	11:30:00 AM	64.4	74.39			N/A

6/3/2019	USDINR	1:30:00 PM					N/A
6/3/2019	USDINR	3:30:00 PM					N/A
6/3/2019	USDJPY	9:30:00 AM	108.277	108.271			N/A
6/3/2019	USDJPY	11:30:00 AM	108.232	108.239			N/A
6/3/2019	USDJPY	1:30:00 PM	108.329	108.339			N/A
6/3/2019	USDJPY	3:30:00 PM	108.279	108.274			N/A
6/3/2019	USDJPY.fx	9:30:00 AM	108.284	108.263			N/A
6/3/2019	USDJPY.fx	11:30:00 AM	108.238	108.232			N/A
6/3/2019	USDJPY.fx	1:30:00 PM	108.335	108.331			N/A
6/3/2019	USDJPY.fx	3:30:00 PM	108.285	108.267			N/A
6/3/2019	USDMXN	9:30:00 AM	19.641	19.649			N/A
6/3/2019	USDMXN	11:30:00 AM	19.628	19.634			N/A
6/3/2019	USDMXN	1:30:00 PM	19.629	19.633			N/A
6/3/2019	USDMXN	3:30:00 PM	19.74	19.74			N/A
6/3/2019	USDMXN.f	9:30:00 AM	19.6449	19.6453			N/A
6/3/2019	USDMXN.f	11:30:00 AM	19.6319	19.6308			N/A
6/3/2019	USDMXN.f	1:30:00 PM	19.6325	19.6289			N/A
6/3/2019	USDMXN.f	3:30:00 PM	19.7443	19.7353			N/A
6/3/2019	USDNOK	9:30:00 AM	8.7515	8.7527			N/A
6/3/2019	USDNOK	11:30:00 AM	8.7573	8.7627			N/A
6/3/2019	USDNOK	1:30:00 PM	8.7365	8.745			N/A
6/3/2019	USDNOK	3:30:00 PM	8.7193	8.7254			N/A
6/3/2019	USDNOK.fx	9:30:00 AM	8.75203	8.74853			N/A
6/3/2019	USDNOK.fx	11:30:00 AM	8.76147	8.75824			N/A
6/3/2019	USDNOK.fx	1:30:00 PM	8.74052	8.7406			N/A
6/3/2019	USDNOK.fx	3:30:00 PM	8.72334	8.72093			N/A
6/3/2019	USDPLN	9:30:00 AM	3.8334	3.8345			N/A
6/3/2019	USDPLN	11:30:00 AM	3.8322	3.8333			N/A
6/3/2019	USDPLN	1:30:00 PM	3.8288	3.8301			N/A
6/3/2019	USDPLN	3:30:00 PM	3.8247	3.8259			N/A
6/3/2019	USDPLN.fx	9:30:00 AM	3.83238	3.83551			N/A
6/3/2019	USDPLN.fx	11:30:00 AM	3.83138	3.83403			N/A
6/3/2019	USDPLN.fx	1:30:00 PM	3.82808	3.83091			N/A
6/3/2019	USDPLN.fx	3:30:00 PM	3.82391	3.82653			N/A

6/3/2019	USDRUB	9:30:00 AM					N/A
6/3/2019	USDRUB	11:30:00 AM	65.374	65.764			N/A
6/3/2019	USDRUB	1:30:00 PM	65.157	65.541			N/A
6/3/2019	USDRUB	3:30:00 PM	65.068	65.444			N/A
6/3/2019	USDSEK	9:30:00 AM	9.4889	9.4869			N/A
6/3/2019	USDSEK	11:30:00 AM	9.492	9.4952			N/A
6/3/2019	USDSEK	1:30:00 PM	9.4799	9.4839			N/A
6/3/2019	USDSEK	3:30:00 PM	9.4706	9.4716			N/A
6/3/2019	USDSEK.fx	9:30:00 AM	9.49097	9.48505			N/A
6/3/2019	USDSEK.fx	11:30:00 AM	9.49465	9.49349			N/A
6/3/2019	USDSEK.fx	1:30:00 PM	9.48242	9.48207			N/A
6/3/2019	USDSEK.fx	3:30:00 PM	9.47323	9.46965			N/A
6/3/2019	USDSGD	9:30:00 AM	1.3712	1.3715			N/A
6/3/2019	USDSGD	11:30:00 AM	1.3709	1.3713			N/A
6/3/2019	USDSGD	1:30:00 PM	1.3701	1.3705			N/A
6/3/2019	USDSGD	3:30:00 PM	1.3693	1.3696			N/A
6/3/2019	USDSGD.fx	9:30:00 AM	1.3712	1.3717			N/A
6/3/2019	USDSGD.fx	11:30:00 AM	1.37089	1.37133			N/A
6/3/2019	USDSGD.fx	1:30:00 PM	1.37004	1.37048			N/A
6/3/2019	USDSGD.fx	3:30:00 PM	1.36916	1.3696			N/A
6/3/2019	USDZAR	9:30:00 AM	14.5797	14.5987			N/A
6/3/2019	USDZAR	11:30:00 AM	14.5685	14.5829			N/A
6/3/2019	USDZAR	1:30:00 PM	14.5212	14.5375			N/A
6/3/2019	USDZAR	3:30:00 PM	14.5114	14.5269			N/A
6/3/2019	USDZAR.fx	9:30:00 AM	14.58577	14.59309			N/A
6/3/2019	USDZAR.fx	11:30:00 AM	14.57455	14.5768			N/A
6/3/2019	USDZAR.fx	1:30:00 PM	14.52763	14.53099			N/A
6/3/2019	USDZAR.fx	3:30:00 PM	14.51727	14.52112			N/A
6/3/2019	XAUUSD	9:30:00 AM	1310.82	1310.84			N/A
6/3/2019	XAUUSD	11:30:00 AM	1314.89	1315.17			N/A
6/3/2019	XAUUSD	1:30:00 PM	1317.03	1317.02			N/A
6/3/2019	XAUUSD	3:30:00 PM	1317.76	1317.9			N/A
6/3/2019	ZARJPY	9:30:00 AM	7.4	7.42			N/A
6/3/2019	ZARJPY	11:30:00 AM	7.4	7.44			N/A

6/3/2019	ZARJPY	1:30:00 PM	7.44	7.46			N/A
6/3/2019	ZARJPY	3:30:00 PM	7.44	7.46			N/A
6/3/2019	ZARJPY.fx	9:30:00 AM	7.419	7.423			N/A
6/3/2019	ZARJPY.fx	11:30:00 AM	7.423	7.427			N/A
6/3/2019	ZARJPY.fx	1:30:00 PM	7.453	7.457			N/A
6/3/2019	ZARJPY.fx	3:30:00 PM	7.456	7.459			N/A
6/4/2019	#AA	9:30:00 AM					N/A
6/4/2019	#AA	11:30:00 AM					N/A
6/4/2019	#AA	1:30:00 PM					N/A
6/4/2019	#AA	3:30:00 PM					N/A
6/4/2019	#AABA	9:30:00 AM					N/A
6/4/2019	#AABA	11:30:00 AM					N/A
6/4/2019	#AABA	1:30:00 PM					N/A
6/4/2019	#AABA	3:30:00 PM					N/A
6/4/2019	#AAL	9:30:00 AM					N/A
6/4/2019	#AAL	11:30:00 AM					N/A
6/4/2019	#AAL	1:30:00 PM					N/A
6/4/2019	#AAL	3:30:00 PM					N/A
6/4/2019	#AAPL	9:30:00 AM					N/A
6/4/2019	#AAPL	11:30:00 AM					N/A
6/4/2019	#AAPL	1:30:00 PM					N/A
6/4/2019	#AAPL	3:30:00 PM					N/A
6/4/2019	#ADBE	9:30:00 AM					N/A
6/4/2019	#ADBE	11:30:00 AM					N/A
6/4/2019	#ADBE	1:30:00 PM					N/A
6/4/2019	#ADBE	3:30:00 PM					N/A
6/4/2019	#AIG	9:30:00 AM					N/A
6/4/2019	#AIG	11:30:00 AM					N/A
6/4/2019	#AIG	1:30:00 PM					N/A
6/4/2019	#AIG	3:30:00 PM					N/A
6/4/2019	#AMD	9:30:00 AM					N/A
6/4/2019	#AMD	11:30:00 AM					N/A
6/4/2019	#AMD	1:30:00 PM					N/A
6/4/2019	#AMD	3:30:00 PM					N/A

6/4/2019	#AMZN	9:30:00 AM					N/A
6/4/2019	#AMZN	11:30:00 AM					N/A
6/4/2019	#AMZN	1:30:00 PM					N/A
6/4/2019	#AMZN	3:30:00 PM					N/A
6/4/2019	#AXP	9:30:00 AM					N/A
6/4/2019	#AXP	11:30:00 AM					N/A
6/4/2019	#AXP	1:30:00 PM					N/A
6/4/2019	#AXP	3:30:00 PM					N/A
6/4/2019	#BA	9:30:00 AM					N/A
6/4/2019	#BA	11:30:00 AM					N/A
6/4/2019	#BA	1:30:00 PM					N/A
6/4/2019	#BA	3:30:00 PM					N/A
6/4/2019	#BABA	9:30:00 AM					N/A
6/4/2019	#BABA	11:30:00 AM					N/A
6/4/2019	#BABA	1:30:00 PM					N/A
6/4/2019	#BABA	3:30:00 PM					N/A
6/4/2019	#BAC	9:30:00 AM					N/A
6/4/2019	#BAC	11:30:00 AM					N/A
6/4/2019	#BAC	1:30:00 PM					N/A
6/4/2019	#BAC	3:30:00 PM					N/A
6/4/2019	#BARC	9:30:00 AM					N/A
6/4/2019	#BARC	11:30:00 AM					N/A
6/4/2019	#BARC	1:30:00 PM					N/A
6/4/2019	#BARC	3:30:00 PM					N/A
6/4/2019	#BHP	9:30:00 AM					N/A
6/4/2019	#BHP	11:30:00 AM					N/A
6/4/2019	#BHP	1:30:00 PM					N/A
6/4/2019	#BHP	3:30:00 PM					N/A
6/4/2019	#BIDU	9:30:00 AM					N/A
6/4/2019	#BIDU	11:30:00 AM					N/A
6/4/2019	#BIDU	1:30:00 PM					N/A
6/4/2019	#BIDU	3:30:00 PM					N/A
6/4/2019	#Bitcoin	9:30:00 AM	7914.5	7941.05			N/A
6/4/2019	#Bitcoin	11:30:00 AM	7887.7	7922.55			N/A

6/4/2019	#Bitcoin	1:30:00 PM	7946.06	7978.75			N/A
6/4/2019	#Bitcoin	3:30:00 PM	7878.8	7898.5			N/A
6/4/2019	#BK	9:30:00 AM					N/A
6/4/2019	#BK	11:30:00 AM					N/A
6/4/2019	#BK	1:30:00 PM					N/A
6/4/2019	#BK	3:30:00 PM					N/A
6/4/2019	#BLT	9:30:00 AM					N/A
6/4/2019	#BLT	11:30:00 AM					N/A
6/4/2019	#BLT	1:30:00 PM					N/A
6/4/2019	#BLT	3:30:00 PM					N/A
6/4/2019	#BP	9:30:00 AM					N/A
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6/4/2019	#BP	1:30:00 PM					N/A
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6/4/2019	#WDC	1:30:00 PM					N/A
6/4/2019	#WDC	3:30:00 PM					N/A
6/4/2019	#WFC	9:30:00 AM					N/A
6/4/2019	#WFC	11:30:00 AM					N/A
6/4/2019	#WFC	1:30:00 PM					N/A
6/4/2019	#WFC	3:30:00 PM					N/A
6/4/2019	#WMT	9:30:00 AM					N/A
6/4/2019	#WMT	11:30:00 AM					N/A
6/4/2019	#WMT	1:30:00 PM					N/A
6/4/2019	#WMT	3:30:00 PM					N/A
6/4/2019	#XOM	9:30:00 AM					N/A
6/4/2019	#XOM	11:30:00 AM					N/A
6/4/2019	#XOM	1:30:00 PM					N/A
6/4/2019	#XOM	3:30:00 PM					N/A

6/4/2019	#YHOO	9:30:00 AM					N/A
6/4/2019	#YHOO	11:30:00 AM					N/A
6/4/2019	#YHOO	1:30:00 PM					N/A
6/4/2019	#YHOO	3:30:00 PM					N/A
6/4/2019	#ZNGA	9:30:00 AM					N/A
6/4/2019	#ZNGA	11:30:00 AM					N/A
6/4/2019	#ZNGA	1:30:00 PM					N/A
6/4/2019	#ZNGA	3:30:00 PM					N/A
6/4/2019	AUDCAD	9:30:00 AM	0.9374	0.93795			N/A
6/4/2019	AUDCAD	11:30:00 AM	0.93768	0.93835			N/A
6/4/2019	AUDCAD	1:30:00 PM	0.9375	0.93816			N/A
6/4/2019	AUDCAD	3:30:00 PM	0.93724	0.93782			N/A
6/4/2019	AUDCAD.fx	9:30:00 AM	0.93774	0.93761			N/A
6/4/2019	AUDCAD.fx	11:30:00 AM	0.93802	0.93798			N/A
6/4/2019	AUDCAD.fx	1:30:00 PM	0.93783	0.93781			N/A
6/4/2019	AUDCAD.fx	3:30:00 PM	0.93757	0.93746			N/A
6/4/2019	AUDCHF	9:30:00 AM	0.69219	0.69288			N/A
6/4/2019	AUDCHF	11:30:00 AM	0.69284	0.69345			N/A
6/4/2019	AUDCHF	1:30:00 PM	0.69345	0.69412			N/A
6/4/2019	AUDCHF	3:30:00 PM	0.69342	0.69404			N/A
6/4/2019	AUDCHF.fx	9:30:00 AM	0.69253	0.69253			N/A
6/4/2019	AUDCHF.fx	11:30:00 AM	0.69318	0.6931			N/A
6/4/2019	AUDCHF.fx	1:30:00 PM	0.6938	0.69377			N/A
6/4/2019	AUDCHF.fx	3:30:00 PM	0.69376	0.69369			N/A
6/4/2019	AUDCZK	9:30:00 AM	15.968	15.984			N/A
6/4/2019	AUDCZK	11:30:00 AM	15.956	15.973			N/A
6/4/2019	AUDCZK	1:30:00 PM	15.976	15.99			N/A
6/4/2019	AUDCZK	3:30:00 PM	15.958	15.974			N/A
6/4/2019	AUDDKK	9:30:00 AM	4.6281	4.6328			N/A
6/4/2019	AUDDKK	11:30:00 AM	4.6292	4.6339			N/A
6/4/2019	AUDDKK	1:30:00 PM	4.6341	4.6389			N/A
6/4/2019	AUDDKK	3:30:00 PM	4.633	4.6377			N/A
6/4/2019	AUDHKD	9:30:00 AM	5.4692	5.473			N/A
6/4/2019	AUDHKD	11:30:00 AM	5.4698	5.4737			N/A

6/4/2019	AUDHKD	1:30:00 PM	5.4717	5.4754			N/A
6/4/2019	AUDHKD	3:30:00 PM	5.466	5.469			N/A
6/4/2019	AUDHUF	9:30:00 AM	200.1	200.33			N/A
6/4/2019	AUDHUF	11:30:00 AM	199.44	199.64			N/A
6/4/2019	AUDHUF	1:30:00 PM	199.95	200.12			N/A
6/4/2019	AUDHUF	3:30:00 PM	199.64	199.87			N/A
6/4/2019	AUDJPY	9:30:00 AM	75.287	75.353			N/A
6/4/2019	AUDJPY	11:30:00 AM	75.413	75.484			N/A
6/4/2019	AUDJPY	1:30:00 PM	75.411	75.478			N/A
6/4/2019	AUDJPY	3:30:00 PM	75.45	75.504			N/A
6/4/2019	AUDJPY.fx	9:30:00 AM	75.321	75.316			N/A
6/4/2019	AUDJPY.fx	11:30:00 AM	75.447	75.448			N/A
6/4/2019	AUDJPY.fx	1:30:00 PM	75.445	75.443			N/A
6/4/2019	AUDJPY.fx	3:30:00 PM	75.484	75.469			N/A
6/4/2019	AUDMXN	9:30:00 AM	13.7769	13.7847			N/A
6/4/2019	AUDMXN	11:30:00 AM	13.7345	13.7417			N/A
6/4/2019	AUDMXN	1:30:00 PM	13.7517	13.7578			N/A
6/4/2019	AUDMXN	3:30:00 PM	13.7077	13.7115			N/A
6/4/2019	AUDNOK	9:30:00 AM	6.0614	6.0663			N/A
6/4/2019	AUDNOK	11:30:00 AM	6.0667	6.0713			N/A
6/4/2019	AUDNOK	1:30:00 PM	6.0758	6.0808			N/A
6/4/2019	AUDNOK	3:30:00 PM	6.0726	6.0767			N/A
6/4/2019	AUDNOK.fx	9:30:00 AM	6.063	6.0647			N/A
6/4/2019	AUDNOK.fx	11:30:00 AM	6.0684	6.0695			N/A
6/4/2019	AUDNOK.fx	1:30:00 PM	6.0774	6.0791			N/A
6/4/2019	AUDNOK.fx	3:30:00 PM	6.0742	6.0751			N/A
6/4/2019	AUDNZD	9:30:00 AM	1.0586	1.05931			N/A
6/4/2019	AUDNZD	11:30:00 AM	1.05881	1.05964			N/A
6/4/2019	AUDNZD	1:30:00 PM	1.05853	1.05943			N/A
6/4/2019	AUDNZD	3:30:00 PM	1.05818	1.059			N/A
6/4/2019	AUDNZD.fx	9:30:00 AM	1.05903	1.05888			N/A
6/4/2019	AUDNZD.fx	11:30:00 AM	1.05926	1.05917			N/A
6/4/2019	AUDNZD.fx	1:30:00 PM	1.05897	1.05896			N/A
6/4/2019	AUDNZD.fx	3:30:00 PM	1.05863	1.05854			N/A

6/4/2019	AUDPLN	9:30:00 AM	2.6523	2.6554			N/A
6/4/2019	AUDPLN	11:30:00 AM	2.6516	2.6548			N/A
6/4/2019	AUDPLN	1:30:00 PM	2.6576	2.6601			N/A
6/4/2019	AUDPLN	3:30:00 PM	2.655	2.6581			N/A
6/4/2019	AUDSEK	9:30:00 AM	6.5895	6.5923			N/A
6/4/2019	AUDSEK	11:30:00 AM	6.5881	6.5908			N/A
6/4/2019	AUDSEK	1:30:00 PM	6.5952	6.5975			N/A
6/4/2019	AUDSEK	3:30:00 PM	6.5924	6.5951			N/A
6/4/2019	AUDSEK.fx	9:30:00 AM	6.585	6.5967			N/A
6/4/2019	AUDSEK.fx	11:30:00 AM	6.5836	6.5952			N/A
6/4/2019	AUDSEK.fx	1:30:00 PM	6.5906	6.602			N/A
6/4/2019	AUDSEK.fx	3:30:00 PM	6.5879	6.5996			N/A
6/4/2019	AUDSGD	9:30:00 AM	0.9553	0.9556			N/A
6/4/2019	AUDSGD	11:30:00 AM	0.9556	0.9559			N/A
6/4/2019	AUDSGD	1:30:00 PM	0.9556	0.9559			N/A
6/4/2019	AUDSGD	3:30:00 PM	0.9549	0.9552			N/A
6/4/2019	AUDSGD.fx	9:30:00 AM	0.95541	0.95548			N/A
6/4/2019	AUDSGD.fx	11:30:00 AM	0.95566	0.95575			N/A
6/4/2019	AUDSGD.fx	1:30:00 PM	0.95566	0.95577			N/A
6/4/2019	AUDSGD.fx	3:30:00 PM	0.95501	0.95506			N/A
6/4/2019	AUDUSD	9:30:00 AM	0.6979	0.69796			N/A
6/4/2019	AUDUSD	11:30:00 AM	0.69828	0.69837			N/A
6/4/2019	AUDUSD	1:30:00 PM	0.69841	0.69849			N/A
6/4/2019	AUDUSD	3:30:00 PM	0.69765	0.69765			N/A
6/4/2019	AUDUSD.fx	9:30:00 AM	0.69795	0.69791			N/A
6/4/2019	AUDUSD.fx	11:30:00 AM	0.69833	0.69832			N/A
6/4/2019	AUDUSD.fx	1:30:00 PM	0.69846	0.69843			N/A
6/4/2019	AUDUSD.fx	3:30:00 PM	0.6977	0.69759			N/A
6/4/2019	AUDZAR	9:30:00 AM	10.0721	10.0864			N/A
6/4/2019	AUDZAR	11:30:00 AM	10.0598	10.0727			N/A
6/4/2019	AUDZAR	1:30:00 PM	10.2056	10.2197			N/A
6/4/2019	AUDZAR	3:30:00 PM	10.225	10.2156			N/A
6/4/2019	AUS200.i	9:30:00 AM					N/A
6/4/2019	AUS200.i	11:30:00 AM	6343.48	6347.08			N/A

6/4/2019	AUS200.i	1:30:00 PM	6357.28	6359.78			N/A
6/4/2019	AUS200.i	3:30:00 PM	6364.28	6367.78			N/A
6/4/2019	BCHUSD	9:30:00 AM	403.14	404.79			N/A
6/4/2019	BCHUSD	11:30:00 AM	409.15	410.95			N/A
6/4/2019	BCHUSD	1:30:00 PM	407.3	409.26			N/A
6/4/2019	BCHUSD	3:30:00 PM	403.26	402.53			N/A
6/4/2019	CADCHF	9:30:00 AM	0.73829	0.73888			N/A
6/4/2019	CADCHF	11:30:00 AM	0.73866	0.73925			N/A
6/4/2019	CADCHF	1:30:00 PM	0.73947	0.74008			N/A
6/4/2019	CADCHF	3:30:00 PM	0.73964	0.74019			N/A
6/4/2019	CADCHF.fx	9:30:00 AM	0.73864	0.73853			N/A
6/4/2019	CADCHF.fx	11:30:00 AM	0.73901	0.7389			N/A
6/4/2019	CADCHF.fx	1:30:00 PM	0.73981	0.73973			N/A
6/4/2019	CADCHF.fx	3:30:00 PM	0.73999	0.73983			N/A
6/4/2019	CADCZK	9:30:00 AM	17.033	17.048			N/A
6/4/2019	CADCZK	11:30:00 AM	17.015	17.032			N/A
6/4/2019	CADCZK	1:30:00 PM	17.04	17.052			N/A
6/4/2019	CADCZK	3:30:00 PM	17.025	17.039			N/A
6/4/2019	CADDDKK	9:30:00 AM					N/A
6/4/2019	CADDDKK	11:30:00 AM	4.935	4.939			N/A
6/4/2019	CADDDKK	1:30:00 PM					N/A
6/4/2019	CADDDKK	3:30:00 PM					N/A
6/4/2019	CADHKD	9:30:00 AM	5.8341	5.8374			N/A
6/4/2019	CADHKD	11:30:00 AM	5.8331	5.837			N/A
6/4/2019	CADHKD	1:30:00 PM	5.8358	5.8395			N/A
6/4/2019	CADHKD	3:30:00 PM	5.831	5.8347			N/A
6/4/2019	CADHUF	9:30:00 AM	213.46	213.62			N/A
6/4/2019	CADHUF	11:30:00 AM	212.71	212.84			N/A
6/4/2019	CADHUF	1:30:00 PM	213.23	213.37			N/A
6/4/2019	CADHUF	3:30:00 PM	213.02	213.17			N/A
6/4/2019	CADJPY	9:30:00 AM	80.299	80.355			N/A
6/4/2019	CADJPY	11:30:00 AM	80.402	80.47			N/A
6/4/2019	CADJPY	1:30:00 PM	80.413	80.477			N/A
6/4/2019	CADJPY	3:30:00 PM	80.488	80.529			N/A

6/4/2019	CADJPY.fx	9:30:00 AM	80.332	80.319			N/A
6/4/2019	CADJPY.fx	11:30:00 AM	80.435	80.436			N/A
6/4/2019	CADJPY.fx	1:30:00 PM	80.447	80.442			N/A
6/4/2019	CADJPY.fx	3:30:00 PM	80.522	80.494			N/A
6/4/2019	CADMXN	9:30:00 AM	14.697	14.7034			N/A
6/4/2019	CADMXN	11:30:00 AM	14.6437	14.6541			N/A
6/4/2019	CADMXN	1:30:00 PM	14.6647	14.6737			N/A
6/4/2019	CADMXN	3:30:00 PM	14.6218	14.6292			N/A
6/4/2019	CADNOK	9:30:00 AM	6.4633	6.4681			N/A
6/4/2019	CADNOK	11:30:00 AM	6.4653	6.4691			N/A
6/4/2019	CADNOK	1:30:00 PM	6.4781	6.4823			N/A
6/4/2019	CADNOK	3:30:00 PM	6.4766	6.4805			N/A
6/4/2019	CADPLN	9:30:00 AM	2.8289	2.8308			N/A
6/4/2019	CADPLN	11:30:00 AM	2.8275	2.8295			N/A
6/4/2019	CADPLN	1:30:00 PM	2.8346	2.836			N/A
6/4/2019	CADPLN	3:30:00 PM	2.8323	2.8341			N/A
6/4/2019	CADSEK	9:30:00 AM	7.0253	7.0292			N/A
6/4/2019	CADSEK	11:30:00 AM	7.0225	7.0251			N/A
6/4/2019	CADSEK	1:30:00 PM	7.0308	7.0337			N/A
6/4/2019	CADSEK	3:30:00 PM	7.0299	7.0329			N/A
6/4/2019	CADSGD	9:30:00 AM	1.0183	1.0186			N/A
6/4/2019	CADSGD	11:30:00 AM	1.0183	1.0186			N/A
6/4/2019	CADSGD	1:30:00 PM	1.0183	1.0186			N/A
6/4/2019	CADSGD	3:30:00 PM	1.0181	1.0184			N/A
6/4/2019	CADZAR	9:30:00 AM	10.7432	10.7585			N/A
6/4/2019	CADZAR	11:30:00 AM	10.727	10.7408			N/A
6/4/2019	CADZAR	1:30:00 PM	10.8846	10.8996			N/A
6/4/2019	CADZAR	3:30:00 PM	10.907	10.8992			N/A
6/4/2019	CHFCZK	9:30:00 AM	23.067	23.08			N/A
6/4/2019	CHFCZK	11:30:00 AM	23.031	23.045			N/A
6/4/2019	CHFCZK	1:30:00 PM	23.036	23.05			N/A
6/4/2019	CHFCZK	3:30:00 PM	23.013	23.028			N/A
6/4/2019	CHFDKK	9:30:00 AM	6.685	6.688			N/A
6/4/2019	CHFDKK	11:30:00 AM	6.682	6.684			N/A

6/4/2019	CHFDKK	1:30:00 PM	6.682	6.685			N/A
6/4/2019	CHFDKK	3:30:00 PM	6.681	6.684			N/A
6/4/2019	CHFDKK.fx	9:30:00 AM	6.6836	6.6894			N/A
6/4/2019	CHFDKK.fx	11:30:00 AM	6.6802	6.6848			N/A
6/4/2019	CHFDKK.fx	1:30:00 PM	6.6806	6.6864			N/A
6/4/2019	CHFDKK.fx	3:30:00 PM	6.6795	6.6853			N/A
6/4/2019	CHFHKD	9:30:00 AM	7.8997	7.903			N/A
6/4/2019	CHFHKD	11:30:00 AM	7.8949	7.8979			N/A
6/4/2019	CHFHKD	1:30:00 PM	7.8895	7.8927			N/A
6/4/2019	CHFHKD	3:30:00 PM	7.8816	7.8852			N/A
6/4/2019	CHFHUF	9:30:00 AM	288.96	289.33			N/A
6/4/2019	CHFHUF	11:30:00 AM	287.81	288.09			N/A
6/4/2019	CHFHUF	1:30:00 PM	288.2	288.5			N/A
6/4/2019	CHFHUF	3:30:00 PM	287.83	288.19			N/A
6/4/2019	CHFJPY	9:30:00 AM	108.725	108.79			N/A
6/4/2019	CHFJPY	11:30:00 AM	108.82	108.878			N/A
6/4/2019	CHFJPY	1:30:00 PM	108.711	108.774			N/A
6/4/2019	CHFJPY	3:30:00 PM	108.779	108.834			N/A
6/4/2019	CHFJPY.fx	9:30:00 AM	108.759	108.757			N/A
6/4/2019	CHFJPY.fx	11:30:00 AM	108.853	108.844			N/A
6/4/2019	CHFJPY.fx	1:30:00 PM	108.744	108.74			N/A
6/4/2019	CHFJPY.fx	3:30:00 PM	108.811	108.799			N/A
6/4/2019	CHFMXN	9:30:00 AM	19.8975	19.9095			N/A
6/4/2019	CHFMXN	11:30:00 AM	19.8209	19.8305			N/A
6/4/2019	CHFMXN	1:30:00 PM	19.8262	19.8344			N/A
6/4/2019	CHFMXN	3:30:00 PM	19.7652	19.7698			N/A
6/4/2019	CHFNOK	9:30:00 AM	8.7524	8.7595			N/A
6/4/2019	CHFNOK	11:30:00 AM	8.7525	8.76			N/A
6/4/2019	CHFNOK	1:30:00 PM	8.7579	8.7643			N/A
6/4/2019	CHFNOK	3:30:00 PM	8.7539	8.7597			N/A
6/4/2019	CHFNOK.fx	9:30:00 AM	8.7559	8.75595			N/A
6/4/2019	CHFNOK.fx	11:30:00 AM	8.75608	8.75639			N/A
6/4/2019	CHFNOK.fx	1:30:00 PM	8.76146	8.7608			N/A
6/4/2019	CHFNOK.fx	3:30:00 PM	8.75763	8.7561			N/A

6/4/2019	CHFPLN	9:30:00 AM	3.8312	3.8335			N/A
6/4/2019	CHFPLN	11:30:00 AM	3.8265	3.8287			N/A
6/4/2019	CHFPLN	1:30:00 PM	3.8311	3.8336			N/A
6/4/2019	CHFPLN	3:30:00 PM	3.828	3.8308			N/A
6/4/2019	CHFPLN.fx	9:30:00 AM	3.82863	3.83555			N/A
6/4/2019	CHFPLN.fx	11:30:00 AM	3.82414	3.83106			N/A
6/4/2019	CHFPLN.fx	1:30:00 PM	3.82884	3.8358			N/A
6/4/2019	CHFPLN.fx	3:30:00 PM	3.82571	3.83313			N/A
6/4/2019	CHFSEK	9:30:00 AM	9.5133	9.5167			N/A
6/4/2019	CHFSEK	11:30:00 AM	9.503	9.5074			N/A
6/4/2019	CHFSEK	1:30:00 PM	9.5036	9.5073			N/A
6/4/2019	CHFSEK	3:30:00 PM	9.5014	9.5053			N/A
6/4/2019	CHFSGD	9:30:00 AM	1.3795	1.3799			N/A
6/4/2019	CHFSGD	11:30:00 AM	1.3788	1.3789			N/A
6/4/2019	CHFSGD	1:30:00 PM	1.3775	1.3778			N/A
6/4/2019	CHFSGD	3:30:00 PM	1.3766	1.3769			N/A
6/4/2019	CHFSGD.fx	9:30:00 AM	1.37966	1.37966			N/A
6/4/2019	CHFSGD.fx	11:30:00 AM	1.37893	1.37876			N/A
6/4/2019	CHFSGD.fx	1:30:00 PM	1.37773	1.37764			N/A
6/4/2019	CHFSGD.fx	3:30:00 PM	1.37676	1.37671			N/A
6/4/2019	CHFZAR	9:30:00 AM	14.5515	14.563			N/A
6/4/2019	CHFZAR	11:30:00 AM	14.5215	14.5327			N/A
6/4/2019	CHFZAR	1:30:00 PM	14.7188	14.7295			N/A
6/4/2019	CHFZAR	3:30:00 PM	14.7477	14.724			N/A
6/4/2019	CZKJPY	9:30:00 AM					N/A
6/4/2019	CZKJPY	11:30:00 AM	4.724	4.728			N/A
6/4/2019	CZKJPY	1:30:00 PM					N/A
6/4/2019	CZKJPY	3:30:00 PM					N/A
6/4/2019	DAX30.i	9:30:00 AM	11724.04	11722.04			N/A
6/4/2019	DAX30.i	11:30:00 AM	11822.29	11817.04			N/A
6/4/2019	DAX30.i	1:30:00 PM	11901.54	11900.29			N/A
6/4/2019	DAX30.i	3:30:00 PM	11953.54	11952.04			N/A
6/4/2019	DJ30.i	9:30:00 AM					N/A
6/4/2019	DJ30.i	11:30:00 AM					N/A

6/4/2019	DJ30.i	1:30:00 PM					N/A
6/4/2019	DJ30.i	3:30:00 PM					N/A
6/4/2019	DKKJPY	9:30:00 AM					N/A
6/4/2019	DKKJPY	11:30:00 AM	16.29	16.31			N/A
6/4/2019	DKKJPY	1:30:00 PM					N/A
6/4/2019	DKKJPY	3:30:00 PM	16.28	16.3			N/A
6/4/2019	EURAUD	9:30:00 AM	1.61186	1.61227			N/A
6/4/2019	EURAUD	11:30:00 AM	1.61147	1.61185			N/A
6/4/2019	EURAUD	1:30:00 PM	1.60972	1.61013			N/A
6/4/2019	EURAUD	3:30:00 PM	1.61017	1.61048			N/A
6/4/2019	EURAUD.fx	9:30:00 AM	1.61207	1.61206			N/A
6/4/2019	EURAUD.fx	11:30:00 AM	1.61169	1.61163			N/A
6/4/2019	EURAUD.fx	1:30:00 PM	1.60993	1.6099			N/A
6/4/2019	EURAUD.fx	3:30:00 PM	1.61034	1.61026			N/A
6/4/2019	EURCAD	9:30:00 AM	1.51186	1.51255			N/A
6/4/2019	EURCAD	11:30:00 AM	1.5119	1.51273			N/A
6/4/2019	EURCAD	1:30:00 PM	1.51006	1.51078			N/A
6/4/2019	EURCAD	3:30:00 PM	1.51006	1.51064			N/A
6/4/2019	EURCAD.fx	9:30:00 AM	1.51228	1.51213			N/A
6/4/2019	EURCAD.fx	11:30:00 AM	1.51231	1.51231			N/A
6/4/2019	EURCAD.fx	1:30:00 PM	1.51048	1.51035			N/A
6/4/2019	EURCAD.fx	3:30:00 PM	1.51049	1.51022			N/A
6/4/2019	EURCHF	9:30:00 AM	1.11686	1.11691			N/A
6/4/2019	EURCHF	11:30:00 AM	1.11758	1.11749			N/A
6/4/2019	EURCHF	1:30:00 PM	1.11734	1.1174			N/A
6/4/2019	EURCHF	3:30:00 PM	1.11753	1.11756			N/A
6/4/2019	EURCHF.fx	9:30:00 AM	1.11691	1.11686			N/A
6/4/2019	EURCHF.fx	11:30:00 AM	1.11764	1.11744			N/A
6/4/2019	EURCHF.fx	1:30:00 PM	1.1174	1.11734			N/A
6/4/2019	EURCHF.fx	3:30:00 PM	1.11758	1.1175			N/A
6/4/2019	EURCZK	9:30:00 AM	25.748	25.786			N/A
6/4/2019	EURCZK	11:30:00 AM					N/A
6/4/2019	EURCZK	1:30:00 PM	25.726	25.762			N/A
6/4/2019	EURCZK	3:30:00 PM	25.703	25.742			N/A

6/4/2019	EURDKK	9:30:00 AM	7.4654	7.4667			N/A
6/4/2019	EURDKK	11:30:00 AM	7.466	7.4673			N/A
6/4/2019	EURDKK	1:30:00 PM	7.4655	7.4667			N/A
6/4/2019	EURDKK	3:30:00 PM	7.4671	7.4681			N/A
6/4/2019	EURGBP	9:30:00 AM	0.88804	0.88807			N/A
6/4/2019	EURGBP	11:30:00 AM	0.88957	0.88933			N/A
6/4/2019	EURGBP	1:30:00 PM	0.88753	0.88767			N/A
6/4/2019	EURGBP	3:30:00 PM	0.88674	0.88669			N/A
6/4/2019	EURGBP.fx	9:30:00 AM	0.88808	0.88803			N/A
6/4/2019	EURGBP.fx	11:30:00 AM	0.88963	0.88928			N/A
6/4/2019	EURGBP.fx	1:30:00 PM	0.88756	0.88762			N/A
6/4/2019	EURGBP.fx	3:30:00 PM	0.88676	0.88664			N/A
6/4/2019	EURHKD	9:30:00 AM	8.8224	8.8272			N/A
6/4/2019	EURHKD	11:30:00 AM	8.8227	8.8274			N/A
6/4/2019	EURHKD	1:30:00 PM	8.816	8.8201			N/A
6/4/2019	EURHKD	3:30:00 PM	8.8085	8.8129			N/A
6/4/2019	EURHKD.fx	9:30:00 AM	8.82513	8.82433			N/A
6/4/2019	EURHKD.fx	11:30:00 AM	8.82555	8.82455			N/A
6/4/2019	EURHKD.fx	1:30:00 PM	8.81881	8.81729			N/A
6/4/2019	EURHKD.fx	3:30:00 PM	8.81121	8.8101			N/A
6/4/2019	EURHUF	9:30:00 AM	322.7	323.28			N/A
6/4/2019	EURHUF	11:30:00 AM	321.7	322.35			N/A
6/4/2019	EURHUF	1:30:00 PM	321.95	322.63			N/A
6/4/2019	EURHUF	3:30:00 PM	321.62	322.32			N/A
6/4/2019	EURHUF.fx	9:30:00 AM	322.989	323.14			N/A
6/4/2019	EURHUF.fx	11:30:00 AM	321.991	322.068			N/A
6/4/2019	EURHUF.fx	1:30:00 PM	322.243	322.346			N/A
6/4/2019	EURHUF.fx	3:30:00 PM	321.878	322.05			N/A
6/4/2019	EURJPY	9:30:00 AM	121.466	121.469			N/A
6/4/2019	EURJPY	11:30:00 AM	121.643	121.642			N/A
6/4/2019	EURJPY	1:30:00 PM	121.504	121.506			N/A
6/4/2019	EURJPY	3:30:00 PM	121.603	121.588			N/A
6/4/2019	EURJPY.fx	9:30:00 AM	121.469	121.464			N/A
6/4/2019	EURJPY.fx	11:30:00 AM	121.647	121.638			N/A

6/4/2019	EURJPY.fx	1:30:00 PM	121.507	121.502			N/A
6/4/2019	EURJPY.fx	3:30:00 PM	121.605	121.584			N/A
6/4/2019	EURMXN	9:30:00 AM	22.2255	22.239			N/A
6/4/2019	EURMXN	11:30:00 AM	22.1526	22.1678			N/A
6/4/2019	EURMXN	1:30:00 PM	22.1546	22.1675			N/A
6/4/2019	EURMXN	3:30:00 PM	22.0894	22.0968			N/A
6/4/2019	EURMXN.fx	9:30:00 AM	22.2337	22.2303			N/A
6/4/2019	EURMXN.fx	11:30:00 AM	22.1619	22.1587			N/A
6/4/2019	EURMXN.fx	1:30:00 PM	22.1626	22.1591			N/A
6/4/2019	EURMXN.fx	3:30:00 PM	22.0984	22.0877			N/A
6/4/2019	EURNOK	9:30:00 AM	9.7739	9.7853			N/A
6/4/2019	EURNOK	11:30:00 AM	9.7797	9.7904			N/A
6/4/2019	EURNOK	1:30:00 PM	9.784	9.795			N/A
6/4/2019	EURNOK	3:30:00 PM	9.7809	9.7913			N/A
6/4/2019	EURNOK.fx	9:30:00 AM	9.77961	9.77968			N/A
6/4/2019	EURNOK.fx	11:30:00 AM	9.78535	9.78468			N/A
6/4/2019	EURNOK.fx	1:30:00 PM	9.7894	9.78948			N/A
6/4/2019	EURNOK.fx	3:30:00 PM	9.78654	9.7856			N/A
6/4/2019	EURNZD	9:30:00 AM	1.70752	1.70805			N/A
6/4/2019	EURNZD	11:30:00 AM	1.70739	1.70813			N/A
6/4/2019	EURNZD	1:30:00 PM	1.70516	1.70585			N/A
6/4/2019	EURNZD	3:30:00 PM	1.70497	1.70572			N/A
6/4/2019	EURNZD.fx	9:30:00 AM	1.70795	1.70763			N/A
6/4/2019	EURNZD.fx	11:30:00 AM	1.70783	1.70769			N/A
6/4/2019	EURNZD.fx	1:30:00 PM	1.70559	1.70541			N/A
6/4/2019	EURNZD.fx	3:30:00 PM	1.70539	1.70528			N/A
6/4/2019	EURPLN	9:30:00 AM	4.2791	4.2813			N/A
6/4/2019	EURPLN	11:30:00 AM	4.2759	4.2791			N/A
6/4/2019	EURPLN	1:30:00 PM	4.281	4.2832			N/A
6/4/2019	EURPLN	3:30:00 PM	4.2778	4.2811			N/A
6/4/2019	EURPLN.fx	9:30:00 AM	4.27807	4.28192			N/A
6/4/2019	EURPLN.fx	11:30:00 AM	4.27527	4.27982			N/A
6/4/2019	EURPLN.fx	1:30:00 PM	4.28057	4.2838			N/A
6/4/2019	EURPLN.fx	3:30:00 PM	4.27728	4.28162			N/A

6/4/2019	EURRUB	9:30:00 AM					N/A
6/4/2019	EURRUB	11:30:00 AM	73.028	73.466			N/A
6/4/2019	EURRUB	1:30:00 PM	73.083	73.507			N/A
6/4/2019	EURRUB	3:30:00 PM	72.986	73.421			N/A
6/4/2019	EURSEK	9:30:00 AM	10.6275	10.6319			N/A
6/4/2019	EURSEK	11:30:00 AM	10.6223	10.6263			N/A
6/4/2019	EURSEK	1:30:00 PM	10.622	10.6259			N/A
6/4/2019	EURSEK	3:30:00 PM	10.6204	10.6247			N/A
6/4/2019	EURSEK.fx	9:30:00 AM	10.6295	10.63002			N/A
6/4/2019	EURSEK.fx	11:30:00 AM	10.62392	10.62477			N/A
6/4/2019	EURSEK.fx	1:30:00 PM	10.62356	10.62424			N/A
6/4/2019	EURSEK.fx	3:30:00 PM	10.62207	10.62291			N/A
6/4/2019	EURSGD	9:30:00 AM	1.5406	1.5414			N/A
6/4/2019	EURSGD	11:30:00 AM	1.5405	1.5414			N/A
6/4/2019	EURSGD	1:30:00 PM	1.539	1.5397			N/A
6/4/2019	EURSGD	3:30:00 PM	1.5382	1.539			N/A
6/4/2019	EURSGD.fx	9:30:00 AM	1.54089	1.54096			N/A
6/4/2019	EURSGD.fx	11:30:00 AM	1.54089	1.54096			N/A
6/4/2019	EURSGD.fx	1:30:00 PM	1.53935	1.53929			N/A
6/4/2019	EURSGD.fx	3:30:00 PM	1.53855	1.53859			N/A
6/4/2019	EURUSD	9:30:00 AM	1.12538	1.12543			N/A
6/4/2019	EURUSD	11:30:00 AM	1.12568	1.12573			N/A
6/4/2019	EURUSD	1:30:00 PM	1.12476	1.12472			N/A
6/4/2019	EURUSD	3:30:00 PM	1.12373	1.12374			N/A
6/4/2019	EURUSD.fx	9:30:00 AM	1.12558	1.12552			N/A
6/4/2019	EURUSD.fx	11:30:00 AM	1.12588	1.12582			N/A
6/4/2019	EURUSD.fx	1:30:00 PM	1.12496	1.12481			N/A
6/4/2019	EURUSD.fx	3:30:00 PM	1.12392	1.12383			N/A
6/4/2019	EURZAR	9:30:00 AM	16.2548	16.2719			N/A
6/4/2019	EURZAR	11:30:00 AM	16.2348	16.2492			N/A
6/4/2019	EURZAR	1:30:00 PM	16.4483	16.4645			N/A
6/4/2019	EURZAR	3:30:00 PM	16.4843	16.461			N/A
6/4/2019	EURZAR.fx	9:30:00 AM	16.25451	16.27268			N/A
6/4/2019	EURZAR.fx	11:30:00 AM	16.23456	16.24973			N/A

6/4/2019	EURZAR.fx	1:30:00 PM	16.44781	16.46501			N/A
6/4/2019	EURZAR.fx	3:30:00 PM	16.48146	16.46153			N/A
6/4/2019	GBPAUD	9:30:00 AM	1.81569	1.81626			N/A
6/4/2019	GBPAUD	11:30:00 AM	1.8126	1.81256			N/A
6/4/2019	GBPAUD	1:30:00 PM	1.81413	1.81487			N/A
6/4/2019	GBPAUD	3:30:00 PM	1.81647	1.81704			N/A
6/4/2019	GBPAUD.fx	9:30:00 AM	1.8161	1.81586			N/A
6/4/2019	GBPAUD.fx	11:30:00 AM	1.81299	1.81223			N/A
6/4/2019	GBPAUD.fx	1:30:00 PM	1.81454	1.81447			N/A
6/4/2019	GBPAUD.fx	3:30:00 PM	1.81687	1.81665			N/A
6/4/2019	GBPCAD	9:30:00 AM	1.70254	1.70307			N/A
6/4/2019	GBPCAD	11:30:00 AM	1.70013	1.70021			N/A
6/4/2019	GBPCAD	1:30:00 PM	1.70139	1.70201			N/A
6/4/2019	GBPCAD	3:30:00 PM	1.70302	1.70341			N/A
6/4/2019	GBPCAD.fx	9:30:00 AM	1.70296	1.70269			N/A
6/4/2019	GBPCAD.fx	11:30:00 AM	1.70052	1.69984			N/A
6/4/2019	GBPCAD.fx	1:30:00 PM	1.70178	1.70161			N/A
6/4/2019	GBPCAD.fx	3:30:00 PM	1.70341	1.70302			N/A
6/4/2019	GBPCHF	9:30:00 AM	1.25752	1.2578			N/A
6/4/2019	GBPCHF	11:30:00 AM	1.25645	1.25623			N/A
6/4/2019	GBPCHF	1:30:00 PM	1.2587	1.25908			N/A
6/4/2019	GBPCHF	3:30:00 PM	1.26017	1.26045			N/A
6/4/2019	GBPCHF.fx	9:30:00 AM	1.25771	1.2576			N/A
6/4/2019	GBPCHF.fx	11:30:00 AM	1.25664	1.25606			N/A
6/4/2019	GBPCHF.fx	1:30:00 PM	1.25888	1.25888			N/A
6/4/2019	GBPCHF.fx	3:30:00 PM	1.26035	1.26024			N/A
6/4/2019	GBPCZK	9:30:00 AM	29.005	29.024			N/A
6/4/2019	GBPCZK	11:30:00 AM	28.935	28.945			N/A
6/4/2019	GBPCZK	1:30:00 PM	28.994	29.012			N/A
6/4/2019	GBPCZK	3:30:00 PM	28.999	29.017			N/A
6/4/2019	GBPDKK	9:30:00 AM	8.405	8.415			N/A
6/4/2019	GBPDKK	11:30:00 AM	8.393	8.4			N/A
6/4/2019	GBPDKK	1:30:00 PM	8.408	8.42			N/A
6/4/2019	GBPDKK	3:30:00 PM	8.417	8.427			N/A

6/4/2019	GBPDKK.fx	9:30:00 AM	8.403	8.4154			N/A
6/4/2019	GBPDKK.fx	11:30:00 AM	8.391	8.4009			N/A
6/4/2019	GBPDKK.fx	1:30:00 PM	8.4069	8.4201			N/A
6/4/2019	GBPDKK.fx	3:30:00 PM	8.416	8.4275			N/A
6/4/2019	GBPHKD	9:30:00 AM	9.9334	9.9373			N/A
6/4/2019	GBPHKD	11:30:00 AM	9.918	9.9191			N/A
6/4/2019	GBPHKD	1:30:00 PM	9.9298	9.9346			N/A
6/4/2019	GBPHKD	3:30:00 PM	9.9316	9.936			N/A
6/4/2019	GBPHUF	9:30:00 AM	363.36	363.82			N/A
6/4/2019	GBPHUF	11:30:00 AM	361.57	361.87			N/A
6/4/2019	GBPHUF	1:30:00 PM	362.77	363.14			N/A
6/4/2019	GBPHUF	3:30:00 PM	362.72	363.1			N/A
6/4/2019	GBPJPY	9:30:00 AM	136.763	136.793			N/A
6/4/2019	GBPJPY	11:30:00 AM	136.769	136.744			N/A
6/4/2019	GBPJPY	1:30:00 PM	136.876	136.91			N/A
6/4/2019	GBPJPY	3:30:00 PM	137.114	137.133			N/A
6/4/2019	GBPJPY.fx	9:30:00 AM	136.782	136.774			N/A
6/4/2019	GBPJPY.fx	11:30:00 AM	136.788	136.727			N/A
6/4/2019	GBPJPY.fx	1:30:00 PM	136.895	136.891			N/A
6/4/2019	GBPJPY.fx	3:30:00 PM	137.133	137.113			N/A
6/4/2019	GBPMXN	9:30:00 AM	25.0212	25.033			N/A
6/4/2019	GBPMXN	11:30:00 AM	24.901	24.9082			N/A
6/4/2019	GBPMXN	1:30:00 PM	24.9554	24.9633			N/A
6/4/2019	GBPMXN	3:30:00 PM	24.9071	24.9074			N/A
6/4/2019	GBPNOK	9:30:00 AM	11.007	11.0172			N/A
6/4/2019	GBPNOK	11:30:00 AM	10.998	11.0035			N/A
6/4/2019	GBPNOK	1:30:00 PM	11.0238	11.0349			N/A
6/4/2019	GBPNOK	3:30:00 PM	11.0322	11.0403			N/A
6/4/2019	GBPNOK.fx	9:30:00 AM	11.01198	11.01215			N/A
6/4/2019	GBPNOK.fx	11:30:00 AM	11.00294	10.99893			N/A
6/4/2019	GBPNOK.fx	1:30:00 PM	11.02884	11.0298			N/A
6/4/2019	GBPNOK.fx	3:30:00 PM	11.03718	11.03529			N/A
6/4/2019	GBPNZD	9:30:00 AM	1.92298	1.92322			N/A
6/4/2019	GBPNZD	11:30:00 AM	1.91995	1.91999			N/A

6/4/2019	GBPNZD	1:30:00 PM	1.9212	1.92189			N/A
6/4/2019	GBPNZD	3:30:00 PM	1.92288	1.92343			N/A
6/4/2019	GBPNZD.fx	9:30:00 AM	1.92332	1.92283			N/A
6/4/2019	GBPNZD.fx	11:30:00 AM	1.92031	1.91966			N/A
6/4/2019	GBPNZD.fx	1:30:00 PM	1.92156	1.92152			N/A
6/4/2019	GBPNZD.fx	3:30:00 PM	1.92324	1.92305			N/A
6/4/2019	GBPPLN	9:30:00 AM	4.8193	4.82			N/A
6/4/2019	GBPPLN	11:30:00 AM	4.8092	4.8094			N/A
6/4/2019	GBPPLN	1:30:00 PM	4.824	4.825			N/A
6/4/2019	GBPPLN	3:30:00 PM	4.8256	4.8269			N/A
6/4/2019	GBPPLN.fx	9:30:00 AM	4.81724	4.82221			N/A
6/4/2019	GBPPLN.fx	11:30:00 AM	4.80696	4.81176			N/A
6/4/2019	GBPPLN.fx	1:30:00 PM	4.82196	4.82703			N/A
6/4/2019	GBPPLN.fx	3:30:00 PM	4.82362	4.82904			N/A
6/4/2019	GBPSEK	9:30:00 AM	11.9652	11.9737			N/A
6/4/2019	GBPSEK	11:30:00 AM	11.9425	11.9464			N/A
6/4/2019	GBPSEK	1:30:00 PM	11.9647	11.9735			N/A
6/4/2019	GBPSEK	3:30:00 PM	11.9758	11.9834			N/A
6/4/2019	GBPSEK.fx	9:30:00 AM	11.96134	11.97738			N/A
6/4/2019	GBPSEK.fx	11:30:00 AM	11.93835	11.95103			N/A
6/4/2019	GBPSEK.fx	1:30:00 PM	11.96089	11.97722			N/A
6/4/2019	GBPSEK.fx	3:30:00 PM	11.9721	11.98699			N/A
6/4/2019	GBPSGD	9:30:00 AM	1.7348	1.7355			N/A
6/4/2019	GBPSGD	11:30:00 AM	1.7323	1.7324			N/A
6/4/2019	GBPSGD	1:30:00 PM	1.7339	1.7345			N/A
6/4/2019	GBPSGD	3:30:00 PM	1.7348	1.7354			N/A
6/4/2019	GBPSGD.fx	9:30:00 AM	1.73303	1.73725			N/A
6/4/2019	GBPSGD.fx	11:30:00 AM	1.73047	1.7343			N/A
6/4/2019	GBPSGD.fx	1:30:00 PM	1.73208	1.73634			N/A
6/4/2019	GBPSGD.fx	3:30:00 PM	1.73298	1.73717			N/A
6/4/2019	GBPUSD	9:30:00 AM	1.26753	1.26738			N/A
6/4/2019	GBPUSD	11:30:00 AM	1.26597	1.26547			N/A
6/4/2019	GBPUSD	1:30:00 PM	1.26739	1.26727			N/A
6/4/2019	GBPUSD	3:30:00 PM	1.26748	1.26736			N/A

6/4/2019	GBPUSD.fx	9:30:00 AM	1.26751	1.26732			N/A
6/4/2019	GBPUSD.fx	11:30:00 AM	1.26602	1.26541			N/A
6/4/2019	GBPUSD.fx	1:30:00 PM	1.26745	1.2672			N/A
6/4/2019	GBPUSD.fx	3:30:00 PM	1.26753	1.26731			N/A
6/4/2019	GBPZAR	9:30:00 AM	18.3014	18.3262			N/A
6/4/2019	GBPZAR	11:30:00 AM	18.2504	18.267			N/A
6/4/2019	GBPZAR	1:30:00 PM	18.5279	18.5536			N/A
6/4/2019	GBPZAR	3:30:00 PM	18.5855	18.567			N/A
6/4/2019	GBPZAR.fx	9:30:00 AM	18.309	18.3194			N/A
6/4/2019	GBPZAR.fx	11:30:00 AM	18.2584	18.261			N/A
6/4/2019	GBPZAR.fx	1:30:00 PM	18.5329	18.5488			N/A
6/4/2019	GBPZAR.fx	3:30:00 PM	18.5915	18.5618			N/A
6/4/2019	GOLD	9:30:00 AM	1325.64	1325.96			N/A
6/4/2019	GOLD	11:30:00 AM	1328.56	1328.58			N/A
6/4/2019	GOLD	1:30:00 PM	1326.1	1326.31			N/A
6/4/2019	GOLD	3:30:00 PM	1322.12	1322			N/A
6/4/2019	HKDJPY	9:30:00 AM	13.76	13.77			N/A
6/4/2019	HKDJPY	11:30:00 AM	13.78	13.79			N/A
6/4/2019	HKDJPY	1:30:00 PM	13.78	13.79			N/A
6/4/2019	HKDJPY	3:30:00 PM	13.8	13.81			N/A
6/4/2019	HKDJPY.fx	9:30:00 AM	13.761	13.766			N/A
6/4/2019	HKDJPY.fx	11:30:00 AM	13.78	13.786			N/A
6/4/2019	HKDJPY.fx	1:30:00 PM	13.775	13.781			N/A
6/4/2019	HKDJPY.fx	3:30:00 PM	13.798	13.802			N/A
6/4/2019	HUFJPY	9:30:00 AM	0.3763	0.3766			N/A
6/4/2019	HUFJPY	11:30:00 AM	0.378	0.3783			N/A
6/4/2019	HUFJPY	1:30:00 PM	0.3772	0.3775			N/A
6/4/2019	HUFJPY	3:30:00 PM	0.378	0.3783			N/A
6/4/2019	JP225.i	9:30:00 AM	20342.81	20353.26			N/A
6/4/2019	JP225.i	11:30:00 AM	20442.81	20457.81			N/A
6/4/2019	JP225.i	1:30:00 PM	20480.31	20492.81			N/A
6/4/2019	JP225.i	3:30:00 PM	20507.81	20525.31			N/A
6/4/2019	MXNJPY	9:30:00 AM	5.47	5.47			N/A
6/4/2019	MXNJPY	11:30:00 AM	5.49	5.5			N/A

6/4/2019	MXNJPY	1:30:00 PM	5.48	5.49			N/A
6/4/2019	MXNJPY	3:30:00 PM	5.5	5.51			N/A
6/4/2019	NASDAQ.i	9:30:00 AM					N/A
6/4/2019	NASDAQ.i	11:30:00 AM					N/A
6/4/2019	NASDAQ.i	1:30:00 PM					N/A
6/4/2019	NASDAQ.i	3:30:00 PM					N/A
6/4/2019	NOKJPY	9:30:00 AM					N/A
6/4/2019	NOKJPY	11:30:00 AM	12.42	12.45			N/A
6/4/2019	NOKJPY	1:30:00 PM	12.4	12.43			N/A
6/4/2019	NOKJPY	3:30:00 PM	12.42	12.44			N/A
6/4/2019	NOKJPY.fx	9:30:00 AM	12.418	12.424			N/A
6/4/2019	NOKJPY.fx	11:30:00 AM	12.428	12.435			N/A
6/4/2019	NOKJPY.fx	1:30:00 PM	12.409	12.415			N/A
6/4/2019	NOKJPY.fx	3:30:00 PM	12.424	12.427			N/A
6/4/2019	NZDCAD	9:30:00 AM	0.88524	0.88577			N/A
6/4/2019	NZDCAD	11:30:00 AM	0.88521	0.88583			N/A
6/4/2019	NZDCAD	1:30:00 PM	0.88524	0.88592			N/A
6/4/2019	NZDCAD	3:30:00 PM	0.88536	0.88592			N/A
6/4/2019	NZDCAD.fx	9:30:00 AM	0.88556	0.88544			N/A
6/4/2019	NZDCAD.fx	11:30:00 AM	0.88554	0.88549			N/A
6/4/2019	NZDCAD.fx	1:30:00 PM	0.88557	0.88556			N/A
6/4/2019	NZDCAD.fx	3:30:00 PM	0.88569	0.88556			N/A
6/4/2019	NZDCHF	9:30:00 AM	0.65367	0.65429			N/A
6/4/2019	NZDCHF	11:30:00 AM	0.65408	0.65466			N/A
6/4/2019	NZDCHF	1:30:00 PM	0.65483	0.65548			N/A
6/4/2019	NZDCHF	3:30:00 PM	0.65499	0.65566			N/A
6/4/2019	NZDCHF.fx	9:30:00 AM	0.65401	0.65394			N/A
6/4/2019	NZDCHF.fx	11:30:00 AM	0.65443	0.65431			N/A
6/4/2019	NZDCHF.fx	1:30:00 PM	0.65517	0.65512			N/A
6/4/2019	NZDCHF.fx	3:30:00 PM	0.65533	0.65531			N/A
6/4/2019	NZDCZK	9:30:00 AM	15.083	15.091			N/A
6/4/2019	NZDCZK	11:30:00 AM	15.067	15.078			N/A
6/4/2019	NZDCZK	1:30:00 PM	15.089	15.097			N/A
6/4/2019	NZDCZK	3:30:00 PM	15.076	15.088			N/A

6/4/2019	NZDDKK	9:30:00 AM					N/A
6/4/2019	NZDDKK	11:30:00 AM					N/A
6/4/2019	NZDDKK	1:30:00 PM					N/A
6/4/2019	NZDDKK	3:30:00 PM					N/A
6/4/2019	NZDHKD	9:30:00 AM	5.1642	5.1671			N/A
6/4/2019	NZDHKD	11:30:00 AM	5.1639	5.1668			N/A
6/4/2019	NZDHKD	1:30:00 PM	5.1671	5.1698			N/A
6/4/2019	NZDHKD	3:30:00 PM	5.1635	5.1659			N/A
6/4/2019	NZDHUF	9:30:00 AM	188.92	189.18			N/A
6/4/2019	NZDHUF	11:30:00 AM	188.26	188.51			N/A
6/4/2019	NZDHUF	1:30:00 PM	188.78	189			N/A
6/4/2019	NZDHUF	3:30:00 PM	188.55	188.84			N/A
6/4/2019	NZDJPY	9:30:00 AM	71.097	71.156			N/A
6/4/2019	NZDJPY	11:30:00 AM	71.196	71.261			N/A
6/4/2019	NZDJPY	1:30:00 PM	71.21	71.277			N/A
6/4/2019	NZDJPY	3:30:00 PM	71.273	71.329			N/A
6/4/2019	NZDJPY.fx	9:30:00 AM	71.128	71.124			N/A
6/4/2019	NZDJPY.fx	11:30:00 AM	71.227	71.228			N/A
6/4/2019	NZDJPY.fx	1:30:00 PM	71.241	71.244			N/A
6/4/2019	NZDJPY.fx	3:30:00 PM	71.304	71.296			N/A
6/4/2019	NZDMXN	9:30:00 AM	13.0122	13.0132			N/A
6/4/2019	NZDMXN	11:30:00 AM	12.9678	12.9713			N/A
6/4/2019	NZDMXN	1:30:00 PM	12.9857	12.9891			N/A
6/4/2019	NZDMXN	3:30:00 PM	12.9499	12.9501			N/A
6/4/2019	NZDNOK	9:30:00 AM	5.7219	5.725			N/A
6/4/2019	NZDNOK	11:30:00 AM	5.7244	5.7264			N/A
6/4/2019	NZDNOK	1:30:00 PM	5.7357	5.7391			N/A
6/4/2019	NZDNOK	3:30:00 PM	5.7345	5.7376			N/A
6/4/2019	NZDPLN	9:30:00 AM	2.5042	2.5056			N/A
6/4/2019	NZDPLN	11:30:00 AM	2.5032	2.5045			N/A
6/4/2019	NZDPLN	1:30:00 PM	2.5098	2.5107			N/A
6/4/2019	NZDPLN	3:30:00 PM	2.5077	2.5089			N/A
6/4/2019	NZDSEK	9:30:00 AM	6.2179	6.2243			N/A
6/4/2019	NZDSEK	11:30:00 AM	6.2144	6.2213			N/A

6/4/2019	NZDSEK	1:30:00 PM	6.2232	6.2291			N/A
6/4/2019	NZDSEK	3:30:00 PM	6.2224	6.2292			N/A
6/4/2019	NZDSGD	9:30:00 AM	0.902	0.9025			N/A
6/4/2019	NZDSGD	11:30:00 AM	0.902	0.9026			N/A
6/4/2019	NZDSGD	1:30:00 PM	0.9022	0.9024			N/A
6/4/2019	NZDSGD	3:30:00 PM	0.9019	0.9025			N/A
6/4/2019	NZDSGD.fx	9:30:00 AM	0.902	0.90243			N/A
6/4/2019	NZDSGD.fx	11:30:00 AM	0.90194	0.9025			N/A
6/4/2019	NZDSGD.fx	1:30:00 PM	0.9022	0.90277			N/A
6/4/2019	NZDSGD.fx	3:30:00 PM	0.90188	0.90241			N/A
6/4/2019	NZDUSD	9:30:00 AM	0.65901	0.65902			N/A
6/4/2019	NZDUSD	11:30:00 AM	0.65916	0.65925			N/A
6/4/2019	NZDUSD	1:30:00 PM	0.65942	0.65953			N/A
6/4/2019	NZDUSD	3:30:00 PM	0.65897	0.659			N/A
6/4/2019	NZDUSD.fx	9:30:00 AM	0.65908	0.65903			N/A
6/4/2019	NZDUSD.fx	11:30:00 AM	0.65923	0.65925			N/A
6/4/2019	NZDUSD.fx	1:30:00 PM	0.65949	0.65954			N/A
6/4/2019	NZDUSD.fx	3:30:00 PM	0.65904	0.659			N/A
6/4/2019	NZDZAR	9:30:00 AM	9.5098	9.5247			N/A
6/4/2019	NZDZAR	11:30:00 AM	9.4963	9.5097			N/A
6/4/2019	NZDZAR	1:30:00 PM	9.6353	9.6516			N/A
6/4/2019	NZDZAR	3:30:00 PM	9.6568	9.651			N/A
6/4/2019	SEKJPY	9:30:00 AM	11.42	11.44			N/A
6/4/2019	SEKJPY	11:30:00 AM	11.45	11.46			N/A
6/4/2019	SEKJPY	1:30:00 PM	11.44	11.45			N/A
6/4/2019	SEKJPY	3:30:00 PM	11.45	11.46			N/A
6/4/2019	SEKJPY.fx	9:30:00 AM	11.417	11.436			N/A
6/4/2019	SEKJPY.fx	11:30:00 AM	11.439	11.458			N/A
6/4/2019	SEKJPY.fx	1:30:00 PM	11.428	11.446			N/A
6/4/2019	SEKJPY.fx	3:30:00 PM	11.438	11.455			N/A
6/4/2019	SGDJPY	9:30:00 AM	78.8	78.82			N/A
6/4/2019	SGDJPY	11:30:00 AM	78.94	78.95			N/A
6/4/2019	SGDJPY	1:30:00 PM	78.91	78.93			N/A
6/4/2019	SGDJPY	3:30:00 PM	79	79.02			N/A

6/4/2019	SILVER	9:30:00 AM	14.57	14.94			N/A
6/4/2019	SILVER	11:30:00 AM	14.6	14.98			N/A
6/4/2019	SILVER	1:30:00 PM	14.56	14.94			N/A
6/4/2019	SILVER	3:30:00 PM	14.53	14.9			N/A
6/4/2019	SPX500.i	9:30:00 AM	2748.99	2750.04			N/A
6/4/2019	SPX500.i	11:30:00 AM	2757.49	2758.54			N/A
6/4/2019	SPX500.i	1:30:00 PM	2762.49	2762.79			N/A
6/4/2019	SPX500.i	3:30:00 PM	2767.99	2768.54			N/A
6/4/2019	UK100.i	9:30:00 AM	7157.24	7156.91			N/A
6/4/2019	UK100.i	11:30:00 AM	7175.91	7176.41			N/A
6/4/2019	UK100.i	1:30:00 PM	7205.16	7205.91			N/A
6/4/2019	UK100.i	3:30:00 PM	7216.74	7216.16			N/A
6/4/2019	USDCAD	9:30:00 AM	1.34358	1.34356			N/A
6/4/2019	USDCAD	11:30:00 AM	1.34319	1.34333			N/A
6/4/2019	USDCAD	1:30:00 PM	1.3427	1.34282			N/A
6/4/2019	USDCAD	3:30:00 PM	1.34402	1.34385			N/A
6/4/2019	USDCAD.fx	9:30:00 AM	1.34361	1.34353			N/A
6/4/2019	USDCAD.fx	11:30:00 AM	1.34323	1.34329			N/A
6/4/2019	USDCAD.fx	1:30:00 PM	1.34273	1.34278			N/A
6/4/2019	USDCAD.fx	3:30:00 PM	1.34406	1.3438			N/A
6/4/2019	USDCHF	9:30:00 AM	0.99234	0.99233			N/A
6/4/2019	USDCHF	11:30:00 AM	0.99266	0.99257			N/A
6/4/2019	USDCHF	1:30:00 PM	0.99332	0.9933			N/A
6/4/2019	USDCHF	3:30:00 PM	0.99441	0.99436			N/A
6/4/2019	USDCHF.fx	9:30:00 AM	0.99238	0.99228			N/A
6/4/2019	USDCHF.fx	11:30:00 AM	0.9927	0.9925			N/A
6/4/2019	USDCHF.fx	1:30:00 PM	0.99337	0.99324			N/A
6/4/2019	USDCHF.fx	3:30:00 PM	0.99445	0.9943			N/A
6/4/2019	USDCZK	9:30:00 AM	22.9	22.922			N/A
6/4/2019	USDCZK	11:30:00 AM	22.874	22.896			N/A
6/4/2019	USDCZK	1:30:00 PM	22.897	22.914			N/A
6/4/2019	USDCZK	3:30:00 PM	22.897	22.918			N/A
6/4/2019	USDCZK.fx	9:30:00 AM	22.9087	22.913			N/A
6/4/2019	USDCZK.fx	11:30:00 AM	22.883	22.887			N/A

6/4/2019	USDCZK.fx	1:30:00 PM	22.906	22.905			N/A
6/4/2019	USDCZK.fx	3:30:00 PM	22.905	22.9092			N/A
6/4/2019	USDDKK	9:30:00 AM	6.6334	6.6371			N/A
6/4/2019	USDDKK	11:30:00 AM	6.6315	6.6354			N/A
6/4/2019	USDDKK	1:30:00 PM	6.6377	6.6409			N/A
6/4/2019	USDDKK	3:30:00 PM	6.6433	6.6466			N/A
6/4/2019	USDDKK.fx	9:30:00 AM	6.63379	6.63506			N/A
6/4/2019	USDDKK.fx	11:30:00 AM	6.63207	6.63323			N/A
6/4/2019	USDDKK.fx	1:30:00 PM	6.63813	6.63869			N/A
6/4/2019	USDDKK.fx	3:30:00 PM	6.64378	6.64465			N/A
6/4/2019	USDHKD	9:30:00 AM	7.8401	7.8404			N/A
6/4/2019	USDHKD	11:30:00 AM	7.8385	7.8385			N/A
6/4/2019	USDHKD	1:30:00 PM	7.8385	7.8387			N/A
6/4/2019	USDHKD	3:30:00 PM	7.8392	7.8393			N/A
6/4/2019	USDHKD.fx	9:30:00 AM	7.84009	7.84068			N/A
6/4/2019	USDHKD.fx	11:30:00 AM	7.83854	7.83855			N/A
6/4/2019	USDHKD.fx	1:30:00 PM	7.83882	7.83937			N/A
6/4/2019	USDHKD.fx	3:30:00 PM	7.83919	7.8398			N/A
6/4/2019	USDHUF	9:30:00 AM	286.81	287.24			N/A
6/4/2019	USDHUF	11:30:00 AM	285.83	286.23			N/A
6/4/2019	USDHUF	1:30:00 PM	286.34	286.72			N/A
6/4/2019	USDHUF	3:30:00 PM	286.26	286.7			N/A
6/4/2019	USDHUF.fx	9:30:00 AM	287.005	287.055			N/A
6/4/2019	USDHUF.fx	11:30:00 AM	286.033	286.028			N/A
6/4/2019	USDHUF.fx	1:30:00 PM	286.538	286.535			N/A
6/4/2019	USDHUF.fx	3:30:00 PM	286.453	286.509			N/A
6/4/2019	USDINR	9:30:00 AM	64.31	74.3			N/A
6/4/2019	USDINR	11:30:00 AM	64.29	74.28			N/A
6/4/2019	USDINR	1:30:00 PM					N/A
6/4/2019	USDINR	3:30:00 PM					N/A
6/4/2019	USDJPY	9:30:00 AM	107.924	107.918			N/A
6/4/2019	USDJPY	11:30:00 AM	108.04	108.047			N/A
6/4/2019	USDJPY	1:30:00 PM	108.016	108.017			N/A
6/4/2019	USDJPY	3:30:00 PM	108.201	108.184			N/A

6/4/2019	USDJPY.fx	9:30:00 AM	107.93	107.91			N/A
6/4/2019	USDJPY.fx	11:30:00 AM	108.046	108.04			N/A
6/4/2019	USDJPY.fx	1:30:00 PM	108.021	108.01			N/A
6/4/2019	USDJPY.fx	3:30:00 PM	108.206	108.177			N/A
6/4/2019	USDMXN	9:30:00 AM	19.753	19.754			N/A
6/4/2019	USDMXN	11:30:00 AM	19.681	19.684			N/A
6/4/2019	USDMXN	1:30:00 PM	19.7	19.702			N/A
6/4/2019	USDMXN	3:30:00 PM	19.659	19.657			N/A
6/4/2019	USDMXN.f	9:30:00 AM	19.7561	19.7501			N/A
6/4/2019	USDMXN.f	11:30:00 AM	19.685	19.6806			N/A
6/4/2019	USDMXN.f	1:30:00 PM	19.7029	19.6984			N/A
6/4/2019	USDMXN.f	3:30:00 PM	19.6639	19.6529			N/A
6/4/2019	USDNOK	9:30:00 AM	8.6849	8.6927			N/A
6/4/2019	USDNOK	11:30:00 AM	8.6876	8.6952			N/A
6/4/2019	USDNOK	1:30:00 PM	8.6988	8.7063			N/A
6/4/2019	USDNOK	3:30:00 PM	8.7042	8.7104			N/A
6/4/2019	USDNOK.fx	9:30:00 AM	8.68886	8.68804			N/A
6/4/2019	USDNOK.fx	11:30:00 AM	8.69171	8.69046			N/A
6/4/2019	USDNOK.fx	1:30:00 PM	8.70279	8.70179			N/A
6/4/2019	USDNOK.fx	3:30:00 PM	8.70839	8.70596			N/A
6/4/2019	USDPLN	9:30:00 AM	3.8022	3.803			N/A
6/4/2019	USDPLN	11:30:00 AM	3.7987	3.8003			N/A
6/4/2019	USDPLN	1:30:00 PM	3.8066	3.8069			N/A
6/4/2019	USDPLN	3:30:00 PM	3.8071	3.8084			N/A
6/4/2019	USDPLN.fx	9:30:00 AM	3.80117	3.80374			N/A
6/4/2019	USDPLN.fx	11:30:00 AM	3.79793	3.80103			N/A
6/4/2019	USDPLN.fx	1:30:00 PM	3.80587	3.8076			N/A
6/4/2019	USDPLN.fx	3:30:00 PM	3.80637	3.80913			N/A
6/4/2019	USDRUB	9:30:00 AM					N/A
6/4/2019	USDRUB	11:30:00 AM	64.977	65.371			N/A
6/4/2019	USDRUB	1:30:00 PM	65.079	65.46			N/A
6/4/2019	USDRUB	3:30:00 PM	65.056	65.443			N/A
6/4/2019	USDSEK	9:30:00 AM	9.4413	9.4448			N/A
6/4/2019	USDSEK	11:30:00 AM	9.4337	9.4374			N/A

6/4/2019	USDSEK	1:30:00 PM	9.442	9.4444			N/A
6/4/2019	USDSEK	3:30:00 PM	9.4487	9.4528			N/A
6/4/2019	USDSEK.fx	9:30:00 AM	9.44417	9.44274			N/A
6/4/2019	USDSEK.fx	11:30:00 AM	9.43622	9.43544			N/A
6/4/2019	USDSEK.fx	1:30:00 PM	9.44456	9.44256			N/A
6/4/2019	USDSEK.fx	3:30:00 PM	9.45121	9.45067			N/A
6/4/2019	USDSGD	9:30:00 AM	1.3688	1.3692			N/A
6/4/2019	USDSGD	11:30:00 AM	1.3684	1.3688			N/A
6/4/2019	USDSGD	1:30:00 PM	1.3682	1.3685			N/A
6/4/2019	USDSGD	3:30:00 PM	1.3688	1.3691			N/A
6/4/2019	USDSGD.fx	9:30:00 AM	1.36867	1.36919			N/A
6/4/2019	USDSGD.fx	11:30:00 AM	1.36834	1.36881			N/A
6/4/2019	USDSGD.fx	1:30:00 PM	1.36809	1.36854			N/A
6/4/2019	USDSGD.fx	3:30:00 PM	1.36866	1.3691			N/A
6/4/2019	USDZAR	9:30:00 AM	14.4414	14.4566			N/A
6/4/2019	USDZAR	11:30:00 AM	14.419	14.434			N/A
6/4/2019	USDZAR	1:30:00 PM	14.6228	14.6375			N/A
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6/4/2019	USDZAR.fx	11:30:00 AM	14.42589	14.42752			N/A
6/4/2019	USDZAR.fx	1:30:00 PM					N/A
6/4/2019	USDZAR.fx	3:30:00 PM					N/A
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6/4/2019	XAUUSD	11:30:00 AM	1328.55	1328.56			N/A
6/4/2019	XAUUSD	1:30:00 PM	1326.1	1326.3			N/A
6/4/2019	XAUUSD	3:30:00 PM	1322.12	1322			N/A
6/4/2019	ZARJPY	9:30:00 AM	7.45	7.47			N/A
6/4/2019	ZARJPY	11:30:00 AM	7.47	7.49			N/A
6/4/2019	ZARJPY	1:30:00 PM	7.37	7.38			N/A
6/4/2019	ZARJPY	3:30:00 PM	7.37	7.38			N/A
6/4/2019	ZARJPY.fx	9:30:00 AM	7.466	7.47			N/A
6/4/2019	ZARJPY.fx	11:30:00 AM	7.487	7.49			N/A
6/4/2019	ZARJPY.fx	1:30:00 PM	7.381	7.385			N/A
6/4/2019	ZARJPY.fx	3:30:00 PM	7.389	7.374			N/A

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6/5/2019	#ORAN	3:30:00 PM					N/A
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6/5/2019	#QCOM	11:30:00 AM					N/A
6/5/2019	#QCOM	1:30:00 PM					N/A
6/5/2019	#QCOM	3:30:00 PM					N/A

6/5/2019	#QQQ	9:30:00 AM					N/A
6/5/2019	#QQQ	11:30:00 AM					N/A
6/5/2019	#QQQ	1:30:00 PM					N/A
6/5/2019	#QQQ	3:30:00 PM					N/A
6/5/2019	#Ripple	9:30:00 AM	0.3917	0.3955			N/A
6/5/2019	#Ripple	11:30:00 AM	0.3996	0.4042			N/A
6/5/2019	#Ripple	1:30:00 PM	0.4016	0.4062			N/A
6/5/2019	#Ripple	3:30:00 PM	0.4003	0.4053			N/A
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6/5/2019	#S	11:30:00 AM					N/A
6/5/2019	#S	1:30:00 PM					N/A
6/5/2019	#S	3:30:00 PM					N/A
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6/5/2019	#SPY	1:30:00 PM					N/A
6/5/2019	#SPY	3:30:00 PM					N/A
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6/5/2019	#T	3:30:00 PM					N/A
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6/5/2019	#TEVA	3:30:00 PM					N/A
6/5/2019	#TRI	9:30:00 AM					N/A
6/5/2019	#TRI	11:30:00 AM					N/A

6/5/2019	#TRI	1:30:00 PM					N/A
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6/5/2019	#TRV	11:30:00 AM					N/A
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6/5/2019	#TSCO	1:30:00 PM					N/A
6/5/2019	#TSCO	3:30:00 PM					N/A
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6/5/2019	#UBS	3:30:00 PM					N/A
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6/5/2019	#UL	3:30:00 PM					N/A
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6/5/2019	#UPS	1:30:00 PM					N/A
6/5/2019	#UPS	3:30:00 PM					N/A
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6/5/2019	#UTX	11:30:00 AM					N/A
6/5/2019	#UTX	1:30:00 PM					N/A
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6/5/2019	#V	9:30:00 AM					N/A
6/5/2019	#V	11:30:00 AM					N/A
6/5/2019	#V	1:30:00 PM					N/A
6/5/2019	#V	3:30:00 PM					N/A
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6/5/2019	#WFC	1:30:00 PM					N/A
6/5/2019	#WFC	3:30:00 PM					N/A
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6/5/2019	#WMT	11:30:00 AM					N/A
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6/5/2019	#XOM	11:30:00 AM					N/A
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6/5/2019	#YHOO	11:30:00 AM					N/A
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6/5/2019	#YHOO	3:30:00 PM					N/A
6/5/2019	#ZNGA	9:30:00 AM					N/A
6/5/2019	#ZNGA	11:30:00 AM					N/A

6/5/2019	#ZNGA	1:30:00 PM					N/A
6/5/2019	#ZNGA	3:30:00 PM					N/A
6/5/2019	AUDCAD	9:30:00 AM	0.93683	0.93725			N/A
6/5/2019	AUDCAD	11:30:00 AM	0.93613	0.93676			N/A
6/5/2019	AUDCAD	1:30:00 PM	0.93576	0.93638			N/A
6/5/2019	AUDCAD	3:30:00 PM	0.93583	0.93649			N/A
6/5/2019	AUDCAD.fx	9:30:00 AM	0.93716	0.93691			N/A
6/5/2019	AUDCAD.fx	11:30:00 AM	0.93646	0.93642			N/A
6/5/2019	AUDCAD.fx	1:30:00 PM	0.93613	0.93604			N/A
6/5/2019	AUDCAD.fx	3:30:00 PM	0.93615	0.93616			N/A
6/5/2019	AUDCHF	9:30:00 AM	0.69334	0.69392			N/A
6/5/2019	AUDCHF	11:30:00 AM	0.69415	0.69478			N/A
6/5/2019	AUDCHF	1:30:00 PM	0.69386	0.69456			N/A
6/5/2019	AUDCHF	3:30:00 PM	0.69001	0.69059			N/A
6/5/2019	AUDCHF.fx	9:30:00 AM	0.69368	0.69357			N/A
6/5/2019	AUDCHF.fx	11:30:00 AM	0.69449	0.69444			N/A
6/5/2019	AUDCHF.fx	1:30:00 PM	0.69421	0.69422			N/A
6/5/2019	AUDCHF.fx	3:30:00 PM	0.69035	0.69025			N/A
6/5/2019	AUDCZK	9:30:00 AM	15.952	15.965			N/A
6/5/2019	AUDCZK	11:30:00 AM	15.918	15.935			N/A
6/5/2019	AUDCZK	1:30:00 PM	15.919	15.935			N/A
6/5/2019	AUDCZK	3:30:00 PM	15.858	15.874			N/A
6/5/2019	AUDDKK	9:30:00 AM	4.6397	4.6437			N/A
6/5/2019	AUDDKK	11:30:00 AM	4.6341	4.6386			N/A
6/5/2019	AUDDKK	1:30:00 PM	4.6355	4.6402			N/A
6/5/2019	AUDDKK	3:30:00 PM	4.6239	4.6281			N/A
6/5/2019	AUDHKD	9:30:00 AM	5.4891	5.4914			N/A
6/5/2019	AUDHKD	11:30:00 AM	5.4842	5.4881			N/A
6/5/2019	AUDHKD	1:30:00 PM	5.4861	5.4896			N/A
6/5/2019	AUDHKD	3:30:00 PM	5.4827	5.4863			N/A
6/5/2019	AUDHUF	9:30:00 AM	199.84	200.05			N/A
6/5/2019	AUDHUF	11:30:00 AM	199.52	199.76			N/A
6/5/2019	AUDHUF	1:30:00 PM	199.47	199.7			N/A
6/5/2019	AUDHUF	3:30:00 PM	198.82	199.05			N/A

6/5/2019	AUDJPY	9:30:00 AM	75.595	75.648			N/A
6/5/2019	AUDJPY	11:30:00 AM	75.757	75.809			N/A
6/5/2019	AUDJPY	1:30:00 PM	75.811	75.879			N/A
6/5/2019	AUDJPY	3:30:00 PM	75.455	75.52			N/A
6/5/2019	AUDJPY.fx	9:30:00 AM	75.629	75.612			N/A
6/5/2019	AUDJPY.fx	11:30:00 AM	75.791	75.774			N/A
6/5/2019	AUDJPY.fx	1:30:00 PM	75.844	75.844			N/A
6/5/2019	AUDJPY.fx	3:30:00 PM	75.488	75.485			N/A
6/5/2019	AUDMXN	9:30:00 AM	13.7268	13.7356			N/A
6/5/2019	AUDMXN	11:30:00 AM	13.6904	13.6922			N/A
6/5/2019	AUDMXN	1:30:00 PM	13.6806	13.6831			N/A
6/5/2019	AUDMXN	3:30:00 PM	13.7258	13.7296			N/A
6/5/2019	AUDNOK	9:30:00 AM	6.0808	6.0846			N/A
6/5/2019	AUDNOK	11:30:00 AM	6.0747	6.0794			N/A
6/5/2019	AUDNOK	1:30:00 PM	6.0708	6.0758			N/A
6/5/2019	AUDNOK	3:30:00 PM	6.0575	6.0628			N/A
6/5/2019	AUDNOK.fx	9:30:00 AM	6.0824	6.0829			N/A
6/5/2019	AUDNOK.fx	11:30:00 AM	6.0763	6.0776			N/A
6/5/2019	AUDNOK.fx	1:30:00 PM	6.0724	6.074			N/A
6/5/2019	AUDNOK.fx	3:30:00 PM	6.0591	6.0611			N/A
6/5/2019	AUDNZD	9:30:00 AM	1.05341	1.05411			N/A
6/5/2019	AUDNZD	11:30:00 AM	1.05368	1.05455			N/A
6/5/2019	AUDNZD	1:30:00 PM	1.05347	1.05435			N/A
6/5/2019	AUDNZD	3:30:00 PM	1.05009	1.05094			N/A
6/5/2019	AUDNZD.fx	9:30:00 AM	1.05386	1.05365			N/A
6/5/2019	AUDNZD.fx	11:30:00 AM	1.05412	1.05409			N/A
6/5/2019	AUDNZD.fx	1:30:00 PM	1.0539	1.05389			N/A
6/5/2019	AUDNZD.fx	3:30:00 PM	1.05052	1.0505			N/A
6/5/2019	AUDPLN	9:30:00 AM	2.6584	2.6613			N/A
6/5/2019	AUDPLN	11:30:00 AM	2.6539	2.6571			N/A
6/5/2019	AUDPLN	1:30:00 PM	2.6564	2.6594			N/A
6/5/2019	AUDPLN	3:30:00 PM	2.6476	2.6506			N/A
6/5/2019	AUDSEK	9:30:00 AM	6.5992	6.6008			N/A
6/5/2019	AUDSEK	11:30:00 AM	6.5933	6.5946			N/A

6/5/2019	AUDSEK	1:30:00 PM	6.5996	6.6023			N/A
6/5/2019	AUDSEK	3:30:00 PM	6.5797	6.5825			N/A
6/5/2019	AUDSEK.fx	9:30:00 AM	6.5947	6.6053			N/A
6/5/2019	AUDSEK.fx	11:30:00 AM	6.5888	6.599			N/A
6/5/2019	AUDSEK.fx	1:30:00 PM	6.5951	6.6067			N/A
6/5/2019	AUDSEK.fx	3:30:00 PM	6.5748	6.5869			N/A
6/5/2019	AUDSGD	9:30:00 AM	0.9549	0.9551			N/A
6/5/2019	AUDSGD	11:30:00 AM	0.9547	0.9548			N/A
6/5/2019	AUDSGD	1:30:00 PM	0.9549	0.9552			N/A
6/5/2019	AUDSGD	3:30:00 PM	0.9536	0.9538			N/A
6/5/2019	AUDSGD.fx	9:30:00 AM	0.95503	0.95497			N/A
6/5/2019	AUDSGD.fx	11:30:00 AM	0.95479	0.95473			N/A
6/5/2019	AUDSGD.fx	1:30:00 PM	0.95498	0.95508			N/A
6/5/2019	AUDSGD.fx	3:30:00 PM	0.9537	0.95373			N/A
6/5/2019	AUDUSD	9:30:00 AM	0.70032	0.70029			N/A
6/5/2019	AUDUSD	11:30:00 AM	0.69991	0.70004			N/A
6/5/2019	AUDUSD	1:30:00 PM	0.70019	0.70023			N/A
6/5/2019	AUDUSD	3:30:00 PM	0.69955	0.6996			N/A
6/5/2019	AUDUSD.fx	9:30:00 AM	0.70037	0.70022			N/A
6/5/2019	AUDUSD.fx	11:30:00 AM	0.69996	0.69998			N/A
6/5/2019	AUDUSD.fx	1:30:00 PM	0.70024	0.70017			N/A
6/5/2019	AUDUSD.fx	3:30:00 PM	0.69959	0.69955			N/A
6/5/2019	AUDZAR	9:30:00 AM	10.2742	10.2783			N/A
6/5/2019	AUDZAR	11:30:00 AM	10.311	10.3269			N/A
6/5/2019	AUDZAR	1:30:00 PM	10.294	10.304			N/A
6/5/2019	AUDZAR	3:30:00 PM	10.2751	10.2885			N/A
6/5/2019	AUS200.i	9:30:00 AM	6355.94	6360.44			N/A
6/5/2019	AUS200.i	11:30:00 AM	6374.94	6377.44			N/A
6/5/2019	AUS200.i	1:30:00 PM	6383.84	6386.94			N/A
6/5/2019	AUS200.i	3:30:00 PM	6372.94	6376.94			N/A
6/5/2019	BCHUSD	9:30:00 AM	396.77	397.05			N/A
6/5/2019	BCHUSD	11:30:00 AM	416.62	418.04			N/A
6/5/2019	BCHUSD	1:30:00 PM	419.65	421.22			N/A
6/5/2019	BCHUSD	3:30:00 PM	411.41	413.34			N/A

6/5/2019	CADCHF	9:30:00 AM	0.73991	0.74053			N/A
6/5/2019	CADCHF	11:30:00 AM	0.74132	0.74187			N/A
6/5/2019	CADCHF	1:30:00 PM	0.74128	0.74198			N/A
6/5/2019	CADCHF	3:30:00 PM	0.73717	0.73766			N/A
6/5/2019	CADCHF.fx	9:30:00 AM	0.74025	0.74018			N/A
6/5/2019	CADCHF.fx	11:30:00 AM	0.74166	0.74152			N/A
6/5/2019	CADCHF.fx	1:30:00 PM	0.74162	0.74163			N/A
6/5/2019	CADCHF.fx	3:30:00 PM	0.7375	0.73732			N/A
6/5/2019	CADCZK	9:30:00 AM	17.027	17.043			N/A
6/5/2019	CADCZK	11:30:00 AM	17.002	17.018			N/A
6/5/2019	CADCZK	1:30:00 PM	17.009	17.025			N/A
6/5/2019	CADCZK	3:30:00 PM	16.942	16.957			N/A
6/5/2019	CADDKK	9:30:00 AM	4.952	4.956			N/A
6/5/2019	CADDKK	11:30:00 AM	4.948	4.952			N/A
6/5/2019	CADDKK	1:30:00 PM					N/A
6/5/2019	CADDKK	3:30:00 PM	4.939	4.943			N/A
6/5/2019	CADHKD	9:30:00 AM	5.8582	5.8621			N/A
6/5/2019	CADHKD	11:30:00 AM	5.8578	5.8617			N/A
6/5/2019	CADHKD	1:30:00 PM	5.8617	5.8653			N/A
6/5/2019	CADHKD	3:30:00 PM	5.8572	5.8612			N/A
6/5/2019	CADHUF	9:30:00 AM	213.33	213.48			N/A
6/5/2019	CADHUF	11:30:00 AM	213.14	213.3			N/A
6/5/2019	CADHUF	1:30:00 PM	213.16	213.32			N/A
6/5/2019	CADHUF	3:30:00 PM	212.43	212.61			N/A
6/5/2019	CADJPY	9:30:00 AM	80.671	80.739			N/A
6/5/2019	CADJPY	11:30:00 AM	80.906	80.95			N/A
6/5/2019	CADJPY	1:30:00 PM	80.992	81.058			N/A
6/5/2019	CADJPY	3:30:00 PM	80.604	80.667			N/A
6/5/2019	CADJPY.fx	9:30:00 AM	80.704	80.703			N/A
6/5/2019	CADJPY.fx	11:30:00 AM	80.94	80.915			N/A
6/5/2019	CADJPY.fx	1:30:00 PM	81.026	81.022			N/A
6/5/2019	CADJPY.fx	3:30:00 PM	80.636	80.633			N/A
6/5/2019	CADMXN	9:30:00 AM	14.6512	14.6613			N/A
6/5/2019	CADMXN	11:30:00 AM	14.6232	14.6242			N/A

6/5/2019	CADMXN	1:30:00 PM	14.6181	14.6201			N/A
6/5/2019	CADMXN	3:30:00 PM	14.6635	14.6687			N/A
6/5/2019	CADNOK	9:30:00 AM	6.4882	6.4909			N/A
6/5/2019	CADNOK	11:30:00 AM	6.4833	6.488			N/A
6/5/2019	CADNOK	1:30:00 PM	6.4845	6.4887			N/A
6/5/2019	CADNOK	3:30:00 PM	6.4699	6.4749			N/A
6/5/2019	CADPLN	9:30:00 AM	2.8369	2.8387			N/A
6/5/2019	CADPLN	11:30:00 AM	2.8345	2.8361			N/A
6/5/2019	CADPLN	1:30:00 PM	2.8383	2.8399			N/A
6/5/2019	CADPLN	3:30:00 PM	2.8287	2.8304			N/A
6/5/2019	CADSEK	9:30:00 AM	7.04	7.0419			N/A
6/5/2019	CADSEK	11:30:00 AM	7.0391	7.0409			N/A
6/5/2019	CADSEK	1:30:00 PM	7.0484	7.0517			N/A
6/5/2019	CADSEK	3:30:00 PM	7.0292	7.0332			N/A
6/5/2019	CADSGD	9:30:00 AM	1.0186	1.0189			N/A
6/5/2019	CADSGD	11:30:00 AM	1.019	1.0193			N/A
6/5/2019	CADSGD	1:30:00 PM	1.0195	1.0198			N/A
6/5/2019	CADSGD	3:30:00 PM					N/A
6/5/2019	CADZAR	9:30:00 AM	10.9652	10.9714			N/A
6/5/2019	CADZAR	11:30:00 AM	11.0121	11.0294			N/A
6/5/2019	CADZAR	1:30:00 PM	10.9991	11.0093			N/A
6/5/2019	CADZAR	3:30:00 PM	10.9768	10.9922			N/A
6/5/2019	CHFCZK	9:30:00 AM	23.006	23.022			N/A
6/5/2019	CHFCZK	11:30:00 AM	22.932	22.946			N/A
6/5/2019	CHFCZK	1:30:00 PM	22.939	22.955			N/A
6/5/2019	CHFCZK	3:30:00 PM	22.971	22.986			N/A
6/5/2019	CHFDKK	9:30:00 AM	6.69	6.693			N/A
6/5/2019	CHFDKK	11:30:00 AM	6.675	6.677			N/A
6/5/2019	CHFDKK	1:30:00 PM	6.679	6.683			N/A
6/5/2019	CHFDKK	3:30:00 PM	6.7	6.703			N/A
6/5/2019	CHFDKK.fx	9:30:00 AM	6.6885	6.6945			N/A
6/5/2019	CHFDKK.fx	11:30:00 AM	6.6733	6.6787			N/A
6/5/2019	CHFDKK.fx	1:30:00 PM	6.6775	6.6838			N/A
6/5/2019	CHFDKK.fx	3:30:00 PM	6.6984	6.7039			N/A

6/5/2019	CHFHKD	9:30:00 AM	7.9151	7.919			N/A
6/5/2019	CHFHKD	11:30:00 AM	7.9	7.903			N/A
6/5/2019	CHFHKD	1:30:00 PM	7.9052	7.9084			N/A
6/5/2019	CHFHKD	3:30:00 PM	7.941	7.9447			N/A
6/5/2019	CHFHUF	9:30:00 AM	288.12	288.49			N/A
6/5/2019	CHFHUF	11:30:00 AM	287.35	287.72			N/A
6/5/2019	CHFHUF	1:30:00 PM	287.36	287.74			N/A
6/5/2019	CHFHUF	3:30:00 PM	287.93	288.3			N/A
6/5/2019	CHFJPY	9:30:00 AM	108.993	109.059			N/A
6/5/2019	CHFJPY	11:30:00 AM	109.094	109.145			N/A
6/5/2019	CHFJPY	1:30:00 PM	109.222	109.284			N/A
6/5/2019	CHFJPY	3:30:00 PM	109.321	109.384			N/A
6/5/2019	CHFJPY.fx	9:30:00 AM	109.026	109.024			N/A
6/5/2019	CHFJPY.fx	11:30:00 AM	109.127	109.111			N/A
6/5/2019	CHFJPY.fx	1:30:00 PM	109.254	109.25			N/A
6/5/2019	CHFJPY.fx	3:30:00 PM	109.353	109.351			N/A
6/5/2019	CHFMXN	9:30:00 AM	19.794	19.8083			N/A
6/5/2019	CHFMXN	11:30:00 AM	19.7197	19.7204			N/A
6/5/2019	CHFMXN	1:30:00 PM	19.7107	19.7154			N/A
6/5/2019	CHFMXN	3:30:00 PM	19.8788	19.8848			N/A
6/5/2019	CHFNOK	9:30:00 AM	8.7664	8.7721			N/A
6/5/2019	CHFNOK	11:30:00 AM	8.7474	8.7538			N/A
6/5/2019	CHFNOK	1:30:00 PM	8.7449	8.752			N/A
6/5/2019	CHFNOK	3:30:00 PM	8.7754	8.782			N/A
6/5/2019	CHFNOK.fx	9:30:00 AM	8.76998	8.76865			N/A
6/5/2019	CHFNOK.fx	11:30:00 AM	8.75089	8.75012			N/A
6/5/2019	CHFNOK.fx	1:30:00 PM	8.74846	8.74841			N/A
6/5/2019	CHFNOK.fx	3:30:00 PM	8.77908	8.77872			N/A
6/5/2019	CHFPLN	9:30:00 AM	3.8329	3.8359			N/A
6/5/2019	CHFPLN	11:30:00 AM	3.8224	3.8252			N/A
6/5/2019	CHFPLN	1:30:00 PM	3.8271	3.83			N/A
6/5/2019	CHFPLN	3:30:00 PM	3.8363	3.8392			N/A
6/5/2019	CHFPLN.fx	9:30:00 AM	3.83044	3.83833			N/A
6/5/2019	CHFPLN.fx	11:30:00 AM	3.81996	3.82743			N/A

6/5/2019	CHFPLN.fx	1:30:00 PM	3.82474	3.83234			N/A
6/5/2019	CHFPLN.fx	3:30:00 PM	3.83405	3.84141			N/A
6/5/2019	CHFSEK	9:30:00 AM	9.5109	9.5129			N/A
6/5/2019	CHFSEK	11:30:00 AM	9.4924	9.495			N/A
6/5/2019	CHFSEK	1:30:00 PM	9.505	9.5088			N/A
6/5/2019	CHFSEK	3:30:00 PM	9.531	9.5334			N/A
6/5/2019	CHFSGD	9:30:00 AM	1.3766	1.377			N/A
6/5/2019	CHFSGD	11:30:00 AM	1.3747	1.375			N/A
6/5/2019	CHFSGD	1:30:00 PM	1.3755	1.3759			N/A
6/5/2019	CHFSGD	3:30:00 PM	1.3816	1.3818			N/A
6/5/2019	CHFSGD.fx	9:30:00 AM	1.37683	1.37677			N/A
6/5/2019	CHFSGD.fx	11:30:00 AM	1.37493	1.37477			N/A
6/5/2019	CHFSGD.fx	1:30:00 PM	1.37573	1.37574			N/A
6/5/2019	CHFSGD.fx	3:30:00 PM	1.38171	1.38156			N/A
6/5/2019	CHFZAR	9:30:00 AM	14.8178	14.8178			N/A
6/5/2019	CHFZAR	11:30:00 AM	14.8568	14.8691			N/A
6/5/2019	CHFZAR	1:30:00 PM	14.8363	14.8421			N/A
6/5/2019	CHFZAR	3:30:00 PM	14.8856	14.8967			N/A
6/5/2019	CZKJPY	9:30:00 AM	4.737	4.741			N/A
6/5/2019	CZKJPY	11:30:00 AM	4.757	4.759			N/A
6/5/2019	CZKJPY	1:30:00 PM	4.761	4.764			N/A
6/5/2019	CZKJPY	3:30:00 PM					N/A
6/5/2019	DAX30.i	9:30:00 AM	11967.23	11966.48			N/A
6/5/2019	DAX30.i	11:30:00 AM	12018.23	12009.48			N/A
6/5/2019	DAX30.i	1:30:00 PM	12029.73	12024.48			N/A
6/5/2019	DAX30.i	3:30:00 PM	11968.23	11966.48			N/A
6/5/2019	DJ30.i	9:30:00 AM					N/A
6/5/2019	DJ30.i	11:30:00 AM					N/A
6/5/2019	DJ30.i	1:30:00 PM					N/A
6/5/2019	DJ30.i	3:30:00 PM					N/A
6/5/2019	DKKJPY	9:30:00 AM	16.29	16.31			N/A
6/5/2019	DKKJPY	11:30:00 AM					N/A
6/5/2019	DKKJPY	1:30:00 PM	16.36	16.37			N/A
6/5/2019	DKKJPY	3:30:00 PM					N/A

6/5/2019	EURAUD	9:30:00 AM	1.60837	1.60846			N/A
6/5/2019	EURAUD	11:30:00 AM	1.61003	1.61037			N/A
6/5/2019	EURAUD	1:30:00 PM	1.60944	1.60985			N/A
6/5/2019	EURAUD	3:30:00 PM	1.61374	1.61404			N/A
6/5/2019	EURAUD.fx	9:30:00 AM	1.60859	1.60824			N/A
6/5/2019	EURAUD.fx	11:30:00 AM	1.61023	1.61013			N/A
6/5/2019	EURAUD.fx	1:30:00 PM	1.60963	1.60964			N/A
6/5/2019	EURAUD.fx	3:30:00 PM	1.61391	1.61383			N/A
6/5/2019	EURCAD	9:30:00 AM	1.50738	1.50811			N/A
6/5/2019	EURCAD	11:30:00 AM	1.50809	1.50876			N/A
6/5/2019	EURCAD	1:30:00 PM	1.50693	1.50769			N/A
6/5/2019	EURCAD	3:30:00 PM	1.51104	1.51169			N/A
6/5/2019	EURCAD.fx	9:30:00 AM	1.5078	1.50769			N/A
6/5/2019	EURCAD.fx	11:30:00 AM	1.50851	1.50833			N/A
6/5/2019	EURCAD.fx	1:30:00 PM	1.50734	1.50727			N/A
6/5/2019	EURCAD.fx	3:30:00 PM	1.51144	1.51128			N/A
6/5/2019	EURCHF	9:30:00 AM	1.11605	1.11615			N/A
6/5/2019	EURCHF	11:30:00 AM	1.11863	1.11861			N/A
6/5/2019	EURCHF	1:30:00 PM	1.11778	1.11793			N/A
6/5/2019	EURCHF	3:30:00 PM	1.11447	1.11448			N/A
6/5/2019	EURCHF.fx	9:30:00 AM	1.11611	1.11609			N/A
6/5/2019	EURCHF.fx	11:30:00 AM	1.11869	1.11855			N/A
6/5/2019	EURCHF.fx	1:30:00 PM	1.11784	1.11787			N/A
6/5/2019	EURCHF.fx	3:30:00 PM	1.11452	1.11442			N/A
6/5/2019	EURCZK	9:30:00 AM	25.663	25.699			N/A
6/5/2019	EURCZK	11:30:00 AM	25.637	25.675			N/A
6/5/2019	EURCZK	1:30:00 PM	25.63	25.668			N/A
6/5/2019	EURCZK	3:30:00 PM	25.59	25.629			N/A
6/5/2019	EURDKK	9:30:00 AM	7.4673	7.4678			N/A
6/5/2019	EURDKK	11:30:00 AM	7.4665	7.4678			N/A
6/5/2019	EURDKK	1:30:00 PM	7.4667	7.468			N/A
6/5/2019	EURDKK	3:30:00 PM					N/A
6/5/2019	EURGBP	9:30:00 AM	0.88665	0.88641			N/A
6/5/2019	EURGBP	11:30:00 AM	0.88674	0.88632			N/A

6/5/2019	EURGBP	1:30:00 PM	0.88708	0.88716			N/A
6/5/2019	EURGBP	3:30:00 PM	0.88661	0.88664			N/A
6/5/2019	EURGBP.fx	9:30:00 AM	0.88668	0.88634			N/A
6/5/2019	EURGBP.fx	11:30:00 AM	0.88678	0.88628			N/A
6/5/2019	EURGBP.fx	1:30:00 PM	0.88711	0.88711			N/A
6/5/2019	EURGBP.fx	3:30:00 PM	0.88664	0.88659			N/A
6/5/2019	EURHKD	9:30:00 AM	8.8358	8.8401			N/A
6/5/2019	EURHKD	11:30:00 AM	8.8397	8.8444			N/A
6/5/2019	EURHKD	1:30:00 PM	8.8388	8.8431			N/A
6/5/2019	EURHKD	3:30:00 PM	8.8549	8.8592			N/A
6/5/2019	EURHKD.fx	9:30:00 AM	8.83861	8.83727			N/A
6/5/2019	EURHKD.fx	11:30:00 AM	8.84245	8.84158			N/A
6/5/2019	EURHKD.fx	1:30:00 PM	8.84163	8.84025			N/A
6/5/2019	EURHKD.fx	3:30:00 PM	8.85764	8.85627			N/A
6/5/2019	EURHUF	9:30:00 AM	321.51	322.11			N/A
6/5/2019	EURHUF	11:30:00 AM	321.49	322.1			N/A
6/5/2019	EURHUF	1:30:00 PM	321.16	321.83			N/A
6/5/2019	EURHUF	3:30:00 PM	320.89	321.61			N/A
6/5/2019	EURHUF.fx	9:30:00 AM	321.809	321.963			N/A
6/5/2019	EURHUF.fx	11:30:00 AM	321.791	321.97			N/A
6/5/2019	EURHUF.fx	1:30:00 PM	321.424	321.608			N/A
6/5/2019	EURHUF.fx	3:30:00 PM	321.151	321.348			N/A
6/5/2019	EURJPY	9:30:00 AM	121.678	121.679			N/A
6/5/2019	EURJPY	11:30:00 AM	122.081	122.057			N/A
6/5/2019	EURJPY	1:30:00 PM	122.128	122.126			N/A
6/5/2019	EURJPY	3:30:00 PM	121.87	121.876			N/A
6/5/2019	EURJPY.fx	9:30:00 AM	121.68	121.674			N/A
6/5/2019	EURJPY.fx	11:30:00 AM	122.084	122.051			N/A
6/5/2019	EURJPY.fx	1:30:00 PM	122.13	122.122			N/A
6/5/2019	EURJPY.fx	3:30:00 PM	121.872	121.872			N/A
6/5/2019	EURMXN	9:30:00 AM	22.0926	22.1093			N/A
6/5/2019	EURMXN	11:30:00 AM	22.0613	22.0653			N/A
6/5/2019	EURMXN	1:30:00 PM	22.0365	22.0429			N/A
6/5/2019	EURMXN	3:30:00 PM	22.1727	22.1755			N/A

6/5/2019	EURMXN.fx	9:30:00 AM	22.1007	22.1014			N/A
6/5/2019	EURMXN.fx	11:30:00 AM	22.0697	22.0566			N/A
6/5/2019	EURMXN.fx	1:30:00 PM	22.045	22.0344			N/A
6/5/2019	EURMXN.fx	3:30:00 PM	22.1816	22.1664			N/A
6/5/2019	EURNOK	9:30:00 AM	9.7821	9.7921			N/A
6/5/2019	EURNOK	11:30:00 AM	9.7826	9.7943			N/A
6/5/2019	EURNOK	1:30:00 PM	9.774	9.7848			N/A
6/5/2019	EURNOK	3:30:00 PM	9.7781	9.7899			N/A
6/5/2019	EURNOK.fx	9:30:00 AM	9.78759	9.7868			N/A
6/5/2019	EURNOK.fx	11:30:00 AM	9.78801	9.78879			N/A
6/5/2019	EURNOK.fx	1:30:00 PM	9.77943	9.77918			N/A
6/5/2019	EURNOK.fx	3:30:00 PM	9.78357	9.78434			N/A
6/5/2019	EURNZD	9:30:00 AM	1.69509	1.69574			N/A
6/5/2019	EURNZD	11:30:00 AM	1.69765	1.69834			N/A
6/5/2019	EURNZD	1:30:00 PM	1.69671	1.69741			N/A
6/5/2019	EURNZD	3:30:00 PM	1.69575	1.69651			N/A
6/5/2019	EURNZD.fx	9:30:00 AM	1.69549	1.69532			N/A
6/5/2019	EURNZD.fx	11:30:00 AM	1.69806	1.69791			N/A
6/5/2019	EURNZD.fx	1:30:00 PM	1.69712	1.69698			N/A
6/5/2019	EURNZD.fx	3:30:00 PM	1.69614	1.69608			N/A
6/5/2019	EURPLN	9:30:00 AM	4.2778	4.2811			N/A
6/5/2019	EURPLN	11:30:00 AM	4.2757	4.2789			N/A
6/5/2019	EURPLN	1:30:00 PM	4.2784	4.2812			N/A
6/5/2019	EURPLN	3:30:00 PM	4.2753	4.2788			N/A
6/5/2019	EURPLN.fx	9:30:00 AM	4.27717	4.28185			N/A
6/5/2019	EURPLN.fx	11:30:00 AM	4.27509	4.27961			N/A
6/5/2019	EURPLN.fx	1:30:00 PM	4.27777	4.28186			N/A
6/5/2019	EURPLN.fx	3:30:00 PM	4.2748	4.27916			N/A
6/5/2019	EURRUB	9:30:00 AM					N/A
6/5/2019	EURRUB	11:30:00 AM	73.044	73.481			N/A
6/5/2019	EURRUB	1:30:00 PM	72.997	73.438			N/A
6/5/2019	EURRUB	3:30:00 PM	73.141	73.58			N/A
6/5/2019	EURSEK	9:30:00 AM	10.6195	10.6228			N/A
6/5/2019	EURSEK	11:30:00 AM	10.623	10.6247			N/A

6/5/2019	EURSEK	1:30:00 PM	10.6293	10.6332			N/A
6/5/2019	EURSEK	3:30:00 PM	10.6246	10.6294			N/A
6/5/2019	EURSEK.fx	9:30:00 AM	10.62106	10.62115			N/A
6/5/2019	EURSEK.fx	11:30:00 AM	10.62457	10.6228			N/A
6/5/2019	EURSEK.fx	1:30:00 PM	10.63107	10.63144			N/A
6/5/2019	EURSEK.fx	3:30:00 PM	10.62601	10.62798			N/A
6/5/2019	EURSGD	9:30:00 AM	1.5363	1.537			N/A
6/5/2019	EURSGD	11:30:00 AM	1.5377	1.5383			N/A
6/5/2019	EURSGD	1:30:00 PM	1.5375	1.5383			N/A
6/5/2019	EURSGD	3:30:00 PM	1.5394	1.5402			N/A
6/5/2019	EURSGD.fx	9:30:00 AM	1.53669	1.53657			N/A
6/5/2019	EURSGD.fx	11:30:00 AM	1.53804	1.53784			N/A
6/5/2019	EURSGD.fx	1:30:00 PM	1.53786	1.53789			N/A
6/5/2019	EURSGD.fx	3:30:00 PM	1.53979	1.53984			N/A
6/5/2019	EURUSD	9:30:00 AM	1.12667	1.1267			N/A
6/5/2019	EURUSD	11:30:00 AM	1.12732	1.12736			N/A
6/5/2019	EURUSD	1:30:00 PM	1.12739	1.12736	100	100	N/A
6/5/2019	EURUSD	3:30:00 PM	1.12929	1.12929			N/A
6/5/2019	EURUSD.fx	9:30:00 AM	1.12688	1.12679			N/A
6/5/2019	EURUSD.fx	11:30:00 AM	1.12752	1.12745			N/A
6/5/2019	EURUSD.fx	1:30:00 PM	1.12759	1.12745			N/A
6/5/2019	EURUSD.fx	3:30:00 PM	1.1295	1.12939			N/A
6/5/2019	EURZAR	9:30:00 AM	16.5431	16.5442			N/A
6/5/2019	EURZAR	11:30:00 AM	16.6251	16.6435			N/A
6/5/2019	EURZAR	1:30:00 PM	16.5861	16.5969			N/A
6/5/2019	EURZAR	3:30:00 PM	16.5989	16.6135			N/A
6/5/2019	EURZAR.fx	9:30:00 AM	16.54327	16.54553			N/A
6/5/2019	EURZAR.fx	11:30:00 AM	16.62426	16.64368			N/A
6/5/2019	EURZAR.fx	1:30:00 PM	16.58592	16.59759			N/A
6/5/2019	EURZAR.fx	3:30:00 PM	16.5982	16.61448			N/A
6/5/2019	GBPAUD	9:30:00 AM	1.81483	1.81486			N/A
6/5/2019	GBPAUD	11:30:00 AM	1.81713	1.81693			N/A
6/5/2019	GBPAUD	1:30:00 PM	1.81476	1.81554			N/A
6/5/2019	GBPAUD	3:30:00 PM	1.82056	1.82138			N/A

6/5/2019	GBPAUD.fx	9:30:00 AM	1.81522	1.81446			N/A
6/5/2019	GBPAUD.fx	11:30:00 AM	1.81752	1.81661			N/A
6/5/2019	GBPAUD.fx	1:30:00 PM	1.81516	1.81513			N/A
6/5/2019	GBPAUD.fx	3:30:00 PM	1.82094	1.82101			N/A
6/5/2019	GBPCAD	9:30:00 AM	1.70078	1.70079			N/A
6/5/2019	GBPCAD	11:30:00 AM	1.70175	1.70148			N/A
6/5/2019	GBPCAD	1:30:00 PM	1.69878	1.69948			N/A
6/5/2019	GBPCAD	3:30:00 PM	1.70433	1.70512			N/A
6/5/2019	GBPCAD.fx	9:30:00 AM	1.70117	1.70041			N/A
6/5/2019	GBPCAD.fx	11:30:00 AM	1.70215	1.70115			N/A
6/5/2019	GBPCAD.fx	1:30:00 PM	1.69917	1.69908			N/A
6/5/2019	GBPCAD.fx	3:30:00 PM	1.70471	1.70476			N/A
6/5/2019	GBPCHF	9:30:00 AM	1.25903	1.25888			N/A
6/5/2019	GBPCHF	11:30:00 AM	1.26206	1.26167			N/A
6/5/2019	GBPCHF	1:30:00 PM	1.25991	1.26034			N/A
6/5/2019	GBPCHF	3:30:00 PM	1.25696	1.25719			N/A
6/5/2019	GBPCHF.fx	9:30:00 AM	1.25921	1.25865			N/A
6/5/2019	GBPCHF.fx	11:30:00 AM	1.26225	1.26148			N/A
6/5/2019	GBPCHF.fx	1:30:00 PM	1.26011	1.26014			N/A
6/5/2019	GBPCHF.fx	3:30:00 PM	1.25714	1.257			N/A
6/5/2019	GBPCZK	9:30:00 AM	28.962	28.974			N/A
6/5/2019	GBPCZK	11:30:00 AM	28.937	28.943			N/A
6/5/2019	GBPCZK	1:30:00 PM	28.901	28.922			N/A
6/5/2019	GBPCZK	3:30:00 PM	28.876	28.896			N/A
6/5/2019	GBPDKK	9:30:00 AM	8.421	8.429			N/A
6/5/2019	GBPDKK	11:30:00 AM	8.42	8.428			N/A
6/5/2019	GBPDKK	1:30:00 PM	8.414	8.424			N/A
6/5/2019	GBPDKK	3:30:00 PM	8.418	8.43			N/A
6/5/2019	GBPDKK.fx	9:30:00 AM	8.4194	8.4293			N/A
6/5/2019	GBPDKK.fx	11:30:00 AM	8.4198	8.4287			N/A
6/5/2019	GBPDKK.fx	1:30:00 PM	8.4121	8.4249			N/A
6/5/2019	GBPDKK.fx	3:30:00 PM	8.4172	8.4299			N/A
6/5/2019	GBPHKD	9:30:00 AM	9.9654	9.9653			N/A
6/5/2019	GBPHKD	11:30:00 AM	9.9694	9.9676			N/A

6/5/2019	GBPHKD	1:30:00 PM	9.9592	9.9637			N/A
6/5/2019	GBPHKD	3:30:00 PM	9.9822	9.987			N/A
6/5/2019	GBPHUF	9:30:00 AM	362.74	363.07			N/A
6/5/2019	GBPHUF	11:30:00 AM	362.61	362.86			N/A
6/5/2019	GBPHUF	1:30:00 PM	362.05	362.51			N/A
6/5/2019	GBPHUF	3:30:00 PM	361.95	362.4			N/A
6/5/2019	GBPJPY	9:30:00 AM	137.265	137.251			N/A
6/5/2019	GBPJPY	11:30:00 AM	137.732	137.655			N/A
6/5/2019	GBPJPY	1:30:00 PM	137.654	137.683			N/A
6/5/2019	GBPJPY	3:30:00 PM	137.441	137.481			N/A
6/5/2019	GBPJPY.fx	9:30:00 AM	137.291	137.232			N/A
6/5/2019	GBPJPY.fx	11:30:00 AM	137.751	137.641			N/A
6/5/2019	GBPJPY.fx	1:30:00 PM	137.674	137.664			N/A
6/5/2019	GBPJPY.fx	3:30:00 PM	137.459	137.463			N/A
6/5/2019	GBPMXN	9:30:00 AM	24.9182	24.9248			N/A
6/5/2019	GBPMXN	11:30:00 AM	24.8733	24.8725			N/A
6/5/2019	GBPMXN	1:30:00 PM	24.8342	24.8377			N/A
6/5/2019	GBPMXN	3:30:00 PM	24.9903	24.9972			N/A
6/5/2019	GBPNOK	9:30:00 AM	11.0355	11.0439			N/A
6/5/2019	GBPNOK	11:30:00 AM	11.0383	11.0441			N/A
6/5/2019	GBPNOK	1:30:00 PM	11.0184	11.0291			N/A
6/5/2019	GBPNOK	3:30:00 PM	11.0295	11.0409			N/A
6/5/2019	GBPNOK.fx	9:30:00 AM	11.03993	11.03913			N/A
6/5/2019	GBPNOK.fx	11:30:00 AM	11.04308	11.03943			N/A
6/5/2019	GBPNOK.fx	1:30:00 PM	11.02328	11.02399			N/A
6/5/2019	GBPNOK.fx	3:30:00 PM	11.03436	11.03615			N/A
6/5/2019	GBPNZD	9:30:00 AM	1.91265	1.91236			N/A
6/5/2019	GBPNZD	11:30:00 AM	1.91557	1.91519			N/A
6/5/2019	GBPNZD	1:30:00 PM	1.91267	1.91328			N/A
6/5/2019	GBPNZD	3:30:00 PM	1.91262	1.91326			N/A
6/5/2019	GBPNZD.fx	9:30:00 AM	1.91301	1.91199			N/A
6/5/2019	GBPNZD.fx	11:30:00 AM	1.91592	1.91485			N/A
6/5/2019	GBPNZD.fx	1:30:00 PM	1.91305	1.91291			N/A
6/5/2019	GBPNZD.fx	3:30:00 PM	1.91295	1.91292			N/A

6/5/2019	GBPPLN	9:30:00 AM	4.8269	4.8272			N/A
6/5/2019	GBPPLN	11:30:00 AM	4.8254	4.8244			N/A
6/5/2019	GBPPLN	1:30:00 PM	4.8238	4.8252			N/A
6/5/2019	GBPPLN	3:30:00 PM	4.8232	4.825			N/A
6/5/2019	GBPPLN.fx	9:30:00 AM	4.82452	4.82943			N/A
6/5/2019	GBPPLN.fx	11:30:00 AM	4.82331	4.82679			N/A
6/5/2019	GBPPLN.fx	1:30:00 PM	4.8216	4.82733			N/A
6/5/2019	GBPPLN.fx	3:30:00 PM	4.82116	4.8271			N/A
6/5/2019	GBPSEK	9:30:00 AM	11.9781	11.9829			N/A
6/5/2019	GBPSEK	11:30:00 AM	11.9826	11.9816			N/A
6/5/2019	GBPSEK	1:30:00 PM	11.9788	11.9874			N/A
6/5/2019	GBPSEK	3:30:00 PM	11.9807	11.9894			N/A
6/5/2019	GBPSEK.fx	9:30:00 AM	11.97461	11.98666			N/A
6/5/2019	GBPSEK.fx	11:30:00 AM	11.97902	11.98674			N/A
6/5/2019	GBPSEK.fx	1:30:00 PM	11.97522	11.99098			N/A
6/5/2019	GBPSEK.fx	3:30:00 PM	11.9768	11.99332			N/A
6/5/2019	GBPSGD	9:30:00 AM	1.7334	1.7333			N/A
6/5/2019	GBPSGD	11:30:00 AM	1.7352	1.7345			N/A
6/5/2019	GBPSGD	1:30:00 PM	1.7332	1.7339			N/A
6/5/2019	GBPSGD	3:30:00 PM	1.7365	1.7372			N/A
6/5/2019	GBPSGD.fx	9:30:00 AM	1.73162	1.73513			N/A
6/5/2019	GBPSGD.fx	11:30:00 AM	1.73333	1.73645			N/A
6/5/2019	GBPSGD.fx	1:30:00 PM	1.73134	1.73572			N/A
6/5/2019	GBPSGD.fx	3:30:00 PM	1.73456	1.73888			N/A
6/5/2019	GBPUSD	9:30:00 AM	1.27139	1.27081			N/A
6/5/2019	GBPUSD	11:30:00 AM	1.27222	1.27143			N/A
6/5/2019	GBPUSD	1:30:00 PM	1.27101	1.27095			N/A
6/5/2019	GBPUSD	3:30:00 PM	1.27391	1.27392	200	200	N/A
6/5/2019	GBPUSD.fx	9:30:00 AM	1.27145	1.27076			N/A
6/5/2019	GBPUSD.fx	11:30:00 AM	1.27227	1.27138			N/A
6/5/2019	GBPUSD.fx	1:30:00 PM	1.27107	1.27089			N/A
6/5/2019	GBPUSD.fx	3:30:00 PM	1.27397	1.27386			N/A
6/5/2019	GBPZAR	9:30:00 AM	18.6543	18.6653			N/A
6/5/2019	GBPZAR	11:30:00 AM	18.753	18.7732			N/A

6/5/2019	GBPZAR	1:30:00 PM	18.6932	18.7125			N/A
6/5/2019	GBPZAR	3:30:00 PM	18.718	18.7418			N/A
6/5/2019	GBPZAR.fx	9:30:00 AM	18.6616	18.6588			N/A
6/5/2019	GBPZAR.fx	11:30:00 AM	18.7605	18.7675			N/A
6/5/2019	GBPZAR.fx	1:30:00 PM	18.6995	18.7052			N/A
6/5/2019	GBPZAR.fx	3:30:00 PM	18.7258	18.7355			N/A
6/5/2019	GOLD	9:30:00 AM	1331.56	1331.56			N/A
6/5/2019	GOLD	11:30:00 AM	1333.86	1334.04			N/A
6/5/2019	GOLD	1:30:00 PM	1337.17	1337.28			N/A
6/5/2019	GOLD	3:30:00 PM	1342.15	1342.39			N/A
6/5/2019	HKDJPY	9:30:00 AM	13.77	13.78			N/A
6/5/2019	HKDJPY	11:30:00 AM	13.81	13.81			N/A
6/5/2019	HKDJPY	1:30:00 PM	13.82	13.82			N/A
6/5/2019	HKDJPY	3:30:00 PM	13.76	13.77			N/A
6/5/2019	HKDJPY.fx	9:30:00 AM	13.764	13.771			N/A
6/5/2019	HKDJPY.fx	11:30:00 AM	13.802	13.808			N/A
6/5/2019	HKDJPY.fx	1:30:00 PM	13.811	13.817			N/A
6/5/2019	HKDJPY.fx	3:30:00 PM	13.756	13.762			N/A
6/5/2019	HUFJPY	9:30:00 AM	0.3785	0.3788			N/A
6/5/2019	HUFJPY	11:30:00 AM	0.3794	0.3796			N/A
6/5/2019	HUFJPY	1:30:00 PM	0.3801	0.3804			N/A
6/5/2019	HUFJPY	3:30:00 PM	0.3795	0.3799			N/A
6/5/2019	JP225.i	9:30:00 AM	20700.3	20717.8			N/A
6/5/2019	JP225.i	11:30:00 AM	20772.8	20782.8			N/A
6/5/2019	JP225.i	1:30:00 PM	20842.8	20852.8			N/A
6/5/2019	JP225.i	3:30:00 PM	20723.63	20742.8			N/A
6/5/2019	MXNJPY	9:30:00 AM	5.51	5.51			N/A
6/5/2019	MXNJPY	11:30:00 AM	5.53	5.54			N/A
6/5/2019	MXNJPY	1:30:00 PM	5.54	5.56			N/A
6/5/2019	MXNJPY	3:30:00 PM	5.5	5.5			N/A
6/5/2019	NASDAQ.i	9:30:00 AM					N/A
6/5/2019	NASDAQ.i	11:30:00 AM					N/A
6/5/2019	NASDAQ.i	1:30:00 PM					N/A
6/5/2019	NASDAQ.i	3:30:00 PM					N/A

6/5/2019	NOKJPY	9:30:00 AM	12.42	12.45			N/A
6/5/2019	NOKJPY	11:30:00 AM	12.46	12.49			N/A
6/5/2019	NOKJPY	1:30:00 PM	12.48	12.51			N/A
6/5/2019	NOKJPY	3:30:00 PM					N/A
6/5/2019	NOKJPY.fx	9:30:00 AM	12.43	12.435			N/A
6/5/2019	NOKJPY.fx	11:30:00 AM	12.469	12.473			N/A
6/5/2019	NOKJPY.fx	1:30:00 PM	12.485	12.491			N/A
6/5/2019	NOKJPY.fx	3:30:00 PM	12.453	12.46			N/A
6/5/2019	NZDCAD	9:30:00 AM	0.88902	0.88959			N/A
6/5/2019	NZDCAD	11:30:00 AM	0.88801	0.88874			N/A
6/5/2019	NZDCAD	1:30:00 PM	0.88789	0.88846			N/A
6/5/2019	NZDCAD	3:30:00 PM	0.89083	0.89144			N/A
6/5/2019	NZDCAD.fx	9:30:00 AM	0.88936	0.88924			N/A
6/5/2019	NZDCAD.fx	11:30:00 AM	0.88834	0.8884			N/A
6/5/2019	NZDCAD.fx	1:30:00 PM	0.88823	0.88812			N/A
6/5/2019	NZDCAD.fx	3:30:00 PM	0.89114	0.89111			N/A
6/5/2019	NZDCHF	9:30:00 AM	0.65795	0.6586			N/A
6/5/2019	NZDCHF	11:30:00 AM	0.65851	0.65912			N/A
6/5/2019	NZDCHF	1:30:00 PM	0.65838	0.65903			N/A
6/5/2019	NZDCHF	3:30:00 PM	0.65675	0.65743			N/A
6/5/2019	NZDCHF.fx	9:30:00 AM	0.65828	0.65825			N/A
6/5/2019	NZDCHF.fx	11:30:00 AM	0.65885	0.65877			N/A
6/5/2019	NZDCHF.fx	1:30:00 PM	0.65872	0.65867			N/A
6/5/2019	NZDCHF.fx	3:30:00 PM	0.65709	0.65708			N/A
6/5/2019	NZDCZK	9:30:00 AM	15.141	15.152			N/A
6/5/2019	NZDCZK	11:30:00 AM	15.103	15.114			N/A
6/5/2019	NZDCZK	1:30:00 PM	15.107	15.118			N/A
6/5/2019	NZDCZK	3:30:00 PM	15.093	15.105			N/A
6/5/2019	NZDDKK	9:30:00 AM	4.403	4.406			N/A
6/5/2019	NZDDKK	11:30:00 AM	4.394	4.398			N/A
6/5/2019	NZDDKK	1:30:00 PM	4.399	4.402			N/A
6/5/2019	NZDDKK	3:30:00 PM					N/A
6/5/2019	NZDHKD	9:30:00 AM	5.2088	5.2113			N/A
6/5/2019	NZDHKD	11:30:00 AM	5.2025	5.2054			N/A

6/5/2019	NZDHKD	1:30:00 PM	5.2055	5.208			N/A
6/5/2019	NZDHKD	3:30:00 PM	5.2172	5.2199			N/A
6/5/2019	NZDHUF	9:30:00 AM	189.6	189.88			N/A
6/5/2019	NZDHUF	11:30:00 AM	189.23	189.52			N/A
6/5/2019	NZDHUF	1:30:00 PM	189.22	189.49			N/A
6/5/2019	NZDHUF	3:30:00 PM	189.17	189.44			N/A
6/5/2019	NZDJPY	9:30:00 AM	71.735	71.8			N/A
6/5/2019	NZDJPY	11:30:00 AM	71.867	71.918			N/A
6/5/2019	NZDJPY	1:30:00 PM	71.931	72.002			N/A
6/5/2019	NZDJPY	3:30:00 PM	71.821	71.892			N/A
6/5/2019	NZDJPY.fx	9:30:00 AM	71.767	71.768			N/A
6/5/2019	NZDJPY.fx	11:30:00 AM	71.898	71.885			N/A
6/5/2019	NZDJPY.fx	1:30:00 PM	71.964	71.968			N/A
6/5/2019	NZDJPY.fx	3:30:00 PM	71.852	71.86			N/A
6/5/2019	NZDMXN	9:30:00 AM	13.0274	13.0326			N/A
6/5/2019	NZDMXN	11:30:00 AM	12.9884	12.9865			N/A
6/5/2019	NZDMXN	1:30:00 PM	12.9818	12.9809			N/A
6/5/2019	NZDMXN	3:30:00 PM	13.0624	13.0644			N/A
6/5/2019	NZDNOK	9:30:00 AM	5.7681	5.7706			N/A
6/5/2019	NZDNOK	11:30:00 AM	5.7586	5.7622			N/A
6/5/2019	NZDNOK	1:30:00 PM	5.7586	5.7617			N/A
6/5/2019	NZDNOK	3:30:00 PM	5.7633	5.7671			N/A
6/5/2019	NZDPLN	9:30:00 AM	2.5224	2.5238			N/A
6/5/2019	NZDPLN	11:30:00 AM	2.5174	2.5188			N/A
6/5/2019	NZDPLN	1:30:00 PM	2.5206	2.5216			N/A
6/5/2019	NZDPLN	3:30:00 PM	2.5202	2.5216			N/A
6/5/2019	NZDSEK	9:30:00 AM	6.2576	6.2618			N/A
6/5/2019	NZDSEK	11:30:00 AM	6.2499	6.2553			N/A
6/5/2019	NZDSEK	1:30:00 PM	6.2576	6.2633			N/A
6/5/2019	NZDSEK	3:30:00 PM	6.2595	6.2659			N/A
6/5/2019	NZDSGD	9:30:00 AM	0.906	0.9066			N/A
6/5/2019	NZDSGD	11:30:00 AM	0.9056	0.906			N/A
6/5/2019	NZDSGD	1:30:00 PM	0.9059	0.9064			N/A
6/5/2019	NZDSGD	3:30:00 PM	0.9076	0.9082			N/A

6/5/2019	NZDSGD.fx	9:30:00 AM	0.90602	0.90655			N/A
6/5/2019	NZDSGD.fx	11:30:00 AM	0.90558	0.90591			N/A
6/5/2019	NZDSGD.fx	1:30:00 PM	0.90591	0.90643			N/A
6/5/2019	NZDSGD.fx	3:30:00 PM	0.90758	0.90815			N/A
6/5/2019	NZDUSD	9:30:00 AM	0.66451	0.66459			N/A
6/5/2019	NZDUSD	11:30:00 AM	0.66394	0.66404			N/A
6/5/2019	NZDUSD	1:30:00 PM	0.66432	0.66433			N/A
6/5/2019	NZDUSD	3:30:00 PM	0.66583	0.66593			N/A
6/5/2019	NZDUSD.fx	9:30:00 AM	0.66458	0.66461			N/A
6/5/2019	NZDUSD.fx	11:30:00 AM	0.66401	0.66405			N/A
6/5/2019	NZDUSD.fx	1:30:00 PM	0.6644	0.66433			N/A
6/5/2019	NZDUSD.fx	3:30:00 PM	0.6659	0.66595			N/A
6/5/2019	NZDZAR	9:30:00 AM	9.7474	9.7548			N/A
6/5/2019	NZDZAR	11:30:00 AM	9.78	9.7967			N/A
6/5/2019	NZDZAR	1:30:00 PM	9.7659	9.7776			N/A
6/5/2019	NZDZAR	3:30:00 PM	9.7764	9.793			N/A
6/5/2019	SEKJPY	9:30:00 AM	11.46	11.47			N/A
6/5/2019	SEKJPY	11:30:00 AM	11.49	11.5			N/A
6/5/2019	SEKJPY	1:30:00 PM	11.49	11.5			N/A
6/5/2019	SEKJPY	3:30:00 PM					N/A
6/5/2019	SEKJPY.fx	9:30:00 AM	11.448	11.465			N/A
6/5/2019	SEKJPY.fx	11:30:00 AM	11.481	11.498			N/A
6/5/2019	SEKJPY.fx	1:30:00 PM	11.479	11.496			N/A
6/5/2019	SEKJPY.fx	3:30:00 PM	11.458	11.478			N/A
6/5/2019	SGDJPY	9:30:00 AM	79.16	79.18			N/A
6/5/2019	SGDJPY	11:30:00 AM	79.33	79.36			N/A
6/5/2019	SGDJPY	1:30:00 PM	79.38	79.41			N/A
6/5/2019	SGDJPY	3:30:00 PM	79.12	79.14			N/A
6/5/2019	SILVER	9:30:00 AM	14.65	15.02			N/A
6/5/2019	SILVER	11:30:00 AM	14.66	15.04			N/A
6/5/2019	SILVER	1:30:00 PM	14.66	15.03			N/A
6/5/2019	SILVER	3:30:00 PM	14.75	15.13			N/A
6/5/2019	SPX500.i	9:30:00 AM	2807.03	2807.58			N/A
6/5/2019	SPX500.i	11:30:00 AM	2814.85	2815.08			N/A

6/5/2019	SPX500.i	1:30:00 PM	2822.68	2822.83			N/A
6/5/2019	SPX500.i	3:30:00 PM	2812.03	2813.08			N/A
6/5/2019	UK100.i	9:30:00 AM	7221.31	7222.31			N/A
6/5/2019	UK100.i	11:30:00 AM	7237.56	7236.56			N/A
6/5/2019	UK100.i	1:30:00 PM	7254.31	7254.31			N/A
6/5/2019	UK100.i	3:30:00 PM	7228.31	7229.31			N/A
6/5/2019	USDCAD	9:30:00 AM	1.33812	1.33812			N/A
6/5/2019	USDCAD	11:30:00 AM	1.33789	1.33781			N/A
6/5/2019	USDCAD	1:30:00 PM	1.33687	1.33689			N/A
6/5/2019	USDCAD	3:30:00 PM	1.33822	1.33822			N/A
6/5/2019	USDCAD.fx	9:30:00 AM	1.33816	1.33807			N/A
6/5/2019	USDCAD.fx	11:30:00 AM	1.33792	1.33777			N/A
6/5/2019	USDCAD.fx	1:30:00 PM	1.33691	1.33687			N/A
6/5/2019	USDCAD.fx	3:30:00 PM	1.33825	1.33819			N/A
6/5/2019	USDCHF	9:30:00 AM	0.99043	0.99049			N/A
6/5/2019	USDCHF	11:30:00 AM	0.99208	0.99215			N/A
6/5/2019	USDCHF	1:30:00 PM	0.99144	0.99145			N/A
6/5/2019	USDCHF	3:30:00 PM	0.98684	0.98673			N/A
6/5/2019	USDCHF.fx	9:30:00 AM	0.99047	0.99042			N/A
6/5/2019	USDCHF.fx	11:30:00 AM	0.99213	0.99209			N/A
6/5/2019	USDCHF.fx	1:30:00 PM	0.99148	0.99139			N/A
6/5/2019	USDCHF.fx	3:30:00 PM	0.98688	0.98668			N/A
6/5/2019	USDCZK	9:30:00 AM	22.801	22.822			N/A
6/5/2019	USDCZK	11:30:00 AM	22.765	22.786			N/A
6/5/2019	USDCZK	1:30:00 PM	22.757	22.778			N/A
6/5/2019	USDCZK	3:30:00 PM	22.684	22.706			N/A
6/5/2019	USDCZK.fx	9:30:00 AM	22.808	22.8135			N/A
6/5/2019	USDCZK.fx	11:30:00 AM	22.7736	22.777			N/A
6/5/2019	USDCZK.fx	1:30:00 PM	22.765	22.7681			N/A
6/5/2019	USDCZK.fx	3:30:00 PM	22.6924	22.698			N/A
6/5/2019	USDDKK	9:30:00 AM	6.6267	6.6302			N/A
6/5/2019	USDDKK	11:30:00 AM	6.6225	6.6263			N/A
6/5/2019	USDDKK	1:30:00 PM	6.6227	6.6259			N/A
6/5/2019	USDDKK	3:30:00 PM	6.6113	6.6149			N/A

6/5/2019	USDDKK.fx	9:30:00 AM	6.6272	6.62823			N/A
6/5/2019	USDDKK.fx	11:30:00 AM	6.62302	6.62417			N/A
6/5/2019	USDDKK.fx	1:30:00 PM	6.62309	6.62383			N/A
6/5/2019	USDDKK.fx	3:30:00 PM	6.61181	6.61289			N/A
6/5/2019	USDHKD	9:30:00 AM	7.8411	7.8415			N/A
6/5/2019	USDHKD	11:30:00 AM	7.8402	7.8404			N/A
6/5/2019	USDHKD	1:30:00 PM	7.8389	7.8393			N/A
6/5/2019	USDHKD	3:30:00 PM					N/A
6/5/2019	USDHKD.fx	9:30:00 AM	7.84112	7.84159			N/A
6/5/2019	USDHKD.fx	11:30:00 AM	7.84009	7.84056			N/A
6/5/2019	USDHKD.fx	1:30:00 PM					N/A
6/5/2019	USDHKD.fx	3:30:00 PM	7.83972	7.84033			N/A
6/5/2019	USDHUF	9:30:00 AM	285.43	285.87			N/A
6/5/2019	USDHUF	11:30:00 AM	285.25	285.72			N/A
6/5/2019	USDHUF	1:30:00 PM	284.94	285.37			N/A
6/5/2019	USDHUF	3:30:00 PM	284.2	284.66			N/A
6/5/2019	USDHUF.fx	9:30:00 AM	285.642	285.669			N/A
6/5/2019	USDHUF.fx	11:30:00 AM	285.455	285.515			N/A
6/5/2019	USDHUF.fx	1:30:00 PM	285.13	285.175			N/A
6/5/2019	USDHUF.fx	3:30:00 PM	284.394	284.47			N/A
6/5/2019	USDINR	9:30:00 AM					N/A
6/5/2019	USDINR	11:30:00 AM					N/A
6/5/2019	USDINR	1:30:00 PM					N/A
6/5/2019	USDINR	3:30:00 PM					N/A
6/5/2019	USDJPY	9:30:00 AM	107.984	107.99			N/A
6/5/2019	USDJPY	11:30:00 AM	108.27	108.259			N/A
6/5/2019	USDJPY	1:30:00 PM	108.319	108.318			N/A
6/5/2019	USDJPY	3:30:00 PM	107.901	107.899			N/A
6/5/2019	USDJPY.fx	9:30:00 AM	107.989	107.983			N/A
6/5/2019	USDJPY.fx	11:30:00 AM	108.276	108.251			N/A
6/5/2019	USDJPY.fx	1:30:00 PM	108.325	108.311			N/A
6/5/2019	USDJPY.fx	3:30:00 PM	107.907	107.892			N/A
6/5/2019	USDMXN	9:30:00 AM	19.611	19.617			N/A
6/5/2019	USDMXN	11:30:00 AM	19.569	19.565			N/A

6/5/2019	USDMXN	1:30:00 PM	19.549	19.543			N/A
6/5/2019	USDMXN	3:30:00 PM	19.637	19.628			N/A
6/5/2019	USDMXN.fx	9:30:00 AM	19.6148	19.613			N/A
6/5/2019	USDMXN.fx	11:30:00 AM	19.5757	19.5619			N/A
6/5/2019	USDMXN.fx	1:30:00 PM	19.553	19.5393			N/A
6/5/2019	USDMXN.fx	3:30:00 PM	19.6412	19.6238			N/A
6/5/2019	USDNOK	9:30:00 AM	8.6826	8.6888			N/A
6/5/2019	USDNOK	11:30:00 AM	8.6779	8.6857			N/A
6/5/2019	USDNOK	1:30:00 PM	8.6698	8.6767			N/A
6/5/2019	USDNOK	3:30:00 PM	8.659	8.6668			N/A
6/5/2019	USDNOK.fx	9:30:00 AM	8.68672	8.68464			N/A
6/5/2019	USDNOK.fx	11:30:00 AM	8.682	8.68136			N/A
6/5/2019	USDNOK.fx	1:30:00 PM	8.67425	8.67214			N/A
6/5/2019	USDNOK.fx	3:30:00 PM	8.6629	8.6623			N/A
6/5/2019	USDPLN	9:30:00 AM	3.7972	3.7985			N/A
6/5/2019	USDPLN	11:30:00 AM	3.7928	3.7944			N/A
6/5/2019	USDPLN	1:30:00 PM	3.7952	3.7961			N/A
6/5/2019	USDPLN	3:30:00 PM	3.7862	3.7875			N/A
6/5/2019	USDPLN.fx	9:30:00 AM	3.79631	3.79929			N/A
6/5/2019	USDPLN.fx	11:30:00 AM	3.79198	3.79519			N/A
6/5/2019	USDPLN.fx	1:30:00 PM	3.79438	3.79692			N/A
6/5/2019	USDPLN.fx	3:30:00 PM	3.78543	3.78823			N/A
6/5/2019	USDRUB	9:30:00 AM					N/A
6/5/2019	USDRUB	11:30:00 AM	64.895	65.294			N/A
6/5/2019	USDRUB	1:30:00 PM	64.859	65.245			N/A
6/5/2019	USDRUB	3:30:00 PM	64.873	65.258			N/A
6/5/2019	USDSEK	9:30:00 AM	9.4218	9.424			N/A
6/5/2019	USDSEK	11:30:00 AM	9.4186	9.4208			N/A
6/5/2019	USDSEK	1:30:00 PM	9.4246	9.4278			N/A
6/5/2019	USDSEK	3:30:00 PM	9.4044	9.4083			N/A
6/5/2019	USDSEK.fx	9:30:00 AM	9.42435	9.42222			N/A
6/5/2019	USDSEK.fx	11:30:00 AM	9.42139	9.41879			N/A
6/5/2019	USDSEK.fx	1:30:00 PM	9.42722	9.42579			N/A
6/5/2019	USDSEK.fx	3:30:00 PM	9.40693	9.4066			N/A

6/5/2019	USDSGD	9:30:00 AM	1.3636	1.3639			N/A
6/5/2019	USDSGD	11:30:00 AM	1.364	1.3642			N/A
6/5/2019	USDSGD	1:30:00 PM	1.3638	1.3641			N/A
6/5/2019	USDSGD	3:30:00 PM	1.3632	1.3634			N/A
6/5/2019	USDSGD.fx	9:30:00 AM	1.36346	1.3639			N/A
6/5/2019	USDSGD.fx	11:30:00 AM	1.36386	1.36416			N/A
6/5/2019	USDSGD.fx	1:30:00 PM	1.36374	1.3641			N/A
6/5/2019	USDSGD.fx	3:30:00 PM	1.3631	1.36347			N/A
6/5/2019	USDZAR	9:30:00 AM	14.681	14.6823			N/A
6/5/2019	USDZAR	11:30:00 AM	14.7462	14.7617			N/A
6/5/2019	USDZAR	1:30:00 PM	14.7112	14.7187			N/A
6/5/2019	USDZAR	3:30:00 PM	14.6957	14.7081			N/A
6/5/2019	USDZAR.fx	9:30:00 AM					N/A
6/5/2019	USDZAR.fx	11:30:00 AM					N/A
6/5/2019	USDZAR.fx	1:30:00 PM					N/A
6/5/2019	USDZAR.fx	3:30:00 PM					N/A
6/5/2019	XAUUSD	9:30:00 AM	1331.56	1331.55			N/A
6/5/2019	XAUUSD	11:30:00 AM	1333.86	1334.03			N/A
6/5/2019	XAUUSD	1:30:00 PM	1337.17	1337.27			N/A
6/5/2019	XAUUSD	3:30:00 PM	1342.16	1342.37			N/A
6/5/2019	ZARJPY	9:30:00 AM	7.34	7.35			N/A
6/5/2019	ZARJPY	11:30:00 AM	7.31	7.34			N/A
6/5/2019	ZARJPY	1:30:00 PM	7.34	7.36			N/A
6/5/2019	ZARJPY	3:30:00 PM	7.32	7.36			N/A
6/5/2019	ZARJPY.fx	9:30:00 AM	7.356	7.352			N/A
6/5/2019	ZARJPY.fx	11:30:00 AM	7.336	7.339			N/A
6/5/2019	ZARJPY.fx	1:30:00 PM	7.36	7.36			N/A
6/5/2019	ZARJPY.fx	3:30:00 PM	7.337	7.341			N/A
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6/6/2019	#Bitcoin	1:30:00 PM	7787.6	7822.6			N/A
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6/6/2019	#CL.f	11:30:00 AM	52.09	52.07			N/A
6/6/2019	#CL.f	1:30:00 PM	51.889	51.87			N/A
6/6/2019	#CL.f	3:30:00 PM	52.273	52.314			N/A
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6/6/2019	#ZNGA	3:30:00 PM					N/A
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6/6/2019	AUDCAD	11:30:00 AM	0.93543	0.93597			N/A
6/6/2019	AUDCAD	1:30:00 PM	0.9354	0.93612			N/A
6/6/2019	AUDCAD	3:30:00 PM	0.93556	0.93611			N/A

6/6/2019	AUDCAD.fx	9:30:00 AM	0.93489	0.93488			N/A
6/6/2019	AUDCAD.fx	11:30:00 AM	0.93576	0.93563			N/A
6/6/2019	AUDCAD.fx	1:30:00 PM	0.93573	0.93578			N/A
6/6/2019	AUDCAD.fx	3:30:00 PM	0.93582	0.9358			N/A
6/6/2019	AUDCHF	9:30:00 AM	0.69212	0.69272			N/A
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6/6/2019	AUDCHF	1:30:00 PM	0.69415	0.69477			N/A
6/6/2019	AUDCHF	3:30:00 PM	0.69229	0.69296			N/A
6/6/2019	AUDCHF.fx	9:30:00 AM	0.69247	0.69237			N/A
6/6/2019	AUDCHF.fx	11:30:00 AM	0.69396	0.69391			N/A
6/6/2019	AUDCHF.fx	1:30:00 PM	0.69449	0.69442			N/A
6/6/2019	AUDCHF.fx	3:30:00 PM	0.69262	0.69263			N/A
6/6/2019	AUDCZK	9:30:00 AM	15.902	15.914			N/A
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6/6/2019	AUDCZK	3:30:00 PM	15.884	15.898			N/A
6/6/2019	AUDDKK	9:30:00 AM	4.6328	4.6367			N/A
6/6/2019	AUDDKK	11:30:00 AM	4.635	4.6394			N/A
6/6/2019	AUDDKK	1:30:00 PM	4.6371	4.6417			N/A
6/6/2019	AUDDKK	3:30:00 PM	4.6279	4.6318			N/A
6/6/2019	AUDHKD	9:30:00 AM	5.4597	5.463			N/A
6/6/2019	AUDHKD	11:30:00 AM	5.4682	5.4721			N/A
6/6/2019	AUDHKD	1:30:00 PM	5.4684	5.4717			N/A
6/6/2019	AUDHKD	3:30:00 PM	5.4723	5.4756			N/A
6/6/2019	AUDHUF	9:30:00 AM	199.42	199.57			N/A
6/6/2019	AUDHUF	11:30:00 AM	199.34	199.58			N/A
6/6/2019	AUDHUF	1:30:00 PM	199.46	199.69			N/A
6/6/2019	AUDHUF	3:30:00 PM	198.85	199.03			N/A
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6/6/2019	AUDJPY	11:30:00 AM	75.485	75.551			N/A
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6/6/2019	AUDJPY	3:30:00 PM	75.475	75.54			N/A
6/6/2019	AUDJPY.fx	9:30:00 AM	75.316	75.286			N/A
6/6/2019	AUDJPY.fx	11:30:00 AM	75.518	75.516			N/A

6/6/2019	AUDJPY.fx	1:30:00 PM	75.503	75.496			N/A
6/6/2019	AUDJPY.fx	3:30:00 PM	75.508	75.505			N/A
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6/6/2019	AUDMXN	1:30:00 PM	13.7469	13.7469			N/A
6/6/2019	AUDMXN	3:30:00 PM	13.7704	13.7726			N/A
6/6/2019	AUDNOK	9:30:00 AM	6.082	6.0854			N/A
6/6/2019	AUDNOK	11:30:00 AM	6.0825	6.0859			N/A
6/6/2019	AUDNOK	1:30:00 PM	6.0832	6.0886			N/A
6/6/2019	AUDNOK	3:30:00 PM	6.0786	6.0828			N/A
6/6/2019	AUDNOK.fx	9:30:00 AM	6.0835	6.0838			N/A
6/6/2019	AUDNOK.fx	11:30:00 AM	6.0841	6.0843			N/A
6/6/2019	AUDNOK.fx	1:30:00 PM	6.0848	6.0869			N/A
6/6/2019	AUDNOK.fx	3:30:00 PM	6.0801	6.0814			N/A
6/6/2019	AUDNZD	9:30:00 AM	1.05123	1.05206			N/A
6/6/2019	AUDNZD	11:30:00 AM	1.05233	1.05322			N/A
6/6/2019	AUDNZD	1:30:00 PM	1.05289	1.0538			N/A
6/6/2019	AUDNZD	3:30:00 PM	1.0523	1.05309			N/A
6/6/2019	AUDNZD.fx	9:30:00 AM	1.05167	1.05161			N/A
6/6/2019	AUDNZD.fx	11:30:00 AM	1.05276	1.05279			N/A
6/6/2019	AUDNZD.fx	1:30:00 PM	1.05335	1.05335			N/A
6/6/2019	AUDNZD.fx	3:30:00 PM	1.05275	1.05264			N/A
6/6/2019	AUDPLN	9:30:00 AM	2.6535	2.6562			N/A
6/6/2019	AUDPLN	11:30:00 AM	2.6543	2.6575			N/A
6/6/2019	AUDPLN	1:30:00 PM	2.6559	2.6589			N/A
6/6/2019	AUDPLN	3:30:00 PM	2.6514	2.6542			N/A
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6/6/2019	AUDSEK	1:30:00 PM	6.5888	6.5921			N/A
6/6/2019	AUDSEK	3:30:00 PM	6.5808	6.5828			N/A
6/6/2019	AUDSEK.fx	9:30:00 AM	6.574	6.5848			N/A
6/6/2019	AUDSEK.fx	11:30:00 AM	6.5747	6.5841			N/A
6/6/2019	AUDSEK.fx	1:30:00 PM	6.5843	6.5966			N/A
6/6/2019	AUDSEK.fx	3:30:00 PM	6.5758	6.5874			N/A

6/6/2019	AUDSGD	9:30:00 AM	0.9517	0.9519			N/A
6/6/2019	AUDSGD	11:30:00 AM	0.9526	0.9526			N/A
6/6/2019	AUDSGD	1:30:00 PM	0.9522	0.9525			N/A
6/6/2019	AUDSGD	3:30:00 PM	0.9524	0.9526			N/A
6/6/2019	AUDSGD.fx	9:30:00 AM	0.95175	0.95178			N/A
6/6/2019	AUDSGD.fx	11:30:00 AM	0.95266	0.95264			N/A
6/6/2019	AUDSGD.fx	1:30:00 PM	0.95242	0.95246			N/A
6/6/2019	AUDSGD.fx	3:30:00 PM	0.95244	0.95252			N/A
6/6/2019	AUDUSD	9:30:00 AM	0.69667	0.69669			N/A
6/6/2019	AUDUSD	11:30:00 AM	0.69783	0.69788			N/A
6/6/2019	AUDUSD	1:30:00 PM	0.69774	0.69785			N/A
6/6/2019	AUDUSD	3:30:00 PM	0.69842	0.69838			N/A
6/6/2019	AUDUSD.fx	9:30:00 AM	0.69672	0.69664			N/A
6/6/2019	AUDUSD.fx	11:30:00 AM	0.69789	0.69782			N/A
6/6/2019	AUDUSD.fx	1:30:00 PM	0.6978	0.69779			N/A
6/6/2019	AUDUSD.fx	3:30:00 PM	0.69846	0.69833			N/A
6/6/2019	AUDZAR	9:30:00 AM	10.4024	10.4128			N/A
6/6/2019	AUDZAR	11:30:00 AM	10.3786	10.3924			N/A
6/6/2019	AUDZAR	1:30:00 PM	10.3866	10.3957			N/A
6/6/2019	AUDZAR	3:30:00 PM	10.3671	10.3761			N/A
6/6/2019	AUS200.i	9:30:00 AM					N/A
6/6/2019	AUS200.i	11:30:00 AM	6400.2	6403.7			N/A
6/6/2019	AUS200.i	1:30:00 PM	6406.5	6409.7			N/A
6/6/2019	AUS200.i	3:30:00 PM	6400.7	6403.5			N/A
6/6/2019	BCHUSD	9:30:00 AM	404.27	406.2			N/A
6/6/2019	BCHUSD	11:30:00 AM	402.75	403.44			N/A
6/6/2019	BCHUSD	1:30:00 PM	400.66	402.12			N/A
6/6/2019	BCHUSD	3:30:00 PM	399.64	401.15			N/A
6/6/2019	CADCHF	9:30:00 AM	0.74032	0.74091			N/A
6/6/2019	CADCHF	11:30:00 AM	0.74131	0.74193			N/A
6/6/2019	CADCHF	1:30:00 PM	0.74183	0.74241			N/A
6/6/2019	CADCHF	3:30:00 PM	0.73986	0.74037			N/A
6/6/2019	CADCHF.fx	9:30:00 AM	0.74065	0.74056			N/A
6/6/2019	CADCHF.fx	11:30:00 AM	0.74166	0.74158			N/A

6/6/2019	CADCHF.fx	1:30:00 PM	0.74217	0.74206			N/A
6/6/2019	CADCHF.fx	3:30:00 PM	0.74018	0.74004			N/A
6/6/2019	CADCZK	9:30:00 AM	17.012	17.024			N/A
6/6/2019	CADCZK	11:30:00 AM	17.006	17.024			N/A
6/6/2019	CADCZK	1:30:00 PM	17.006	17.022			N/A
6/6/2019	CADCZK	3:30:00 PM	16.98	16.99			N/A
6/6/2019	CADDDKK	9:30:00 AM	4.956	4.96			N/A
6/6/2019	CADDDKK	11:30:00 AM					N/A
6/6/2019	CADDDKK	1:30:00 PM					N/A
6/6/2019	CADDDKK	3:30:00 PM	4.945	4.948			N/A
6/6/2019	CADHKD	9:30:00 AM	5.841	5.844			N/A
6/6/2019	CADHKD	11:30:00 AM	5.8442	5.8479			N/A
6/6/2019	CADHKD	1:30:00 PM	5.8446	5.8479			N/A
6/6/2019	CADHKD	3:30:00 PM	5.8487	5.8514			N/A
6/6/2019	CADHUF	9:30:00 AM	213.36	213.46			N/A
6/6/2019	CADHUF	11:30:00 AM	213.09	213.27			N/A
6/6/2019	CADHUF	1:30:00 PM	213.22	213.37			N/A
6/6/2019	CADHUF	3:30:00 PM	212.58	212.66			N/A
6/6/2019	CADJPY	9:30:00 AM	80.533	80.571			N/A
6/6/2019	CADJPY	11:30:00 AM	80.678	80.745			N/A
6/6/2019	CADJPY	1:30:00 PM	80.658	80.717			N/A
6/6/2019	CADJPY	3:30:00 PM	80.66	80.71			N/A
6/6/2019	CADJPY.fx	9:30:00 AM	80.567	80.537			N/A
6/6/2019	CADJPY.fx	11:30:00 AM	80.712	80.71			N/A
6/6/2019	CADJPY.fx	1:30:00 PM	80.691	80.679			N/A
6/6/2019	CADJPY.fx	3:30:00 PM	80.692	80.68			N/A
6/6/2019	CADMXN	9:30:00 AM	14.731	14.7398			N/A
6/6/2019	CADMXN	11:30:00 AM	14.6893	14.6977			N/A
6/6/2019	CADMXN	1:30:00 PM	14.6916	14.6933			N/A
6/6/2019	CADMXN	3:30:00 PM	14.7165	14.7202			N/A
6/6/2019	CADNOK	9:30:00 AM	6.5039	6.5066			N/A
6/6/2019	CADNOK	11:30:00 AM	6.4989	6.5032			N/A
6/6/2019	CADNOK	1:30:00 PM	6.5	6.5045			N/A
6/6/2019	CADNOK	3:30:00 PM	6.4921	6.4958			N/A

6/6/2019	CADPLN	9:30:00 AM	2.8382	2.84			N/A
6/6/2019	CADPLN	11:30:00 AM	2.8369	2.8388			N/A
6/6/2019	CADPLN	1:30:00 PM	2.8387	2.8404			N/A
6/6/2019	CADPLN	3:30:00 PM	2.8322	2.8341			N/A
6/6/2019	CADSEK	9:30:00 AM	7.0351	7.0378			N/A
6/6/2019	CADSEK	11:30:00 AM	7.0292	7.0314			N/A
6/6/2019	CADSEK	1:30:00 PM	7.0402	7.0435			N/A
6/6/2019	CADSEK	3:30:00 PM	7.0304	7.0325			N/A
6/6/2019	CADSGD	9:30:00 AM	1.0174	1.0177			N/A
6/6/2019	CADSGD	11:30:00 AM	1.0175	1.0178			N/A
6/6/2019	CADSGD	1:30:00 PM	1.0171	1.0174			N/A
6/6/2019	CADSGD	3:30:00 PM	1.0169	1.0172			N/A
6/6/2019	CADZAR	9:30:00 AM	11.1279	11.1397			N/A
6/6/2019	CADZAR	11:30:00 AM	11.093	11.1081			N/A
6/6/2019	CADZAR	1:30:00 PM	11.1005	11.1114			N/A
6/6/2019	CADZAR	3:30:00 PM	11.0803	11.0903			N/A
6/6/2019	CHFCZK	9:30:00 AM	22.979	22.985			N/A
6/6/2019	CHFCZK	11:30:00 AM	22.937	22.952			N/A
6/6/2019	CHFCZK	1:30:00 PM	22.922	22.934			N/A
6/6/2019	CHFCZK	3:30:00 PM	22.945	22.957			N/A
6/6/2019	CHFDKK	9:30:00 AM	6.693	6.695			N/A
6/6/2019	CHFDKK	11:30:00 AM	6.681	6.684			N/A
6/6/2019	CHFDKK	1:30:00 PM	6.678	6.681			N/A
6/6/2019	CHFDKK	3:30:00 PM	6.683	6.686			N/A
6/6/2019	CHFDKK.fx	9:30:00 AM	6.6917	6.6959			N/A
6/6/2019	CHFDKK.fx	11:30:00 AM	6.6796	6.6852			N/A
6/6/2019	CHFDKK.fx	1:30:00 PM	6.6778	6.6826			N/A
6/6/2019	CHFDKK.fx	3:30:00 PM	6.6815	6.6871			N/A
6/6/2019	CHFHKD	9:30:00 AM	7.8876	7.8899			N/A
6/6/2019	CHFHKD	11:30:00 AM	7.8832	7.886			N/A
6/6/2019	CHFHKD	1:30:00 PM	7.8771	7.8796			N/A
6/6/2019	CHFHKD	3:30:00 PM	7.9043	7.9068			N/A
6/6/2019	CHFHUF	9:30:00 AM	288.08	288.31			N/A
6/6/2019	CHFHUF	11:30:00 AM	287.31	287.68			N/A

6/6/2019	CHFHUF	1:30:00 PM	287.27	287.6			N/A
6/6/2019	CHFHUF	3:30:00 PM	287.13	287.46			N/A
6/6/2019	CHFJPY	9:30:00 AM	108.751	108.772			N/A
6/6/2019	CHFJPY	11:30:00 AM	108.793	108.858			N/A
6/6/2019	CHFJPY	1:30:00 PM	108.685	108.743			N/A
6/6/2019	CHFJPY	3:30:00 PM	108.989	109.04			N/A
6/6/2019	CHFJPY.fx	9:30:00 AM	108.782	108.739			N/A
6/6/2019	CHFJPY.fx	11:30:00 AM	108.826	108.824			N/A
6/6/2019	CHFJPY.fx	1:30:00 PM	108.718	108.708			N/A
6/6/2019	CHFJPY.fx	3:30:00 PM	109.02	109.007			N/A
6/6/2019	CHFMXN	9:30:00 AM	19.8949	19.9032			N/A
6/6/2019	CHFMXN	11:30:00 AM	19.8091	19.8222			N/A
6/6/2019	CHFMXN	1:30:00 PM	19.8009	19.7986			N/A
6/6/2019	CHFMXN	3:30:00 PM	19.8872	19.8919			N/A
6/6/2019	CHFNOK	9:30:00 AM	8.7843	8.7891			N/A
6/6/2019	CHFNOK	11:30:00 AM	8.7648	8.7705			N/A
6/6/2019	CHFNOK	1:30:00 PM	8.7603	8.7668			N/A
6/6/2019	CHFNOK	3:30:00 PM	8.7763	8.7829			N/A
6/6/2019	CHFNOK.fx	9:30:00 AM	8.7879	8.78583			N/A
6/6/2019	CHFNOK.fx	11:30:00 AM	8.76832	8.76701			N/A
6/6/2019	CHFNOK.fx	1:30:00 PM	8.76377	8.76324			N/A
6/6/2019	CHFNOK.fx	3:30:00 PM	8.77892	8.77942			N/A
6/6/2019	CHFPLN	9:30:00 AM	3.8336	3.8355			N/A
6/6/2019	CHFPLN	11:30:00 AM	3.826	3.8289			N/A
6/6/2019	CHFPLN	1:30:00 PM	3.8252	3.8275			N/A
6/6/2019	CHFPLN	3:30:00 PM	3.829	3.8314			N/A
6/6/2019	CHFPLN.fx	9:30:00 AM	3.83096	3.83815			N/A
6/6/2019	CHFPLN.fx	11:30:00 AM	3.82346	3.83124			N/A
6/6/2019	CHFPLN.fx	1:30:00 PM	3.82278	3.82985			N/A
6/6/2019	CHFPLN.fx	3:30:00 PM	3.82574	3.83393			N/A
6/6/2019	CHFSEK	9:30:00 AM	9.5006	9.503			N/A
6/6/2019	CHFSEK	11:30:00 AM	9.4813	9.4816			N/A
6/6/2019	CHFSEK	1:30:00 PM	9.4882	9.4909			N/A
6/6/2019	CHFSEK	3:30:00 PM	9.5001	9.5035			N/A

6/6/2019	CHFSGD	9:30:00 AM	1.3745	1.3747			N/A
6/6/2019	CHFSGD	11:30:00 AM	1.3727	1.373			N/A
6/6/2019	CHFSGD	1:30:00 PM	1.3713	1.3716			N/A
6/6/2019	CHFSGD	3:30:00 PM	1.3751	1.3754			N/A
6/6/2019	CHFSGD.fx	9:30:00 AM	1.37472	1.37457			N/A
6/6/2019	CHFSGD.fx	11:30:00 AM	1.37289	1.37277			N/A
6/6/2019	CHFSGD.fx	1:30:00 PM	1.37145	1.37137			N/A
6/6/2019	CHFSGD.fx	3:30:00 PM	1.37523	1.37522			N/A
6/6/2019	CHFZAR	9:30:00 AM	15.0314	15.0374			N/A
6/6/2019	CHFZAR	11:30:00 AM	14.9633	14.9758			N/A
6/6/2019	CHFZAR	1:30:00 PM	14.9651	14.9683			N/A
6/6/2019	CHFZAR	3:30:00 PM	14.9747	14.983			N/A
6/6/2019	CZKJPY	9:30:00 AM	4.734	4.735			N/A
6/6/2019	CZKJPY	11:30:00 AM					N/A
6/6/2019	CZKJPY	1:30:00 PM	4.742	4.746			N/A
6/6/2019	CZKJPY	3:30:00 PM	4.75	4.753			N/A
6/6/2019	DAX30.i	9:30:00 AM	11966.39	11964.39			N/A
6/6/2019	DAX30.i	11:30:00 AM	12034.89	12032.39			N/A
6/6/2019	DAX30.i	1:30:00 PM	12061.39	12054.89			N/A
6/6/2019	DAX30.i	3:30:00 PM	12002.39	11995.39			N/A
6/6/2019	DJ30.i	9:30:00 AM					N/A
6/6/2019	DJ30.i	11:30:00 AM					N/A
6/6/2019	DJ30.i	1:30:00 PM					N/A
6/6/2019	DJ30.i	3:30:00 PM					N/A
6/6/2019	DKKJPY	9:30:00 AM	16.25	16.26			N/A
6/6/2019	DKKJPY	11:30:00 AM					N/A
6/6/2019	DKKJPY	1:30:00 PM	16.28	16.29			N/A
6/6/2019	DKKJPY	3:30:00 PM	16.32	16.33			N/A
6/6/2019	EURAUD	9:30:00 AM	1.61083	1.61091			N/A
6/6/2019	EURAUD	11:30:00 AM	1.60983	1.61007			N/A
6/6/2019	EURAUD	1:30:00 PM	1.60911	1.60947			N/A
6/6/2019	EURAUD	3:30:00 PM	1.61232	1.61252			N/A
6/6/2019	EURAUD.fx	9:30:00 AM	1.61104	1.61071			N/A
6/6/2019	EURAUD.fx	11:30:00 AM	1.61004	1.60987			N/A

6/6/2019	EURAUD.fx	1:30:00 PM	1.60932	1.60926			N/A
6/6/2019	EURAUD.fx	3:30:00 PM	1.61252	1.61232			N/A
6/6/2019	EURCAD	9:30:00 AM	1.50616	1.50671			N/A
6/6/2019	EURCAD	11:30:00 AM	1.50657	1.50736			N/A
6/6/2019	EURCAD	1:30:00 PM	1.50597	1.50679			N/A
6/6/2019	EURCAD	3:30:00 PM	1.50917	1.50958			N/A
6/6/2019	EURCAD.fx	9:30:00 AM	1.50658	1.50628			N/A
6/6/2019	EURCAD.fx	11:30:00 AM	1.50698	1.50694			N/A
6/6/2019	EURCAD.fx	1:30:00 PM	1.50639	1.50638			N/A
6/6/2019	EURCAD.fx	3:30:00 PM	1.50958	1.50918			N/A
6/6/2019	EURCHF	9:30:00 AM	1.11585	1.11559			N/A
6/6/2019	EURCHF	11:30:00 AM	1.11764	1.11765			N/A
6/6/2019	EURCHF	1:30:00 PM	1.11807	1.11796			N/A
6/6/2019	EURCHF	3:30:00 PM	1.11723	1.11702			N/A
6/6/2019	EURCHF.fx	9:30:00 AM	1.11591	1.11553			N/A
6/6/2019	EURCHF.fx	11:30:00 AM	1.11769	1.11759			N/A
6/6/2019	EURCHF.fx	1:30:00 PM	1.11812	1.11789			N/A
6/6/2019	EURCHF.fx	3:30:00 PM	1.11728	1.11711			N/A
6/6/2019	EURCZK	9:30:00 AM	25.618	25.653			N/A
6/6/2019	EURCZK	11:30:00 AM					N/A
6/6/2019	EURCZK	1:30:00 PM	25.608	25.647			N/A
6/6/2019	EURCZK	3:30:00 PM	25.614	25.653			N/A
6/6/2019	EURDKK	9:30:00 AM	7.4664	7.4677			N/A
6/6/2019	EURDKK	11:30:00 AM					N/A
6/6/2019	EURDKK	1:30:00 PM	7.4664	7.4674			N/A
6/6/2019	EURDKK	3:30:00 PM	7.4669	7.4682			N/A
6/6/2019	EURGBP	9:30:00 AM	0.88555	0.88549			N/A
6/6/2019	EURGBP	11:30:00 AM	0.88539	0.88551			N/A
6/6/2019	EURGBP	1:30:00 PM	0.88498	0.88506			N/A
6/6/2019	EURGBP	3:30:00 PM	0.88546	0.8854			N/A
6/6/2019	EURGBP.fx	9:30:00 AM	0.88558	0.88544			N/A
6/6/2019	EURGBP.fx	11:30:00 AM	0.88542	0.88545			N/A
6/6/2019	EURGBP.fx	1:30:00 PM	0.88502	0.88502			N/A
6/6/2019	EURGBP.fx	3:30:00 PM	0.88549	0.88537			N/A

6/6/2019	EURHKD	9:30:00 AM	8.8016	8.8031			N/A
6/6/2019	EURHKD	11:30:00 AM	8.8096	8.8146			N/A
6/6/2019	EURHKD	1:30:00 PM	8.8061	8.8108			N/A
6/6/2019	EURHKD	3:30:00 PM	8.8326	8.8338			N/A
6/6/2019	EURHKD.fx	9:30:00 AM	8.80443	8.80025			N/A
6/6/2019	EURHKD.fx	11:30:00 AM	8.81245	8.81179			N/A
6/6/2019	EURHKD.fx	1:30:00 PM	8.80888	8.80795			N/A
6/6/2019	EURHKD.fx	3:30:00 PM	8.83545	8.83127			N/A
6/6/2019	EURHUF	9:30:00 AM	321.36	321.99			N/A
6/6/2019	EURHUF	11:30:00 AM	321.03	321.62			N/A
6/6/2019	EURHUF	1:30:00 PM	321.04	321.65			N/A
6/6/2019	EURHUF	3:30:00 PM	320.84	321.55			N/A
6/6/2019	EURHUF.fx	9:30:00 AM	321.564	321.718			N/A
6/6/2019	EURHUF.fx	11:30:00 AM	321.291	321.469			N/A
6/6/2019	EURHUF.fx	1:30:00 PM	321.371	321.509			N/A
6/6/2019	EURHUF.fx	3:30:00 PM	321.107	321.288			N/A
6/6/2019	EURJPY	9:30:00 AM	121.384	121.306	10	10	N/A
6/6/2019	EURJPY	11:30:00 AM	121.625	121.628			N/A
6/6/2019	EURJPY	1:30:00 PM	121.552	121.544			N/A
6/6/2019	EURJPY	3:30:00 PM	121.807	121.782			N/A
6/6/2019	EURJPY.fx	9:30:00 AM	121.387	121.302			N/A
6/6/2019	EURJPY.fx	11:30:00 AM	121.628	121.623			N/A
6/6/2019	EURJPY.fx	1:30:00 PM	121.555	121.54			N/A
6/6/2019	EURJPY.fx	3:30:00 PM	121.81	121.781			N/A
6/6/2019	EURMXN	9:30:00 AM	22.1983	22.2119			N/A
6/6/2019	EURMXN	11:30:00 AM	22.1411	22.1558			N/A
6/6/2019	EURMXN	1:30:00 PM	22.1369	22.1413			N/A
6/6/2019	EURMXN	3:30:00 PM	22.2231	22.2269			N/A
6/6/2019	EURMXN.f	9:30:00 AM	22.206	22.204			N/A
6/6/2019	EURMXN.f	11:30:00 AM	22.1492	22.1479			N/A
6/6/2019	EURMXN.f	1:30:00 PM	22.1461	22.1324			N/A
6/6/2019	EURMXN.f	3:30:00 PM	22.2319	22.2181			N/A
6/6/2019	EURNOK	9:30:00 AM	9.7978	9.8097			N/A
6/6/2019	EURNOK	11:30:00 AM	9.7934	9.8044			N/A

6/6/2019	EURNOK	1:30:00 PM	9.792	9.8037			N/A
6/6/2019	EURNOK	3:30:00 PM	9.8023	9.8132			N/A
6/6/2019	EURNOK.fx	9:30:00 AM	9.80329	9.80412			N/A
6/6/2019	EURNOK.fx	11:30:00 AM	9.79895	9.79896			N/A
6/6/2019	EURNOK.fx	1:30:00 PM	9.79742	9.79818			N/A
6/6/2019	EURNOK.fx	3:30:00 PM	9.80749	9.80932			N/A
6/6/2019	EURNZD	9:30:00 AM	1.69441	1.6948			N/A
6/6/2019	EURNZD	11:30:00 AM	1.69518	1.69576			N/A
6/6/2019	EURNZD	1:30:00 PM	1.6953	1.69613			N/A
6/6/2019	EURNZD	3:30:00 PM	1.69764	1.69829			N/A
6/6/2019	EURNZD.fx	9:30:00 AM	1.69482	1.69438			N/A
6/6/2019	EURNZD.fx	11:30:00 AM	1.6956	1.69534			N/A
6/6/2019	EURNZD.fx	1:30:00 PM	1.69574	1.69568			N/A
6/6/2019	EURNZD.fx	3:30:00 PM	1.69807	1.69785			N/A
6/6/2019	EURPLN	9:30:00 AM	4.2764	4.2795			N/A
6/6/2019	EURPLN	11:30:00 AM	4.276	4.279			N/A
6/6/2019	EURPLN	1:30:00 PM	4.2762	4.2794			N/A
6/6/2019	EURPLN	3:30:00 PM	4.2771	4.2804			N/A
6/6/2019	EURPLN.fx	9:30:00 AM	4.27572	4.28043			N/A
6/6/2019	EURPLN.fx	11:30:00 AM	4.27537	4.27952			N/A
6/6/2019	EURPLN.fx	1:30:00 PM	4.27567	4.27998			N/A
6/6/2019	EURPLN.fx	3:30:00 PM	4.27657	4.28099			N/A
6/6/2019	EURRUB	9:30:00 AM					N/A
6/6/2019	EURRUB	11:30:00 AM	72.861	73.302			N/A
6/6/2019	EURRUB	1:30:00 PM	72.848	73.286			N/A
6/6/2019	EURRUB	3:30:00 PM	73.052	73.402			N/A
6/6/2019	EURSEK	9:30:00 AM	10.6	10.6048			N/A
6/6/2019	EURSEK	11:30:00 AM	10.5959	10.5972			N/A
6/6/2019	EURSEK	1:30:00 PM	10.6076	10.6122			N/A
6/6/2019	EURSEK	3:30:00 PM	10.615	10.6177			N/A
6/6/2019	EURSEK.fx	9:30:00 AM	10.60162	10.60326			N/A
6/6/2019	EURSEK.fx	11:30:00 AM	10.59746	10.59522			N/A
6/6/2019	EURSEK.fx	1:30:00 PM	10.60926	10.61054			N/A
6/6/2019	EURSEK.fx	3:30:00 PM	10.61681	10.61634			N/A

6/6/2019	EURSGD	9:30:00 AM	1.5334	1.5339			N/A
6/6/2019	EURSGD	11:30:00 AM	1.5339	1.5347			N/A
6/6/2019	EURSGD	1:30:00 PM	1.5329	1.5336			N/A
6/6/2019	EURSGD	3:30:00 PM	1.5361	1.5365			N/A
6/6/2019	EURSGD.fx	9:30:00 AM	1.53378	1.53355			N/A
6/6/2019	EURSGD.fx	11:30:00 AM	1.53423	1.53428			N/A
6/6/2019	EURSGD.fx	1:30:00 PM	1.53333	1.53316			N/A
6/6/2019	EURSGD.fx	3:30:00 PM	1.53648	1.53617			N/A
6/6/2019	EURUSD	9:30:00 AM	1.12264	1.12225			N/A
6/6/2019	EURUSD	11:30:00 AM	1.1237	1.12377			N/A
6/6/2019	EURUSD	1:30:00 PM	1.12312	1.12311			N/A
6/6/2019	EURUSD	3:30:00 PM	1.1265	1.12609			N/A
6/6/2019	EURUSD.fx	9:30:00 AM	1.12284	1.12235			N/A
6/6/2019	EURUSD.fx	11:30:00 AM	1.1239	1.12386			N/A
6/6/2019	EURUSD.fx	1:30:00 PM	1.12332	1.1232			N/A
6/6/2019	EURUSD.fx	3:30:00 PM	1.1267	1.12621			N/A
6/6/2019	EURZAR	9:30:00 AM	16.7751	16.7838			N/A
6/6/2019	EURZAR	11:30:00 AM	16.7255	16.7413			N/A
6/6/2019	EURZAR	1:30:00 PM	16.7297	16.7409			N/A
6/6/2019	EURZAR	3:30:00 PM	16.7363	16.7461			N/A
6/6/2019	EURZAR.fx	9:30:00 AM	16.77394	16.78507			N/A
6/6/2019	EURZAR.fx	11:30:00 AM	16.72466	16.74212			N/A
6/6/2019	EURZAR.fx	1:30:00 PM	16.72927	16.74137			N/A
6/6/2019	EURZAR.fx	3:30:00 PM	16.73505	16.74783			N/A
6/6/2019	GBPAUD	9:30:00 AM	1.81941	1.82011			N/A
6/6/2019	GBPAUD	11:30:00 AM	1.81864	1.81914			N/A
6/6/2019	GBPAUD	1:30:00 PM	1.81859	1.81941			N/A
6/6/2019	GBPAUD	3:30:00 PM	1.82139	1.82204			N/A
6/6/2019	GBPAUD.fx	9:30:00 AM	1.81981	1.81969			N/A
6/6/2019	GBPAUD.fx	11:30:00 AM	1.81903	1.81876			N/A
6/6/2019	GBPAUD.fx	1:30:00 PM	1.81898	1.81897			N/A
6/6/2019	GBPAUD.fx	3:30:00 PM	1.82174	1.82167			N/A
6/6/2019	GBPCAD	9:30:00 AM	1.70097	1.70166			N/A
6/6/2019	GBPCAD	11:30:00 AM	1.70146	1.70229			N/A

6/6/2019	GBPCAD	1:30:00 PM	1.70175	1.70242			N/A
6/6/2019	GBPCAD	3:30:00 PM	1.70447	1.7049			N/A
6/6/2019	GBPCAD.fx	9:30:00 AM	1.70137	1.70126			N/A
6/6/2019	GBPCAD.fx	11:30:00 AM	1.70187	1.70189			N/A
6/6/2019	GBPCAD.fx	1:30:00 PM	1.70215	1.70202			N/A
6/6/2019	GBPCAD.fx	3:30:00 PM	1.70481	1.70457			N/A
6/6/2019	GBPCHF	9:30:00 AM	1.25984	1.26014			N/A
6/6/2019	GBPCHF	11:30:00 AM	1.26205	1.26234			N/A
6/6/2019	GBPCHF	1:30:00 PM	1.26308	1.26337			N/A
6/6/2019	GBPCHF	3:30:00 PM	1.26157	1.26191			N/A
6/6/2019	GBPCHF.fx	9:30:00 AM	1.25999	1.25995			N/A
6/6/2019	GBPCHF.fx	11:30:00 AM	1.26223	1.26212			N/A
6/6/2019	GBPCHF.fx	1:30:00 PM	1.26329	1.26318			N/A
6/6/2019	GBPCHF.fx	3:30:00 PM	1.26175	1.26175			N/A
6/6/2019	GBPCZK	9:30:00 AM	28.943	28.956			N/A
6/6/2019	GBPCZK	11:30:00 AM	28.943	28.966			N/A
6/6/2019	GBPCZK	1:30:00 PM	28.946	28.967			N/A
6/6/2019	GBPCZK	3:30:00 PM	28.94	28.958			N/A
6/6/2019	GBPDKK	9:30:00 AM	8.43	8.439			N/A
6/6/2019	GBPDKK	11:30:00 AM	8.43	8.441			N/A
6/6/2019	GBPDKK	1:30:00 PM	8.434	8.445			N/A
6/6/2019	GBPDKK	3:30:00 PM	8.43	8.44			N/A
6/6/2019	GBPDKK.fx	9:30:00 AM	8.428	8.4396			N/A
6/6/2019	GBPDKK.fx	11:30:00 AM	8.4281	8.4409			N/A
6/6/2019	GBPDKK.fx	1:30:00 PM	8.4324	8.4451			N/A
6/6/2019	GBPDKK.fx	3:30:00 PM	8.4277	8.4399			N/A
6/6/2019	GBPHKD	9:30:00 AM	9.935	9.94			N/A
6/6/2019	GBPHKD	11:30:00 AM	9.9465	9.9522			N/A
6/6/2019	GBPHKD	1:30:00 PM	9.9473	9.9524			N/A
6/6/2019	GBPHKD	3:30:00 PM	9.9718	9.9735			N/A
6/6/2019	GBPHUF	9:30:00 AM	362.86	363.2			N/A
6/6/2019	GBPHUF	11:30:00 AM	362.55	363.03			N/A
6/6/2019	GBPHUF	1:30:00 PM	362.79	363.24			N/A
6/6/2019	GBPHUF	3:30:00 PM	362.2	362.59			N/A

6/6/2019	GBPJPY	9:30:00 AM	137.044	137.03			N/A
6/6/2019	GBPJPY	11:30:00 AM	137.344	137.383			N/A
6/6/2019	GBPJPY	1:30:00 PM	137.325	137.358			N/A
6/6/2019	GBPJPY	3:30:00 PM	137.546	137.566			N/A
6/6/2019	GBPJPY.fx	9:30:00 AM	137.063	137.011			N/A
6/6/2019	GBPJPY.fx	11:30:00 AM	137.364	137.362			N/A
6/6/2019	GBPJPY.fx	1:30:00 PM	137.343	137.337			N/A
6/6/2019	GBPJPY.fx	3:30:00 PM	137.565	137.548			N/A
6/6/2019	GBPMXN	9:30:00 AM	25.0623	25.0714			N/A
6/6/2019	GBPMXN	11:30:00 AM	25	25.0091			N/A
6/6/2019	GBPMXN	1:30:00 PM	25.007	25.0038			N/A
6/6/2019	GBPMXN	3:30:00 PM	25.0886	25.0897			N/A
6/6/2019	GBPNOK	9:30:00 AM	11.0665	11.0752			N/A
6/6/2019	GBPNOK	11:30:00 AM	11.061	11.0718			N/A
6/6/2019	GBPNOK	1:30:00 PM	11.0643	11.0759			N/A
6/6/2019	GBPNOK	3:30:00 PM	11.0724	11.0816			N/A
6/6/2019	GBPNOK.fx	9:30:00 AM	11.071	11.07039			N/A
6/6/2019	GBPNOK.fx	11:30:00 AM	11.06577	11.06699			N/A
6/6/2019	GBPNOK.fx	1:30:00 PM	11.06903	11.07098			N/A
6/6/2019	GBPNOK.fx	3:30:00 PM	11.07614	11.07727			N/A
6/6/2019	GBPNZD	9:30:00 AM	1.91338	1.91394			N/A
6/6/2019	GBPNZD	11:30:00 AM	1.91465	1.91504			N/A
6/6/2019	GBPNZD	1:30:00 PM	1.91555	1.91634			N/A
6/6/2019	GBPNZD	3:30:00 PM	1.91762	1.91794			N/A
6/6/2019	GBPNZD.fx	9:30:00 AM	1.91374	1.91359			N/A
6/6/2019	GBPNZD.fx	11:30:00 AM	1.91503	1.91472			N/A
6/6/2019	GBPNZD.fx	1:30:00 PM	1.91593	1.91595			N/A
6/6/2019	GBPNZD.fx	3:30:00 PM	1.91769	1.91755			N/A
6/6/2019	GBPPLN	9:30:00 AM	4.8307	4.8317			N/A
6/6/2019	GBPPLN	11:30:00 AM	4.8302	4.8317			N/A
6/6/2019	GBPPLN	1:30:00 PM	4.8329	4.8344			N/A
6/6/2019	GBPPLN	3:30:00 PM	4.8317	4.833			N/A
6/6/2019	GBPPLN.fx	9:30:00 AM	4.82838	4.83405			N/A
6/6/2019	GBPPLN.fx	11:30:00 AM	4.82796	4.83386			N/A

6/6/2019	GBPPLN.fx	1:30:00 PM	4.83093	4.83654			N/A
6/6/2019	GBPPLN.fx	3:30:00 PM	4.82901	4.83535			N/A
6/6/2019	GBPSEK	9:30:00 AM	11.9699	11.9765			N/A
6/6/2019	GBPSEK	11:30:00 AM	11.9642	11.9711			N/A
6/6/2019	GBPSEK	1:30:00 PM	11.9837	11.9931			N/A
6/6/2019	GBPSEK	3:30:00 PM	11.9867	11.9932			N/A
6/6/2019	GBPSEK.fx	9:30:00 AM	11.96633	11.9802			N/A
6/6/2019	GBPSEK.fx	11:30:00 AM	11.96062	11.97456			N/A
6/6/2019	GBPSEK.fx	1:30:00 PM	11.98002	11.99669			N/A
6/6/2019	GBPSEK.fx	3:30:00 PM	11.98289	11.99711			N/A
6/6/2019	GBPSGD	9:30:00 AM	1.7317	1.7324			N/A
6/6/2019	GBPSGD	11:30:00 AM	1.7325	1.7332			N/A
6/6/2019	GBPSGD	1:30:00 PM	1.7322	1.7329			N/A
6/6/2019	GBPSGD	3:30:00 PM	1.7349	1.7352			N/A
6/6/2019	GBPSGD.fx	9:30:00 AM	1.72983	1.73412			N/A
6/6/2019	GBPSGD.fx	11:30:00 AM	1.73059	1.73496			N/A
6/6/2019	GBPSGD.fx	1:30:00 PM	1.73031	1.73466			N/A
6/6/2019	GBPSGD.fx	3:30:00 PM	1.73307	1.73729			N/A
6/6/2019	GBPUSD	9:30:00 AM	1.26781	1.26769			N/A
6/6/2019	GBPUSD	11:30:00 AM	1.26923	1.26931			N/A
6/6/2019	GBPUSD	1:30:00 PM	1.26921	1.26927			N/A
6/6/2019	GBPUSD	3:30:00 PM	1.27245	1.27205			N/A
6/6/2019	GBPUSD.fx	9:30:00 AM	1.26786	1.26763			N/A
6/6/2019	GBPUSD.fx	11:30:00 AM	1.26927	1.26925			N/A
6/6/2019	GBPUSD.fx	1:30:00 PM	1.26927	1.26921			N/A
6/6/2019	GBPUSD.fx	3:30:00 PM	1.27251	1.27208			N/A
6/6/2019	GBPZAR	9:30:00 AM	18.938	18.9575			N/A
6/6/2019	GBPZAR	11:30:00 AM	18.8863	18.9102			N/A
6/6/2019	GBPZAR	1:30:00 PM	18.8997	18.9195			N/A
6/6/2019	GBPZAR	3:30:00 PM	18.8975	18.9183			N/A
6/6/2019	GBPZAR.fx	9:30:00 AM	18.944	18.9503			N/A
6/6/2019	GBPZAR.fx	11:30:00 AM	18.8936	18.9027			N/A
6/6/2019	GBPZAR.fx	1:30:00 PM	18.9077	18.9117			N/A
6/6/2019	GBPZAR.fx	3:30:00 PM	18.9046	18.912			N/A

6/6/2019	GOLD	9:30:00 AM	1331.7	1331.92			N/A
6/6/2019	GOLD	11:30:00 AM	1336.53	1336.81			N/A
6/6/2019	GOLD	1:30:00 PM	1336.35	1336.56			N/A
6/6/2019	GOLD	3:30:00 PM	1337.36	1336.84			N/A
6/6/2019	HKDJPY	9:30:00 AM	13.78	13.79			N/A
6/6/2019	HKDJPY	11:30:00 AM	13.8	13.81			N/A
6/6/2019	HKDJPY	1:30:00 PM	13.8	13.81			N/A
6/6/2019	HKDJPY	3:30:00 PM	13.79	13.8			N/A
6/6/2019	HKDJPY.fx	9:30:00 AM	13.783	13.786			N/A
6/6/2019	HKDJPY.fx	11:30:00 AM	13.798	13.805			N/A
6/6/2019	HKDJPY.fx	1:30:00 PM	13.795	13.802			N/A
6/6/2019	HKDJPY.fx	3:30:00 PM	13.784	13.79			N/A
6/6/2019	HUFJPY	9:30:00 AM	0.378	0.3782			N/A
6/6/2019	HUFJPY	11:30:00 AM	0.3788	0.3791			N/A
6/6/2019	HUFJPY	1:30:00 PM	0.3784	0.3787			N/A
6/6/2019	HUFJPY	3:30:00 PM	0.3794	0.3798			N/A
6/6/2019	JP225.i	9:30:00 AM	20742.76	20757.76			N/A
6/6/2019	JP225.i	11:30:00 AM	20822.76	20842.76			N/A
6/6/2019	JP225.i	1:30:00 PM	20832.76	20842.76			N/A
6/6/2019	JP225.i	3:30:00 PM	20797.76	20802.76			N/A
6/6/2019	MXNJPY	9:30:00 AM	5.47	5.47			N/A
6/6/2019	MXNJPY	11:30:00 AM					N/A
6/6/2019	MXNJPY	1:30:00 PM	5.49	5.5			N/A
6/6/2019	MXNJPY	3:30:00 PM	5.48	5.49			N/A
6/6/2019	NASDAQ.i	9:30:00 AM					N/A
6/6/2019	NASDAQ.i	11:30:00 AM					N/A
6/6/2019	NASDAQ.i	1:30:00 PM					N/A
6/6/2019	NASDAQ.i	3:30:00 PM					N/A
6/6/2019	NOKJPY	9:30:00 AM	12.37	12.4			N/A
6/6/2019	NOKJPY	11:30:00 AM	12.4	12.43			N/A
6/6/2019	NOKJPY	1:30:00 PM	12.39	12.43			N/A
6/6/2019	NOKJPY	3:30:00 PM	12.41	12.44			N/A
6/6/2019	NOKJPY.fx	9:30:00 AM	12.378	12.377			N/A
6/6/2019	NOKJPY.fx	11:30:00 AM	12.409	12.415			N/A

6/6/2019	NOKJPY.fx	1:30:00 PM	12.403	12.409			N/A
6/6/2019	NOKJPY.fx	3:30:00 PM	12.415	12.42			N/A
6/6/2019	NZDCAD	9:30:00 AM	0.8887	0.88933			N/A
6/6/2019	NZDCAD	11:30:00 AM	0.88852	0.88905			N/A
6/6/2019	NZDCAD	1:30:00 PM	0.88805	0.8887			N/A
6/6/2019	NZDCAD	3:30:00 PM	0.88869	0.88919			N/A
6/6/2019	NZDCAD.fx	9:30:00 AM	0.88902	0.88898			N/A
6/6/2019	NZDCAD.fx	11:30:00 AM	0.88886	0.88872			N/A
6/6/2019	NZDCAD.fx	1:30:00 PM	0.88839	0.88836			N/A
6/6/2019	NZDCAD.fx	3:30:00 PM	0.88902	0.88888			N/A
6/6/2019	NZDCHF	9:30:00 AM	0.65814	0.6587			N/A
6/6/2019	NZDCHF	11:30:00 AM	0.65881	0.65949			N/A
6/6/2019	NZDCHF	1:30:00 PM	0.65897	0.65961			N/A
6/6/2019	NZDCHF	3:30:00 PM	0.65766	0.65823			N/A
6/6/2019	NZDCHF.fx	9:30:00 AM	0.65847	0.65835			N/A
6/6/2019	NZDCHF.fx	11:30:00 AM	0.65916	0.65914			N/A
6/6/2019	NZDCHF.fx	1:30:00 PM	0.65931	0.65926			N/A
6/6/2019	NZDCHF.fx	3:30:00 PM	0.658	0.65793			N/A
6/6/2019	NZDCZK	9:30:00 AM	15.123	15.131			N/A
6/6/2019	NZDCZK	11:30:00 AM	15.114	15.126			N/A
6/6/2019	NZDCZK	1:30:00 PM	15.107	15.118			N/A
6/6/2019	NZDCZK	3:30:00 PM	15.09	15.101			N/A
6/6/2019	NZDDKK	9:30:00 AM	4.405	4.408			N/A
6/6/2019	NZDDKK	11:30:00 AM	4.403	4.406			N/A
6/6/2019	NZDDKK	1:30:00 PM					N/A
6/6/2019	NZDDKK	3:30:00 PM	4.394	4.398			N/A
6/6/2019	NZDHKD	9:30:00 AM	5.1915	5.1942			N/A
6/6/2019	NZDHKD	11:30:00 AM	5.1941	5.1964			N/A
6/6/2019	NZDHKD	1:30:00 PM	5.1913	5.1936			N/A
6/6/2019	NZDHKD	3:30:00 PM	5.1986	5.2005			N/A
6/6/2019	NZDHUF	9:30:00 AM	189.57	189.79			N/A
6/6/2019	NZDHUF	11:30:00 AM	189.3	189.59			N/A
6/6/2019	NZDHUF	1:30:00 PM	189.32	189.6			N/A
6/6/2019	NZDHUF	3:30:00 PM	188.84	189.1			N/A

6/6/2019	NZDJPY	9:30:00 AM	71.587	71.631			N/A
6/6/2019	NZDJPY	11:30:00 AM	71.703	71.768			N/A
6/6/2019	NZDJPY	1:30:00 PM	71.648	71.713			N/A
6/6/2019	NZDJPY	3:30:00 PM	71.703	71.758			N/A
6/6/2019	NZDJPY.fx	9:30:00 AM	71.619	71.599			N/A
6/6/2019	NZDJPY.fx	11:30:00 AM	71.734	71.734			N/A
6/6/2019	NZDJPY.fx	1:30:00 PM	71.68	71.679			N/A
6/6/2019	NZDJPY.fx	3:30:00 PM	71.734	71.73			N/A
6/6/2019	NZDMXN	9:30:00 AM	13.0944	13.0984			N/A
6/6/2019	NZDMXN	11:30:00 AM	13.0546	13.0597			N/A
6/6/2019	NZDMXN	1:30:00 PM	13.0514	13.0476			N/A
6/6/2019	NZDMXN	3:30:00 PM	13.0834	13.0805			N/A
6/6/2019	NZDNOK	9:30:00 AM	5.7806	5.7825			N/A
6/6/2019	NZDNOK	11:30:00 AM	5.7757	5.7779			N/A
6/6/2019	NZDNOK	1:30:00 PM	5.7735	5.7767			N/A
6/6/2019	NZDNOK	3:30:00 PM	5.7694	5.7724			N/A
6/6/2019	NZDPLN	9:30:00 AM	2.5228	2.524			N/A
6/6/2019	NZDPLN	11:30:00 AM	2.5213	2.5227			N/A
6/6/2019	NZDPLN	1:30:00 PM	2.5215	2.5226			N/A
6/6/2019	NZDPLN	3:30:00 PM	2.5172	2.5186			N/A
6/6/2019	NZDSEK	9:30:00 AM	6.2513	6.2566			N/A
6/6/2019	NZDSEK	11:30:00 AM	6.2447	6.2493			N/A
6/6/2019	NZDSEK	1:30:00 PM	6.2512	6.2575			N/A
6/6/2019	NZDSEK	3:30:00 PM	6.2462	6.2523			N/A
6/6/2019	NZDSGD	9:30:00 AM	0.9048	0.9053			N/A
6/6/2019	NZDSGD	11:30:00 AM	0.9047	0.9052			N/A
6/6/2019	NZDSGD	1:30:00 PM	0.9039	0.9045			N/A
6/6/2019	NZDSGD	3:30:00 PM	0.9046	0.9051			N/A
6/6/2019	NZDSGD.fx	9:30:00 AM	0.90479	0.90526			N/A
6/6/2019	NZDSGD.fx	11:30:00 AM	0.90468	0.90511			N/A
6/6/2019	NZDSGD.fx	1:30:00 PM	0.90396	0.90441			N/A
6/6/2019	NZDSGD.fx	3:30:00 PM	0.90459	0.90506			N/A
6/6/2019	NZDUSD	9:30:00 AM	0.66238	0.66244			N/A
6/6/2019	NZDUSD	11:30:00 AM	0.66279	0.66281			N/A

6/6/2019	NZDUSD	1:30:00 PM	0.66234	0.66244			N/A
6/6/2019	NZDUSD	3:30:00 PM	0.66341	0.66325			N/A
6/6/2019	NZDUSD.fx	9:30:00 AM	0.66245	0.66245			N/A
6/6/2019	NZDUSD.fx	11:30:00 AM	0.66286	0.66282			N/A
6/6/2019	NZDUSD.fx	1:30:00 PM	0.66241	0.66245			N/A
6/6/2019	NZDUSD.fx	3:30:00 PM	0.66349	0.66331			N/A
6/6/2019	NZDZAR	9:30:00 AM	9.8888	9.9019			N/A
6/6/2019	NZDZAR	11:30:00 AM	9.8558	9.8716			N/A
6/6/2019	NZDZAR	1:30:00 PM	9.8585	9.8697			N/A
6/6/2019	NZDZAR	3:30:00 PM	9.8453	9.8567			N/A
6/6/2019	SEKJPY	9:30:00 AM	11.45	11.45			N/A
6/6/2019	SEKJPY	11:30:00 AM	11.48	11.49			N/A
6/6/2019	SEKJPY	1:30:00 PM	11.46	11.47			N/A
6/6/2019	SEKJPY	3:30:00 PM	11.47	11.48			N/A
6/6/2019	SEKJPY.fx	9:30:00 AM	11.439	11.45			N/A
6/6/2019	SEKJPY.fx	11:30:00 AM	11.47	11.485			N/A
6/6/2019	SEKJPY.fx	1:30:00 PM	11.447	11.464			N/A
6/6/2019	SEKJPY.fx	3:30:00 PM	11.464	11.481			N/A
6/6/2019	SGDJPY	9:30:00 AM	79.1	79.1			N/A
6/6/2019	SGDJPY	11:30:00 AM	79.24	79.27			N/A
6/6/2019	SGDJPY	1:30:00 PM	79.26	79.27			N/A
6/6/2019	SGDJPY	3:30:00 PM	79.24	79.27			N/A
6/6/2019	SILVER	9:30:00 AM	14.63	15.01			N/A
6/6/2019	SILVER	11:30:00 AM	14.75	15.12			N/A
6/6/2019	SILVER	1:30:00 PM	14.75	15.12			N/A
6/6/2019	SILVER	3:30:00 PM	14.79	15.15			N/A
6/6/2019	SPX500.i	9:30:00 AM	2822.43	2822.36			N/A
6/6/2019	SPX500.i	11:30:00 AM	2834.81	2835.48			N/A
6/6/2019	SPX500.i	1:30:00 PM	2835.68	2836.23			N/A
6/6/2019	SPX500.i	3:30:00 PM	2834.68	2834.98			N/A
6/6/2019	UK100.i	9:30:00 AM	7222.38	7222.13			N/A
6/6/2019	UK100.i	11:30:00 AM	7260.54	7261.29			N/A
6/6/2019	UK100.i	1:30:00 PM	7268.29	7267.54			N/A
6/6/2019	UK100.i	3:30:00 PM	7263.54	7262.88			N/A

6/6/2019	USDCAD	9:30:00 AM	1.34207	1.34196			N/A
6/6/2019	USDCAD	11:30:00 AM	1.34087	1.34098			N/A
6/6/2019	USDCAD	1:30:00 PM	1.34115	1.34115			N/A
6/6/2019	USDCAD	3:30:00 PM	1.34028	1.33994			N/A
6/6/2019	USDCAD.fx	9:30:00 AM	1.34211	1.34193			N/A
6/6/2019	USDCAD.fx	11:30:00 AM	1.34091	1.34095			N/A
6/6/2019	USDCAD.fx	1:30:00 PM	1.34119	1.3411			N/A
6/6/2019	USDCAD.fx	3:30:00 PM	1.34025	1.3399			N/A
6/6/2019	USDCHF	9:30:00 AM	0.99391	0.99379			N/A
6/6/2019	USDCHF	11:30:00 AM	0.99439	0.99438			N/A
6/6/2019	USDCHF	1:30:00 PM	0.99527	0.99524			N/A
6/6/2019	USDCHF	3:30:00 PM	0.99177	0.99167			N/A
6/6/2019	USDCHF.fx	9:30:00 AM	0.99396	0.99372			N/A
6/6/2019	USDCHF.fx	11:30:00 AM	0.99443	0.99432			N/A
6/6/2019	USDCHF.fx	1:30:00 PM	0.99531	0.99517			N/A
6/6/2019	USDCHF.fx	3:30:00 PM	0.99179	0.99161			N/A
6/6/2019	USDCZK	9:30:00 AM	22.851	22.862			N/A
6/6/2019	USDCZK	11:30:00 AM	22.82	22.843			N/A
6/6/2019	USDCZK	1:30:00 PM	22.825	22.846			N/A
6/6/2019	USDCZK	3:30:00 PM	22.77	22.785			N/A
6/6/2019	USDCZK.fx	9:30:00 AM	22.86	22.8541			N/A
6/6/2019	USDCZK.fx	11:30:00 AM	22.829	22.833			N/A
6/6/2019	USDCZK.fx	1:30:00 PM	22.8339	22.8368			N/A
6/6/2019	USDCZK.fx	3:30:00 PM	22.7777	22.7753			N/A
6/6/2019	USDDKK	9:30:00 AM	6.6526	6.6538			N/A
6/6/2019	USDDKK	11:30:00 AM	6.6437	6.6477			N/A
6/6/2019	USDDKK	1:30:00 PM	6.6476	6.6512			N/A
6/6/2019	USDDKK	3:30:00 PM	6.6294	6.6306			N/A
6/6/2019	USDDKK.fx	9:30:00 AM	6.65321	6.65171			N/A
6/6/2019	USDDKK.fx	11:30:00 AM	6.64427	6.64548			N/A
6/6/2019	USDDKK.fx	1:30:00 PM	6.64824	6.64897			N/A
6/6/2019	USDDKK.fx	3:30:00 PM	6.62943	6.6286			N/A
6/6/2019	USDHKD	9:30:00 AM	7.8403	7.8406			N/A
6/6/2019	USDHKD	11:30:00 AM	7.8399	7.8403			N/A

6/6/2019	USDHKD	1:30:00 PM	7.8409	7.8412			N/A
6/6/2019	USDHKD	3:30:00 PM	7.8408	7.8408			N/A
6/6/2019	USDHKD.fx	9:30:00 AM	7.84018	7.84075			N/A
6/6/2019	USDHKD.fx	11:30:00 AM	7.83985	7.84044			N/A
6/6/2019	USDHKD.fx	1:30:00 PM	7.84087	7.84147			N/A
6/6/2019	USDHKD.fx	3:30:00 PM	7.84081	7.84114			N/A
6/6/2019	USDHUF	9:30:00 AM	286.33	286.66			N/A
6/6/2019	USDHUF	11:30:00 AM	285.7	286.17			N/A
6/6/2019	USDHUF	1:30:00 PM	285.92	286.37			N/A
6/6/2019	USDHUF	3:30:00 PM	284.94	285.29			N/A
6/6/2019	USDHUF.fx	9:30:00 AM	286.499	286.465			N/A
6/6/2019	USDHUF.fx	11:30:00 AM	285.895	285.975			N/A
6/6/2019	USDHUF.fx	1:30:00 PM	286.125	286.155			N/A
6/6/2019	USDHUF.fx	3:30:00 PM	285.123	285.108			N/A
6/6/2019	USDINR	9:30:00 AM	64.34	74.32			N/A
6/6/2019	USDINR	11:30:00 AM	64.27	74.25			N/A
6/6/2019	USDINR	1:30:00 PM					N/A
6/6/2019	USDINR	3:30:00 PM					N/A
6/6/2019	USDJPY	9:30:00 AM	108.101	108.085			N/A
6/6/2019	USDJPY	11:30:00 AM	108.219	108.224			N/A
6/6/2019	USDJPY	1:30:00 PM	108.209	108.212			N/A
6/6/2019	USDJPY	3:30:00 PM	108.124	108.119			N/A
6/6/2019	USDJPY.fx	9:30:00 AM	108.107	108.078			N/A
6/6/2019	USDJPY.fx	11:30:00 AM	108.225	108.216			N/A
6/6/2019	USDJPY.fx	1:30:00 PM	108.214	108.203			N/A
6/6/2019	USDJPY.fx	3:30:00 PM	108.128	108.11			N/A
6/6/2019	USDMXN	9:30:00 AM	19.78	19.779			N/A
6/6/2019	USDMXN	11:30:00 AM	19.706	19.709			N/A
6/6/2019	USDMXN	1:30:00 PM	19.711	19.706			N/A
6/6/2019	USDMXN	3:30:00 PM	19.731	19.726			N/A
6/6/2019	USDMXN.f	9:30:00 AM	19.7834	19.776			N/A
6/6/2019	USDMXN.f	11:30:00 AM	19.7093	19.7047			N/A
6/6/2019	USDMXN.f	1:30:00 PM	19.7167	19.702			N/A
6/6/2019	USDMXN.f	3:30:00 PM	19.7339	19.7226			N/A

6/6/2019	USDNOK	9:30:00 AM	8.7304	8.735			N/A
6/6/2019	USDNOK	11:30:00 AM	8.7145	8.7225			N/A
6/6/2019	USDNOK	1:30:00 PM	8.7177	8.7258			N/A
6/6/2019	USDNOK	3:30:00 PM	8.704	8.7096			N/A
6/6/2019	USDNOK.fx	9:30:00 AM	8.73407	8.73023			N/A
6/6/2019	USDNOK.fx	11:30:00 AM	8.71852	8.71811			N/A
6/6/2019	USDNOK.fx	1:30:00 PM	8.72167	8.72145			N/A
6/6/2019	USDNOK.fx	3:30:00 PM	8.70768	8.70528			N/A
6/6/2019	USDPLN	9:30:00 AM	3.8108	3.8108			N/A
6/6/2019	USDPLN	11:30:00 AM	3.8055	3.8067			N/A
6/6/2019	USDPLN	1:30:00 PM	3.8078	3.8091			N/A
6/6/2019	USDPLN	3:30:00 PM	3.7983	3.7986			N/A
6/6/2019	USDPLN.fx	9:30:00 AM	3.80987	3.81163			N/A
6/6/2019	USDPLN.fx	11:30:00 AM	3.80468	3.80731			N/A
6/6/2019	USDPLN.fx	1:30:00 PM	3.80699	3.80981			N/A
6/6/2019	USDPLN.fx	3:30:00 PM	3.79731	3.79941			N/A
6/6/2019	USDRUB	9:30:00 AM					N/A
6/6/2019	USDRUB	11:30:00 AM	64.961	65.358			N/A
6/6/2019	USDRUB	1:30:00 PM	64.977	65.365			N/A
6/6/2019	USDRUB	3:30:00 PM	64.966	65.335			N/A
6/6/2019	USDSEK	9:30:00 AM	9.4436	9.4442			N/A
6/6/2019	USDSEK	11:30:00 AM	9.4275	9.4291			N/A
6/6/2019	USDSEK	1:30:00 PM	9.4431	9.4471			N/A
6/6/2019	USDSEK	3:30:00 PM	9.4237	9.4247			N/A
6/6/2019	USDSEK.fx	9:30:00 AM	9.44658	9.44253			N/A
6/6/2019	USDSEK.fx	11:30:00 AM	9.42984	9.42704			N/A
6/6/2019	USDSEK.fx	1:30:00 PM	9.44557	9.44533			N/A
6/6/2019	USDSEK.fx	3:30:00 PM	9.4257	9.42305			N/A
6/6/2019	USDSGD	9:30:00 AM	1.3661	1.3662			N/A
6/6/2019	USDSGD	11:30:00 AM	1.365	1.3654			N/A
6/6/2019	USDSGD	1:30:00 PM	1.3649	1.3652			N/A
6/6/2019	USDSGD	3:30:00 PM	1.3637	1.364			N/A
6/6/2019	USDSGD.fx	9:30:00 AM	1.36603	1.36622			N/A
6/6/2019	USDSGD.fx	11:30:00 AM	1.36493	1.3654			N/A

6/6/2019	USDSGD.fx	1:30:00 PM	1.36477	1.36519			N/A
6/6/2019	USDSGD.fx	3:30:00 PM	1.36358	1.36398			N/A
6/6/2019	USDZAR	9:30:00 AM	14.9404	14.9509			N/A
6/6/2019	USDZAR	11:30:00 AM	14.8823	14.8961			N/A
6/6/2019	USDZAR	1:30:00 PM	14.8938	14.9027			N/A
6/6/2019	USDZAR	3:30:00 PM	14.8587	14.8679			N/A
6/6/2019	USDZAR.fx	9:30:00 AM					N/A
6/6/2019	USDZAR.fx	11:30:00 AM					N/A
6/6/2019	USDZAR.fx	1:30:00 PM					N/A
6/6/2019	USDZAR.fx	3:30:00 PM					N/A
6/6/2019	XAUUSD	9:30:00 AM	1331.7	1331.91			N/A
6/6/2019	XAUUSD	11:30:00 AM	1336.54	1336.8			N/A
6/6/2019	XAUUSD	1:30:00 PM	1336.36	1336.55			N/A
6/6/2019	XAUUSD	3:30:00 PM	1337.37	1336.85			N/A
6/6/2019	ZARJPY	9:30:00 AM	7.22	7.23			N/A
6/6/2019	ZARJPY	11:30:00 AM	7.24	7.28			N/A
6/6/2019	ZARJPY	1:30:00 PM	7.24	7.28			N/A
6/6/2019	ZARJPY	3:30:00 PM	7.26	7.28			N/A
6/6/2019	ZARJPY.fx	9:30:00 AM	7.232	7.233			N/A
6/6/2019	ZARJPY.fx	11:30:00 AM	7.266	7.269			N/A
6/6/2019	ZARJPY.fx	1:30:00 PM	7.263	7.262			N/A
6/6/2019	ZARJPY.fx	3:30:00 PM	7.273	7.274			N/A
6/7/2019	#AA	9:30:00 AM					N/A
6/7/2019	#AA	11:30:00 AM					N/A
6/7/2019	#AA	1:30:00 PM					N/A
6/7/2019	#AA	3:30:00 PM					N/A
6/7/2019	#AABA	9:30:00 AM					N/A
6/7/2019	#AABA	11:30:00 AM					N/A
6/7/2019	#AABA	1:30:00 PM					N/A
6/7/2019	#AABA	3:30:00 PM					N/A
6/10/2019	#AAL	9:30:00 AM					N/A
6/10/2019	#AAL	11:30:00 AM					N/A
6/10/2019	#AAL	1:30:00 PM					N/A
6/10/2019	#AAL	3:30:00 PM					N/A

6/10/2019	#AAPL	9:30:00 AM					N/A
6/10/2019	#AAPL	11:30:00 AM					N/A
6/10/2019	#AAPL	1:30:00 PM					N/A
6/10/2019	#AAPL	3:30:00 PM					N/A
6/10/2019	#ADBE	9:30:00 AM					N/A
6/10/2019	#ADBE	11:30:00 AM					N/A
6/10/2019	#ADBE	1:30:00 PM					N/A
6/10/2019	#ADBE	3:30:00 PM					N/A
6/10/2019	#AIG	9:30:00 AM					N/A
6/10/2019	#AIG	11:30:00 AM					N/A
6/10/2019	#AIG	1:30:00 PM					N/A
6/10/2019	#AIG	3:30:00 PM					N/A
6/10/2019	#AMD	9:30:00 AM					N/A
6/10/2019	#AMD	11:30:00 AM					N/A
6/10/2019	#AMD	1:30:00 PM					N/A
6/10/2019	#AMD	3:30:00 PM					N/A
6/10/2019	#AMZN	9:30:00 AM					N/A
6/10/2019	#AMZN	11:30:00 AM					N/A
6/10/2019	#AMZN	1:30:00 PM					N/A
6/10/2019	#AMZN	3:30:00 PM					N/A
6/10/2019	#AXP	9:30:00 AM					N/A
6/10/2019	#AXP	11:30:00 AM					N/A
6/10/2019	#AXP	1:30:00 PM					N/A
6/10/2019	#AXP	3:30:00 PM					N/A
6/10/2019	#BA	9:30:00 AM					N/A
6/10/2019	#BA	11:30:00 AM					N/A
6/10/2019	#BA	1:30:00 PM					N/A
6/10/2019	#BA	3:30:00 PM					N/A
6/10/2019	#BABA	9:30:00 AM					N/A
6/10/2019	#BABA	11:30:00 AM					N/A
6/10/2019	#BABA	1:30:00 PM					N/A
6/10/2019	#BABA	3:30:00 PM					N/A
6/10/2019	#BAC	9:30:00 AM					N/A
6/10/2019	#BAC	11:30:00 AM					N/A

6/10/2019	#BAC	1:30:00 PM					N/A
6/10/2019	#BAC	3:30:00 PM					N/A
6/10/2019	#BARC	9:30:00 AM					N/A
6/10/2019	#BARC	11:30:00 AM					N/A
6/10/2019	#BARC	1:30:00 PM					N/A
6/10/2019	#BARC	3:30:00 PM					N/A
6/10/2019	#BHP	9:30:00 AM					N/A
6/10/2019	#BHP	11:30:00 AM					N/A
6/10/2019	#BHP	1:30:00 PM					N/A
6/10/2019	#BHP	3:30:00 PM					N/A
6/10/2019	#BIDU	9:30:00 AM					N/A
6/10/2019	#BIDU	11:30:00 AM					N/A
6/10/2019	#BIDU	1:30:00 PM					N/A
6/10/2019	#BIDU	3:30:00 PM					N/A
6/10/2019	#Bitcoin	9:30:00 AM	7697.5	7721.9			N/A
6/10/2019	#Bitcoin	11:30:00 AM	7724.6	7753.9			N/A
6/10/2019	#Bitcoin	1:30:00 PM	7652.4	7684			N/A
6/10/2019	#Bitcoin	3:30:00 PM	7962.25	7992.5			N/A
6/10/2019	#BK	9:30:00 AM					N/A
6/10/2019	#BK	11:30:00 AM					N/A
6/10/2019	#BK	1:30:00 PM					N/A
6/10/2019	#BK	3:30:00 PM					N/A
6/10/2019	#BLT	9:30:00 AM					N/A
6/10/2019	#BLT	11:30:00 AM					N/A
6/10/2019	#BLT	1:30:00 PM					N/A
6/10/2019	#BLT	3:30:00 PM					N/A
6/10/2019	#BP	9:30:00 AM					N/A
6/10/2019	#BP	11:30:00 AM					N/A
6/10/2019	#BP	1:30:00 PM					N/A
6/10/2019	#BP	3:30:00 PM					N/A
6/10/2019	#BTA	9:30:00 AM					N/A
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6/10/2019	#WFC	11:30:00 AM					N/A
6/10/2019	#WFC	1:30:00 PM					N/A
6/10/2019	#WFC	3:30:00 PM					N/A
6/10/2019	#WMT	9:30:00 AM					N/A
6/10/2019	#WMT	11:30:00 AM					N/A
6/10/2019	#WMT	1:30:00 PM					N/A
6/10/2019	#WMT	3:30:00 PM					N/A
6/10/2019	#XOM	9:30:00 AM					N/A
6/10/2019	#XOM	11:30:00 AM					N/A
6/10/2019	#XOM	1:30:00 PM					N/A
6/10/2019	#XOM	3:30:00 PM					N/A
6/10/2019	#YHOO	9:30:00 AM					N/A
6/10/2019	#YHOO	11:30:00 AM					N/A
6/10/2019	#YHOO	1:30:00 PM					N/A
6/10/2019	#YHOO	3:30:00 PM					N/A
6/10/2019	#ZNGA	9:30:00 AM					N/A
6/10/2019	#ZNGA	11:30:00 AM					N/A
6/10/2019	#ZNGA	1:30:00 PM					N/A
6/10/2019	#ZNGA	3:30:00 PM					N/A
6/10/2019	AUDCAD	9:30:00 AM	0.92391	0.92455			N/A
6/10/2019	AUDCAD	11:30:00 AM	0.92398	0.92462			N/A
6/10/2019	AUDCAD	1:30:00 PM	0.92455	0.92525			N/A
6/10/2019	AUDCAD	3:30:00 PM	0.92446	0.925			N/A
6/10/2019	AUDCAD.fx	9:30:00 AM	0.92424	0.9242			N/A
6/10/2019	AUDCAD.fx	11:30:00 AM	0.92431	0.92427			N/A
6/10/2019	AUDCAD.fx	1:30:00 PM	0.92489	0.92491			N/A
6/10/2019	AUDCAD.fx	3:30:00 PM	0.9248	0.92464			N/A
6/10/2019	AUDCHF	9:30:00 AM	0.68999	0.6907			N/A
6/10/2019	AUDCHF	11:30:00 AM	0.6897	0.69024			N/A

6/10/2019	AUDCHF	1:30:00 PM	0.69018	0.69087			N/A
6/10/2019	AUDCHF	3:30:00 PM	0.68987	0.69055			N/A
6/10/2019	AUDCHF.fx	9:30:00 AM	0.69034	0.69035			N/A
6/10/2019	AUDCHF.fx	11:30:00 AM	0.69004	0.6899			N/A
6/10/2019	AUDCHF.fx	1:30:00 PM	0.69053	0.69052			N/A
6/10/2019	AUDCHF.fx	3:30:00 PM	0.69022	0.6902			N/A
6/10/2019	AUDCZK	9:30:00 AM	15.753	15.769			N/A
6/10/2019	AUDCZK	11:30:00 AM	15.763	15.779			N/A
6/10/2019	AUDCZK	1:30:00 PM	15.766	15.782			N/A
6/10/2019	AUDCZK	3:30:00 PM	15.77	15.787			N/A
6/10/2019	AUDDKK	9:30:00 AM	4.5998	4.6045			N/A
6/10/2019	AUDDKK	11:30:00 AM	4.6022	4.6065			N/A
6/10/2019	AUDDKK	1:30:00 PM	4.6007	4.6056			N/A
6/10/2019	AUDDKK	3:30:00 PM	4.5996	4.6042			N/A
6/10/2019	AUDHKD	9:30:00 AM	5.4636	5.4674			N/A
6/10/2019	AUDHKD	11:30:00 AM	5.4603	5.4642			N/A
6/10/2019	AUDHKD	1:30:00 PM	5.4637	5.4671			N/A
6/10/2019	AUDHKD	3:30:00 PM	5.4594	5.4632			N/A
6/10/2019	AUDHUF	9:30:00 AM	197.05	197.26			N/A
6/10/2019	AUDHUF	11:30:00 AM	197.08	197.23			N/A
6/10/2019	AUDHUF	1:30:00 PM	197.14	197.38			N/A
6/10/2019	AUDHUF	3:30:00 PM	197.07	197.31			N/A
6/10/2019	AUDJPY	9:30:00 AM	75.674	75.745			N/A
6/10/2019	AUDJPY	11:30:00 AM	75.662	75.715			N/A
6/10/2019	AUDJPY	1:30:00 PM	75.647	75.714			N/A
6/10/2019	AUDJPY	3:30:00 PM	75.607	75.677			N/A
6/10/2019	AUDJPY.fx	9:30:00 AM	75.708	75.709			N/A
6/10/2019	AUDJPY.fx	11:30:00 AM	75.695	75.68			N/A
6/10/2019	AUDJPY.fx	1:30:00 PM	75.681	75.678			N/A
6/10/2019	AUDJPY.fx	3:30:00 PM	75.641	75.642			N/A
6/10/2019	AUDMXN	9:30:00 AM	13.3453	13.3475			N/A
6/10/2019	AUDMXN	11:30:00 AM	13.3651	13.3703			N/A
6/10/2019	AUDMXN	1:30:00 PM	13.3774	13.3831			N/A
6/10/2019	AUDMXN	3:30:00 PM	13.4002	13.4061			N/A

6/10/2019	AUDNOK	9:30:00 AM	6.0121	6.0172			N/A
6/10/2019	AUDNOK	11:30:00 AM	6.0264	6.0307			N/A
6/10/2019	AUDNOK	1:30:00 PM	6.0252	6.0304			N/A
6/10/2019	AUDNOK	3:30:00 PM	6.025	6.0303			N/A
6/10/2019	AUDNOK.fx	9:30:00 AM	6.0136	6.0155			N/A
6/10/2019	AUDNOK.fx	11:30:00 AM	6.0279	6.029			N/A
6/10/2019	AUDNOK.fx	1:30:00 PM	6.0269	6.0285			N/A
6/10/2019	AUDNOK.fx	3:30:00 PM	6.0268	6.0285			N/A
6/10/2019	AUDNZD	9:30:00 AM	1.05063	1.05146			N/A
6/10/2019	AUDNZD	11:30:00 AM	1.05196	1.05276			N/A
6/10/2019	AUDNZD	1:30:00 PM	1.05234	1.05325			N/A
6/10/2019	AUDNZD	3:30:00 PM	1.05183	1.05274			N/A
6/10/2019	AUDNZD.fx	9:30:00 AM	1.05108	1.05102			N/A
6/10/2019	AUDNZD.fx	11:30:00 AM	1.05239	1.0523			N/A
6/10/2019	AUDNZD.fx	1:30:00 PM	1.05278	1.05279			N/A
6/10/2019	AUDNZD.fx	3:30:00 PM	1.05227	1.05229			N/A
6/10/2019	AUDPLN	9:30:00 AM	2.6245	2.6277			N/A
6/10/2019	AUDPLN	11:30:00 AM	2.6264	2.6293			N/A
6/10/2019	AUDPLN	1:30:00 PM	2.6262	2.6291			N/A
6/10/2019	AUDPLN	3:30:00 PM	2.6247	2.628			N/A
6/10/2019	AUDSEK	9:30:00 AM	6.5553	6.5584			N/A
6/10/2019	AUDSEK	11:30:00 AM	6.5709	6.5732			N/A
6/10/2019	AUDSEK	1:30:00 PM	6.5665	6.5686			N/A
6/10/2019	AUDSEK	3:30:00 PM	6.5582	6.5611			N/A
6/10/2019	AUDSEK.fx	9:30:00 AM	6.5508	6.5629			N/A
6/10/2019	AUDSEK.fx	11:30:00 AM	6.5663	6.5776			N/A
6/10/2019	AUDSEK.fx	1:30:00 PM	6.562	6.573			N/A
6/10/2019	AUDSEK.fx	3:30:00 PM	6.5535	6.5655			N/A
6/10/2019	AUDSGD	9:30:00 AM	0.9522	0.9524			N/A
6/10/2019	AUDSGD	11:30:00 AM	0.9522	0.9525			N/A
6/10/2019	AUDSGD	1:30:00 PM	0.9526	0.9529			N/A
6/10/2019	AUDSGD	3:30:00 PM	0.9521	0.9524			N/A
6/10/2019	AUDSGD.fx	9:30:00 AM	0.95225	0.95235			N/A
6/10/2019	AUDSGD.fx	11:30:00 AM	0.95231	0.95238			N/A

6/10/2019	AUDSGD.fx	1:30:00 PM	0.95272	0.95278			N/A
6/10/2019	AUDSGD.fx	3:30:00 PM	0.95216	0.9523			N/A
6/10/2019	AUDUSD	9:30:00 AM	0.69692	0.69701			N/A
6/10/2019	AUDUSD	11:30:00 AM	0.6967	0.69674			N/A
6/10/2019	AUDUSD	1:30:00 PM	0.69701	0.69708			N/A
6/10/2019	AUDUSD	3:30:00 PM	0.69652	0.69667			N/A
6/10/2019	AUDUSD.fx	9:30:00 AM	0.69697	0.69695			N/A
6/10/2019	AUDUSD.fx	11:30:00 AM	0.69674	0.69669			N/A
6/10/2019	AUDUSD.fx	1:30:00 PM	0.69707	0.69702			N/A
6/10/2019	AUDUSD.fx	3:30:00 PM	0.69658	0.69661			N/A
6/10/2019	AUDZAR	9:30:00 AM	10.3711	10.3794			N/A
6/10/2019	AUDZAR	11:30:00 AM	10.3471	10.3551			N/A
6/10/2019	AUDZAR	1:30:00 PM	10.3613	10.3741			N/A
6/10/2019	AUDZAR	3:30:00 PM	10.3438	10.3595			N/A
6/10/2019	AUS200.i	9:30:00 AM					N/A
6/10/2019	AUS200.i	11:30:00 AM	6508.69	6504.79			N/A
6/10/2019	AUS200.i	1:30:00 PM	6499.99	6503.59			N/A
6/10/2019	AUS200.i	3:30:00 PM	6501.19	6504.69			N/A
6/10/2019	BCHUSD	9:30:00 AM	398.01	399.32			N/A
6/10/2019	BCHUSD	11:30:00 AM	396.31	397.74			N/A
6/10/2019	BCHUSD	1:30:00 PM	387.63	388.99			N/A
6/10/2019	BCHUSD	3:30:00 PM	404.89	406.69			N/A
6/10/2019	CADCHF	9:30:00 AM	0.74659	0.74729			N/A
6/10/2019	CADCHF	11:30:00 AM	0.74626	0.74668			N/A
6/10/2019	CADCHF	1:30:00 PM	0.74622	0.74692			N/A
6/10/2019	CADCHF	3:30:00 PM	0.74612	0.74663			N/A
6/10/2019	CADCHF.fx	9:30:00 AM	0.74693	0.74695			N/A
6/10/2019	CADCHF.fx	11:30:00 AM	0.7466	0.74633			N/A
6/10/2019	CADCHF.fx	1:30:00 PM	0.74656	0.74657			N/A
6/10/2019	CADCHF.fx	3:30:00 PM	0.74646	0.74628			N/A
6/10/2019	CADCZK	9:30:00 AM	17.048	17.064			N/A
6/10/2019	CADCZK	11:30:00 AM	17.059	17.073			N/A
6/10/2019	CADCZK	1:30:00 PM	17.05	17.065			N/A
6/10/2019	CADCZK	3:30:00 PM	17.059	17.072			N/A

6/10/2019	CADDDKK	9:30:00 AM					N/A
6/10/2019	CADDDKK	11:30:00 AM	4.98	4.984			N/A
6/10/2019	CADDDKK	1:30:00 PM	4.976	4.979			N/A
6/10/2019	CADDDKK	3:30:00 PM					N/A
6/10/2019	CADHKD	9:30:00 AM	5.9123	5.916			N/A
6/10/2019	CADHKD	11:30:00 AM	5.9094	5.9132			N/A
6/10/2019	CADHKD	1:30:00 PM	5.9083	5.9117			N/A
6/10/2019	CADHKD	3:30:00 PM	5.9058	5.9093			N/A
6/10/2019	CADHUF	9:30:00 AM	213.3	213.42			N/A
6/10/2019	CADHUF	11:30:00 AM	213.31	213.4			N/A
6/10/2019	CADHUF	1:30:00 PM	213.23	213.39			N/A
6/10/2019	CADHUF	3:30:00 PM	213.2	213.34			N/A
6/10/2019	CADJPY	9:30:00 AM	81.884	81.951			N/A
6/10/2019	CADJPY	11:30:00 AM	81.866	81.909			N/A
6/10/2019	CADJPY	1:30:00 PM	81.791	81.858			N/A
6/10/2019	CADJPY	3:30:00 PM	81.771	81.824			N/A
6/10/2019	CADJPY.fx	9:30:00 AM	81.917	81.916			N/A
6/10/2019	CADJPY.fx	11:30:00 AM	81.899	81.875			N/A
6/10/2019	CADJPY.fx	1:30:00 PM	81.825	81.823			N/A
6/10/2019	CADJPY.fx	3:30:00 PM	81.804	81.788			N/A
6/10/2019	CADMXN	9:30:00 AM	14.4424	14.4441			N/A
6/10/2019	CADMXN	11:30:00 AM	14.4612	14.471			N/A
6/10/2019	CADMXN	1:30:00 PM	14.4653	14.4724			N/A
6/10/2019	CADMXN	3:30:00 PM	14.4918	14.4984			N/A
6/10/2019	CADNOK	9:30:00 AM	6.5041	6.5086			N/A
6/10/2019	CADNOK	11:30:00 AM	6.5185	6.5218			N/A
6/10/2019	CADNOK	1:30:00 PM	6.514	6.5181			N/A
6/10/2019	CADNOK	3:30:00 PM	6.5153	6.5199			N/A
6/10/2019	CADPLN	9:30:00 AM	2.8403	2.8422			N/A
6/10/2019	CADPLN	11:30:00 AM	2.8412	2.8432			N/A
6/10/2019	CADPLN	1:30:00 PM	2.8396	2.8413			N/A
6/10/2019	CADPLN	3:30:00 PM	2.8394	2.8412			N/A
6/10/2019	CADSEK	9:30:00 AM	7.091	7.0948			N/A
6/10/2019	CADSEK	11:30:00 AM	7.1074	7.1104			N/A

6/10/2019	CADSEK	1:30:00 PM	7.0985	7.1005			N/A
6/10/2019	CADSEK	3:30:00 PM	7.0917	7.0939			N/A
6/10/2019	CADSGD	9:30:00 AM	1.0296	1.0299			N/A
6/10/2019	CADSGD	11:30:00 AM	1.0296	1.0299			N/A
6/10/2019	CADSGD	1:30:00 PM	1.0294	1.0296			N/A
6/10/2019	CADSGD	3:30:00 PM	1.0291	1.0294			N/A
6/10/2019	CADZAR	9:30:00 AM	11.2231	11.2321			N/A
6/10/2019	CADZAR	11:30:00 AM	11.1959	11.2071			N/A
6/10/2019	CADZAR	1:30:00 PM	11.2048	11.2186			N/A
6/10/2019	CADZAR	3:30:00 PM	11.1888	11.2046			N/A
6/10/2019	CHFCZK	9:30:00 AM	22.829	22.843			N/A
6/10/2019	CHFCZK	11:30:00 AM	22.857	22.869			N/A
6/10/2019	CHFCZK	1:30:00 PM	22.841	22.856			N/A
6/10/2019	CHFCZK	3:30:00 PM	22.858	22.874			N/A
6/10/2019	CHFDKK	9:30:00 AM	6.665	6.668			N/A
6/10/2019	CHFDKK	11:30:00 AM	6.672	6.675			N/A
6/10/2019	CHFDKK	1:30:00 PM	6.664	6.668			N/A
6/10/2019	CHFDKK	3:30:00 PM	6.666	6.669			N/A
6/10/2019	CHFDKK.fx	9:30:00 AM	6.6633	6.6697			N/A
6/10/2019	CHFDKK.fx	11:30:00 AM	6.6708	6.6758			N/A
6/10/2019	CHFDKK.fx	1:30:00 PM	6.6631	6.6693			N/A
6/10/2019	CHFDKK.fx	3:30:00 PM	6.6646	6.6703			N/A
6/10/2019	CHFHKD	9:30:00 AM	7.9165	7.9203			N/A
6/10/2019	CHFHKD	11:30:00 AM	7.9181	7.9193			N/A
6/10/2019	CHFHKD	1:30:00 PM	7.9149	7.9184			N/A
6/10/2019	CHFHKD	3:30:00 PM	7.9134	7.9164			N/A
6/10/2019	CHFHUF	9:30:00 AM	285.5	285.84			N/A
6/10/2019	CHFHUF	11:30:00 AM	285.72	285.92			N/A
6/10/2019	CHFHUF	1:30:00 PM	285.53	285.91			N/A
6/10/2019	CHFHUF	3:30:00 PM	285.55	285.94			N/A
6/10/2019	CHFJPY	9:30:00 AM	109.638	109.707			N/A
6/10/2019	CHFJPY	11:30:00 AM	109.667	109.734			N/A
6/10/2019	CHFJPY	1:30:00 PM	109.565	109.632			N/A
6/10/2019	CHFJPY	3:30:00 PM	109.569	109.622			N/A

6/10/2019	CHFJPY.fx	9:30:00 AM	109.671	109.672			N/A
6/10/2019	CHFJPY.fx	11:30:00 AM	109.7	109.7			N/A
6/10/2019	CHFJPY.fx	1:30:00 PM	109.599	109.597			N/A
6/10/2019	CHFJPY.fx	3:30:00 PM	109.604	109.587			N/A
6/10/2019	CHFMXN	9:30:00 AM	19.3359	19.3387			N/A
6/10/2019	CHFMXN	11:30:00 AM	19.3776	19.3831			N/A
6/10/2019	CHFMXN	1:30:00 PM	19.3764	19.3866			N/A
6/10/2019	CHFMXN	3:30:00 PM	19.4195	19.4277			N/A
6/10/2019	CHFNOK	9:30:00 AM	8.7084	8.7166			N/A
6/10/2019	CHFNOK	11:30:00 AM	8.7346	8.7397			N/A
6/10/2019	CHFNOK	1:30:00 PM	8.7252	8.733			N/A
6/10/2019	CHFNOK	3:30:00 PM	8.7296	8.7363			N/A
6/10/2019	CHFNOK.fx	9:30:00 AM	8.71204	8.7129			N/A
6/10/2019	CHFNOK.fx	11:30:00 AM	8.73812	8.73618			N/A
6/10/2019	CHFNOK.fx	1:30:00 PM	8.72879	8.72939			N/A
6/10/2019	CHFNOK.fx	3:30:00 PM	8.7332	8.73272			N/A
6/10/2019	CHFPLN	9:30:00 AM	3.8026	3.8057			N/A
6/10/2019	CHFPLN	11:30:00 AM	3.8074	3.8103			N/A
6/10/2019	CHFPLN	1:30:00 PM	3.8043	3.8066			N/A
6/10/2019	CHFPLN	3:30:00 PM	3.8037	3.8066			N/A
6/10/2019	CHFPLN.fx	9:30:00 AM	3.80014	3.80813			N/A
6/10/2019	CHFPLN.fx	11:30:00 AM	3.80492	3.81263			N/A
6/10/2019	CHFPLN.fx	1:30:00 PM	3.80204	3.80875			N/A
6/10/2019	CHFPLN.fx	3:30:00 PM	3.80144	3.80887			N/A
6/10/2019	CHFSEK	9:30:00 AM	9.4946	9.4994			N/A
6/10/2019	CHFSEK	11:30:00 AM	9.523	9.5251			N/A
6/10/2019	CHFSEK	1:30:00 PM	9.5086	9.5109			N/A
6/10/2019	CHFSEK	3:30:00 PM	9.5012	9.5048			N/A
6/10/2019	CHFSGD	9:30:00 AM	1.3793	1.3797			N/A
6/10/2019	CHFSGD	11:30:00 AM	1.3802	1.3804			N/A
6/10/2019	CHFSGD	1:30:00 PM	1.3796	1.3798			N/A
6/10/2019	CHFSGD	3:30:00 PM	1.3795	1.3798			N/A
6/10/2019	CHFSGD.fx	9:30:00 AM	1.37944	1.37948			N/A
6/10/2019	CHFSGD.fx	11:30:00 AM	1.38041	1.38022			N/A

6/10/2019	CHFSGD.fx	1:30:00 PM	1.37972	1.37984			N/A
6/10/2019	CHFSGD.fx	3:30:00 PM	1.37967	1.37964			N/A
6/10/2019	CHFZAR	9:30:00 AM	15.0303	15.0346			N/A
6/10/2019	CHFZAR	11:30:00 AM	15.0052	15.0068			N/A
6/10/2019	CHFZAR	1:30:00 PM	15.0122	15.0232			N/A
6/10/2019	CHFZAR	3:30:00 PM	14.9948	15.0091			N/A
6/10/2019	CZKJPY	9:30:00 AM					N/A
6/10/2019	CZKJPY	11:30:00 AM	4.798	4.801			N/A
6/10/2019	CZKJPY	1:30:00 PM					N/A
6/10/2019	CZKJPY	3:30:00 PM					N/A
6/10/2019	DAX30.i	9:30:00 AM	12112.04	12107.29			N/A
6/10/2019	DAX30.i	11:30:00 AM	12109.54	12095.29			N/A
6/10/2019	DAX30.i	1:30:00 PM	12067.54	12065.04			N/A
6/10/2019	DAX30.i	3:30:00 PM	12079.54	12079.04			N/A
6/10/2019	DJ30.i	9:30:00 AM					N/A
6/10/2019	DJ30.i	11:30:00 AM					N/A
6/10/2019	DJ30.i	1:30:00 PM					N/A
6/10/2019	DJ30.i	3:30:00 PM					N/A
6/10/2019	DKKJPY	9:30:00 AM					N/A
6/10/2019	DKKJPY	11:30:00 AM	16.44	16.46			N/A
6/10/2019	DKKJPY	1:30:00 PM					N/A
6/10/2019	DKKJPY	3:30:00 PM					N/A
6/10/2019	EURAUD	9:30:00 AM	1.62199	1.62235			N/A
6/10/2019	EURAUD	11:30:00 AM	1.62123	1.62151			N/A
6/10/2019	EURAUD	1:30:00 PM	1.6216	1.62199			N/A
6/10/2019	EURAUD	3:30:00 PM	1.62205	1.62249			N/A
6/10/2019	EURAUD.fx	9:30:00 AM	1.62219	1.62213			N/A
6/10/2019	EURAUD.fx	11:30:00 AM	1.62143	1.6213			N/A
6/10/2019	EURAUD.fx	1:30:00 PM	1.6218	1.62177			N/A
6/10/2019	EURAUD.fx	3:30:00 PM	1.62225	1.62227			N/A
6/10/2019	EURCAD	9:30:00 AM	1.49935	1.50019			N/A
6/10/2019	EURCAD	11:30:00 AM	1.49891	1.49947			N/A
6/10/2019	EURCAD	1:30:00 PM	1.50023	1.50097			N/A
6/10/2019	EURCAD	3:30:00 PM	1.50047	1.50098			N/A

6/10/2019	EURCAD.fx	9:30:00 AM	1.49976	1.49976			N/A
6/10/2019	EURCAD.fx	11:30:00 AM	1.49933	1.49906			N/A
6/10/2019	EURCAD.fx	1:30:00 PM	1.50062	1.50056			N/A
6/10/2019	EURCAD.fx	3:30:00 PM	1.50089	1.50056			N/A
6/10/2019	EURCHF	9:30:00 AM	1.1202	1.12031			N/A
6/10/2019	EURCHF	11:30:00 AM	1.11913	1.11909			N/A
6/10/2019	EURCHF	1:30:00 PM	1.12027	1.12039			N/A
6/10/2019	EURCHF	3:30:00 PM	1.1201	1.12015			N/A
6/10/2019	EURCHF.fx	9:30:00 AM	1.12026	1.12025			N/A
6/10/2019	EURCHF.fx	11:30:00 AM	1.11918	1.11903			N/A
6/10/2019	EURCHF.fx	1:30:00 PM	1.12033	1.12033			N/A
6/10/2019	EURCHF.fx	3:30:00 PM	1.12015	1.12008			N/A
6/10/2019	EURCZK	9:30:00 AM	25.559	25.596			N/A
6/10/2019	EURCZK	11:30:00 AM	25.563	25.601			N/A
6/10/2019	EURCZK	1:30:00 PM	25.574	25.613			N/A
6/10/2019	EURCZK	3:30:00 PM	25.589	25.628			N/A
6/10/2019	EURDKK	9:30:00 AM	7.4669	7.4682			N/A
6/10/2019	EURDKK	11:30:00 AM	7.4671	7.4681			N/A
6/10/2019	EURDKK	1:30:00 PM	7.4663	7.4675			N/A
6/10/2019	EURDKK	3:30:00 PM					N/A
6/10/2019	EURGBP	9:30:00 AM	0.88989	0.89			N/A
6/10/2019	EURGBP	11:30:00 AM	0.88958	0.88864			N/A
6/10/2019	EURGBP	1:30:00 PM	0.89093	0.8909			N/A
6/10/2019	EURGBP	3:30:00 PM	0.8924	0.89236			N/A
6/10/2019	EURGBP.fx	9:30:00 AM	0.88993	0.88995			N/A
6/10/2019	EURGBP.fx	11:30:00 AM	0.8896	0.88863			N/A
6/10/2019	EURGBP.fx	1:30:00 PM	0.89097	0.89084			N/A
6/10/2019	EURGBP.fx	3:30:00 PM	0.89244	0.89231			N/A
6/10/2019	EURHKD	9:30:00 AM	8.8687	8.8735			N/A
6/10/2019	EURHKD	11:30:00 AM	8.8605	8.8651			N/A
6/10/2019	EURHKD	1:30:00 PM	8.8669	8.872			N/A
6/10/2019	EURHKD	3:30:00 PM	8.864	8.8689			N/A
6/10/2019	EURHKD.fx	9:30:00 AM	8.87152	8.87069			N/A
6/10/2019	EURHKD.fx	11:30:00 AM	8.86335	8.86225			N/A

6/10/2019	EURHKD.fx	1:30:00 PM	8.8697	8.86909			N/A
6/10/2019	EURHKD.fx	3:30:00 PM	8.86683	8.86604			N/A
6/10/2019	EURHUF	9:30:00 AM	319.75	320.45			N/A
6/10/2019	EURHUF	11:30:00 AM	319.65	320.11			N/A
6/10/2019	EURHUF	1:30:00 PM	319.78	320.42			N/A
6/10/2019	EURHUF	3:30:00 PM	319.77	320.39			N/A
6/10/2019	EURHUF.fx	9:30:00 AM	319.956	320.2			N/A
6/10/2019	EURHUF.fx	11:30:00 AM	319.93	320.11			N/A
6/10/2019	EURHUF.fx	1:30:00 PM	320.091	320.256			N/A
6/10/2019	EURHUF.fx	3:30:00 PM	320.071	320.241			N/A
6/10/2019	EURJPY	9:30:00 AM	122.858	122.86			N/A
6/10/2019	EURJPY	11:30:00 AM	122.767	122.761			N/A
6/10/2019	EURJPY	1:30:00 PM	122.781	122.786			N/A
6/10/2019	EURJPY	3:30:00 PM	122.759	122.76			N/A
6/10/2019	EURJPY.fx	9:30:00 AM	122.861	122.856			N/A
6/10/2019	EURJPY.fx	11:30:00 AM	122.768	122.758			N/A
6/10/2019	EURJPY.fx	1:30:00 PM	122.784	122.781			N/A
6/10/2019	EURJPY.fx	3:30:00 PM	122.761	122.755			N/A
6/10/2019	EURMXN	9:30:00 AM	21.6639	21.6683			N/A
6/10/2019	EURMXN	11:30:00 AM	21.6855	21.6995			N/A
6/10/2019	EURMXN	1:30:00 PM	21.7116	21.7211			N/A
6/10/2019	EURMXN	3:30:00 PM	21.7539	21.7652			N/A
6/10/2019	EURMXN.fx	9:30:00 AM	21.6716	21.6598			N/A
6/10/2019	EURMXN.fx	11:30:00 AM	21.6942	21.6914			N/A
6/10/2019	EURMXN.fx	1:30:00 PM	21.72	21.7127			N/A
6/10/2019	EURMXN.fx	3:30:00 PM	21.7631	21.7562			N/A
6/10/2019	EURNOK	9:30:00 AM	9.7539	9.7665			N/A
6/10/2019	EURNOK	11:30:00 AM	9.773	9.7833			N/A
6/10/2019	EURNOK	1:30:00 PM	9.7732	9.7853			N/A
6/10/2019	EURNOK	3:30:00 PM	9.7761	9.7876			N/A
6/10/2019	EURNOK.fx	9:30:00 AM	9.75929	9.7611			N/A
6/10/2019	EURNOK.fx	11:30:00 AM	9.7785	9.77755			N/A
6/10/2019	EURNOK.fx	1:30:00 PM	9.77876	9.77961			N/A
6/10/2019	EURNOK.fx	3:30:00 PM	9.78153	9.78198			N/A

6/10/2019	EURNZD	9:30:00 AM	1.70524	1.70587			N/A
6/10/2019	EURNZD	11:30:00 AM	1.70659	1.70735			N/A
6/10/2019	EURNZD	1:30:00 PM	1.70763	1.7084			N/A
6/10/2019	EURNZD	3:30:00 PM	1.70729	1.70813			N/A
6/10/2019	EURNZD.fx	9:30:00 AM	1.70566	1.70544			N/A
6/10/2019	EURNZD.fx	11:30:00 AM	1.70699	1.70693			N/A
6/10/2019	EURNZD.fx	1:30:00 PM	1.70805	1.70795			N/A
6/10/2019	EURNZD.fx	3:30:00 PM	1.70772	1.7077			N/A
6/10/2019	EURPLN	9:30:00 AM	4.2598	4.2631			N/A
6/10/2019	EURPLN	11:30:00 AM	4.2608	4.264			N/A
6/10/2019	EURPLN	1:30:00 PM	4.262	4.2644			N/A
6/10/2019	EURPLN	3:30:00 PM	4.2607	4.2639			N/A
6/10/2019	EURPLN.fx	9:30:00 AM	4.25917	4.26391			N/A
6/10/2019	EURPLN.fx	11:30:00 AM	4.26022	4.26454			N/A
6/10/2019	EURPLN.fx	1:30:00 PM	4.26154	4.26487			N/A
6/10/2019	EURPLN.fx	3:30:00 PM	4.26007	4.26447			N/A
6/10/2019	EURRUB	9:30:00 AM					N/A
6/10/2019	EURRUB	11:30:00 AM	72.83	73.268			N/A
6/10/2019	EURRUB	1:30:00 PM	72.859	73.292			N/A
6/10/2019	EURRUB	3:30:00 PM	72.842	73.277			N/A
6/10/2019	EURSEK	9:30:00 AM	10.6378	10.6427			N/A
6/10/2019	EURSEK	11:30:00 AM	10.6581	10.6615			N/A
6/10/2019	EURSEK	1:30:00 PM	10.6537	10.6565			N/A
6/10/2019	EURSEK	3:30:00 PM	10.6435	10.6475			N/A
6/10/2019	EURSEK.fx	9:30:00 AM	10.63958	10.64065			N/A
6/10/2019	EURSEK.fx	11:30:00 AM	10.65976	10.6597			N/A
6/10/2019	EURSEK.fx	1:30:00 PM	10.65529	10.65482			N/A
6/10/2019	EURSEK.fx	3:30:00 PM	10.64516	10.64589			N/A
6/10/2019	EURSGD	9:30:00 AM	1.545	1.5458			N/A
6/10/2019	EURSGD	11:30:00 AM	1.5443	1.5452			N/A
6/10/2019	EURSGD	1:30:00 PM	1.5453	1.5458			N/A
6/10/2019	EURSGD	3:30:00 PM	1.545	1.5458			N/A
6/10/2019	EURSGD.fx	9:30:00 AM	1.54535	1.54535			N/A
6/10/2019	EURSGD.fx	11:30:00 AM	1.5447	1.54478			N/A

6/10/2019	EURSGD.fx	1:30:00 PM	1.54569	1.54578			N/A
6/10/2019	EURSGD.fx	3:30:00 PM	1.54536	1.54537			N/A
6/10/2019	EURUSD	9:30:00 AM	1.13083	1.13087			N/A
6/10/2019	EURUSD	11:30:00 AM	1.12992	1.12997			N/A
6/10/2019	EURUSD	1:30:00 PM	1.13072	1.1308			N/A
6/10/2019	EURUSD	3:30:00 PM	1.13031	1.13036			N/A
6/10/2019	EURUSD.fx	9:30:00 AM	1.13103	1.13096			N/A
6/10/2019	EURUSD.fx	11:30:00 AM	1.13012	1.13007			N/A
6/10/2019	EURUSD.fx	1:30:00 PM	1.13092	1.13089			N/A
6/10/2019	EURUSD.fx	3:30:00 PM	1.13051	1.13045			N/A
6/10/2019	EURZAR	9:30:00 AM	16.841	16.8484			N/A
6/10/2019	EURZAR	11:30:00 AM	16.7951	16.806			N/A
6/10/2019	EURZAR	1:30:00 PM	16.822	16.8366			N/A
6/10/2019	EURZAR	3:30:00 PM	16.7966	16.817			N/A
6/10/2019	EURZAR.fx	9:30:00 AM	16.83978	16.84979			N/A
6/10/2019	EURZAR.fx	11:30:00 AM	16.79445	16.80691			N/A
6/10/2019	EURZAR.fx	1:30:00 PM	16.82104	16.83739			N/A
6/10/2019	EURZAR.fx	3:30:00 PM	16.79635	16.81711			N/A
6/10/2019	GBPAUD	9:30:00 AM	1.82309	1.82378			N/A
6/10/2019	GBPAUD	11:30:00 AM	1.82492	1.82363			N/A
6/10/2019	GBPAUD	1:30:00 PM	1.82075	1.82129			N/A
6/10/2019	GBPAUD	3:30:00 PM	1.81832	1.81889			N/A
6/10/2019	GBPAUD.fx	9:30:00 AM	1.82348	1.82338			N/A
6/10/2019	GBPAUD.fx	11:30:00 AM	1.82524	1.82322			N/A
6/10/2019	GBPAUD.fx	1:30:00 PM	1.82115	1.82086			N/A
6/10/2019	GBPAUD.fx	3:30:00 PM	1.81872	1.81847			N/A
6/10/2019	GBPCAD	9:30:00 AM	1.68485	1.6857			N/A
6/10/2019	GBPCAD	11:30:00 AM	1.6867	1.6857			N/A
6/10/2019	GBPCAD	1:30:00 PM	1.68399	1.68453			N/A
6/10/2019	GBPCAD	3:30:00 PM	1.68153	1.68204			N/A
6/10/2019	GBPCAD.fx	9:30:00 AM	1.68525	1.6853			N/A
6/10/2019	GBPCAD.fx	11:30:00 AM	1.68704	1.68532			N/A
6/10/2019	GBPCAD.fx	1:30:00 PM	1.68438	1.68413			N/A
6/10/2019	GBPCAD.fx	3:30:00 PM	1.68193	1.68164			N/A

6/10/2019	GBPCHE	9:30:00 AM	1.25856	1.25903			N/A
6/10/2019	GBPCHE	11:30:00 AM	1.2594	1.25803			N/A
6/10/2019	GBPCHE	1:30:00 PM	1.25736	1.2576			N/A
6/10/2019	GBPCHE	3:30:00 PM	1.2551	1.25542			N/A
6/10/2019	GBPCHE.fx	9:30:00 AM	1.25876	1.25882			N/A
6/10/2019	GBPCHE.fx	11:30:00 AM	1.25952	1.25784			N/A
6/10/2019	GBPCHE.fx	1:30:00 PM	1.25757	1.25741			N/A
6/10/2019	GBPCHE.fx	3:30:00 PM	1.2553	1.25519			N/A
6/10/2019	GBPCZK	9:30:00 AM	28.729	28.751			N/A
6/10/2019	GBPCZK	11:30:00 AM	28.774	28.767			N/A
6/10/2019	GBPCZK	1:30:00 PM	28.717	28.735			N/A
6/10/2019	GBPCZK	3:30:00 PM	28.688	28.704			N/A
6/10/2019	GBPDKK	9:30:00 AM	8.387	8.398			N/A
6/10/2019	GBPDKK	11:30:00 AM	8.398	8.401			N/A
6/10/2019	GBPDKK	1:30:00 PM	8.377	8.388			N/A
6/10/2019	GBPDKK	3:30:00 PM	8.365	8.376			N/A
6/10/2019	GBPDKK.fx	9:30:00 AM	8.385	8.3987			N/A
6/10/2019	GBPDKK.fx	11:30:00 AM	8.3947	8.4012			N/A
6/10/2019	GBPDKK.fx	1:30:00 PM	8.3765	8.3886			N/A
6/10/2019	GBPDKK.fx	3:30:00 PM	8.3633	8.3749			N/A
6/10/2019	GBPHKD	9:30:00 AM	9.963	9.9689			N/A
6/10/2019	GBPHKD	11:30:00 AM	9.9677	9.9625			N/A
6/10/2019	GBPHKD	1:30:00 PM	9.9514	9.9551			N/A
6/10/2019	GBPHKD	3:30:00 PM	9.9311	9.9351			N/A
6/10/2019	GBPHUF	9:30:00 AM	359.31	359.74			N/A
6/10/2019	GBPHUF	11:30:00 AM	359.55	359.8			N/A
6/10/2019	GBPHUF	1:30:00 PM	359.01	359.44			N/A
6/10/2019	GBPHUF	3:30:00 PM	358.4	358.83			N/A
6/10/2019	GBPJPY	9:30:00 AM	138.036	138.071			N/A
6/10/2019	GBPJPY	11:30:00 AM	138.148	138.002			N/A
6/10/2019	GBPJPY	1:30:00 PM	137.799	137.831			N/A
6/10/2019	GBPJPY	3:30:00 PM	137.55	137.568			N/A
6/10/2019	GBPJPY.fx	9:30:00 AM	138.055	138.052			N/A
6/10/2019	GBPJPY.fx	11:30:00 AM	138.164	137.983			N/A

6/10/2019	GBPJPY.fx	1:30:00 PM	137.818	137.811			N/A
6/10/2019	GBPJPY.fx	3:30:00 PM	137.569	137.548			N/A
6/10/2019	GBPMXN	9:30:00 AM	24.3389	24.3375			N/A
6/10/2019	GBPMXN	11:30:00 AM	24.3881	24.3837			N/A
6/10/2019	GBPMXN	1:30:00 PM	24.3622	24.369			N/A
6/10/2019	GBPMXN	3:30:00 PM	24.3736	24.377			N/A
6/10/2019	GBPNOK	9:30:00 AM	10.9614	10.9733			N/A
6/10/2019	GBPNOK	11:30:00 AM	10.9979	10.9976			N/A
6/10/2019	GBPNOK	1:30:00 PM	10.9719	10.9818			N/A
6/10/2019	GBPNOK	3:30:00 PM	10.9567	10.9667			N/A
6/10/2019	GBPNOK.fx	9:30:00 AM	10.96638	10.96827			N/A
6/10/2019	GBPNOK.fx	11:30:00 AM	11.00172	10.99264			N/A
6/10/2019	GBPNOK.fx	1:30:00 PM	10.97705	10.97669			N/A
6/10/2019	GBPNOK.fx	3:30:00 PM	10.96167	10.96171			N/A
6/10/2019	GBPNZD	9:30:00 AM	1.91624	1.91672			N/A
6/10/2019	GBPNZD	11:30:00 AM	1.92045	1.91913			N/A
6/10/2019	GBPNZD	1:30:00 PM	1.91696	1.9174			N/A
6/10/2019	GBPNZD	3:30:00 PM	1.91341	1.91393			N/A
6/10/2019	GBPNZD.fx	9:30:00 AM	1.91659	1.91635			N/A
6/10/2019	GBPNZD.fx	11:30:00 AM	1.92076	1.91877			N/A
6/10/2019	GBPNZD.fx	1:30:00 PM	1.91733	1.917			N/A
6/10/2019	GBPNZD.fx	3:30:00 PM	1.91375	1.91357			N/A
6/10/2019	GBPPLN	9:30:00 AM	4.7876	4.7896			N/A
6/10/2019	GBPPLN	11:30:00 AM	4.7961	4.7921			N/A
6/10/2019	GBPPLN	1:30:00 PM	4.7842	4.7855			N/A
6/10/2019	GBPPLN	3:30:00 PM	4.7757	4.777			N/A
6/10/2019	GBPPLN.fx	9:30:00 AM	4.78521	4.79192			N/A
6/10/2019	GBPPLN.fx	11:30:00 AM	4.79346	4.79431			N/A
6/10/2019	GBPPLN.fx	1:30:00 PM	4.78215	4.78736			N/A
6/10/2019	GBPPLN.fx	3:30:00 PM	4.77348	4.7791			N/A
6/10/2019	GBPSEK	9:30:00 AM	11.9513	11.9608			N/A
6/10/2019	GBPSEK	11:30:00 AM	11.9903	11.9866			N/A
6/10/2019	GBPSEK	1:30:00 PM	11.9559	11.9624			N/A
6/10/2019	GBPSEK	3:30:00 PM	11.9259	11.9341			N/A

6/10/2019	GBPSEK.fx	9:30:00 AM	11.94748	11.96447			N/A
6/10/2019	GBPSEK.fx	11:30:00 AM	11.98554	11.99035			N/A
6/10/2019	GBPSEK.fx	1:30:00 PM	11.95254	11.96583			N/A
6/10/2019	GBPSEK.fx	3:30:00 PM	11.92218	11.93767			N/A
6/10/2019	GBPSGD	9:30:00 AM	1.7361	1.7368			N/A
6/10/2019	GBPSGD	11:30:00 AM	1.7376	1.7368			N/A
6/10/2019	GBPSGD	1:30:00 PM	1.7346	1.7353			N/A
6/10/2019	GBPSGD	3:30:00 PM	1.7315	1.732			N/A
6/10/2019	GBPSGD.fx	9:30:00 AM	1.73428	1.73864			N/A
6/10/2019	GBPSGD.fx	11:30:00 AM	1.73542	1.73856			N/A
6/10/2019	GBPSGD.fx	1:30:00 PM	1.7329	1.73709			N/A
6/10/2019	GBPSGD.fx	3:30:00 PM	1.72957	1.7338			N/A
6/10/2019	GBPUSD	9:30:00 AM	1.27085	1.27087			N/A
6/10/2019	GBPUSD	11:30:00 AM	1.27183	1.27025	54000	54000	N/A
6/10/2019	GBPUSD	1:30:00 PM	1.26943	1.26927			N/A
6/10/2019	GBPUSD	3:30:00 PM	1.26685	1.26673			N/A
6/10/2019	GBPUSD.fx	9:30:00 AM	1.2709	1.27081			N/A
6/10/2019	GBPUSD.fx	11:30:00 AM	1.27185	1.2702			N/A
6/10/2019	GBPUSD.fx	1:30:00 PM	1.26949	1.26922			N/A
6/10/2019	GBPUSD.fx	3:30:00 PM	1.2669	1.26667			N/A
6/10/2019	GBPZAR	9:30:00 AM	18.92	18.9371			N/A
6/10/2019	GBPZAR	11:30:00 AM	18.8878	18.8946			N/A
6/10/2019	GBPZAR	1:30:00 PM	18.8765	18.9001			N/A
6/10/2019	GBPZAR	3:30:00 PM	18.8193	18.8469			N/A
6/10/2019	GBPZAR.fx	9:30:00 AM	18.9266	18.9319			N/A
6/10/2019	GBPZAR.fx	11:30:00 AM	18.8921	18.8878			N/A
6/10/2019	GBPZAR.fx	1:30:00 PM	18.8834	18.893			N/A
6/10/2019	GBPZAR.fx	3:30:00 PM	18.8271	18.8393			N/A
6/10/2019	GOLD	9:30:00 AM	1326.81	1326.72			N/A
6/10/2019	GOLD	11:30:00 AM	1326.74	1326.75			N/A
6/10/2019	GOLD	1:30:00 PM	1328.58	1328.35			N/A
6/10/2019	GOLD	3:30:00 PM	1327.64	1327.65			N/A
6/10/2019	HKDJPY	9:30:00 AM	13.85	13.86			N/A
6/10/2019	HKDJPY	11:30:00 AM	13.85	13.86			N/A

6/10/2019	HKDJPY	1:30:00 PM	13.84	13.85			N/A
6/10/2019	HKDJPY	3:30:00 PM	13.85	13.86			N/A
6/10/2019	HKDJPY.fx	9:30:00 AM	13.845	13.852			N/A
6/10/2019	HKDJPY.fx	11:30:00 AM	13.848	13.853			N/A
6/10/2019	HKDJPY.fx	1:30:00 PM	13.839	13.846			N/A
6/10/2019	HKDJPY.fx	3:30:00 PM	13.841	13.848			N/A
6/10/2019	HUFJPY	9:30:00 AM	0.384	0.3843			N/A
6/10/2019	HUFJPY	11:30:00 AM	0.3838	0.3841			N/A
6/10/2019	HUFJPY	1:30:00 PM	0.3837	0.384			N/A
6/10/2019	HUFJPY	3:30:00 PM	0.3837	0.384			N/A
6/10/2019	JP225.i	9:30:00 AM	21145.12	21157.62			N/A
6/10/2019	JP225.i	11:30:00 AM	21156.79	21152.62			N/A
6/10/2019	JP225.i	1:30:00 PM	21142.62	21157.62			N/A
6/10/2019	JP225.i	3:30:00 PM	21142.62	21160.12			N/A
6/10/2019	MXNJPY	9:30:00 AM	5.67	5.69			N/A
6/10/2019	MXNJPY	11:30:00 AM	5.66	5.67			N/A
6/10/2019	MXNJPY	1:30:00 PM	5.65	5.66			N/A
6/10/2019	MXNJPY	3:30:00 PM					N/A
6/10/2019	NASDAQ.i	9:30:00 AM					N/A
6/10/2019	NASDAQ.i	11:30:00 AM					N/A
6/10/2019	NASDAQ.i	1:30:00 PM					N/A
6/10/2019	NASDAQ.i	3:30:00 PM					N/A
6/10/2019	NOKJPY	9:30:00 AM	12.58	12.61			N/A
6/10/2019	NOKJPY	11:30:00 AM	12.55	12.57			N/A
6/10/2019	NOKJPY	1:30:00 PM	12.55	12.58			N/A
6/10/2019	NOKJPY	3:30:00 PM	12.54	12.57			N/A
6/10/2019	NOKJPY.fx	9:30:00 AM	12.584	12.592			N/A
6/10/2019	NOKJPY.fx	11:30:00 AM	12.554	12.557			N/A
6/10/2019	NOKJPY.fx	1:30:00 PM	12.552	12.559			N/A
6/10/2019	NOKJPY.fx	3:30:00 PM	12.546	12.552			N/A
6/10/2019	NZDCAD	9:30:00 AM	0.87905	0.87961			N/A
6/10/2019	NZDCAD	11:30:00 AM	0.87806	0.87855			N/A
6/10/2019	NZDCAD	1:30:00 PM	0.8782	0.87885			N/A
6/10/2019	NZDCAD	3:30:00 PM	0.87852	0.87905			N/A

6/10/2019	NZDCAD.fx	9:30:00 AM	0.87939	0.87928			N/A
6/10/2019	NZDCAD.fx	11:30:00 AM	0.87838	0.87821			N/A
6/10/2019	NZDCAD.fx	1:30:00 PM	0.87853	0.87851			N/A
6/10/2019	NZDCAD.fx	3:30:00 PM	0.87885	0.87871			N/A
6/10/2019	NZDCHF	9:30:00 AM	0.65648	0.65715			N/A
6/10/2019	NZDCHF	11:30:00 AM	0.65531	0.65591			N/A
6/10/2019	NZDCHF	1:30:00 PM	0.65557	0.65625			N/A
6/10/2019	NZDCHF	3:30:00 PM	0.65557	0.65625			N/A
6/10/2019	NZDCHF.fx	9:30:00 AM	0.65685	0.65679			N/A
6/10/2019	NZDCHF.fx	11:30:00 AM	0.65563	0.65557			N/A
6/10/2019	NZDCHF.fx	1:30:00 PM	0.65591	0.65589			N/A
6/10/2019	NZDCHF.fx	3:30:00 PM	0.65593	0.65589			N/A
6/10/2019	NZDCZK	9:30:00 AM	14.991	15			N/A
6/10/2019	NZDCZK	11:30:00 AM	14.981	14.992			N/A
6/10/2019	NZDCZK	1:30:00 PM	14.978	14.989			N/A
6/10/2019	NZDCZK	3:30:00 PM	14.989	15.001			N/A
6/10/2019	NZDDKK	9:30:00 AM	4.376	4.38			N/A
6/10/2019	NZDDKK	11:30:00 AM	4.372	4.375			N/A
6/10/2019	NZDDKK	1:30:00 PM					N/A
6/10/2019	NZDDKK	3:30:00 PM	4.371	4.375			N/A
6/10/2019	NZDHKD	9:30:00 AM	5.199	5.201			N/A
6/10/2019	NZDHKD	11:30:00 AM	5.1888	5.1911			N/A
6/10/2019	NZDHKD	1:30:00 PM	5.1898	5.1923			N/A
6/10/2019	NZDHKD	3:30:00 PM	5.1884	5.191			N/A
6/10/2019	NZDHUF	9:30:00 AM	187.47	187.71			N/A
6/10/2019	NZDHUF	11:30:00 AM	187.23	187.44			N/A
6/10/2019	NZDHUF	1:30:00 PM	187.22	187.5			N/A
6/10/2019	NZDHUF	3:30:00 PM	187.23	187.53			N/A
6/10/2019	NZDJPY	9:30:00 AM	72.001	72.066			N/A
6/10/2019	NZDJPY	11:30:00 AM	71.89	71.95			N/A
6/10/2019	NZDJPY	1:30:00 PM	71.853	71.92			N/A
6/10/2019	NZDJPY	3:30:00 PM	71.851	71.917			N/A
6/10/2019	NZDJPY.fx	9:30:00 AM	72.032	72.033			N/A
6/10/2019	NZDJPY.fx	11:30:00 AM	71.921	71.918			N/A

6/10/2019	NZDJPY.fx	1:30:00 PM	71.885	71.887			N/A
6/10/2019	NZDJPY.fx	3:30:00 PM	71.882	71.885			N/A
6/10/2019	NZDMXN	9:30:00 AM	12.6986	12.6973			N/A
6/10/2019	NZDMXN	11:30:00 AM	12.7018	12.7025			N/A
6/10/2019	NZDMXN	1:30:00 PM	12.7078	12.7094			N/A
6/10/2019	NZDMXN	3:30:00 PM	12.7357	12.7367			N/A
6/10/2019	NZDNOK	9:30:00 AM	5.7185	5.7223			N/A
6/10/2019	NZDNOK	11:30:00 AM	5.7244	5.7253			N/A
6/10/2019	NZDNOK	1:30:00 PM	5.7215	5.725			N/A
6/10/2019	NZDNOK	3:30:00 PM	5.7239	5.7278			N/A
6/10/2019	NZDPLN	9:30:00 AM	2.4976	2.4988			N/A
6/10/2019	NZDPLN	11:30:00 AM	2.495	2.4962			N/A
6/10/2019	NZDPLN	1:30:00 PM	2.4942	2.4954			N/A
6/10/2019	NZDPLN	3:30:00 PM	2.4941	2.4954			N/A
6/10/2019	NZDSEK	9:30:00 AM	6.2322	6.2391			N/A
6/10/2019	NZDSEK	11:30:00 AM	6.2389	6.245			N/A
6/10/2019	NZDSEK	1:30:00 PM	6.2332	6.2385			N/A
6/10/2019	NZDSEK	3:30:00 PM	6.2289	6.2347			N/A
6/10/2019	NZDSGD	9:30:00 AM	0.9058	0.9064			N/A
6/10/2019	NZDSGD	11:30:00 AM	0.9047	0.9053			N/A
6/10/2019	NZDSGD	1:30:00 PM	0.9047	0.9053			N/A
6/10/2019	NZDSGD	3:30:00 PM	0.9046	0.9053			N/A
6/10/2019	NZDSGD.fx	9:30:00 AM	0.9058	0.90631			N/A
6/10/2019	NZDSGD.fx	11:30:00 AM	0.90467	0.90522			N/A
6/10/2019	NZDSGD.fx	1:30:00 PM	0.90471	0.90527			N/A
6/10/2019	NZDSGD.fx	3:30:00 PM	0.90462	0.90521			N/A
6/10/2019	NZDUSD	9:30:00 AM	0.66307	0.66307			N/A
6/10/2019	NZDUSD	11:30:00 AM	0.66194	0.66203			N/A
6/10/2019	NZDUSD	1:30:00 PM	0.66203	0.6621			N/A
6/10/2019	NZDUSD	3:30:00 PM	0.66188	0.662			N/A
6/10/2019	NZDUSD.fx	9:30:00 AM	0.66314	0.66309			N/A
6/10/2019	NZDUSD.fx	11:30:00 AM	0.66201	0.66205			N/A
6/10/2019	NZDUSD.fx	1:30:00 PM	0.66211	0.66211			N/A
6/10/2019	NZDUSD.fx	3:30:00 PM	0.66195	0.66202			N/A

6/10/2019	NZDZAR	9:30:00 AM	9.8658	9.8775			N/A
6/10/2019	NZDZAR	11:30:00 AM	9.8297	9.8397			N/A
6/10/2019	NZDZAR	1:30:00 PM	9.8401	9.8544			N/A
6/10/2019	NZDZAR	3:30:00 PM	9.828	9.8453			N/A
6/10/2019	SEKJPY	9:30:00 AM	11.55	11.56			N/A
6/10/2019	SEKJPY	11:30:00 AM	11.52	11.53			N/A
6/10/2019	SEKJPY	1:30:00 PM	11.52	11.53			N/A
6/10/2019	SEKJPY	3:30:00 PM					N/A
6/10/2019	SEKJPY.fx	9:30:00 AM	11.537	11.556			N/A
6/10/2019	SEKJPY.fx	11:30:00 AM	11.508	11.524			N/A
6/10/2019	SEKJPY.fx	1:30:00 PM	11.515	11.532			N/A
6/10/2019	SEKJPY.fx	3:30:00 PM	11.522	11.54			N/A
6/10/2019	SGDJPY	9:30:00 AM	79.49	79.5			N/A
6/10/2019	SGDJPY	11:30:00 AM	79.5	79.46			N/A
6/10/2019	SGDJPY	1:30:00 PM	79.4	79.43			N/A
6/10/2019	SGDJPY	3:30:00 PM	79.44	79.44			N/A
6/10/2019	SILVER	9:30:00 AM	14.57	14.95			N/A
6/10/2019	SILVER	11:30:00 AM	14.55	14.93			N/A
6/10/2019	SILVER	1:30:00 PM	14.55	14.92			N/A
6/10/2019	SILVER	3:30:00 PM	14.56	14.92			N/A
6/10/2019	SPX500.i	9:30:00 AM	2884.19	2884.71			N/A
6/10/2019	SPX500.i	11:30:00 AM	2883.66	2882.71			N/A
6/10/2019	SPX500.i	1:30:00 PM	2884.66	2885.46			N/A
6/10/2019	SPX500.i	3:30:00 PM	2887.16	2888.05			N/A
6/10/2019	UK100.i	9:30:00 AM	7371.85	7372.02			N/A
6/10/2019	UK100.i	11:30:00 AM	7368.68	7361.68			N/A
6/10/2019	UK100.i	1:30:00 PM	7369.52	7369.43			N/A
6/10/2019	UK100.i	3:30:00 PM	7371.93	7373.43			N/A
6/10/2019	USDCAD	9:30:00 AM	1.32605	1.32617			N/A
6/10/2019	USDCAD	11:30:00 AM	1.32674	1.32656			N/A
6/10/2019	USDCAD	1:30:00 PM	1.32694	1.32696			N/A
6/10/2019	USDCAD	3:30:00 PM	1.32762	1.32747			N/A
6/10/2019	USDCAD.fx	9:30:00 AM	1.32608	1.32613			N/A
6/10/2019	USDCAD.fx	11:30:00 AM	1.32676	1.32654			N/A

6/10/2019	USDCAD.fx	1:30:00 PM	1.32698	1.32691			N/A
6/10/2019	USDCAD.fx	3:30:00 PM	1.32761	1.32743			N/A
6/10/2019	USDCHE	9:30:00 AM	0.99047	0.99054			N/A
6/10/2019	USDCHE	11:30:00 AM	0.99029	0.99022			N/A
6/10/2019	USDCHE	1:30:00 PM	0.99056	0.99068			N/A
6/10/2019	USDCHE	3:30:00 PM	0.99082	0.99082			N/A
6/10/2019	USDCHE.fx	9:30:00 AM	0.99053	0.99047			N/A
6/10/2019	USDCHE.fx	11:30:00 AM	0.99034	0.99016			N/A
6/10/2019	USDCHE.fx	1:30:00 PM	0.99061	0.99062			N/A
6/10/2019	USDCHE.fx	3:30:00 PM	0.99087	0.99076			N/A
6/10/2019	USDCZK	9:30:00 AM	22.627	22.648			N/A
6/10/2019	USDCZK	11:30:00 AM	22.648	22.67			N/A
6/10/2019	USDCZK	1:30:00 PM	22.641	22.662			N/A
6/10/2019	USDCZK	3:30:00 PM	22.661	22.684			N/A
6/10/2019	USDCZK.fx	9:30:00 AM	22.6342	22.641			N/A
6/10/2019	USDCZK.fx	11:30:00 AM	22.6569	22.6602			N/A
6/10/2019	USDCZK.fx	1:30:00 PM	22.6495	22.654			N/A
6/10/2019	USDCZK.fx	3:30:00 PM	22.6699	22.675			N/A
6/10/2019	USDDKK	9:30:00 AM	6.6022	6.6059			N/A
6/10/2019	USDDKK	11:30:00 AM	6.6073	6.6113			N/A
6/10/2019	USDDKK	1:30:00 PM	6.6026	6.6065			N/A
6/10/2019	USDDKK	3:30:00 PM	6.6051	6.6089			N/A
6/10/2019	USDDKK.fx	9:30:00 AM	6.60257	6.6038			N/A
6/10/2019	USDDKK.fx	11:30:00 AM	6.60786	6.60898			N/A
6/10/2019	USDDKK.fx	1:30:00 PM	6.60307	6.60442			N/A
6/10/2019	USDDKK.fx	3:30:00 PM	6.60572	6.60691			N/A
6/10/2019	USDHKD	9:30:00 AM	7.8432	7.8436			N/A
6/10/2019	USDHKD	11:30:00 AM	7.8424	7.8423			N/A
6/10/2019	USDHKD	1:30:00 PM	7.8425	7.8428			N/A
6/10/2019	USDHKD	3:30:00 PM	7.8428	7.8431			N/A
6/10/2019	USDHKD.fx	9:30:00 AM					N/A
6/10/2019	USDHKD.fx	11:30:00 AM	7.84233	7.84279			N/A
6/10/2019	USDHKD.fx	1:30:00 PM	7.84244	7.84301			N/A
6/10/2019	USDHKD.fx	3:30:00 PM	7.84279	7.84333			N/A

6/10/2019	USDHUF	9:30:00 AM	282.81	283.26			N/A
6/10/2019	USDHUF	11:30:00 AM	282.96	283.42			N/A
6/10/2019	USDHUF	1:30:00 PM	282.89	283.35			N/A
6/10/2019	USDHUF	3:30:00 PM	282.98	283.45			N/A
6/10/2019	USDHUF.fx	9:30:00 AM	282.976	283.095			N/A
6/10/2019	USDHUF.fx	11:30:00 AM	283.155	283.217			N/A
6/10/2019	USDHUF.fx	1:30:00 PM	283.091	283.135			N/A
6/10/2019	USDHUF.fx	3:30:00 PM	283.177	283.245			N/A
6/10/2019	USDINR	9:30:00 AM	64.45	74.44			N/A
6/10/2019	USDINR	11:30:00 AM	64.53	74.53			N/A
6/10/2019	USDINR	1:30:00 PM					N/A
6/10/2019	USDINR	3:30:00 PM					N/A
6/10/2019	USDJPY	9:30:00 AM	108.626	108.632			N/A
6/10/2019	USDJPY	11:30:00 AM	108.632	108.624			N/A
6/10/2019	USDJPY	1:30:00 PM	108.565	108.576			N/A
6/10/2019	USDJPY	3:30:00 PM	108.582	108.593			N/A
6/10/2019	USDJPY.fx	9:30:00 AM	108.633	108.625			N/A
6/10/2019	USDJPY.fx	11:30:00 AM	108.638	108.618			N/A
6/10/2019	USDJPY.fx	1:30:00 PM	108.571	108.568			N/A
6/10/2019	USDJPY.fx	3:30:00 PM	108.589	108.585			N/A
6/10/2019	USDMXN	9:30:00 AM	19.16	19.154			N/A
6/10/2019	USDMXN	11:30:00 AM	19.195	19.197			N/A
6/10/2019	USDMXN	1:30:00 PM	19.203	19.203			N/A
6/10/2019	USDMXN	3:30:00 PM	19.247	19.248			N/A
6/10/2019	USDMXN.f	9:30:00 AM					N/A
6/10/2019	USDMXN.f	11:30:00 AM					N/A
6/10/2019	USDMXN.f	1:30:00 PM					N/A
6/10/2019	USDMXN.f	3:30:00 PM					N/A
6/10/2019	USDNOK	9:30:00 AM	8.6257	8.6338			N/A
6/10/2019	USDNOK	11:30:00 AM	8.6497	8.6564			N/A
6/10/2019	USDNOK	1:30:00 PM	8.6434	8.6518			N/A
6/10/2019	USDNOK	3:30:00 PM	8.6488	8.6573			N/A
6/10/2019	USDNOK.fx	9:30:00 AM	8.62953	8.62924			N/A
6/10/2019	USDNOK.fx	11:30:00 AM	8.65367	8.65168			N/A

6/10/2019	USDNOK.fx	1:30:00 PM	8.64746	8.6471			N/A
6/10/2019	USDNOK.fx	3:30:00 PM	8.65288	8.6528			N/A
6/10/2019	USDPLN	9:30:00 AM	3.7673	3.7688			N/A
6/10/2019	USDPLN	11:30:00 AM	3.7709	3.7723			N/A
6/10/2019	USDPLN	1:30:00 PM	3.7694	3.7702			N/A
6/10/2019	USDPLN	3:30:00 PM	3.7696	3.7711			N/A
6/10/2019	USDPLN.fx	9:30:00 AM	3.76636	3.76963			N/A
6/10/2019	USDPLN.fx	11:30:00 AM	3.77017	3.7731			N/A
6/10/2019	USDPLN.fx	1:30:00 PM	3.76867	3.77081			N/A
6/10/2019	USDPLN.fx	3:30:00 PM	3.76888	3.77182			N/A
6/10/2019	USDRUB	9:30:00 AM					N/A
6/10/2019	USDRUB	11:30:00 AM	64.561	64.947			N/A
6/10/2019	USDRUB	1:30:00 PM	64.542	64.924			N/A
6/10/2019	USDRUB	3:30:00 PM	64.543	64.934			N/A
6/10/2019	USDSEK	9:30:00 AM	9.4053	9.4097			N/A
6/10/2019	USDSEK	11:30:00 AM	9.4311	9.4339			N/A
6/10/2019	USDSEK	1:30:00 PM	9.4199	9.4226			N/A
6/10/2019	USDSEK	3:30:00 PM	9.4145	9.4182			N/A
6/10/2019	USDSEK.fx	9:30:00 AM	9.40801	9.40783			N/A
6/10/2019	USDSEK.fx	11:30:00 AM	9.43373	9.43201			N/A
6/10/2019	USDSEK.fx	1:30:00 PM	9.42251	9.42042			N/A
6/10/2019	USDSEK.fx	3:30:00 PM	9.41712	9.41625			N/A
6/10/2019	USDSGD	9:30:00 AM	1.3663	1.3666			N/A
6/10/2019	USDSGD	11:30:00 AM	1.3667	1.3671			N/A
6/10/2019	USDSGD	1:30:00 PM	1.3667	1.3669			N/A
6/10/2019	USDSGD	3:30:00 PM	1.3668	1.3669			N/A
6/10/2019	USDSGD.fx	9:30:00 AM	1.3662	1.36657			N/A
6/10/2019	USDSGD.fx	11:30:00 AM	1.36667	1.36714			N/A
6/10/2019	USDSGD.fx	1:30:00 PM	1.36663	1.36704			N/A
6/10/2019	USDSGD.fx	3:30:00 PM	1.36673	1.36723			N/A
6/10/2019	USDZAR	9:30:00 AM	14.8911	14.8978			N/A
6/10/2019	USDZAR	11:30:00 AM	14.8625	14.8717			N/A
6/10/2019	USDZAR	1:30:00 PM	14.8754	14.8877			N/A
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6/10/2019	USDZAR.fx	3:30:00 PM					N/A
6/10/2019	XAUUSD	9:30:00 AM	1326.81	1326.7			N/A
6/10/2019	XAUUSD	11:30:00 AM	1326.75	1326.75			N/A
6/10/2019	XAUUSD	1:30:00 PM	1328.58	1328.34			N/A
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6/10/2019	ZARJPY	3:30:00 PM	7.29	7.31			N/A
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6/11/2019	#Ripple	9:30:00 AM	0.3921	0.3964			N/A
6/11/2019	#Ripple	11:30:00 AM	0.3911	0.3951			N/A
6/11/2019	#Ripple	1:30:00 PM	0.3864	0.3899			N/A
6/11/2019	#Ripple	3:30:00 PM	0.3848	0.3895			N/A
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6/11/2019	#SNE	1:30:00 PM					N/A
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6/11/2019	#V	3:30:00 PM					N/A
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6/11/2019	#YHOO	3:30:00 PM					N/A
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6/11/2019	#ZNGA	1:30:00 PM					N/A
6/11/2019	#ZNGA	3:30:00 PM					N/A
6/11/2019	AUDCAD	9:30:00 AM	0.92178	0.9225			N/A
6/11/2019	AUDCAD	11:30:00 AM	0.92196	0.92257			N/A
6/11/2019	AUDCAD	1:30:00 PM	0.92202	0.9226			N/A
6/11/2019	AUDCAD	3:30:00 PM	0.92181	0.92229			N/A
6/11/2019	AUDCAD.fx	9:30:00 AM	0.9221	0.92215			N/A
6/11/2019	AUDCAD.fx	11:30:00 AM	0.92231	0.92223			N/A
6/11/2019	AUDCAD.fx	1:30:00 PM	0.92234	0.92226			N/A
6/11/2019	AUDCAD.fx	3:30:00 PM	0.92208	0.92193			N/A
6/11/2019	AUDCHF	9:30:00 AM	0.68834	0.68905			N/A
6/11/2019	AUDCHF	11:30:00 AM	0.68833	0.68896			N/A
6/11/2019	AUDCHF	1:30:00 PM	0.68955	0.69023			N/A
6/11/2019	AUDCHF	3:30:00 PM	0.68989	0.69054			N/A
6/11/2019	AUDCHF.fx	9:30:00 AM	0.68868	0.6887			N/A
6/11/2019	AUDCHF.fx	11:30:00 AM	0.68868	0.68862			N/A
6/11/2019	AUDCHF.fx	1:30:00 PM	0.68989	0.68988			N/A
6/11/2019	AUDCHF.fx	3:30:00 PM	0.69024	0.69019			N/A

6/11/2019	AUDCZK	9:30:00 AM	15.723	15.741			N/A
6/11/2019	AUDCZK	11:30:00 AM	15.738	15.753			N/A
6/11/2019	AUDCZK	1:30:00 PM	15.743	15.758			N/A
6/11/2019	AUDCZK	3:30:00 PM	15.736	15.75			N/A
6/11/2019	AUDDKK	9:30:00 AM	4.5869	4.5917			N/A
6/11/2019	AUDDKK	11:30:00 AM	4.5873	4.5918			N/A
6/11/2019	AUDDKK	1:30:00 PM	4.5878	4.5919			N/A
6/11/2019	AUDDKK	3:30:00 PM	4.5893	4.5927			N/A
6/11/2019	AUDHKD	9:30:00 AM	5.4469	5.4504			N/A
6/11/2019	AUDHKD	11:30:00 AM	5.4468	5.4496			N/A
6/11/2019	AUDHKD	1:30:00 PM	5.4492	5.4523			N/A
6/11/2019	AUDHKD	3:30:00 PM	5.444	5.4464			N/A
6/11/2019	AUDHUF	9:30:00 AM	196.49	196.67			N/A
6/11/2019	AUDHUF	11:30:00 AM	196.69	196.83			N/A
6/11/2019	AUDHUF	1:30:00 PM	196.92	197.13			N/A
6/11/2019	AUDHUF	3:30:00 PM	196.82	197.02			N/A
6/11/2019	AUDJPY	9:30:00 AM	75.519	75.58			N/A
6/11/2019	AUDJPY	11:30:00 AM	75.526	75.585			N/A
6/11/2019	AUDJPY	1:30:00 PM	75.605	75.668			N/A
6/11/2019	AUDJPY	3:30:00 PM	75.599	75.651			N/A
6/11/2019	AUDJPY.fx	9:30:00 AM	75.553	75.544			N/A
6/11/2019	AUDJPY.fx	11:30:00 AM	75.56	75.55			N/A
6/11/2019	AUDJPY.fx	1:30:00 PM	75.639	75.633			N/A
6/11/2019	AUDJPY.fx	3:30:00 PM	75.633	75.615			N/A
6/11/2019	AUDMXN	9:30:00 AM	13.3266	13.3323			N/A
6/11/2019	AUDMXN	11:30:00 AM	13.3271	13.3354			N/A
6/11/2019	AUDMXN	1:30:00 PM	13.3196	13.3261			N/A
6/11/2019	AUDMXN	3:30:00 PM	13.3219	13.3225			N/A
6/11/2019	AUDNOK	9:30:00 AM	6.0324	6.0374			N/A
6/11/2019	AUDNOK	11:30:00 AM	6.015	6.0197			N/A
6/11/2019	AUDNOK	1:30:00 PM	6.0102	6.0156			N/A
6/11/2019	AUDNOK	3:30:00 PM	6.0049	6.0086			N/A
6/11/2019	AUDNOK.f	9:30:00 AM	6.0339	6.0358			N/A
6/11/2019	AUDNOK.f	11:30:00 AM	6.0166	6.0179			N/A

6/11/2019	AUDNOK.fx	1:30:00 PM	6.0118	6.0138			N/A
6/11/2019	AUDNOK.fx	3:30:00 PM	6.0065	6.0076			N/A
6/11/2019	AUDNZD	9:30:00 AM	1.05391	1.05457			N/A
6/11/2019	AUDNZD	11:30:00 AM	1.05475	1.05564			N/A
6/11/2019	AUDNZD	1:30:00 PM	1.05607	1.05681			N/A
6/11/2019	AUDNZD	3:30:00 PM	1.05736	1.05817			N/A
6/11/2019	AUDNZD.fx	9:30:00 AM	1.05435	1.05411			N/A
6/11/2019	AUDNZD.fx	11:30:00 AM	1.05518	1.05519			N/A
6/11/2019	AUDNZD.fx	1:30:00 PM	1.0565	1.05636			N/A
6/11/2019	AUDNZD.fx	3:30:00 PM	1.0578	1.05771			N/A
6/11/2019	AUDPLN	9:30:00 AM	2.6171	2.6203			N/A
6/11/2019	AUDPLN	11:30:00 AM	2.6202	2.6232			N/A
6/11/2019	AUDPLN	1:30:00 PM	2.6211	2.6237			N/A
6/11/2019	AUDPLN	3:30:00 PM	2.6217	2.6243			N/A
6/11/2019	AUDSEK	9:30:00 AM	6.5472	6.5501			N/A
6/11/2019	AUDSEK	11:30:00 AM	6.5563	6.5594			N/A
6/11/2019	AUDSEK	1:30:00 PM	6.5673	6.5694			N/A
6/11/2019	AUDSEK	3:30:00 PM	6.5662	6.5678			N/A
6/11/2019	AUDSEK.fx	9:30:00 AM	6.5425	6.5546			N/A
6/11/2019	AUDSEK.fx	11:30:00 AM	6.5517	6.5638			N/A
6/11/2019	AUDSEK.fx	1:30:00 PM	6.5627	6.5738			N/A
6/11/2019	AUDSEK.fx	3:30:00 PM	6.5617	6.5729			N/A
6/11/2019	AUDSGD	9:30:00 AM	0.9492	0.9494			N/A
6/11/2019	AUDSGD	11:30:00 AM	0.9491	0.9494			N/A
6/11/2019	AUDSGD	1:30:00 PM	0.9494	0.9495			N/A
6/11/2019	AUDSGD	3:30:00 PM	0.9489	0.9488			N/A
6/11/2019	AUDSGD.fx	9:30:00 AM	0.94929	0.94937			N/A
6/11/2019	AUDSGD.fx	11:30:00 AM	0.94921	0.94929			N/A
6/11/2019	AUDSGD.fx	1:30:00 PM	0.94956	0.94956			N/A
6/11/2019	AUDSGD.fx	3:30:00 PM	0.94882	0.94874			N/A
6/11/2019	AUDUSD	9:30:00 AM	0.69525	0.69534			N/A
6/11/2019	AUDUSD	11:30:00 AM	0.6955	0.69553			N/A
6/11/2019	AUDUSD	1:30:00 PM	0.69581	0.6958			N/A
6/11/2019	AUDUSD	3:30:00 PM	0.69529	0.6951			N/A

6/11/2019	AUDUSD.fx	9:30:00 AM	0.69531	0.69528			N/A
6/11/2019	AUDUSD.fx	11:30:00 AM	0.69555	0.69548			N/A
6/11/2019	AUDUSD.fx	1:30:00 PM	0.69586	0.69575			N/A
6/11/2019	AUDUSD.fx	3:30:00 PM	0.69531	0.69505			N/A
6/11/2019	AUDZAR	9:30:00 AM	10.253	10.2659			N/A
6/11/2019	AUDZAR	11:30:00 AM	10.2438	10.2564			N/A
6/11/2019	AUDZAR	1:30:00 PM	10.2576	10.2703			N/A
6/11/2019	AUDZAR	3:30:00 PM	10.2626	10.2723			N/A
6/11/2019	AUS200.i	9:30:00 AM	6548.2	6550.7			N/A
6/11/2019	AUS200.i	11:30:00 AM	6555.43	6556.93			N/A
6/11/2019	AUS200.i	1:30:00 PM	6568.43	6571.63			N/A
6/11/2019	AUS200.i	3:30:00 PM	6571.93	6575.03			N/A
6/11/2019	BCHUSD	9:30:00 AM	398.77	400.01			N/A
6/11/2019	BCHUSD	11:30:00 AM	400.11	402.07			N/A
6/11/2019	BCHUSD	1:30:00 PM	394.2	395.29			N/A
6/11/2019	BCHUSD	3:30:00 PM	391.69	393.63			N/A
6/11/2019	CADCHF	9:30:00 AM	0.74649	0.74719			N/A
6/11/2019	CADCHF	11:30:00 AM	0.74637	0.74702			N/A
6/11/2019	CADCHF	1:30:00 PM	0.74764	0.74828			N/A
6/11/2019	CADCHF	3:30:00 PM	0.74832	0.74879			N/A
6/11/2019	CADCHF.fx	9:30:00 AM	0.74683	0.74684			N/A
6/11/2019	CADCHF.fx	11:30:00 AM	0.7467	0.74668			N/A
6/11/2019	CADCHF.fx	1:30:00 PM	0.74799	0.74793			N/A
6/11/2019	CADCHF.fx	3:30:00 PM	0.74866	0.74846			N/A
6/11/2019	CADCZK	9:30:00 AM	17.055	17.073			N/A
6/11/2019	CADCZK	11:30:00 AM	17.069	17.084			N/A
6/11/2019	CADCZK	1:30:00 PM	17.072	17.088			N/A
6/11/2019	CADCZK	3:30:00 PM	17.074	17.083			N/A
6/11/2019	CADDDKK	9:30:00 AM	4.976	4.98			N/A
6/11/2019	CADDDKK	11:30:00 AM	4.974	4.977			N/A
6/11/2019	CADDDKK	1:30:00 PM	4.976	4.979			N/A
6/11/2019	CADDDKK	3:30:00 PM	4.977	4.98			N/A
6/11/2019	CADHKD	9:30:00 AM	5.9079	5.9115			N/A
6/11/2019	CADHKD	11:30:00 AM	5.9066	5.9105			N/A

6/11/2019	CADHKD	1:30:00 PM	5.9088	5.9125			N/A
6/11/2019	CADHKD	3:30:00 PM	5.9061	5.9082			N/A
6/11/2019	CADHUF	9:30:00 AM	213.16	213.25			N/A
6/11/2019	CADHUF	11:30:00 AM	213.33	213.42			N/A
6/11/2019	CADHUF	1:30:00 PM	213.61	213.72			N/A
6/11/2019	CADHUF	3:30:00 PM	213.57	213.66			N/A
6/11/2019	CADJPY	9:30:00 AM	81.899	81.959			N/A
6/11/2019	CADJPY	11:30:00 AM	81.889	81.956			N/A
6/11/2019	CADJPY	1:30:00 PM	81.97	82.04			N/A
6/11/2019	CADJPY	3:30:00 PM	81.994	82.045			N/A
6/11/2019	CADJPY.fx	9:30:00 AM	81.933	81.924			N/A
6/11/2019	CADJPY.fx	11:30:00 AM	81.922	81.922			N/A
6/11/2019	CADJPY.fx	1:30:00 PM	82.003	82.004			N/A
6/11/2019	CADJPY.fx	3:30:00 PM	82.027	82.01			N/A
6/11/2019	CADMXN	9:30:00 AM	14.4537	14.461			N/A
6/11/2019	CADMXN	11:30:00 AM	14.4515	14.4634			N/A
6/11/2019	CADMXN	1:30:00 PM	14.4425	14.4535			N/A
6/11/2019	CADMXN	3:30:00 PM	14.4482	14.4547			N/A
6/11/2019	CADNOK	9:30:00 AM	6.5404	6.5452			N/A
6/11/2019	CADNOK	11:30:00 AM	6.5201	6.5239			N/A
6/11/2019	CADNOK	1:30:00 PM	6.5159	6.5195			N/A
6/11/2019	CADNOK	3:30:00 PM	6.5097	6.5117			N/A
6/11/2019	CADPLN	9:30:00 AM	2.8385	2.84			N/A
6/11/2019	CADPLN	11:30:00 AM	2.8408	2.8422			N/A
6/11/2019	CADPLN	1:30:00 PM	2.8424	2.8437			N/A
6/11/2019	CADPLN	3:30:00 PM	2.842	2.8435			N/A
6/11/2019	CADSEK	9:30:00 AM	7.0991	7.1022			N/A
6/11/2019	CADSEK	11:30:00 AM	7.1074	7.1113			N/A
6/11/2019	CADSEK	1:30:00 PM	7.1192	7.1221			N/A
6/11/2019	CADSEK	3:30:00 PM	7.1197	7.1166			N/A
6/11/2019	CADSGD	9:30:00 AM	1.0287	1.029			N/A
6/11/2019	CADSGD	11:30:00 AM					N/A
6/11/2019	CADSGD	1:30:00 PM	1.0288	1.0291			N/A
6/11/2019	CADSGD	3:30:00 PM	1.0286	1.0289			N/A

6/11/2019	CADZAR	9:30:00 AM	11.1212	11.135			N/A
6/11/2019	CADZAR	11:30:00 AM	11.1101	11.1238			N/A
6/11/2019	CADZAR	1:30:00 PM	11.1238	11.1367			N/A
6/11/2019	CADZAR	3:30:00 PM	11.1325	11.1435			N/A
6/11/2019	CHFCZK	9:30:00 AM	22.841	22.857			N/A
6/11/2019	CHFCZK	11:30:00 AM	22.863	22.878			N/A
6/11/2019	CHFCZK	1:30:00 PM	22.829	22.843			N/A
6/11/2019	CHFCZK	3:30:00 PM	22.811	22.824			N/A
6/11/2019	CHFDKK	9:30:00 AM	6.662	6.665			N/A
6/11/2019	CHFDKK	11:30:00 AM	6.663	6.666			N/A
6/11/2019	CHFDKK	1:30:00 PM	6.652	6.655			N/A
6/11/2019	CHFDKK	3:30:00 PM	6.651	6.653			N/A
6/11/2019	CHFDKK.fx	9:30:00 AM	6.6608	6.6668			N/A
6/11/2019	CHFDKK.fx	11:30:00 AM	6.6614	6.6669			N/A
6/11/2019	CHFDKK.fx	1:30:00 PM	6.6505	6.656			N/A
6/11/2019	CHFDKK.fx	3:30:00 PM	6.6491	6.6546			N/A
6/11/2019	CHFHKD	9:30:00 AM	7.9111	7.915			N/A
6/11/2019	CHFHKD	11:30:00 AM	7.9116	7.914			N/A
6/11/2019	CHFHKD	1:30:00 PM	7.9017	7.9037			N/A
6/11/2019	CHFHKD	3:30:00 PM	7.8917	7.8909			N/A
6/11/2019	CHFHUF	9:30:00 AM	285.35	285.62			N/A
6/11/2019	CHFHUF	11:30:00 AM	285.64	285.92			N/A
6/11/2019	CHFHUF	1:30:00 PM	285.48	285.82			N/A
6/11/2019	CHFHUF	3:30:00 PM	285.21	285.57			N/A
6/11/2019	CHFJPY	9:30:00 AM	109.668	109.728			N/A
6/11/2019	CHFJPY	11:30:00 AM	109.683	109.743			N/A
6/11/2019	CHFJPY	1:30:00 PM	109.612	109.663			N/A
6/11/2019	CHFJPY	3:30:00 PM	109.555	109.585			N/A
6/11/2019	CHFJPY.fx	9:30:00 AM	109.701	109.694			N/A
6/11/2019	CHFJPY.fx	11:30:00 AM	109.715	109.708			N/A
6/11/2019	CHFJPY.fx	1:30:00 PM	109.646	109.628			N/A
6/11/2019	CHFJPY.fx	3:30:00 PM	109.588	109.551			N/A
6/11/2019	CHFMXN	9:30:00 AM	19.354	19.3634			N/A
6/11/2019	CHFMXN	11:30:00 AM	19.3561	19.3699			N/A

6/11/2019	CHF MXN	1:30:00 PM	19.3106	19.323			N/A
6/11/2019	CHF MXN	3:30:00 PM	19.3061	19.3075			N/A
6/11/2019	CHF NOK	9:30:00 AM	8.7589	8.7664			N/A
6/11/2019	CHF NOK	11:30:00 AM	8.7347	8.7409			N/A
6/11/2019	CHF NOK	1:30:00 PM	8.7119	8.7192			N/A
6/11/2019	CHF NOK	3:30:00 PM	8.6993	8.7059			N/A
6/11/2019	CHF NOK.fx	9:30:00 AM	8.76239	8.76273			N/A
6/11/2019	CHF NOK.fx	11:30:00 AM	8.73805	8.73738			N/A
6/11/2019	CHF NOK.fx	1:30:00 PM	8.7154	8.71571			N/A
6/11/2019	CHF NOK.fx	3:30:00 PM	8.70278	8.70345			N/A
6/11/2019	CHF PLN	9:30:00 AM	3.801	3.8039			N/A
6/11/2019	CHF PLN	11:30:00 AM	3.8056	3.808			N/A
6/11/2019	CHF PLN	1:30:00 PM	3.8	3.8026			N/A
6/11/2019	CHF PLN	3:30:00 PM	3.7991	3.8018			N/A
6/11/2019	CHF PLN.fx	9:30:00 AM	3.79854	3.80633			N/A
6/11/2019	CHF PLN.fx	11:30:00 AM	3.80307	3.81015			N/A
6/11/2019	CHF PLN.fx	1:30:00 PM	3.79764	3.80475			N/A
6/11/2019	CHF PLN.fx	3:30:00 PM	3.79664	3.80411			N/A
6/11/2019	CHF SEK	9:30:00 AM	9.5062	9.51			N/A
6/11/2019	CHF SEK	11:30:00 AM	9.5187	9.5226			N/A
6/11/2019	CHF SEK	1:30:00 PM	9.5186	9.5222			N/A
6/11/2019	CHF SEK	3:30:00 PM	9.5114	9.5091			N/A
6/11/2019	CHF SGD	9:30:00 AM	1.3783	1.3786			N/A
6/11/2019	CHF SGD	11:30:00 AM	1.3783	1.3786			N/A
6/11/2019	CHF SGD	1:30:00 PM	1.3764	1.3766			N/A
6/11/2019	CHF SGD	3:30:00 PM	1.3747	1.3747			N/A
6/11/2019	CHF SGD.fx	9:30:00 AM	1.37844	1.37837			N/A
6/11/2019	CHF SGD.fx	11:30:00 AM	1.37842	1.37837			N/A
6/11/2019	CHF SGD.fx	1:30:00 PM	1.3765	1.37637			N/A
6/11/2019	CHF SGD.fx	3:30:00 PM	1.37483	1.37447			N/A
6/11/2019	CHF ZAR	9:30:00 AM	14.8953	14.9061			N/A
6/11/2019	CHF ZAR	11:30:00 AM	14.8839	14.8933			N/A
6/11/2019	CHF ZAR	1:30:00 PM	14.8756	14.8861			N/A
6/11/2019	CHF ZAR	3:30:00 PM	14.8776	14.8822			N/A

6/11/2019	CZKJPY	9:30:00 AM					N/A
6/11/2019	CZKJPY	11:30:00 AM	4.797	4.801			N/A
6/11/2019	CZKJPY	1:30:00 PM	4.801	4.804			N/A
6/11/2019	CZKJPY	3:30:00 PM	4.801	4.805			N/A
6/11/2019	DAX30.i	9:30:00 AM	12136.95	12135.45			N/A
6/11/2019	DAX30.i	11:30:00 AM	12181.2	12172.95			N/A
6/11/2019	DAX30.i	1:30:00 PM	12199.2	12196.95			N/A
6/11/2019	DAX30.i	3:30:00 PM	12207.2	12204.45			N/A
6/11/2019	DJ30.i	9:30:00 AM					N/A
6/11/2019	DJ30.i	11:30:00 AM					N/A
6/11/2019	DJ30.i	1:30:00 PM					N/A
6/11/2019	DJ30.i	3:30:00 PM					N/A
6/11/2019	DKKJPY	9:30:00 AM					N/A
6/11/2019	DKKJPY	11:30:00 AM					N/A
6/11/2019	DKKJPY	1:30:00 PM					N/A
6/11/2019	DKKJPY	3:30:00 PM	16.47	16.49			N/A
6/11/2019	EURAUD	9:30:00 AM	1.62665	1.62711			N/A
6/11/2019	EURAUD	11:30:00 AM	1.62659	1.62699			N/A
6/11/2019	EURAUD	1:30:00 PM	1.62656	1.62673			N/A
6/11/2019	EURAUD	3:30:00 PM	1.6263	1.62622			N/A
6/11/2019	EURAUD.fx	9:30:00 AM	1.62687	1.62689			N/A
6/11/2019	EURAUD.fx	11:30:00 AM	1.62678	1.62678			N/A
6/11/2019	EURAUD.fx	1:30:00 PM	1.62676	1.62651			N/A
6/11/2019	EURAUD.fx	3:30:00 PM	1.62648	1.626			N/A
6/11/2019	EURCAD	9:30:00 AM	1.50038	1.5012			N/A
6/11/2019	EURCAD	11:30:00 AM	1.50051	1.50121			N/A
6/11/2019	EURCAD	1:30:00 PM	1.50044	1.50121			N/A
6/11/2019	EURCAD	3:30:00 PM	1.50001	1.50006			N/A
6/11/2019	EURCAD.fx	9:30:00 AM	1.50079	1.50077			N/A
6/11/2019	EURCAD.fx	11:30:00 AM	1.50093	1.50079			N/A
6/11/2019	EURCAD.fx	1:30:00 PM	1.50086	1.5008			N/A
6/11/2019	EURCAD.fx	3:30:00 PM	1.50031	1.49965			N/A
6/11/2019	EURCHF	9:30:00 AM	1.1208	1.12087			N/A
6/11/2019	EURCHF	11:30:00 AM	1.12071	1.12069			N/A

6/11/2019	EURCHF	1:30:00 PM	1.1226	1.1226			N/A
6/11/2019	EURCHF	3:30:00 PM	1.12293	1.12283			N/A
6/11/2019	EURCHF.fx	9:30:00 AM	1.12087	1.1208			N/A
6/11/2019	EURCHF.fx	11:30:00 AM	1.12076	1.12065			N/A
6/11/2019	EURCHF.fx	1:30:00 PM	1.12267	1.12253			N/A
6/11/2019	EURCHF.fx	3:30:00 PM	1.123	1.12276			N/A
6/11/2019	EURCZK	9:30:00 AM	25.587	25.626			N/A
6/11/2019	EURCZK	11:30:00 AM	25.607	25.644			N/A
6/11/2019	EURCZK	1:30:00 PM	25.612	25.651			N/A
6/11/2019	EURCZK	3:30:00 PM	25.599	25.634			N/A
6/11/2019	EURDKK	9:30:00 AM	7.4685	7.4695			N/A
6/11/2019	EURDKK	11:30:00 AM	7.4672	7.4685			N/A
6/11/2019	EURDKK	1:30:00 PM	7.4673	7.4684			N/A
6/11/2019	EURDKK	3:30:00 PM					N/A
6/11/2019	EURGBP	9:30:00 AM	0.89242	0.89235			N/A
6/11/2019	EURGBP	11:30:00 AM	0.89189	0.89075			N/A
6/11/2019	EURGBP	1:30:00 PM	0.89003	0.88986			N/A
6/11/2019	EURGBP	3:30:00 PM	0.89076	0.89062			N/A
6/11/2019	EURGBP.fx	9:30:00 AM	0.89245	0.8923			N/A
6/11/2019	EURGBP.fx	11:30:00 AM	0.89192	0.89072			N/A
6/11/2019	EURGBP.fx	1:30:00 PM	0.89009	0.88981			N/A
6/11/2019	EURGBP.fx	3:30:00 PM	0.8908	0.89057			N/A
6/11/2019	EURHKD	9:30:00 AM	8.8671	8.8713			N/A
6/11/2019	EURHKD	11:30:00 AM	8.8675	8.871			N/A
6/11/2019	EURHKD	1:30:00 PM	8.8694	8.8741			N/A
6/11/2019	EURHKD	3:30:00 PM	8.8625	8.8605			N/A
6/11/2019	EURHKD.fx	9:30:00 AM	8.86996	8.86842			N/A
6/11/2019	EURHKD.fx	11:30:00 AM	8.87031	8.86827			N/A
6/11/2019	EURHKD.fx	1:30:00 PM	8.8722	8.87123			N/A
6/11/2019	EURHKD.fx	3:30:00 PM	8.86443	8.85773			N/A
6/11/2019	EURHUF	9:30:00 AM	319.82	320.46			N/A
6/11/2019	EURHUF	11:30:00 AM	320.09	320.82			N/A
6/11/2019	EURHUF	1:30:00 PM	320.46	321.1			N/A
6/11/2019	EURHUF	3:30:00 PM	320.34	320.99			N/A

6/11/2019	EURHUF.fx	9:30:00 AM	320.025	320.218			N/A
6/11/2019	EURHUF.fx	11:30:00 AM	320.371	320.537			N/A
6/11/2019	EURHUF.fx	1:30:00 PM	320.751	320.835			N/A
6/11/2019	EURHUF.fx	3:30:00 PM	320.614	320.678			N/A
6/11/2019	EURJPY	9:30:00 AM	122.96	122.949			N/A
6/11/2019	EURJPY	11:30:00 AM	122.961	122.944			N/A
6/11/2019	EURJPY	1:30:00 PM	123.076	123.078			N/A
6/11/2019	EURJPY	3:30:00 PM	123.055	123.002			N/A
6/11/2019	EURJPY.fx	9:30:00 AM	122.963	122.945			N/A
6/11/2019	EURJPY.fx	11:30:00 AM	122.964	122.942			N/A
6/11/2019	EURJPY.fx	1:30:00 PM	123.078	123.073			N/A
6/11/2019	EURJPY.fx	3:30:00 PM	123.056	122.998			N/A
6/11/2019	EURMXN	9:30:00 AM	21.6954	21.708			N/A
6/11/2019	EURMXN	11:30:00 AM	21.6958	21.7148			N/A
6/11/2019	EURMXN	1:30:00 PM	21.6784	21.6966			N/A
6/11/2019	EURMXN	3:30:00 PM	21.6853	21.6823			N/A
6/11/2019	EURMXN.f	9:30:00 AM	21.7028	21.7004			N/A
6/11/2019	EURMXN.f	11:30:00 AM	21.7041	21.7068			N/A
6/11/2019	EURMXN.f	1:30:00 PM	21.6866	21.6876			N/A
6/11/2019	EURMXN.f	3:30:00 PM	21.6914	21.6734			N/A
6/11/2019	EURNOK	9:30:00 AM	9.8156	9.8275			N/A
6/11/2019	EURNOK	11:30:00 AM	9.7865	9.7982			N/A
6/11/2019	EURNOK	1:30:00 PM	9.7786	9.7896			N/A
6/11/2019	EURNOK	3:30:00 PM	9.767	9.7783			N/A
6/11/2019	EURNOK.fx	9:30:00 AM	9.82101	9.82209			N/A
6/11/2019	EURNOK.fx	11:30:00 AM	9.79203	9.79275			N/A
6/11/2019	EURNOK.fx	1:30:00 PM	9.78423	9.784			N/A
6/11/2019	EURNOK.fx	3:30:00 PM	9.77231	9.7729			N/A
6/11/2019	EURNZD	9:30:00 AM	1.71552	1.71596			N/A
6/11/2019	EURNZD	11:30:00 AM	1.7168	1.71762			N/A
6/11/2019	EURNZD	1:30:00 PM	1.7188	1.71929			N/A
6/11/2019	EURNZD	3:30:00 PM	1.72073	1.72091			N/A
6/11/2019	EURNZD.fx	9:30:00 AM	1.71594	1.7155			N/A
6/11/2019	EURNZD.fx	11:30:00 AM	1.71723	1.71717			N/A

6/11/2019	EURNZD.fx	1:30:00 PM	1.71922	1.71884			N/A
6/11/2019	EURNZD.fx	3:30:00 PM	1.72114	1.72046			N/A
6/11/2019	EURPLN	9:30:00 AM	4.2604	4.2635			N/A
6/11/2019	EURPLN	11:30:00 AM	4.2647	4.2646			N/A
6/11/2019	EURPLN	1:30:00 PM	4.2657	4.2687			N/A
6/11/2019	EURPLN	3:30:00 PM	4.2659	4.2688			N/A
6/11/2019	EURPLN.fx	9:30:00 AM	4.25967	4.26412			N/A
6/11/2019	EURPLN.fx	11:30:00 AM	4.26406	4.26822			N/A
6/11/2019	EURPLN.fx	1:30:00 PM	4.26513	4.26926			N/A
6/11/2019	EURPLN.fx	3:30:00 PM	4.26542	4.26932			N/A
6/11/2019	EURRUB	9:30:00 AM					N/A
6/11/2019	EURRUB	11:30:00 AM	72.715	73.139			N/A
6/11/2019	EURRUB	1:30:00 PM	72.691	73.124			N/A
6/11/2019	EURRUB	3:30:00 PM	72.667	73.063			N/A
6/11/2019	EURSEK	9:30:00 AM	10.6564	10.6593			N/A
6/11/2019	EURSEK	11:30:00 AM	10.6695	10.6741			N/A
6/11/2019	EURSEK	1:30:00 PM	10.6864	10.6907			N/A
6/11/2019	EURSEK	3:30:00 PM	10.6824	10.6856			N/A
6/11/2019	EURSEK.fx	9:30:00 AM	10.65778	10.65797			N/A
6/11/2019	EURSEK.fx	11:30:00 AM	10.67125	10.67231			N/A
6/11/2019	EURSEK.fx	1:30:00 PM	10.68808	10.68903			N/A
6/11/2019	EURSEK.fx	3:30:00 PM	10.68388	10.68356			N/A
6/11/2019	EURSGD	9:30:00 AM	1.5446	1.5454			N/A
6/11/2019	EURSGD	11:30:00 AM	1.5444	1.5452			N/A
6/11/2019	EURSGD	1:30:00 PM	1.5448	1.5456			N/A
6/11/2019	EURSGD	3:30:00 PM	1.5437	1.5436			N/A
6/11/2019	EURSGD.fx	9:30:00 AM	1.54501	1.54501			N/A
6/11/2019	EURSGD.fx	11:30:00 AM	1.54478	1.54471			N/A
6/11/2019	EURSGD.fx	1:30:00 PM	1.54518	1.54517			N/A
6/11/2019	EURSGD.fx	3:30:00 PM	1.54398	1.54318			N/A
6/11/2019	EURUSD	9:30:00 AM	1.13146	1.13143			N/A
6/11/2019	EURUSD	11:30:00 AM	1.13175	1.13164			N/A
6/11/2019	EURUSD	1:30:00 PM	1.13212	1.13214			N/A
6/11/2019	EURUSD	3:30:00 PM	1.13117	1.1304			N/A

6/11/2019	EURUSD.fx	9:30:00 AM	1.13165	1.13153			N/A
6/11/2019	EURUSD.fx	11:30:00 AM	1.13195	1.13174			N/A
6/11/2019	EURUSD.fx	1:30:00 PM	1.13232	1.13223			N/A
6/11/2019	EURUSD.fx	3:30:00 PM	1.13134	1.13049			N/A
6/11/2019	EURZAR	9:30:00 AM	16.6968	16.7126			N/A
6/11/2019	EURZAR	11:30:00 AM	16.6867	16.6978			N/A
6/11/2019	EURZAR	1:30:00 PM	16.7039	16.7153			N/A
6/11/2019	EURZAR	3:30:00 PM	16.7152	16.7203			N/A
6/11/2019	EURZAR.fx	9:30:00 AM	16.69593	16.71376			N/A
6/11/2019	EURZAR.fx	11:30:00 AM	16.68596	16.69853			N/A
6/11/2019	EURZAR.fx	1:30:00 PM	16.70319	16.71626			N/A
6/11/2019	EURZAR.fx	3:30:00 PM	16.71324	16.72054			N/A
6/11/2019	GBPAUD	9:30:00 AM	1.82352	1.82399			N/A
6/11/2019	GBPAUD	11:30:00 AM	1.82667	1.82514			N/A
6/11/2019	GBPAUD	1:30:00 PM	1.82828	1.82854			N/A
6/11/2019	GBPAUD	3:30:00 PM	1.82628	1.82684			N/A
6/11/2019	GBPAUD.fx	9:30:00 AM	1.82392	1.82359			N/A
6/11/2019	GBPAUD.fx	11:30:00 AM	1.82703	1.82506			N/A
6/11/2019	GBPAUD.fx	1:30:00 PM	1.82867	1.82813			N/A
6/11/2019	GBPAUD.fx	3:30:00 PM	1.82669	1.82646			N/A
6/11/2019	GBPCAD	9:30:00 AM	1.6815	1.68203			N/A
6/11/2019	GBPCAD	11:30:00 AM	1.68472	1.68319			N/A
6/11/2019	GBPCAD	1:30:00 PM	1.68638	1.6866			N/A
6/11/2019	GBPCAD	3:30:00 PM	1.68383	1.68435			N/A
6/11/2019	GBPCAD.fx	9:30:00 AM	1.68189	1.68164			N/A
6/11/2019	GBPCAD.fx	11:30:00 AM	1.68513	1.68309			N/A
6/11/2019	GBPCAD.fx	1:30:00 PM	1.68676	1.68618			N/A
6/11/2019	GBPCAD.fx	3:30:00 PM	1.68416	1.68398			N/A
6/11/2019	GBPCHF	9:30:00 AM	1.25595	1.2561			N/A
6/11/2019	GBPCHF	11:30:00 AM	1.25803	1.25689			N/A
6/11/2019	GBPCHF	1:30:00 PM	1.26138	1.26148			N/A
6/11/2019	GBPCHF	3:30:00 PM	1.26055	1.26078			N/A
6/11/2019	GBPCHF.fx	9:30:00 AM	1.25614	1.2559			N/A
6/11/2019	GBPCHF.fx	11:30:00 AM	1.25822	1.25684			N/A

6/11/2019	GBPCHF.fx	1:30:00 PM	1.26153	1.26128			N/A
6/11/2019	GBPCHF.fx	3:30:00 PM	1.26074	1.26058			N/A
6/11/2019	GBPCZK	9:30:00 AM	28.684	28.702			N/A
6/11/2019	GBPCZK	11:30:00 AM	28.759	28.741			N/A
6/11/2019	GBPCZK	1:30:00 PM	28.794	28.807			N/A
6/11/2019	GBPCZK	3:30:00 PM	28.75	28.767			N/A
6/11/2019	GBPDKK	9:30:00 AM	8.366	8.375			N/A
6/11/2019	GBPDKK	11:30:00 AM	8.38	8.382			N/A
6/11/2019	GBPDKK	1:30:00 PM	8.388	8.397			N/A
6/11/2019	GBPDKK	3:30:00 PM	8.382	8.391			N/A
6/11/2019	GBPDKK.fx	9:30:00 AM	8.364	8.3758			N/A
6/11/2019	GBPDKK.fx	11:30:00 AM	8.3784	8.3828			N/A
6/11/2019	GBPDKK.fx	1:30:00 PM	8.3871	8.3977			N/A
6/11/2019	GBPDKK.fx	3:30:00 PM	8.3802	8.3912			N/A
6/11/2019	GBPHKD	9:30:00 AM	9.9349	9.9384			N/A
6/11/2019	GBPHKD	11:30:00 AM	9.9533	9.9419			N/A
6/11/2019	GBPHKD	1:30:00 PM	9.9663	9.9669			N/A
6/11/2019	GBPHKD	3:30:00 PM	9.9454	9.9464			N/A
6/11/2019	GBPHUF	9:30:00 AM	358.37	358.64			N/A
6/11/2019	GBPHUF	11:30:00 AM	359.36	359.17			N/A
6/11/2019	GBPHUF	1:30:00 PM	360.05	360.46			N/A
6/11/2019	GBPHUF	3:30:00 PM	359.5	359.9			N/A
6/11/2019	GBPJPY	9:30:00 AM	137.783	137.784			N/A
6/11/2019	GBPJPY	11:30:00 AM	138.03	137.873			N/A
6/11/2019	GBPJPY	1:30:00 PM	138.295	138.289			N/A
6/11/2019	GBPJPY	3:30:00 PM	138.127	138.133			N/A
6/11/2019	GBPJPY.fx	9:30:00 AM	137.802	137.764			N/A
6/11/2019	GBPJPY.fx	11:30:00 AM	138.048	137.871			N/A
6/11/2019	GBPJPY.fx	1:30:00 PM	138.316	138.269			N/A
6/11/2019	GBPJPY.fx	3:30:00 PM	138.148	138.114			N/A
6/11/2019	GBPMXN	9:30:00 AM	24.3086	24.3127			N/A
6/11/2019	GBPMXN	11:30:00 AM	24.3525	24.3312			N/A
6/11/2019	GBPMXN	1:30:00 PM	24.3596	24.3637			N/A
6/11/2019	GBPMXN	3:30:00 PM	24.3334	24.3335			N/A

6/11/2019	GBPNOK	9:30:00 AM	11.0016	11.0104			N/A
6/11/2019	GBPNOK	11:30:00 AM	10.9886	10.9867			N/A
6/11/2019	GBPNOK	1:30:00 PM	10.9891	10.9983			N/A
6/11/2019	GBPNOK	3:30:00 PM	10.9668	10.976			N/A
6/11/2019	GBPNOK.fx	9:30:00 AM	11.00644	11.00557			N/A
6/11/2019	GBPNOK.fx	11:30:00 AM	10.99361	10.98322			N/A
6/11/2019	GBPNOK.fx	1:30:00 PM	10.99389	10.99313			N/A
6/11/2019	GBPNOK.fx	3:30:00 PM	10.9715	10.97216			N/A
6/11/2019	GBPNZD	9:30:00 AM	1.92274	1.92271			N/A
6/11/2019	GBPNZD	11:30:00 AM	1.92752	1.92575			N/A
6/11/2019	GBPNZD	1:30:00 PM	1.9313	1.93168			N/A
6/11/2019	GBPNZD	3:30:00 PM	1.93188	1.9323			N/A
6/11/2019	GBPNZD.fx	9:30:00 AM	1.92309	1.92231			N/A
6/11/2019	GBPNZD.fx	11:30:00 AM	1.92785	1.92565			N/A
6/11/2019	GBPNZD.fx	1:30:00 PM	1.93171	1.93128			N/A
6/11/2019	GBPNZD.fx	3:30:00 PM	1.93226	1.93193			N/A
6/11/2019	GBPPLN	9:30:00 AM	4.7755	4.7765			N/A
6/11/2019	GBPPLN	11:30:00 AM	4.789	4.7852			N/A
6/11/2019	GBPPLN	1:30:00 PM	4.7946	4.795			N/A
6/11/2019	GBPPLN	3:30:00 PM	4.7905	4.7913			N/A
6/11/2019	GBPPLN.fx	9:30:00 AM	4.77318	4.77871			N/A
6/11/2019	GBPPLN.fx	11:30:00 AM	4.78685	4.78839			N/A
6/11/2019	GBPPLN.fx	1:30:00 PM	4.79254	4.79695			N/A
6/11/2019	GBPPLN.fx	3:30:00 PM	4.78843	4.79354			N/A
6/11/2019	GBPSEK	9:30:00 AM	11.9394	11.9463			N/A
6/11/2019	GBPSEK	11:30:00 AM	11.9771	11.9707			N/A
6/11/2019	GBPSEK	1:30:00 PM	12.0069	12.0129			N/A
6/11/2019	GBPSEK	3:30:00 PM	11.9923	11.998			N/A
6/11/2019	GBPSEK.fx	9:30:00 AM	11.93543	11.95021			N/A
6/11/2019	GBPSEK.fx	11:30:00 AM	11.97345	11.97645			N/A
6/11/2019	GBPSEK.fx	1:30:00 PM	12.00335	12.01639			N/A
6/11/2019	GBPSEK.fx	3:30:00 PM	11.98827	12.00268			N/A
6/11/2019	GBPSGD	9:30:00 AM	1.731	1.7316			N/A
6/11/2019	GBPSGD	11:30:00 AM	1.734	1.7324			N/A

6/11/2019	GBPSGD	1:30:00 PM	1.7359	1.7363			N/A
6/11/2019	GBPSGD	3:30:00 PM	1.7329	1.7332			N/A
6/11/2019	GBPSGD.fx	9:30:00 AM	1.72921	1.73337			N/A
6/11/2019	GBPSGD.fx	11:30:00 AM	1.73217	1.73443			N/A
6/11/2019	GBPSGD.fx	1:30:00 PM	1.73443	1.73812			N/A
6/11/2019	GBPSGD.fx	3:30:00 PM	1.73102	1.73496			N/A
6/11/2019	GBPUSD	9:30:00 AM	1.26819	1.26792			N/A
6/11/2019	GBPUSD	11:30:00 AM	1.27083	1.2689	1000	1000	N/A
6/11/2019	GBPUSD	1:30:00 PM	1.27256	1.2721	1000	10000	N/A
6/11/2019	GBPUSD	3:30:00 PM	1.26998	1.26945			N/A
6/11/2019	GBPUSD.fx	9:30:00 AM	1.26825	1.26786			N/A
6/11/2019	GBPUSD.fx	11:30:00 AM	1.27086	1.26893			N/A
6/11/2019	GBPUSD.fx	1:30:00 PM	1.27261	1.272			N/A
6/11/2019	GBPUSD.fx	3:30:00 PM	1.27	1.26939			N/A
6/11/2019	GBPZAR	9:30:00 AM	18.7058	18.7303			N/A
6/11/2019	GBPZAR	11:30:00 AM	18.7254	18.7353			N/A
6/11/2019	GBPZAR	1:30:00 PM	18.7626	18.7847			N/A
6/11/2019	GBPZAR	3:30:00 PM	18.7603	18.7773			N/A
6/11/2019	GBPZAR.fx	9:30:00 AM	18.7121	18.7232			N/A
6/11/2019	GBPZAR.fx	11:30:00 AM	18.7323	18.7321			N/A
6/11/2019	GBPZAR.fx	1:30:00 PM	18.7703	18.7777			N/A
6/11/2019	GBPZAR.fx	3:30:00 PM	18.7675	18.7703			N/A
6/11/2019	GOLD	9:30:00 AM	1326.96	1326.67			N/A
6/11/2019	GOLD	11:30:00 AM	1322.79	1322.86			N/A
6/11/2019	GOLD	1:30:00 PM	1322.48	1322.62			N/A
6/11/2019	GOLD	3:30:00 PM	1321.43	1321.03			N/A
6/11/2019	HKDJPY	9:30:00 AM	13.86	13.87			N/A
6/11/2019	HKDJPY	11:30:00 AM	13.86	13.87			N/A
6/11/2019	HKDJPY	1:30:00 PM	13.87	13.89			N/A
6/11/2019	HKDJPY	3:30:00 PM	13.88	13.89			N/A
6/11/2019	HKDJPY.fx	9:30:00 AM	13.859	13.865			N/A
6/11/2019	HKDJPY.fx	11:30:00 AM	13.858	13.866			N/A
6/11/2019	HKDJPY.fx	1:30:00 PM	13.869	13.875			N/A
6/11/2019	HKDJPY.fx	3:30:00 PM	13.88	13.886			N/A

6/11/2019	HUFJPY	9:30:00 AM	0.3844	0.3847			N/A
6/11/2019	HUFJPY	11:30:00 AM	0.384	0.3843			N/A
6/11/2019	HUFJPY	1:30:00 PM	0.3839	0.3842			N/A
6/11/2019	HUFJPY	3:30:00 PM	0.3841	0.3844			N/A
6/11/2019	JP225.i	9:30:00 AM	21200.3	21215.3			N/A
6/11/2019	JP225.i	11:30:00 AM	21241.97	21255.3			N/A
6/11/2019	JP225.i	1:30:00 PM	21295.3	21308.64			N/A
6/11/2019	JP225.i	3:30:00 PM	21291.97	21305.3			N/A
6/11/2019	MXNJPY	9:30:00 AM	5.67	5.67			N/A
6/11/2019	MXNJPY	11:30:00 AM	5.67	5.68			N/A
6/11/2019	MXNJPY	1:30:00 PM	5.68	5.68			N/A
6/11/2019	MXNJPY	3:30:00 PM	5.67	5.68			N/A
6/11/2019	NASDAQ.i	9:30:00 AM					N/A
6/11/2019	NASDAQ.i	11:30:00 AM					N/A
6/11/2019	NASDAQ.i	1:30:00 PM					N/A
6/11/2019	NASDAQ.i	3:30:00 PM					N/A
6/11/2019	NOKJPY	9:30:00 AM	12.51	12.54			N/A
6/11/2019	NOKJPY	11:30:00 AM	12.54	12.57			N/A
6/11/2019	NOKJPY	1:30:00 PM	12.57	12.6			N/A
6/11/2019	NOKJPY	3:30:00 PM	12.58	12.61			N/A
6/11/2019	NOKJPY.fx	9:30:00 AM	12.515	12.522			N/A
6/11/2019	NOKJPY.fx	11:30:00 AM	12.554	12.558			N/A
6/11/2019	NOKJPY.fx	1:30:00 PM	12.577	12.583			N/A
6/11/2019	NOKJPY.fx	3:30:00 PM	12.589	12.591			N/A
6/11/2019	NZDCAD	9:30:00 AM	0.87446	0.87496			N/A
6/11/2019	NZDCAD	11:30:00 AM	0.87368	0.87434			N/A
6/11/2019	NZDCAD	1:30:00 PM	0.87284	0.87333			N/A
6/11/2019	NZDCAD	3:30:00 PM	0.87147	0.8719			N/A
6/11/2019	NZDCAD.fx	9:30:00 AM	0.8748	0.87462			N/A
6/11/2019	NZDCAD.fx	11:30:00 AM	0.87401	0.87399			N/A
6/11/2019	NZDCAD.fx	1:30:00 PM	0.87319	0.87298			N/A
6/11/2019	NZDCAD.fx	3:30:00 PM	0.87175	0.87156			N/A
6/11/2019	NZDCHF	9:30:00 AM	0.65295	0.65355			N/A
6/11/2019	NZDCHF	11:30:00 AM	0.65233	0.65293			N/A

6/11/2019	NZDCHF	1:30:00 PM	0.65271	0.65336			N/A
6/11/2019	NZDCHF	3:30:00 PM	0.65222	0.65284			N/A
6/11/2019	NZDCHF.fx	9:30:00 AM	0.6533	0.6532			N/A
6/11/2019	NZDCHF.fx	11:30:00 AM	0.65266	0.65258			N/A
6/11/2019	NZDCHF.fx	1:30:00 PM	0.65306	0.65301			N/A
6/11/2019	NZDCHF.fx	3:30:00 PM	0.65255	0.65249			N/A
6/11/2019	NZDCZK	9:30:00 AM	14.918	14.927			N/A
6/11/2019	NZDCZK	11:30:00 AM	14.917	14.927			N/A
6/11/2019	NZDCZK	1:30:00 PM	14.905	14.914			N/A
6/11/2019	NZDCZK	3:30:00 PM	14.881	14.888			N/A
6/11/2019	NZDDKK	9:30:00 AM					N/A
6/11/2019	NZDDKK	11:30:00 AM	4.347	4.349			N/A
6/11/2019	NZDDKK	1:30:00 PM	4.342	4.346			N/A
6/11/2019	NZDDKK	3:30:00 PM	4.337	4.34			N/A
6/11/2019	NZDHKD	9:30:00 AM	5.1669	5.1688			N/A
6/11/2019	NZDHKD	11:30:00 AM	5.1618	5.1636			N/A
6/11/2019	NZDHKD	1:30:00 PM	5.1585	5.1596			N/A
6/11/2019	NZDHKD	3:30:00 PM	5.1469	5.1483			N/A
6/11/2019	NZDHUF	9:30:00 AM	186.33	186.59			N/A
6/11/2019	NZDHUF	11:30:00 AM	186.36	186.55			N/A
6/11/2019	NZDHUF	1:30:00 PM	186.37	186.63			N/A
6/11/2019	NZDHUF	3:30:00 PM	186.04	186.28			N/A
6/11/2019	NZDJPY	9:30:00 AM	71.629	71.687			N/A
6/11/2019	NZDJPY	11:30:00 AM	71.573	71.632			N/A
6/11/2019	NZDJPY	1:30:00 PM	71.569	71.623			N/A
6/11/2019	NZDJPY	3:30:00 PM	71.467	71.528			N/A
6/11/2019	NZDJPY.fx	9:30:00 AM	71.66	71.655			N/A
6/11/2019	NZDJPY.fx	11:30:00 AM	71.604	71.599			N/A
6/11/2019	NZDJPY.fx	1:30:00 PM	71.601	71.59			N/A
6/11/2019	NZDJPY.fx	3:30:00 PM	71.498	71.495			N/A
6/11/2019	NZDMXN	9:30:00 AM	12.643	12.6434			N/A
6/11/2019	NZDMXN	11:30:00 AM	12.6302	12.6355			N/A
6/11/2019	NZDMXN	1:30:00 PM	12.61	12.6115			N/A
6/11/2019	NZDMXN	3:30:00 PM	12.5944	12.5933			N/A

6/11/2019	NZDNOK	9:30:00 AM	5.7197	5.7233			N/A
6/11/2019	NZDNOK	11:30:00 AM	5.6975	5.7			N/A
6/11/2019	NZDNOK	1:30:00 PM	5.6876	5.6903			N/A
6/11/2019	NZDNOK	3:30:00 PM	5.6725	5.6742			N/A
6/11/2019	NZDPLN	9:30:00 AM	2.4824	2.4838			N/A
6/11/2019	NZDPLN	11:30:00 AM	2.4824	2.4831			N/A
6/11/2019	NZDPLN	1:30:00 PM	2.4812	2.4818			N/A
6/11/2019	NZDPLN	3:30:00 PM	2.4765	2.4777			N/A
6/11/2019	NZDSEK	9:30:00 AM	6.2063	6.2121			N/A
6/11/2019	NZDSEK	11:30:00 AM	6.2086	6.2148			N/A
6/11/2019	NZDSEK	1:30:00 PM	6.2125	6.2179			N/A
6/11/2019	NZDSEK	3:30:00 PM	6.2022	6.204			N/A
6/11/2019	NZDSGD	9:30:00 AM	0.9003	0.9007			N/A
6/11/2019	NZDSGD	11:30:00 AM	0.8993	0.8999			N/A
6/11/2019	NZDSGD	1:30:00 PM	0.8987	0.8991			N/A
6/11/2019	NZDSGD	3:30:00 PM	0.8968	0.8973			N/A
6/11/2019	NZDSGD.fx	9:30:00 AM	0.9003	0.90064			N/A
6/11/2019	NZDSGD.fx	11:30:00 AM	0.89931	0.89982			N/A
6/11/2019	NZDSGD.fx	1:30:00 PM	0.89868	0.89901			N/A
6/11/2019	NZDSGD.fx	3:30:00 PM	0.89678	0.89719			N/A
6/11/2019	NZDUSD	9:30:00 AM	0.65946	0.65946			N/A
6/11/2019	NZDUSD	11:30:00 AM	0.65905	0.65909			N/A
6/11/2019	NZDUSD	1:30:00 PM	0.65865	0.6586			N/A
6/11/2019	NZDUSD	3:30:00 PM	0.65724	0.65713			N/A
6/11/2019	NZDUSD.fx	9:30:00 AM	0.65953	0.65948			N/A
6/11/2019	NZDUSD.fx	11:30:00 AM	0.65913	0.6591			N/A
6/11/2019	NZDUSD.fx	1:30:00 PM	0.65873	0.65861			N/A
6/11/2019	NZDUSD.fx	3:30:00 PM	0.65729	0.65713			N/A
6/11/2019	NZDZAR	9:30:00 AM	9.7244	9.7375			N/A
6/11/2019	NZDZAR	11:30:00 AM	9.7057	9.7209			N/A
6/11/2019	NZDZAR	1:30:00 PM	9.7072	9.7215			N/A
6/11/2019	NZDZAR	3:30:00 PM	9.6998	9.7127			N/A
6/11/2019	SEKJPY	9:30:00 AM	11.54	11.54			N/A
6/11/2019	SEKJPY	11:30:00 AM					N/A

6/11/2019	SEKJPY	1:30:00 PM	11.52	11.52			N/A
6/11/2019	SEKJPY	3:30:00 PM	11.52	11.52			N/A
6/11/2019	SEKJPY.fx	9:30:00 AM	11.527	11.544			N/A
6/11/2019	SEKJPY.fx	11:30:00 AM	11.512	11.53			N/A
6/11/2019	SEKJPY.fx	1:30:00 PM	11.505	11.523			N/A
6/11/2019	SEKJPY.fx	3:30:00 PM	11.507	11.522			N/A
6/11/2019	SGDJPY	9:30:00 AM	79.55	79.57			N/A
6/11/2019	SGDJPY	11:30:00 AM	79.56	79.6			N/A
6/11/2019	SGDJPY	1:30:00 PM	79.62	79.65			N/A
6/11/2019	SGDJPY	3:30:00 PM	79.69	79.7			N/A
6/11/2019	SILVER	9:30:00 AM	14.51	14.87			N/A
6/11/2019	SILVER	11:30:00 AM	14.49	14.86			N/A
6/11/2019	SILVER	1:30:00 PM	14.5	14.88			N/A
6/11/2019	SILVER	3:30:00 PM	14.48	14.85			N/A
6/11/2019	SPX500.i	9:30:00 AM	2896.44	2896.99			N/A
6/11/2019	SPX500.i	11:30:00 AM	2896.94	2897.49			N/A
6/11/2019	SPX500.i	1:30:00 PM	2903.12	2903.49			N/A
6/11/2019	SPX500.i	3:30:00 PM	2904.19	2904.99			N/A
6/11/2019	UK100.i	9:30:00 AM	7396.58	7398.08			N/A
6/11/2019	UK100.i	11:30:00 AM	7411.83	7410.08			N/A
6/11/2019	UK100.i	1:30:00 PM	7415.93	7415.58			N/A
6/11/2019	UK100.i	3:30:00 PM	7416.33	7417.08			N/A
6/11/2019	USDCAD	9:30:00 AM	1.32629	1.32631			N/A
6/11/2019	USDCAD	11:30:00 AM	1.32605	1.32607			N/A
6/11/2019	USDCAD	1:30:00 PM	1.32552	1.32561			N/A
6/11/2019	USDCAD	3:30:00 PM	1.32653	1.32629			N/A
6/11/2019	USDCAD.fx	9:30:00 AM	1.32632	1.32627			N/A
6/11/2019	USDCAD.fx	11:30:00 AM	1.32608	1.32605			N/A
6/11/2019	USDCAD.fx	1:30:00 PM	1.32556	1.32556			N/A
6/11/2019	USDCAD.fx	3:30:00 PM	1.32656	1.32626			N/A
6/11/2019	USDCHF	9:30:00 AM	0.99049	0.99052			N/A
6/11/2019	USDCHF	11:30:00 AM	0.99015	0.99016			N/A
6/11/2019	USDCHF	1:30:00 PM	0.99145	0.99141			N/A
6/11/2019	USDCHF	3:30:00 PM	0.9931	0.99262			N/A

6/11/2019	USDCHF.fx	9:30:00 AM	0.99053	0.99046			N/A
6/11/2019	USDCHF.fx	11:30:00 AM	0.99018	0.9901			N/A
6/11/2019	USDCHF.fx	1:30:00 PM	0.9915	0.99134			N/A
6/11/2019	USDCHF.fx	3:30:00 PM	0.99315	0.99261			N/A
6/11/2019	USDCZK	9:30:00 AM	22.637	22.658			N/A
6/11/2019	USDCZK	11:30:00 AM	22.651	22.671			N/A
6/11/2019	USDCZK	1:30:00 PM	22.646	22.668			N/A
6/11/2019	USDCZK	3:30:00 PM	22.669	22.676			N/A
6/11/2019	USDCZK.fx	9:30:00 AM	22.6459	22.6496			N/A
6/11/2019	USDCZK.fx	11:30:00 AM	22.6615	22.662			N/A
6/11/2019	USDCZK.fx	1:30:00 PM	22.655	22.659			N/A
6/11/2019	USDCZK.fx	3:30:00 PM	22.6778	22.6683			N/A
6/11/2019	USDDKK	9:30:00 AM	6.5996	6.6029			N/A
6/11/2019	USDDKK	11:30:00 AM	6.5981	6.6009			N/A
6/11/2019	USDDKK	1:30:00 PM	6.5954	6.5989			N/A
6/11/2019	USDDKK	3:30:00 PM	6.6056	6.6046			N/A
6/11/2019	USDDKK.fx	9:30:00 AM	6.60018	6.60094			N/A
6/11/2019	USDDKK.fx	11:30:00 AM	6.59854	6.59885			N/A
6/11/2019	USDDKK.fx	1:30:00 PM	6.5958	6.59683			N/A
6/11/2019	USDDKK.fx	3:30:00 PM	6.60608	6.60277			N/A
6/11/2019	USDHKD	9:30:00 AM	7.8376	7.838			N/A
6/11/2019	USDHKD	11:30:00 AM	7.836	7.8363			N/A
6/11/2019	USDHKD	1:30:00 PM	7.8348	7.8351			N/A
6/11/2019	USDHKD	3:30:00 PM	7.8352	7.8356			N/A
6/11/2019	USDHKD.fx	9:30:00 AM	7.83765	7.83802			N/A
6/11/2019	USDHKD.fx	11:30:00 AM	7.83593	7.83624			N/A
6/11/2019	USDHKD.fx	1:30:00 PM	7.83498	7.8355			N/A
6/11/2019	USDHKD.fx	3:30:00 PM	7.83525	7.83559			N/A
6/11/2019	USDHUF	9:30:00 AM	282.73	283.11			N/A
6/11/2019	USDHUF	11:30:00 AM	282.92	283.34			N/A
6/11/2019	USDHUF	1:30:00 PM	283.13	283.5			N/A
6/11/2019	USDHUF	3:30:00 PM	283.4	283.7			N/A
6/11/2019	USDHUF.fx	9:30:00 AM	282.893	282.949			N/A
6/11/2019	USDHUF.fx	11:30:00 AM	283.114	283.148			N/A

6/11/2019	USDHUF.fx	1:30:00 PM	283.325	283.306			N/A
6/11/2019	USDHUF.fx	3:30:00 PM	283.608	283.51			N/A
6/11/2019	USDINR	9:30:00 AM	64.43	74.42			N/A
6/11/2019	USDINR	11:30:00 AM	64.38	74.37			N/A
6/11/2019	USDINR	1:30:00 PM					N/A
6/11/2019	USDINR	3:30:00 PM					N/A
6/11/2019	USDJPY	9:30:00 AM	108.659	108.658			N/A
6/11/2019	USDJPY	11:30:00 AM	108.627	108.636			N/A
6/11/2019	USDJPY	1:30:00 PM	108.698	108.699			N/A
6/11/2019	USDJPY	3:30:00 PM	108.789	108.775			N/A
6/11/2019	USDJPY.fx	9:30:00 AM	108.665	108.651			N/A
6/11/2019	USDJPY.fx	11:30:00 AM	108.632	108.63			N/A
6/11/2019	USDJPY.fx	1:30:00 PM	108.705	108.691			N/A
6/11/2019	USDJPY.fx	3:30:00 PM	108.795	108.772			N/A
6/11/2019	USDMXN	9:30:00 AM	19.178	19.177			N/A
6/11/2019	USDMXN	11:30:00 AM	19.175	19.18			N/A
6/11/2019	USDMXN	1:30:00 PM	19.15	19.157			N/A
6/11/2019	USDMXN	3:30:00 PM	19.171	19.175			N/A
6/11/2019	USDMXN.f	9:30:00 AM					N/A
6/11/2019	USDMXN.f	11:30:00 AM					N/A
6/11/2019	USDMXN.f	1:30:00 PM					N/A
6/11/2019	USDMXN.f	3:30:00 PM					N/A
6/11/2019	USDNOK	9:30:00 AM	8.6761	8.6833			N/A
6/11/2019	USDNOK	11:30:00 AM	8.6487	8.6552			N/A
6/11/2019	USDNOK	1:30:00 PM	8.6378	8.6449			N/A
6/11/2019	USDNOK	3:30:00 PM	8.6398	8.6421			N/A
6/11/2019	USDNOK.fx	9:30:00 AM	8.68022	8.67905			N/A
6/11/2019	USDNOK.fx	11:30:00 AM	8.65318	8.65071			N/A
6/11/2019	USDNOK.fx	1:30:00 PM	8.64194	8.64037			N/A
6/11/2019	USDNOK.fx	3:30:00 PM	8.64363	8.63893			N/A
6/11/2019	USDPLN	9:30:00 AM	3.7658	3.7671			N/A
6/11/2019	USDPLN	11:30:00 AM	3.769	3.7695			N/A
6/11/2019	USDPLN	1:30:00 PM	3.7681	3.7693			N/A
6/11/2019	USDPLN	3:30:00 PM	3.7737	3.7729			N/A

6/11/2019	USDPLN.fx	9:30:00 AM	3.76498	3.76783			N/A
6/11/2019	USDPLN.fx	11:30:00 AM	3.76816	3.77023			N/A
6/11/2019	USDPLN.fx	1:30:00 PM	3.76728	3.77001			N/A
6/11/2019	USDPLN.fx	3:30:00 PM	3.77287	3.77373			N/A
6/11/2019	USDRUB	9:30:00 AM					N/A
6/11/2019	USDRUB	11:30:00 AM	64.346	64.737			N/A
6/11/2019	USDRUB	1:30:00 PM	64.308	64.693			N/A
6/11/2019	USDRUB	3:30:00 PM	64.342	64.729			N/A
6/11/2019	USDSEK	9:30:00 AM	9.4163	9.4202			N/A
6/11/2019	USDSEK	11:30:00 AM	9.4266	9.4301			N/A
6/11/2019	USDSEK	1:30:00 PM	9.4375	9.4414			N/A
6/11/2019	USDSEK	3:30:00 PM	9.4465	9.4445			N/A
6/11/2019	USDSEK.fx	9:30:00 AM	9.41949	9.41864			N/A
6/11/2019	USDSEK.fx	11:30:00 AM	9.4292	9.42805			N/A
6/11/2019	USDSEK.fx	1:30:00 PM	9.44018	9.43931			N/A
6/11/2019	USDSEK.fx	3:30:00 PM	9.44992	9.44428			N/A
6/11/2019	USDSGD	9:30:00 AM	1.3652	1.3655			N/A
6/11/2019	USDSGD	11:30:00 AM	1.3647	1.365			N/A
6/11/2019	USDSGD	1:30:00 PM	1.3645	1.3649			N/A
6/11/2019	USDSGD	3:30:00 PM	1.3648	1.365			N/A
6/11/2019	USDSGD.fx	9:30:00 AM	1.36513	1.36548			N/A
6/11/2019	USDSGD.fx	11:30:00 AM	1.36464	1.36502			N/A
6/11/2019	USDSGD.fx	1:30:00 PM	1.36447	1.3649			N/A
6/11/2019	USDSGD.fx	3:30:00 PM	1.36473	1.36501			N/A
6/11/2019	USDZAR	9:30:00 AM	14.7548	14.7695			N/A
6/11/2019	USDZAR	11:30:00 AM	14.7441	14.7521			N/A
6/11/2019	USDZAR	1:30:00 PM	14.7525	14.7636			N/A
6/11/2019	USDZAR	3:30:00 PM	14.7788	14.7888			N/A
6/11/2019	USDZAR.fx	9:30:00 AM					N/A
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6/11/2019	USDZAR.fx	3:30:00 PM					N/A
6/11/2019	XAUUSD	9:30:00 AM	1326.96	1326.67			N/A
6/11/2019	XAUUSD	11:30:00 AM	1322.78	1322.85			N/A

6/11/2019	XAUUSD	1:30:00 PM	1322.48	1322.6			N/A
6/11/2019	XAUUSD	3:30:00 PM	1321.43	1321.02			N/A
6/11/2019	ZARJPY	9:30:00 AM	7.32	7.36			N/A
6/11/2019	ZARJPY	11:30:00 AM	7.35	7.37			N/A
6/11/2019	ZARJPY	1:30:00 PM	7.35	7.37			N/A
6/11/2019	ZARJPY	3:30:00 PM	7.34	7.36			N/A
6/11/2019	ZARJPY.fx	9:30:00 AM	7.359	7.361			N/A
6/11/2019	ZARJPY.fx	11:30:00 AM	7.366	7.364			N/A
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6/12/2019	#ZNGA	3:30:00 PM					N/A
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6/12/2019	AUDCAD	11:30:00 AM	0.92392	0.92453			N/A
6/12/2019	AUDCAD	1:30:00 PM	0.92375	0.92419			N/A
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6/12/2019	AUDCAD.fx	9:30:00 AM	0.9236	0.92352			N/A
6/12/2019	AUDCAD.fx	11:30:00 AM	0.92425	0.92418			N/A
6/12/2019	AUDCAD.fx	1:30:00 PM	0.9241	0.92384			N/A
6/12/2019	AUDCAD.fx	3:30:00 PM	0.92452	0.92401			N/A
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6/12/2019	AUDCHF	1:30:00 PM	0.68982	0.69044			N/A
6/12/2019	AUDCHF	3:30:00 PM	0.69069	0.69093			N/A
6/12/2019	AUDCHF.fx	9:30:00 AM	0.68848	0.68843			N/A
6/12/2019	AUDCHF.fx	11:30:00 AM	0.68968	0.68954			N/A
6/12/2019	AUDCHF.fx	1:30:00 PM	0.69016	0.69008			N/A
6/12/2019	AUDCHF.fx	3:30:00 PM	0.69103	0.69073			N/A
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6/12/2019	AUDCZK	1:30:00 PM	15.7	15.713			N/A
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6/12/2019	AUDDKK	9:30:00 AM	4.5743	4.579			N/A
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6/12/2019	AUDHUF	9:30:00 AM	196.52	196.75			N/A
6/12/2019	AUDHUF	11:30:00 AM	197.05	197.3			N/A
6/12/2019	AUDHUF	1:30:00 PM	197.11	197.3			N/A
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6/12/2019	AUDJPY	3:30:00 PM	75.328	75.345			N/A
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6/12/2019	AUDJPY.fx	1:30:00 PM	75.305	75.291			N/A
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6/12/2019	AUDNOK	11:30:00 AM	6.0025	6.0064			N/A
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6/12/2019	AUDNOK.f	9:30:00 AM	5.9957	5.9977			N/A
6/12/2019	AUDNOK.f	11:30:00 AM	6.0041	6.0047			N/A
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6/12/2019	AUDNOK.f	3:30:00 PM	6.0004	6.0007			N/A
6/12/2019	AUDNZD	9:30:00 AM	1.05602	1.05693			N/A
6/12/2019	AUDNZD	11:30:00 AM	1.0558	1.05666			N/A
6/12/2019	AUDNZD	1:30:00 PM	1.05617	1.05703			N/A
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6/12/2019	AUDNZD.fx	3:30:00 PM	1.05613	1.05579			N/A
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6/12/2019	AUDPLN	11:30:00 AM	2.614	2.6171			N/A
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6/12/2019	AUDSEK.fx	9:30:00 AM	6.5558	6.5681			N/A
6/12/2019	AUDSEK.fx	11:30:00 AM	6.563	6.5747			N/A
6/12/2019	AUDSEK.fx	1:30:00 PM	6.5547	6.5654			N/A
6/12/2019	AUDSEK.fx	3:30:00 PM	6.5483	6.5582			N/A
6/12/2019	AUDSGD	9:30:00 AM	0.9481	0.9484			N/A
6/12/2019	AUDSGD	11:30:00 AM	0.9478	0.9481			N/A
6/12/2019	AUDSGD	1:30:00 PM	0.9481	0.9483			N/A
6/12/2019	AUDSGD	3:30:00 PM	0.9484	0.9484			N/A
6/12/2019	AUDSGD.fx	9:30:00 AM	0.94826	0.94831			N/A
6/12/2019	AUDSGD.fx	11:30:00 AM	0.94793	0.948			N/A
6/12/2019	AUDSGD.fx	1:30:00 PM	0.94822	0.94815			N/A
6/12/2019	AUDSGD.fx	3:30:00 PM	0.94846	0.94785			N/A
6/12/2019	AUDUSD	9:30:00 AM	0.69485	0.69494			N/A
6/12/2019	AUDUSD	11:30:00 AM	0.69506	0.69511			N/A
6/12/2019	AUDUSD	1:30:00 PM	0.69493	0.69487			N/A
6/12/2019	AUDUSD	3:30:00 PM	0.69564	0.6948			N/A
6/12/2019	AUDUSD.fx	9:30:00 AM	0.6949	0.69488			N/A
6/12/2019	AUDUSD.fx	11:30:00 AM	0.69511	0.69505			N/A
6/12/2019	AUDUSD.fx	1:30:00 PM	0.69498	0.69481			N/A
6/12/2019	AUDUSD.fx	3:30:00 PM	0.69568	0.69477			N/A
6/12/2019	AUDZAR	9:30:00 AM	10.1969	10.21			N/A
6/12/2019	AUDZAR	11:30:00 AM	10.2428	10.249			N/A

6/12/2019	AUDZAR	1:30:00 PM	10.2453	10.2593			N/A
6/12/2019	AUDZAR	3:30:00 PM	10.2486	10.255			N/A
6/12/2019	AUS200.i	9:30:00 AM	6545.4	6547.9			N/A
6/12/2019	AUS200.i	11:30:00 AM	6546.44	6549.94			N/A
6/12/2019	AUS200.i	1:30:00 PM	6546.64	6549.14			N/A
6/12/2019	AUS200.i	3:30:00 PM	6545.64	6547.24			N/A
6/12/2019	BCHUSD	9:30:00 AM	398.18	400			N/A
6/12/2019	BCHUSD	11:30:00 AM	398.63	400.26			N/A
6/12/2019	BCHUSD	1:30:00 PM	397.6	398.99			N/A
6/12/2019	BCHUSD	3:30:00 PM	399.85	401.63			N/A
6/12/2019	CADCHF	9:30:00 AM	0.74512	0.74578			N/A
6/12/2019	CADCHF	11:30:00 AM	0.74581	0.74646			N/A
6/12/2019	CADCHF	1:30:00 PM	0.74662	0.74724			N/A
6/12/2019	CADCHF	3:30:00 PM	0.74733	0.74769			N/A
6/12/2019	CADCHF.fx	9:30:00 AM	0.74545	0.74543			N/A
6/12/2019	CADCHF.fx	11:30:00 AM	0.74616	0.74611			N/A
6/12/2019	CADCHF.fx	1:30:00 PM	0.74697	0.74688			N/A
6/12/2019	CADCHF.fx	3:30:00 PM	0.74762	0.74734			N/A
6/12/2019	CADCZK	9:30:00 AM	16.969	16.984			N/A
6/12/2019	CADCZK	11:30:00 AM	16.977	16.994			N/A
6/12/2019	CADCZK	1:30:00 PM	16.994	17.009			N/A
6/12/2019	CADCZK	3:30:00 PM	16.989	16.993			N/A
6/12/2019	CADDKK	9:30:00 AM					N/A
6/12/2019	CADDKK	11:30:00 AM					N/A
6/12/2019	CADDKK	1:30:00 PM					N/A
6/12/2019	CADDKK	3:30:00 PM	4.957	4.957			N/A
6/12/2019	CADHKD	9:30:00 AM	5.8836	5.8871			N/A
6/12/2019	CADHKD	11:30:00 AM	5.8821	5.886			N/A
6/12/2019	CADHKD	1:30:00 PM	5.8803	5.884			N/A
6/12/2019	CADHKD	3:30:00 PM	5.8844	5.8843			N/A
6/12/2019	CADHUF	9:30:00 AM	212.86	213.02			N/A
6/12/2019	CADHUF	11:30:00 AM	213.28	213.43			N/A
6/12/2019	CADHUF	1:30:00 PM	213.37	213.52			N/A
6/12/2019	CADHUF	3:30:00 PM	213.28	213.25			N/A

6/12/2019	CADJPY	9:30:00 AM	81.482	81.54			N/A
6/12/2019	CADJPY	11:30:00 AM	81.409	81.474			N/A
6/12/2019	CADJPY	1:30:00 PM	81.462	81.524			N/A
6/12/2019	CADJPY	3:30:00 PM	81.5	81.543			N/A
6/12/2019	CADJPY.fx	9:30:00 AM	81.515	81.505			N/A
6/12/2019	CADJPY.fx	11:30:00 AM	81.442	81.438			N/A
6/12/2019	CADJPY.fx	1:30:00 PM	81.496	81.49			N/A
6/12/2019	CADJPY.fx	3:30:00 PM	81.529	81.508			N/A
6/12/2019	CADMXN	9:30:00 AM	14.3917	14.4033			N/A
6/12/2019	CADMXN	11:30:00 AM	14.4059	14.4154			N/A
6/12/2019	CADMXN	1:30:00 PM	14.3953	14.4056			N/A
6/12/2019	CADMXN	3:30:00 PM	14.3859	14.3872			N/A
6/12/2019	CADNOK	9:30:00 AM	6.49	6.4943			N/A
6/12/2019	CADNOK	11:30:00 AM	6.494	6.4972			N/A
6/12/2019	CADNOK	1:30:00 PM	6.4926	6.497			N/A
6/12/2019	CADNOK	3:30:00 PM	6.4912	6.4906			N/A
6/12/2019	CADPLN	9:30:00 AM	2.8277	2.8296			N/A
6/12/2019	CADPLN	11:30:00 AM	2.8288	2.8307			N/A
6/12/2019	CADPLN	1:30:00 PM	2.8299	2.8317			N/A
6/12/2019	CADPLN	3:30:00 PM	2.828	2.8274			N/A
6/12/2019	CADSEK	9:30:00 AM	7.1017	7.1057			N/A
6/12/2019	CADSEK	11:30:00 AM	7.1039	7.1078			N/A
6/12/2019	CADSEK	1:30:00 PM	7.0967	7.1			N/A
6/12/2019	CADSEK	3:30:00 PM	7.0873	7.088			N/A
6/12/2019	CADSGD	9:30:00 AM	1.0259	1.0262			N/A
6/12/2019	CADSGD	11:30:00 AM	1.0251	1.0254			N/A
6/12/2019	CADSGD	1:30:00 PM	1.0254	1.0257			N/A
6/12/2019	CADSGD	3:30:00 PM	1.0254	1.0257			N/A
6/12/2019	CADZAR	9:30:00 AM	11.0425	11.0562			N/A
6/12/2019	CADZAR	11:30:00 AM	11.086	11.0931			N/A
6/12/2019	CADZAR	1:30:00 PM	11.0892	11.1055			N/A
6/12/2019	CADZAR	3:30:00 PM	11.0923	11.1005			N/A
6/12/2019	CHFCZK	9:30:00 AM	22.768	22.782			N/A
6/12/2019	CHFCZK	11:30:00 AM	22.759	22.773			N/A

6/12/2019	CHFCZK	1:30:00 PM	22.756	22.772			N/A
6/12/2019	CHFCZK	3:30:00 PM	22.723	22.732			N/A
6/12/2019	CHFDKK	9:30:00 AM	6.646	6.649			N/A
6/12/2019	CHFDKK	11:30:00 AM	6.639	6.642			N/A
6/12/2019	CHFDKK	1:30:00 PM	6.64	6.643			N/A
6/12/2019	CHFDKK	3:30:00 PM	6.631	6.632			N/A
6/12/2019	CHFDKK.fx	9:30:00 AM	6.6449	6.6501			N/A
6/12/2019	CHFDKK.fx	11:30:00 AM	6.6382	6.6433			N/A
6/12/2019	CHFDKK.fx	1:30:00 PM	6.6385	6.6446			N/A
6/12/2019	CHFDKK.fx	3:30:00 PM	6.6292	6.6329			N/A
6/12/2019	CHFHKD	9:30:00 AM	7.8943	7.8969			N/A
6/12/2019	CHFHKD	11:30:00 AM	7.8851	7.8884			N/A
6/12/2019	CHFHKD	1:30:00 PM	7.8744	7.8781			N/A
6/12/2019	CHFHKD	3:30:00 PM	7.875	7.8696			N/A
6/12/2019	CHFHUF	9:30:00 AM	285.5	285.86			N/A
6/12/2019	CHFHUF	11:30:00 AM	285.8	286.13			N/A
6/12/2019	CHFHUF	1:30:00 PM	285.61	285.98			N/A
6/12/2019	CHFHUF	3:30:00 PM	285.16	285.42			N/A
6/12/2019	CHFJPY	9:30:00 AM	109.32	109.375			N/A
6/12/2019	CHFJPY	11:30:00 AM	109.119	109.177			N/A
6/12/2019	CHFJPY	1:30:00 PM	109.077	109.14			N/A
6/12/2019	CHFJPY	3:30:00 PM	109.04	109.067			N/A
6/12/2019	CHFJPY.fx	9:30:00 AM	109.353	109.341			N/A
6/12/2019	CHFJPY.fx	11:30:00 AM	109.152	109.142			N/A
6/12/2019	CHFJPY.fx	1:30:00 PM	109.109	109.104			N/A
6/12/2019	CHFJPY.fx	3:30:00 PM	109.072	109.039			N/A
6/12/2019	CHFMXN	9:30:00 AM	19.3072	19.3218			N/A
6/12/2019	CHFMXN	11:30:00 AM	19.3079	19.3208			N/A
6/12/2019	CHFMXN	1:30:00 PM	19.2746	19.288			N/A
6/12/2019	CHFMXN	3:30:00 PM	19.2501	19.2491			N/A
6/12/2019	CHFNOK	9:30:00 AM	8.7072	8.7141			N/A
6/12/2019	CHFNOK	11:30:00 AM	8.7043	8.7087			N/A
6/12/2019	CHFNOK	1:30:00 PM	8.6938	8.7006			N/A
6/12/2019	CHFNOK	3:30:00 PM	8.6831	8.6872			N/A

6/12/2019	CHFNOK.fx	9:30:00 AM	8.71067	8.71066			N/A
6/12/2019	CHFNOK.fx	11:30:00 AM	8.70836	8.70512			N/A
6/12/2019	CHFNOK.fx	1:30:00 PM	8.6974	8.69702			N/A
6/12/2019	CHFNOK.fx	3:30:00 PM	8.68563	8.6834			N/A
6/12/2019	CHFPLN	9:30:00 AM	3.7937	3.796			N/A
6/12/2019	CHFPLN	11:30:00 AM	3.7915	3.7941			N/A
6/12/2019	CHFPLN	1:30:00 PM	3.7889	3.792			N/A
6/12/2019	CHFPLN	3:30:00 PM	3.7846	3.7837			N/A
6/12/2019	CHFPLN.fx	9:30:00 AM	3.79126	3.79853			N/A
6/12/2019	CHFPLN.fx	11:30:00 AM	3.78918	3.79625			N/A
6/12/2019	CHFPLN.fx	1:30:00 PM	3.78656	3.79425			N/A
6/12/2019	CHFPLN.fx	3:30:00 PM	3.77954	3.78613			N/A
6/12/2019	CHFSEK	9:30:00 AM	9.5281	9.5319			N/A
6/12/2019	CHFSEK	11:30:00 AM	9.5217	9.5258			N/A
6/12/2019	CHFSEK	1:30:00 PM	9.5027	9.5066			N/A
6/12/2019	CHFSEK	3:30:00 PM	9.4818	9.4814			N/A
6/12/2019	CHFSGD	9:30:00 AM	1.3773	1.3776			N/A
6/12/2019	CHFSGD	11:30:00 AM	1.3744	1.3748			N/A
6/12/2019	CHFSGD	1:30:00 PM	1.3737	1.3742			N/A
6/12/2019	CHFSGD	3:30:00 PM	1.3731	1.3723			N/A
6/12/2019	CHFSGD.fx	9:30:00 AM	1.37748	1.37737			N/A
6/12/2019	CHFSGD.fx	11:30:00 AM	1.37465	1.37455			N/A
6/12/2019	CHFSGD.fx	1:30:00 PM	1.37389	1.37397			N/A
6/12/2019	CHFSGD.fx	3:30:00 PM	1.37293	1.37235			N/A
6/12/2019	CHFZAR	9:30:00 AM	14.8189	14.8278			N/A
6/12/2019	CHFZAR	11:30:00 AM	14.862	14.8631			N/A
6/12/2019	CHFZAR	1:30:00 PM	14.8517	14.865			N/A
6/12/2019	CHFZAR	3:30:00 PM	14.8446	14.8484			N/A
6/12/2019	CZKJPY	9:30:00 AM	4.801	4.804			N/A
6/12/2019	CZKJPY	11:30:00 AM					N/A
6/12/2019	CZKJPY	1:30:00 PM	4.792	4.796			N/A
6/12/2019	CZKJPY	3:30:00 PM	4.799	4.801			N/A
6/12/2019	DAX30.i	9:30:00 AM	12091.87	12087.35			N/A
6/12/2019	DAX30.i	11:30:00 AM	12089.12	12086.37			N/A

6/12/2019	DAX30.i	1:30:00 PM	12110.12	12104.12			N/A
6/12/2019	DAX30.i	3:30:00 PM	12094.37	12086.62			N/A
6/12/2019	DJ30.i	9:30:00 AM					N/A
6/12/2019	DJ30.i	11:30:00 AM					N/A
6/12/2019	DJ30.i	1:30:00 PM					N/A
6/12/2019	DJ30.i	3:30:00 PM					N/A
6/12/2019	DKKJPY	9:30:00 AM					N/A
6/12/2019	DKKJPY	11:30:00 AM					N/A
6/12/2019	DKKJPY	1:30:00 PM					N/A
6/12/2019	DKKJPY	3:30:00 PM	16.46	16.46			N/A
6/12/2019	EURAUD	9:30:00 AM	1.63102	1.63146			N/A
6/12/2019	EURAUD	11:30:00 AM	1.62999	1.63034			N/A
6/12/2019	EURAUD	1:30:00 PM	1.62862	1.62884			N/A
6/12/2019	EURAUD	3:30:00 PM	1.62991	1.62927			N/A
6/12/2019	EURAUD.fx	9:30:00 AM	1.63121	1.63124			N/A
6/12/2019	EURAUD.fx	11:30:00 AM	1.6302	1.63012			N/A
6/12/2019	EURAUD.fx	1:30:00 PM	1.62885	1.62862			N/A
6/12/2019	EURAUD.fx	3:30:00 PM	1.62991	1.62906			N/A
6/12/2019	EURCAD	9:30:00 AM	1.50671	1.50739			N/A
6/12/2019	EURCAD	11:30:00 AM	1.5068	1.50752			N/A
6/12/2019	EURCAD	1:30:00 PM	1.50512	1.50579			N/A
6/12/2019	EURCAD	3:30:00 PM	1.50656	1.50629			N/A
6/12/2019	EURCAD.fx	9:30:00 AM	1.50714	1.50697			N/A
6/12/2019	EURCAD.fx	11:30:00 AM	1.50721	1.5071			N/A
6/12/2019	EURCAD.fx	1:30:00 PM	1.50554	1.50538			N/A
6/12/2019	EURCAD.fx	3:30:00 PM	1.50696	1.50614			N/A
6/12/2019	EURCHF	9:30:00 AM	1.12345	1.12339			N/A
6/12/2019	EURCHF	11:30:00 AM	1.12463	1.12454			N/A
6/12/2019	EURCHF	1:30:00 PM	1.1244	1.1245			N/A
6/12/2019	EURCHF	3:30:00 PM	1.12629	1.126			N/A
6/12/2019	EURCHF.fx	9:30:00 AM	1.12351	1.12333			N/A
6/12/2019	EURCHF.fx	11:30:00 AM	1.12469	1.12448			N/A
6/12/2019	EURCHF.fx	1:30:00 PM	1.12446	1.12444			N/A
6/12/2019	EURCHF.fx	3:30:00 PM	1.12633	1.12595			N/A

6/12/2019	EURCZK	9:30:00 AM	25.564	25.602			N/A
6/12/2019	EURCZK	11:30:00 AM	25.58	25.618			N/A
6/12/2019	EURCZK	1:30:00 PM	25.575	25.613			N/A
6/12/2019	EURCZK	3:30:00 PM	25.571	25.605			N/A
6/12/2019	EURDKK	9:30:00 AM	7.4668	7.4679			N/A
6/12/2019	EURDKK	11:30:00 AM	7.4665	7.4678			N/A
6/12/2019	EURDKK	1:30:00 PM	7.4665	7.4676			N/A
6/12/2019	EURDKK	3:30:00 PM	7.4657	7.4667			N/A
6/12/2019	EURGBP	9:30:00 AM	0.89086	0.89091			N/A
6/12/2019	EURGBP	11:30:00 AM	0.88984	0.88994			N/A
6/12/2019	EURGBP	1:30:00 PM	0.88775	0.88754			N/A
6/12/2019	EURGBP	3:30:00 PM	0.88891	0.88878			N/A
6/12/2019	EURGBP.fx	9:30:00 AM	0.8909	0.89086			N/A
6/12/2019	EURGBP.fx	11:30:00 AM	0.88988	0.88989			N/A
6/12/2019	EURGBP.fx	1:30:00 PM	0.88778	0.88748			N/A
6/12/2019	EURGBP.fx	3:30:00 PM	0.88893	0.88874			N/A
6/12/2019	EURHKD	9:30:00 AM	8.8685	8.8724			N/A
6/12/2019	EURHKD	11:30:00 AM	8.8668	8.8708			N/A
6/12/2019	EURHKD	1:30:00 PM	8.8543	8.8589			N/A
6/12/2019	EURHKD	3:30:00 PM	8.8681	8.8624			N/A
6/12/2019	EURHKD.fx	9:30:00 AM	8.87125	8.86969			N/A
6/12/2019	EURHKD.fx	11:30:00 AM	8.86954	8.86804			N/A
6/12/2019	EURHKD.fx	1:30:00 PM	8.85704	8.85611			N/A
6/12/2019	EURHKD.fx	3:30:00 PM	8.8707	8.86002			N/A
6/12/2019	EURHUF	9:30:00 AM	320.66	321.36			N/A
6/12/2019	EURHUF	11:30:00 AM	321.32	321.93			N/A
6/12/2019	EURHUF	1:30:00 PM	321.1	321.69			N/A
6/12/2019	EURHUF	3:30:00 PM	321.18	321.48			N/A
6/12/2019	EURHUF.fx	9:30:00 AM	320.941	321.1			N/A
6/12/2019	EURHUF.fx	11:30:00 AM	321.589	321.76			N/A
6/12/2019	EURHUF.fx	1:30:00 PM	321.389	321.527			N/A
6/12/2019	EURHUF.fx	3:30:00 PM	321.461	321.496			N/A
6/12/2019	EURJPY	9:30:00 AM	122.846	122.832			N/A
6/12/2019	EURJPY	11:30:00 AM	122.749	122.75			N/A

6/12/2019	EURJPY	1:30:00 PM	122.685	122.687			N/A
6/12/2019	EURJPY	3:30:00 PM	122.828	122.759			N/A
6/12/2019	EURJPY.fx	9:30:00 AM	122.848	122.828			N/A
6/12/2019	EURJPY.fx	11:30:00 AM	122.752	122.745			N/A
6/12/2019	EURJPY.fx	1:30:00 PM	122.689	122.682			N/A
6/12/2019	EURJPY.fx	3:30:00 PM	122.83	122.781			N/A
6/12/2019	EURMXN	9:30:00 AM	21.6907	21.7097			N/A
6/12/2019	EURMXN	11:30:00 AM	21.7174	21.7294			N/A
6/12/2019	EURMXN	1:30:00 PM	21.6753	21.6918			N/A
6/12/2019	EURMXN	3:30:00 PM	21.6806	21.6771			N/A
6/12/2019	EURMXN.fx	9:30:00 AM	21.6992	21.7004			N/A
6/12/2019	EURMXN.fx	11:30:00 AM	21.7256	21.721			N/A
6/12/2019	EURMXN.fx	1:30:00 PM	21.6843	21.6828			N/A
6/12/2019	EURMXN.fx	3:30:00 PM	21.6893	21.6688			N/A
6/12/2019	EURNOK	9:30:00 AM	9.7796	9.7921			N/A
6/12/2019	EURNOK	11:30:00 AM	9.7867	9.7963			N/A
6/12/2019	EURNOK	1:30:00 PM	9.7742	9.7851			N/A
6/12/2019	EURNOK	3:30:00 PM	9.7753	9.7864			N/A
6/12/2019	EURNOK.fx	9:30:00 AM	9.7847	9.78682			N/A
6/12/2019	EURNOK.fx	11:30:00 AM	9.79203	9.79069			N/A
6/12/2019	EURNOK.fx	1:30:00 PM	9.77969	9.77953			N/A
6/12/2019	EURNOK.fx	3:30:00 PM	9.78063	9.78107			N/A
6/12/2019	EURNZD	9:30:00 AM	1.72359	1.72437			N/A
6/12/2019	EURNZD	11:30:00 AM	1.72203	1.72284			N/A
6/12/2019	EURNZD	1:30:00 PM	1.72142	1.72179			N/A
6/12/2019	EURNZD	3:30:00 PM	1.72131	1.72121			N/A
6/12/2019	EURNZD.fx	9:30:00 AM	1.72402	1.72393			N/A
6/12/2019	EURNZD.fx	11:30:00 AM	1.72245	1.72241			N/A
6/12/2019	EURNZD.fx	1:30:00 PM	1.72182	1.72135			N/A
6/12/2019	EURNZD.fx	3:30:00 PM	1.72144	1.72082			N/A
6/12/2019	EURPLN	9:30:00 AM	4.2618	4.2648			N/A
6/12/2019	EURPLN	11:30:00 AM	4.2636	4.2669			N/A
6/12/2019	EURPLN	1:30:00 PM	4.2606	4.2639			N/A
6/12/2019	EURPLN	3:30:00 PM	4.2612	4.2617			N/A

6/12/2019	EURPLN.fx	9:30:00 AM	4.26117	4.26545			N/A
6/12/2019	EURPLN.fx	11:30:00 AM	4.26296	4.26742			N/A
6/12/2019	EURPLN.fx	1:30:00 PM	4.26007	4.2644			N/A
6/12/2019	EURPLN.fx	3:30:00 PM	4.25996	4.26238			N/A
6/12/2019	EURRUB	9:30:00 AM					N/A
6/12/2019	EURRUB	11:30:00 AM					N/A
6/12/2019	EURRUB	1:30:00 PM					N/A
6/12/2019	EURRUB	3:30:00 PM					N/A
6/12/2019	EURSEK	9:30:00 AM	10.7056	10.7104			N/A
6/12/2019	EURSEK	11:30:00 AM	10.7095	10.7139			N/A
6/12/2019	EURSEK	1:30:00 PM	10.6867	10.6907			N/A
6/12/2019	EURSEK	3:30:00 PM	10.6791	10.6833			N/A
6/12/2019	EURSEK.fx	9:30:00 AM	10.70728	10.70864			N/A
6/12/2019	EURSEK.fx	11:30:00 AM	10.7112	10.7122			N/A
6/12/2019	EURSEK.fx	1:30:00 PM	10.68851	10.68892			N/A
6/12/2019	EURSEK.fx	3:30:00 PM	10.68061	10.68175			N/A
6/12/2019	EURSGD	9:30:00 AM	1.5471	1.5478			N/A
6/12/2019	EURSGD	11:30:00 AM	1.5455	1.5463			N/A
6/12/2019	EURSGD	1:30:00 PM	1.5446	1.5454			N/A
6/12/2019	EURSGD	3:30:00 PM	1.5461	1.5454			N/A
6/12/2019	EURSGD.fx	9:30:00 AM	1.54742	1.54742			N/A
6/12/2019	EURSGD.fx	11:30:00 AM	1.54589	1.54591			N/A
6/12/2019	EURSGD.fx	1:30:00 PM	1.54491	1.54497			N/A
6/12/2019	EURSGD.fx	3:30:00 PM	1.54638	1.54512			N/A
6/12/2019	EURUSD	9:30:00 AM	1.13377	1.13381			N/A
6/12/2019	EURUSD	11:30:00 AM	1.13335	1.13335			N/A
6/12/2019	EURUSD	1:30:00 PM	1.13208	1.13212	10	10	N/A
6/12/2019	EURUSD	3:30:00 PM	1.13381	1.13248	2500	2500	N/A
6/12/2019	EURUSD.fx	9:30:00 AM	1.13399	1.1339			N/A
6/12/2019	EURUSD.fx	11:30:00 AM	1.13355	1.13344			N/A
6/12/2019	EURUSD.fx	1:30:00 PM	1.13229	1.13221			N/A
6/12/2019	EURUSD.fx	3:30:00 PM	1.13401	1.13258			N/A
6/12/2019	EURZAR	9:30:00 AM	16.652	16.6655			N/A
6/12/2019	EURZAR	11:30:00 AM	16.7173	16.7181			N/A

6/12/2019	EURZAR	1:30:00 PM	16.7033	16.7217			N/A
6/12/2019	EURZAR	3:30:00 PM	16.7232	16.7261			N/A
6/12/2019	EURZAR.fx	9:30:00 AM	16.65075	16.66679			N/A
6/12/2019	EURZAR.fx	11:30:00 AM	16.71597	16.719			N/A
6/12/2019	EURZAR.fx	1:30:00 PM	16.70249	16.72227			N/A
6/12/2019	EURZAR.fx	3:30:00 PM	16.72274	16.72717			N/A
6/12/2019	GBPAUD	9:30:00 AM	1.83135	1.832			N/A
6/12/2019	GBPAUD	11:30:00 AM	1.83223	1.8329			N/A
6/12/2019	GBPAUD	1:30:00 PM	1.83532	1.83545			N/A
6/12/2019	GBPAUD	3:30:00 PM	1.83404	1.83381			N/A
6/12/2019	GBPAUD.fx	9:30:00 AM	1.83177	1.83159			N/A
6/12/2019	GBPAUD.fx	11:30:00 AM	1.83263	1.83249			N/A
6/12/2019	GBPAUD.fx	1:30:00 PM	1.83572	1.83504			N/A
6/12/2019	GBPAUD.fx	3:30:00 PM	1.83409	1.83342			N/A
6/12/2019	GBPCAD	9:30:00 AM	1.69126	1.69208			N/A
6/12/2019	GBPCAD	11:30:00 AM	1.69333	1.69397			N/A
6/12/2019	GBPCAD	1:30:00 PM	1.69585	1.69614			N/A
6/12/2019	GBPCAD	3:30:00 PM	1.69479	1.69459			N/A
6/12/2019	GBPCAD.fx	9:30:00 AM	1.69165	1.6917			N/A
6/12/2019	GBPCAD.fx	11:30:00 AM	1.69373	1.6936			N/A
6/12/2019	GBPCAD.fx	1:30:00 PM	1.69624	1.69574			N/A
6/12/2019	GBPCAD.fx	3:30:00 PM	1.69517	1.69476			N/A
6/12/2019	GBPCHF	9:30:00 AM	1.26085	1.26122			N/A
6/12/2019	GBPCHF	11:30:00 AM	1.26361	1.26382			N/A
6/12/2019	GBPCHF	1:30:00 PM	1.26681	1.26679			N/A
6/12/2019	GBPCHF	3:30:00 PM	1.26694	1.26692			N/A
6/12/2019	GBPCHF.fx	9:30:00 AM	1.26106	1.26102			N/A
6/12/2019	GBPCHF.fx	11:30:00 AM	1.2638	1.26362			N/A
6/12/2019	GBPCHF.fx	1:30:00 PM	1.26702	1.26658			N/A
6/12/2019	GBPCHF.fx	3:30:00 PM	1.26711	1.26674			N/A
6/12/2019	GBPCZK	9:30:00 AM	28.705	28.725			N/A
6/12/2019	GBPCZK	11:30:00 AM	28.756	28.774			N/A
6/12/2019	GBPCZK	1:30:00 PM	28.825	28.838			N/A
6/12/2019	GBPCZK	3:30:00 PM	28.782	28.794			N/A

6/12/2019	GBPDKK	9:30:00 AM	8.378	8.389			N/A
6/12/2019	GBPDKK	11:30:00 AM	8.387	8.398			N/A
6/12/2019	GBPDKK	1:30:00 PM	8.41	8.418			N/A
6/12/2019	GBPDKK	3:30:00 PM	8.398	8.407			N/A
6/12/2019	GBPDKK.fx	9:30:00 AM	8.3768	8.3893			N/A
6/12/2019	GBPDKK.fx	11:30:00 AM	8.3859	8.3987			N/A
6/12/2019	GBPDKK.fx	1:30:00 PM	8.4084	8.4185			N/A
6/12/2019	GBPDKK.fx	3:30:00 PM	8.396	8.4073			N/A
6/12/2019	GBPHKD	9:30:00 AM	9.9524	9.9574			N/A
6/12/2019	GBPHKD	11:30:00 AM	9.9621	9.9665			N/A
6/12/2019	GBPHKD	1:30:00 PM	9.9736	9.9763			N/A
6/12/2019	GBPHKD	3:30:00 PM	9.9719	9.968			N/A
6/12/2019	GBPHUF	9:30:00 AM	359.95	360.42			N/A
6/12/2019	GBPHUF	11:30:00 AM	361.09	361.55			N/A
6/12/2019	GBPHUF	1:30:00 PM	361.78	362.14			N/A
6/12/2019	GBPHUF	3:30:00 PM	361.21	361.45			N/A
6/12/2019	GBPJPY	9:30:00 AM	137.875	137.905			N/A
6/12/2019	GBPJPY	11:30:00 AM	137.922	137.954			N/A
6/12/2019	GBPJPY	1:30:00 PM	138.209	138.212			N/A
6/12/2019	GBPJPY	3:30:00 PM	138.164	138.15			N/A
6/12/2019	GBPJPY.fx	9:30:00 AM	137.895	137.885			N/A
6/12/2019	GBPJPY.fx	11:30:00 AM	137.94	137.934			N/A
6/12/2019	GBPJPY.fx	1:30:00 PM	138.229	138.191			N/A
6/12/2019	GBPJPY.fx	3:30:00 PM	138.18	138.149			N/A
6/12/2019	GBPMXN	9:30:00 AM	24.345	24.3597			N/A
6/12/2019	GBPMXN	11:30:00 AM	24.3995	24.4068			N/A
6/12/2019	GBPMXN	1:30:00 PM	24.414	24.4235			N/A
6/12/2019	GBPMXN	3:30:00 PM	24.3823	24.3734			N/A
6/12/2019	GBPNOK	9:30:00 AM	10.9791	10.99			N/A
6/12/2019	GBPNOK	11:30:00 AM	10.9988	11.0077			N/A
6/12/2019	GBPNOK	1:30:00 PM	11.0136	11.022			N/A
6/12/2019	GBPNOK	3:30:00 PM	10.9995	11.008			N/A
6/12/2019	GBPNOK.fx	9:30:00 AM	10.98399	10.98515			N/A
6/12/2019	GBPNOK.fx	11:30:00 AM	11.00378	11.00248			N/A

6/12/2019	GBPNOK.fx	1:30:00 PM	11.01838	11.01696			N/A
6/12/2019	GBPNOK.fx	3:30:00 PM	11.00342	11.00283			N/A
6/12/2019	GBPNZD	9:30:00 AM	1.93475	1.93546			N/A
6/12/2019	GBPNZD	11:30:00 AM	1.93524	1.93591			N/A
6/12/2019	GBPNZD	1:30:00 PM	1.93926	1.93928			N/A
6/12/2019	GBPNZD	3:30:00 PM	1.93655	1.93636	100	100	N/A
6/12/2019	GBPNZD.fx	9:30:00 AM	1.93512	1.93508			N/A
6/12/2019	GBPNZD.fx	11:30:00 AM	1.9356	1.93554			N/A
6/12/2019	GBPNZD.fx	1:30:00 PM	1.93962	1.93892			N/A
6/12/2019	GBPNZD.fx	3:30:00 PM	1.93654	1.936			N/A
6/12/2019	GBPPLN	9:30:00 AM	4.7847	4.7863			N/A
6/12/2019	GBPPLN	11:30:00 AM	4.7921	4.794			N/A
6/12/2019	GBPPLN	1:30:00 PM	4.8014	4.802			N/A
6/12/2019	GBPPLN	3:30:00 PM	4.7959	4.7935			N/A
6/12/2019	GBPPLN.fx	9:30:00 AM	4.78248	4.78865			N/A
6/12/2019	GBPPLN.fx	11:30:00 AM	4.79002	4.79604			N/A
6/12/2019	GBPPLN.fx	1:30:00 PM	4.79918	4.80396			N/A
6/12/2019	GBPPLN.fx	3:30:00 PM	4.79075	4.7956			N/A
6/12/2019	GBPSEK	9:30:00 AM	12.0152	12.024			N/A
6/12/2019	GBPSEK	11:30:00 AM	12.0328	12.0415			N/A
6/12/2019	GBPSEK	1:30:00 PM	12.0384	12.0447			N/A
6/12/2019	GBPSEK	3:30:00 PM	12.0137	12.0209			N/A
6/12/2019	GBPSEK.fx	9:30:00 AM	12.01169	12.02747			N/A
6/12/2019	GBPSEK.fx	11:30:00 AM	12.02942	12.04507			N/A
6/12/2019	GBPSEK.fx	1:30:00 PM	12.03472	12.04825			N/A
6/12/2019	GBPSEK.fx	3:30:00 PM	12.01021	12.02451			N/A
6/12/2019	GBPSGD	9:30:00 AM	1.7367	1.7374			N/A
6/12/2019	GBPSGD	11:30:00 AM	1.7369	1.7375			N/A
6/12/2019	GBPSGD	1:30:00 PM	1.7404	1.7406			N/A
6/12/2019	GBPSGD	3:30:00 PM	1.7393	1.7392			N/A
6/12/2019	GBPSGD.fx	9:30:00 AM	1.73483	1.73917			N/A
6/12/2019	GBPSGD.fx	11:30:00 AM	1.73505	1.73934			N/A
6/12/2019	GBPSGD.fx	1:30:00 PM	1.73854	1.74237			N/A
6/12/2019	GBPSGD.fx	3:30:00 PM	1.73711	1.74102			N/A

6/12/2019	GBPUSD	9:30:00 AM	1.27286	1.27282			N/A
6/12/2019	GBPUSD	11:30:00 AM	1.27381	1.27372			N/A
6/12/2019	GBPUSD	1:30:00 PM	1.27569	1.2754			N/A
6/12/2019	GBPUSD	3:30:00 PM	1.27558	1.27438		500	N/A
6/12/2019	GBPUSD.fx	9:30:00 AM	1.27291	1.27275			N/A
6/12/2019	GBPUSD.fx	11:30:00 AM	1.27387	1.27366			N/A
6/12/2019	GBPUSD.fx	1:30:00 PM	1.27573	1.27533			N/A
6/12/2019	GBPUSD.fx	3:30:00 PM	1.27562	1.27444			N/A
6/12/2019	GBPZAR	9:30:00 AM	18.6857	18.7096			N/A
6/12/2019	GBPZAR	11:30:00 AM	18.7822	18.7905			N/A
6/12/2019	GBPZAR	1:30:00 PM	18.8141	18.8393			N/A
6/12/2019	GBPZAR	3:30:00 PM	18.8112	18.8221			N/A
6/12/2019	GBPZAR.fx	9:30:00 AM	18.6934	18.7022			N/A
6/12/2019	GBPZAR.fx	11:30:00 AM	18.7905	18.7829			N/A
6/12/2019	GBPZAR.fx	1:30:00 PM	18.8211	18.8313			N/A
6/12/2019	GBPZAR.fx	3:30:00 PM	18.8168	18.8149			N/A
6/12/2019	GOLD	9:30:00 AM	1336.11	1335.88			N/A
6/12/2019	GOLD	11:30:00 AM	1337.39	1337.36			N/A
6/12/2019	GOLD	1:30:00 PM	1335.28	1335.49			N/A
6/12/2019	GOLD	3:30:00 PM	1335.92	1333.84			N/A
6/12/2019	HKDJPY	9:30:00 AM	13.85	13.86			N/A
6/12/2019	HKDJPY	11:30:00 AM	13.84	13.85			N/A
6/12/2019	HKDJPY	1:30:00 PM					N/A
6/12/2019	HKDJPY	3:30:00 PM	13.86	13.85			N/A
6/12/2019	HKDJPY.fx	9:30:00 AM	13.846	13.85			N/A
6/12/2019	HKDJPY.fx	11:30:00 AM	13.836	13.842			N/A
6/12/2019	HKDJPY.fx	1:30:00 PM	13.849	13.855			N/A
6/12/2019	HKDJPY.fx	3:30:00 PM	13.853	13.848			N/A
6/12/2019	HUFJPY	9:30:00 AM	0.383	0.3833			N/A
6/12/2019	HUFJPY	11:30:00 AM	0.3819	0.3822			N/A
6/12/2019	HUFJPY	1:30:00 PM	0.3819	0.3822			N/A
6/12/2019	HUFJPY	3:30:00 PM	0.3822	0.3826			N/A
6/12/2019	JP225.i	9:30:00 AM	21102.88	21120.38			N/A
6/12/2019	JP225.i	11:30:00 AM	21080.38	21097.88			N/A

6/12/2019	JP225.i	1:30:00 PM	21082.88	21097.88			N/A
6/12/2019	JP225.i	3:30:00 PM	21107.88	21108.72			N/A
6/12/2019	MXNJPY	9:30:00 AM	5.66	5.67			N/A
6/12/2019	MXNJPY	11:30:00 AM	5.65	5.66			N/A
6/12/2019	MXNJPY	1:30:00 PM	5.66	5.67			N/A
6/12/2019	MXNJPY	3:30:00 PM	5.67	5.67			N/A
6/12/2019	NASDAQ.i	9:30:00 AM					N/A
6/12/2019	NASDAQ.i	11:30:00 AM					N/A
6/12/2019	NASDAQ.i	1:30:00 PM					N/A
6/12/2019	NASDAQ.i	3:30:00 PM					N/A
6/12/2019	NOKJPY	9:30:00 AM	12.54	12.57			N/A
6/12/2019	NOKJPY	11:30:00 AM	12.52	12.55			N/A
6/12/2019	NOKJPY	1:30:00 PM	12.53	12.56			N/A
6/12/2019	NOKJPY	3:30:00 PM	12.55	12.57			N/A
6/12/2019	NOKJPY.fx	9:30:00 AM	12.55	12.556			N/A
6/12/2019	NOKJPY.fx	11:30:00 AM	12.535	12.539			N/A
6/12/2019	NOKJPY.fx	1:30:00 PM	12.542	12.548			N/A
6/12/2019	NOKJPY.fx	3:30:00 PM	12.556	12.558			N/A
6/12/2019	NZDCAD	9:30:00 AM	0.87388	0.87453			N/A
6/12/2019	NZDCAD	11:30:00 AM	0.87471	0.87536			N/A
6/12/2019	NZDCAD	1:30:00 PM	0.87428	0.87465			N/A
6/12/2019	NZDCAD	3:30:00 PM	0.87511	0.87514			N/A
6/12/2019	NZDCAD.fx	9:30:00 AM	0.87421	0.8742			N/A
6/12/2019	NZDCAD.fx	11:30:00 AM	0.87504	0.87501			N/A
6/12/2019	NZDCAD.fx	1:30:00 PM	0.87462	0.87431			N/A
6/12/2019	NZDCAD.fx	3:30:00 PM	0.87542	0.87517			N/A
6/12/2019	NZDCHF	9:30:00 AM	0.65132	0.65199			N/A
6/12/2019	NZDCHF	11:30:00 AM	0.65257	0.65324			N/A
6/12/2019	NZDCHF	1:30:00 PM	0.65286	0.65344			N/A
6/12/2019	NZDCHF	3:30:00 PM	0.65404	0.65447			N/A
6/12/2019	NZDCHF.fx	9:30:00 AM	0.65167	0.65163			N/A
6/12/2019	NZDCHF.fx	11:30:00 AM	0.65292	0.65285			N/A
6/12/2019	NZDCHF.fx	1:30:00 PM	0.65321	0.65308			N/A
6/12/2019	NZDCHF.fx	3:30:00 PM	0.65433	0.65421			N/A

6/12/2019	NZDCZK	9:30:00 AM	14.832	14.844			N/A
6/12/2019	NZDCZK	11:30:00 AM	14.855	14.866			N/A
6/12/2019	NZDCZK	1:30:00 PM	14.862	14.869			N/A
6/12/2019	NZDCZK	3:30:00 PM	14.862	14.865			N/A
6/12/2019	NZDDKK	9:30:00 AM					N/A
6/12/2019	NZDDKK	11:30:00 AM					N/A
6/12/2019	NZDDKK	1:30:00 PM	4.336	4.339			N/A
6/12/2019	NZDDKK	3:30:00 PM	4.335	4.337			N/A
6/12/2019	NZDHKD	9:30:00 AM	5.1432	5.145			N/A
6/12/2019	NZDHKD	11:30:00 AM	5.1461	5.1481			N/A
6/12/2019	NZDHKD	1:30:00 PM	5.1421	5.1432			N/A
6/12/2019	NZDHKD	3:30:00 PM	5.1504	5.1455			N/A
6/12/2019	NZDHUF	9:30:00 AM	185.97	186.26			N/A
6/12/2019	NZDHUF	11:30:00 AM	186.52	186.8			N/A
6/12/2019	NZDHUF	1:30:00 PM	186.51	186.74			N/A
6/12/2019	NZDHUF	3:30:00 PM	186.45	186.65			N/A
6/12/2019	NZDJPY	9:30:00 AM	71.224	71.286			N/A
6/12/2019	NZDJPY	11:30:00 AM	71.228	71.298			N/A
6/12/2019	NZDJPY	1:30:00 PM	71.241	71.29			N/A
6/12/2019	NZDJPY	3:30:00 PM	71.33	71.338			N/A
6/12/2019	NZDJPY.fx	9:30:00 AM	71.256	71.253			N/A
6/12/2019	NZDJPY.fx	11:30:00 AM	71.26	71.265			N/A
6/12/2019	NZDJPY.fx	1:30:00 PM	71.273	71.257			N/A
6/12/2019	NZDJPY.fx	3:30:00 PM	71.359	71.34			N/A
6/12/2019	NZDMXN	9:30:00 AM	12.5797	12.5857			N/A
6/12/2019	NZDMXN	11:30:00 AM	12.6047	12.608			N/A
6/12/2019	NZDMXN	1:30:00 PM	12.5895	12.5901			N/A
6/12/2019	NZDMXN	3:30:00 PM	12.5933	12.5785			N/A
6/12/2019	NZDNOK	9:30:00 AM	5.6723	5.6758			N/A
6/12/2019	NZDNOK	11:30:00 AM	5.6811	5.6837			N/A
6/12/2019	NZDNOK	1:30:00 PM	5.6772	5.6801			N/A
6/12/2019	NZDNOK	3:30:00 PM	5.6765	5.6779			N/A
6/12/2019	NZDPLN	9:30:00 AM	2.4715	2.473			N/A
6/12/2019	NZDPLN	11:30:00 AM	2.4746	2.4758			N/A

6/12/2019	NZDPLN	1:30:00 PM	2.4746	2.4756			N/A
6/12/2019	NZDPLN	3:30:00 PM	2.4729	2.4734			N/A
6/12/2019	NZDSEK	9:30:00 AM	6.2053	6.212			N/A
6/12/2019	NZDSEK	11:30:00 AM	6.2129	6.2196			N/A
6/12/2019	NZDSEK	1:30:00 PM	6.2039	6.2086			N/A
6/12/2019	NZDSEK	3:30:00 PM	6.2	6.1989			N/A
6/12/2019	NZDSGD	9:30:00 AM	0.8973	0.898			N/A
6/12/2019	NZDSGD	11:30:00 AM	0.8973	0.8979			N/A
6/12/2019	NZDSGD	1:30:00 PM	0.8972	0.8974			N/A
6/12/2019	NZDSGD	3:30:00 PM	0.8981	0.8977			N/A
6/12/2019	NZDSGD.fx	9:30:00 AM	0.89734	0.89788			N/A
6/12/2019	NZDSGD.fx	11:30:00 AM	0.89723	0.8978			N/A
6/12/2019	NZDSGD.fx	1:30:00 PM	0.89721	0.89754			N/A
6/12/2019	NZDSGD.fx	3:30:00 PM	0.89806	0.89822			N/A
6/12/2019	NZDUSD	9:30:00 AM	0.65766	0.65777			N/A
6/12/2019	NZDUSD	11:30:00 AM	0.65801	0.65808			N/A
6/12/2019	NZDUSD	1:30:00 PM	0.65768	0.65757			N/A
6/12/2019	NZDUSD	3:30:00 PM	0.65882	0.65791			N/A
6/12/2019	NZDUSD.fx	9:30:00 AM	0.65773	0.65777			N/A
6/12/2019	NZDUSD.fx	11:30:00 AM	0.65808	0.65809			N/A
6/12/2019	NZDUSD.fx	1:30:00 PM	0.65775	0.65759			N/A
6/12/2019	NZDUSD.fx	3:30:00 PM	0.65888	0.65812			N/A
6/12/2019	NZDZAR	9:30:00 AM	9.6497	9.6647			N/A
6/12/2019	NZDZAR	11:30:00 AM	9.696	9.7042			N/A
6/12/2019	NZDZAR	1:30:00 PM	9.6945	9.7096			N/A
6/12/2019	NZDZAR	3:30:00 PM	9.7051	9.7087			N/A
6/12/2019	SEKJPY	9:30:00 AM	11.47	11.48			N/A
6/12/2019	SEKJPY	11:30:00 AM	11.46	11.47			N/A
6/12/2019	SEKJPY	1:30:00 PM	11.48	11.49			N/A
6/12/2019	SEKJPY	3:30:00 PM	11.5	11.5			N/A
6/12/2019	SEKJPY.fx	9:30:00 AM	11.463	11.48			N/A
6/12/2019	SEKJPY.fx	11:30:00 AM	11.45	11.468			N/A
6/12/2019	SEKJPY.fx	1:30:00 PM	11.469	11.487			N/A
6/12/2019	SEKJPY.fx	3:30:00 PM	11.489	11.505			N/A

6/12/2019	SGDJPY	9:30:00 AM	79.35	79.38			N/A
6/12/2019	SGDJPY	11:30:00 AM	79.41	79.4			N/A
6/12/2019	SGDJPY	1:30:00 PM	79.4	79.41			N/A
6/12/2019	SGDJPY	3:30:00 PM	79.43	79.42			N/A
6/12/2019	SILVER	9:30:00 AM	14.65	15.01			N/A
6/12/2019	SILVER	11:30:00 AM	14.66	15.03			N/A
6/12/2019	SILVER	1:30:00 PM	14.61	14.98			N/A
6/12/2019	SILVER	3:30:00 PM	14.64	14.99			N/A
6/12/2019	SPX500.i	9:30:00 AM	2879.91	2880.46			N/A
6/12/2019	SPX500.i	11:30:00 AM	2879.16	2879.71			N/A
6/12/2019	SPX500.i	1:30:00 PM	2878.66	2879.46			N/A
6/12/2019	SPX500.i	3:30:00 PM	2883.04	2880.78			N/A
6/12/2019	UK100.i	9:30:00 AM	7369.12	7370.12			N/A
6/12/2019	UK100.i	11:30:00 AM	7366.2	7366.2			N/A
6/12/2019	UK100.i	1:30:00 PM	7351.7	7351.7			N/A
6/12/2019	UK100.i	3:30:00 PM	7342.7	7340.95			N/A
6/12/2019	USDCAD	9:30:00 AM	1.32909	1.32908			N/A
6/12/2019	USDCAD	11:30:00 AM	1.32967	1.32973			N/A
6/12/2019	USDCAD	1:30:00 PM	1.32964	1.32969			N/A
6/12/2019	USDCAD	3:30:00 PM	1.32947	1.3287			N/A
6/12/2019	USDCAD.fx	9:30:00 AM	1.32913	1.32904			N/A
6/12/2019	USDCAD.fx	11:30:00 AM	1.3297	1.3297			N/A
6/12/2019	USDCAD.fx	1:30:00 PM	1.32969	1.32965			N/A
6/12/2019	USDCAD.fx	3:30:00 PM	1.32939	1.32868			N/A
6/12/2019	USDCHF	9:30:00 AM	0.99072	0.99069			N/A
6/12/2019	USDCHF	11:30:00 AM	0.99207	0.99211			N/A
6/12/2019	USDCHF	1:30:00 PM	0.9931	0.99315			N/A
6/12/2019	USDCHF	3:30:00 PM	0.99416	0.993			N/A
6/12/2019	USDCHF.fx	9:30:00 AM	0.99076	0.99063			N/A
6/12/2019	USDCHF.fx	11:30:00 AM	0.99212	0.99205			N/A
6/12/2019	USDCHF.fx	1:30:00 PM	0.99316	0.99309			N/A
6/12/2019	USDCHF.fx	3:30:00 PM	0.99412	0.99295			N/A
6/12/2019	USDCZK	9:30:00 AM	22.57	22.592			N/A
6/12/2019	USDCZK	11:30:00 AM	22.591	22.613			N/A

6/12/2019	USDCZK	1:30:00 PM	22.612	22.634			N/A
6/12/2019	USDCZK	3:30:00 PM	22.602	22.597			N/A
6/12/2019	USDCZK.fx	9:30:00 AM	22.579	22.5832			N/A
6/12/2019	USDCZK.fx	11:30:00 AM	22.5993	22.6032			N/A
6/12/2019	USDCZK.fx	1:30:00 PM	22.6206	22.6255			N/A
6/12/2019	USDCZK.fx	3:30:00 PM	22.6095	22.5887			N/A
6/12/2019	USDDKK	9:30:00 AM	6.585	6.5884			N/A
6/12/2019	USDDKK	11:30:00 AM	6.5875	6.591			N/A
6/12/2019	USDDKK	1:30:00 PM	6.5949	6.5984			N/A
6/12/2019	USDDKK	3:30:00 PM	6.5926	6.5882			N/A
6/12/2019	USDDKK.fx	9:30:00 AM	6.58546	6.58639			N/A
6/12/2019	USDDKK.fx	11:30:00 AM	6.58812	6.589			N/A
6/12/2019	USDDKK.fx	1:30:00 PM	6.59535	6.59642			N/A
6/12/2019	USDDKK.fx	3:30:00 PM	6.59274	6.58613			N/A
6/12/2019	USDHKD	9:30:00 AM	7.8229	7.8221			N/A
6/12/2019	USDHKD	11:30:00 AM	7.8243	7.8243			N/A
6/12/2019	USDHKD	1:30:00 PM	7.822	7.8222			N/A
6/12/2019	USDHKD	3:30:00 PM	7.8226	7.8228			N/A
6/12/2019	USDHKD.fx	9:30:00 AM	7.82283	7.82229			N/A
6/12/2019	USDHKD.fx	11:30:00 AM	7.82435	7.82436			N/A
6/12/2019	USDHKD.fx	1:30:00 PM	7.82198	7.82212			N/A
6/12/2019	USDHKD.fx	3:30:00 PM	7.82248	7.82285			N/A
6/12/2019	USDHUF	9:30:00 AM	282.88	283.34			N/A
6/12/2019	USDHUF	11:30:00 AM	283.58	284.02			N/A
6/12/2019	USDHUF	1:30:00 PM	283.67	284.13			N/A
6/12/2019	USDHUF	3:30:00 PM	283.45	283.67			N/A
6/12/2019	USDHUF.fx	9:30:00 AM	283.073	283.145			N/A
6/12/2019	USDHUF.fx	11:30:00 AM	283.781	283.815			N/A
6/12/2019	USDHUF.fx	1:30:00 PM	283.875	283.927			N/A
6/12/2019	USDHUF.fx	3:30:00 PM	283.852	283.467			N/A
6/12/2019	USDINR	9:30:00 AM	64.4	74.38			N/A
6/12/2019	USDINR	11:30:00 AM	64.34	74.33			N/A
6/12/2019	USDINR	1:30:00 PM					N/A
6/12/2019	USDINR	3:30:00 PM					N/A

6/12/2019	USDJPY	9:30:00 AM	108.335	108.33			N/A
6/12/2019	USDJPY	11:30:00 AM	108.287	108.286			N/A
6/12/2019	USDJPY	1:30:00 PM	108.354	108.358			N/A
6/12/2019	USDJPY	3:30:00 PM	108.399	108.308			N/A
6/12/2019	USDJPY.fx	9:30:00 AM	108.34	108.323			N/A
6/12/2019	USDJPY.fx	11:30:00 AM	108.292	108.279			N/A
6/12/2019	USDJPY.fx	1:30:00 PM	108.36	108.35			N/A
6/12/2019	USDJPY.fx	3:30:00 PM	108.398	108.301			N/A
6/12/2019	USDMXN	9:30:00 AM	19.134	19.141			N/A
6/12/2019	USDMXN	11:30:00 AM	19.163	19.167			N/A
6/12/2019	USDMXN	1:30:00 PM	19.148	19.154			N/A
6/12/2019	USDMXN	3:30:00 PM	19.131	19.117			N/A
6/12/2019	USDMXN.f	9:30:00 AM					N/A
6/12/2019	USDMXN.f	11:30:00 AM					N/A
6/12/2019	USDMXN.f	1:30:00 PM					N/A
6/12/2019	USDMXN.f	3:30:00 PM					N/A
6/12/2019	USDNOK	9:30:00 AM	8.6261	8.6345			N/A
6/12/2019	USDNOK	11:30:00 AM	8.6357	8.6415			N/A
6/12/2019	USDNOK	1:30:00 PM	8.6338	8.6419			N/A
6/12/2019	USDNOK	3:30:00 PM	8.6328	8.6294			N/A
6/12/2019	USDNOK.fx	9:30:00 AM	8.62988	8.63014			N/A
6/12/2019	USDNOK.fx	11:30:00 AM	8.63968	8.6367			N/A
6/12/2019	USDNOK.fx	1:30:00 PM	8.63776	8.63723			N/A
6/12/2019	USDNOK.fx	3:30:00 PM	8.63614	8.6247			N/A
6/12/2019	USDPLN	9:30:00 AM	3.7591	3.7604			N/A
6/12/2019	USDPLN	11:30:00 AM	3.7622	3.7635			N/A
6/12/2019	USDPLN	1:30:00 PM	3.7637	3.7651			N/A
6/12/2019	USDPLN	3:30:00 PM	3.7631	3.7574			N/A
6/12/2019	USDPLN.fx	9:30:00 AM	3.75828	3.76121			N/A
6/12/2019	USDPLN.fx	11:30:00 AM	3.76145	3.76421			N/A
6/12/2019	USDPLN.fx	1:30:00 PM	3.76288	3.76583			N/A
6/12/2019	USDPLN.fx	3:30:00 PM	3.76136	3.75837			N/A
6/12/2019	USDRUB	9:30:00 AM					N/A
6/12/2019	USDRUB	11:30:00 AM					N/A

6/12/2019	USDRUB	1:30:00 PM					N/A
6/12/2019	USDRUB	3:30:00 PM					N/A
6/12/2019	USDSEK	9:30:00 AM	9.441	9.4449			N/A
6/12/2019	USDSEK	11:30:00 AM	9.4476	9.4514			N/A
6/12/2019	USDSEK	1:30:00 PM	9.4375	9.4417			N/A
6/12/2019	USDSEK	3:30:00 PM	9.428	9.4211			N/A
6/12/2019	USDSEK.fx	9:30:00 AM	9.44344	9.44306			N/A
6/12/2019	USDSEK.fx	11:30:00 AM	9.45037	9.44948			N/A
6/12/2019	USDSEK.fx	1:30:00 PM	9.44017	9.43978			N/A
6/12/2019	USDSEK.fx	3:30:00 PM	9.43003	9.41918			N/A
6/12/2019	USDSGD	9:30:00 AM	1.3645	1.3649			N/A
6/12/2019	USDSGD	11:30:00 AM	1.3637	1.364			N/A
6/12/2019	USDSGD	1:30:00 PM	1.3644	1.3643			N/A
6/12/2019	USDSGD	3:30:00 PM	1.3639	1.3635			N/A
6/12/2019	USDSGD.fx	9:30:00 AM	1.36442	1.36488			N/A
6/12/2019	USDSGD.fx	11:30:00 AM	1.36362	1.364			N/A
6/12/2019	USDSGD.fx	1:30:00 PM	1.36429	1.36468			N/A
6/12/2019	USDSGD.fx	3:30:00 PM	1.36381	1.36354			N/A
6/12/2019	USDZAR	9:30:00 AM	14.6835	14.6968			N/A
6/12/2019	USDZAR	11:30:00 AM	14.7471	14.7502			N/A
6/12/2019	USDZAR	1:30:00 PM	14.7513	14.7692			N/A
6/12/2019	USDZAR	3:30:00 PM	14.7534	14.7539			N/A
6/12/2019	USDZAR.fx	9:30:00 AM					N/A
6/12/2019	USDZAR.fx	11:30:00 AM					N/A
6/12/2019	USDZAR.fx	1:30:00 PM					N/A
6/12/2019	USDZAR.fx	3:30:00 PM					N/A
6/12/2019	XAUUSD	9:30:00 AM	1336.13	1335.88			N/A
6/12/2019	XAUUSD	11:30:00 AM	1337.39	1337.35			N/A
6/12/2019	XAUUSD	1:30:00 PM	1335.29	1335.49			N/A
6/12/2019	XAUUSD	3:30:00 PM	1335.93	1333.83			N/A
6/12/2019	ZARJPY	9:30:00 AM	7.36	7.37			N/A
6/12/2019	ZARJPY	11:30:00 AM	7.33	7.34			N/A
6/12/2019	ZARJPY	1:30:00 PM					N/A
6/12/2019	ZARJPY	3:30:00 PM	7.33	7.34			N/A

6/12/2019	ZARJPY.fx	9:30:00 AM	7.372	7.375			N/A
6/12/2019	ZARJPY.fx	11:30:00 AM	7.344	7.34			N/A
6/12/2019	ZARJPY.fx	1:30:00 PM	7.339	7.343			N/A
6/12/2019	ZARJPY.fx	3:30:00 PM	7.346	7.341			N/A
6/13/2019	#AA	9:30:00 AM					N/A
6/13/2019	#AA	11:30:00 AM					N/A
6/13/2019	#AA	1:30:00 PM					N/A
6/13/2019	#AA	3:30:00 PM					N/A
6/13/2019	#AABA	9:30:00 AM					N/A
6/13/2019	#AABA	11:30:00 AM					N/A
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6/13/2019	#AABA	3:30:00 PM					N/A
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6/13/2019	#AAL	1:30:00 PM					N/A
6/13/2019	#AAL	3:30:00 PM					N/A
6/13/2019	#AAPL	9:30:00 AM					N/A
6/13/2019	#AAPL	11:30:00 AM					N/A
6/13/2019	#AAPL	1:30:00 PM					N/A
6/13/2019	#AAPL	3:30:00 PM					N/A
6/13/2019	#ADBE	9:30:00 AM					N/A
6/13/2019	#ADBE	11:30:00 AM					N/A
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6/13/2019	#AIG	1:30:00 PM					N/A
6/13/2019	#AIG	3:30:00 PM					N/A
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6/13/2019	#AMD	1:30:00 PM					N/A
6/13/2019	#AMD	3:30:00 PM					N/A
6/13/2019	#AMZN	9:30:00 AM					N/A
6/13/2019	#AMZN	11:30:00 AM					N/A

6/13/2019	#AMZN	1:30:00 PM					N/A
6/13/2019	#AMZN	3:30:00 PM					N/A
6/13/2019	#AXP	9:30:00 AM					N/A
6/13/2019	#AXP	11:30:00 AM					N/A
6/13/2019	#AXP	1:30:00 PM					N/A
6/13/2019	#AXP	3:30:00 PM					N/A
6/13/2019	#BA	9:30:00 AM					N/A
6/13/2019	#BA	11:30:00 AM					N/A
6/13/2019	#BA	1:30:00 PM					N/A
6/13/2019	#BA	3:30:00 PM					N/A
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6/13/2019	#BABA	11:30:00 AM					N/A
6/13/2019	#BABA	1:30:00 PM					N/A
6/13/2019	#BABA	3:30:00 PM					N/A
6/13/2019	#BAC	9:30:00 AM					N/A
6/13/2019	#BAC	11:30:00 AM					N/A
6/13/2019	#BAC	1:30:00 PM					N/A
6/13/2019	#BAC	3:30:00 PM					N/A
6/13/2019	#BARC	9:30:00 AM					N/A
6/13/2019	#BARC	11:30:00 AM					N/A
6/13/2019	#BARC	1:30:00 PM					N/A
6/13/2019	#BARC	3:30:00 PM					N/A
6/13/2019	#BHP	9:30:00 AM					N/A
6/13/2019	#BHP	11:30:00 AM					N/A
6/13/2019	#BHP	1:30:00 PM					N/A
6/13/2019	#BHP	3:30:00 PM					N/A
6/13/2019	#BIDU	9:30:00 AM					N/A
6/13/2019	#BIDU	11:30:00 AM					N/A
6/13/2019	#BIDU	1:30:00 PM					N/A
6/13/2019	#BIDU	3:30:00 PM					N/A
6/13/2019	#Bitcoin	9:30:00 AM	8085.1	8117.21			N/A
6/13/2019	#Bitcoin	11:30:00 AM	8102.1	8136.95			N/A
6/13/2019	#Bitcoin	1:30:00 PM	8069.6	8092.8			N/A
6/13/2019	#Bitcoin	3:30:00 PM	8112.8	8147.4			N/A

6/13/2019	#BK	9:30:00 AM					N/A
6/13/2019	#BK	11:30:00 AM					N/A
6/13/2019	#BK	1:30:00 PM					N/A
6/13/2019	#BK	3:30:00 PM					N/A
6/13/2019	#BLT	9:30:00 AM					N/A
6/13/2019	#BLT	11:30:00 AM					N/A
6/13/2019	#BLT	1:30:00 PM					N/A
6/13/2019	#BLT	3:30:00 PM					N/A
6/13/2019	#BP	9:30:00 AM					N/A
6/13/2019	#BP	11:30:00 AM					N/A
6/13/2019	#BP	1:30:00 PM					N/A
6/13/2019	#BP	3:30:00 PM					N/A
6/13/2019	#BTA	9:30:00 AM					N/A
6/13/2019	#BTA	11:30:00 AM					N/A
6/13/2019	#BTA	1:30:00 PM					N/A
6/13/2019	#BTA	3:30:00 PM					N/A
6/13/2019	#C	9:30:00 AM					N/A
6/13/2019	#C	11:30:00 AM					N/A
6/13/2019	#C	1:30:00 PM					N/A
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6/13/2019	#XOM	9:30:00 AM					N/A
6/13/2019	#XOM	11:30:00 AM					N/A
6/13/2019	#XOM	1:30:00 PM					N/A
6/13/2019	#XOM	3:30:00 PM					N/A
6/13/2019	#YHOO	9:30:00 AM					N/A
6/13/2019	#YHOO	11:30:00 AM					N/A

6/13/2019	#YHOO	1:30:00 PM					N/A
6/13/2019	#YHOO	3:30:00 PM					N/A
6/13/2019	#ZNGA	9:30:00 AM					N/A
6/13/2019	#ZNGA	11:30:00 AM					N/A
6/13/2019	#ZNGA	1:30:00 PM					N/A
6/13/2019	#ZNGA	3:30:00 PM					N/A
6/13/2019	AUDCAD	9:30:00 AM	0.92016	0.92077			N/A
6/13/2019	AUDCAD	11:30:00 AM	0.9204	0.9211			N/A
6/13/2019	AUDCAD	1:30:00 PM	0.9189	0.91958			N/A
6/13/2019	AUDCAD	3:30:00 PM	0.92014	0.92053			N/A
6/13/2019	AUDCAD.fx	9:30:00 AM	0.92049	0.92043			N/A
6/13/2019	AUDCAD.fx	11:30:00 AM	0.92074	0.92073			N/A
6/13/2019	AUDCAD.fx	1:30:00 PM	0.91923	0.91923			N/A
6/13/2019	AUDCAD.fx	3:30:00 PM	0.92047	0.92023			N/A
6/13/2019	AUDCHF	9:30:00 AM	0.68705	0.6876			N/A
6/13/2019	AUDCHF	11:30:00 AM	0.68615	0.68683			N/A
6/13/2019	AUDCHF	1:30:00 PM	0.68579	0.68647			N/A
6/13/2019	AUDCHF	3:30:00 PM	0.68584	0.68651			N/A
6/13/2019	AUDCHF.fx	9:30:00 AM	0.68739	0.68725			N/A
6/13/2019	AUDCHF.fx	11:30:00 AM	0.68649	0.68648			N/A
6/13/2019	AUDCHF.fx	1:30:00 PM	0.68613	0.68611			N/A
6/13/2019	AUDCHF.fx	3:30:00 PM	0.68618	0.68617			N/A
6/13/2019	AUDCZK	9:30:00 AM	15.622	15.636			N/A
6/13/2019	AUDCZK	11:30:00 AM	15.63	15.647			N/A
6/13/2019	AUDCZK	1:30:00 PM	15.625	15.642			N/A
6/13/2019	AUDCZK	3:30:00 PM	15.644	15.659			N/A
6/13/2019	AUDDKK	9:30:00 AM	4.563	4.5674			N/A
6/13/2019	AUDDKK	11:30:00 AM	4.5672	4.5716			N/A
6/13/2019	AUDDKK	1:30:00 PM	4.5659	4.5706			N/A
6/13/2019	AUDDKK	3:30:00 PM	4.5716	4.5761			N/A
6/13/2019	AUDHKD	9:30:00 AM	5.4032	5.407			N/A
6/13/2019	AUDHKD	11:30:00 AM	5.4055	5.4094			N/A
6/13/2019	AUDHKD	1:30:00 PM	5.4031	5.4065			N/A
6/13/2019	AUDHKD	3:30:00 PM	5.4086	5.4124			N/A

6/13/2019	AUDHUF	9:30:00 AM	196.76	196.97			N/A
6/13/2019	AUDHUF	11:30:00 AM	196.91	197.15			N/A
6/13/2019	AUDHUF	1:30:00 PM	196.93	197.16			N/A
6/13/2019	AUDHUF	3:30:00 PM	197	197.16			N/A
6/13/2019	AUDJPY	9:30:00 AM	74.805	74.86			N/A
6/13/2019	AUDJPY	11:30:00 AM	74.857	74.927			N/A
6/13/2019	AUDJPY	1:30:00 PM	74.878	74.943			N/A
6/13/2019	AUDJPY	3:30:00 PM	74.927	74.994			N/A
6/13/2019	AUDJPY.fx	9:30:00 AM	74.839	74.824			N/A
6/13/2019	AUDJPY.fx	11:30:00 AM	74.891	74.891			N/A
6/13/2019	AUDJPY.fx	1:30:00 PM	74.912	74.908			N/A
6/13/2019	AUDJPY.fx	3:30:00 PM	74.96	74.959			N/A
6/13/2019	AUDMXN	9:30:00 AM	13.2474	13.2567			N/A
6/13/2019	AUDMXN	11:30:00 AM	13.2473	13.2564			N/A
6/13/2019	AUDMXN	1:30:00 PM	13.2347	13.2424			N/A
6/13/2019	AUDMXN	3:30:00 PM	13.2566	13.2609			N/A
6/13/2019	AUDNOK	9:30:00 AM	5.9767	5.9806			N/A
6/13/2019	AUDNOK	11:30:00 AM	5.981	5.9859			N/A
6/13/2019	AUDNOK	1:30:00 PM	5.9776	5.9826			N/A
6/13/2019	AUDNOK	3:30:00 PM	5.982	5.987			N/A
6/13/2019	AUDNOK.fx	9:30:00 AM	5.9783	5.9789			N/A
6/13/2019	AUDNOK.fx	11:30:00 AM	5.9826	5.9842			N/A
6/13/2019	AUDNOK.fx	1:30:00 PM	5.9792	5.9808			N/A
6/13/2019	AUDNOK.fx	3:30:00 PM	5.9836	5.9853			N/A
6/13/2019	AUDNZD	9:30:00 AM	1.0505	1.05139			N/A
6/13/2019	AUDNZD	11:30:00 AM	1.05123	1.05214			N/A
6/13/2019	AUDNZD	1:30:00 PM	1.05147	1.05234			N/A
6/13/2019	AUDNZD	3:30:00 PM	1.05266	1.05349			N/A
6/13/2019	AUDNZD.fx	9:30:00 AM	1.05096	1.05093			N/A
6/13/2019	AUDNZD.fx	11:30:00 AM	1.05166	1.05168			N/A
6/13/2019	AUDNZD.fx	1:30:00 PM	1.05191	1.05188			N/A
6/13/2019	AUDNZD.fx	3:30:00 PM	1.05304	1.05305			N/A
6/13/2019	AUDPLN	9:30:00 AM	2.6004	2.6036			N/A
6/13/2019	AUDPLN	11:30:00 AM	2.6055	2.6084			N/A

6/13/2019	AUDPLN	1:30:00 PM	2.6049	2.6081			N/A
6/13/2019	AUDPLN	3:30:00 PM	2.6062	2.609			N/A
6/13/2019	AUDSEK	9:30:00 AM	6.541	6.544			N/A
6/13/2019	AUDSEK	11:30:00 AM	6.5496	6.5524			N/A
6/13/2019	AUDSEK	1:30:00 PM	6.5417	6.5452			N/A
6/13/2019	AUDSEK	3:30:00 PM	6.5523	6.5549			N/A
6/13/2019	AUDSEK.fx	9:30:00 AM	6.5364	6.5485			N/A
6/13/2019	AUDSEK.fx	11:30:00 AM	6.545	6.557			N/A
6/13/2019	AUDSEK.fx	1:30:00 PM	6.537	6.5496			N/A
6/13/2019	AUDSEK.fx	3:30:00 PM	6.5475	6.5593			N/A
6/13/2019	AUDSGD	9:30:00 AM	0.9435	0.9438			N/A
6/13/2019	AUDSGD	11:30:00 AM	0.9441	0.9443			N/A
6/13/2019	AUDSGD	1:30:00 PM	0.9435	0.9438			N/A
6/13/2019	AUDSGD	3:30:00 PM	0.9444	0.9447			N/A
6/13/2019	AUDSGD.fx	9:30:00 AM	0.94361	0.94371			N/A
6/13/2019	AUDSGD.fx	11:30:00 AM	0.94416	0.94426			N/A
6/13/2019	AUDSGD.fx	1:30:00 PM	0.94363	0.94372			N/A
6/13/2019	AUDSGD.fx	3:30:00 PM	0.9445	0.94457			N/A
6/13/2019	AUDUSD	9:30:00 AM	0.69088	0.69095			N/A
6/13/2019	AUDUSD	11:30:00 AM	0.69106	0.6912			N/A
6/13/2019	AUDUSD	1:30:00 PM	0.69061	0.69074			N/A
6/13/2019	AUDUSD	3:30:00 PM	0.6914	0.69149			N/A
6/13/2019	AUDUSD.fx	9:30:00 AM	0.69093	0.69089			N/A
6/13/2019	AUDUSD.fx	11:30:00 AM	0.69112	0.69114			N/A
6/13/2019	AUDUSD.fx	1:30:00 PM	0.69066	0.69068			N/A
6/13/2019	AUDUSD.fx	3:30:00 PM	0.69145	0.69145			N/A
6/13/2019	AUDZAR	9:30:00 AM	10.2822	10.2933			N/A
6/13/2019	AUDZAR	11:30:00 AM	10.247	10.2584			N/A
6/13/2019	AUDZAR	1:30:00 PM	10.2527	10.2649			N/A
6/13/2019	AUDZAR	3:30:00 PM	10.276	10.286			N/A
6/13/2019	AUS200.i	9:30:00 AM	6543.1	6545.6			N/A
6/13/2019	AUS200.i	11:30:00 AM	6560.93	6563.63			N/A
6/13/2019	AUS200.i	1:30:00 PM	6566.53	6569.63			N/A
6/13/2019	AUS200.i	3:30:00 PM	6560.13	6562.93			N/A

6/13/2019	BCHUSD	9:30:00 AM	406.32	408.29			N/A
6/13/2019	BCHUSD	11:30:00 AM	411.48	412.91			N/A
6/13/2019	BCHUSD	1:30:00 PM	408.1	409.6			N/A
6/13/2019	BCHUSD	3:30:00 PM	410.95	412.79			N/A
6/13/2019	CADCHF	9:30:00 AM	0.74651	0.74695			N/A
6/13/2019	CADCHF	11:30:00 AM	0.7452	0.74591			N/A
6/13/2019	CADCHF	1:30:00 PM	0.74607	0.74678			N/A
6/13/2019	CADCHF	3:30:00 PM	0.74539	0.74578			N/A
6/13/2019	CADCHF.fx	9:30:00 AM	0.74684	0.7466			N/A
6/13/2019	CADCHF.fx	11:30:00 AM	0.74554	0.74556			N/A
6/13/2019	CADCHF.fx	1:30:00 PM	0.74641	0.74642			N/A
6/13/2019	CADCHF.fx	3:30:00 PM	0.74571	0.74543			N/A
6/13/2019	CADCZK	9:30:00 AM	16.974	16.989			N/A
6/13/2019	CADCZK	11:30:00 AM	16.978	16.995			N/A
6/13/2019	CADCZK	1:30:00 PM	17.001	17.018			N/A
6/13/2019	CADCZK	3:30:00 PM	17.006	17.015			N/A
6/13/2019	CADDKK	9:30:00 AM					N/A
6/13/2019	CADDKK	11:30:00 AM					N/A
6/13/2019	CADDKK	1:30:00 PM					N/A
6/13/2019	CADDKK	3:30:00 PM	4.968	4.972			N/A
6/13/2019	CADHKD	9:30:00 AM	5.8712	5.8744			N/A
6/13/2019	CADHKD	11:30:00 AM	5.8715	5.8755			N/A
6/13/2019	CADHKD	1:30:00 PM	5.8785	5.8823			N/A
6/13/2019	CADHKD	3:30:00 PM	5.8789	5.8816			N/A
6/13/2019	CADHUF	9:30:00 AM	213.84	213.95			N/A
6/13/2019	CADHUF	11:30:00 AM	213.93	214.09			N/A
6/13/2019	CADHUF	1:30:00 PM	214.3	214.47			N/A
6/13/2019	CADHUF	3:30:00 PM	214.15	214.25			N/A
6/13/2019	CADJPY	9:30:00 AM	81.278	81.32			N/A
6/13/2019	CADJPY	11:30:00 AM	81.303	81.369			N/A
6/13/2019	CADJPY	1:30:00 PM	81.459	81.527			N/A
6/13/2019	CADJPY	3:30:00 PM	81.429	81.466			N/A
6/13/2019	CADJPY.fx	9:30:00 AM	81.311	81.284			N/A
6/13/2019	CADJPY.fx	11:30:00 AM	81.336	81.335			N/A

6/13/2019	CADJPY.fx	1:30:00 PM	81.492	81.492			N/A
6/13/2019	CADJPY.fx	3:30:00 PM	81.463	81.431			N/A
6/13/2019	CADMXN	9:30:00 AM	14.3939	14.4039			N/A
6/13/2019	CADMXN	11:30:00 AM	14.3884	14.3999			N/A
6/13/2019	CADMXN	1:30:00 PM	14.3984	14.4088			N/A
6/13/2019	CADMXN	3:30:00 PM	14.405	14.4144			N/A
6/13/2019	CADNOK	9:30:00 AM	6.4921	6.4963			N/A
6/13/2019	CADNOK	11:30:00 AM	6.4947	6.4996			N/A
6/13/2019	CADNOK	1:30:00 PM	6.5021	6.5063			N/A
6/13/2019	CADNOK	3:30:00 PM	6.4985	6.5027			N/A
6/13/2019	CADPLN	9:30:00 AM	2.8251	2.8269			N/A
6/13/2019	CADPLN	11:30:00 AM	2.8297	2.8313			N/A
6/13/2019	CADPLN	1:30:00 PM	2.8342	2.836			N/A
6/13/2019	CADPLN	3:30:00 PM	2.8312	2.833			N/A
6/13/2019	CADSEK	9:30:00 AM	7.1042	7.1071			N/A
6/13/2019	CADSEK	11:30:00 AM	7.1113	7.1152			N/A
6/13/2019	CADSEK	1:30:00 PM	7.1151	7.1185			N/A
6/13/2019	CADSEK	3:30:00 PM	7.1183	7.1202			N/A
6/13/2019	CADSGD	9:30:00 AM	1.0243	1.0246			N/A
6/13/2019	CADSGD	11:30:00 AM	1.0248	1.0251			N/A
6/13/2019	CADSGD	1:30:00 PM	1.0259	1.0262			N/A
6/13/2019	CADSGD	3:30:00 PM	1.026	1.0262			N/A
6/13/2019	CADZAR	9:30:00 AM	11.1721	11.1853			N/A
6/13/2019	CADZAR	11:30:00 AM	11.1299	11.1431			N/A
6/13/2019	CADZAR	1:30:00 PM	11.1544	11.1691			N/A
6/13/2019	CADZAR	3:30:00 PM	11.1693	11.1784			N/A
6/13/2019	CHFCZK	9:30:00 AM	22.74	22.747			N/A
6/13/2019	CHFCZK	11:30:00 AM	22.778	22.794			N/A
6/13/2019	CHFCZK	1:30:00 PM	22.782	22.798			N/A
6/13/2019	CHFCZK	3:30:00 PM	22.808	22.826			N/A
6/13/2019	CHFDKK	9:30:00 AM	6.641	6.643			N/A
6/13/2019	CHFDKK	11:30:00 AM	6.655	6.657			N/A
6/13/2019	CHFDKK	1:30:00 PM					N/A
6/13/2019	CHFDKK	3:30:00 PM	6.664	6.667			N/A

6/13/2019	CHFDKK.fx	9:30:00 AM	6.6392	6.6444			N/A
6/13/2019	CHFDKK.fx	11:30:00 AM	6.6533	6.6587			N/A
6/13/2019	CHFDKK.fx	1:30:00 PM	6.6548	6.6611			N/A
6/13/2019	CHFDKK.fx	3:30:00 PM	6.6627	6.6691			N/A
6/13/2019	CHFHKD	9:30:00 AM	7.8645	7.8673			N/A
6/13/2019	CHFHKD	11:30:00 AM	7.8766	7.8805			N/A
6/13/2019	CHFHKD	1:30:00 PM	7.877	7.8803			N/A
6/13/2019	CHFHKD	3:30:00 PM	7.8859	7.8888			N/A
6/13/2019	CHFHUF	9:30:00 AM	286.32	286.68			N/A
6/13/2019	CHFHUF	11:30:00 AM	286.9	287.27			N/A
6/13/2019	CHFHUF	1:30:00 PM	287.05	287.43			N/A
6/13/2019	CHFHUF	3:30:00 PM	287.17	287.45			N/A
6/13/2019	CHFJPY	9:30:00 AM	108.849	108.905			N/A
6/13/2019	CHFJPY	11:30:00 AM	109.068	109.122			N/A
6/13/2019	CHFJPY	1:30:00 PM	109.143	109.213			N/A
6/13/2019	CHFJPY	3:30:00 PM	109.212	109.277			N/A
6/13/2019	CHFJPY.fx	9:30:00 AM	108.882	108.87			N/A
6/13/2019	CHFJPY.fx	11:30:00 AM	109.101	109.089			N/A
6/13/2019	CHFJPY.fx	1:30:00 PM	109.176	109.178			N/A
6/13/2019	CHFJPY.fx	3:30:00 PM	109.243	109.244			N/A
6/13/2019	CHFMXN	9:30:00 AM	19.2802	19.2903			N/A
6/13/2019	CHFMXN	11:30:00 AM	19.3005	19.316			N/A
6/13/2019	CHFMXN	1:30:00 PM	19.2923	19.3047			N/A
6/13/2019	CHFMXN	3:30:00 PM	19.3236	19.3315			N/A
6/13/2019	CHFNOK	9:30:00 AM	8.6958	8.7005			N/A
6/13/2019	CHFNOK	11:30:00 AM	8.7123	8.72			N/A
6/13/2019	CHFNOK	1:30:00 PM	8.7122	8.7193			N/A
6/13/2019	CHFNOK	3:30:00 PM	8.7179	8.7256			N/A
6/13/2019	CHFNOK.fx	9:30:00 AM	8.69923	8.6971			N/A
6/13/2019	CHFNOK.fx	11:30:00 AM	8.71584	8.71651			N/A
6/13/2019	CHFNOK.fx	1:30:00 PM	8.7156	8.71589			N/A
6/13/2019	CHFNOK.fx	3:30:00 PM	8.72135	8.72212			N/A
6/13/2019	CHFPLN	9:30:00 AM	3.7843	3.7866			N/A
6/13/2019	CHFPLN	11:30:00 AM	3.7964	3.7987			N/A

6/13/2019	CHFPLN	1:30:00 PM	3.7974	3.8003			N/A
6/13/2019	CHFPLN	3:30:00 PM	3.7986	3.8016			N/A
6/13/2019	CHFPLN.fx	9:30:00 AM	3.78195	3.78894			N/A
6/13/2019	CHFPLN.fx	11:30:00 AM	3.794	3.80095			N/A
6/13/2019	CHFPLN.fx	1:30:00 PM	3.79496	3.80255			N/A
6/13/2019	CHFPLN.fx	3:30:00 PM	3.79614	3.80393			N/A
6/13/2019	CHFSEK	9:30:00 AM	9.5157	9.5187			N/A
6/13/2019	CHFSEK	11:30:00 AM	9.5396	9.5445			N/A
6/13/2019	CHFSEK	1:30:00 PM	9.5331	9.5375			N/A
6/13/2019	CHFSEK	3:30:00 PM	9.5479	9.551			N/A
6/13/2019	CHFSGD	9:30:00 AM	1.3729	1.373			N/A
6/13/2019	CHFSGD	11:30:00 AM	1.3754	1.3757			N/A
6/13/2019	CHFSGD	1:30:00 PM	1.3752	1.3756			N/A
6/13/2019	CHFSGD	3:30:00 PM	1.3764	1.3767			N/A
6/13/2019	CHFSGD.fx	9:30:00 AM	1.37303	1.37285			N/A
6/13/2019	CHFSGD.fx	11:30:00 AM	1.37553	1.37537			N/A
6/13/2019	CHFSGD.fx	1:30:00 PM	1.37536	1.37537			N/A
6/13/2019	CHFSGD.fx	3:30:00 PM	1.37653	1.37643			N/A
6/13/2019	CHFZAR	9:30:00 AM	14.9694	14.9728			N/A
6/13/2019	CHFZAR	11:30:00 AM	14.933	14.9435			N/A
6/13/2019	CHFZAR	1:30:00 PM	14.95	14.9611			N/A
6/13/2019	CHFZAR	3:30:00 PM	14.9835	14.9915			N/A
6/13/2019	CZKJPY	9:30:00 AM	4.787	4.791			N/A
6/13/2019	CZKJPY	11:30:00 AM					N/A
6/13/2019	CZKJPY	1:30:00 PM					N/A
6/13/2019	CZKJPY	3:30:00 PM	4.787	4.791			N/A
6/13/2019	DAX30.i	9:30:00 AM	12081.03	12078.78			N/A
6/13/2019	DAX30.i	11:30:00 AM	12170.03	12162.53			N/A
6/13/2019	DAX30.i	1:30:00 PM	12174.03	12170.03			N/A
6/13/2019	DAX30.i	3:30:00 PM	12165.53	12161.53			N/A
6/13/2019	DJ30.i	9:30:00 AM					N/A
6/13/2019	DJ30.i	11:30:00 AM					N/A
6/13/2019	DJ30.i	1:30:00 PM					N/A
6/13/2019	DJ30.i	3:30:00 PM					N/A

6/13/2019	DKKJPY	9:30:00 AM					N/A
6/13/2019	DKKJPY	11:30:00 AM					N/A
6/13/2019	DKKJPY	1:30:00 PM					N/A
6/13/2019	DKKJPY	3:30:00 PM	16.4	16.41			N/A
6/13/2019	EURAUD	9:30:00 AM	1.63499	1.63529			N/A
6/13/2019	EURAUD	11:30:00 AM	1.63361	1.63395			N/A
6/13/2019	EURAUD	1:30:00 PM	1.63392	1.63433			N/A
6/13/2019	EURAUD	3:30:00 PM	1.6319	1.63224			N/A
6/13/2019	EURAUD.fx	9:30:00 AM	1.63519	1.63506			N/A
6/13/2019	EURAUD.fx	11:30:00 AM	1.63383	1.63373			N/A
6/13/2019	EURAUD.fx	1:30:00 PM	1.63412	1.63412			N/A
6/13/2019	EURAUD.fx	3:30:00 PM	1.63209	1.63206			N/A
6/13/2019	EURCAD	9:30:00 AM	1.50535	1.50588			N/A
6/13/2019	EURCAD	11:30:00 AM	1.50443	1.50519			N/A
6/13/2019	EURCAD	1:30:00 PM	1.50225	1.50312			N/A
6/13/2019	EURCAD	3:30:00 PM	1.50246	1.50267			N/A
6/13/2019	EURCAD.fx	9:30:00 AM	1.50577	1.50545			N/A
6/13/2019	EURCAD.fx	11:30:00 AM	1.50487	1.50477			N/A
6/13/2019	EURCAD.fx	1:30:00 PM	1.50266	1.50269			N/A
6/13/2019	EURCAD.fx	3:30:00 PM	1.50288	1.50229			N/A
6/13/2019	EURCHF	9:30:00 AM	1.12432	1.12427			N/A
6/13/2019	EURCHF	11:30:00 AM	1.12195	1.12196			N/A
6/13/2019	EURCHF	1:30:00 PM	1.12156	1.12168			N/A
6/13/2019	EURCHF	3:30:00 PM	1.1202	1.12037			N/A
6/13/2019	EURCHF.fx	9:30:00 AM	1.12437	1.12421			N/A
6/13/2019	EURCHF.fx	11:30:00 AM	1.12201	1.12191			N/A
6/13/2019	EURCHF.fx	1:30:00 PM	1.12161	1.12162			N/A
6/13/2019	EURCHF.fx	3:30:00 PM	1.12026	1.1203			N/A
6/13/2019	EURCZK	9:30:00 AM	25.551	25.583			N/A
6/13/2019	EURCZK	11:30:00 AM	25.542	25.582			N/A
6/13/2019	EURCZK	1:30:00 PM	25.539	25.578			N/A
6/13/2019	EURCZK	3:30:00 PM	25.538	25.578			N/A
6/13/2019	EURDKK	9:30:00 AM	7.4667	7.468			N/A
6/13/2019	EURDKK	11:30:00 AM	7.4667	7.468			N/A

6/13/2019	EURDKK	1:30:00 PM	7.4659	7.4672			N/A
6/13/2019	EURDKK	3:30:00 PM	7.4659	7.467			N/A
6/13/2019	EURGBP	9:30:00 AM	0.89043	0.89039			N/A
6/13/2019	EURGBP	11:30:00 AM	0.8913	0.89105			N/A
6/13/2019	EURGBP	1:30:00 PM	0.89074	0.89085			N/A
6/13/2019	EURGBP	3:30:00 PM	0.88895	0.88846			N/A
6/13/2019	EURGBP.fx	9:30:00 AM	0.89047	0.89034			N/A
6/13/2019	EURGBP.fx	11:30:00 AM	0.89133	0.891			N/A
6/13/2019	EURGBP.fx	1:30:00 PM	0.89077	0.89081			N/A
6/13/2019	EURGBP.fx	3:30:00 PM	0.88898	0.88842			N/A
6/13/2019	EURHKD	9:30:00 AM	8.8412	8.8464			N/A
6/13/2019	EURHKD	11:30:00 AM	8.8375	8.8416			N/A
6/13/2019	EURHKD	1:30:00 PM	8.8349	8.8402			N/A
6/13/2019	EURHKD	3:30:00 PM	8.8347	8.839			N/A
6/13/2019	EURHKD.fx	9:30:00 AM	8.84415	8.84349			N/A
6/13/2019	EURHKD.fx	11:30:00 AM	8.84028	8.83877			N/A
6/13/2019	EURHKD.fx	1:30:00 PM	8.83764	8.83737			N/A
6/13/2019	EURHKD.fx	3:30:00 PM	8.83745	8.83641			N/A
6/13/2019	EURHUF	9:30:00 AM	321.84	322.54			N/A
6/13/2019	EURHUF	11:30:00 AM	321.81	322.42			N/A
6/13/2019	EURHUF	1:30:00 PM	321.85	322.51			N/A
6/13/2019	EURHUF	3:30:00 PM	321.69	322.31			N/A
6/13/2019	EURHUF.fx	9:30:00 AM	322.111	322.27			N/A
6/13/2019	EURHUF.fx	11:30:00 AM	322.091	322.248			N/A
6/13/2019	EURHUF.fx	1:30:00 PM	322.169	322.348			N/A
6/13/2019	EURHUF.fx	3:30:00 PM	321.976	322.12			N/A
6/13/2019	EURJPY	9:30:00 AM	122.407	122.405			N/A
6/13/2019	EURJPY	11:30:00 AM	122.397	122.4			N/A
6/13/2019	EURJPY	1:30:00 PM	122.454	122.462			N/A
6/13/2019	EURJPY	3:30:00 PM	122.383	122.389			N/A
6/13/2019	EURJPY.fx	9:30:00 AM	122.409	122.4			N/A
6/13/2019	EURJPY.fx	11:30:00 AM	122.399	122.396			N/A
6/13/2019	EURJPY.fx	1:30:00 PM	122.457	122.458			N/A
6/13/2019	EURJPY.fx	3:30:00 PM	122.386	122.385			N/A

6/13/2019	EURMXN	9:30:00 AM	21.6766	21.6914			N/A
6/13/2019	EURMXN	11:30:00 AM	21.6565	21.674			N/A
6/13/2019	EURMXN	1:30:00 PM	21.6408	21.6574			N/A
6/13/2019	EURMXN	3:30:00 PM	21.6492	21.6628			N/A
6/13/2019	EURMXN.fx	9:30:00 AM	21.6846	21.6827			N/A
6/13/2019	EURMXN.fx	11:30:00 AM	21.665	21.6655			N/A
6/13/2019	EURMXN.fx	1:30:00 PM	21.6498	21.6489			N/A
6/13/2019	EURMXN.fx	3:30:00 PM	21.6583	21.6544			N/A
6/13/2019	EURNOK	9:30:00 AM	9.7741	9.7834			N/A
6/13/2019	EURNOK	11:30:00 AM	9.773	9.7849			N/A
6/13/2019	EURNOK	1:30:00 PM	9.77	9.7816			N/A
6/13/2019	EURNOK	3:30:00 PM	9.7652	9.7767			N/A
6/13/2019	EURNOK.fx	9:30:00 AM	9.77922	9.77808			N/A
6/13/2019	EURNOK.fx	11:30:00 AM	9.77847	9.77919			N/A
6/13/2019	EURNOK.fx	1:30:00 PM	9.77541	9.7763			N/A
6/13/2019	EURNOK.fx	3:30:00 PM	9.77052	9.77137			N/A
6/13/2019	EURNZD	9:30:00 AM	1.71865	1.71947			N/A
6/13/2019	EURNZD	11:30:00 AM	1.71854	1.7192			N/A
6/13/2019	EURNZD	1:30:00 PM	1.71918	1.72002			N/A
6/13/2019	EURNZD	3:30:00 PM	1.71888	1.71968			N/A
6/13/2019	EURNZD.fx	9:30:00 AM	1.71908	1.71903			N/A
6/13/2019	EURNZD.fx	11:30:00 AM	1.71895	1.71876			N/A
6/13/2019	EURNZD.fx	1:30:00 PM	1.71959	1.71957			N/A
6/13/2019	EURNZD.fx	3:30:00 PM	1.71928	1.71926			N/A
6/13/2019	EURPLN	9:30:00 AM	4.2544	4.2576			N/A
6/13/2019	EURPLN	11:30:00 AM	4.2591	4.2618			N/A
6/13/2019	EURPLN	1:30:00 PM	4.2592	4.2624			N/A
6/13/2019	EURPLN	3:30:00 PM	4.2557	4.2573			N/A
6/13/2019	EURPLN.fx	9:30:00 AM	4.25387	4.25814			N/A
6/13/2019	EURPLN.fx	11:30:00 AM	4.25852	4.2624			N/A
6/13/2019	EURPLN.fx	1:30:00 PM	4.25864	4.26292			N/A
6/13/2019	EURPLN.fx	3:30:00 PM	4.25483	4.25932			N/A
6/13/2019	EURRUB	9:30:00 AM					N/A
6/13/2019	EURRUB	11:30:00 AM	72.603	73.038			N/A

6/13/2019	EURRUB	1:30:00 PM	72.587	73.028			N/A
6/13/2019	EURRUB	3:30:00 PM	72.584	73.017			N/A
6/13/2019	EURSEK	9:30:00 AM	10.6992	10.7032			N/A
6/13/2019	EURSEK	11:30:00 AM	10.7042	10.7092			N/A
6/13/2019	EURSEK	1:30:00 PM	10.6943	10.6989			N/A
6/13/2019	EURSEK	3:30:00 PM	10.698	10.7018			N/A
6/13/2019	EURSEK.fx	9:30:00 AM	10.70086	10.70155			N/A
6/13/2019	EURSEK.fx	11:30:00 AM	10.70588	10.70755			N/A
6/13/2019	EURSEK.fx	1:30:00 PM	10.69606	10.69712			N/A
6/13/2019	EURSEK.fx	3:30:00 PM	10.6997	10.70026			N/A
6/13/2019	EURSGD	9:30:00 AM	1.5432	1.544			N/A
6/13/2019	EURSGD	11:30:00 AM	1.5429	1.5436			N/A
6/13/2019	EURSGD	1:30:00 PM	1.5423	1.5431			N/A
6/13/2019	EURSGD	3:30:00 PM	1.5418	1.5424			N/A
6/13/2019	EURSGD.fx	9:30:00 AM	1.54354	1.54359			N/A
6/13/2019	EURSGD.fx	11:30:00 AM	1.54331	1.54317			N/A
6/13/2019	EURSGD.fx	1:30:00 PM	1.54261	1.54267			N/A
6/13/2019	EURSGD.fx	3:30:00 PM	1.54213	1.54201			N/A
6/13/2019	EURUSD	9:30:00 AM	1.12998	1.13003			N/A
6/13/2019	EURUSD	11:30:00 AM	1.12944	1.12939			N/A
6/13/2019	EURUSD	1:30:00 PM	1.12883	1.12894			N/A
6/13/2019	EURUSD	3:30:00 PM	1.12873	1.12868		12100	N/A
6/13/2019	EURUSD.fx	9:30:00 AM	1.13019	1.13013			N/A
6/13/2019	EURUSD.fx	11:30:00 AM	1.12964	1.12948			N/A
6/13/2019	EURUSD.fx	1:30:00 PM	1.12903	1.12903			N/A
6/13/2019	EURUSD.fx	3:30:00 PM	1.12894	1.12878			N/A
6/13/2019	EURZAR	9:30:00 AM	16.8336	16.8425			N/A
6/13/2019	EURZAR	11:30:00 AM	16.7578	16.7724			N/A
6/13/2019	EURZAR	1:30:00 PM	16.7713	16.7886			N/A
6/13/2019	EURZAR	3:30:00 PM	16.7927	16.8033			N/A
6/13/2019	EURZAR.fx	9:30:00 AM	16.83203	16.84364			N/A
6/13/2019	EURZAR.fx	11:30:00 AM	16.75735	16.77315			N/A
6/13/2019	EURZAR.fx	1:30:00 PM	16.77036	16.78841			N/A
6/13/2019	EURZAR.fx	3:30:00 PM	16.79167	16.8045			N/A

6/13/2019	GBPAUD	9:30:00 AM	1.83695	1.83742			N/A
6/13/2019	GBPAUD	11:30:00 AM	1.83392	1.83412			N/A
6/13/2019	GBPAUD	1:30:00 PM	1.83475	1.83548			N/A
6/13/2019	GBPAUD	3:30:00 PM	1.83736	1.83701			N/A
6/13/2019	GBPAUD.fx	9:30:00 AM	1.83734	1.837			N/A
6/13/2019	GBPAUD.fx	11:30:00 AM	1.83433	1.83373			N/A
6/13/2019	GBPAUD.fx	1:30:00 PM	1.83513	1.8352			N/A
6/13/2019	GBPAUD.fx	3:30:00 PM	1.83773	1.83661			N/A
6/13/2019	GBPCAD	9:30:00 AM	1.69083	1.69121			N/A
6/13/2019	GBPCAD	11:30:00 AM	1.68854	1.68877			N/A
6/13/2019	GBPCAD	1:30:00 PM	1.68652	1.68734			N/A
6/13/2019	GBPCAD	3:30:00 PM	1.69075	1.69098			N/A
6/13/2019	GBPCAD.fx	9:30:00 AM	1.69123	1.69081			N/A
6/13/2019	GBPCAD.fx	11:30:00 AM	1.68894	1.68835			N/A
6/13/2019	GBPCAD.fx	1:30:00 PM	1.6869	1.68694			N/A
6/13/2019	GBPCAD.fx	3:30:00 PM	1.69116	1.69058			N/A
6/13/2019	GBPCHF	9:30:00 AM	1.26261	1.26271			N/A
6/13/2019	GBPCHF	11:30:00 AM	1.25896	1.25898			N/A
6/13/2019	GBPCHF	1:30:00 PM	1.25892	1.25934			N/A
6/13/2019	GBPCHF	3:30:00 PM	1.26081	1.26042			N/A
6/13/2019	GBPCHF.fx	9:30:00 AM	1.2628	1.26251			N/A
6/13/2019	GBPCHF.fx	11:30:00 AM	1.25915	1.25876			N/A
6/13/2019	GBPCHF.fx	1:30:00 PM	1.25911	1.25914			N/A
6/13/2019	GBPCHF.fx	3:30:00 PM	1.26099	1.26024			N/A
6/13/2019	GBPCZK	9:30:00 AM	28.705	28.723			N/A
6/13/2019	GBPCZK	11:30:00 AM	28.676	28.688			N/A
6/13/2019	GBPCZK	1:30:00 PM	28.68	28.703			N/A
6/13/2019	GBPCZK	3:30:00 PM	28.755	28.76			N/A
6/13/2019	GBPDKK	9:30:00 AM	8.383	8.392			N/A
6/13/2019	GBPDKK	11:30:00 AM	8.376	8.384			N/A
6/13/2019	GBPDKK	1:30:00 PM	8.378	8.389			N/A
6/13/2019	GBPDKK	3:30:00 PM	8.4	8.407			N/A
6/13/2019	GBPDKK.fx	9:30:00 AM	8.3808	8.3925			N/A
6/13/2019	GBPDKK.fx	11:30:00 AM	8.3749	8.3846			N/A

6/13/2019	GBPDKK.fx	1:30:00 PM	8.3768	8.3898			N/A
6/13/2019	GBPDKK.fx	3:30:00 PM	8.3993	8.4068			N/A
6/13/2019	GBPHKD	9:30:00 AM	9.9283	9.9314			N/A
6/13/2019	GBPHKD	11:30:00 AM	9.9159	9.9184			N/A
6/13/2019	GBPHKD	1:30:00 PM	9.9161	9.9213			N/A
6/13/2019	GBPHKD	3:30:00 PM	9.9408	9.9413			N/A
6/13/2019	GBPHUF	9:30:00 AM	361.48	361.85			N/A
6/13/2019	GBPHUF	11:30:00 AM	361.19	361.53			N/A
6/13/2019	GBPHUF	1:30:00 PM	361.37	361.86			N/A
6/13/2019	GBPHUF	3:30:00 PM	362	362.31			N/A
6/13/2019	GBPJPY	9:30:00 AM	137.464	137.47			N/A
6/13/2019	GBPJPY	11:30:00 AM	137.362	137.347			N/A
6/13/2019	GBPJPY	1:30:00 PM	137.454	137.489			N/A
6/13/2019	GBPJPY	3:30:00 PM	137.741	137.685			N/A
6/13/2019	GBPJPY.fx	9:30:00 AM	137.483	137.45			N/A
6/13/2019	GBPJPY.fx	11:30:00 AM	137.382	137.327			N/A
6/13/2019	GBPJPY.fx	1:30:00 PM	137.473	137.469			N/A
6/13/2019	GBPJPY.fx	3:30:00 PM	137.759	137.666			N/A
6/13/2019	GBPMXN	9:30:00 AM	24.3423	24.3525			N/A
6/13/2019	GBPMXN	11:30:00 AM	24.3015	24.3074			N/A
6/13/2019	GBPMXN	1:30:00 PM	24.2889	24.3007			N/A
6/13/2019	GBPMXN	3:30:00 PM	24.3614	24.3629			N/A
6/13/2019	GBPNOK	9:30:00 AM	10.9794	10.9873			N/A
6/13/2019	GBPNOK	11:30:00 AM	10.9694	10.9772			N/A
6/13/2019	GBPNOK	1:30:00 PM	10.9683	10.9798			N/A
6/13/2019	GBPNOK	3:30:00 PM	10.9927	10.9976			N/A
6/13/2019	GBPNOK.fx	9:30:00 AM	10.98411	10.9826			N/A
6/13/2019	GBPNOK.fx	11:30:00 AM	10.97441	10.97192			N/A
6/13/2019	GBPNOK.fx	1:30:00 PM	10.97339	10.97481			N/A
6/13/2019	GBPNOK.fx	3:30:00 PM	10.99736	10.9927			N/A
6/13/2019	GBPNZD	9:30:00 AM	1.93048	1.93098			N/A
6/13/2019	GBPNZD	11:30:00 AM	1.92873	1.92891			N/A
6/13/2019	GBPNZD	1:30:00 PM	1.93004	1.93076			N/A
6/13/2019	GBPNZD	3:30:00 PM	1.93478	1.93444			N/A

6/13/2019	GBPNZD.fx	9:30:00 AM	1.93085	1.9306			N/A
6/13/2019	GBPNZD.fx	11:30:00 AM	1.9291	1.92856			N/A
6/13/2019	GBPNZD.fx	1:30:00 PM	1.93039	1.9304			N/A
6/13/2019	GBPNZD.fx	3:30:00 PM	1.93512	1.93405			N/A
6/13/2019	GBPPLN	9:30:00 AM	4.7793	4.7806			N/A
6/13/2019	GBPPLN	11:30:00 AM	4.7808	4.7809			N/A
6/13/2019	GBPPLN	1:30:00 PM	4.7821	4.7841			N/A
6/13/2019	GBPPLN	3:30:00 PM	4.7908	4.7898			N/A
6/13/2019	GBPPLN.fx	9:30:00 AM	4.77733	4.78263			N/A
6/13/2019	GBPPLN.fx	11:30:00 AM	4.77858	4.78306			N/A
6/13/2019	GBPPLN.fx	1:30:00 PM	4.78011	4.78604			N/A
6/13/2019	GBPPLN.fx	3:30:00 PM	4.7885	4.79202			N/A
6/13/2019	GBPSEK	9:30:00 AM	12.0155	12.0226			N/A
6/13/2019	GBPSEK	11:30:00 AM	12.0117	12.0169			N/A
6/13/2019	GBPSEK	1:30:00 PM	12.0033	12.0131			N/A
6/13/2019	GBPSEK	3:30:00 PM	12.0385	12.0408			N/A
6/13/2019	GBPSEK.fx	9:30:00 AM	12.01199	12.02623			N/A
6/13/2019	GBPSEK.fx	11:30:00 AM	12.00797	12.02039			N/A
6/13/2019	GBPSEK.fx	1:30:00 PM	11.99987	12.01663			N/A
6/13/2019	GBPSEK.fx	3:30:00 PM	12.03467	12.04452			N/A
6/13/2019	GBPSGD	9:30:00 AM	1.7334	1.7338			N/A
6/13/2019	GBPSGD	11:30:00 AM	1.7316	1.7319			N/A
6/13/2019	GBPSGD	1:30:00 PM	1.7314	1.7322			N/A
6/13/2019	GBPSGD	3:30:00 PM	1.7354	1.7351			N/A
6/13/2019	GBPSGD.fx	9:30:00 AM	1.73156	1.73563			N/A
6/13/2019	GBPSGD.fx	11:30:00 AM	1.72973	1.73374			N/A
6/13/2019	GBPSGD.fx	1:30:00 PM	1.72956	1.73398			N/A
6/13/2019	GBPSGD.fx	3:30:00 PM	1.73355	1.73687			N/A
6/13/2019	GBPUSD	9:30:00 AM	1.26939	1.26923			N/A
6/13/2019	GBPUSD	11:30:00 AM	1.26773	1.2674			N/A
6/13/2019	GBPUSD	1:30:00 PM	1.26743	1.2675			N/A
6/13/2019	GBPUSD	3:30:00 PM	1.27065	1.2699			N/A
6/13/2019	GBPUSD.fx	9:30:00 AM	1.26944	1.26918			N/A
6/13/2019	GBPUSD.fx	11:30:00 AM	1.26778	1.26734			N/A

6/13/2019	GBPUSD.fx	1:30:00 PM	1.26748	1.26744			N/A
6/13/2019	GBPUSD.fx	3:30:00 PM	1.2707	1.26985			N/A
6/13/2019	GBPZAR	9:30:00 AM	18.9027	18.9187			N/A
6/13/2019	GBPZAR	11:30:00 AM	18.803	18.8201			N/A
6/13/2019	GBPZAR	1:30:00 PM	18.8237	18.8477			N/A
6/13/2019	GBPZAR	3:30:00 PM	18.897	18.9044			N/A
6/13/2019	GBPZAR.fx	9:30:00 AM	18.9083	18.9119			N/A
6/13/2019	GBPZAR.fx	11:30:00 AM	18.8111	18.8126			N/A
6/13/2019	GBPZAR.fx	1:30:00 PM	18.8308	18.8404			N/A
6/13/2019	GBPZAR.fx	3:30:00 PM	18.9043	18.8977			N/A
6/13/2019	GOLD	9:30:00 AM	1337.39	1337.47			N/A
6/13/2019	GOLD	11:30:00 AM	1337.44	1337.6			N/A
6/13/2019	GOLD	1:30:00 PM	1336.32	1336.56			N/A
6/13/2019	GOLD	3:30:00 PM	1336.92	1336.86			N/A
6/13/2019	HKDJPY	9:30:00 AM	13.84	13.85			N/A
6/13/2019	HKDJPY	11:30:00 AM	13.85	13.86			N/A
6/13/2019	HKDJPY	1:30:00 PM	13.85	13.87			N/A
6/13/2019	HKDJPY	3:30:00 PM	13.85	13.86			N/A
6/13/2019	HKDJPY.fx	9:30:00 AM	13.837	13.843			N/A
6/13/2019	HKDJPY.fx	11:30:00 AM	13.843	13.849			N/A
6/13/2019	HKDJPY.fx	1:30:00 PM	13.852	13.859			N/A
6/13/2019	HKDJPY.fx	3:30:00 PM	13.845	13.851			N/A
6/13/2019	HUFJPY	9:30:00 AM	0.3802	0.3805			N/A
6/13/2019	HUFJPY	11:30:00 AM	0.3803	0.3806			N/A
6/13/2019	HUFJPY	1:30:00 PM	0.3802	0.3805			N/A
6/13/2019	HUFJPY	3:30:00 PM	0.3804	0.3807			N/A
6/13/2019	JP225.i	9:30:00 AM	20980.33	20995.33			N/A
6/13/2019	JP225.i	11:30:00 AM	21050.33	21065.33			N/A
6/13/2019	JP225.i	1:30:00 PM	21084.5	21095.33			N/A
6/13/2019	JP225.i	3:30:00 PM	21065.33	21077.83			N/A
6/13/2019	MXNJPY	9:30:00 AM	5.65	5.65			N/A
6/13/2019	MXNJPY	11:30:00 AM	5.65	5.66			N/A
6/13/2019	MXNJPY	1:30:00 PM	5.66	5.67			N/A
6/13/2019	MXNJPY	3:30:00 PM					N/A

6/13/2019	NASDAQ.i	9:30:00 AM					N/A
6/13/2019	NASDAQ.i	11:30:00 AM					N/A
6/13/2019	NASDAQ.i	1:30:00 PM					N/A
6/13/2019	NASDAQ.i	3:30:00 PM					N/A
6/13/2019	NOKJPY	9:30:00 AM	12.51	12.53			N/A
6/13/2019	NOKJPY	11:30:00 AM	12.51	12.54			N/A
6/13/2019	NOKJPY	1:30:00 PM	12.52	12.55			N/A
6/13/2019	NOKJPY	3:30:00 PM	12.52	12.55			N/A
6/13/2019	NOKJPY.fx	9:30:00 AM	12.516	12.519			N/A
6/13/2019	NOKJPY.fx	11:30:00 AM	12.513	12.52			N/A
6/13/2019	NOKJPY.fx	1:30:00 PM	12.523	12.53			N/A
6/13/2019	NOKJPY.fx	3:30:00 PM	12.522	12.529			N/A
6/13/2019	NZDCAD	9:30:00 AM	0.87555	0.87614			N/A
6/13/2019	NZDCAD	11:30:00 AM	0.87517	0.87583			N/A
6/13/2019	NZDCAD	1:30:00 PM	0.87351	0.8742			N/A
6/13/2019	NZDCAD	3:30:00 PM	0.87382	0.87409			N/A
6/13/2019	NZDCAD.fx	9:30:00 AM	0.87588	0.8758			N/A
6/13/2019	NZDCAD.fx	11:30:00 AM	0.87551	0.87549			N/A
6/13/2019	NZDCAD.fx	1:30:00 PM	0.87385	0.87386			N/A
6/13/2019	NZDCAD.fx	3:30:00 PM	0.87414	0.87382			N/A
6/13/2019	NZDCHF	9:30:00 AM	0.65371	0.65432			N/A
6/13/2019	NZDCHF	11:30:00 AM	0.65243	0.65307			N/A
6/13/2019	NZDCHF	1:30:00 PM	0.65189	0.65262			N/A
6/13/2019	NZDCHF	3:30:00 PM	0.65125	0.65197			N/A
6/13/2019	NZDCHF.fx	9:30:00 AM	0.65405	0.65396			N/A
6/13/2019	NZDCHF.fx	11:30:00 AM	0.65277	0.65271			N/A
6/13/2019	NZDCHF.fx	1:30:00 PM	0.65223	0.65226			N/A
6/13/2019	NZDCHF.fx	3:30:00 PM	0.65158	0.65162			N/A
6/13/2019	NZDCZK	9:30:00 AM	14.867	14.876			N/A
6/13/2019	NZDCZK	11:30:00 AM	14.863	14.875			N/A
6/13/2019	NZDCZK	1:30:00 PM	14.856	14.868			N/A
6/13/2019	NZDCZK	3:30:00 PM	14.858	14.87			N/A
6/13/2019	NZDDKK	9:30:00 AM	4.342	4.346			N/A
6/13/2019	NZDDKK	11:30:00 AM					N/A

6/13/2019	NZDDKK	1:30:00 PM	4.34	4.344			N/A
6/13/2019	NZDDKK	3:30:00 PM	4.341	4.345			N/A
6/13/2019	NZDHKD	9:30:00 AM	5.1411	5.144			N/A
6/13/2019	NZDHKD	11:30:00 AM	5.1403	5.1428			N/A
6/13/2019	NZDHKD	1:30:00 PM	5.1362	5.1387			N/A
6/13/2019	NZDHKD	3:30:00 PM	5.1364	5.1393			N/A
6/13/2019	NZDHUF	9:30:00 AM	187.18	187.45			N/A
6/13/2019	NZDHUF	11:30:00 AM	187.2	187.48			N/A
6/13/2019	NZDHUF	1:30:00 PM	187.16	187.45			N/A
6/13/2019	NZDHUF	3:30:00 PM	187.05	187.28			N/A
6/13/2019	NZDJPY	9:30:00 AM	71.174	71.235			N/A
6/13/2019	NZDJPY	11:30:00 AM	71.178	71.246			N/A
6/13/2019	NZDJPY	1:30:00 PM	71.178	71.25			N/A
6/13/2019	NZDJPY	3:30:00 PM	71.15	71.218			N/A
6/13/2019	NZDJPY.fx	9:30:00 AM	71.206	71.201			N/A
6/13/2019	NZDJPY.fx	11:30:00 AM	71.209	71.213			N/A
6/13/2019	NZDJPY.fx	1:30:00 PM	71.209	71.217			N/A
6/13/2019	NZDJPY.fx	3:30:00 PM	71.181	71.187			N/A
6/13/2019	NZDMXN	9:30:00 AM	12.6063	12.6112			N/A
6/13/2019	NZDMXN	11:30:00 AM	12.5972	12.602			N/A
6/13/2019	NZDMXN	1:30:00 PM	12.5816	12.586			N/A
6/13/2019	NZDMXN	3:30:00 PM	12.5893	12.5904			N/A
6/13/2019	NZDNOK	9:30:00 AM	5.6848	5.6877			N/A
6/13/2019	NZDNOK	11:30:00 AM	5.6854	5.6892			N/A
6/13/2019	NZDNOK	1:30:00 PM	5.6809	5.684			N/A
6/13/2019	NZDNOK	3:30:00 PM	5.6788	5.6801			N/A
6/13/2019	NZDPLN	9:30:00 AM	2.4741	2.4754			N/A
6/13/2019	NZDPLN	11:30:00 AM	2.4768	2.4782			N/A
6/13/2019	NZDPLN	1:30:00 PM	2.4762	2.4775			N/A
6/13/2019	NZDPLN	3:30:00 PM	2.4739	2.4753			N/A
6/13/2019	NZDSEK	9:30:00 AM	6.2186	6.2256			N/A
6/13/2019	NZDSEK	11:30:00 AM	6.223	6.2297			N/A
6/13/2019	NZDSEK	1:30:00 PM	6.2143	6.2208			N/A
6/13/2019	NZDSEK	3:30:00 PM	6.2175	6.2236			N/A

6/13/2019	NZDSGD	9:30:00 AM	0.8976	0.8983			N/A
6/13/2019	NZDSGD	11:30:00 AM	0.8975	0.8982			N/A
6/13/2019	NZDSGD	1:30:00 PM	0.8968	0.8973			N/A
6/13/2019	NZDSGD	3:30:00 PM	0.8967	0.8972			N/A
6/13/2019	NZDSGD.fx	9:30:00 AM	0.89762	0.89823			N/A
6/13/2019	NZDSGD.fx	11:30:00 AM	0.89752	0.89811			N/A
6/13/2019	NZDSGD.fx	1:30:00 PM	0.89682	0.89738			N/A
6/13/2019	NZDSGD.fx	3:30:00 PM	0.89665	0.8972			N/A
6/13/2019	NZDUSD	9:30:00 AM	0.65732	0.65743			N/A
6/13/2019	NZDUSD	11:30:00 AM	0.65705	0.65718			N/A
6/13/2019	NZDUSD	1:30:00 PM	0.65647	0.6566			N/A
6/13/2019	NZDUSD	3:30:00 PM	0.65651	0.65655	100	100	N/A
6/13/2019	NZDUSD.fx	9:30:00 AM	0.65739	0.65743			N/A
6/13/2019	NZDUSD.fx	11:30:00 AM	0.65712	0.65719			N/A
6/13/2019	NZDUSD.fx	1:30:00 PM	0.65655	0.65661			N/A
6/13/2019	NZDUSD.fx	3:30:00 PM	0.65658	0.65658			N/A
6/13/2019	NZDZAR	9:30:00 AM	9.7826	9.7946			N/A
6/13/2019	NZDZAR	11:30:00 AM	9.7418	9.7546			N/A
6/13/2019	NZDZAR	1:30:00 PM	9.744	9.7593			N/A
6/13/2019	NZDZAR	3:30:00 PM	9.756	9.7689			N/A
6/13/2019	SEKJPY	9:30:00 AM	11.44	11.45			N/A
6/13/2019	SEKJPY	11:30:00 AM					N/A
6/13/2019	SEKJPY	1:30:00 PM	11.45	11.46			N/A
6/13/2019	SEKJPY	3:30:00 PM	11.44	11.45			N/A
6/13/2019	SEKJPY.fx	9:30:00 AM	11.429	11.447			N/A
6/13/2019	SEKJPY.fx	11:30:00 AM	11.423	11.441			N/A
6/13/2019	SEKJPY.fx	1:30:00 PM	11.439	11.457			N/A
6/13/2019	SEKJPY.fx	3:30:00 PM	11.429	11.447			N/A
6/13/2019	SGDJPY	9:30:00 AM	79.3	79.3			N/A
6/13/2019	SGDJPY	11:30:00 AM	79.31	79.31			N/A
6/13/2019	SGDJPY	1:30:00 PM	79.36	79.38			N/A
6/13/2019	SGDJPY	3:30:00 PM	79.33	79.36			N/A
6/13/2019	SILVER	9:30:00 AM	14.64	15.02			N/A
6/13/2019	SILVER	11:30:00 AM	14.64	15.02			N/A

6/13/2019	SILVER	1:30:00 PM	14.62	15			N/A
6/13/2019	SILVER	3:30:00 PM	14.63	15			N/A
6/13/2019	SPX500.i	9:30:00 AM	2875.37	2875.42			N/A
6/13/2019	SPX500.i	11:30:00 AM	2886.87	2886.92			N/A
6/13/2019	SPX500.i	1:30:00 PM	2888.37	2889.17			N/A
6/13/2019	SPX500.i	3:30:00 PM	2887.62	2887.67			N/A
6/13/2019	UK100.i	9:30:00 AM	7344.07	7344.82			N/A
6/13/2019	UK100.i	11:30:00 AM	7381.24	7377.15			N/A
6/13/2019	UK100.i	1:30:00 PM	7383.82	7384.24			N/A
6/13/2019	UK100.i	3:30:00 PM	7370.57	7369.99			N/A
6/13/2019	USDCAD	9:30:00 AM	1.33234	1.33225			N/A
6/13/2019	USDCAD	11:30:00 AM	1.33233	1.33235			N/A
6/13/2019	USDCAD	1:30:00 PM	1.33095	1.33109			N/A
6/13/2019	USDCAD	3:30:00 PM	1.33135	1.33101			N/A
6/13/2019	USDCAD.fx	9:30:00 AM	1.33237	1.33221			N/A
6/13/2019	USDCAD.fx	11:30:00 AM	1.33236	1.33231			N/A
6/13/2019	USDCAD.fx	1:30:00 PM	1.331	1.33106			N/A
6/13/2019	USDCAD.fx	3:30:00 PM	1.33138	1.33097			N/A
6/13/2019	USDCHF	9:30:00 AM	0.99485	0.99475			N/A
6/13/2019	USDCHF	11:30:00 AM	0.99325	0.99327			N/A
6/13/2019	USDCHF	1:30:00 PM	0.99339	0.99348			N/A
6/13/2019	USDCHF	3:30:00 PM	0.99243	0.99239			N/A
6/13/2019	USDCHF.fx	9:30:00 AM	0.9949	0.99469			N/A
6/13/2019	USDCHF.fx	11:30:00 AM	0.9933	0.99319			N/A
6/13/2019	USDCHF.fx	1:30:00 PM	0.99344	0.99342			N/A
6/13/2019	USDCHF.fx	3:30:00 PM	0.99247	0.99233			N/A
6/13/2019	USDCZK	9:30:00 AM	22.632	22.653			N/A
6/13/2019	USDCZK	11:30:00 AM	22.638	22.658			N/A
6/13/2019	USDCZK	1:30:00 PM	22.645	22.669			N/A
6/13/2019	USDCZK	3:30:00 PM	22.651	22.67			N/A
6/13/2019	USDCZK.fx	9:30:00 AM	22.6406	22.6441			N/A
6/13/2019	USDCZK.fx	11:30:00 AM	22.6471	22.649			N/A
6/13/2019	USDCZK.fx	1:30:00 PM	22.6544	22.6595			N/A
6/13/2019	USDCZK.fx	3:30:00 PM	22.6587	22.6612			N/A

6/13/2019	USDDKK	9:30:00 AM	6.6063	6.6099			N/A
6/13/2019	USDDKK	11:30:00 AM	6.6103	6.6135			N/A
6/13/2019	USDDKK	1:30:00 PM	6.6131	6.617			N/A
6/13/2019	USDDKK	3:30:00 PM	6.6142	6.6176			N/A
6/13/2019	USDDKK.fx	9:30:00 AM	6.60678	6.60792			N/A
6/13/2019	USDDKK.fx	11:30:00 AM	6.61089	6.61148			N/A
6/13/2019	USDDKK.fx	1:30:00 PM	6.61352	6.61498			N/A
6/13/2019	USDDKK.fx	3:30:00 PM	6.61501	6.61562			N/A
6/13/2019	USDHKD	9:30:00 AM	7.8251	7.8248			N/A
6/13/2019	USDHKD	11:30:00 AM	7.8256	7.8256			N/A
6/13/2019	USDHKD	1:30:00 PM	7.8273	7.8273			N/A
6/13/2019	USDHKD	3:30:00 PM	7.8283	7.8278			N/A
6/13/2019	USDHKD.fx	9:30:00 AM	7.825	7.82463			N/A
6/13/2019	USDHKD.fx	11:30:00 AM	7.82556	7.82569			N/A
6/13/2019	USDHKD.fx	1:30:00 PM	7.82727	7.82774			N/A
6/13/2019	USDHKD.fx	3:30:00 PM	7.82814	7.82822			N/A
6/13/2019	USDHUF	9:30:00 AM	284.87	285.29			N/A
6/13/2019	USDHUF	11:30:00 AM	285	285.44			N/A
6/13/2019	USDHUF	1:30:00 PM	285.19	285.66			N/A
6/13/2019	USDHUF	3:30:00 PM	285.1	285.5			N/A
6/13/2019	USDHUF.fx	9:30:00 AM	285.063	285.116			N/A
6/13/2019	USDHUF.fx	11:30:00 AM	285.205	285.235			N/A
6/13/2019	USDHUF.fx	1:30:00 PM	285.384	285.456			N/A
6/13/2019	USDHUF.fx	3:30:00 PM	285.297	285.295			N/A
6/13/2019	USDINR	9:30:00 AM	64.35	74.34			N/A
6/13/2019	USDINR	11:30:00 AM					N/A
6/13/2019	USDINR	1:30:00 PM					N/A
6/13/2019	USDINR	3:30:00 PM					N/A
6/13/2019	USDJPY	9:30:00 AM	108.309	108.302			N/A
6/13/2019	USDJPY	11:30:00 AM	108.359	108.364			N/A
6/13/2019	USDJPY	1:30:00 PM	108.456	108.463			N/A
6/13/2019	USDJPY	3:30:00 PM	108.412	108.412			N/A
6/13/2019	USDJPY.fx	9:30:00 AM	108.315	108.294			N/A
6/13/2019	USDJPY.fx	11:30:00 AM	108.365	108.356			N/A

6/13/2019	USDJPY.fx	1:30:00 PM	108.462	108.456			N/A
6/13/2019	USDJPY.fx	3:30:00 PM	108.417	108.405			N/A
6/13/2019	USDMXN	9:30:00 AM	19.186	19.189			N/A
6/13/2019	USDMXN	11:30:00 AM	19.178	19.183			N/A
6/13/2019	USDMXN	1:30:00 PM	19.172	19.177			N/A
6/13/2019	USDMXN	3:30:00 PM	19.181	19.187			N/A
6/13/2019	USDMXN.f	9:30:00 AM					N/A
6/13/2019	USDMXN.f	11:30:00 AM					N/A
6/13/2019	USDMXN.f	1:30:00 PM					N/A
6/13/2019	USDMXN.f	3:30:00 PM					N/A
6/13/2019	USDNOK	9:30:00 AM	8.6502	8.6565			N/A
6/13/2019	USDNOK	11:30:00 AM	8.6537	8.6615			N/A
6/13/2019	USDNOK	1:30:00 PM	8.6546	8.6628			N/A
6/13/2019	USDNOK	3:30:00 PM	8.6516	8.6592			N/A
6/13/2019	USDNOK.fx	9:30:00 AM	8.65408	8.65194			N/A
6/13/2019	USDNOK.fx	11:30:00 AM	8.65774	8.6571			N/A
6/13/2019	USDNOK.fx	1:30:00 PM	8.65857	8.65831			N/A
6/13/2019	USDNOK.fx	3:30:00 PM	8.65546	8.65491			N/A
6/13/2019	USDPLN	9:30:00 AM	3.7652	3.7667			N/A
6/13/2019	USDPLN	11:30:00 AM	3.7716	3.7725			N/A
6/13/2019	USDPLN	1:30:00 PM	3.7729	3.7746			N/A
6/13/2019	USDPLN	3:30:00 PM	3.7709	3.7717			N/A
6/13/2019	USDPLN.fx	9:30:00 AM	3.76436	3.76742			N/A
6/13/2019	USDPLN.fx	11:30:00 AM	3.77085	3.77324			N/A
6/13/2019	USDPLN.fx	1:30:00 PM	3.77217	3.77531			N/A
6/13/2019	USDPLN.fx	3:30:00 PM	3.77	3.77241			N/A
6/13/2019	USDRUB	9:30:00 AM					N/A
6/13/2019	USDRUB	11:30:00 AM	64.396	64.792			N/A
6/13/2019	USDRUB	1:30:00 PM	64.414	64.81			N/A
6/13/2019	USDRUB	3:30:00 PM	64.42	64.816			N/A
6/13/2019	USDSEK	9:30:00 AM	9.4671	9.4707			N/A
6/13/2019	USDSEK	11:30:00 AM	9.4767	9.4799			N/A
6/13/2019	USDSEK	1:30:00 PM	9.4714	9.4759			N/A
6/13/2019	USDSEK	3:30:00 PM	9.4758	9.4793			N/A

6/13/2019	USDSEK.fx	9:30:00 AM	9.4695	9.46913			N/A
6/13/2019	USDSEK.fx	11:30:00 AM	9.47925	9.47803			N/A
6/13/2019	USDSEK.fx	1:30:00 PM	9.47388	9.47396			N/A
6/13/2019	USDSEK.fx	3:30:00 PM	9.47849	9.47749			N/A
6/13/2019	USDSGD	9:30:00 AM	1.3656	1.3659			N/A
6/13/2019	USDSGD	11:30:00 AM	1.3661	1.3663			N/A
6/13/2019	USDSGD	1:30:00 PM	1.3661	1.3666			N/A
6/13/2019	USDSGD	3:30:00 PM	1.3659	1.3662			N/A
6/13/2019	USDSGD.fx	9:30:00 AM	1.36561	1.36602			N/A
6/13/2019	USDSGD.fx	11:30:00 AM	1.36603	1.3664			N/A
6/13/2019	USDSGD.fx	1:30:00 PM	1.36609	1.36658			N/A
6/13/2019	USDSGD.fx	3:30:00 PM	1.36579	1.3663			N/A
6/13/2019	USDZAR	9:30:00 AM	14.8926	14.9021			N/A
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6/13/2019	USDZAR.fx	1:30:00 PM					N/A
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6/13/2019	XAUUSD	9:30:00 AM	1337.4	1337.46			N/A
6/13/2019	XAUUSD	11:30:00 AM	1337.44	1337.59			N/A
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6/14/2019	#POT	1:30:00 PM					N/A
6/14/2019	#POT	3:30:00 PM					N/A
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6/14/2019	#QCOM	3:30:00 PM					N/A
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6/14/2019	#QQQ	1:30:00 PM					N/A
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6/14/2019	#Ripple	11:30:00 AM	0.3978	0.4023			N/A
6/14/2019	#Ripple	1:30:00 PM	0.3957	0.4006			N/A
6/14/2019	#Ripple	3:30:00 PM	0.3915	0.3943			N/A
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6/14/2019	#S	11:30:00 AM					N/A
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6/14/2019	#S	3:30:00 PM					N/A
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6/14/2019	#SPY	1:30:00 PM					N/A
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6/14/2019	#TRI	1:30:00 PM					N/A
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6/14/2019	#TRV	11:30:00 AM					N/A
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6/14/2019	#TSCO	3:30:00 PM					N/A
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6/14/2019	#TSLA	11:30:00 AM					N/A
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6/14/2019	#V	1:30:00 PM					N/A
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6/14/2019	#VOD	9:30:00 AM					N/A
6/14/2019	#VOD	11:30:00 AM					N/A
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6/14/2019	#WMT	3:30:00 PM					N/A
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6/14/2019	#XOM	1:30:00 PM					N/A
6/14/2019	#XOM	3:30:00 PM					N/A
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6/14/2019	#YHOO	11:30:00 AM					N/A
6/14/2019	#YHOO	1:30:00 PM					N/A
6/14/2019	#YHOO	3:30:00 PM					N/A
6/14/2019	#ZNGA	9:30:00 AM					N/A
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6/14/2019	#ZNGA	1:30:00 PM					N/A
6/14/2019	#ZNGA	3:30:00 PM					N/A

6/14/2019	AUDCAD	9:30:00 AM	0.91982	0.92053			N/A
6/14/2019	AUDCAD	11:30:00 AM	0.91956	0.92016			N/A
6/14/2019	AUDCAD	1:30:00 PM	0.91967	0.92035			N/A
6/14/2019	AUDCAD	3:30:00 PM	0.91953	0.91987			N/A
6/14/2019	AUDCAD.fx	9:30:00 AM	0.92015	0.92018			N/A
6/14/2019	AUDCAD.fx	11:30:00 AM	0.91989	0.91981			N/A
6/14/2019	AUDCAD.fx	1:30:00 PM	0.92	0.92			N/A
6/14/2019	AUDCAD.fx	3:30:00 PM	0.91974	0.91953			N/A
6/14/2019	AUDCHF	9:30:00 AM	0.68507	0.68575			N/A
6/14/2019	AUDCHF	11:30:00 AM	0.68558	0.68617			N/A
6/14/2019	AUDCHF	1:30:00 PM	0.68631	0.68703			N/A
6/14/2019	AUDCHF	3:30:00 PM	0.68714	0.68722			N/A
6/14/2019	AUDCHF.fx	9:30:00 AM	0.68542	0.6854			N/A
6/14/2019	AUDCHF.fx	11:30:00 AM	0.68593	0.68582			N/A
6/14/2019	AUDCHF.fx	1:30:00 PM	0.68665	0.68667			N/A
6/14/2019	AUDCHF.fx	3:30:00 PM	0.68746	0.68686			N/A
6/14/2019	AUDCZK	9:30:00 AM	15.609	15.626			N/A
6/14/2019	AUDCZK	11:30:00 AM	15.597	15.615			N/A
6/14/2019	AUDCZK	1:30:00 PM	15.618	15.633			N/A
6/14/2019	AUDCZK	3:30:00 PM	15.624	15.623			N/A
6/14/2019	AUDDKK	9:30:00 AM	4.5656	4.5701			N/A
6/14/2019	AUDDKK	11:30:00 AM	4.5623	4.567			N/A
6/14/2019	AUDDKK	1:30:00 PM	4.5694	4.5742			N/A
6/14/2019	AUDDKK	3:30:00 PM	4.5757	4.576			N/A
6/14/2019	AUDHKD	9:30:00 AM	5.3967	5.3999			N/A
6/14/2019	AUDHKD	11:30:00 AM	5.3925	5.3964			N/A
6/14/2019	AUDHKD	1:30:00 PM	5.3967	5.4002			N/A
6/14/2019	AUDHKD	3:30:00 PM	5.3973	5.3956			N/A
6/14/2019	AUDHUF	9:30:00 AM	196.78	197.01			N/A
6/14/2019	AUDHUF	11:30:00 AM	196.56	196.8			N/A
6/14/2019	AUDHUF	1:30:00 PM	196.7	196.86			N/A
6/14/2019	AUDHUF	3:30:00 PM	196.76	196.84			N/A
6/14/2019	AUDJPY	9:30:00 AM	74.666	74.729			N/A
6/14/2019	AUDJPY	11:30:00 AM	74.577	74.644			N/A

6/14/2019	AUDJPY	1:30:00 PM	74.603	74.671			N/A
6/14/2019	AUDJPY	3:30:00 PM	74.708	74.704			N/A
6/14/2019	AUDJPY.fx	9:30:00 AM	74.7	74.694			N/A
6/14/2019	AUDJPY.fx	11:30:00 AM	74.611	74.608			N/A
6/14/2019	AUDJPY.fx	1:30:00 PM	74.637	74.636			N/A
6/14/2019	AUDJPY.fx	3:30:00 PM	74.74	74.68			N/A
6/14/2019	AUDMXN	9:30:00 AM	13.2313	13.2409			N/A
6/14/2019	AUDMXN	11:30:00 AM	13.2491	13.2595			N/A
6/14/2019	AUDMXN	1:30:00 PM	13.2329	13.2416			N/A
6/14/2019	AUDMXN	3:30:00 PM	13.2035	13.2098			N/A
6/14/2019	AUDNOK	9:30:00 AM	5.9877	5.9928			N/A
6/14/2019	AUDNOK	11:30:00 AM	5.9791	5.9828			N/A
6/14/2019	AUDNOK	1:30:00 PM	5.989	5.9941			N/A
6/14/2019	AUDNOK	3:30:00 PM	5.9879	5.9879			N/A
6/14/2019	AUDNOK.fx	9:30:00 AM	5.9892	5.9911			N/A
6/14/2019	AUDNOK.fx	11:30:00 AM	5.9807	5.9811			N/A
6/14/2019	AUDNOK.fx	1:30:00 PM	5.9906	5.9924			N/A
6/14/2019	AUDNOK.fx	3:30:00 PM	5.9894	5.9885			N/A
6/14/2019	AUDNZD	9:30:00 AM	1.05503	1.05596			N/A
6/14/2019	AUDNZD	11:30:00 AM	1.05426	1.05515			N/A
6/14/2019	AUDNZD	1:30:00 PM	1.05507	1.05601			N/A
6/14/2019	AUDNZD	3:30:00 PM	1.05613	1.05657			N/A
6/14/2019	AUDNZD.fx	9:30:00 AM	1.05547	1.05551			N/A
6/14/2019	AUDNZD.fx	11:30:00 AM	1.0547	1.0547			N/A
6/14/2019	AUDNZD.fx	1:30:00 PM	1.05551	1.05557			N/A
6/14/2019	AUDNZD.fx	3:30:00 PM	1.05655	1.05615			N/A
6/14/2019	AUDPLN	9:30:00 AM	2.6011	2.6045			N/A
6/14/2019	AUDPLN	11:30:00 AM	2.5998	2.603			N/A
6/14/2019	AUDPLN	1:30:00 PM	2.6025	2.6057			N/A
6/14/2019	AUDPLN	3:30:00 PM	2.6058	2.6062			N/A
6/14/2019	AUDSEK	9:30:00 AM	6.5442	6.5472			N/A
6/14/2019	AUDSEK	11:30:00 AM	6.5069	6.5096			N/A
6/14/2019	AUDSEK	1:30:00 PM	6.517	6.5203			N/A
6/14/2019	AUDSEK	3:30:00 PM	6.5192	6.5163			N/A

6/14/2019	AUDSEK.fx	9:30:00 AM	6.5397	6.5517			N/A
6/14/2019	AUDSEK.fx	11:30:00 AM	6.5023	6.514			N/A
6/14/2019	AUDSEK.fx	1:30:00 PM	6.5125	6.5247			N/A
6/14/2019	AUDSEK.fx	3:30:00 PM	6.5148	6.5227			N/A
6/14/2019	AUDSGD	9:30:00 AM	0.9431	0.9434			N/A
6/14/2019	AUDSGD	11:30:00 AM	0.9426	0.9429			N/A
6/14/2019	AUDSGD	1:30:00 PM	0.9432	0.9434			N/A
6/14/2019	AUDSGD	3:30:00 PM	0.9433	0.9433			N/A
6/14/2019	AUDSGD.fx	9:30:00 AM	0.94323	0.94332			N/A
6/14/2019	AUDSGD.fx	11:30:00 AM	0.94276	0.94278			N/A
6/14/2019	AUDSGD.fx	1:30:00 PM	0.94326	0.94334			N/A
6/14/2019	AUDSGD.fx	3:30:00 PM	0.94339	0.94318			N/A
6/14/2019	AUDUSD	9:30:00 AM	0.68964	0.68974			N/A
6/14/2019	AUDUSD	11:30:00 AM	0.68948	0.68962			N/A
6/14/2019	AUDUSD	1:30:00 PM	0.68986	0.68997			N/A
6/14/2019	AUDUSD	3:30:00 PM	0.68986	0.68942			N/A
6/14/2019	AUDUSD.fx	9:30:00 AM	0.68969	0.68969			N/A
6/14/2019	AUDUSD.fx	11:30:00 AM	0.68954	0.68956			N/A
6/14/2019	AUDUSD.fx	1:30:00 PM	0.68991	0.68991			N/A
6/14/2019	AUDUSD.fx	3:30:00 PM	0.68989	0.68937			N/A
6/14/2019	AUDZAR	9:30:00 AM	10.2262	10.2363			N/A
6/14/2019	AUDZAR	11:30:00 AM	10.2258	10.2409			N/A
6/14/2019	AUDZAR	1:30:00 PM	10.2118	10.2249			N/A
6/14/2019	AUDZAR	3:30:00 PM	10.1829	10.1835			N/A
6/14/2019	AUS200.i	9:30:00 AM	6552.2	6553.7			N/A
6/14/2019	AUS200.i	11:30:00 AM	6538.16	6540.66			N/A
6/14/2019	AUS200.i	1:30:00 PM	6529.16	6533.16			N/A
6/14/2019	AUS200.i	3:30:00 PM	6538.66	6539.56			N/A
6/14/2019	BCHUSD	9:30:00 AM	418.11	419.94			N/A
6/14/2019	BCHUSD	11:30:00 AM	424.8	424.9			N/A
6/14/2019	BCHUSD	1:30:00 PM	421.15	423.1			N/A
6/14/2019	BCHUSD	3:30:00 PM	421	422.78			N/A
6/14/2019	CADCHF	9:30:00 AM	0.74455	0.74521			N/A
6/14/2019	CADCHF	11:30:00 AM	0.74533	0.74588			N/A

6/14/2019	CADCHF	1:30:00 PM	0.74598	0.74669			N/A
6/14/2019	CADCHF	3:30:00 PM	0.74724	0.7469			N/A
6/14/2019	CADCHF.fx	9:30:00 AM	0.74488	0.74486			N/A
6/14/2019	CADCHF.fx	11:30:00 AM	0.74568	0.74553			N/A
6/14/2019	CADCHF.fx	1:30:00 PM	0.74632	0.74634			N/A
6/14/2019	CADCHF.fx	3:30:00 PM	0.74758	0.74669	1000	1000	N/A
6/14/2019	CADCZK	9:30:00 AM	16.966	16.984			N/A
6/14/2019	CADCZK	11:30:00 AM	16.961	16.977			N/A
6/14/2019	CADCZK	1:30:00 PM	16.98	16.995			N/A
6/14/2019	CADCZK	3:30:00 PM	16.991	16.987			N/A
6/14/2019	CADDKK	9:30:00 AM					N/A
6/14/2019	CADDKK	11:30:00 AM	4.961	4.965			N/A
6/14/2019	CADDKK	1:30:00 PM	4.968	4.97			N/A
6/14/2019	CADDKK	3:30:00 PM	4.973	4.973			N/A
6/14/2019	CADHKD	9:30:00 AM	5.866	5.8694			N/A
6/14/2019	CADHKD	11:30:00 AM	5.8638	5.8668			N/A
6/14/2019	CADHKD	1:30:00 PM	5.8672	5.8707			N/A
6/14/2019	CADHKD	3:30:00 PM	5.868	5.8689			N/A
6/14/2019	CADHUF	9:30:00 AM	213.92	214.09			N/A
6/14/2019	CADHUF	11:30:00 AM	213.78	213.93			N/A
6/14/2019	CADHUF	1:30:00 PM	213.87	213.95			N/A
6/14/2019	CADHUF	3:30:00 PM	214.02	213.96			N/A
6/14/2019	CADJPY	9:30:00 AM	81.144	81.209			N/A
6/14/2019	CADJPY	11:30:00 AM	81.077	81.142			N/A
6/14/2019	CADJPY	1:30:00 PM	81.091	81.159			N/A
6/14/2019	CADJPY	3:30:00 PM	81.242	81.201			N/A
6/14/2019	CADJPY.fx	9:30:00 AM	81.177	81.174			N/A
6/14/2019	CADJPY.fx	11:30:00 AM	81.111	81.107			N/A
6/14/2019	CADJPY.fx	1:30:00 PM	81.124	81.124			N/A
6/14/2019	CADJPY.fx	3:30:00 PM	81.274	81.178			N/A
6/14/2019	CADMXN	9:30:00 AM	14.3806	14.393			N/A
6/14/2019	CADMXN	11:30:00 AM	14.4051	14.4174			N/A
6/14/2019	CADMXN	1:30:00 PM	14.3851	14.3961			N/A
6/14/2019	CADMXN	3:30:00 PM	14.3582	14.3667			N/A

6/14/2019	CADNOK	9:30:00 AM	6.5062	6.5111			N/A
6/14/2019	CADNOK	11:30:00 AM	6.4995	6.5035			N/A
6/14/2019	CADNOK	1:30:00 PM	6.5086	6.5107			N/A
6/14/2019	CADNOK	3:30:00 PM	6.5055	6.5051			N/A
6/14/2019	CADPLN	9:30:00 AM	2.828	2.8296			N/A
6/14/2019	CADPLN	11:30:00 AM	2.8263	2.8281			N/A
6/14/2019	CADPLN	1:30:00 PM	2.8293	2.8308			N/A
6/14/2019	CADPLN	3:30:00 PM	2.8311	2.8314		12700	N/A
6/14/2019	CADSEK	9:30:00 AM	7.1109	7.1144			N/A
6/14/2019	CADSEK	11:30:00 AM	7.0721	7.076			N/A
6/14/2019	CADSEK	1:30:00 PM	7.0821	7.0851			N/A
6/14/2019	CADSEK	3:30:00 PM	7.0843	7.0802			N/A
6/14/2019	CADSGD	9:30:00 AM	1.0245	1.0248			N/A
6/14/2019	CADSGD	11:30:00 AM	1.0243	1.0246			N/A
6/14/2019	CADSGD	1:30:00 PM	1.0246	1.0249			N/A
6/14/2019	CADSGD	3:30:00 PM	1.0249	1.0252			N/A
6/14/2019	CADZAR	9:30:00 AM	11.1143	11.1269			N/A
6/14/2019	CADZAR	11:30:00 AM	11.1179	11.135			N/A
6/14/2019	CADZAR	1:30:00 PM	11.1015	11.1161			N/A
6/14/2019	CADZAR	3:30:00 PM	11.0737	11.0761			N/A
6/14/2019	CHFCZK	9:30:00 AM	22.782	22.798			N/A
6/14/2019	CHFCZK	11:30:00 AM	22.752	22.765			N/A
6/14/2019	CHFCZK	1:30:00 PM	22.755	22.768			N/A
6/14/2019	CHFCZK	3:30:00 PM	22.747	22.749			N/A
6/14/2019	CHFDKK	9:30:00 AM	6.663	6.666			N/A
6/14/2019	CHFDKK	11:30:00 AM	6.654	6.657			N/A
6/14/2019	CHFDKK	1:30:00 PM	6.657	6.66			N/A
6/14/2019	CHFDKK	3:30:00 PM	6.659	6.66			N/A
6/14/2019	CHFDKK.fx	9:30:00 AM	6.6611	6.6667			N/A
6/14/2019	CHFDKK.fx	11:30:00 AM	6.6527	6.6567			N/A
6/14/2019	CHFDKK.fx	1:30:00 PM	6.6552	6.6608			N/A
6/14/2019	CHFDKK.fx	3:30:00 PM	6.6575	6.6616			N/A
6/14/2019	CHFHKD	9:30:00 AM	7.8751	7.879			N/A
6/14/2019	CHFHKD	11:30:00 AM	7.8649	7.8674			N/A

6/14/2019	CHFHKD	1:30:00 PM	7.8623	7.8654			N/A
6/14/2019	CHFHKD	3:30:00 PM	7.8635	7.8549			N/A
6/14/2019	CHFHUF	9:30:00 AM	287.12	287.5			N/A
6/14/2019	CHFHUF	11:30:00 AM	286.65	286.97			N/A
6/14/2019	CHFHUF	1:30:00 PM	286.5	286.77			N/A
6/14/2019	CHFHUF	3:30:00 PM	286.43	286.72			N/A
6/14/2019	CHFJPY	9:30:00 AM	108.946	109.007			N/A
6/14/2019	CHFJPY	11:30:00 AM	108.759	108.814			N/A
6/14/2019	CHFJPY	1:30:00 PM	108.661	108.729			N/A
6/14/2019	CHFJPY	3:30:00 PM	108.7	108.733			N/A
6/14/2019	CHFJPY.fx	9:30:00 AM	108.979	108.972			N/A
6/14/2019	CHFJPY.fx	11:30:00 AM	108.791	108.772			N/A
6/14/2019	CHFJPY.fx	1:30:00 PM	108.693	108.695			N/A
6/14/2019	CHFJPY.fx	3:30:00 PM	108.731	108.704			N/A
6/14/2019	CHFMXN	9:30:00 AM	19.3079	19.3228			N/A
6/14/2019	CHFMXN	11:30:00 AM	19.3213	19.3341			N/A
6/14/2019	CHFMXN	1:30:00 PM	19.2746	19.2898			N/A
6/14/2019	CHFMXN	3:30:00 PM	19.2311	19.2271			N/A
6/14/2019	CHFNOK	9:30:00 AM	8.7359	8.7431			N/A
6/14/2019	CHFNOK	11:30:00 AM	8.7182	8.7233			N/A
6/14/2019	CHFNOK	1:30:00 PM	8.7217	8.7289			N/A
6/14/2019	CHFNOK	3:30:00 PM	8.712	8.7164			N/A
6/14/2019	CHFNOK.fx	9:30:00 AM	8.73926	8.73952			N/A
6/14/2019	CHFNOK.fx	11:30:00 AM	8.72167	8.71984			N/A
6/14/2019	CHFNOK.fx	1:30:00 PM	8.72526	8.72531			N/A
6/14/2019	CHFNOK.fx	3:30:00 PM	8.71485	8.71303			N/A
6/14/2019	CHFPLN	9:30:00 AM	3.7958	3.7987			N/A
6/14/2019	CHFPLN	11:30:00 AM	3.7915	3.7938			N/A
6/14/2019	CHFPLN	1:30:00 PM	3.791	3.7939			N/A
6/14/2019	CHFPLN	3:30:00 PM	3.7923	3.7939			N/A
6/14/2019	CHFPLN.fx	9:30:00 AM	3.79326	3.80106			N/A
6/14/2019	CHFPLN.fx	11:30:00 AM	3.78924	3.79599			N/A
6/14/2019	CHFPLN.fx	1:30:00 PM	3.78866	3.79616			N/A
6/14/2019	CHFPLN.fx	3:30:00 PM	3.78942	3.79663			N/A

6/14/2019	CHFSEK	9:30:00 AM	9.5461	9.551			N/A
6/14/2019	CHFSEK	11:30:00 AM	9.4868	9.4899			N/A
6/14/2019	CHFSEK	1:30:00 PM	9.49	9.4928			N/A
6/14/2019	CHFSEK	3:30:00 PM	9.4828	9.4823			N/A
6/14/2019	CHFSGD	9:30:00 AM	1.3761	1.3764			N/A
6/14/2019	CHFSGD	11:30:00 AM	1.3745	1.3748			N/A
6/14/2019	CHFSGD	1:30:00 PM	1.3736	1.374			N/A
6/14/2019	CHFSGD	3:30:00 PM	1.3739	1.3726			N/A
6/14/2019	CHFSGD.fx	9:30:00 AM	1.37623	1.37617			N/A
6/14/2019	CHFSGD.fx	11:30:00 AM	1.37465	1.37447			N/A
6/14/2019	CHFSGD.fx	1:30:00 PM	1.37373	1.37377			N/A
6/14/2019	CHFSGD.fx	3:30:00 PM	1.3734	1.3724			N/A
6/14/2019	CHFZAR	9:30:00 AM	14.9249	14.9334			N/A
6/14/2019	CHFZAR	11:30:00 AM	14.9165	14.9296			N/A
6/14/2019	CHFZAR	1:30:00 PM	14.8799	14.8908			N/A
6/14/2019	CHFZAR	3:30:00 PM	14.831	14.8217			N/A
6/14/2019	CZKJPY	9:30:00 AM					N/A
6/14/2019	CZKJPY	11:30:00 AM					N/A
6/14/2019	CZKJPY	1:30:00 PM	4.775	4.778			N/A
6/14/2019	CZKJPY	3:30:00 PM	4.78	4.78			N/A
6/14/2019	DAX30.i	9:30:00 AM	12156.44	12155.19			N/A
6/14/2019	DAX30.i	11:30:00 AM	12089.19	12083.69			N/A
6/14/2019	DAX30.i	1:30:00 PM	12053.94	12049.69			N/A
6/14/2019	DAX30.i	3:30:00 PM	12091.44	12074.44			N/A
6/14/2019	DJ30.i	9:30:00 AM					N/A
6/14/2019	DJ30.i	11:30:00 AM					N/A
6/14/2019	DJ30.i	1:30:00 PM					N/A
6/14/2019	DJ30.i	3:30:00 PM					N/A
6/14/2019	DKKJPY	9:30:00 AM	16.35	16.37			N/A
6/14/2019	DKKJPY	11:30:00 AM					N/A
6/14/2019	DKKJPY	1:30:00 PM					N/A
6/14/2019	DKKJPY	3:30:00 PM	16.34	16.35			N/A
6/14/2019	EURAUD	9:30:00 AM	1.63412	1.63449			N/A
6/14/2019	EURAUD	11:30:00 AM	1.6352	1.63561			N/A

6/14/2019	EURAUD	1:30:00 PM	1.63251	1.63297			N/A
6/14/2019	EURAUD	3:30:00 PM	1.63195	1.63083			N/A
6/14/2019	EURAUD.fx	9:30:00 AM	1.63432	1.63427			N/A
6/14/2019	EURAUD.fx	11:30:00 AM	1.63541	1.63538			N/A
6/14/2019	EURAUD.fx	1:30:00 PM	1.63271	1.63275			N/A
6/14/2019	EURAUD.fx	3:30:00 PM	1.63189	1.63063			N/A
6/14/2019	EURCAD	9:30:00 AM	1.50397	1.50484			N/A
6/14/2019	EURCAD	11:30:00 AM	1.50457	1.50514			N/A
6/14/2019	EURCAD	1:30:00 PM	1.50229	1.50314			N/A
6/14/2019	EURCAD	3:30:00 PM	1.50141	1.50046			N/A
6/14/2019	EURCAD.fx	9:30:00 AM	1.50439	1.50442			N/A
6/14/2019	EURCAD.fx	11:30:00 AM	1.50499	1.50472			N/A
6/14/2019	EURCAD.fx	1:30:00 PM	1.50272	1.50271			N/A
6/14/2019	EURCAD.fx	3:30:00 PM	1.50156	1.50006			N/A
6/14/2019	EURCHF	9:30:00 AM	1.12057	1.12062			N/A
6/14/2019	EURCHF	11:30:00 AM	1.12224	1.12204			N/A
6/14/2019	EURCHF	1:30:00 PM	1.12154	1.12159			N/A
6/14/2019	EURCHF	3:30:00 PM	1.12146	1.12124			N/A
6/14/2019	EURCHF.fx	9:30:00 AM	1.12063	1.12056			N/A
6/14/2019	EURCHF.fx	11:30:00 AM	1.1223	1.12197			N/A
6/14/2019	EURCHF.fx	1:30:00 PM	1.12162	1.12153			N/A
6/14/2019	EURCHF.fx	3:30:00 PM	1.12149	1.12122			N/A
6/14/2019	EURCZK	9:30:00 AM	25.515	25.554			N/A
6/14/2019	EURCZK	11:30:00 AM	25.513	25.552			N/A
6/14/2019	EURCZK	1:30:00 PM	25.506	25.544			N/A
6/14/2019	EURCZK	3:30:00 PM	25.491	25.515			N/A
6/14/2019	EURDKK	9:30:00 AM					N/A
6/14/2019	EURDKK	11:30:00 AM					N/A
6/14/2019	EURDKK	1:30:00 PM	7.4644	7.4654			N/A
6/14/2019	EURDKK	3:30:00 PM	7.4656	7.4669			N/A
6/14/2019	EURGBP	9:30:00 AM	0.8895	0.88946			N/A
6/14/2019	EURGBP	11:30:00 AM	0.8908	0.89085			N/A
6/14/2019	EURGBP	1:30:00 PM	0.89046	0.89049			N/A
6/14/2019	EURGBP	3:30:00 PM	0.89099	0.89054			N/A

6/14/2019	EURGBP.fx	9:30:00 AM	0.88955	0.8894			N/A
6/14/2019	EURGBP.fx	11:30:00 AM	0.89083	0.89078			N/A
6/14/2019	EURGBP.fx	1:30:00 PM	0.8905	0.89043			N/A
6/14/2019	EURGBP.fx	3:30:00 PM	0.891	0.89051			N/A
6/14/2019	EURHKD	9:30:00 AM	8.8248	8.8299			N/A
6/14/2019	EURHKD	11:30:00 AM	8.8249	8.8298			N/A
6/14/2019	EURHKD	1:30:00 PM	8.8184	8.8229			N/A
6/14/2019	EURHKD	3:30:00 PM	8.8139	8.8076			N/A
6/14/2019	EURHKD.fx	9:30:00 AM	8.82755	8.82705			N/A
6/14/2019	EURHKD.fx	11:30:00 AM	8.82777	8.82698			N/A
6/14/2019	EURHKD.fx	1:30:00 PM	8.82125	8.82006			N/A
6/14/2019	EURHKD.fx	3:30:00 PM	8.81598	8.80498			N/A
6/14/2019	EURHUF	9:30:00 AM	321.64	322.29			N/A
6/14/2019	EURHUF	11:30:00 AM	321.55	322.25			N/A
6/14/2019	EURHUF	1:30:00 PM	321.31	322.02			N/A
6/14/2019	EURHUF	3:30:00 PM	321.25	321.92			N/A
6/14/2019	EURHUF.fx	9:30:00 AM	321.96	322.154			N/A
6/14/2019	EURHUF.fx	11:30:00 AM	321.82	322.008			N/A
6/14/2019	EURHUF.fx	1:30:00 PM	321.563	321.73			N/A
6/14/2019	EURHUF.fx	3:30:00 PM	321.53	321.655			N/A
6/14/2019	EURJPY	9:30:00 AM	122.119	122.123			N/A
6/14/2019	EURJPY	11:30:00 AM	122.065	122.057			N/A
6/14/2019	EURJPY	1:30:00 PM	121.909	121.905			N/A
6/14/2019	EURJPY	3:30:00 PM	121.939	121.888			N/A
6/14/2019	EURJPY.fx	9:30:00 AM	122.122	122.119			N/A
6/14/2019	EURJPY.fx	11:30:00 AM	122.068	122.053			N/A
6/14/2019	EURJPY.fx	1:30:00 PM	121.912	121.9			N/A
6/14/2019	EURJPY.fx	3:30:00 PM	121.941	121.883			N/A
6/14/2019	EURMXN	9:30:00 AM	21.6371	21.6574			N/A
6/14/2019	EURMXN	11:30:00 AM	21.6809	21.699			N/A
6/14/2019	EURMXN	1:30:00 PM	21.6216	21.6382			N/A
6/14/2019	EURMXN	3:30:00 PM	21.5631	21.5581			N/A
6/14/2019	EURMXN.f	9:30:00 AM	21.6452	21.6492			N/A
6/14/2019	EURMXN.f	11:30:00 AM	21.6894	21.6903			N/A

6/14/2019	EURMXN.fx	1:30:00 PM	21.6303	21.6296			N/A
6/14/2019	EURMXN.fx	3:30:00 PM	21.5663	21.5496			N/A
6/14/2019	EURNOK	9:30:00 AM	9.7874	9.7984			N/A
6/14/2019	EURNOK	11:30:00 AM	9.7801	9.7887			N/A
6/14/2019	EURNOK	1:30:00 PM	9.7801	9.7921			N/A
6/14/2019	EURNOK	3:30:00 PM	9.7667	9.7772			N/A
6/14/2019	EURNOK.fx	9:30:00 AM	9.79261	9.79298			N/A
6/14/2019	EURNOK.fx	11:30:00 AM	9.7857	9.7832			N/A
6/14/2019	EURNOK.fx	1:30:00 PM	9.78551	9.78654			N/A
6/14/2019	EURNOK.fx	3:30:00 PM	9.77162	9.77197			N/A
6/14/2019	EURNZD	9:30:00 AM	1.72524	1.72603			N/A
6/14/2019	EURNZD	11:30:00 AM	1.72515	1.72587			N/A
6/14/2019	EURNZD	1:30:00 PM	1.72365	1.72448			N/A
6/14/2019	EURNZD	3:30:00 PM	1.72403	1.72393			N/A
6/14/2019	EURNZD.fx	9:30:00 AM	1.72565	1.72561			N/A
6/14/2019	EURNZD.fx	11:30:00 AM	1.72557	1.72544			N/A
6/14/2019	EURNZD.fx	1:30:00 PM	1.72406	1.72404			N/A
6/14/2019	EURNZD.fx	3:30:00 PM	1.72441	1.72352			N/A
6/14/2019	EURPLN	9:30:00 AM	4.2536	4.2568			N/A
6/14/2019	EURPLN	11:30:00 AM	4.2545	4.2573			N/A
6/14/2019	EURPLN	1:30:00 PM	4.2519	4.255			N/A
6/14/2019	EURPLN	3:30:00 PM	4.2524	4.2544			N/A
6/14/2019	EURPLN.fx	9:30:00 AM	4.25277	4.25752			N/A
6/14/2019	EURPLN.fx	11:30:00 AM	4.25397	4.25783			N/A
6/14/2019	EURPLN.fx	1:30:00 PM	4.25134	4.25552			N/A
6/14/2019	EURPLN.fx	3:30:00 PM	4.25126	4.25573			N/A
6/14/2019	EURRUB	9:30:00 AM					N/A
6/14/2019	EURRUB	11:30:00 AM	72.345	72.786			N/A
6/14/2019	EURRUB	1:30:00 PM	72.238	72.66			N/A
6/14/2019	EURRUB	3:30:00 PM	71.977	72.328			N/A
6/14/2019	EURSEK	9:30:00 AM	10.6996	10.7037			N/A
6/14/2019	EURSEK	11:30:00 AM	10.646	10.6495			N/A
6/14/2019	EURSEK	1:30:00 PM	10.6445	10.6496			N/A
6/14/2019	EURSEK	3:30:00 PM	10.635	10.6369			N/A

6/14/2019	EURSEK.fx	9:30:00 AM	10.70131	10.70202			N/A
6/14/2019	EURSEK.fx	11:30:00 AM	10.64764	10.64774			N/A
6/14/2019	EURSEK.fx	1:30:00 PM	10.64619	10.64792			N/A
6/14/2019	EURSEK.fx	3:30:00 PM	10.63659	10.63693			N/A
6/14/2019	EURSGD	9:30:00 AM	1.5418	1.5426			N/A
6/14/2019	EURSGD	11:30:00 AM	1.5421	1.5427			N/A
6/14/2019	EURSGD	1:30:00 PM	1.5404	1.5411			N/A
6/14/2019	EURSGD	3:30:00 PM	1.54	1.5392			N/A
6/14/2019	EURSGD.fx	9:30:00 AM	1.54213	1.54222			N/A
6/14/2019	EURSGD.fx	11:30:00 AM	1.54243	1.54225			N/A
6/14/2019	EURSGD.fx	1:30:00 PM	1.54078	1.54072			N/A
6/14/2019	EURSGD.fx	3:30:00 PM	1.54042	1.53875			N/A
6/14/2019	EURUSD	9:30:00 AM	1.12738	1.12746			N/A
6/14/2019	EURUSD	11:30:00 AM	1.12794	1.12795			N/A
6/14/2019	EURUSD	1:30:00 PM	1.12672	1.12673			N/A
6/14/2019	EURUSD	3:30:00 PM	1.12615	1.12479	10	100	N/A
6/14/2019	EURUSD.fx	9:30:00 AM	1.12759	1.12755			N/A
6/14/2019	EURUSD.fx	11:30:00 AM	1.12814	1.12804			N/A
6/14/2019	EURUSD.fx	1:30:00 PM	1.12692	1.12682			N/A
6/14/2019	EURUSD.fx	3:30:00 PM	1.12634	1.1249			N/A
6/14/2019	EURZAR	9:30:00 AM	16.7287	16.7417			N/A
6/14/2019	EURZAR	11:30:00 AM	16.7406	16.7594			N/A
6/14/2019	EURZAR	1:30:00 PM	16.6942	16.7126			N/A
6/14/2019	EURZAR	3:30:00 PM	16.6348	16.6338			N/A
6/14/2019	EURZAR.fx	9:30:00 AM	16.72742	16.74311			N/A
6/14/2019	EURZAR.fx	11:30:00 AM	16.73956	16.76052			N/A
6/14/2019	EURZAR.fx	1:30:00 PM	16.69361	16.71323			N/A
6/14/2019	EURZAR.fx	3:30:00 PM	16.63104	16.63516			N/A
6/14/2019	GBPAUD	9:30:00 AM	1.8377	1.83833			N/A
6/14/2019	GBPAUD	11:30:00 AM	1.83624	1.83684			N/A
6/14/2019	GBPAUD	1:30:00 PM	1.83394	1.83461			N/A
6/14/2019	GBPAUD	3:30:00 PM	1.83254	1.83147			N/A
6/14/2019	GBPAUD.fx	9:30:00 AM	1.8381	1.83791			N/A
6/14/2019	GBPAUD.fx	11:30:00 AM	1.83665	1.83644			N/A

6/14/2019	GBPAUD.fx	1:30:00 PM	1.83435	1.83421			N/A
6/14/2019	GBPAUD.fx	3:30:00 PM	1.83283	1.83111			N/A
6/14/2019	GBPCAD	9:30:00 AM	1.69098	1.69158			N/A
6/14/2019	GBPCAD	11:30:00 AM	1.68911	1.68967			N/A
6/14/2019	GBPCAD	1:30:00 PM	1.68722	1.68793			N/A
6/14/2019	GBPCAD	3:30:00 PM	1.68542	1.68421			N/A
6/14/2019	GBPCAD.fx	9:30:00 AM	1.69138	1.69119			N/A
6/14/2019	GBPCAD.fx	11:30:00 AM	1.68952	1.68927			N/A
6/14/2019	GBPCAD.fx	1:30:00 PM	1.68762	1.68752			N/A
6/14/2019	GBPCAD.fx	3:30:00 PM	1.68565	1.68383			N/A
6/14/2019	GBPCHF	9:30:00 AM	1.2597	1.25994			N/A
6/14/2019	GBPCHF	11:30:00 AM	1.25949	1.25975			N/A
6/14/2019	GBPCHF	1:30:00 PM	1.25929	1.25974			N/A
6/14/2019	GBPCHF	3:30:00 PM	1.25904	1.25873			N/A
6/14/2019	GBPCHF.fx	9:30:00 AM	1.25989	1.25972			N/A
6/14/2019	GBPCHF.fx	11:30:00 AM	1.25968	1.25954			N/A
6/14/2019	GBPCHF.fx	1:30:00 PM	1.25948	1.25952			N/A
6/14/2019	GBPCHF.fx	3:30:00 PM	1.2592	1.25867			N/A
6/14/2019	GBPCZK	9:30:00 AM	28.697	28.715			N/A
6/14/2019	GBPCZK	11:30:00 AM	28.652	28.672			N/A
6/14/2019	GBPCZK	1:30:00 PM	28.654	28.673			N/A
6/14/2019	GBPCZK	3:30:00 PM	28.632	28.63			N/A
6/14/2019	GBPDKK	9:30:00 AM	8.391	8.401			N/A
6/14/2019	GBPDKK	11:30:00 AM	8.378	8.389			N/A
6/14/2019	GBPDKK	1:30:00 PM	8.381	8.392			N/A
6/14/2019	GBPDKK	3:30:00 PM	8.381	8.387			N/A
6/14/2019	GBPDKK.fx	9:30:00 AM	8.3899	8.4012			N/A
6/14/2019	GBPDKK.fx	11:30:00 AM	8.3765	8.3887			N/A
6/14/2019	GBPDKK.fx	1:30:00 PM	8.3798	8.392			N/A
6/14/2019	GBPDKK.fx	3:30:00 PM	8.3795	8.3877			N/A
6/14/2019	GBPHKD	9:30:00 AM	9.9194	9.9235			N/A
6/14/2019	GBPHKD	11:30:00 AM	9.9048	9.9087			N/A
6/14/2019	GBPHKD	1:30:00 PM	9.9005	9.9053			N/A
6/14/2019	GBPHKD	3:30:00 PM	9.8926	9.8872			N/A

6/14/2019	GBPHUF	9:30:00 AM	361.67	362.11			N/A
6/14/2019	GBPHUF	11:30:00 AM	360.99	361.46			N/A
6/14/2019	GBPHUF	1:30:00 PM	360.82	361.11			N/A
6/14/2019	GBPHUF	3:30:00 PM	360.52	360.79			N/A
6/14/2019	GBPJPY	9:30:00 AM	137.291	137.298			N/A
6/14/2019	GBPJPY	11:30:00 AM	137.015	137.046			N/A
6/14/2019	GBPJPY	1:30:00 PM	136.88	136.924			N/A
6/14/2019	GBPJPY	3:30:00 PM	136.878	136.861			N/A
6/14/2019	GBPJPY.fx	9:30:00 AM	137.312	137.279			N/A
6/14/2019	GBPJPY.fx	11:30:00 AM	137.036	137.025			N/A
6/14/2019	GBPJPY.fx	1:30:00 PM	136.901	136.902			N/A
6/14/2019	GBPJPY.fx	3:30:00 PM	136.895	136.843			N/A
6/14/2019	GBPMXN	9:30:00 AM	24.3228	24.3344			N/A
6/14/2019	GBPMXN	11:30:00 AM	24.3345	24.3493			N/A
6/14/2019	GBPMXN	1:30:00 PM	24.2743	24.2892			N/A
6/14/2019	GBPMXN	3:30:00 PM	24.2006	24.2035			N/A
6/14/2019	GBPNOK	9:30:00 AM	11.0048	11.0154			N/A
6/14/2019	GBPNOK	11:30:00 AM	10.9803	10.9882			N/A
6/14/2019	GBPNOK	1:30:00 PM	10.9849	10.9952			N/A
6/14/2019	GBPNOK	3:30:00 PM	10.9678	10.9721			N/A
6/14/2019	GBPNOK.fx	9:30:00 AM	11.00954	11.01063			N/A
6/14/2019	GBPNOK.fx	11:30:00 AM	10.98554	10.98328			N/A
6/14/2019	GBPNOK.fx	1:30:00 PM	10.99022	10.98997			N/A
6/14/2019	GBPNOK.fx	3:30:00 PM	10.97252	10.96721			N/A
6/14/2019	GBPNZD	9:30:00 AM	1.93971	1.94025			N/A
6/14/2019	GBPNZD	11:30:00 AM	1.93683	1.93738			N/A
6/14/2019	GBPNZD	1:30:00 PM	1.93582	1.93652			N/A
6/14/2019	GBPNZD	3:30:00 PM	1.93567	1.93492			N/A
6/14/2019	GBPNZD.fx	9:30:00 AM	1.94009	1.93988			N/A
6/14/2019	GBPNZD.fx	11:30:00 AM	1.93718	1.93702			N/A
6/14/2019	GBPNZD.fx	1:30:00 PM	1.93619	1.93613			N/A
6/14/2019	GBPNZD.fx	3:30:00 PM	1.93596	1.93459			N/A
6/14/2019	GBPPLN	9:30:00 AM	4.7833	4.7844			N/A
6/14/2019	GBPPLN	11:30:00 AM	4.7765	4.778			N/A

6/14/2019	GBPPLN	1:30:00 PM	4.776	4.7775			N/A
6/14/2019	GBPPLN	3:30:00 PM	4.7754	4.7747			N/A
6/14/2019	GBPPLN.fx	9:30:00 AM	4.78097	4.78666			N/A
6/14/2019	GBPPLN.fx	11:30:00 AM	4.77446	4.78006			N/A
6/14/2019	GBPPLN.fx	1:30:00 PM	4.77386	4.77953			N/A
6/14/2019	GBPPLN.fx	3:30:00 PM	4.77286	4.77698			N/A
6/14/2019	GBPSEK	9:30:00 AM	12.0264	12.0347			N/A
6/14/2019	GBPSEK	11:30:00 AM	11.9487	11.9568			N/A
6/14/2019	GBPSEK	1:30:00 PM	11.9527	11.9611			N/A
6/14/2019	GBPSEK	3:30:00 PM	11.9408	11.9431			N/A
6/14/2019	GBPSEK.fx	9:30:00 AM	12.02339	12.03829			N/A
6/14/2019	GBPSEK.fx	11:30:00 AM	11.94525	11.96018			N/A
6/14/2019	GBPSEK.fx	1:30:00 PM	11.94957	11.96429			N/A
6/14/2019	GBPSEK.fx	3:30:00 PM	11.93687	11.94717			N/A
6/14/2019	GBPSGD	9:30:00 AM	1.7335	1.734			N/A
6/14/2019	GBPSGD	11:30:00 AM	1.7312	1.7318			N/A
6/14/2019	GBPSGD	1:30:00 PM	1.7299	1.7307			N/A
6/14/2019	GBPSGD	3:30:00 PM	1.7287	1.728			N/A
6/14/2019	GBPSGD.fx	9:30:00 AM	1.73168	1.73585			N/A
6/14/2019	GBPSGD.fx	11:30:00 AM	1.72935	1.73358			N/A
6/14/2019	GBPSGD.fx	1:30:00 PM	1.72807	1.73252			N/A
6/14/2019	GBPSGD.fx	3:30:00 PM	1.72649	1.72979			N/A
6/14/2019	GBPUSD	9:30:00 AM	1.26769	1.26754			N/A
6/14/2019	GBPUSD	11:30:00 AM	1.26639	1.26633			N/A
6/14/2019	GBPUSD	1:30:00 PM	1.26549	1.26554			N/A
6/14/2019	GBPUSD	3:30:00 PM	1.26427	1.2631	30		N/A
6/14/2019	GBPUSD.fx	9:30:00 AM	1.26775	1.26748			N/A
6/14/2019	GBPUSD.fx	11:30:00 AM	1.26645	1.26627			N/A
6/14/2019	GBPUSD.fx	1:30:00 PM	1.26555	1.26548			N/A
6/14/2019	GBPUSD.fx	3:30:00 PM	1.26429	1.26306			N/A
6/14/2019	GBPZAR	9:30:00 AM	18.8039	18.822			N/A
6/14/2019	GBPZAR	11:30:00 AM	18.7889	18.8167			N/A
6/14/2019	GBPZAR	1:30:00 PM	18.7422	18.7725			N/A
6/14/2019	GBPZAR	3:30:00 PM	18.6705	18.6732			N/A

6/14/2019	GBPZAR.fx	9:30:00 AM	18.811	18.8154			N/A
6/14/2019	GBPZAR.fx	11:30:00 AM	18.7965	18.8091			N/A
6/14/2019	GBPZAR.fx	1:30:00 PM	18.7503	18.7646			N/A
6/14/2019	GBPZAR.fx	3:30:00 PM	18.6762	18.6671			N/A
6/14/2019	GOLD	9:30:00 AM	1353.06	1352.53			N/A
6/14/2019	GOLD	11:30:00 AM	1355.51	1355.75			N/A
6/14/2019	GOLD	1:30:00 PM	1355.35	1355.51			N/A
6/14/2019	GOLD	3:30:00 PM	1354.67	1352.27			N/A
6/14/2019	HKDJPY	9:30:00 AM	13.84	13.84			N/A
6/14/2019	HKDJPY	11:30:00 AM	13.83	13.84			N/A
6/14/2019	HKDJPY	1:30:00 PM					N/A
6/14/2019	HKDJPY	3:30:00 PM	13.84	13.84			N/A
6/14/2019	HKDJPY.fx	9:30:00 AM	13.83	13.837			N/A
6/14/2019	HKDJPY.fx	11:30:00 AM	13.824	13.83			N/A
6/14/2019	HKDJPY.fx	1:30:00 PM	13.816	13.823			N/A
6/14/2019	HKDJPY.fx	3:30:00 PM	13.838	13.834			N/A
6/14/2019	HUFJPY	9:30:00 AM	0.3794	0.3797			N/A
6/14/2019	HUFJPY	11:30:00 AM	0.3796	0.3799			N/A
6/14/2019	HUFJPY	1:30:00 PM	0.3794	0.3796			N/A
6/14/2019	HUFJPY	3:30:00 PM	0.3795	0.3798			N/A
6/14/2019	JP225.i	9:30:00 AM	21080.32	21090.32			N/A
6/14/2019	JP225.i	11:30:00 AM	21017.82	21030.32			N/A
6/14/2019	JP225.i	1:30:00 PM	20980.32	20995.32			N/A
6/14/2019	JP225.i	3:30:00 PM	21025.32	21012.82			N/A
6/14/2019	MXNJPY	9:30:00 AM					N/A
6/14/2019	MXNJPY	11:30:00 AM	5.63	5.64			N/A
6/14/2019	MXNJPY	1:30:00 PM	5.64	5.66			N/A
6/14/2019	MXNJPY	3:30:00 PM	5.66	5.66			N/A
6/14/2019	NASDAQ.i	9:30:00 AM					N/A
6/14/2019	NASDAQ.i	11:30:00 AM					N/A
6/14/2019	NASDAQ.i	1:30:00 PM					N/A
6/14/2019	NASDAQ.i	3:30:00 PM					N/A
6/14/2019	NOKJPY	9:30:00 AM	12.46	12.49			N/A
6/14/2019	NOKJPY	11:30:00 AM	12.46	12.49			N/A

6/14/2019	NOKJPY	1:30:00 PM	12.45	12.49			N/A
6/14/2019	NOKJPY	3:30:00 PM	12.47	12.49			N/A
6/14/2019	NOKJPY.fx	9:30:00 AM	12.467	12.473			N/A
6/14/2019	NOKJPY.fx	11:30:00 AM	12.472	12.477			N/A
6/14/2019	NOKJPY.fx	1:30:00 PM	12.454	12.46			N/A
6/14/2019	NOKJPY.fx	3:30:00 PM	12.476	12.476			N/A
6/14/2019	NZDCAD	9:30:00 AM	0.87142	0.87216			N/A
6/14/2019	NZDCAD	11:30:00 AM	0.87183	0.87244			N/A
6/14/2019	NZDCAD	1:30:00 PM	0.87125	0.87195			N/A
6/14/2019	NZDCAD	3:30:00 PM	0.87072	0.87071			N/A
6/14/2019	NZDCAD.fx	9:30:00 AM	0.87175	0.87182			N/A
6/14/2019	NZDCAD.fx	11:30:00 AM	0.87217	0.87209			N/A
6/14/2019	NZDCAD.fx	1:30:00 PM	0.87159	0.87161			N/A
6/14/2019	NZDCAD.fx	3:30:00 PM	0.87088	0.87038			N/A
6/14/2019	NZDCHF	9:30:00 AM	0.64905	0.64972			N/A
6/14/2019	NZDCHF	11:30:00 AM	0.64997	0.65062			N/A
6/14/2019	NZDCHF	1:30:00 PM	0.65015	0.65089			N/A
6/14/2019	NZDCHF	3:30:00 PM	0.65032	0.6506			N/A
6/14/2019	NZDCHF.fx	9:30:00 AM	0.64939	0.64936			N/A
6/14/2019	NZDCHF.fx	11:30:00 AM	0.65035	0.65027			N/A
6/14/2019	NZDCHF.fx	1:30:00 PM	0.6505	0.65052			N/A
6/14/2019	NZDCHF.fx	3:30:00 PM	0.65064	0.65031			N/A
6/14/2019	NZDCZK	9:30:00 AM	14.79	14.803			N/A
6/14/2019	NZDCZK	11:30:00 AM	14.79	14.803			N/A
6/14/2019	NZDCZK	1:30:00 PM	14.799	14.809			N/A
6/14/2019	NZDCZK	3:30:00 PM	14.791	14.792			N/A
6/14/2019	NZDDKK	9:30:00 AM	4.326	4.329			N/A
6/14/2019	NZDDKK	11:30:00 AM					N/A
6/14/2019	NZDDKK	1:30:00 PM	4.329	4.331			N/A
6/14/2019	NZDDKK	3:30:00 PM	4.328	4.33			N/A
6/14/2019	NZDHKD	9:30:00 AM	5.1128	5.1155			N/A
6/14/2019	NZDHKD	11:30:00 AM	5.1131	5.1156			N/A
6/14/2019	NZDHKD	1:30:00 PM	5.1127	5.1153			N/A
6/14/2019	NZDHKD	3:30:00 PM	5.1103	5.1068			N/A

6/14/2019	NZDHUF	9:30:00 AM	186.38	186.67			N/A
6/14/2019	NZDHUF	11:30:00 AM	186.32	186.62			N/A
6/14/2019	NZDHUF	1:30:00 PM	186.3	186.52			N/A
6/14/2019	NZDHUF	3:30:00 PM	186.2	186.41			N/A
6/14/2019	NZDJPY	9:30:00 AM	70.737	70.803			N/A
6/14/2019	NZDJPY	11:30:00 AM	70.705	70.777			N/A
6/14/2019	NZDJPY	1:30:00 PM	70.674	70.743			N/A
6/14/2019	NZDJPY	3:30:00 PM	70.707	70.724			N/A
6/14/2019	NZDJPY.fx	9:30:00 AM	70.769	70.77			N/A
6/14/2019	NZDJPY.fx	11:30:00 AM	70.736	70.744			N/A
6/14/2019	NZDJPY.fx	1:30:00 PM	70.705	70.711			N/A
6/14/2019	NZDJPY.fx	3:30:00 PM	70.738	70.693			N/A
6/14/2019	NZDMXN	9:30:00 AM	12.5363	12.5423			N/A
6/14/2019	NZDMXN	11:30:00 AM	12.5621	12.5686			N/A
6/14/2019	NZDMXN	1:30:00 PM	12.5373	12.5423			N/A
6/14/2019	NZDMXN	3:30:00 PM	12.5019	12.5016			N/A
6/14/2019	NZDNOK	9:30:00 AM	5.671	5.6749			N/A
6/14/2019	NZDNOK	11:30:00 AM	5.6676	5.6697			N/A
6/14/2019	NZDNOK	1:30:00 PM	5.6717	5.6731			N/A
6/14/2019	NZDNOK	3:30:00 PM	5.6619	5.6639			N/A
6/14/2019	NZDPLN	9:30:00 AM	2.4647	2.4659			N/A
6/14/2019	NZDPLN	11:30:00 AM	2.4645	2.4659			N/A
6/14/2019	NZDPLN	1:30:00 PM	2.4655	2.4666			N/A
6/14/2019	NZDPLN	3:30:00 PM	2.4641	2.4647			N/A
6/14/2019	NZDSEK	9:30:00 AM	6.1957	6.2025			N/A
6/14/2019	NZDSEK	11:30:00 AM	6.1646	6.1715			N/A
6/14/2019	NZDSEK	1:30:00 PM	6.1695	6.1758			N/A
6/14/2019	NZDSEK	3:30:00 PM	6.164	6.1668			N/A
6/14/2019	NZDSGD	9:30:00 AM	0.8934	0.894			N/A
6/14/2019	NZDSGD	11:30:00 AM	0.8936	0.8942			N/A
6/14/2019	NZDSGD	1:30:00 PM	0.8933	0.894			N/A
6/14/2019	NZDSGD	3:30:00 PM	0.893	0.893			N/A
6/14/2019	NZDSGD.fx	9:30:00 AM	0.89338	0.89398			N/A
6/14/2019	NZDSGD.fx	11:30:00 AM	0.89358	0.89411			N/A

6/14/2019	NZDSGD.fx	1:30:00 PM	0.89338	0.89395			N/A
6/14/2019	NZDSGD.fx	3:30:00 PM	0.89268	0.89294			N/A
6/14/2019	NZDUSD	9:30:00 AM	0.65329	0.65345			N/A
6/14/2019	NZDUSD	11:30:00 AM	0.65367	0.65379			N/A
6/14/2019	NZDUSD	1:30:00 PM	0.6535	0.65362			N/A
6/14/2019	NZDUSD	3:30:00 PM	0.65304	0.65252			N/A
6/14/2019	NZDUSD.fx	9:30:00 AM	0.65339	0.65346			N/A
6/14/2019	NZDUSD.fx	11:30:00 AM	0.65374	0.65381			N/A
6/14/2019	NZDUSD.fx	1:30:00 PM	0.65357	0.65364			N/A
6/14/2019	NZDUSD.fx	3:30:00 PM	0.65309	0.65253			N/A
6/14/2019	NZDZAR	9:30:00 AM	9.6862	9.6988			N/A
6/14/2019	NZDZAR	11:30:00 AM	9.6938	9.7108			N/A
6/14/2019	NZDZAR	1:30:00 PM	9.6724	9.6877			N/A
6/14/2019	NZDZAR	3:30:00 PM	9.6373	9.6398			N/A
6/14/2019	SEKJPY	9:30:00 AM					N/A
6/14/2019	SEKJPY	11:30:00 AM	11.46	11.47			N/A
6/14/2019	SEKJPY	1:30:00 PM	11.45	11.46			N/A
6/14/2019	SEKJPY	3:30:00 PM	11.46	11.47			N/A
6/14/2019	SEKJPY.fx	9:30:00 AM	11.402	11.42			N/A
6/14/2019	SEKJPY.fx	11:30:00 AM	11.455	11.472			N/A
6/14/2019	SEKJPY.fx	1:30:00 PM	11.441	11.458			N/A
6/14/2019	SEKJPY.fx	3:30:00 PM	11.454	11.469			N/A
6/14/2019	SGDJPY	9:30:00 AM	79.15	79.18			N/A
6/14/2019	SGDJPY	11:30:00 AM	79.11	79.14			N/A
6/14/2019	SGDJPY	1:30:00 PM	79.09	79.12			N/A
6/14/2019	SGDJPY	3:30:00 PM	79.18	79.15			N/A
6/14/2019	SILVER	9:30:00 AM	14.8	15.17			N/A
6/14/2019	SILVER	11:30:00 AM	14.84	15.22			N/A
6/14/2019	SILVER	1:30:00 PM	14.87	15.24			N/A
6/14/2019	SILVER	3:30:00 PM	14.91	15.25			N/A
6/14/2019	SPX500.i	9:30:00 AM	2892.49	2893			N/A
6/14/2019	SPX500.i	11:30:00 AM	2886	2886.25			N/A
6/14/2019	SPX500.i	1:30:00 PM	2881.7	2882.5			N/A
6/14/2019	SPX500.i	3:30:00 PM	2888.89	2887.65			N/A

6/14/2019	UK100.i	9:30:00 AM	7373.3	7374.8			N/A
6/14/2019	UK100.i	11:30:00 AM	7343.55	7343.3			N/A
6/14/2019	UK100.i	1:30:00 PM	7325.05	7325.05			N/A
6/14/2019	UK100.i	3:30:00 PM	7341.05	7336.22			N/A
6/14/2019	USDCAD	9:30:00 AM	1.33419	1.33428			N/A
6/14/2019	USDCAD	11:30:00 AM	1.33404	1.33403			N/A
6/14/2019	USDCAD	1:30:00 PM	1.33355	1.33359			N/A
6/14/2019	USDCAD	3:30:00 PM	1.33404	1.33314			N/A
6/14/2019	USDCAD.fx	9:30:00 AM	1.33423	1.33424			N/A
6/14/2019	USDCAD.fx	11:30:00 AM	1.33407	1.33399			N/A
6/14/2019	USDCAD.fx	1:30:00 PM	1.33359	1.33356			N/A
6/14/2019	USDCAD.fx	3:30:00 PM	1.33405	1.33312			N/A
6/14/2019	USDCHF	9:30:00 AM	0.99381	0.99382			N/A
6/14/2019	USDCHF	11:30:00 AM	0.99475	0.99463			N/A
6/14/2019	USDCHF	1:30:00 PM	0.99524	0.99532			N/A
6/14/2019	USDCHF	3:30:00 PM	0.9967	0.99574			N/A
6/14/2019	USDCHF.fx	9:30:00 AM	0.99386	0.99376			N/A
6/14/2019	USDCHF.fx	11:30:00 AM	0.9948	0.99457			N/A
6/14/2019	USDCHF.fx	1:30:00 PM	0.99529	0.99526			N/A
6/14/2019	USDCHF.fx	3:30:00 PM	0.99675	0.99576	1000	1000	N/A
6/14/2019	USDCZK	9:30:00 AM	22.655	22.678			N/A
6/14/2019	USDCZK	11:30:00 AM	22.643	22.664			N/A
6/14/2019	USDCZK	1:30:00 PM	22.661	22.681			N/A
6/14/2019	USDCZK	3:30:00 PM	22.684	22.675			N/A
6/14/2019	USDCZK.fx	9:30:00 AM	22.6627	22.6696			N/A
6/14/2019	USDCZK.fx	11:30:00 AM	22.653	22.6546			N/A
6/14/2019	USDCZK.fx	1:30:00 PM	22.6693	22.672			N/A
6/14/2019	USDCZK.fx	3:30:00 PM	22.6914	22.6726			N/A
6/14/2019	USDDKK	9:30:00 AM	6.6216	6.6257			N/A
6/14/2019	USDDKK	11:30:00 AM	6.6186	6.6222			N/A
6/14/2019	USDDKK	1:30:00 PM	6.6259	6.6292			N/A
6/14/2019	USDDKK	3:30:00 PM	6.6371	6.6327			N/A
6/14/2019	USDDKK.fx	9:30:00 AM	6.62206	6.62344			N/A
6/14/2019	USDDKK.fx	11:30:00 AM	6.61917	6.62012			N/A

6/14/2019	USDDKK.fx	1:30:00 PM	6.6263	6.62712			N/A
6/14/2019	USDDKK.fx	3:30:00 PM	6.63766	6.63124			N/A
6/14/2019	USDHKD	9:30:00 AM	7.8284	7.8289			N/A
6/14/2019	USDHKD	11:30:00 AM	7.8256	7.8251			N/A
6/14/2019	USDHKD	1:30:00 PM	7.827	7.827			N/A
6/14/2019	USDHKD	3:30:00 PM	7.8276	7.8277			N/A
6/14/2019	USDHKD.fx	9:30:00 AM	7.82829	7.82888			N/A
6/14/2019	USDHKD.fx	11:30:00 AM	7.82543	7.82532			N/A
6/14/2019	USDHKD.fx	1:30:00 PM					N/A
6/14/2019	USDHKD.fx	3:30:00 PM	7.82748	7.82776			N/A
6/14/2019	USDHUF	9:30:00 AM	285.38	285.86			N/A
6/14/2019	USDHUF	11:30:00 AM	285.14	285.6			N/A
6/14/2019	USDHUF	1:30:00 PM	285.22	285.67			N/A
6/14/2019	USDHUF	3:30:00 PM	285.62	285.7			N/A
6/14/2019	USDHUF.fx	9:30:00 AM	285.573	285.657			N/A
6/14/2019	USDHUF.fx	11:30:00 AM	285.333	285.396			N/A
6/14/2019	USDHUF.fx	1:30:00 PM	285.426	285.455			N/A
6/14/2019	USDHUF.fx	3:30:00 PM	285.804	285.539			N/A
6/14/2019	USDINR	9:30:00 AM	64.55	74.55			N/A
6/14/2019	USDINR	11:30:00 AM	64.63	74.62			N/A
6/14/2019	USDINR	1:30:00 PM					N/A
6/14/2019	USDINR	3:30:00 PM					N/A
6/14/2019	USDJPY	9:30:00 AM	108.302	108.307			N/A
6/14/2019	USDJPY	11:30:00 AM	108.202	108.206			N/A
6/14/2019	USDJPY	1:30:00 PM	108.175	108.187			N/A
6/14/2019	USDJPY	3:30:00 PM	108.357	108.221			N/A
6/14/2019	USDJPY.fx	9:30:00 AM	108.308	108.3			N/A
6/14/2019	USDJPY.fx	11:30:00 AM	108.208	108.199			N/A
6/14/2019	USDJPY.fx	1:30:00 PM	108.18	108.18			N/A
6/14/2019	USDJPY.fx	3:30:00 PM	108.359	108.221			N/A
6/14/2019	USDMXN	9:30:00 AM	19.194	19.202			N/A
6/14/2019	USDMXN	11:30:00 AM	19.223	19.232			N/A
6/14/2019	USDMXN	1:30:00 PM	19.19	19.199			N/A
6/14/2019	USDMXN	3:30:00 PM	19.163	19.154			N/A

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6/14/2019	USDMXN.f	11:30:00 AM					N/A
6/14/2019	USDMXN.f	1:30:00 PM					N/A
6/14/2019	USDMXN.f	3:30:00 PM					N/A
6/14/2019	USDNOK	9:30:00 AM	8.6817	8.6892			N/A
6/14/2019	USDNOK	11:30:00 AM	8.6707	8.6772			N/A
6/14/2019	USDNOK	1:30:00 PM	8.6806	8.6883			N/A
6/14/2019	USDNOK	3:30:00 PM	8.6827	8.6798			N/A
6/14/2019	USDNOK.fx	9:30:00 AM	8.68544	8.68479			N/A
6/14/2019	USDNOK.fx	11:30:00 AM	8.67477	8.6727			N/A
6/14/2019	USDNOK.fx	1:30:00 PM	8.68477	8.68381			N/A
6/14/2019	USDNOK.fx	3:30:00 PM	8.6864	8.67628			N/A
6/14/2019	USDPLN	9:30:00 AM	3.7731	3.7746			N/A
6/14/2019	USDPLN	11:30:00 AM	3.7719	3.7732			N/A
6/14/2019	USDPLN	1:30:00 PM	3.7741	3.7753			N/A
6/14/2019	USDPLN	3:30:00 PM	3.7802	3.7756			N/A
6/14/2019	USDPLN.fx	9:30:00 AM	3.77218	3.77543			N/A
6/14/2019	USDPLN.fx	11:30:00 AM	3.77108	3.77394			N/A
6/14/2019	USDPLN.fx	1:30:00 PM	3.7733	3.77594			N/A
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6/14/2019	USDRUB	9:30:00 AM					N/A
6/14/2019	USDRUB	11:30:00 AM	64.243	64.635			N/A
6/14/2019	USDRUB	1:30:00 PM	64.219	64.586			N/A
6/14/2019	USDRUB	3:30:00 PM	64.075	64.436			N/A
6/14/2019	USDSEK	9:30:00 AM	9.4886	9.4925			N/A
6/14/2019	USDSEK	11:30:00 AM	9.4366	9.4402			N/A
6/14/2019	USDSEK	1:30:00 PM	9.4463	9.4499			N/A
6/14/2019	USDSEK	3:30:00 PM	9.4532	9.4459			N/A
6/14/2019	USDSEK.fx	9:30:00 AM	9.49112	9.49069			N/A
6/14/2019	USDSEK.fx	11:30:00 AM	9.43918	9.43823			N/A
6/14/2019	USDSEK.fx	1:30:00 PM	9.44891	9.44794			N/A
6/14/2019	USDSEK.fx	3:30:00 PM	9.45603	9.4456			N/A
6/14/2019	USDSGD	9:30:00 AM	1.3675	1.3679			N/A
6/14/2019	USDSGD	11:30:00 AM	1.3671	1.3674			N/A

6/14/2019	USDSGD	1:30:00 PM	1.3671	1.3675			N/A
6/14/2019	USDSGD	3:30:00 PM	1.3678	1.3677			N/A
6/14/2019	USDSGD.fx	9:30:00 AM	1.36747	1.36793			N/A
6/14/2019	USDSGD.fx	11:30:00 AM	1.36709	1.36742			N/A
6/14/2019	USDSGD.fx	1:30:00 PM	1.36703	1.36752			N/A
6/14/2019	USDSGD.fx	3:30:00 PM	1.36775	1.36776			N/A
6/14/2019	USDZAR	9:30:00 AM	14.8343	14.8463			N/A
6/14/2019	USDZAR	11:30:00 AM	14.8373	14.8553			N/A
6/14/2019	USDZAR	1:30:00 PM	14.8118	14.8312			N/A
6/14/2019	USDZAR	3:30:00 PM	14.7824	14.7777			N/A
6/14/2019	USDZAR.fx	9:30:00 AM					N/A
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6/14/2019	USDZAR.fx	1:30:00 PM					N/A
6/14/2019	USDZAR.fx	3:30:00 PM					N/A
6/14/2019	XAUUSD	9:30:00 AM	1353.03	1352.53			N/A
6/14/2019	XAUUSD	11:30:00 AM	1355.52	1355.75			N/A
6/14/2019	XAUUSD	1:30:00 PM	1355.37	1355.51			N/A
6/14/2019	XAUUSD	3:30:00 PM	1354.72	1352.09			N/A
6/14/2019	ZARJPY	9:30:00 AM	7.27	7.3			N/A
6/14/2019	ZARJPY	11:30:00 AM	7.26	7.29			N/A
6/14/2019	ZARJPY	1:30:00 PM	7.28	7.3			N/A
6/14/2019	ZARJPY	3:30:00 PM	7.32	7.33			N/A
6/14/2019	ZARJPY.fx	9:30:00 AM	7.296	7.298			N/A
6/14/2019	ZARJPY.fx	11:30:00 AM	7.285	7.289			N/A
6/14/2019	ZARJPY.fx	1:30:00 PM	7.296	7.3			N/A
6/14/2019	ZARJPY.fx	3:30:00 PM	7.332	7.327			N/A
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6/17/2019	#JNJ	3:30:00 PM					N/A
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6/17/2019	#KO	3:30:00 PM					N/A
6/17/2019	#Litecoin	9:30:00 AM	134.99	135.63			N/A
6/17/2019	#Litecoin	11:30:00 AM	135.77	136.23			N/A
6/17/2019	#Litecoin	1:30:00 PM	134.93	135.46			N/A
6/17/2019	#Litecoin	3:30:00 PM	135.55	135.91			N/A
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6/17/2019	#NG.f	3:30:00 PM	2.362	2.376			N/A
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6/17/2019	#QQQ	3:30:00 PM					N/A
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6/17/2019	#Ripple	1:30:00 PM	0.4312	0.4358			N/A
6/17/2019	#Ripple	3:30:00 PM	0.4316	0.4348			N/A

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6/17/2019	#SBUX	3:30:00 PM					N/A
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6/17/2019	#SNE	3:30:00 PM					N/A
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6/17/2019	#UBS	1:30:00 PM					N/A
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6/17/2019	#ZNGA	11:30:00 AM					N/A
6/17/2019	#ZNGA	1:30:00 PM					N/A
6/17/2019	#ZNGA	3:30:00 PM					N/A
6/17/2019	AUDCAD	9:30:00 AM	0.92152	0.92219			N/A
6/17/2019	AUDCAD	11:30:00 AM	0.92127	0.92198			N/A
6/17/2019	AUDCAD	1:30:00 PM	0.92087	0.92155			N/A
6/17/2019	AUDCAD	3:30:00 PM	0.92108	0.92149			N/A
6/17/2019	AUDCAD.fx	9:30:00 AM	0.92185	0.92185			N/A
6/17/2019	AUDCAD.fx	11:30:00 AM	0.9216	0.92163			N/A

6/17/2019	AUDCAD.fx	1:30:00 PM	0.9212	0.92119			N/A
6/17/2019	AUDCAD.fx	3:30:00 PM	0.92143	0.92116			N/A
6/17/2019	AUDCHF	9:30:00 AM	0.68687	0.68755			N/A
6/17/2019	AUDCHF	11:30:00 AM	0.68596	0.68657			N/A
6/17/2019	AUDCHF	1:30:00 PM	0.68609	0.68681			N/A
6/17/2019	AUDCHF	3:30:00 PM	0.68507	0.68552			N/A
6/17/2019	AUDCHF.fx	9:30:00 AM	0.68722	0.6872			N/A
6/17/2019	AUDCHF.fx	11:30:00 AM	0.68631	0.68622			N/A
6/17/2019	AUDCHF.fx	1:30:00 PM	0.68644	0.68645			N/A
6/17/2019	AUDCHF.fx	3:30:00 PM	0.68541	0.68517			N/A
6/17/2019	AUDCZK	9:30:00 AM	15.638	15.653			N/A
6/17/2019	AUDCZK	11:30:00 AM	15.635	15.653			N/A
6/17/2019	AUDCZK	1:30:00 PM	15.635	15.652			N/A
6/17/2019	AUDCZK	3:30:00 PM	15.603	15.616			N/A
6/17/2019	AUDDKK	9:30:00 AM	4.5781	4.5824			N/A
6/17/2019	AUDDKK	11:30:00 AM	4.5733	4.578			N/A
6/17/2019	AUDDKK	1:30:00 PM	4.5718	4.5763			N/A
6/17/2019	AUDDKK	3:30:00 PM	4.5633	4.5668			N/A
6/17/2019	AUDHKD	9:30:00 AM	5.378	5.3819			N/A
6/17/2019	AUDHKD	11:30:00 AM	5.378	5.3818			N/A
6/17/2019	AUDHKD	1:30:00 PM	5.3763	5.3801			N/A
6/17/2019	AUDHKD	3:30:00 PM	5.3784	5.3792			N/A
6/17/2019	AUDHUF	9:30:00 AM	197.49	197.73			N/A
6/17/2019	AUDHUF	11:30:00 AM	197.25	197.48			N/A
6/17/2019	AUDHUF	1:30:00 PM	197.23	197.46			N/A
6/17/2019	AUDHUF	3:30:00 PM	196.7	196.81			N/A
6/17/2019	AUDJPY	9:30:00 AM	74.619	74.686			N/A
6/17/2019	AUDJPY	11:30:00 AM	74.592	74.657			N/A
6/17/2019	AUDJPY	1:30:00 PM	74.606	74.672			N/A
6/17/2019	AUDJPY	3:30:00 PM	74.59	74.648			N/A
6/17/2019	AUDJPY.fx	9:30:00 AM	74.653	74.65			N/A
6/17/2019	AUDJPY.fx	11:30:00 AM	74.627	74.621			N/A
6/17/2019	AUDJPY.fx	1:30:00 PM	74.64	74.636			N/A
6/17/2019	AUDJPY.fx	3:30:00 PM	74.625	74.612			N/A

6/17/2019	AUDMXN	9:30:00 AM	13.1613	13.1707			N/A
6/17/2019	AUDMXN	11:30:00 AM	13.1521	13.1625			N/A
6/17/2019	AUDMXN	1:30:00 PM	13.1497	13.16			N/A
6/17/2019	AUDMXN	3:30:00 PM	13.1501	13.1531			N/A
6/17/2019	AUDNOK	9:30:00 AM	5.9898	5.9943			N/A
6/17/2019	AUDNOK	11:30:00 AM	5.9905	5.9956			N/A
6/17/2019	AUDNOK	1:30:00 PM	5.9944	5.9994			N/A
6/17/2019	AUDNOK	3:30:00 PM	5.9855	5.9893			N/A
6/17/2019	AUDNOK.fx	9:30:00 AM	5.9914	5.9925			N/A
6/17/2019	AUDNOK.fx	11:30:00 AM	5.9921	5.9939			N/A
6/17/2019	AUDNOK.fx	1:30:00 PM	5.996	5.9977			N/A
6/17/2019	AUDNOK.fx	3:30:00 PM	5.987	5.9876			N/A
6/17/2019	AUDNZD	9:30:00 AM	1.05566	1.05654			N/A
6/17/2019	AUDNZD	11:30:00 AM	1.05531	1.05621			N/A
6/17/2019	AUDNZD	1:30:00 PM	1.05521	1.05615			N/A
6/17/2019	AUDNZD	3:30:00 PM	1.05504	1.05572			N/A
6/17/2019	AUDNZD.fx	9:30:00 AM	1.05609	1.05608			N/A
6/17/2019	AUDNZD.fx	11:30:00 AM	1.05575	1.05575			N/A
6/17/2019	AUDNZD.fx	1:30:00 PM	1.05564	1.0557			N/A
6/17/2019	AUDNZD.fx	3:30:00 PM	1.05546	1.05529			N/A
6/17/2019	AUDPLN	9:30:00 AM	2.6092	2.6122			N/A
6/17/2019	AUDPLN	11:30:00 AM	2.608	2.6114			N/A
6/17/2019	AUDPLN	1:30:00 PM	2.608	2.6111			N/A
6/17/2019	AUDPLN	3:30:00 PM	2.6033	2.6056			N/A
6/17/2019	AUDSEK	9:30:00 AM	6.5257	6.5276			N/A
6/17/2019	AUDSEK	11:30:00 AM	6.5202	6.5231			N/A
6/17/2019	AUDSEK	1:30:00 PM	6.5219	6.5248			N/A
6/17/2019	AUDSEK	3:30:00 PM	6.5108	6.5118			N/A
6/17/2019	AUDSEK.fx	9:30:00 AM	6.5211	6.532			N/A
6/17/2019	AUDSEK.fx	11:30:00 AM	6.5157	6.5275			N/A
6/17/2019	AUDSEK.fx	1:30:00 PM	6.5174	6.5291			N/A
6/17/2019	AUDSEK.fx	3:30:00 PM	6.5062	6.5165			N/A
6/17/2019	AUDSGD	9:30:00 AM	0.9424	0.9426			N/A
6/17/2019	AUDSGD	11:30:00 AM	0.9418	0.9421			N/A

6/17/2019	AUDSGD	1:30:00 PM	0.9416	0.9419			N/A
6/17/2019	AUDSGD	3:30:00 PM	0.9414	0.9416			N/A
6/17/2019	AUDSGD.fx	9:30:00 AM	0.94252	0.94262			N/A
6/17/2019	AUDSGD.fx	11:30:00 AM	0.94187	0.94199			N/A
6/17/2019	AUDSGD.fx	1:30:00 PM	0.94165	0.94174			N/A
6/17/2019	AUDSGD.fx	3:30:00 PM	0.94152	0.94148			N/A
6/17/2019	AUDUSD	9:30:00 AM	0.68742	0.6875			N/A
6/17/2019	AUDUSD	11:30:00 AM	0.68716	0.68729			N/A
6/17/2019	AUDUSD	1:30:00 PM	0.68693	0.68704			N/A
6/17/2019	AUDUSD	3:30:00 PM	0.68738	0.68719			N/A
6/17/2019	AUDUSD.fx	9:30:00 AM	0.68747	0.68744			N/A
6/17/2019	AUDUSD.fx	11:30:00 AM	0.68722	0.68723			N/A
6/17/2019	AUDUSD.fx	1:30:00 PM	0.68698	0.68699			N/A
6/17/2019	AUDUSD.fx	3:30:00 PM	0.68744	0.68713			N/A
6/17/2019	AUDZAR	9:30:00 AM	10.1512	10.1644			N/A
6/17/2019	AUDZAR	11:30:00 AM	10.1575	10.1714			N/A
6/17/2019	AUDZAR	1:30:00 PM	10.1672	10.1793			N/A
6/17/2019	AUDZAR	3:30:00 PM	10.1543	10.1593			N/A
6/17/2019	AUS200.i	9:30:00 AM	6539.2	6541.7			N/A
6/17/2019	AUS200.i	11:30:00 AM	6538.54	6541.64			N/A
6/17/2019	AUS200.i	1:30:00 PM	6537.54	6541.04			N/A
6/17/2019	AUS200.i	3:30:00 PM	6533.14	6537.04			N/A
6/17/2019	BCHUSD	9:30:00 AM	439.56	441.26			N/A
6/17/2019	BCHUSD	11:30:00 AM	442.84	444.42			N/A
6/17/2019	BCHUSD	1:30:00 PM	441.43	442.9			N/A
6/17/2019	BCHUSD	3:30:00 PM	445.61	445.88			N/A
6/17/2019	CADCHF	9:30:00 AM	0.74514	0.74577			N/A
6/17/2019	CADCHF	11:30:00 AM	0.74432	0.74489			N/A
6/17/2019	CADCHF	1:30:00 PM	0.74484	0.74552			N/A
6/17/2019	CADCHF	3:30:00 PM	0.74369	0.74392			N/A
6/17/2019	CADCHF.fx	9:30:00 AM	0.74548	0.74542			N/A
6/17/2019	CADCHF.fx	11:30:00 AM	0.74467	0.74453			N/A
6/17/2019	CADCHF.fx	1:30:00 PM	0.74518	0.74516			N/A
6/17/2019	CADCHF.fx	3:30:00 PM	0.74403	0.74355			N/A

6/17/2019	CADCZK	9:30:00 AM	16.968	16.982			N/A
6/17/2019	CADCZK	11:30:00 AM	16.969	16.986			N/A
6/17/2019	CADCZK	1:30:00 PM	16.976	16.993			N/A
6/17/2019	CADCZK	3:30:00 PM	16.943	16.95			N/A
6/17/2019	CADDDK	9:30:00 AM					N/A
6/17/2019	CADDDK	11:30:00 AM					N/A
6/17/2019	CADDDK	1:30:00 PM	4.964	4.967			N/A
6/17/2019	CADDDK	3:30:00 PM	4.953	4.955			N/A
6/17/2019	CADHKD	9:30:00 AM	5.8353	5.8392			N/A
6/17/2019	CADHKD	11:30:00 AM	5.8357	5.8396			N/A
6/17/2019	CADHKD	1:30:00 PM	5.8376	5.8411			N/A
6/17/2019	CADHKD	3:30:00 PM	5.8382	5.8416			N/A
6/17/2019	CADHUF	9:30:00 AM	214.32	214.48			N/A
6/17/2019	CADHUF	11:30:00 AM	214.08	214.26			N/A
6/17/2019	CADHUF	1:30:00 PM	214.18	214.34			N/A
6/17/2019	CADHUF	3:30:00 PM	213.67	213.58			N/A
6/17/2019	CADJPY	9:30:00 AM	80.948	81.012			N/A
6/17/2019	CADJPY	11:30:00 AM	80.939	80.998			N/A
6/17/2019	CADJPY	1:30:00 PM	80.989	81.056			N/A
6/17/2019	CADJPY	3:30:00 PM	80.975	81.007			N/A
6/17/2019	CADJPY.fx	9:30:00 AM	80.982	80.978			N/A
6/17/2019	CADJPY.fx	11:30:00 AM	80.972	80.962			N/A
6/17/2019	CADJPY.fx	1:30:00 PM	81.023	81.02			N/A
6/17/2019	CADJPY.fx	3:30:00 PM	81.009	80.971			N/A
6/17/2019	CADMXN	9:30:00 AM	14.2782	14.2905			N/A
6/17/2019	CADMXN	11:30:00 AM	14.2726	14.2843			N/A
6/17/2019	CADMXN	1:30:00 PM	14.2767	14.2888			N/A
6/17/2019	CADMXN	3:30:00 PM	14.2776	14.2786			N/A
6/17/2019	CADNOK	9:30:00 AM	6.4965	6.5012			N/A
6/17/2019	CADNOK	11:30:00 AM	6.4989	6.5037			N/A
6/17/2019	CADNOK	1:30:00 PM	6.5063	6.5105			N/A
6/17/2019	CADNOK	3:30:00 PM	6.4947	6.4963			N/A
6/17/2019	CADPLN	9:30:00 AM	2.8304	2.8321			N/A
6/17/2019	CADPLN	11:30:00 AM	2.8301	2.832			N/A

6/17/2019	CADPLN	1:30:00 PM	2.8315	2.8333			N/A
6/17/2019	CADPLN	3:30:00 PM	2.8267	2.827			N/A
6/17/2019	CADSEK	9:30:00 AM	7.0773	7.0795			N/A
6/17/2019	CADSEK	11:30:00 AM	7.0731	7.077			N/A
6/17/2019	CADSEK	1:30:00 PM	7.0782	7.0812			N/A
6/17/2019	CADSEK	3:30:00 PM	7.0665	7.0655			N/A
6/17/2019	CADSGD	9:30:00 AM	1.0217	1.022			N/A
6/17/2019	CADSGD	11:30:00 AM	1.0213	1.0216			N/A
6/17/2019	CADSGD	1:30:00 PM	1.0215	1.0218			N/A
6/17/2019	CADSGD	3:30:00 PM	1.0213	1.0216			N/A
6/17/2019	CADZAR	9:30:00 AM	11.0139	11.0288			N/A
6/17/2019	CADZAR	11:30:00 AM	11.0244	11.0386			N/A
6/17/2019	CADZAR	1:30:00 PM	11.038	11.0528			N/A
6/17/2019	CADZAR	3:30:00 PM	11.0269	11.0279			N/A
6/17/2019	CHFCZK	9:30:00 AM	22.765	22.782			N/A
6/17/2019	CHFCZK	11:30:00 AM	22.794	22.809			N/A
6/17/2019	CHFCZK	1:30:00 PM	22.787	22.801			N/A
6/17/2019	CHFCZK	3:30:00 PM	22.779	22.79			N/A
6/17/2019	CHFDKK	9:30:00 AM	6.663	6.666			N/A
6/17/2019	CHFDKK	11:30:00 AM	6.666	6.669			N/A
6/17/2019	CHFDKK	1:30:00 PM	6.662	6.664			N/A
6/17/2019	CHFDKK	3:30:00 PM	6.661	6.662			N/A
6/17/2019	CHFDKK.fx	9:30:00 AM	6.6618	6.6678			N/A
6/17/2019	CHFDKK.fx	11:30:00 AM	6.6644	6.67			N/A
6/17/2019	CHFDKK.fx	1:30:00 PM	6.6603	6.6656			N/A
6/17/2019	CHFDKK.fx	3:30:00 PM	6.6596	6.6633			N/A
6/17/2019	CHFHKD	9:30:00 AM	7.8294	7.8321			N/A
6/17/2019	CHFHKD	11:30:00 AM	7.8388	7.8421			N/A
6/17/2019	CHFHKD	1:30:00 PM	7.8352	7.8386			N/A
6/17/2019	CHFHKD	3:30:00 PM	7.8532	7.8484			N/A
6/17/2019	CHFHUF	9:30:00 AM	287.43	287.81			N/A
6/17/2019	CHFHUF	11:30:00 AM	287.47	287.85			N/A
6/17/2019	CHFHUF	1:30:00 PM	287.37	287.73			N/A
6/17/2019	CHFHUF	3:30:00 PM	287.05	287.31			N/A

6/17/2019	CHFJPY	9:30:00 AM	108.595	108.664			N/A
6/17/2019	CHFJPY	11:30:00 AM	108.709	108.777			N/A
6/17/2019	CHFJPY	1:30:00 PM	108.696	108.765			N/A
6/17/2019	CHFJPY	3:30:00 PM	108.867	108.909			N/A
6/17/2019	CHFJPY.fx	9:30:00 AM	108.627	108.628			N/A
6/17/2019	CHFJPY.fx	11:30:00 AM	108.743	108.742			N/A
6/17/2019	CHFJPY.fx	1:30:00 PM	108.73	108.73			N/A
6/17/2019	CHFJPY.fx	3:30:00 PM	108.901	108.874			N/A
6/17/2019	CHFMXN	9:30:00 AM	19.1571	19.1705			N/A
6/17/2019	CHFMXN	11:30:00 AM	19.1715	19.1832			N/A
6/17/2019	CHFMXN	1:30:00 PM	19.1604	19.1755			N/A
6/17/2019	CHFMXN	3:30:00 PM	19.192	19.201			N/A
6/17/2019	CHFNOK	9:30:00 AM	8.7155	8.7225			N/A
6/17/2019	CHFNOK	11:30:00 AM	8.7293	8.736			N/A
6/17/2019	CHFNOK	1:30:00 PM	8.732	8.7397			N/A
6/17/2019	CHFNOK	3:30:00 PM	8.7343	8.7395			N/A
6/17/2019	CHFNOK.fx	9:30:00 AM	8.71904	8.71899			N/A
6/17/2019	CHFNOK.fx	11:30:00 AM	8.73278	8.73243			N/A
6/17/2019	CHFNOK.fx	1:30:00 PM	8.73567	8.73605			N/A
6/17/2019	CHFNOK.fx	3:30:00 PM	8.73779	8.73619			N/A
6/17/2019	CHFPLN	9:30:00 AM	3.7974	3.8003			N/A
6/17/2019	CHFPLN	11:30:00 AM	3.8018	3.8042			N/A
6/17/2019	CHFPLN	1:30:00 PM	3.8	3.8026			N/A
6/17/2019	CHFPLN	3:30:00 PM	3.7995	3.8012			N/A
6/17/2019	CHFPLN.fx	9:30:00 AM	3.79504	3.80265			N/A
6/17/2019	CHFPLN.fx	11:30:00 AM	3.79946	3.80633			N/A
6/17/2019	CHFPLN.fx	1:30:00 PM	3.7978	3.80485			N/A
6/17/2019	CHFPLN.fx	3:30:00 PM	3.79714	3.80367			N/A
6/17/2019	CHFSEK	9:30:00 AM	9.4942	9.4981			N/A
6/17/2019	CHFSEK	11:30:00 AM	9.4994	9.5036			N/A
6/17/2019	CHFSEK	1:30:00 PM	9.4995	9.5035			N/A
6/17/2019	CHFSEK	3:30:00 PM	9.4978	9.4993			N/A
6/17/2019	CHFSGD	9:30:00 AM	1.3715	1.3718			N/A
6/17/2019	CHFSGD	11:30:00 AM	1.3724	1.3728			N/A

6/17/2019	CHFSGD	1:30:00 PM	1.3717	1.372			N/A
6/17/2019	CHFSGD	3:30:00 PM	1.374	1.3739			N/A
6/17/2019	CHFSGD.fx	9:30:00 AM	1.37164	1.37158			N/A
6/17/2019	CHFSGD.fx	11:30:00 AM	1.37263	1.37253			N/A
6/17/2019	CHFSGD.fx	1:30:00 PM	1.37193	1.37177			N/A
6/17/2019	CHFSGD.fx	3:30:00 PM	1.37413	1.37347			N/A
6/17/2019	CHFZAR	9:30:00 AM	14.7783	14.7895			N/A
6/17/2019	CHFZAR	11:30:00 AM	14.8127	14.8199			N/A
6/17/2019	CHFZAR	1:30:00 PM	14.8184	14.8294			N/A
6/17/2019	CHFZAR	3:30:00 PM	14.8244	14.8251			N/A
6/17/2019	CZKJPY	9:30:00 AM					N/A
6/17/2019	CZKJPY	11:30:00 AM					N/A
6/17/2019	CZKJPY	1:30:00 PM					N/A
6/17/2019	CZKJPY	3:30:00 PM	4.778	4.782			N/A
6/17/2019	DAX30.i	9:30:00 AM	12117.93	12116.93			N/A
6/17/2019	DAX30.i	11:30:00 AM	12095.93	12092.43			N/A
6/17/2019	DAX30.i	1:30:00 PM	12106.43	12105.18			N/A
6/17/2019	DAX30.i	3:30:00 PM	12100.43	12097.43			N/A
6/17/2019	DJ30.i	9:30:00 AM					N/A
6/17/2019	DJ30.i	11:30:00 AM					N/A
6/17/2019	DJ30.i	1:30:00 PM					N/A
6/17/2019	DJ30.i	3:30:00 PM					N/A
6/17/2019	DKKJPY	9:30:00 AM					N/A
6/17/2019	DKKJPY	11:30:00 AM					N/A
6/17/2019	DKKJPY	1:30:00 PM					N/A
6/17/2019	DKKJPY	3:30:00 PM	16.35	16.37			N/A
6/17/2019	EURAUD	9:30:00 AM	1.62969	1.62991			N/A
6/17/2019	EURAUD	11:30:00 AM	1.63118	1.63156			N/A
6/17/2019	EURAUD	1:30:00 PM	1.63179	1.63223			N/A
6/17/2019	EURAUD	3:30:00 PM	1.63516	1.63507			N/A
6/17/2019	EURAUD.fx	9:30:00 AM	1.6299	1.6297			N/A
6/17/2019	EURAUD.fx	11:30:00 AM	1.63139	1.63135	1000	1000	N/A
6/17/2019	EURAUD.fx	1:30:00 PM	1.63198	1.63201			N/A
6/17/2019	EURAUD.fx	3:30:00 PM	1.63534	1.63485			N/A

6/17/2019	EURCAD	9:30:00 AM	1.50273	1.50336			N/A
6/17/2019	EURCAD	11:30:00 AM	1.50373	1.50449			N/A
6/17/2019	EURCAD	1:30:00 PM	1.50354	1.50432			N/A
6/17/2019	EURCAD	3:30:00 PM	1.50704	1.50703			N/A
6/17/2019	EURCAD.fx	9:30:00 AM	1.50314	1.50294			N/A
6/17/2019	EURCAD.fx	11:30:00 AM	1.50416	1.50407			N/A
6/17/2019	EURCAD.fx	1:30:00 PM	1.50396	1.50388			N/A
6/17/2019	EURCAD.fx	3:30:00 PM	1.50745	1.50661			N/A
6/17/2019	EURCHF	9:30:00 AM	1.12043	1.12047			N/A
6/17/2019	EURCHF	11:30:00 AM	1.11998	1.11999			N/A
6/17/2019	EURCHF	1:30:00 PM	1.12069	1.12071			N/A
6/17/2019	EURCHF	3:30:00 PM	1.12113	1.12084			N/A
6/17/2019	EURCHF.fx	9:30:00 AM	1.1205	1.12041			N/A
6/17/2019	EURCHF.fx	11:30:00 AM	1.12004	1.11992			N/A
6/17/2019	EURCHF.fx	1:30:00 PM	1.12076	1.12065			N/A
6/17/2019	EURCHF.fx	3:30:00 PM	1.12118	1.12078			N/A
6/17/2019	EURCZK	9:30:00 AM	25.492	25.531			N/A
6/17/2019	EURCZK	11:30:00 AM					N/A
6/17/2019	EURCZK	1:30:00 PM	25.522	25.561			N/A
6/17/2019	EURCZK	3:30:00 PM	25.523	25.556			N/A
6/17/2019	EURDKK	9:30:00 AM	7.4661	7.4674			N/A
6/17/2019	EURDKK	11:30:00 AM	7.4659	7.4671			N/A
6/17/2019	EURDKK	1:30:00 PM	7.4653	7.4665			N/A
6/17/2019	EURDKK	3:30:00 PM	7.4653	7.4666			N/A
6/17/2019	EURGBP	9:30:00 AM	0.89073	0.89066			N/A
6/17/2019	EURGBP	11:30:00 AM	0.89115	0.89118			N/A
6/17/2019	EURGBP	1:30:00 PM	0.89057	0.89061			N/A
6/17/2019	EURGBP	3:30:00 PM	0.89245	0.89203			N/A
6/17/2019	EURGBP.fx	9:30:00 AM	0.89077	0.8906			N/A
6/17/2019	EURGBP.fx	11:30:00 AM	0.89119	0.89113			N/A
6/17/2019	EURGBP.fx	1:30:00 PM	0.89062	0.89057			N/A
6/17/2019	EURGBP.fx	3:30:00 PM	0.8925	0.89197			N/A
6/17/2019	EURHKD	9:30:00 AM	8.7725	8.7758			N/A
6/17/2019	EURHKD	11:30:00 AM	8.779	8.7842			N/A

6/17/2019	EURHKD	1:30:00 PM	8.78	8.785			N/A
6/17/2019	EURHKD	3:30:00 PM	8.8028	8.8044			N/A
6/17/2019	EURHKD.fx	9:30:00 AM	8.77532	8.77294			N/A
6/17/2019	EURHKD.fx	11:30:00 AM	8.78183	8.78135			N/A
6/17/2019	EURHKD.fx	1:30:00 PM	8.78283	8.78216			N/A
6/17/2019	EURHKD.fx	3:30:00 PM	8.80563	8.80171			N/A
6/17/2019	EURHUF	9:30:00 AM	321.95	322.59			N/A
6/17/2019	EURHUF	11:30:00 AM	321.9	322.5			N/A
6/17/2019	EURHUF	1:30:00 PM	321.92	322.57			N/A
6/17/2019	EURHUF	3:30:00 PM	321.9	322.42			N/A
6/17/2019	EURHUF.fx	9:30:00 AM	322.231	322.398			N/A
6/17/2019	EURHUF.fx	11:30:00 AM	322.202	322.367			N/A
6/17/2019	EURHUF.fx	1:30:00 PM	322.28	322.43			N/A
6/17/2019	EURHUF.fx	3:30:00 PM	322.188	322.13			N/A
6/17/2019	EURJPY	9:30:00 AM	121.715	121.716			N/A
6/17/2019	EURJPY	11:30:00 AM	121.782	121.789			N/A
6/17/2019	EURJPY	1:30:00 PM	121.856	121.854			N/A
6/17/2019	EURJPY	3:30:00 PM	122.075	122.048			N/A
6/17/2019	EURJPY.fx	9:30:00 AM	121.718	121.711			N/A
6/17/2019	EURJPY.fx	11:30:00 AM	121.784	121.784			N/A
6/17/2019	EURJPY.fx	1:30:00 PM	121.858	121.85			N/A
6/17/2019	EURJPY.fx	3:30:00 PM	122.074	122.045			N/A
6/17/2019	EURMXN	9:30:00 AM	21.4658	21.4804			N/A
6/17/2019	EURMXN	11:30:00 AM	21.4733	21.4895			N/A
6/17/2019	EURMXN	1:30:00 PM	21.4746	21.4937			N/A
6/17/2019	EURMXN	3:30:00 PM	21.5208	21.5217			N/A
6/17/2019	EURMXN.f	9:30:00 AM	21.4742	21.4718			N/A
6/17/2019	EURMXN.f	11:30:00 AM	21.4821	21.481			N/A
6/17/2019	EURMXN.f	1:30:00 PM	21.4837	21.4853			N/A
6/17/2019	EURMXN.f	3:30:00 PM	21.5292	21.5124			N/A
6/17/2019	EURNOK	9:30:00 AM	9.7644	9.7741			N/A
6/17/2019	EURNOK	11:30:00 AM	9.7742	9.7863			N/A
6/17/2019	EURNOK	1:30:00 PM	9.7847	9.796			N/A
6/17/2019	EURNOK	3:30:00 PM	9.788	9.7997			N/A

6/17/2019	EURNOK.fx	9:30:00 AM	9.77003	9.76881			N/A
6/17/2019	EURNOK.fx	11:30:00 AM	9.77971	9.78048			N/A
6/17/2019	EURNOK.fx	1:30:00 PM	9.79032	9.79028			N/A
6/17/2019	EURNOK.fx	3:30:00 PM	9.79354	9.79428			N/A
6/17/2019	EURNZD	9:30:00 AM	1.72149	1.72221			N/A
6/17/2019	EURNZD	11:30:00 AM	1.72259	1.72336			N/A
6/17/2019	EURNZD	1:30:00 PM	1.72307	1.72389			N/A
6/17/2019	EURNZD	3:30:00 PM	1.72633	1.72645			N/A
6/17/2019	EURNZD.fx	9:30:00 AM	1.72192	1.72177			N/A
6/17/2019	EURNZD.fx	11:30:00 AM	1.72302	1.72292			N/A
6/17/2019	EURNZD.fx	1:30:00 PM	1.7235	1.72345			N/A
6/17/2019	EURNZD.fx	3:30:00 PM	1.72671	1.72602			N/A
6/17/2019	EURPLN	9:30:00 AM	4.2549	4.258			N/A
6/17/2019	EURPLN	11:30:00 AM	4.2576	4.2606			N/A
6/17/2019	EURPLN	1:30:00 PM	4.2586	4.2617			N/A
6/17/2019	EURPLN	3:30:00 PM	4.2587	4.2615			N/A
6/17/2019	EURPLN.fx	9:30:00 AM	4.254	4.2587			N/A
6/17/2019	EURPLN.fx	11:30:00 AM	4.25707	4.26112			N/A
6/17/2019	EURPLN.fx	1:30:00 PM	4.25797	4.26227			N/A
6/17/2019	EURPLN.fx	3:30:00 PM	4.25797	4.26202			N/A
6/17/2019	EURRUB	9:30:00 AM					N/A
6/17/2019	EURRUB	11:30:00 AM	71.754	72.191			N/A
6/17/2019	EURRUB	1:30:00 PM	71.801	72.233			N/A
6/17/2019	EURRUB	3:30:00 PM	71.86	72.275			N/A
6/17/2019	EURSEK	9:30:00 AM	10.6395	10.643			N/A
6/17/2019	EURSEK	11:30:00 AM	10.6408	10.6454			N/A
6/17/2019	EURSEK	1:30:00 PM	10.6478	10.6519			N/A
6/17/2019	EURSEK	3:30:00 PM	10.648	10.6524			N/A
6/17/2019	EURSEK.fx	9:30:00 AM	10.64131	10.64109			N/A
6/17/2019	EURSEK.fx	11:30:00 AM	10.6424	10.64372			N/A
6/17/2019	EURSEK.fx	1:30:00 PM	10.64946	10.65018			N/A
6/17/2019	EURSEK.fx	3:30:00 PM	10.64963	10.65054			N/A
6/17/2019	EURSGD	9:30:00 AM	1.5365	1.5371			N/A
6/17/2019	EURSGD	11:30:00 AM	1.5368	1.5377			N/A

6/17/2019	EURSGD	1:30:00 PM	1.537	1.5378			N/A
6/17/2019	EURSGD	3:30:00 PM	1.5398	1.5403			N/A
6/17/2019	EURSGD.fx	9:30:00 AM	1.53693	1.53674			N/A
6/17/2019	EURSGD.fx	11:30:00 AM	1.53719	1.53726			N/A
6/17/2019	EURSGD.fx	1:30:00 PM	1.53738	1.53738			N/A
6/17/2019	EURSGD.fx	3:30:00 PM	1.54017	1.53991			N/A
6/17/2019	EURUSD	9:30:00 AM	1.12077	1.12063	50	50	N/A
6/17/2019	EURUSD	11:30:00 AM	1.12134	1.12146			N/A
6/17/2019	EURUSD	1:30:00 PM	1.12137	1.12144			N/A
6/17/2019	EURUSD	3:30:00 PM	1.12442	1.12383		20	N/A
6/17/2019	EURUSD.fx	9:30:00 AM	1.12097	1.12072			N/A
6/17/2019	EURUSD.fx	11:30:00 AM	1.12155	1.12155			N/A
6/17/2019	EURUSD.fx	1:30:00 PM	1.12158	1.12153			N/A
6/17/2019	EURUSD.fx	3:30:00 PM	1.12464	1.12392		20	N/A
6/17/2019	EURZAR	9:30:00 AM	16.5607	16.5757			N/A
6/17/2019	EURZAR	11:30:00 AM	16.5896	16.6039			N/A
6/17/2019	EURZAR	1:30:00 PM	16.6069	16.6251			N/A
6/17/2019	EURZAR	3:30:00 PM	16.6287	16.628			N/A
6/17/2019	EURZAR.fx	9:30:00 AM	16.5597	16.57687			N/A
6/17/2019	EURZAR.fx	11:30:00 AM	16.58894	16.60464			N/A
6/17/2019	EURZAR.fx	1:30:00 PM	16.60677	16.626			N/A
6/17/2019	EURZAR.fx	3:30:00 PM	16.62715	16.62819			N/A
6/17/2019	GBPAUD	9:30:00 AM	1.83045	1.83055			N/A
6/17/2019	GBPAUD	11:30:00 AM	1.83104	1.83154			N/A
6/17/2019	GBPAUD	1:30:00 PM	1.83278	1.83345			N/A
6/17/2019	GBPAUD	3:30:00 PM	1.83325	1.83336			N/A
6/17/2019	GBPAUD.fx	9:30:00 AM	1.83082	1.83017			N/A
6/17/2019	GBPAUD.fx	11:30:00 AM	1.83141	1.83115			N/A
6/17/2019	GBPAUD.fx	1:30:00 PM	1.83318	1.83303			N/A
6/17/2019	GBPAUD.fx	3:30:00 PM	1.83366	1.83296			N/A
6/17/2019	GBPCAD	9:30:00 AM	1.68745	1.6876			N/A
6/17/2019	GBPCAD	11:30:00 AM	1.68756	1.68806			N/A
6/17/2019	GBPCAD	1:30:00 PM	1.68837	1.68898			N/A
6/17/2019	GBPCAD	3:30:00 PM	1.68899	1.689			N/A

6/17/2019	GBPCAD.fx	9:30:00 AM	1.68784	1.6872			N/A
6/17/2019	GBPCAD.fx	11:30:00 AM	1.68795	1.68767			N/A
6/17/2019	GBPCAD.fx	1:30:00 PM	1.68877	1.6886			N/A
6/17/2019	GBPCAD.fx	3:30:00 PM	1.68938	1.68867			N/A
6/17/2019	GBPCHF	9:30:00 AM	1.25785	1.258			N/A
6/17/2019	GBPCHF	11:30:00 AM	1.25656	1.25693			N/A
6/17/2019	GBPCHF	1:30:00 PM	1.2582	1.25855			N/A
6/17/2019	GBPCHF	3:30:00 PM	1.25652	1.25625			N/A
6/17/2019	GBPCHF.fx	9:30:00 AM	1.25804	1.2578			N/A
6/17/2019	GBPCHF.fx	11:30:00 AM	1.25676	1.25672			N/A
6/17/2019	GBPCHF.fx	1:30:00 PM	1.25839	1.25832			N/A
6/17/2019	GBPCHF.fx	3:30:00 PM	1.25672	1.25607			N/A
6/17/2019	GBPCZK	9:30:00 AM	28.63	28.65			N/A
6/17/2019	GBPCZK	11:30:00 AM	28.641	28.661			N/A
6/17/2019	GBPCZK	1:30:00 PM	28.668	28.688			N/A
6/17/2019	GBPCZK	3:30:00 PM	28.611	28.623			N/A
6/17/2019	GBPDKK	9:30:00 AM	8.379	8.389			N/A
6/17/2019	GBPDKK	11:30:00 AM	8.375	8.385			N/A
6/17/2019	GBPDKK	1:30:00 PM	8.38	8.39			N/A
6/17/2019	GBPDKK	3:30:00 PM	8.367	8.373			N/A
6/17/2019	GBPDKK.fx	9:30:00 AM	8.3784	8.3897			N/A
6/17/2019	GBPDKK.fx	11:30:00 AM	8.3729	8.3856			N/A
6/17/2019	GBPDKK.fx	1:30:00 PM	8.3783	8.3907			N/A
6/17/2019	GBPDKK.fx	3:30:00 PM	8.3653	8.3733			N/A
6/17/2019	GBPHKD	9:30:00 AM	9.848	9.8495			N/A
6/17/2019	GBPHKD	11:30:00 AM	9.849	9.8538			N/A
6/17/2019	GBPHKD	1:30:00 PM	9.8571	9.8616			N/A
6/17/2019	GBPHKD	3:30:00 PM	9.8622	9.8617			N/A
6/17/2019	GBPHUF	9:30:00 AM	361.51	361.94			N/A
6/17/2019	GBPHUF	11:30:00 AM	361.22	361.68			N/A
6/17/2019	GBPHUF	1:30:00 PM	361.55	362			N/A
6/17/2019	GBPHUF	3:30:00 PM	360.62	360.79			N/A
6/17/2019	GBPJPY	9:30:00 AM	136.65	136.656			N/A
6/17/2019	GBPJPY	11:30:00 AM	136.64	136.679			N/A

6/17/2019	GBPJPY	1:30:00 PM	136.809	136.834			N/A
6/17/2019	GBPJPY	3:30:00 PM	136.803	136.785			N/A
6/17/2019	GBPJPY.fx	9:30:00 AM	136.668	136.635			N/A
6/17/2019	GBPJPY.fx	11:30:00 AM	136.659	136.658			N/A
6/17/2019	GBPJPY.fx	1:30:00 PM	136.829	136.812			N/A
6/17/2019	GBPJPY.fx	3:30:00 PM	136.824	136.765			N/A
6/17/2019	GBPMXN	9:30:00 AM	24.0997	24.1039			N/A
6/17/2019	GBPMXN	11:30:00 AM	24.0923	24.1016			N/A
6/17/2019	GBPMXN	1:30:00 PM	24.1088	24.1225			N/A
6/17/2019	GBPMXN	3:30:00 PM	24.1084	24.1118			N/A
6/17/2019	GBPNOK	9:30:00 AM	10.9653	10.9713			N/A
6/17/2019	GBPNOK	11:30:00 AM	10.9699	10.9799			N/A
6/17/2019	GBPNOK	1:30:00 PM	10.9877	10.9981			N/A
6/17/2019	GBPNOK	3:30:00 PM	10.9739	10.9796			N/A
6/17/2019	GBPNOK.fx	9:30:00 AM	10.97032	10.9665			N/A
6/17/2019	GBPNOK.fx	11:30:00 AM	10.9748	10.97505			N/A
6/17/2019	GBPNOK.fx	1:30:00 PM	10.99276	10.99294			N/A
6/17/2019	GBPNOK.fx	3:30:00 PM	10.97877	10.97472			N/A
6/17/2019	GBPNZD	9:30:00 AM	1.9331	1.93328			N/A
6/17/2019	GBPNZD	11:30:00 AM	1.93315	1.93365			N/A
6/17/2019	GBPNZD	1:30:00 PM	1.93485	1.93548			N/A
6/17/2019	GBPNZD	3:30:00 PM	1.93467	1.93458			N/A
6/17/2019	GBPNZD.fx	9:30:00 AM	1.93347	1.9329			N/A
6/17/2019	GBPNZD.fx	11:30:00 AM	1.9335	1.93326			N/A
6/17/2019	GBPNZD.fx	1:30:00 PM	1.93521	1.93507			N/A
6/17/2019	GBPNZD.fx	3:30:00 PM	1.93507	1.93419			N/A
6/17/2019	GBPPLN	9:30:00 AM	4.7784	4.7793			N/A
6/17/2019	GBPPLN	11:30:00 AM	4.7787	4.7799			N/A
6/17/2019	GBPPLN	1:30:00 PM	4.7825	4.7843			N/A
6/17/2019	GBPPLN	3:30:00 PM	4.7754	4.7741			N/A
6/17/2019	GBPPLN.fx	9:30:00 AM	4.77617	4.78144			N/A
6/17/2019	GBPPLN.fx	11:30:00 AM	4.77646	4.78196			N/A
6/17/2019	GBPPLN.fx	1:30:00 PM	4.78052	4.78625			N/A
6/17/2019	GBPPLN.fx	3:30:00 PM	4.77322	4.7762			N/A

6/17/2019	GBPSEK	9:30:00 AM	11.9427	11.9501			N/A
6/17/2019	GBPSEK	11:30:00 AM	11.9383	11.9468			N/A
6/17/2019	GBPSEK	1:30:00 PM	11.9538	11.962			N/A
6/17/2019	GBPSEK	3:30:00 PM	11.9365	11.9382			N/A
6/17/2019	GBPSEK.fx	9:30:00 AM	11.93908	11.95345			N/A
6/17/2019	GBPSEK.fx	11:30:00 AM	11.93464	11.95009			N/A
6/17/2019	GBPSEK.fx	1:30:00 PM	11.95012	11.96548			N/A
6/17/2019	GBPSEK.fx	3:30:00 PM	11.93276	11.94176			N/A
6/17/2019	GBPSGD	9:30:00 AM	1.7254	1.7255			N/A
6/17/2019	GBPSGD	11:30:00 AM	1.7247	1.7253			N/A
6/17/2019	GBPSGD	1:30:00 PM	1.726	1.7266			N/A
6/17/2019	GBPSGD	3:30:00 PM	1.726	1.726			N/A
6/17/2019	GBPSGD.fx	9:30:00 AM	1.72357	1.72733			N/A
6/17/2019	GBPSGD.fx	11:30:00 AM	1.72287	1.72706			N/A
6/17/2019	GBPSGD.fx	1:30:00 PM	1.72412	1.72841			N/A
6/17/2019	GBPSGD.fx	3:30:00 PM	1.72418	1.72785			N/A
6/17/2019	GBPUSD	9:30:00 AM	1.25865	1.25817			N/A
6/17/2019	GBPUSD	11:30:00 AM	1.25855	1.25851			N/A
6/17/2019	GBPUSD	1:30:00 PM	1.25937	1.25929			N/A
6/17/2019	GBPUSD	3:30:00 PM	1.26034	1.25964			N/A
6/17/2019	GBPUSD.fx	9:30:00 AM	1.2587	1.2581			N/A
6/17/2019	GBPUSD.fx	11:30:00 AM	1.2586	1.25844			N/A
6/17/2019	GBPUSD.fx	1:30:00 PM	1.25942	1.25923			N/A
6/17/2019	GBPUSD.fx	3:30:00 PM	1.2604	1.25963			N/A
6/17/2019	GBPZAR	9:30:00 AM	18.5891	18.6118			N/A
6/17/2019	GBPZAR	11:30:00 AM	18.6135	18.6346			N/A
6/17/2019	GBPZAR	1:30:00 PM	18.6447	18.6714			N/A
6/17/2019	GBPZAR	3:30:00 PM	18.6354	18.6396			N/A
6/17/2019	GBPZAR.fx	9:30:00 AM	18.5955	18.6052			N/A
6/17/2019	GBPZAR.fx	11:30:00 AM	18.6206	18.6273			N/A
6/17/2019	GBPZAR.fx	1:30:00 PM	18.6521	18.6646			N/A
6/17/2019	GBPZAR.fx	3:30:00 PM	18.642	18.6323			N/A
6/17/2019	GOLD	9:30:00 AM	1338.78	1339.02			N/A
6/17/2019	GOLD	11:30:00 AM	1335.18	1335.45			N/A

6/17/2019	GOLD	1:30:00 PM	1334.61	1335			N/A
6/17/2019	GOLD	3:30:00 PM	1340.47	1339.05			N/A
6/17/2019	HKDJPY	9:30:00 AM					N/A
6/17/2019	HKDJPY	11:30:00 AM	13.87	13.88			N/A
6/17/2019	HKDJPY	1:30:00 PM	13.87	13.88			N/A
6/17/2019	HKDJPY	3:30:00 PM	13.87	13.87			N/A
6/17/2019	HKDJPY.fx	9:30:00 AM	13.868	13.874			N/A
6/17/2019	HKDJPY.fx	11:30:00 AM	13.864	13.871			N/A
6/17/2019	HKDJPY.fx	1:30:00 PM	13.87	13.876			N/A
6/17/2019	HKDJPY.fx	3:30:00 PM	13.864	13.864			N/A
6/17/2019	HUFJPY	9:30:00 AM	0.378	0.3783			N/A
6/17/2019	HUFJPY	11:30:00 AM	0.3781	0.3784			N/A
6/17/2019	HUFJPY	1:30:00 PM	0.3782	0.3785			N/A
6/17/2019	HUFJPY	3:30:00 PM	0.3791	0.3794			N/A
6/17/2019	JP225.i	9:30:00 AM	21120.22	21136.06			N/A
6/17/2019	JP225.i	11:30:00 AM	21120.22	21135.22			N/A
6/17/2019	JP225.i	1:30:00 PM	21125.22	21145.22			N/A
6/17/2019	JP225.i	3:30:00 PM	21137.72	21147.72			N/A
6/17/2019	MXNJPY	9:30:00 AM	5.67	5.68			N/A
6/17/2019	MXNJPY	11:30:00 AM	5.67	5.68			N/A
6/17/2019	MXNJPY	1:30:00 PM					N/A
6/17/2019	MXNJPY	3:30:00 PM	5.67	5.68			N/A
6/17/2019	NASDAQ.i	9:30:00 AM					N/A
6/17/2019	NASDAQ.i	11:30:00 AM					N/A
6/17/2019	NASDAQ.i	1:30:00 PM					N/A
6/17/2019	NASDAQ.i	3:30:00 PM					N/A
6/17/2019	NOKJPY	9:30:00 AM	12.45	12.48			N/A
6/17/2019	NOKJPY	11:30:00 AM	12.43	12.47			N/A
6/17/2019	NOKJPY	1:30:00 PM	12.44	12.48			N/A
6/17/2019	NOKJPY	3:30:00 PM	12.45	12.48			N/A
6/17/2019	NOKJPY.fx	9:30:00 AM	12.456	12.461			N/A
6/17/2019	NOKJPY.fx	11:30:00 AM	12.448	12.456			N/A
6/17/2019	NOKJPY.fx	1:30:00 PM	12.443	12.45			N/A
6/17/2019	NOKJPY.fx	3:30:00 PM	12.459	12.466			N/A

6/17/2019	NZDCAD	9:30:00 AM	0.87257	0.87325			N/A
6/17/2019	NZDCAD	11:30:00 AM	0.87261	0.87331			N/A
6/17/2019	NZDCAD	1:30:00 PM	0.87227	0.87297			N/A
6/17/2019	NZDCAD	3:30:00 PM	0.87283	0.87311			N/A
6/17/2019	NZDCAD.fx	9:30:00 AM	0.8729	0.87291			N/A
6/17/2019	NZDCAD.fx	11:30:00 AM	0.87294	0.87298			N/A
6/17/2019	NZDCAD.fx	1:30:00 PM	0.87261	0.87263			N/A
6/17/2019	NZDCAD.fx	3:30:00 PM	0.87316	0.87278			N/A
6/17/2019	NZDCHF	9:30:00 AM	0.65038	0.65108			N/A
6/17/2019	NZDCHF	11:30:00 AM	0.6497	0.65034			N/A
6/17/2019	NZDCHF	1:30:00 PM	0.64989	0.6506			N/A
6/17/2019	NZDCHF	3:30:00 PM	0.64908	0.64961			N/A
6/17/2019	NZDCHF.fx	9:30:00 AM	0.65072	0.65072			N/A
6/17/2019	NZDCHF.fx	11:30:00 AM	0.65004	0.64998			N/A
6/17/2019	NZDCHF.fx	1:30:00 PM	0.65024	0.65024			N/A
6/17/2019	NZDCHF.fx	3:30:00 PM	0.64943	0.64924			N/A
6/17/2019	NZDCZK	9:30:00 AM	14.809	14.821			N/A
6/17/2019	NZDCZK	11:30:00 AM	14.811	14.824			N/A
6/17/2019	NZDCZK	1:30:00 PM	14.813	14.825			N/A
6/17/2019	NZDCZK	3:30:00 PM	14.787	14.794			N/A
6/17/2019	NZDDKK	9:30:00 AM					N/A
6/17/2019	NZDDKK	11:30:00 AM					N/A
6/17/2019	NZDDKK	1:30:00 PM	4.331	4.334			N/A
6/17/2019	NZDDKK	3:30:00 PM	4.322	4.326			N/A
6/17/2019	NZDHKD	9:30:00 AM	5.0926	5.0954			N/A
6/17/2019	NZDHKD	11:30:00 AM	5.0938	5.0966			N/A
6/17/2019	NZDHKD	1:30:00 PM	5.0928	5.0957			N/A
6/17/2019	NZDHKD	3:30:00 PM	5.0966	5.096			N/A
6/17/2019	NZDHUF	9:30:00 AM	186.96	187.24			N/A
6/17/2019	NZDHUF	11:30:00 AM	186.78	187.08			N/A
6/17/2019	NZDHUF	1:30:00 PM	186.78	187.08			N/A
6/17/2019	NZDHUF	3:30:00 PM	186.33	186.52			N/A
6/17/2019	NZDJPY	9:30:00 AM	70.652	70.726			N/A
6/17/2019	NZDJPY	11:30:00 AM	70.652	70.717			N/A

6/17/2019	NZDJPY	1:30:00 PM	70.666	70.738			N/A
6/17/2019	NZDJPY	3:30:00 PM	70.671	70.726			N/A
6/17/2019	NZDJPY.fx	9:30:00 AM	70.683	70.692			N/A
6/17/2019	NZDJPY.fx	11:30:00 AM	70.683	70.683			N/A
6/17/2019	NZDJPY.fx	1:30:00 PM	70.698	70.705			N/A
6/17/2019	NZDJPY.fx	3:30:00 PM	70.702	70.693			N/A
6/17/2019	NZDMXN	9:30:00 AM	12.4631	12.4683			N/A
6/17/2019	NZDMXN	11:30:00 AM	12.4593	12.4642			N/A
6/17/2019	NZDMXN	1:30:00 PM	12.4571	12.4638			N/A
6/17/2019	NZDMXN	3:30:00 PM	12.4601	12.4615			N/A
6/17/2019	NZDNOK	9:30:00 AM	5.67	5.673			N/A
6/17/2019	NZDNOK	11:30:00 AM	5.672	5.6759			N/A
6/17/2019	NZDNOK	1:30:00 PM	5.6763	5.6798			N/A
6/17/2019	NZDNOK	3:30:00 PM	5.667	5.6698			N/A
6/17/2019	NZDPLN	9:30:00 AM	2.47	2.4714			N/A
6/17/2019	NZDPLN	11:30:00 AM	2.4703	2.4718			N/A
6/17/2019	NZDPLN	1:30:00 PM	2.4703	2.4716			N/A
6/17/2019	NZDPLN	3:30:00 PM	2.4659	2.4673			N/A
6/17/2019	NZDSEK	9:30:00 AM	6.1738	6.1805			N/A
6/17/2019	NZDSEK	11:30:00 AM	6.1712	6.1781			N/A
6/17/2019	NZDSEK	1:30:00 PM	6.1731	6.1796			N/A
6/17/2019	NZDSEK	3:30:00 PM	6.1632	6.1683			N/A
6/17/2019	NZDSGD	9:30:00 AM	0.8922	0.8929			N/A
6/17/2019	NZDSGD	11:30:00 AM	0.8919	0.8923			N/A
6/17/2019	NZDSGD	1:30:00 PM	0.8917	0.8923			N/A
6/17/2019	NZDSGD	3:30:00 PM	0.8919	0.8923			N/A
6/17/2019	NZDSGD.fx	9:30:00 AM	0.89223	0.89281			N/A
6/17/2019	NZDSGD.fx	11:30:00 AM	0.89188	0.89251			N/A
6/17/2019	NZDSGD.fx	1:30:00 PM	0.89172	0.89231			N/A
6/17/2019	NZDSGD.fx	3:30:00 PM	0.8919	0.89223			N/A
6/17/2019	NZDUSD	9:30:00 AM	0.65086	0.65096			N/A
6/17/2019	NZDUSD	11:30:00 AM	0.65081	0.65097			N/A
6/17/2019	NZDUSD	1:30:00 PM	0.65064	0.65077			N/A
6/17/2019	NZDUSD	3:30:00 PM	0.65131	0.65103			N/A

6/17/2019	NZDUSD.fx	9:30:00 AM	0.65094	0.65097			N/A
6/17/2019	NZDUSD.fx	11:30:00 AM	0.65089	0.65098			N/A
6/17/2019	NZDUSD.fx	1:30:00 PM	0.65071	0.65079			N/A
6/17/2019	NZDUSD.fx	3:30:00 PM	0.65138	0.65105			N/A
6/17/2019	NZDZAR	9:30:00 AM	9.6104	9.6248			N/A
6/17/2019	NZDZAR	11:30:00 AM	9.6211	9.6343			N/A
6/17/2019	NZDZAR	1:30:00 PM	9.6289	9.6434			N/A
6/17/2019	NZDZAR	3:30:00 PM	9.6195	9.6275			N/A
6/17/2019	SEKJPY	9:30:00 AM	11.44	11.45			N/A
6/17/2019	SEKJPY	11:30:00 AM	11.44	11.45			N/A
6/17/2019	SEKJPY	1:30:00 PM					N/A
6/17/2019	SEKJPY	3:30:00 PM	11.46	11.47			N/A
6/17/2019	SEKJPY.fx	9:30:00 AM	11.429	11.447			N/A
6/17/2019	SEKJPY.fx	11:30:00 AM	11.433	11.452			N/A
6/17/2019	SEKJPY.fx	1:30:00 PM	11.432	11.451			N/A
6/17/2019	SEKJPY.fx	3:30:00 PM	11.451	11.468			N/A
6/17/2019	SGDJPY	9:30:00 AM	79.17	79.19			N/A
6/17/2019	SGDJPY	11:30:00 AM	79.22	79.22			N/A
6/17/2019	SGDJPY	1:30:00 PM	79.23	79.25			N/A
6/17/2019	SGDJPY	3:30:00 PM	79.24	79.24			N/A
6/17/2019	SILVER	9:30:00 AM	14.65	15.03			N/A
6/17/2019	SILVER	11:30:00 AM	14.62	14.99			N/A
6/17/2019	SILVER	1:30:00 PM	14.61	14.99			N/A
6/17/2019	SILVER	3:30:00 PM	14.7	15.06			N/A
6/17/2019	SPX500.i	9:30:00 AM	2895.05	2896.1			N/A
6/17/2019	SPX500.i	11:30:00 AM	2893.05	2894.1			N/A
6/17/2019	SPX500.i	1:30:00 PM	2892.05	2892.85			N/A
6/17/2019	SPX500.i	3:30:00 PM	2893.8	2893.87			N/A
6/17/2019	UK100.i	9:30:00 AM	7362.01	7361.51			N/A
6/17/2019	UK100.i	11:30:00 AM	7358.01	7356.51			N/A
6/17/2019	UK100.i	1:30:00 PM	7343.51	7344.76			N/A
6/17/2019	UK100.i	3:30:00 PM	7339.68	7339.76			N/A
6/17/2019	USDCAD	9:30:00 AM	1.34098	1.34108			N/A
6/17/2019	USDCAD	11:30:00 AM	1.34111	1.34116			N/A

6/17/2019	USDCAD	1:30:00 PM	1.34089	1.34093			N/A
6/17/2019	USDCAD	3:30:00 PM	1.34061	1.3402			N/A
6/17/2019	USDCAD.fx	9:30:00 AM	1.34101	1.34104			N/A
6/17/2019	USDCAD.fx	11:30:00 AM	1.34115	1.34112			N/A
6/17/2019	USDCAD.fx	1:30:00 PM	1.34093	1.34089			N/A
6/17/2019	USDCAD.fx	3:30:00 PM	1.34064	1.34017			N/A
6/17/2019	USDCHF	9:30:00 AM	0.99967	0.99961			N/A
6/17/2019	USDCHF	11:30:00 AM	0.99856	0.9986			N/A
6/17/2019	USDCHF	1:30:00 PM	0.99922	0.99921			N/A
6/17/2019	USDCHF	3:30:00 PM	0.99729	0.99675	9000	9000	N/A
6/17/2019	USDCHF.fx	9:30:00 AM	0.99973	0.99955			N/A
6/17/2019	USDCHF.fx	11:30:00 AM	0.99864	0.99853			N/A
6/17/2019	USDCHF.fx	1:30:00 PM	0.99927	0.99914			N/A
6/17/2019	USDCHF.fx	3:30:00 PM	0.99735	0.99668			N/A
6/17/2019	USDCZK	9:30:00 AM	22.772	22.792			N/A
6/17/2019	USDCZK	11:30:00 AM	22.775	22.798			N/A
6/17/2019	USDCZK	1:30:00 PM	22.782	22.804			N/A
6/17/2019	USDCZK	3:30:00 PM	22.731	22.739			N/A
6/17/2019	USDCZK.fx	9:30:00 AM	22.7804	22.7836			N/A
6/17/2019	USDCZK.fx	11:30:00 AM	22.7836	22.7898			N/A
6/17/2019	USDCZK.fx	1:30:00 PM	22.79	22.796			N/A
6/17/2019	USDCZK.fx	3:30:00 PM	22.7391	22.7305			N/A
6/17/2019	USDDKK	9:30:00 AM	6.6619	6.6645			N/A
6/17/2019	USDDKK	11:30:00 AM	6.6567	6.6607			N/A
6/17/2019	USDDKK	1:30:00 PM	6.6568	6.6605			N/A
6/17/2019	USDDKK	3:30:00 PM	6.6416	6.643			N/A
6/17/2019	USDDKK.fx	9:30:00 AM	6.6623	6.6625			N/A
6/17/2019	USDDKK.fx	11:30:00 AM	6.65717	6.65853			N/A
6/17/2019	USDDKK.fx	1:30:00 PM	6.65725	6.65852			N/A
6/17/2019	USDDKK.fx	3:30:00 PM	6.6421	6.64056			N/A
6/17/2019	USDHKD	9:30:00 AM	7.8279	7.828			N/A
6/17/2019	USDHKD	11:30:00 AM	7.8298	7.83			N/A
6/17/2019	USDHKD	1:30:00 PM	7.8304	7.8307			N/A
6/17/2019	USDHKD	3:30:00 PM	7.8296	7.8298			N/A

6/17/2019	USDHKD.fx	9:30:00 AM	7.82789	7.82832			N/A
6/17/2019	USDHKD.fx	11:30:00 AM	7.82973	7.83002			N/A
6/17/2019	USDHKD.fx	1:30:00 PM	7.83034	7.83093			N/A
6/17/2019	USDHKD.fx	3:30:00 PM	7.82942	7.82997			N/A
6/17/2019	USDHUF	9:30:00 AM	287.38	287.77			N/A
6/17/2019	USDHUF	11:30:00 AM	287.12	287.59			N/A
6/17/2019	USDHUF	1:30:00 PM	287.19	287.61			N/A
6/17/2019	USDHUF	3:30:00 PM	286.5	286.65			N/A
6/17/2019	USDHUF.fx	9:30:00 AM	287.573	287.567			N/A
6/17/2019	USDHUF.fx	11:30:00 AM	287.335	287.376			N/A
6/17/2019	USDHUF.fx	1:30:00 PM	287.405	287.446			N/A
6/17/2019	USDHUF.fx	3:30:00 PM	286.674	286.447			N/A
6/17/2019	USDINR	9:30:00 AM	64.84	74.82			N/A
6/17/2019	USDINR	11:30:00 AM	64.76	74.75			N/A
6/17/2019	USDINR	1:30:00 PM					N/A
6/17/2019	USDINR	3:30:00 PM					N/A
6/17/2019	USDJPY	9:30:00 AM	108.593	108.588			N/A
6/17/2019	USDJPY	11:30:00 AM	108.584	108.589			N/A
6/17/2019	USDJPY	1:30:00 PM	108.645	108.645			N/A
6/17/2019	USDJPY	3:30:00 PM	108.589	108.54			N/A
6/17/2019	USDJPY.fx	9:30:00 AM	108.598	108.581			N/A
6/17/2019	USDJPY.fx	11:30:00 AM	108.59	108.581			N/A
6/17/2019	USDJPY.fx	1:30:00 PM	108.651	108.638			N/A
6/17/2019	USDJPY.fx	3:30:00 PM	108.594	108.533			N/A
6/17/2019	USDMXN	9:30:00 AM	19.155	19.162			N/A
6/17/2019	USDMXN	11:30:00 AM	19.151	19.156			N/A
6/17/2019	USDMXN	1:30:00 PM	19.151	19.16			N/A
6/17/2019	USDMXN	3:30:00 PM	19.147	19.139			N/A
6/17/2019	USDMXN.f	9:30:00 AM					N/A
6/17/2019	USDMXN.f	11:30:00 AM					N/A
6/17/2019	USDMXN.f	1:30:00 PM					N/A
6/17/2019	USDMXN.f	3:30:00 PM					N/A
6/17/2019	USDNOK	9:30:00 AM	8.7129	8.7208			N/A
6/17/2019	USDNOK	11:30:00 AM	8.7163	8.7249			N/A

6/17/2019	USDNOK	1:30:00 PM	8.7252	8.7332			N/A
6/17/2019	USDNOK	3:30:00 PM	8.7104	8.7133			N/A
6/17/2019	USDNOK.fx	9:30:00 AM	8.71695	8.71621			N/A
6/17/2019	USDNOK.fx	11:30:00 AM	8.72041	8.72042			N/A
6/17/2019	USDNOK.fx	1:30:00 PM	8.72962	8.72855			N/A
6/17/2019	USDNOK.fx	3:30:00 PM	8.71469	8.70867			N/A
6/17/2019	USDPLN	9:30:00 AM	3.7971	3.798			N/A
6/17/2019	USDPLN	11:30:00 AM	3.7966	3.7981			N/A
6/17/2019	USDPLN	1:30:00 PM	3.7978	3.7991			N/A
6/17/2019	USDPLN	3:30:00 PM	3.7905	3.7888			N/A
6/17/2019	USDPLN.fx	9:30:00 AM	3.79626	3.79861			N/A
6/17/2019	USDPLN.fx	11:30:00 AM	3.79597	3.79881			N/A
6/17/2019	USDPLN.fx	1:30:00 PM	3.79697	3.79981			N/A
6/17/2019	USDPLN.fx	3:30:00 PM	3.78955	3.78952			N/A
6/17/2019	USDRUB	9:30:00 AM					N/A
6/17/2019	USDRUB	11:30:00 AM	64.095	64.479			N/A
6/17/2019	USDRUB	1:30:00 PM	64.135	64.522			N/A
6/17/2019	USDRUB	3:30:00 PM	64.033	64.406			N/A
6/17/2019	USDSEK	9:30:00 AM	9.4927	9.4942			N/A
6/17/2019	USDSEK	11:30:00 AM	9.4872	9.4912			N/A
6/17/2019	USDSEK	1:30:00 PM	9.4934	9.4967			N/A
6/17/2019	USDSEK	3:30:00 PM	9.4721	9.4721			N/A
6/17/2019	USDSEK.fx	9:30:00 AM	9.49541	9.49212			N/A
6/17/2019	USDSEK.fx	11:30:00 AM	9.48979	9.48934			N/A
6/17/2019	USDSEK.fx	1:30:00 PM	9.49613	9.49486			N/A
6/17/2019	USDSEK.fx	3:30:00 PM	9.47439	9.47023			N/A
6/17/2019	USDSGD	9:30:00 AM	1.371	1.3713			N/A
6/17/2019	USDSGD	11:30:00 AM	1.3705	1.3709			N/A
6/17/2019	USDSGD	1:30:00 PM	1.3706	1.3709			N/A
6/17/2019	USDSGD	3:30:00 PM	1.3699	1.3698			N/A
6/17/2019	USDSGD.fx	9:30:00 AM	1.3709	1.37129			N/A
6/17/2019	USDSGD.fx	11:30:00 AM	1.37036	1.37087			N/A
6/17/2019	USDSGD.fx	1:30:00 PM	1.37051	1.37101			N/A
6/17/2019	USDSGD.fx	3:30:00 PM	1.36984	1.3698			N/A

6/17/2019	USDZAR	9:30:00 AM	14.7767	14.7895			N/A
6/17/2019	USDZAR	11:30:00 AM	14.7914	14.8041			N/A
6/17/2019	USDZAR	1:30:00 PM	14.8067	14.8229			N/A
6/17/2019	USDZAR	3:30:00 PM	14.7967	14.7868			N/A
6/17/2019	USDZAR.fx	9:30:00 AM					N/A
6/17/2019	USDZAR.fx	11:30:00 AM					N/A
6/17/2019	USDZAR.fx	1:30:00 PM					N/A
6/17/2019	USDZAR.fx	3:30:00 PM					N/A
6/17/2019	XAUUSD	9:30:00 AM	1338.78	1339			N/A
6/17/2019	XAUUSD	11:30:00 AM	1335.18	1335.45			N/A
6/17/2019	XAUUSD	1:30:00 PM	1334.61	1334.97			N/A
6/17/2019	XAUUSD	3:30:00 PM	1340.51	1339.03			N/A
6/17/2019	ZARJPY	9:30:00 AM	7.33	7.35			N/A
6/17/2019	ZARJPY	11:30:00 AM	7.32	7.34			N/A
6/17/2019	ZARJPY	1:30:00 PM	7.32	7.33			N/A
6/17/2019	ZARJPY	3:30:00 PM	7.33	7.34			N/A
6/17/2019	ZARJPY.fx	9:30:00 AM	7.345	7.347			N/A
6/17/2019	ZARJPY.fx	11:30:00 AM	7.336	7.338			N/A
6/17/2019	ZARJPY.fx	1:30:00 PM	7.331	7.335			N/A
6/17/2019	ZARJPY.fx	3:30:00 PM	7.343	7.338			N/A
6/18/2019	#AA	9:30:00 AM					N/A
6/18/2019	#AA	11:30:00 AM					N/A
6/18/2019	#AA	1:30:00 PM					N/A
6/18/2019	#AA	3:30:00 PM					N/A
6/18/2019	#AABA	9:30:00 AM					N/A
6/18/2019	#AABA	11:30:00 AM					N/A
6/18/2019	#AABA	1:30:00 PM					N/A
6/18/2019	#AABA	3:30:00 PM					N/A
6/18/2019	#AAL	9:30:00 AM					N/A
6/18/2019	#AAL	11:30:00 AM					N/A
6/18/2019	#AAL	1:30:00 PM					N/A
6/18/2019	#AAL	3:30:00 PM					N/A
6/18/2019	#AAPL	9:30:00 AM					N/A
6/18/2019	#AAPL	11:30:00 AM					N/A

6/18/2019	#AAPL	1:30:00 PM					N/A
6/18/2019	#AAPL	3:30:00 PM					N/A
6/18/2019	#ADBE	9:30:00 AM					N/A
6/18/2019	#ADBE	11:30:00 AM					N/A
6/18/2019	#ADBE	1:30:00 PM					N/A
6/18/2019	#ADBE	3:30:00 PM					N/A
6/18/2019	#AIG	9:30:00 AM					N/A
6/18/2019	#AIG	11:30:00 AM					N/A
6/18/2019	#AIG	1:30:00 PM					N/A
6/18/2019	#AIG	3:30:00 PM					N/A
6/18/2019	#AMD	9:30:00 AM					N/A
6/18/2019	#AMD	11:30:00 AM					N/A
6/18/2019	#AMD	1:30:00 PM					N/A
6/18/2019	#AMD	3:30:00 PM					N/A
6/18/2019	#AMZN	9:30:00 AM					N/A
6/18/2019	#AMZN	11:30:00 AM					N/A
6/18/2019	#AMZN	1:30:00 PM					N/A
6/18/2019	#AMZN	3:30:00 PM					N/A
6/18/2019	#AXP	9:30:00 AM					N/A
6/18/2019	#AXP	11:30:00 AM					N/A
6/18/2019	#AXP	1:30:00 PM					N/A
6/18/2019	#AXP	3:30:00 PM					N/A
6/18/2019	#BA	9:30:00 AM					N/A
6/18/2019	#BA	11:30:00 AM					N/A
6/18/2019	#BA	1:30:00 PM					N/A
6/18/2019	#BA	3:30:00 PM					N/A
6/18/2019	#BABA	9:30:00 AM					N/A
6/18/2019	#BABA	11:30:00 AM					N/A
6/18/2019	#BABA	1:30:00 PM					N/A
6/18/2019	#BABA	3:30:00 PM					N/A
6/18/2019	#BAC	9:30:00 AM					N/A
6/18/2019	#BAC	11:30:00 AM					N/A
6/18/2019	#BAC	1:30:00 PM					N/A
6/18/2019	#BAC	3:30:00 PM					N/A

6/18/2019	#BARC	9:30:00 AM					N/A
6/18/2019	#BARC	11:30:00 AM					N/A
6/18/2019	#BARC	1:30:00 PM					N/A
6/18/2019	#BARC	3:30:00 PM					N/A
6/18/2019	#BHP	9:30:00 AM					N/A
6/18/2019	#BHP	11:30:00 AM					N/A
6/18/2019	#BHP	1:30:00 PM					N/A
6/18/2019	#BHP	3:30:00 PM					N/A
6/18/2019	#BIDU	9:30:00 AM					N/A
6/18/2019	#BIDU	11:30:00 AM					N/A
6/18/2019	#BIDU	1:30:00 PM					N/A
6/18/2019	#BIDU	3:30:00 PM					N/A
6/18/2019	#Bitcoin	9:30:00 AM	9177	9191.36			N/A
6/18/2019	#Bitcoin	11:30:00 AM	9154.7	9180.45			N/A
6/18/2019	#Bitcoin	1:30:00 PM	9236.4	9265.75			N/A
6/18/2019	#Bitcoin	3:30:00 PM	9130.25	9153.3			N/A
6/18/2019	#BK	9:30:00 AM					N/A
6/18/2019	#BK	11:30:00 AM					N/A
6/18/2019	#BK	1:30:00 PM					N/A
6/18/2019	#BK	3:30:00 PM					N/A
6/18/2019	#BLT	9:30:00 AM					N/A
6/18/2019	#BLT	11:30:00 AM					N/A
6/18/2019	#BLT	1:30:00 PM					N/A
6/18/2019	#BLT	3:30:00 PM					N/A
6/18/2019	#BP	9:30:00 AM					N/A
6/18/2019	#BP	11:30:00 AM					N/A
6/18/2019	#BP	1:30:00 PM					N/A
6/18/2019	#BP	3:30:00 PM					N/A
6/18/2019	#BTA	9:30:00 AM					N/A
6/18/2019	#BTA	11:30:00 AM					N/A
6/18/2019	#BTA	1:30:00 PM					N/A
6/18/2019	#BTA	3:30:00 PM					N/A
6/18/2019	#C	9:30:00 AM					N/A
6/18/2019	#C	11:30:00 AM					N/A

6/18/2019	#C	1:30:00 PM					N/A
6/18/2019	#C	3:30:00 PM					N/A
6/18/2019	#CAT	9:30:00 AM					N/A
6/18/2019	#CAT	11:30:00 AM					N/A
6/18/2019	#CAT	1:30:00 PM					N/A
6/18/2019	#CAT	3:30:00 PM					N/A
6/18/2019	#CHL	9:30:00 AM					N/A
6/18/2019	#CHL	11:30:00 AM					N/A
6/18/2019	#CHL	1:30:00 PM					N/A
6/18/2019	#CHL	3:30:00 PM					N/A
6/18/2019	#CL.f	9:30:00 AM	51.95	51.961			N/A
6/18/2019	#CL.f	11:30:00 AM	52.212	52.203			N/A
6/18/2019	#CL.f	1:30:00 PM	51.76	51.764			N/A
6/18/2019	#CL.f	3:30:00 PM	52.389	52.433			N/A
6/18/2019	#CMCSA	9:30:00 AM					N/A
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6/18/2019	AUDCAD	9:30:00 AM	0.91656	0.91728			N/A
6/18/2019	AUDCAD	11:30:00 AM	0.91698	0.91765			N/A
6/18/2019	AUDCAD	1:30:00 PM	0.91869	0.91932			N/A
6/18/2019	AUDCAD	3:30:00 PM	0.91862	0.91913			N/A
6/18/2019	AUDCAD.fx	9:30:00 AM	0.9169	0.91693			N/A
6/18/2019	AUDCAD.fx	11:30:00 AM	0.9173	0.91731			N/A
6/18/2019	AUDCAD.fx	1:30:00 PM	0.91904	0.91898			N/A
6/18/2019	AUDCAD.fx	3:30:00 PM	0.91895	0.91878			N/A
6/18/2019	AUDCHF	9:30:00 AM	0.68205	0.68276			N/A
6/18/2019	AUDCHF	11:30:00 AM	0.68299	0.68359			N/A
6/18/2019	AUDCHF	1:30:00 PM	0.68408	0.68462			N/A
6/18/2019	AUDCHF	3:30:00 PM	0.68341	0.68404			N/A

6/18/2019	AUDCHF.fx	9:30:00 AM	0.6824	0.68241			N/A
6/18/2019	AUDCHF.fx	11:30:00 AM	0.68333	0.68324			N/A
6/18/2019	AUDCHF.fx	1:30:00 PM	0.68442	0.68427			N/A
6/18/2019	AUDCHF.fx	3:30:00 PM	0.68376	0.68369			N/A
6/18/2019	AUDCZK	9:30:00 AM	15.542	15.559			N/A
6/18/2019	AUDCZK	11:30:00 AM	15.612	15.627			N/A
6/18/2019	AUDCZK	1:30:00 PM	15.634	15.65			N/A
6/18/2019	AUDCZK	3:30:00 PM	15.647	15.659			N/A
6/18/2019	AUDDKK	9:30:00 AM	4.5436	4.5485			N/A
6/18/2019	AUDDKK	11:30:00 AM	4.5599	4.5637			N/A
6/18/2019	AUDDKK	1:30:00 PM	4.5653	4.5698			N/A
6/18/2019	AUDDKK	3:30:00 PM	4.5665	4.5704			N/A
6/18/2019	AUDHKD	9:30:00 AM	5.3544	5.3583			N/A
6/18/2019	AUDHKD	11:30:00 AM	5.3527	5.3563			N/A
6/18/2019	AUDHKD	1:30:00 PM	5.3597	5.363			N/A
6/18/2019	AUDHKD	3:30:00 PM	5.3603	5.3641			N/A
6/18/2019	AUDHUF	9:30:00 AM	195.91	196.14			N/A
6/18/2019	AUDHUF	11:30:00 AM	196.57	196.79			N/A
6/18/2019	AUDHUF	1:30:00 PM	196.87	197.08			N/A
6/18/2019	AUDHUF	3:30:00 PM	197.06	197.18			N/A
6/18/2019	AUDJPY	9:30:00 AM	74.017	74.085			N/A
6/18/2019	AUDJPY	11:30:00 AM	74.024	74.089			N/A
6/18/2019	AUDJPY	1:30:00 PM	74.121	74.173			N/A
6/18/2019	AUDJPY	3:30:00 PM	74.079	74.127			N/A
6/18/2019	AUDJPY.fx	9:30:00 AM	74.054	74.049			N/A
6/18/2019	AUDJPY.fx	11:30:00 AM	74.057	74.054			N/A
6/18/2019	AUDJPY.fx	1:30:00 PM	74.155	74.137			N/A
6/18/2019	AUDJPY.fx	3:30:00 PM	74.113	74.091			N/A
6/18/2019	AUDMXN	9:30:00 AM	13.0947	13.1045			N/A
6/18/2019	AUDMXN	11:30:00 AM	13.0828	13.0883			N/A
6/18/2019	AUDMXN	1:30:00 PM	13.0886	13.0967			N/A
6/18/2019	AUDMXN	3:30:00 PM	13.066	13.0721			N/A
6/18/2019	AUDNOK	9:30:00 AM	5.9672	5.9709			N/A
6/18/2019	AUDNOK	11:30:00 AM	5.9766	5.9804			N/A

6/18/2019	AUDNOK	1:30:00 PM	5.9825	5.987			N/A
6/18/2019	AUDNOK	3:30:00 PM	5.9833	5.9869			N/A
6/18/2019	AUDNOK.fx	9:30:00 AM	5.9687	5.9691			N/A
6/18/2019	AUDNOK.fx	11:30:00 AM	5.9782	5.9787			N/A
6/18/2019	AUDNOK.fx	1:30:00 PM	5.9841	5.9852			N/A
6/18/2019	AUDNOK.fx	3:30:00 PM	5.9848	5.9852			N/A
6/18/2019	AUDNZD	9:30:00 AM	1.05236	1.05326			N/A
6/18/2019	AUDNZD	11:30:00 AM	1.05069	1.05152			N/A
6/18/2019	AUDNZD	1:30:00 PM	1.05068	1.05154			N/A
6/18/2019	AUDNZD	3:30:00 PM	1.05153	1.05223			N/A
6/18/2019	AUDNZD.fx	9:30:00 AM	1.05279	1.05282			N/A
6/18/2019	AUDNZD.fx	11:30:00 AM	1.05112	1.05108			N/A
6/18/2019	AUDNZD.fx	1:30:00 PM	1.05112	1.05109			N/A
6/18/2019	AUDNZD.fx	3:30:00 PM	1.05193	1.05176			N/A
6/18/2019	AUDPLN	9:30:00 AM	2.593	2.5963			N/A
6/18/2019	AUDPLN	11:30:00 AM	2.6024	2.6052			N/A
6/18/2019	AUDPLN	1:30:00 PM	2.6045	2.6076			N/A
6/18/2019	AUDPLN	3:30:00 PM	2.6024	2.6052			N/A
6/18/2019	AUDSEK	9:30:00 AM	6.4782	6.4811			N/A
6/18/2019	AUDSEK	11:30:00 AM	6.488	6.4903			N/A
6/18/2019	AUDSEK	1:30:00 PM	6.5054	6.5082			N/A
6/18/2019	AUDSEK	3:30:00 PM	6.5113	6.5129			N/A
6/18/2019	AUDSEK.fx	9:30:00 AM	6.4737	6.4857			N/A
6/18/2019	AUDSEK.fx	11:30:00 AM	6.4834	6.4946			N/A
6/18/2019	AUDSEK.fx	1:30:00 PM	6.5007	6.5127			N/A
6/18/2019	AUDSEK.fx	3:30:00 PM	6.5065	6.5176			N/A
6/18/2019	AUDSGD	9:30:00 AM	0.9372	0.9376			N/A
6/18/2019	AUDSGD	11:30:00 AM	0.9379	0.9382			N/A
6/18/2019	AUDSGD	1:30:00 PM	0.9384	0.9387			N/A
6/18/2019	AUDSGD	3:30:00 PM	0.9382	0.9385			N/A
6/18/2019	AUDSGD.fx	9:30:00 AM	0.93732	0.93747			N/A
6/18/2019	AUDSGD.fx	11:30:00 AM	0.93799	0.93809			N/A
6/18/2019	AUDSGD.fx	1:30:00 PM	0.93852	0.93855			N/A
6/18/2019	AUDSGD.fx	3:30:00 PM	0.93832	0.93838			N/A

6/18/2019	AUDUSD	9:30:00 AM	0.68387	0.68399			N/A
6/18/2019	AUDUSD	11:30:00 AM	0.68371	0.68379			N/A
6/18/2019	AUDUSD	1:30:00 PM	0.68451	0.68455			N/A
6/18/2019	AUDUSD	3:30:00 PM	0.68462	0.68468			N/A
6/18/2019	AUDUSD.fx	9:30:00 AM	0.68392	0.68393			N/A
6/18/2019	AUDUSD.fx	11:30:00 AM	0.68376	0.68374			N/A
6/18/2019	AUDUSD.fx	1:30:00 PM	0.68456	0.6845			N/A
6/18/2019	AUDUSD.fx	3:30:00 PM	0.68467	0.68462			N/A
6/18/2019	AUDZAR	9:30:00 AM	10.0951	10.1102			N/A
6/18/2019	AUDZAR	11:30:00 AM	10.0402	10.0449			N/A
6/18/2019	AUDZAR	1:30:00 PM	10.0259	10.039			N/A
6/18/2019	AUDZAR	3:30:00 PM	9.9941	10.0029			N/A
6/18/2019	AUS200.i	9:30:00 AM	6571.5	6575			N/A
6/18/2019	AUS200.i	11:30:00 AM	6598.5	6601.1			N/A
6/18/2019	AUS200.i	1:30:00 PM	6596.4	6598.9			N/A
6/18/2019	AUS200.i	3:30:00 PM	6608.4	6611			N/A
6/18/2019	BCHUSD	9:30:00 AM	429.61	430.47			N/A
6/18/2019	BCHUSD	11:30:00 AM	429.75	431.23			N/A
6/18/2019	BCHUSD	1:30:00 PM	432.17	433.44			N/A
6/18/2019	BCHUSD	3:30:00 PM	425.79	427.06			N/A
6/18/2019	CADCHF	9:30:00 AM	0.7439	0.74457			N/A
6/18/2019	CADCHF	11:30:00 AM	0.74461	0.74514			N/A
6/18/2019	CADCHF	1:30:00 PM	0.74437	0.74494			N/A
6/18/2019	CADCHF	3:30:00 PM	0.74393	0.74443			N/A
6/18/2019	CADCHF.fx	9:30:00 AM	0.74425	0.74421			N/A
6/18/2019	CADCHF.fx	11:30:00 AM	0.74496	0.74478			N/A
6/18/2019	CADCHF.fx	1:30:00 PM	0.74471	0.74458			N/A
6/18/2019	CADCHF.fx	3:30:00 PM	0.74421	0.74409			N/A
6/18/2019	CADCZK	9:30:00 AM	16.954	16.97			N/A
6/18/2019	CADCZK	11:30:00 AM	17.024	17.037			N/A
6/18/2019	CADCZK	1:30:00 PM	17.015	17.03			N/A
6/18/2019	CADCZK	3:30:00 PM	17.033	17.047			N/A
6/18/2019	CADDDKK	9:30:00 AM	4.957	4.96			N/A
6/18/2019	CADDDKK	11:30:00 AM	4.972	4.976			N/A

6/18/2019	CADDKK	1:30:00 PM	4.969	4.973			N/A
6/18/2019	CADDKK	3:30:00 PM	4.971	4.974			N/A
6/18/2019	CADHKD	9:30:00 AM	5.841	5.8449			N/A
6/18/2019	CADHKD	11:30:00 AM	5.8365	5.8403			N/A
6/18/2019	CADHKD	1:30:00 PM	5.8328	5.8363			N/A
6/18/2019	CADHKD	3:30:00 PM	5.8356	5.8384			N/A
6/18/2019	CADHUF	9:30:00 AM	213.72	213.89			N/A
6/18/2019	CADHUF	11:30:00 AM	214.37	214.53			N/A
6/18/2019	CADHUF	1:30:00 PM	214.29	214.43			N/A
6/18/2019	CADHUF	3:30:00 PM	214.52	214.62			N/A
6/18/2019	CADJPY	9:30:00 AM	80.726	80.792			N/A
6/18/2019	CADJPY	11:30:00 AM	80.7	80.764			N/A
6/18/2019	CADJPY	1:30:00 PM	80.651	80.709			N/A
6/18/2019	CADJPY	3:30:00 PM	80.623	80.672			N/A
6/18/2019	CADJPY.fx	9:30:00 AM	80.76	80.757			N/A
6/18/2019	CADJPY.fx	11:30:00 AM	80.733	80.729			N/A
6/18/2019	CADJPY.fx	1:30:00 PM	80.684	80.675			N/A
6/18/2019	CADJPY.fx	3:30:00 PM	80.656	80.638			N/A
6/18/2019	CADMXN	9:30:00 AM	14.2829	14.2955			N/A
6/18/2019	CADMXN	11:30:00 AM	14.2649	14.272			N/A
6/18/2019	CADMXN	1:30:00 PM	14.2436	14.2541			N/A
6/18/2019	CADMXN	3:30:00 PM	14.2216	14.2309			N/A
6/18/2019	CADNOK	9:30:00 AM	6.5076	6.5101			N/A
6/18/2019	CADNOK	11:30:00 AM	6.5145	6.5177			N/A
6/18/2019	CADNOK	1:30:00 PM	6.509	6.5127			N/A
6/18/2019	CADNOK	3:30:00 PM	6.5103	6.5121			N/A
6/18/2019	CADPLN	9:30:00 AM	2.8285	2.8304			N/A
6/18/2019	CADPLN	11:30:00 AM	2.8371	2.8388			N/A
6/18/2019	CADPLN	1:30:00 PM	2.8347	2.8361			N/A
6/18/2019	CADPLN	3:30:00 PM	2.832	2.8334			N/A
6/18/2019	CADSEK	9:30:00 AM	7.0634	7.0673			N/A
6/18/2019	CADSEK	11:30:00 AM	7.0714	7.0742			N/A
6/18/2019	CADSEK	1:30:00 PM	7.0772	7.0803			N/A
6/18/2019	CADSEK	3:30:00 PM	7.0842	7.0872			N/A

6/18/2019	CADSGD	9:30:00 AM	1.0218	1.0221			N/A
6/18/2019	CADSGD	11:30:00 AM	1.0218	1.0221			N/A
6/18/2019	CADSGD	1:30:00 PM	1.0205	1.0208			N/A
6/18/2019	CADSGD	3:30:00 PM	1.0209	1.0211			N/A
6/18/2019	CADZAR	9:30:00 AM	11.0121	11.0286			N/A
6/18/2019	CADZAR	11:30:00 AM	10.9486	10.9529			N/A
6/18/2019	CADZAR	1:30:00 PM	10.9107	10.9268			N/A
6/18/2019	CADZAR	3:30:00 PM	10.88	10.8899			N/A
6/18/2019	CHFCZK	9:30:00 AM	22.785	22.8			N/A
6/18/2019	CHFCZK	11:30:00 AM	22.859	22.871			N/A
6/18/2019	CHFCZK	1:30:00 PM	22.856	22.866			N/A
6/18/2019	CHFCZK	3:30:00 PM	22.893	22.907			N/A
6/18/2019	CHFDKK	9:30:00 AM	6.66	6.663			N/A
6/18/2019	CHFDKK	11:30:00 AM	6.676	6.678			N/A
6/18/2019	CHFDKK	1:30:00 PM	6.674	6.675			N/A
6/18/2019	CHFDKK	3:30:00 PM	6.68	6.682			N/A
6/18/2019	CHFDKK.fx	9:30:00 AM	6.6588	6.6644			N/A
6/18/2019	CHFDKK.fx	11:30:00 AM	6.6742	6.6796			N/A
6/18/2019	CHFDKK.fx	1:30:00 PM	6.6721	6.6765			N/A
6/18/2019	CHFDKK.fx	3:30:00 PM	6.6789	6.6846			N/A
6/18/2019	CHFHKD	9:30:00 AM	7.8497	7.8536			N/A
6/18/2019	CHFHKD	11:30:00 AM	7.8378	7.8403			N/A
6/18/2019	CHFHKD	1:30:00 PM	7.8341	7.8363			N/A
6/18/2019	CHFHKD	3:30:00 PM	7.8425	7.8464			N/A
6/18/2019	CHFHUF	9:30:00 AM	287.14	287.51			N/A
6/18/2019	CHFHUF	11:30:00 AM	287.74	288.08			N/A
6/18/2019	CHFHUF	1:30:00 PM	287.73	288.04			N/A
6/18/2019	CHFHUF	3:30:00 PM	288.24	288.52			N/A
6/18/2019	CHFJPY	9:30:00 AM	108.486	108.547			N/A
6/18/2019	CHFJPY	11:30:00 AM	108.366	108.397			N/A
6/18/2019	CHFJPY	1:30:00 PM	108.316	108.371			N/A
6/18/2019	CHFJPY	3:30:00 PM	108.354	108.407			N/A
6/18/2019	CHFJPY.fx	9:30:00 AM	108.52	108.513			N/A
6/18/2019	CHFJPY.fx	11:30:00 AM	108.398	108.362			N/A

6/18/2019	CHFJPY.fx	1:30:00 PM	108.35	108.336			N/A
6/18/2019	CHFJPY.fx	3:30:00 PM	108.386	108.372			N/A
6/18/2019	CHFMXN	9:30:00 AM	19.1934	19.2077			N/A
6/18/2019	CHFMXN	11:30:00 AM	19.1535	19.1589			N/A
6/18/2019	CHFMXN	1:30:00 PM	19.1288	19.1413			N/A
6/18/2019	CHFMXN	3:30:00 PM	19.1146	19.125			N/A
6/18/2019	CHFNOK	9:30:00 AM	8.7442	8.7496			N/A
6/18/2019	CHFNOK	11:30:00 AM	8.7467	8.7515			N/A
6/18/2019	CHFNOK	1:30:00 PM	8.7425	8.748			N/A
6/18/2019	CHFNOK	3:30:00 PM	8.7503	8.7566			N/A
6/18/2019	CHFNOK.fx	9:30:00 AM	8.74749	8.74605			N/A
6/18/2019	CHFNOK.fx	11:30:00 AM	8.75027	8.74788			N/A
6/18/2019	CHFNOK.fx	1:30:00 PM	8.74599	8.74439			N/A
6/18/2019	CHFNOK.fx	3:30:00 PM	8.75366	8.75335			N/A
6/18/2019	CHFPLN	9:30:00 AM	3.8009	3.8039			N/A
6/18/2019	CHFPLN	11:30:00 AM	3.8099	3.8125			N/A
6/18/2019	CHFPLN	1:30:00 PM	3.8073	3.8096			N/A
6/18/2019	CHFPLN	3:30:00 PM	3.8073	3.8101			N/A
6/18/2019	CHFPLN.fx	9:30:00 AM	3.79846	3.80632			N/A
6/18/2019	CHFPLN.fx	11:30:00 AM	3.80744	3.81493			N/A
6/18/2019	CHFPLN.fx	1:30:00 PM	3.80488	3.81189			N/A
6/18/2019	CHFPLN.fx	3:30:00 PM	3.80484	3.81255			N/A
6/18/2019	CHFSEK	9:30:00 AM	9.492	9.496			N/A
6/18/2019	CHFSEK	11:30:00 AM	9.4937	9.4976			N/A
6/18/2019	CHFSEK	1:30:00 PM	9.5054	9.5079			N/A
6/18/2019	CHFSEK	3:30:00 PM	9.521	9.5244			N/A
6/18/2019	CHFSGD	9:30:00 AM	1.3735	1.3739			N/A
6/18/2019	CHFSGD	11:30:00 AM	1.3728	1.373			N/A
6/18/2019	CHFSGD	1:30:00 PM	1.3714	1.3715			N/A
6/18/2019	CHFSGD	3:30:00 PM	1.3723	1.3726			N/A
6/18/2019	CHFSGD.fx	9:30:00 AM	1.37367	1.37367			N/A
6/18/2019	CHFSGD.fx	11:30:00 AM	1.37296	1.37277			N/A
6/18/2019	CHFSGD.fx	1:30:00 PM	1.37153	1.37132			N/A
6/18/2019	CHFSGD.fx	3:30:00 PM	1.37245	1.37239			N/A

6/18/2019	CHFZAR	9:30:00 AM	14.8014	14.8143			N/A
6/18/2019	CHFZAR	11:30:00 AM	14.7038	14.6987			N/A
6/18/2019	CHFZAR	1:30:00 PM	14.657	14.6693			N/A
6/18/2019	CHFZAR	3:30:00 PM	14.623	14.6317			N/A
6/18/2019	CZKJPY	9:30:00 AM	4.76	4.764			N/A
6/18/2019	CZKJPY	11:30:00 AM	4.74	4.743			N/A
6/18/2019	CZKJPY	1:30:00 PM	4.74	4.742			N/A
6/18/2019	CZKJPY	3:30:00 PM					N/A
6/18/2019	DAX30.i	9:30:00 AM	12082.57	12082.32			N/A
6/18/2019	DAX30.i	11:30:00 AM	12153.57	12145.57			N/A
6/18/2019	DAX30.i	1:30:00 PM	12222.07	12212.32			N/A
6/18/2019	DAX30.i	3:30:00 PM	12303.32	12299.32			N/A
6/18/2019	DJ30.i	9:30:00 AM					N/A
6/18/2019	DJ30.i	11:30:00 AM					N/A
6/18/2019	DJ30.i	1:30:00 PM					N/A
6/18/2019	DJ30.i	3:30:00 PM					N/A
6/18/2019	DKKJPY	9:30:00 AM					N/A
6/18/2019	DKKJPY	11:30:00 AM	16.24	16.25			N/A
6/18/2019	DKKJPY	1:30:00 PM	16.23	16.25			N/A
6/18/2019	DKKJPY	3:30:00 PM	16.23	16.24			N/A
6/18/2019	EURAUD	9:30:00 AM	1.64179	1.64221			N/A
6/18/2019	EURAUD	11:30:00 AM	1.63613	1.63628			N/A
6/18/2019	EURAUD	1:30:00 PM	1.63409	1.63443			N/A
6/18/2019	EURAUD	3:30:00 PM	1.63385	1.63396			N/A
6/18/2019	EURAUD.fx	9:30:00 AM	1.64203	1.64198			N/A
6/18/2019	EURAUD.fx	11:30:00 AM	1.63633	1.63604			N/A
6/18/2019	EURAUD.fx	1:30:00 PM	1.63429	1.63421			N/A
6/18/2019	EURAUD.fx	3:30:00 PM	1.63402	1.63374			N/A
6/18/2019	EURCAD	9:30:00 AM	1.50581	1.50653			N/A
6/18/2019	EURCAD	11:30:00 AM	1.50122	1.50171			N/A
6/18/2019	EURCAD	1:30:00 PM	1.5021	1.5028			N/A
6/18/2019	EURCAD	3:30:00 PM	1.5015	1.50206			N/A
6/18/2019	EURCAD.fx	9:30:00 AM	1.50622	1.50609			N/A
6/18/2019	EURCAD.fx	11:30:00 AM	1.50163	1.50129			N/A

6/18/2019	EURCAD.fx	1:30:00 PM	1.50251	1.50238			N/A
6/18/2019	EURCAD.fx	3:30:00 PM	1.50188	1.50164			N/A
6/18/2019	EURCHF	9:30:00 AM	1.1209	1.12095			N/A
6/18/2019	EURCHF	11:30:00 AM	1.11839	1.11835			N/A
6/18/2019	EURCHF	1:30:00 PM	1.11888	1.11872			N/A
6/18/2019	EURCHF	3:30:00 PM	1.11758	1.11757			N/A
6/18/2019	EURCHF.fx	9:30:00 AM	1.12097	1.12089			N/A
6/18/2019	EURCHF.fx	11:30:00 AM	1.11845	1.11829			N/A
6/18/2019	EURCHF.fx	1:30:00 PM	1.11893	1.11866			N/A
6/18/2019	EURCHF.fx	3:30:00 PM	1.11762	1.11751			N/A
6/18/2019	EURCZK	9:30:00 AM	25.526	25.565			N/A
6/18/2019	EURCZK	11:30:00 AM	25.55	25.586			N/A
6/18/2019	EURCZK	1:30:00 PM	25.554	25.593			N/A
6/18/2019	EURCZK	3:30:00 PM	25.568	25.606			N/A
6/18/2019	EURDKK	9:30:00 AM					N/A
6/18/2019	EURDKK	11:30:00 AM	7.466	7.4673			N/A
6/18/2019	EURDKK	1:30:00 PM	7.4654	7.4666			N/A
6/18/2019	EURDKK	3:30:00 PM	7.465	7.466			N/A
6/18/2019	EURGBP	9:30:00 AM	0.89637	0.8962			N/A
6/18/2019	EURGBP	11:30:00 AM	0.89374	0.89357			N/A
6/18/2019	EURGBP	1:30:00 PM	0.89342	0.89349			N/A
6/18/2019	EURGBP	3:30:00 PM	0.89412	0.89414			N/A
6/18/2019	EURGBP.fx	9:30:00 AM	0.89641	0.89615			N/A
6/18/2019	EURGBP.fx	11:30:00 AM	0.89379	0.89352			N/A
6/18/2019	EURGBP.fx	1:30:00 PM	0.89346	0.89344			N/A
6/18/2019	EURGBP.fx	3:30:00 PM	0.89414	0.89408			N/A
6/18/2019	EURHKD	9:30:00 AM	8.799	8.8034			N/A
6/18/2019	EURHKD	11:30:00 AM	8.7662	8.7692			N/A
6/18/2019	EURHKD	1:30:00 PM	8.7651	8.7692			N/A
6/18/2019	EURHKD	3:30:00 PM	8.7656	8.7686			N/A
6/18/2019	EURHKD.fx	9:30:00 AM	8.80186	8.80052			N/A
6/18/2019	EURHKD.fx	11:30:00 AM	8.76903	8.76632			N/A
6/18/2019	EURHKD.fx	1:30:00 PM	8.76787	8.76633			N/A
6/18/2019	EURHKD.fx	3:30:00 PM	8.7682	8.76579			N/A

6/18/2019	EURHUF	9:30:00 AM	321.79	322.4			N/A
6/18/2019	EURHUF	11:30:00 AM	321.76	322.46			N/A
6/18/2019	EURHUF	1:30:00 PM	321.84	322.42			N/A
6/18/2019	EURHUF	3:30:00 PM	322.07	322.55			N/A
6/18/2019	EURHUF.fx	9:30:00 AM	322.051	322.273			N/A
6/18/2019	EURHUF.fx	11:30:00 AM	322.031	322.179			N/A
6/18/2019	EURHUF.fx	1:30:00 PM	322.119	322.282			N/A
6/18/2019	EURHUF.fx	3:30:00 PM	322.371	322.528			N/A
6/18/2019	EURJPY	9:30:00 AM	121.648	121.634			N/A
6/18/2019	EURJPY	11:30:00 AM	121.227	121.198			N/A
6/18/2019	EURJPY	1:30:00 PM	121.235	121.211			N/A
6/18/2019	EURJPY	3:30:00 PM	121.122	121.109			N/A
6/18/2019	EURJPY.fx	9:30:00 AM	121.651	121.627			N/A
6/18/2019	EURJPY.fx	11:30:00 AM	121.23	121.194			N/A
6/18/2019	EURJPY.fx	1:30:00 PM	121.237	121.206			N/A
6/18/2019	EURJPY.fx	3:30:00 PM	121.125	121.105			N/A
6/18/2019	EURMXN	9:30:00 AM	21.5157	21.5329			N/A
6/18/2019	EURMXN	11:30:00 AM	21.4225	21.4306			N/A
6/18/2019	EURMXN	1:30:00 PM	21.4035	21.4208			N/A
6/18/2019	EURMXN	3:30:00 PM	21.3624	21.3779			N/A
6/18/2019	EURMXN.fx	9:30:00 AM	21.5248	21.5244			N/A
6/18/2019	EURMXN.fx	11:30:00 AM	21.4316	21.4218			N/A
6/18/2019	EURMXN.fx	1:30:00 PM	21.4122	21.4118			N/A
6/18/2019	EURMXN.fx	3:30:00 PM	21.3704	21.3693			N/A
6/18/2019	EURNOK	9:30:00 AM	9.7995	9.8097			N/A
6/18/2019	EURNOK	11:30:00 AM	9.78	9.7891			N/A
6/18/2019	EURNOK	1:30:00 PM	9.7781	9.79			N/A
6/18/2019	EURNOK	3:30:00 PM	9.7768	9.7884			N/A
6/18/2019	EURNOK.fx	9:30:00 AM	9.80499	9.80438			N/A
6/18/2019	EURNOK.fx	11:30:00 AM	9.78561	9.78356			N/A
6/18/2019	EURNOK.fx	1:30:00 PM	9.78369	9.78455			N/A
6/18/2019	EURNOK.fx	3:30:00 PM	9.78231	9.78314			N/A
6/18/2019	EURNZD	9:30:00 AM	1.72898	1.72978			N/A
6/18/2019	EURNZD	11:30:00 AM	1.72018	1.72073			N/A

6/18/2019	EURNZD	1:30:00 PM	1.71806	1.7188			N/A
6/18/2019	EURNZD	3:30:00 PM	1.71902	1.71933			N/A
6/18/2019	EURNZD.fx	9:30:00 AM	1.72938	1.72934			N/A
6/18/2019	EURNZD.fx	11:30:00 AM	1.72059	1.72031			N/A
6/18/2019	EURNZD.fx	1:30:00 PM	1.71849	1.71835			N/A
6/18/2019	EURNZD.fx	3:30:00 PM	1.71939	1.71889			N/A
6/18/2019	EURPLN	9:30:00 AM	4.2606	4.264			N/A
6/18/2019	EURPLN	11:30:00 AM	4.2607	4.2637			N/A
6/18/2019	EURPLN	1:30:00 PM	4.2592	4.2622			N/A
6/18/2019	EURPLN	3:30:00 PM	4.2547	4.2579			N/A
6/18/2019	EURPLN.fx	9:30:00 AM	4.25987	4.26462			N/A
6/18/2019	EURPLN.fx	11:30:00 AM	4.26012	4.26447			N/A
6/18/2019	EURPLN.fx	1:30:00 PM	4.25867	4.26276			N/A
6/18/2019	EURPLN.fx	3:30:00 PM	4.2539	4.25842			N/A
6/18/2019	EURRUB	9:30:00 AM					N/A
6/18/2019	EURRUB	11:30:00 AM	71.62	72.032			N/A
6/18/2019	EURRUB	1:30:00 PM	71.605	72.042			N/A
6/18/2019	EURRUB	3:30:00 PM	71.531	71.922			N/A
6/18/2019	EURSEK	9:30:00 AM	10.6419	10.6457			N/A
6/18/2019	EURSEK	11:30:00 AM	10.6199	10.6217			N/A
6/18/2019	EURSEK	1:30:00 PM	10.6352	10.6404			N/A
6/18/2019	EURSEK	3:30:00 PM	10.6415	10.6463			N/A
6/18/2019	EURSEK.fx	9:30:00 AM	10.64346	10.64414			N/A
6/18/2019	EURSEK.fx	11:30:00 AM	10.62173	10.61972			N/A
6/18/2019	EURSEK.fx	1:30:00 PM	10.6367	10.63892			N/A
6/18/2019	EURSEK.fx	3:30:00 PM	10.64316	10.64502			N/A
6/18/2019	EURSGD	9:30:00 AM	1.5394	1.5402			N/A
6/18/2019	EURSGD	11:30:00 AM	1.5351	1.5357			N/A
6/18/2019	EURSGD	1:30:00 PM	1.534	1.5347			N/A
6/18/2019	EURSGD	3:30:00 PM	1.5335	1.534			N/A
6/18/2019	EURSGD.fx	9:30:00 AM	1.53982	1.53978			N/A
6/18/2019	EURSGD.fx	11:30:00 AM	1.53552	1.53531			N/A
6/18/2019	EURSGD.fx	1:30:00 PM	1.53442	1.53433			N/A
6/18/2019	EURSGD.fx	3:30:00 PM	1.53383	1.53358			N/A

6/18/2019	EURUSD	9:30:00 AM	1.12329	1.12329			N/A
6/18/2019	EURUSD	11:30:00 AM	1.11914	1.11894			N/A
6/18/2019	EURUSD	1:30:00 PM	1.11902	1.11896			N/A
6/18/2019	EURUSD	3:30:00 PM	1.119	1.1188			N/A
6/18/2019	EURUSD.fx	9:30:00 AM	1.1235	1.12338			N/A
6/18/2019	EURUSD.fx	11:30:00 AM	1.11934	1.11904			N/A
6/18/2019	EURUSD.fx	1:30:00 PM	1.11922	1.11905			N/A
6/18/2019	EURUSD.fx	3:30:00 PM	1.11919	1.1189			N/A
6/18/2019	EURZAR	9:30:00 AM	16.5937	16.6124			N/A
6/18/2019	EURZAR	11:30:00 AM	16.4461	16.4443			N/A
6/18/2019	EURZAR	1:30:00 PM	16.4012	16.4161			N/A
6/18/2019	EURZAR	3:30:00 PM	16.3487	16.3574			N/A
6/18/2019	EURZAR.fx	9:30:00 AM	16.5925	16.61334			N/A
6/18/2019	EURZAR.fx	11:30:00 AM	16.44529	16.44476			N/A
6/18/2019	EURZAR.fx	1:30:00 PM	16.40034	16.41696			N/A
6/18/2019	EURZAR.fx	3:30:00 PM	16.34674	16.35811			N/A
6/18/2019	GBPAUD	9:30:00 AM	1.8325	1.83284			N/A
6/18/2019	GBPAUD	11:30:00 AM	1.83142	1.83176			N/A
6/18/2019	GBPAUD	1:30:00 PM	1.82946	1.83013			N/A
6/18/2019	GBPAUD	3:30:00 PM	1.82771	1.82844			N/A
6/18/2019	GBPAUD.fx	9:30:00 AM	1.83288	1.83243			N/A
6/18/2019	GBPAUD.fx	11:30:00 AM	1.83181	1.83138			N/A
6/18/2019	GBPAUD.fx	1:30:00 PM	1.82987	1.82972			N/A
6/18/2019	GBPAUD.fx	3:30:00 PM	1.8281	1.82801			N/A
6/18/2019	GBPCAD	9:30:00 AM	1.6802	1.68069			N/A
6/18/2019	GBPCAD	11:30:00 AM	1.67987	1.68035			N/A
6/18/2019	GBPCAD	1:30:00 PM	1.6812	1.68203			N/A
6/18/2019	GBPCAD	3:30:00 PM	1.67942	1.67993			N/A
6/18/2019	GBPCAD.fx	9:30:00 AM	1.68059	1.68029			N/A
6/18/2019	GBPCAD.fx	11:30:00 AM	1.68027	1.67995			N/A
6/18/2019	GBPCAD.fx	1:30:00 PM	1.68158	1.68165			N/A
6/18/2019	GBPCAD.fx	3:30:00 PM	1.6798	1.67953			N/A
6/18/2019	GBPCHF	9:30:00 AM	1.25058	1.25071			N/A
6/18/2019	GBPCHF	11:30:00 AM	1.25136	1.25153			N/A

6/18/2019	GBPCHF	1:30:00 PM	1.25207	1.25235			N/A
6/18/2019	GBPCHF	3:30:00 PM	1.24968	1.25008			N/A
6/18/2019	GBPCHF.fx	9:30:00 AM	1.25078	1.25049			N/A
6/18/2019	GBPCHF.fx	11:30:00 AM	1.25154	1.25134			N/A
6/18/2019	GBPCHF.fx	1:30:00 PM	1.25226	1.25214			N/A
6/18/2019	GBPCHF.fx	3:30:00 PM	1.24987	1.24986			N/A
6/18/2019	GBPCZK	9:30:00 AM	28.493	28.506			N/A
6/18/2019	GBPCZK	11:30:00 AM	28.604	28.617			N/A
6/18/2019	GBPCZK	1:30:00 PM	28.612	28.632			N/A
6/18/2019	GBPCZK	3:30:00 PM	28.608	28.626			N/A
6/18/2019	GBPDKK	9:30:00 AM	8.327	8.336			N/A
6/18/2019	GBPDKK	11:30:00 AM	8.352	8.361			N/A
6/18/2019	GBPDKK	1:30:00 PM	8.353	8.364			N/A
6/18/2019	GBPDKK	3:30:00 PM	8.347	8.357			N/A
6/18/2019	GBPDKK.fx	9:30:00 AM	8.3263	8.3365			N/A
6/18/2019	GBPDKK.fx	11:30:00 AM	8.3506	8.361			N/A
6/18/2019	GBPDKK.fx	1:30:00 PM	8.3515	8.3641			N/A
6/18/2019	GBPDKK.fx	3:30:00 PM	8.3453	8.3575			N/A
6/18/2019	GBPHKD	9:30:00 AM	9.8154	9.8186			N/A
6/18/2019	GBPHKD	11:30:00 AM	9.8062	9.8106			N/A
6/18/2019	GBPHKD	1:30:00 PM	9.8076	9.8123			N/A
6/18/2019	GBPHKD	3:30:00 PM	9.8	9.805			N/A
6/18/2019	GBPHUF	9:30:00 AM	359.08	359.44			N/A
6/18/2019	GBPHUF	11:30:00 AM	360.05	360.46			N/A
6/18/2019	GBPHUF	1:30:00 PM	360.21	360.66			N/A
6/18/2019	GBPHUF	3:30:00 PM	360.21	360.52			N/A
6/18/2019	GBPJPY	9:30:00 AM	135.696	135.712			N/A
6/18/2019	GBPJPY	11:30:00 AM	135.637	135.637			N/A
6/18/2019	GBPJPY	1:30:00 PM	135.665	135.684			N/A
6/18/2019	GBPJPY	3:30:00 PM	135.455	135.468			N/A
6/18/2019	GBPJPY.fx	9:30:00 AM	135.715	135.692			N/A
6/18/2019	GBPJPY.fx	11:30:00 AM	135.657	135.617			N/A
6/18/2019	GBPJPY.fx	1:30:00 PM	135.684	135.664			N/A
6/18/2019	GBPJPY.fx	3:30:00 PM	135.475	135.448			N/A

6/18/2019	GBPMXN	9:30:00 AM	24.0014	24.0134			N/A
6/18/2019	GBPMXN	11:30:00 AM	23.9686	23.9691			N/A
6/18/2019	GBPMXN	1:30:00 PM	23.9499	23.9645			N/A
6/18/2019	GBPMXN	3:30:00 PM	23.8886	23.8959			N/A
6/18/2019	GBPNOK	9:30:00 AM	10.9364	10.9418			N/A
6/18/2019	GBPNOK	11:30:00 AM	10.9463	10.9528			N/A
6/18/2019	GBPNOK	1:30:00 PM	10.9458	10.9563			N/A
6/18/2019	GBPNOK	3:30:00 PM	10.9362	10.9456			N/A
6/18/2019	GBPNOK.fx	9:30:00 AM	10.9415	10.93687			N/A
6/18/2019	GBPNOK.fx	11:30:00 AM	10.95149	10.94786			N/A
6/18/2019	GBPNOK.fx	1:30:00 PM	10.95083	10.95137			N/A
6/18/2019	GBPNOK.fx	3:30:00 PM	10.941	10.94085			N/A
6/18/2019	GBPNZD	9:30:00 AM	1.9294	1.92955			N/A
6/18/2019	GBPNZD	11:30:00 AM	1.92505	1.92523			N/A
6/18/2019	GBPNZD	1:30:00 PM	1.92297	1.9237			N/A
6/18/2019	GBPNZD	3:30:00 PM	1.92254	1.92304			N/A
6/18/2019	GBPNZD.fx	9:30:00 AM	1.92975	1.92916			N/A
6/18/2019	GBPNZD.fx	11:30:00 AM	1.9254	1.92485			N/A
6/18/2019	GBPNZD.fx	1:30:00 PM	1.92337	1.92333			N/A
6/18/2019	GBPNZD.fx	3:30:00 PM	1.92283	1.92266			N/A
6/18/2019	GBPPLN	9:30:00 AM	4.7551	4.7558			N/A
6/18/2019	GBPPLN	11:30:00 AM	4.769	4.7696			N/A
6/18/2019	GBPPLN	1:30:00 PM	4.7679	4.7695			N/A
6/18/2019	GBPPLN	3:30:00 PM	4.7593	4.761			N/A
6/18/2019	GBPPLN.fx	9:30:00 AM	4.75275	4.75801			N/A
6/18/2019	GBPPLN.fx	11:30:00 AM	4.76691	4.77188			N/A
6/18/2019	GBPPLN.fx	1:30:00 PM	4.76564	4.77177			N/A
6/18/2019	GBPPLN.fx	3:30:00 PM	4.75704	4.76344			N/A
6/18/2019	GBPSEK	9:30:00 AM	11.8725	11.8773			N/A
6/18/2019	GBPSEK	11:30:00 AM	11.882	11.889			N/A
6/18/2019	GBPSEK	1:30:00 PM	11.9018	11.9106			N/A
6/18/2019	GBPSEK	3:30:00 PM	11.9005	11.9081			N/A
6/18/2019	GBPSEK.fx	9:30:00 AM	11.8689	11.88099			N/A
6/18/2019	GBPSEK.fx	11:30:00 AM	11.87833	11.89242			N/A

6/18/2019	GBPSEK.fx	1:30:00 PM	11.89792	11.91456			N/A
6/18/2019	GBPSEK.fx	3:30:00 PM	11.89654	11.91224			N/A
6/18/2019	GBPSGD	9:30:00 AM	1.7178	1.7182			N/A
6/18/2019	GBPSGD	11:30:00 AM	1.7179	1.7183			N/A
6/18/2019	GBPSGD	1:30:00 PM	1.717	1.7178			N/A
6/18/2019	GBPSGD	3:30:00 PM	1.715	1.7157			N/A
6/18/2019	GBPSGD.fx	9:30:00 AM	1.71594	1.72003			N/A
6/18/2019	GBPSGD.fx	11:30:00 AM	1.71606	1.72016			N/A
6/18/2019	GBPSGD.fx	1:30:00 PM	1.71513	1.71955			N/A
6/18/2019	GBPSGD.fx	3:30:00 PM	1.71313	1.71752			N/A
6/18/2019	GBPUSD	9:30:00 AM	1.25353	1.25335			N/A
6/18/2019	GBPUSD	11:30:00 AM	1.2524	1.25225			N/A
6/18/2019	GBPUSD	1:30:00 PM	1.25255	1.25256			N/A
6/18/2019	GBPUSD	3:30:00 PM	1.2516	1.25152			N/A
6/18/2019	GBPUSD.fx	9:30:00 AM	1.25358	1.2533			N/A
6/18/2019	GBPUSD.fx	11:30:00 AM	1.25246	1.25218			N/A
6/18/2019	GBPUSD.fx	1:30:00 PM	1.25259	1.25249			N/A
6/18/2019	GBPUSD.fx	3:30:00 PM	1.25166	1.25145			N/A
6/18/2019	GBPZAR	9:30:00 AM	18.5143	18.5357			N/A
6/18/2019	GBPZAR	11:30:00 AM	18.3998	18.4028			N/A
6/18/2019	GBPZAR	1:30:00 PM	18.3517	18.3787			N/A
6/18/2019	GBPZAR	3:30:00 PM	18.2792	18.2981			N/A
6/18/2019	GBPZAR.fx	9:30:00 AM	18.5205	18.5295			N/A
6/18/2019	GBPZAR.fx	11:30:00 AM	18.4057	18.3953			N/A
6/18/2019	GBPZAR.fx	1:30:00 PM	18.3589	18.3715			N/A
6/18/2019	GBPZAR.fx	3:30:00 PM	18.2845	18.2909			N/A
6/18/2019	GOLD	9:30:00 AM	1346.53	1346.54			N/A
6/18/2019	GOLD	11:30:00 AM	1346.25	1345.81			N/A
6/18/2019	GOLD	1:30:00 PM	1345.73	1345.79			N/A
6/18/2019	GOLD	3:30:00 PM	1352.15	1351.83			N/A
6/18/2019	HKDJPY	9:30:00 AM	13.82	13.83			N/A
6/18/2019	HKDJPY	11:30:00 AM	13.83	13.83			N/A
6/18/2019	HKDJPY	1:30:00 PM	13.83	13.84			N/A
6/18/2019	HKDJPY	3:30:00 PM	13.82	13.82			N/A

6/18/2019	HKDJPY.fx	9:30:00 AM	13.816	13.823			N/A
6/18/2019	HKDJPY.fx	11:30:00 AM	13.822	13.827			N/A
6/18/2019	HKDJPY.fx	1:30:00 PM	13.823	13.829			N/A
6/18/2019	HKDJPY.fx	3:30:00 PM	13.814	13.815			N/A
6/18/2019	HUFJPY	9:30:00 AM	0.3779	0.3782			N/A
6/18/2019	HUFJPY	11:30:00 AM	0.3766	0.3769			N/A
6/18/2019	HUFJPY	1:30:00 PM	0.3765	0.3768			N/A
6/18/2019	HUFJPY	3:30:00 PM	0.376	0.3763			N/A
6/18/2019	JP225.i	9:30:00 AM	20963.53	20980.2			N/A
6/18/2019	JP225.i	11:30:00 AM	21015.2	21030.2			N/A
6/18/2019	JP225.i	1:30:00 PM	21035.2	21047.7			N/A
6/18/2019	JP225.i	3:30:00 PM	21065.2	21080.2			N/A
6/18/2019	MXNJPY	9:30:00 AM					N/A
6/18/2019	MXNJPY	11:30:00 AM	5.66	5.67			N/A
6/18/2019	MXNJPY	1:30:00 PM					N/A
6/18/2019	MXNJPY	3:30:00 PM	5.67	5.68			N/A
6/18/2019	NASDAQ.i	9:30:00 AM					N/A
6/18/2019	NASDAQ.i	11:30:00 AM					N/A
6/18/2019	NASDAQ.i	1:30:00 PM					N/A
6/18/2019	NASDAQ.i	3:30:00 PM					N/A
6/18/2019	NOKJPY	9:30:00 AM	12.4	12.42			N/A
6/18/2019	NOKJPY	11:30:00 AM	12.38	12.41			N/A
6/18/2019	NOKJPY	1:30:00 PM	12.38	12.41			N/A
6/18/2019	NOKJPY	3:30:00 PM	12.37	12.4			N/A
6/18/2019	NOKJPY.fx	9:30:00 AM	12.405	12.407			N/A
6/18/2019	NOKJPY.fx	11:30:00 AM	12.384	12.39			N/A
6/18/2019	NOKJPY.fx	1:30:00 PM	12.387	12.392			N/A
6/18/2019	NOKJPY.fx	3:30:00 PM	12.379	12.384			N/A
6/18/2019	NZDCAD	9:30:00 AM	0.8706	0.87126			N/A
6/18/2019	NZDCAD	11:30:00 AM	0.87242	0.87303			N/A
6/18/2019	NZDCAD	1:30:00 PM	0.874	0.87469			N/A
6/18/2019	NZDCAD	3:30:00 PM	0.87334	0.87387			N/A
6/18/2019	NZDCAD.fx	9:30:00 AM	0.87094	0.87091			N/A
6/18/2019	NZDCAD.fx	11:30:00 AM	0.87275	0.8727			N/A

6/18/2019	NZDCAD.fx	1:30:00 PM	0.87434	0.87434			N/A
6/18/2019	NZDCAD.fx	3:30:00 PM	0.87368	0.87348			N/A
6/18/2019	NZDCHF	9:30:00 AM	0.64783	0.64851			N/A
6/18/2019	NZDCHF	11:30:00 AM	0.64974	0.65036			N/A
6/18/2019	NZDCHF	1:30:00 PM	0.65077	0.65136			N/A
6/18/2019	NZDCHF	3:30:00 PM	0.64974	0.65035			N/A
6/18/2019	NZDCHF.fx	9:30:00 AM	0.64818	0.64815			N/A
6/18/2019	NZDCHF.fx	11:30:00 AM	0.65009	0.65			N/A
6/18/2019	NZDCHF.fx	1:30:00 PM	0.65111	0.651			N/A
6/18/2019	NZDCHF.fx	3:30:00 PM	0.65008	0.65			N/A
6/18/2019	NZDCZK	9:30:00 AM	14.764	14.776			N/A
6/18/2019	NZDCZK	11:30:00 AM	14.855	14.866			N/A
6/18/2019	NZDCZK	1:30:00 PM	14.875	14.886			N/A
6/18/2019	NZDCZK	3:30:00 PM	14.88	14.886			N/A
6/18/2019	NZDDKK	9:30:00 AM					N/A
6/18/2019	NZDDKK	11:30:00 AM					N/A
6/18/2019	NZDDKK	1:30:00 PM					N/A
6/18/2019	NZDDKK	3:30:00 PM	4.342	4.344			N/A
6/18/2019	NZDHKD	9:30:00 AM	5.086	5.0888			N/A
6/18/2019	NZDHKD	11:30:00 AM	5.0927	5.0956			N/A
6/18/2019	NZDHKD	1:30:00 PM	5.0987	5.1012			N/A
6/18/2019	NZDHKD	3:30:00 PM	5.096	5.0989			N/A
6/18/2019	NZDHUF	9:30:00 AM	186.04	186.34			N/A
6/18/2019	NZDHUF	11:30:00 AM	186.97	187.25			N/A
6/18/2019	NZDHUF	1:30:00 PM	187.25	187.52			N/A
6/18/2019	NZDHUF	3:30:00 PM	187.32	187.49			N/A
6/18/2019	NZDJPY	9:30:00 AM	70.304	70.367			N/A
6/18/2019	NZDJPY	11:30:00 AM	70.426	70.484			N/A
6/18/2019	NZDJPY	1:30:00 PM	70.512	70.571			N/A
6/18/2019	NZDJPY	3:30:00 PM	70.428	70.48			N/A
6/18/2019	NZDJPY.fx	9:30:00 AM	70.338	70.334			N/A
6/18/2019	NZDJPY.fx	11:30:00 AM	70.457	70.452			N/A
6/18/2019	NZDJPY.fx	1:30:00 PM	70.542	70.538			N/A
6/18/2019	NZDJPY.fx	3:30:00 PM	70.459	70.447			N/A

6/18/2019	NZDMXN	9:30:00 AM	12.4386	12.4444			N/A
6/18/2019	NZDMXN	11:30:00 AM	12.4479	12.4492			N/A
6/18/2019	NZDMXN	1:30:00 PM	12.4528	12.4571			N/A
6/18/2019	NZDMXN	3:30:00 PM	12.4243	12.4248			N/A
6/18/2019	NZDNOK	9:30:00 AM	5.666	5.6681			N/A
6/18/2019	NZDNOK	11:30:00 AM	5.684	5.6857			N/A
6/18/2019	NZDNOK	1:30:00 PM	5.6897	5.6924			N/A
6/18/2019	NZDNOK	3:30:00 PM	5.6866	5.6862			N/A
6/18/2019	NZDPLN	9:30:00 AM	2.4628	2.4643			N/A
6/18/2019	NZDPLN	11:30:00 AM	2.4755	2.4769			N/A
6/18/2019	NZDPLN	1:30:00 PM	2.4779	2.479			N/A
6/18/2019	NZDPLN	3:30:00 PM	2.4737	2.474			N/A
6/18/2019	NZDSEK	9:30:00 AM	6.1485	6.1554			N/A
6/18/2019	NZDSEK	11:30:00 AM	6.1682	6.1742			N/A
6/18/2019	NZDSEK	1:30:00 PM	6.1844	6.1906			N/A
6/18/2019	NZDSEK	3:30:00 PM	6.1859	6.1908			N/A
6/18/2019	NZDSGD	9:30:00 AM	0.8901	0.8905			N/A
6/18/2019	NZDSGD	11:30:00 AM	0.8922	0.8928			N/A
6/18/2019	NZDSGD	1:30:00 PM	0.8926	0.8928			N/A
6/18/2019	NZDSGD	3:30:00 PM	0.8919	0.8922			N/A
6/18/2019	NZDSGD.fx	9:30:00 AM	0.8901	0.89062			N/A
6/18/2019	NZDSGD.fx	11:30:00 AM	0.89219	0.89272			N/A
6/18/2019	NZDSGD.fx	1:30:00 PM	0.8926	0.8932			N/A
6/18/2019	NZDSGD.fx	3:30:00 PM	0.89188	0.89242			N/A
6/18/2019	NZDUSD	9:30:00 AM	0.64952	0.64962			N/A
6/18/2019	NZDUSD	11:30:00 AM	0.65044	0.65049			N/A
6/18/2019	NZDUSD	1:30:00 PM	0.65114	0.65124			N/A
6/18/2019	NZDUSD	3:30:00 PM	0.65083	0.65093			N/A
6/18/2019	NZDUSD.fx	9:30:00 AM	0.64959	0.64963			N/A
6/18/2019	NZDUSD.fx	11:30:00 AM	0.65051	0.65051		1000	N/A
6/18/2019	NZDUSD.fx	1:30:00 PM	0.65121	0.65126			N/A
6/18/2019	NZDUSD.fx	3:30:00 PM	0.6509	0.65093			N/A
6/18/2019	NZDZAR	9:30:00 AM	9.5865	9.6039			N/A
6/18/2019	NZDZAR	11:30:00 AM	9.551	9.5563			N/A

6/18/2019	NZDZAR	1:30:00 PM	9.5359	9.5516			N/A
6/18/2019	NZDZAR	3:30:00 PM	9.4971	9.5117			N/A
6/18/2019	SEKJPY	9:30:00 AM	11.43	11.44			N/A
6/18/2019	SEKJPY	11:30:00 AM	11.41	11.42			N/A
6/18/2019	SEKJPY	1:30:00 PM	11.39	11.4			N/A
6/18/2019	SEKJPY	3:30:00 PM	11.38	11.39			N/A
6/18/2019	SEKJPY.fx	9:30:00 AM	11.42	11.436			N/A
6/18/2019	SEKJPY.fx	11:30:00 AM	11.404	11.42			N/A
6/18/2019	SEKJPY.fx	1:30:00 PM	11.387	11.403			N/A
6/18/2019	SEKJPY.fx	3:30:00 PM	11.37	11.388			N/A
6/18/2019	SGDJPY	9:30:00 AM	78.96	78.99			N/A
6/18/2019	SGDJPY	11:30:00 AM	78.92	78.94			N/A
6/18/2019	SGDJPY	1:30:00 PM	78.99	78.99			N/A
6/18/2019	SGDJPY	3:30:00 PM	78.94	78.96			N/A
6/18/2019	SILVER	9:30:00 AM	14.71	15.09			N/A
6/18/2019	SILVER	11:30:00 AM	14.7	15.08			N/A
6/18/2019	SILVER	1:30:00 PM	14.7	15.07			N/A
6/18/2019	SILVER	3:30:00 PM	14.8	15.17			N/A
6/18/2019	SPX500.i	9:30:00 AM	2890.44	2891.51			N/A
6/18/2019	SPX500.i	11:30:00 AM	2899.87	2900.42			N/A
6/18/2019	SPX500.i	1:30:00 PM	2902.12	2902.17			N/A
6/18/2019	SPX500.i	3:30:00 PM	2910.37	2911.17			N/A
6/18/2019	UK100.i	9:30:00 AM	7369.17	7370.67			N/A
6/18/2019	UK100.i	11:30:00 AM	7400.92	7400.17			N/A
6/18/2019	UK100.i	1:30:00 PM	7410.17	7409.92			N/A
6/18/2019	UK100.i	3:30:00 PM	7448.67	7446.42			N/A
6/18/2019	USDCAD	9:30:00 AM	1.34063	1.34079			N/A
6/18/2019	USDCAD	11:30:00 AM	1.3416	1.34167			N/A
6/18/2019	USDCAD	1:30:00 PM	1.34259	1.3426			N/A
6/18/2019	USDCAD	3:30:00 PM	1.3423	1.34187			N/A
6/18/2019	USDCAD.fx	9:30:00 AM	1.34066	1.34076			N/A
6/18/2019	USDCAD.fx	11:30:00 AM	1.34164	1.34163			N/A
6/18/2019	USDCAD.fx	1:30:00 PM	1.34263	1.34257			N/A
6/18/2019	USDCAD.fx	3:30:00 PM	1.34232	1.34184			N/A

6/18/2019	USDCHF	9:30:00 AM	0.99776	0.99778			N/A
6/18/2019	USDCHF	11:30:00 AM	0.99939	0.9992			N/A
6/18/2019	USDCHF	1:30:00 PM	0.99981	0.99968			N/A
6/18/2019	USDCHF	3:30:00 PM	0.99872	0.9986			N/A
6/18/2019	USDCHF.fx	9:30:00 AM	0.99781	0.99771			N/A
6/18/2019	USDCHF.fx	11:30:00 AM	0.99944	0.99914			N/A
6/18/2019	USDCHF.fx	1:30:00 PM	0.99985	0.99961			N/A
6/18/2019	USDCHF.fx	3:30:00 PM	0.99876	0.99854			N/A
6/18/2019	USDCZK	9:30:00 AM	22.748	22.77			N/A
6/18/2019	USDCZK	11:30:00 AM	22.856	22.874			N/A
6/18/2019	USDCZK	1:30:00 PM	22.86	22.881			N/A
6/18/2019	USDCZK	3:30:00 PM	22.878	22.894			N/A
6/18/2019	USDCZK.fx	9:30:00 AM	22.755	22.7633			N/A
6/18/2019	USDCZK.fx	11:30:00 AM	22.8658	22.8648			N/A
6/18/2019	USDCZK.fx	1:30:00 PM	22.8686	22.8711			N/A
6/18/2019	USDCZK.fx	3:30:00 PM	22.886	22.8871			N/A
6/18/2019	USDDKK	9:30:00 AM	6.6459	6.6491			N/A
6/18/2019	USDDKK	11:30:00 AM	6.6717	6.674			N/A
6/18/2019	USDDKK	1:30:00 PM	6.6716	6.6746			N/A
6/18/2019	USDDKK	3:30:00 PM	6.6722	6.6748			N/A
6/18/2019	USDDKK.fx	9:30:00 AM	6.64641	6.64707			N/A
6/18/2019	USDDKK.fx	11:30:00 AM	6.67206	6.67174			N/A
6/18/2019	USDDKK.fx	1:30:00 PM	6.67207	6.67255			N/A
6/18/2019	USDDKK.fx	3:30:00 PM	6.67292	6.67274			N/A
6/18/2019	USDHKD	9:30:00 AM	7.8339	7.8342			N/A
6/18/2019	USDHKD	11:30:00 AM	7.8338	7.834			N/A
6/18/2019	USDHKD	1:30:00 PM	7.8336	7.8339			N/A
6/18/2019	USDHKD	3:30:00 PM	7.8342	7.8342			N/A
6/18/2019	USDHKD.fx	9:30:00 AM	7.83387	7.83441			N/A
6/18/2019	USDHKD.fx	11:30:00 AM	7.83369	7.83425			N/A
6/18/2019	USDHKD.fx	1:30:00 PM	7.83355	7.8341			N/A
6/18/2019	USDHKD.fx	3:30:00 PM	7.83414	7.83468			N/A
6/18/2019	USDHUF	9:30:00 AM	286.53	287			N/A
6/18/2019	USDHUF	11:30:00 AM	287.59	288.03			N/A

6/18/2019	USDHUF	1:30:00 PM	287.69	288.13			N/A
6/18/2019	USDHUF	3:30:00 PM	287.94	288.36			N/A
6/18/2019	USDHUF.fx	9:30:00 AM	286.722	286.795			N/A
6/18/2019	USDHUF.fx	11:30:00 AM	287.785	287.83			N/A
6/18/2019	USDHUF.fx	1:30:00 PM	287.893	287.924			N/A
6/18/2019	USDHUF.fx	3:30:00 PM	288.142	288.147			N/A
6/18/2019	USDINR	9:30:00 AM	64.81	74.8			N/A
6/18/2019	USDINR	11:30:00 AM	64.8	74.79			N/A
6/18/2019	USDINR	1:30:00 PM					N/A
6/18/2019	USDINR	3:30:00 PM					N/A
6/18/2019	USDJPY	9:30:00 AM	108.269	108.273			N/A
6/18/2019	USDJPY	11:30:00 AM	108.313	108.308			N/A
6/18/2019	USDJPY	1:30:00 PM	108.317	108.318			N/A
6/18/2019	USDJPY	3:30:00 PM	108.253	108.216			N/A
6/18/2019	USDJPY.fx	9:30:00 AM	108.275	108.266			N/A
6/18/2019	USDJPY.fx	11:30:00 AM	108.318	108.301			N/A
6/18/2019	USDJPY.fx	1:30:00 PM	108.323	108.311			N/A
6/18/2019	USDJPY.fx	3:30:00 PM	108.259	108.21			N/A
6/18/2019	USDMXN	9:30:00 AM	19.156	19.163			N/A
6/18/2019	USDMXN	11:30:00 AM	19.145	19.146			N/A
6/18/2019	USDMXN	1:30:00 PM	19.131	19.137			N/A
6/18/2019	USDMXN	3:30:00 PM	19.097	19.099			N/A
6/18/2019	USDMXN.f	9:30:00 AM					N/A
6/18/2019	USDMXN.f	11:30:00 AM					N/A
6/18/2019	USDMXN.f	1:30:00 PM					N/A
6/18/2019	USDMXN.f	3:30:00 PM					N/A
6/18/2019	USDNOK	9:30:00 AM	8.7247	8.7304			N/A
6/18/2019	USDNOK	11:30:00 AM	8.7405	8.7469			N/A
6/18/2019	USDNOK	1:30:00 PM	8.7394	8.7464			N/A
6/18/2019	USDNOK	3:30:00 PM	8.7394	8.7449			N/A
6/18/2019	USDNOK.fx	9:30:00 AM	8.72871	8.72584			N/A
6/18/2019	USDNOK.fx	11:30:00 AM	8.74467	8.74248			N/A
6/18/2019	USDNOK.fx	1:30:00 PM	8.74328	8.74178			N/A
6/18/2019	USDNOK.fx	3:30:00 PM	8.74328	8.74057			N/A

6/18/2019	USDPLN	9:30:00 AM	3.793	3.7945			N/A
6/18/2019	USDPLN	11:30:00 AM	3.8079	3.8083			N/A
6/18/2019	USDPLN	1:30:00 PM	3.8063	3.8074			N/A
6/18/2019	USDPLN	3:30:00 PM	3.8028	3.8037			N/A
6/18/2019	USDPLN.fx	9:30:00 AM	3.79206	3.79519			N/A
6/18/2019	USDPLN.fx	11:30:00 AM	3.80708	3.80907			N/A
6/18/2019	USDPLN.fx	1:30:00 PM	3.80555	3.8082			N/A
6/18/2019	USDPLN.fx	3:30:00 PM	3.80208	3.8045			N/A
6/18/2019	USDRUB	9:30:00 AM					N/A
6/18/2019	USDRUB	11:30:00 AM	64.108	64.484			N/A
6/18/2019	USDRUB	1:30:00 PM	64.1	64.493			N/A
6/18/2019	USDRUB	3:30:00 PM	64.027	64.392			N/A
6/18/2019	USDSEK	9:30:00 AM	9.4722	9.4748			N/A
6/18/2019	USDSEK	11:30:00 AM	9.489	9.4916			N/A
6/18/2019	USDSEK	1:30:00 PM	9.5033	9.5064			N/A
6/18/2019	USDSEK	3:30:00 PM	9.5102	9.5121			N/A
6/18/2019	USDSEK.fx	9:30:00 AM	9.47459	9.47331			N/A
6/18/2019	USDSEK.fx	11:30:00 AM	9.49168	9.48972			N/A
6/18/2019	USDSEK.fx	1:30:00 PM	9.50595	9.50453			N/A
6/18/2019	USDSEK.fx	3:30:00 PM	9.51288	9.51058			N/A
6/18/2019	USDSGD	9:30:00 AM	1.3705	1.3709			N/A
6/18/2019	USDSGD	11:30:00 AM	1.3718	1.3721			N/A
6/18/2019	USDSGD	1:30:00 PM	1.3709	1.3713			N/A
6/18/2019	USDSGD	3:30:00 PM	1.3705	1.3708			N/A
6/18/2019	USDSGD.fx	9:30:00 AM	1.37039	1.37086			N/A
6/18/2019	USDSGD.fx	11:30:00 AM	1.37174	1.37214			N/A
6/18/2019	USDSGD.fx	1:30:00 PM	1.37087	1.37123			N/A
6/18/2019	USDSGD.fx	3:30:00 PM	1.37038	1.37078			N/A
6/18/2019	USDZAR	9:30:00 AM	14.7712	14.7865			N/A
6/18/2019	USDZAR	11:30:00 AM	14.694	14.6935			N/A
6/18/2019	USDZAR	1:30:00 PM	14.6546	14.6699			N/A
6/18/2019	USDZAR	3:30:00 PM	14.6059	14.6188			N/A
6/18/2019	USDZAR.fx	9:30:00 AM					N/A
6/18/2019	USDZAR.fx	11:30:00 AM					N/A

6/18/2019	USDZAR.fx	1:30:00 PM					N/A
6/18/2019	USDZAR.fx	3:30:00 PM					N/A
6/18/2019	XAUUSD	9:30:00 AM	1346.59	1346.54			N/A
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6/19/2019	#QQQ	3:30:00 PM					N/A
6/19/2019	#Ripple	9:30:00 AM	0.4288	0.4332			N/A
6/19/2019	#Ripple	11:30:00 AM	0.4339	0.438			N/A
6/19/2019	#Ripple	1:30:00 PM	0.4303	0.4349			N/A
6/19/2019	#Ripple	3:30:00 PM	0.4304	0.4346			N/A
6/19/2019	#S	9:30:00 AM					N/A
6/19/2019	#S	11:30:00 AM					N/A
6/19/2019	#S	1:30:00 PM					N/A
6/19/2019	#S	3:30:00 PM					N/A
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6/19/2019	#SBUX	11:30:00 AM					N/A
6/19/2019	#SBUX	1:30:00 PM					N/A
6/19/2019	#SBUX	3:30:00 PM					N/A
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6/19/2019	#SNE	11:30:00 AM					N/A
6/19/2019	#SNE	1:30:00 PM					N/A
6/19/2019	#SNE	3:30:00 PM					N/A

6/19/2019	#SPY	9:30:00 AM					N/A
6/19/2019	#SPY	11:30:00 AM					N/A
6/19/2019	#SPY	1:30:00 PM					N/A
6/19/2019	#SPY	3:30:00 PM					N/A
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6/19/2019	#T	3:30:00 PM					N/A
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6/19/2019	#TSCO	1:30:00 PM					N/A
6/19/2019	#TSCO	3:30:00 PM					N/A
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6/19/2019	#UBS	1:30:00 PM					N/A
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6/19/2019	#V	1:30:00 PM					N/A
6/19/2019	#V	3:30:00 PM					N/A
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6/19/2019	#VOD	1:30:00 PM					N/A
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6/19/2019	#WDC	1:30:00 PM					N/A
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6/19/2019	#WFC	11:30:00 AM					N/A
6/19/2019	#WFC	1:30:00 PM					N/A
6/19/2019	#WFC	3:30:00 PM					N/A

6/19/2019	#WMT	9:30:00 AM					N/A
6/19/2019	#WMT	11:30:00 AM					N/A
6/19/2019	#WMT	1:30:00 PM					N/A
6/19/2019	#WMT	3:30:00 PM					N/A
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6/19/2019	#XOM	3:30:00 PM					N/A
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6/19/2019	#YHOO	11:30:00 AM					N/A
6/19/2019	#YHOO	1:30:00 PM					N/A
6/19/2019	#YHOO	3:30:00 PM					N/A
6/19/2019	#ZNGA	9:30:00 AM					N/A
6/19/2019	#ZNGA	11:30:00 AM					N/A
6/19/2019	#ZNGA	1:30:00 PM					N/A
6/19/2019	#ZNGA	3:30:00 PM					N/A
6/19/2019	AUDCAD	9:30:00 AM	0.9195	0.92018			N/A
6/19/2019	AUDCAD	11:30:00 AM	0.91869	0.91938			N/A
6/19/2019	AUDCAD	1:30:00 PM	0.9191	0.91981			N/A
6/19/2019	AUDCAD	3:30:00 PM	0.91863	0.91716			N/A
6/19/2019	AUDCAD.fx	9:30:00 AM	0.91983	0.91983			N/A
6/19/2019	AUDCAD.fx	11:30:00 AM	0.91901	0.91904			N/A
6/19/2019	AUDCAD.fx	1:30:00 PM	0.91944	0.91947			N/A
6/19/2019	AUDCAD.fx	3:30:00 PM	0.91894	0.91681			N/A
6/19/2019	AUDCHF	9:30:00 AM	0.68757	0.68817			N/A
6/19/2019	AUDCHF	11:30:00 AM	0.68554	0.68617			N/A
6/19/2019	AUDCHF	1:30:00 PM	0.68558	0.68629			N/A
6/19/2019	AUDCHF	3:30:00 PM	0.68503	0.68555			N/A
6/19/2019	AUDCHF.fx	9:30:00 AM	0.68791	0.68782			N/A
6/19/2019	AUDCHF.fx	11:30:00 AM	0.68588	0.68584			N/A
6/19/2019	AUDCHF.fx	1:30:00 PM	0.68592	0.68594			N/A
6/19/2019	AUDCHF.fx	3:30:00 PM	0.68536	0.68522			N/A
6/19/2019	AUDCZK	9:30:00 AM	15.712	15.729			N/A
6/19/2019	AUDCZK	11:30:00 AM	15.694	15.712			N/A

6/19/2019	AUDCZK	1:30:00 PM	15.703	15.719			N/A
6/19/2019	AUDCZK	3:30:00 PM	15.702	15.714			N/A
6/19/2019	AUDDKK	9:30:00 AM	4.5859	4.5909			N/A
6/19/2019	AUDDKK	11:30:00 AM	4.576	4.581			N/A
6/19/2019	AUDDKK	1:30:00 PM	4.579	4.5838			N/A
6/19/2019	AUDDKK	3:30:00 PM	4.5768	4.5804			N/A
6/19/2019	AUDHKD	9:30:00 AM	5.3797	5.3834			N/A
6/19/2019	AUDHKD	11:30:00 AM	5.3737	5.3769			N/A
6/19/2019	AUDHKD	1:30:00 PM	5.3751	5.3786			N/A
6/19/2019	AUDHKD	3:30:00 PM	5.3716	5.3746			N/A
6/19/2019	AUDHUF	9:30:00 AM	198.32	198.56			N/A
6/19/2019	AUDHUF	11:30:00 AM	198.1	198.29			N/A
6/19/2019	AUDHUF	1:30:00 PM	198.46	198.69			N/A
6/19/2019	AUDHUF	3:30:00 PM	198.41	198.54			N/A
6/19/2019	AUDJPY	9:30:00 AM	74.446	74.511			N/A
6/19/2019	AUDJPY	11:30:00 AM	74.42	74.474			N/A
6/19/2019	AUDJPY	1:30:00 PM	74.478	74.547			N/A
6/19/2019	AUDJPY	3:30:00 PM	74.481	74.519			N/A
6/19/2019	AUDJPY.fx	9:30:00 AM	74.48	74.475			N/A
6/19/2019	AUDJPY.fx	11:30:00 AM	74.452	74.439			N/A
6/19/2019	AUDJPY.fx	1:30:00 PM	74.512	74.512			N/A
6/19/2019	AUDJPY.fx	3:30:00 PM	74.513	74.485			N/A
6/19/2019	AUDMXN	9:30:00 AM	13.1563	13.1646			N/A
6/19/2019	AUDMXN	11:30:00 AM	13.1303	13.1388			N/A
6/19/2019	AUDMXN	1:30:00 PM	13.1613	13.1657			N/A
6/19/2019	AUDMXN	3:30:00 PM	13.1524	13.1576			N/A
6/19/2019	AUDNOK	9:30:00 AM	6.0133	6.0183			N/A
6/19/2019	AUDNOK	11:30:00 AM	6.0033	6.0074			N/A
6/19/2019	AUDNOK	1:30:00 PM	6.0028	6.0073			N/A
6/19/2019	AUDNOK	3:30:00 PM	5.9998	6.0016			N/A
6/19/2019	AUDNOK.fx	9:30:00 AM	6.0147	6.0166			N/A
6/19/2019	AUDNOK.fx	11:30:00 AM	6.0048	6.0057			N/A
6/19/2019	AUDNOK.fx	1:30:00 PM	6.0044	6.0055			N/A
6/19/2019	AUDNOK.fx	3:30:00 PM	6.0012	5.9998			N/A

6/19/2019	AUDNZD	9:30:00 AM	1.05264	1.05351			N/A
6/19/2019	AUDNZD	11:30:00 AM	1.05306	1.0539			N/A
6/19/2019	AUDNZD	1:30:00 PM	1.05285	1.05374			N/A
6/19/2019	AUDNZD	3:30:00 PM	1.05279	1.05346			N/A
6/19/2019	AUDNZD.fx	9:30:00 AM	1.05308	1.05306			N/A
6/19/2019	AUDNZD.fx	11:30:00 AM	1.05349	1.05346			N/A
6/19/2019	AUDNZD.fx	1:30:00 PM	1.05329	1.05328			N/A
6/19/2019	AUDNZD.fx	3:30:00 PM	1.05322	1.05301			N/A
6/19/2019	AUDPLN	9:30:00 AM	2.6172	2.6204			N/A
6/19/2019	AUDPLN	11:30:00 AM	2.6127	2.6157			N/A
6/19/2019	AUDPLN	1:30:00 PM	2.6168	2.6198			N/A
6/19/2019	AUDPLN	3:30:00 PM	2.6153	2.6177			N/A
6/19/2019	AUDSEK	9:30:00 AM	6.5601	6.5631			N/A
6/19/2019	AUDSEK	11:30:00 AM	6.5563	6.5595			N/A
6/19/2019	AUDSEK	1:30:00 PM	6.5555	6.5578			N/A
6/19/2019	AUDSEK	3:30:00 PM	6.5571	6.5565			N/A
6/19/2019	AUDSEK.fx	9:30:00 AM	6.5553	6.5674			N/A
6/19/2019	AUDSEK.fx	11:30:00 AM	6.5515	6.5641			N/A
6/19/2019	AUDSEK.fx	1:30:00 PM	6.5508	6.5622			N/A
6/19/2019	AUDSEK.fx	3:30:00 PM	6.5528	6.5609			N/A
6/19/2019	AUDSGD	9:30:00 AM	0.9405	0.9407			N/A
6/19/2019	AUDSGD	11:30:00 AM	0.9395	0.9397			N/A
6/19/2019	AUDSGD	1:30:00 PM	0.9397	0.9399			N/A
6/19/2019	AUDSGD	3:30:00 PM	0.9396	0.9395			N/A
6/19/2019	AUDSGD.fx	9:30:00 AM	0.94059	0.94066			N/A
6/19/2019	AUDSGD.fx	11:30:00 AM	0.93959	0.93964			N/A
6/19/2019	AUDSGD.fx	1:30:00 PM	0.93976	0.93988			N/A
6/19/2019	AUDSGD.fx	3:30:00 PM	0.93964	0.93944			N/A
6/19/2019	AUDUSD	9:30:00 AM	0.68771	0.68783			N/A
6/19/2019	AUDUSD	11:30:00 AM	0.68694	0.68698			N/A
6/19/2019	AUDUSD	1:30:00 PM	0.6873	0.68742			N/A
6/19/2019	AUDUSD	3:30:00 PM	0.68707	0.68695			N/A
6/19/2019	AUDUSD.fx	9:30:00 AM	0.68776	0.68777			N/A
6/19/2019	AUDUSD.fx	11:30:00 AM	0.68697	0.68694			N/A

6/19/2019	AUDUSD.fx	1:30:00 PM	0.68735	0.68736			N/A
6/19/2019	AUDUSD.fx	3:30:00 PM	0.68711	0.6869			N/A
6/19/2019	AUDZAR	9:30:00 AM	9.9994	10.0093			N/A
6/19/2019	AUDZAR	11:30:00 AM	9.9629	9.971			N/A
6/19/2019	AUDZAR	1:30:00 PM	9.9879	9.9977			N/A
6/19/2019	AUDZAR	3:30:00 PM	9.9684	9.9799			N/A
6/19/2019	AUS200.i	9:30:00 AM	6650.6	6654.6			N/A
6/19/2019	AUS200.i	11:30:00 AM	6654.11	6656.01			N/A
6/19/2019	AUS200.i	1:30:00 PM	6663.11	6666.71			N/A
6/19/2019	AUS200.i	3:30:00 PM	6655.11	6658.31			N/A
6/19/2019	BCHUSD	9:30:00 AM	426.35	428.13			N/A
6/19/2019	BCHUSD	11:30:00 AM	428.73	430.46			N/A
6/19/2019	BCHUSD	1:30:00 PM	427.45	428.81			N/A
6/19/2019	BCHUSD	3:30:00 PM	425.89	427.17			N/A
6/19/2019	CADCHF	9:30:00 AM	0.74753	0.74808			N/A
6/19/2019	CADCHF	11:30:00 AM	0.74597	0.74657			N/A
6/19/2019	CADCHF	1:30:00 PM	0.74567	0.74639			N/A
6/19/2019	CADCHF	3:30:00 PM	0.74708	0.74714			N/A
6/19/2019	CADCHF.fx	9:30:00 AM	0.74786	0.74771			N/A
6/19/2019	CADCHF.fx	11:30:00 AM	0.7463	0.74623			N/A
6/19/2019	CADCHF.fx	1:30:00 PM	0.74601	0.74601			N/A
6/19/2019	CADCHF.fx	3:30:00 PM	0.7474	0.74682			N/A
6/19/2019	CADCZK	9:30:00 AM	17.085	17.102			N/A
6/19/2019	CADCZK	11:30:00 AM	17.082	17.099			N/A
6/19/2019	CADCZK	1:30:00 PM	17.083	17.099			N/A
6/19/2019	CADCZK	3:30:00 PM	17.129	17.111			N/A
6/19/2019	CADDDKK	9:30:00 AM	4.987	4.991			N/A
6/19/2019	CADDDKK	11:30:00 AM	4.98	4.984			N/A
6/19/2019	CADDDKK	1:30:00 PM	4.982	4.985			N/A
6/19/2019	CADDDKK	3:30:00 PM	4.992	4.985			N/A
6/19/2019	CADHKD	9:30:00 AM	5.8492	5.8531			N/A
6/19/2019	CADHKD	11:30:00 AM	5.8486	5.8518			N/A
6/19/2019	CADHKD	1:30:00 PM	5.8474	5.8506			N/A
6/19/2019	CADHKD	3:30:00 PM	5.8598	5.8495			N/A

6/19/2019	CADHUF	9:30:00 AM	215.69	215.85			N/A
6/19/2019	CADHUF	11:30:00 AM	215.69	215.75			N/A
6/19/2019	CADHUF	1:30:00 PM	215.92	216.08			N/A
6/19/2019	CADHUF	3:30:00 PM	216.51	216.12			N/A
6/19/2019	CADJPY	9:30:00 AM	80.935	81.001			N/A
6/19/2019	CADJPY	11:30:00 AM	80.979	81.031			N/A
6/19/2019	CADJPY	1:30:00 PM	81.007	81.072			N/A
6/19/2019	CADJPY	3:30:00 PM	81.22	81.225			N/A
6/19/2019	CADJPY.fx	9:30:00 AM	80.969	80.966			N/A
6/19/2019	CADJPY.fx	11:30:00 AM	81.011	80.999			N/A
6/19/2019	CADJPY.fx	1:30:00 PM	81.041	81.037			N/A
6/19/2019	CADJPY.fx	3:30:00 PM	81.252	81.048			N/A
6/19/2019	CADMXN	9:30:00 AM	14.3051	14.3138			N/A
6/19/2019	CADMXN	11:30:00 AM	14.2894	14.3006			N/A
6/19/2019	CADMXN	1:30:00 PM	14.3165	14.3219			N/A
6/19/2019	CADMXN	3:30:00 PM	14.3472	14.3249			N/A
6/19/2019	CADNOK	9:30:00 AM	6.5367	6.5416			N/A
6/19/2019	CADNOK	11:30:00 AM	6.5297	6.5338			N/A
6/19/2019	CADNOK	1:30:00 PM	6.5282	6.532			N/A
6/19/2019	CADNOK	3:30:00 PM	6.5398	6.5294			N/A
6/19/2019	CADPLN	9:30:00 AM	2.8456	2.8475			N/A
6/19/2019	CADPLN	11:30:00 AM	2.8426	2.8437			N/A
6/19/2019	CADPLN	1:30:00 PM	2.8467	2.848			N/A
6/19/2019	CADPLN	3:30:00 PM	2.8519	2.8467			N/A
6/19/2019	CADSEK	9:30:00 AM	7.1308	7.1334			N/A
6/19/2019	CADSEK	11:30:00 AM	7.1319	7.1353			N/A
6/19/2019	CADSEK	1:30:00 PM	7.128	7.1312			N/A
6/19/2019	CADSEK	3:30:00 PM	7.1466	7.1369			N/A
6/19/2019	CADSGD	9:30:00 AM	1.0218	1.022			N/A
6/19/2019	CADSGD	11:30:00 AM	1.0218	1.0221			N/A
6/19/2019	CADSGD	1:30:00 PM	1.0214	1.0217			N/A
6/19/2019	CADSGD	3:30:00 PM	1.0233	1.0219			N/A
6/19/2019	CADZAR	9:30:00 AM	10.8734	10.8839			N/A
6/19/2019	CADZAR	11:30:00 AM	10.8425	10.8527			N/A

6/19/2019	CADZAR	1:30:00 PM	10.8648	10.8756			N/A
6/19/2019	CADZAR	3:30:00 PM	10.875	10.864			N/A
6/19/2019	CHFCZK	9:30:00 AM	22.852	22.867			N/A
6/19/2019	CHFCZK	11:30:00 AM	22.895	22.91			N/A
6/19/2019	CHFCZK	1:30:00 PM	22.904	22.918			N/A
6/19/2019	CHFCZK	3:30:00 PM	22.922	22.938			N/A
6/19/2019	CHFDKK	9:30:00 AM	6.67	6.671			N/A
6/19/2019	CHFDKK	11:30:00 AM	6.674	6.677			N/A
6/19/2019	CHFDKK	1:30:00 PM	6.678	6.681			N/A
6/19/2019	CHFDKK	3:30:00 PM	6.68	6.682			N/A
6/19/2019	CHFDKK.fx	9:30:00 AM	6.668	6.6727			N/A
6/19/2019	CHFDKK.fx	11:30:00 AM	6.6726	6.6778			N/A
6/19/2019	CHFDKK.fx	1:30:00 PM	6.6764	6.6822			N/A
6/19/2019	CHFDKK.fx	3:30:00 PM	6.6785	6.6843			N/A
6/19/2019	CHFHKD	9:30:00 AM	7.8242	7.8259			N/A
6/19/2019	CHFHKD	11:30:00 AM	7.8378	7.8413			N/A
6/19/2019	CHFHKD	1:30:00 PM	7.8388	7.8424			N/A
6/19/2019	CHFHKD	3:30:00 PM	7.841	7.8445			N/A
6/19/2019	CHFHUF	9:30:00 AM	288.39	288.7			N/A
6/19/2019	CHFHUF	11:30:00 AM	288.92	289.2			N/A
6/19/2019	CHFHUF	1:30:00 PM	289.37	289.73			N/A
6/19/2019	CHFHUF	3:30:00 PM	289.54	289.86			N/A
6/19/2019	CHFJPY	9:30:00 AM	108.252	108.299			N/A
6/19/2019	CHFJPY	11:30:00 AM	108.525	108.577			N/A
6/19/2019	CHFJPY	1:30:00 PM	108.594	108.666			N/A
6/19/2019	CHFJPY	3:30:00 PM	108.686	108.751			N/A
6/19/2019	CHFJPY.fx	9:30:00 AM	108.286	108.265			N/A
6/19/2019	CHFJPY.fx	11:30:00 AM	108.557	108.544			N/A
6/19/2019	CHFJPY.fx	1:30:00 PM	108.627	108.631			N/A
6/19/2019	CHFJPY.fx	3:30:00 PM	108.717	108.717			N/A
6/19/2019	CHFMXN	9:30:00 AM	19.1284	19.1422			N/A
6/19/2019	CHFMXN	11:30:00 AM	19.1487	19.1637			N/A
6/19/2019	CHFMXN	1:30:00 PM	19.1921	19.1985			N/A
6/19/2019	CHFMXN	3:30:00 PM	19.1965	19.2115			N/A

6/19/2019	CHFNOK	9:30:00 AM	8.7424	8.7486			N/A
6/19/2019	CHFNOK	11:30:00 AM	8.7531	8.758			N/A
6/19/2019	CHFNOK	1:30:00 PM	8.7511	8.758			N/A
6/19/2019	CHFNOK	3:30:00 PM	8.7536	8.7591			N/A
6/19/2019	CHFNOK.fx	9:30:00 AM	8.74585	8.74502			N/A
6/19/2019	CHFNOK.fx	11:30:00 AM	8.75664	8.75421			N/A
6/19/2019	CHFNOK.fx	1:30:00 PM	8.7549	8.75438			N/A
6/19/2019	CHFNOK.fx	3:30:00 PM	8.75724	8.75567			N/A
6/19/2019	CHFPLN	9:30:00 AM	3.8068	3.8089			N/A
6/19/2019	CHFPLN	11:30:00 AM	3.8111	3.8135			N/A
6/19/2019	CHFPLN	1:30:00 PM	3.8167	3.8191			N/A
6/19/2019	CHFPLN	3:30:00 PM	3.8173	3.8204			N/A
6/19/2019	CHFPLN.fx	9:30:00 AM	3.80434	3.81125			N/A
6/19/2019	CHFPLN.fx	11:30:00 AM	3.80864	3.81593			N/A
6/19/2019	CHFPLN.fx	1:30:00 PM	3.81426	3.82143			N/A
6/19/2019	CHFPLN.fx	3:30:00 PM	3.81496	3.82293			N/A
6/19/2019	CHFSEK	9:30:00 AM	9.5351	9.5391			N/A
6/19/2019	CHFSEK	11:30:00 AM	9.5574	9.5613			N/A
6/19/2019	CHFSEK	1:30:00 PM	9.5553	9.5592			N/A
6/19/2019	CHFSEK	3:30:00 PM	9.5657	9.5666			N/A
6/19/2019	CHFSGD	9:30:00 AM	1.3675	1.3675			N/A
6/19/2019	CHFSGD	11:30:00 AM	1.3699	1.3702			N/A
6/19/2019	CHFSGD	1:30:00 PM	1.37	1.3704			N/A
6/19/2019	CHFSGD	3:30:00 PM	1.3709	1.3712			N/A
6/19/2019	CHFSGD.fx	9:30:00 AM	1.36767	1.36727			N/A
6/19/2019	CHFSGD.fx	11:30:00 AM	1.37003	1.36998			N/A
6/19/2019	CHFSGD.fx	1:30:00 PM	1.37013	1.37017			N/A
6/19/2019	CHFSGD.fx	3:30:00 PM	1.37102	1.37105			N/A
6/19/2019	CHFZAR	9:30:00 AM	14.5434	14.549			N/A
6/19/2019	CHFZAR	11:30:00 AM	14.5334	14.5397			N/A
6/19/2019	CHFZAR	1:30:00 PM	14.5688	14.5746			N/A
6/19/2019	CHFZAR	3:30:00 PM	14.5515	14.5658			N/A
6/19/2019	CZKJPY	9:30:00 AM					N/A
6/19/2019	CZKJPY	11:30:00 AM					N/A

6/19/2019	CZKJPY	1:30:00 PM	4.741	4.744			N/A
6/19/2019	CZKJPY	3:30:00 PM					N/A
6/19/2019	DAX30.i	9:30:00 AM	12348.44	12342.69			N/A
6/19/2019	DAX30.i	11:30:00 AM	12316.94	12312.19			N/A
6/19/2019	DAX30.i	1:30:00 PM	12336.69	12335.44			N/A
6/19/2019	DAX30.i	3:30:00 PM	12306.19	12302.69			N/A
6/19/2019	DJ30.i	9:30:00 AM					N/A
6/19/2019	DJ30.i	11:30:00 AM					N/A
6/19/2019	DJ30.i	1:30:00 PM					N/A
6/19/2019	DJ30.i	3:30:00 PM					N/A
6/19/2019	DKKJPY	9:30:00 AM					N/A
6/19/2019	DKKJPY	11:30:00 AM	16.26	16.28			N/A
6/19/2019	DKKJPY	1:30:00 PM	16.26	16.28			N/A
6/19/2019	DKKJPY	3:30:00 PM	16.27	16.29			N/A
6/19/2019	EURAUD	9:30:00 AM	1.62668	1.62713			N/A
6/19/2019	EURAUD	11:30:00 AM	1.63017	1.63065			N/A
6/19/2019	EURAUD	1:30:00 PM	1.62896	1.62947			N/A
6/19/2019	EURAUD	3:30:00 PM	1.63033	1.6302			N/A
6/19/2019	EURAUD.fx	9:30:00 AM	1.6269	1.62691			N/A
6/19/2019	EURAUD.fx	11:30:00 AM	1.63036	1.63044			N/A
6/19/2019	EURAUD.fx	1:30:00 PM	1.62917	1.62924			N/A
6/19/2019	EURAUD.fx	3:30:00 PM	1.63054	1.63001			N/A
6/19/2019	EURCAD	9:30:00 AM	1.49666	1.49746			N/A
6/19/2019	EURCAD	11:30:00 AM	1.49852	1.49937			N/A
6/19/2019	EURCAD	1:30:00 PM	1.49809	1.49896			N/A
6/19/2019	EURCAD	3:30:00 PM	1.49731	1.49571			N/A
6/19/2019	EURCAD.fx	9:30:00 AM	1.49708	1.49705			N/A
6/19/2019	EURCAD.fx	11:30:00 AM	1.49894	1.49896			N/A
6/19/2019	EURCAD.fx	1:30:00 PM	1.49852	1.49851			N/A
6/19/2019	EURCAD.fx	3:30:00 PM	1.49896	1.49525			N/A
6/19/2019	EURCHF	9:30:00 AM	1.11958	1.11945			N/A
6/19/2019	EURCHF	11:30:00 AM	1.11867	1.11863			N/A
6/19/2019	EURCHF	1:30:00 PM	1.11793	1.11797			N/A
6/19/2019	EURCHF	3:30:00 PM	1.11756	1.11765			N/A

6/19/2019	EURCHF.fx	9:30:00 AM	1.11965	1.11937			N/A
6/19/2019	EURCHF.fx	11:30:00 AM	1.11871	1.11857			N/A
6/19/2019	EURCHF.fx	1:30:00 PM	1.11799	1.11792			N/A
6/19/2019	EURCHF.fx	3:30:00 PM	1.1176	1.11759			N/A
6/19/2019	EURCZK	9:30:00 AM	25.568	25.606			N/A
6/19/2019	EURCZK	11:30:00 AM	25.596	25.636			N/A
6/19/2019	EURCZK	1:30:00 PM	25.59	25.628			N/A
6/19/2019	EURCZK	3:30:00 PM	25.603	25.641			N/A
6/19/2019	EURDKK	9:30:00 AM	7.4657	7.467			N/A
6/19/2019	EURDKK	11:30:00 AM	7.4654	7.4667			N/A
6/19/2019	EURDKK	1:30:00 PM	7.4653	7.4665			N/A
6/19/2019	EURDKK	3:30:00 PM	7.4661	7.4674			N/A
6/19/2019	EURGBP	9:30:00 AM	0.89125	0.89134			N/A
6/19/2019	EURGBP	11:30:00 AM	0.89143	0.89084			N/A
6/19/2019	EURGBP	1:30:00 PM	0.89077	0.89084			N/A
6/19/2019	EURGBP	3:30:00 PM	0.89028	0.89034			N/A
6/19/2019	EURGBP.fx	9:30:00 AM	0.89129	0.89129			N/A
6/19/2019	EURGBP.fx	11:30:00 AM	0.89142	0.8908			N/A
6/19/2019	EURGBP.fx	1:30:00 PM	0.89082	0.8908			N/A
6/19/2019	EURGBP.fx	3:30:00 PM	0.89031	0.89029			N/A
6/19/2019	EURHKD	9:30:00 AM	8.7584	8.7632			N/A
6/19/2019	EURHKD	11:30:00 AM	8.7683	8.7718			N/A
6/19/2019	EURHKD	1:30:00 PM	8.7634	8.768			N/A
6/19/2019	EURHKD	3:30:00 PM	8.764	8.7693			N/A
6/19/2019	EURHKD.fx	9:30:00 AM	8.76117	8.76039			N/A
6/19/2019	EURHKD.fx	11:30:00 AM	8.77112	8.76912			N/A
6/19/2019	EURHKD.fx	1:30:00 PM	8.76619	8.76524			N/A
6/19/2019	EURHKD.fx	3:30:00 PM	8.76676	8.76574			N/A
6/19/2019	EURHUF	9:30:00 AM	322.77	323.46			N/A
6/19/2019	EURHUF	11:30:00 AM	323.28	323.92			N/A
6/19/2019	EURHUF	1:30:00 PM	323.41	324.14			N/A
6/19/2019	EURHUF	3:30:00 PM	323.63	324.36			N/A
6/19/2019	EURHUF.fx	9:30:00 AM	323.059	323.238			N/A
6/19/2019	EURHUF.fx	11:30:00 AM	323.585	323.629			N/A

6/19/2019	EURHUF.fx	1:30:00 PM	323.683	323.858			N/A
6/19/2019	EURHUF.fx	3:30:00 PM	323.918	324.071			N/A
6/19/2019	EURJPY	9:30:00 AM	121.213	121.214			N/A
6/19/2019	EURJPY	11:30:00 AM	121.433	121.411			N/A
6/19/2019	EURJPY	1:30:00 PM	121.442	121.442			N/A
6/19/2019	EURJPY	3:30:00 PM	121.496	121.494			N/A
6/19/2019	EURJPY.fx	9:30:00 AM	121.217	121.21			N/A
6/19/2019	EURJPY.fx	11:30:00 AM	121.435	121.408			N/A
6/19/2019	EURJPY.fx	1:30:00 PM	121.445	121.438			N/A
6/19/2019	EURJPY.fx	3:30:00 PM	121.497	121.493			N/A
6/19/2019	EURMXN	9:30:00 AM	21.4181	21.432			N/A
6/19/2019	EURMXN	11:30:00 AM	21.4247	21.4418			N/A
6/19/2019	EURMXN	1:30:00 PM	21.4565	21.4659			N/A
6/19/2019	EURMXN	3:30:00 PM	21.4578	21.4749			N/A
6/19/2019	EURMXN.fx	9:30:00 AM	21.4267	21.4239			N/A
6/19/2019	EURMXN.fx	11:30:00 AM	21.4326	21.4334			N/A
6/19/2019	EURMXN.fx	1:30:00 PM	21.4649	21.4573			N/A
6/19/2019	EURMXN.fx	3:30:00 PM	21.4667	21.4661			N/A
6/19/2019	EURNOK	9:30:00 AM	9.7848	9.7968			N/A
6/19/2019	EURNOK	11:30:00 AM	9.7893	9.7998			N/A
6/19/2019	EURNOK	1:30:00 PM	9.781	9.7926			N/A
6/19/2019	EURNOK	3:30:00 PM	9.7808	9.7912			N/A
6/19/2019	EURNOK.fx	9:30:00 AM	9.7901	9.79138			N/A
6/19/2019	EURNOK.fx	11:30:00 AM	9.7949	9.79419			N/A
6/19/2019	EURNOK.fx	1:30:00 PM	9.78671	9.78684			N/A
6/19/2019	EURNOK.fx	3:30:00 PM	9.78636	9.78569			N/A
6/19/2019	EURNZD	9:30:00 AM	1.71351	1.71423			N/A
6/19/2019	EURNZD	11:30:00 AM	1.71786	1.71858			N/A
6/19/2019	EURNZD	1:30:00 PM	1.71631	1.71706			N/A
6/19/2019	EURNZD	3:30:00 PM	1.71726	1.71781			N/A
6/19/2019	EURNZD.fx	9:30:00 AM	1.71395	1.71379			N/A
6/19/2019	EURNZD.fx	11:30:00 AM	1.71825	1.71817			N/A
6/19/2019	EURNZD.fx	1:30:00 PM	1.71672	1.71664			N/A
6/19/2019	EURNZD.fx	3:30:00 PM	1.71767	1.71739			N/A

6/19/2019	EURPLN	9:30:00 AM	4.2612	4.2645			N/A
6/19/2019	EURPLN	11:30:00 AM	4.2628	4.2657			N/A
6/19/2019	EURPLN	1:30:00 PM	4.2666	4.2693			N/A
6/19/2019	EURPLN	3:30:00 PM	4.2663	4.2696			N/A
6/19/2019	EURPLN.fx	9:30:00 AM	4.26057	4.26502			N/A
6/19/2019	EURPLN.fx	11:30:00 AM	4.26222	4.26628			N/A
6/19/2019	EURPLN.fx	1:30:00 PM	4.26603	4.26974			N/A
6/19/2019	EURPLN.fx	3:30:00 PM	4.26562	4.27013			N/A
6/19/2019	EURRUB	9:30:00 AM					N/A
6/19/2019	EURRUB	11:30:00 AM	71.302	71.737			N/A
6/19/2019	EURRUB	1:30:00 PM	71.363	71.805			N/A
6/19/2019	EURRUB	3:30:00 PM	71.374	71.816			N/A
6/19/2019	EURSEK	9:30:00 AM	10.6786	10.6821			N/A
6/19/2019	EURSEK	11:30:00 AM	10.695	10.6997			N/A
6/19/2019	EURSEK	1:30:00 PM	10.6859	10.6893			N/A
6/19/2019	EURSEK	3:30:00 PM	10.6953	10.6952			N/A
6/19/2019	EURSEK.fx	9:30:00 AM	10.68008	10.68043			N/A
6/19/2019	EURSEK.fx	11:30:00 AM	10.69665	10.69805			N/A
6/19/2019	EURSEK.fx	1:30:00 PM	10.68768	10.68742			N/A
6/19/2019	EURSEK.fx	3:30:00 PM	10.69676	10.69349			N/A
6/19/2019	EURSGD	9:30:00 AM	1.5305	1.5313			N/A
6/19/2019	EURSGD	11:30:00 AM	1.5322	1.5329			N/A
6/19/2019	EURSGD	1:30:00 PM	1.5314	1.5322			N/A
6/19/2019	EURSGD	3:30:00 PM	1.5319	1.5327			N/A
6/19/2019	EURSGD.fx	9:30:00 AM	1.53092	1.5309			N/A
6/19/2019	EURSGD.fx	11:30:00 AM	1.53259	1.53248			N/A
6/19/2019	EURSGD.fx	1:30:00 PM	1.53173	1.53177			N/A
6/19/2019	EURSGD.fx	3:30:00 PM	1.53226	1.53232			N/A
6/19/2019	EURUSD	9:30:00 AM	1.11919	1.11924			N/A
6/19/2019	EURUSD	11:30:00 AM	1.12031	1.12027			N/A
6/19/2019	EURUSD	1:30:00 PM	1.12011	1.12014			N/A
6/19/2019	EURUSD	3:30:00 PM	1.12021	1.12033			N/A
6/19/2019	EURUSD.fx	9:30:00 AM	1.11939	1.11933			N/A
6/19/2019	EURUSD.fx	11:30:00 AM	1.1205	1.12037			N/A

6/19/2019	EURUSD.fx	1:30:00 PM	1.12031	1.12023			N/A
6/19/2019	EURUSD.fx	3:30:00 PM	1.1204	1.12043			N/A
6/19/2019	EURZAR	9:30:00 AM	16.2864	16.2941			N/A
6/19/2019	EURZAR	11:30:00 AM	16.2593	16.2751			N/A
6/19/2019	EURZAR	1:30:00 PM	16.2882	16.2997			N/A
6/19/2019	EURZAR	3:30:00 PM	16.2689	16.2896			N/A
6/19/2019	EURZAR.fx	9:30:00 AM	16.28508	16.29502			N/A
6/19/2019	EURZAR.fx	11:30:00 AM	16.25952	16.27534			N/A
6/19/2019	EURZAR.fx	1:30:00 PM	16.28784	16.30065			N/A
6/19/2019	EURZAR.fx	3:30:00 PM	16.26817	16.29032			N/A
6/19/2019	GBPAUD	9:30:00 AM	1.82564	1.82641			N/A
6/19/2019	GBPAUD	11:30:00 AM	1.83065	1.82993			N/A
6/19/2019	GBPAUD	1:30:00 PM	1.82928	1.82996			N/A
6/19/2019	GBPAUD	3:30:00 PM	1.83173	1.83192			N/A
6/19/2019	GBPAUD.fx	9:30:00 AM	1.82604	1.82601			N/A
6/19/2019	GBPAUD.fx	11:30:00 AM	1.83094	1.82971			N/A
6/19/2019	GBPAUD.fx	1:30:00 PM	1.82966	1.82956			N/A
6/19/2019	GBPAUD.fx	3:30:00 PM	1.83209	1.83155			N/A
6/19/2019	GBPCAD	9:30:00 AM	1.67925	1.68006			N/A
6/19/2019	GBPCAD	11:30:00 AM	1.6825	1.68184			N/A
6/19/2019	GBPCAD	1:30:00 PM	1.68182	1.6826			N/A
6/19/2019	GBPCAD	3:30:00 PM	1.68056	1.67977			N/A
6/19/2019	GBPCAD.fx	9:30:00 AM	1.67964	1.67966			N/A
6/19/2019	GBPCAD.fx	11:30:00 AM	1.68279	1.68163			N/A
6/19/2019	GBPCAD.fx	1:30:00 PM	1.68222	1.68221			N/A
6/19/2019	GBPCAD.fx	3:30:00 PM	1.68372	1.67938			N/A
6/19/2019	GBPCHF	9:30:00 AM	1.25602	1.25611			N/A
6/19/2019	GBPCHF	11:30:00 AM	1.25552	1.25499			N/A
6/19/2019	GBPCHF	1:30:00 PM	1.25475	1.25515			N/A
6/19/2019	GBPCHF	3:30:00 PM	1.25509	1.25553			N/A
6/19/2019	GBPCHF.fx	9:30:00 AM	1.25622	1.25592			N/A
6/19/2019	GBPCHF.fx	11:30:00 AM	1.25571	1.25487			N/A
6/19/2019	GBPCHF.fx	1:30:00 PM	1.25494	1.25495			N/A
6/19/2019	GBPCHF.fx	3:30:00 PM	1.25528	1.25533			N/A

6/19/2019	GBPCZK	9:30:00 AM	28.696	28.718			N/A
6/19/2019	GBPCZK	11:30:00 AM	28.745	28.741			N/A
6/19/2019	GBPCZK	1:30:00 PM	28.739	28.757			N/A
6/19/2019	GBPCZK	3:30:00 PM	28.767	28.79			N/A
6/19/2019	GBPDKK	9:30:00 AM	8.373	8.384			N/A
6/19/2019	GBPDKK	11:30:00 AM	8.378	8.382			N/A
6/19/2019	GBPDKK	1:30:00 PM	8.378	8.389			N/A
6/19/2019	GBPDKK	3:30:00 PM	8.382	8.393			N/A
6/19/2019	GBPDKK.fx	9:30:00 AM	8.3717	8.3848			N/A
6/19/2019	GBPDKK.fx	11:30:00 AM	8.376	8.3836			N/A
6/19/2019	GBPDKK.fx	1:30:00 PM	8.3762	8.3888			N/A
6/19/2019	GBPDKK.fx	3:30:00 PM	8.3808	8.3933			N/A
6/19/2019	GBPHKD	9:30:00 AM	9.824	9.8299			N/A
6/19/2019	GBPHKD	11:30:00 AM	9.8399	9.8364			N/A
6/19/2019	GBPHKD	1:30:00 PM	9.8355	9.8398			N/A
6/19/2019	GBPHKD	3:30:00 PM	9.8405	9.8458			N/A
6/19/2019	GBPHUF	9:30:00 AM	362.13	362.61			N/A
6/19/2019	GBPHUF	11:30:00 AM	362.76	362.78			N/A
6/19/2019	GBPHUF	1:30:00 PM	363.06	363.53			N/A
6/19/2019	GBPHUF	3:30:00 PM	363.44	363.8			N/A
6/19/2019	GBPJPY	9:30:00 AM	135.981	136.015			N/A
6/19/2019	GBPJPY	11:30:00 AM	136.298	136.204			N/A
6/19/2019	GBPJPY	1:30:00 PM	136.307	136.342			N/A
6/19/2019	GBPJPY	3:30:00 PM	136.45	136.488			N/A
6/19/2019	GBPJPY.fx	9:30:00 AM	136	135.994			N/A
6/19/2019	GBPJPY.fx	11:30:00 AM	136.313	136.199			N/A
6/19/2019	GBPJPY.fx	1:30:00 PM	136.327	136.322			N/A
6/19/2019	GBPJPY.fx	3:30:00 PM	136.469	136.47			N/A
6/19/2019	GBPMXN	9:30:00 AM	24.0278	24.0366			N/A
6/19/2019	GBPMXN	11:30:00 AM	24.044	24.0369			N/A
6/19/2019	GBPMXN	1:30:00 PM	24.0841	24.0861			N/A
6/19/2019	GBPMXN	3:30:00 PM	24.0956	24.1072			N/A
6/19/2019	GBPNOK	9:30:00 AM	10.9791	10.9906			N/A
6/19/2019	GBPNOK	11:30:00 AM	10.9908	10.9937			N/A

6/19/2019	GBPNOK	1:30:00 PM	10.9807	10.9917			N/A
6/19/2019	GBPNOK	3:30:00 PM	10.9873	10.9961			N/A
6/19/2019	GBPNOK.fx	9:30:00 AM	10.98399	10.98563			N/A
6/19/2019	GBPNOK.fx	11:30:00 AM	10.99539	10.99022			N/A
6/19/2019	GBPNOK.fx	1:30:00 PM	10.9859	10.98662			N/A
6/19/2019	GBPNOK.fx	3:30:00 PM	10.9921	10.99119			N/A
6/19/2019	GBPNZD	9:30:00 AM	1.92257	1.92324			N/A
6/19/2019	GBPNZD	11:30:00 AM	1.9284	1.92795			N/A
6/19/2019	GBPNZD	1:30:00 PM	1.92688	1.92737			N/A
6/19/2019	GBPNZD	3:30:00 PM	1.92893	1.92925			N/A
6/19/2019	GBPNZD.fx	9:30:00 AM	1.92295	1.92287			N/A
6/19/2019	GBPNZD.fx	11:30:00 AM	1.92872	1.92768			N/A
6/19/2019	GBPNZD.fx	1:30:00 PM	1.92728	1.92698			N/A
6/19/2019	GBPNZD.fx	3:30:00 PM	1.92928	1.92889			N/A
6/19/2019	GBPPLN	9:30:00 AM	4.7816	4.7833			N/A
6/19/2019	GBPPLN	11:30:00 AM	4.7859	4.784			N/A
6/19/2019	GBPPLN	1:30:00 PM	4.7901	4.7913			N/A
6/19/2019	GBPPLN	3:30:00 PM	4.7922	4.7941			N/A
6/19/2019	GBPPLN.fx	9:30:00 AM	4.77946	4.78546			N/A
6/19/2019	GBPPLN.fx	11:30:00 AM	4.78355	4.78697			N/A
6/19/2019	GBPPLN.fx	1:30:00 PM	4.78786	4.79353			N/A
6/19/2019	GBPPLN.fx	3:30:00 PM	4.78999	4.79615			N/A
6/19/2019	GBPSEK	9:30:00 AM	11.978	11.9863			N/A
6/19/2019	GBPSEK	11:30:00 AM	12.003	12.0028			N/A
6/19/2019	GBPSEK	1:30:00 PM	11.9921	12.0001			N/A
6/19/2019	GBPSEK	3:30:00 PM	12.01	12.0132			N/A
6/19/2019	GBPSEK.fx	9:30:00 AM	11.97404	11.9904			N/A
6/19/2019	GBPSEK.fx	11:30:00 AM	11.99878	12.0085			N/A
6/19/2019	GBPSEK.fx	1:30:00 PM	11.98823	12.00373			N/A
6/19/2019	GBPSEK.fx	3:30:00 PM	12.00596	12.01735			N/A
6/19/2019	GBPSGD	9:30:00 AM	1.7172	1.718			N/A
6/19/2019	GBPSGD	11:30:00 AM	1.7201	1.7193			N/A
6/19/2019	GBPSGD	1:30:00 PM	1.7192	1.7199			N/A
6/19/2019	GBPSGD	3:30:00 PM	1.7207	1.7215			N/A

6/19/2019	GBPSGD.fx	9:30:00 AM	1.71535	1.71983			N/A
6/19/2019	GBPSGD.fx	11:30:00 AM	1.71825	1.72138			N/A
6/19/2019	GBPSGD.fx	1:30:00 PM	1.71734	1.72166			N/A
6/19/2019	GBPSGD.fx	3:30:00 PM	1.71883	1.7233			N/A
6/19/2019	GBPUSD	9:30:00 AM	1.25586	1.25592			N/A
6/19/2019	GBPUSD	11:30:00 AM	1.25778	1.25672			N/A
6/19/2019	GBPUSD	1:30:00 PM	1.25753	1.25755			N/A
6/19/2019	GBPUSD	3:30:00 PM	1.25841	1.25846			N/A
6/19/2019	GBPUSD.fx	9:30:00 AM	1.25591	1.25585			N/A
6/19/2019	GBPUSD.fx	11:30:00 AM	1.25782	1.25674			N/A
6/19/2019	GBPUSD.fx	1:30:00 PM	1.25759	1.25749			N/A
6/19/2019	GBPUSD.fx	3:30:00 PM	1.25846	1.25841			N/A
6/19/2019	GBPZAR	9:30:00 AM	18.2689	18.2853			N/A
6/19/2019	GBPZAR	11:30:00 AM	18.2488	18.2609			N/A
6/19/2019	GBPZAR	1:30:00 PM	18.2813	18.3002			N/A
6/19/2019	GBPZAR	3:30:00 PM	18.2706	18.2994			N/A
6/19/2019	GBPZAR.fx	9:30:00 AM	18.2753	18.278			N/A
6/19/2019	GBPZAR.fx	11:30:00 AM	18.2568	18.2565			N/A
6/19/2019	GBPZAR.fx	1:30:00 PM	18.2883	18.2933			N/A
6/19/2019	GBPZAR.fx	3:30:00 PM	18.2783	18.2924			N/A
6/19/2019	GOLD	9:30:00 AM	1344.48	1344.29			N/A
6/19/2019	GOLD	11:30:00 AM	1342.43	1342.48			N/A
6/19/2019	GOLD	1:30:00 PM	1342.48	1342.76			N/A
6/19/2019	GOLD	3:30:00 PM	1344.13	1343.97			N/A
6/19/2019	HKDJPY	9:30:00 AM	13.84	13.85			N/A
6/19/2019	HKDJPY	11:30:00 AM	13.85	13.85			N/A
6/19/2019	HKDJPY	1:30:00 PM					N/A
6/19/2019	HKDJPY	3:30:00 PM	13.86	13.87			N/A
6/19/2019	HKDJPY.fx	9:30:00 AM	13.832	13.838			N/A
6/19/2019	HKDJPY.fx	11:30:00 AM	13.842	13.848			N/A
6/19/2019	HKDJPY.fx	1:30:00 PM	13.849	13.857			N/A
6/19/2019	HKDJPY.fx	3:30:00 PM	13.855	13.862			N/A
6/19/2019	HUFJPY	9:30:00 AM	0.3754	0.3757			N/A
6/19/2019	HUFJPY	11:30:00 AM	0.3756	0.3759			N/A

6/19/2019	HUFJPY	1:30:00 PM	0.3753	0.3756			N/A
6/19/2019	HUFJPY	3:30:00 PM	0.3753	0.3756			N/A
6/19/2019	JP225.i	9:30:00 AM	21302.59	21317.59			N/A
6/19/2019	JP225.i	11:30:00 AM	21298.42	21310.09			N/A
6/19/2019	JP225.i	1:30:00 PM	21310.92	21330.09			N/A
6/19/2019	JP225.i	3:30:00 PM	21310.09	21329.04			N/A
6/19/2019	MXNJPY	9:30:00 AM	5.66	5.67			N/A
6/19/2019	MXNJPY	11:30:00 AM	5.66	5.67			N/A
6/19/2019	MXNJPY	1:30:00 PM	5.66	5.67			N/A
6/19/2019	MXNJPY	3:30:00 PM	5.66	5.67			N/A
6/19/2019	NASDAQ.i	9:30:00 AM					N/A
6/19/2019	NASDAQ.i	11:30:00 AM					N/A
6/19/2019	NASDAQ.i	1:30:00 PM					N/A
6/19/2019	NASDAQ.i	3:30:00 PM					N/A
6/19/2019	NOKJPY	9:30:00 AM					N/A
6/19/2019	NOKJPY	11:30:00 AM	12.39	12.41			N/A
6/19/2019	NOKJPY	1:30:00 PM	12.4	12.43			N/A
6/19/2019	NOKJPY	3:30:00 PM	12.41	12.44			N/A
6/19/2019	NOKJPY.fx	9:30:00 AM	12.377	12.384			N/A
6/19/2019	NOKJPY.fx	11:30:00 AM	12.396	12.398			N/A
6/19/2019	NOKJPY.fx	1:30:00 PM	12.405	12.411			N/A
6/19/2019	NOKJPY.fx	3:30:00 PM	12.413	12.417			N/A
6/19/2019	NZDCAD	9:30:00 AM	0.87319	0.87383			N/A
6/19/2019	NZDCAD	11:30:00 AM	0.87207	0.87272			N/A
6/19/2019	NZDCAD	1:30:00 PM	0.8726	0.87323			N/A
6/19/2019	NZDCAD	3:30:00 PM	0.87229	0.87099			N/A
6/19/2019	NZDCAD.fx	9:30:00 AM	0.87352	0.87348			N/A
6/19/2019	NZDCAD.fx	11:30:00 AM	0.87239	0.8724			N/A
6/19/2019	NZDCAD.fx	1:30:00 PM	0.87294	0.8729			N/A
6/19/2019	NZDCAD.fx	3:30:00 PM	0.87253	0.87068		1000	N/A
6/19/2019	NZDCHF	9:30:00 AM	0.65291	0.65353			N/A
6/19/2019	NZDCHF	11:30:00 AM	0.65072	0.65136			N/A
6/19/2019	NZDCHF	1:30:00 PM	0.65088	0.65154			N/A
6/19/2019	NZDCHF	3:30:00 PM	0.6504	0.65102			N/A

6/19/2019	NZDCHF.fx	9:30:00 AM	0.65325	0.65318			N/A
6/19/2019	NZDCHF.fx	11:30:00 AM	0.65105	0.65102			N/A
6/19/2019	NZDCHF.fx	1:30:00 PM	0.65123	0.65118			N/A
6/19/2019	NZDCHF.fx	3:30:00 PM	0.65074	0.65067			N/A
6/19/2019	NZDCZK	9:30:00 AM	14.922	14.934			N/A
6/19/2019	NZDCZK	11:30:00 AM	14.901	14.912			N/A
6/19/2019	NZDCZK	1:30:00 PM	14.911	14.922			N/A
6/19/2019	NZDCZK	3:30:00 PM	14.912	14.921			N/A
6/19/2019	NZDDKK	9:30:00 AM	4.355	4.358			N/A
6/19/2019	NZDDKK	11:30:00 AM	4.343	4.347			N/A
6/19/2019	NZDDKK	1:30:00 PM	4.348	4.351			N/A
6/19/2019	NZDDKK	3:30:00 PM	4.345	4.349			N/A
6/19/2019	NZDHKD	9:30:00 AM	5.1083	5.111			N/A
6/19/2019	NZDHKD	11:30:00 AM	5.1009	5.1031			N/A
6/19/2019	NZDHKD	1:30:00 PM	5.1035	5.1054			N/A
6/19/2019	NZDHKD	3:30:00 PM	5.101	5.1029			N/A
6/19/2019	NZDHUF	9:30:00 AM	188.29	188.58			N/A
6/19/2019	NZDHUF	11:30:00 AM	188.01	188.23			N/A
6/19/2019	NZDHUF	1:30:00 PM	188.37	188.65			N/A
6/19/2019	NZDHUF	3:30:00 PM	188.37	188.57			N/A
6/19/2019	NZDJPY	9:30:00 AM	70.689	70.76			N/A
6/19/2019	NZDJPY	11:30:00 AM	70.641	70.694			N/A
6/19/2019	NZDJPY	1:30:00 PM	70.711	70.776			N/A
6/19/2019	NZDJPY	3:30:00 PM	70.712	70.772			N/A
6/19/2019	NZDJPY.fx	9:30:00 AM	70.72	70.727			N/A
6/19/2019	NZDJPY.fx	11:30:00 AM	70.671	70.662			N/A
6/19/2019	NZDJPY.fx	1:30:00 PM	70.742	70.743			N/A
6/19/2019	NZDJPY.fx	3:30:00 PM	70.743	70.741			N/A
6/19/2019	NZDMXN	9:30:00 AM	12.4942	12.4984			N/A
6/19/2019	NZDMXN	11:30:00 AM	12.465	12.4694			N/A
6/19/2019	NZDMXN	1:30:00 PM	12.4956	12.4973			N/A
6/19/2019	NZDMXN	3:30:00 PM	12.4914	12.4928			N/A
6/19/2019	NZDNOK	9:30:00 AM	5.7085	5.7123			N/A
6/19/2019	NZDNOK	11:30:00 AM	5.695	5.6981			N/A

6/19/2019	NZDNOK	1:30:00 PM	5.6975	5.7005			N/A
6/19/2019	NZDNOK	3:30:00 PM	5.693	5.6943			N/A
6/19/2019	NZDPLN	9:30:00 AM	2.4852	2.4867			N/A
6/19/2019	NZDPLN	11:30:00 AM	2.4793	2.4798			N/A
6/19/2019	NZDPLN	1:30:00 PM	2.4842	2.4853			N/A
6/19/2019	NZDPLN	3:30:00 PM	2.4817	2.483			N/A
6/19/2019	NZDSEK	9:30:00 AM	6.2253	6.2309			N/A
6/19/2019	NZDSEK	11:30:00 AM	6.2177	6.2246			N/A
6/19/2019	NZDSEK	1:30:00 PM	6.2191	6.2247			N/A
6/19/2019	NZDSEK	3:30:00 PM	6.2201	6.2245			N/A
6/19/2019	NZDSGD	9:30:00 AM	0.8929	0.8936			N/A
6/19/2019	NZDSGD	11:30:00 AM	0.8917	0.8922			N/A
6/19/2019	NZDSGD	1:30:00 PM	0.8919	0.8924			N/A
6/19/2019	NZDSGD	3:30:00 PM	0.892	0.8924			N/A
6/19/2019	NZDSGD.fx	9:30:00 AM	0.89298	0.89349			N/A
6/19/2019	NZDSGD.fx	11:30:00 AM	0.89167	0.89212			N/A
6/19/2019	NZDSGD.fx	1:30:00 PM	0.89199	0.89252			N/A
6/19/2019	NZDSGD.fx	3:30:00 PM	0.89197	0.89232			N/A
6/19/2019	NZDUSD	9:30:00 AM	0.65303	0.65313			N/A
6/19/2019	NZDUSD	11:30:00 AM	0.65203	0.65206			N/A
6/19/2019	NZDUSD	1:30:00 PM	0.65249	0.65255			N/A
6/19/2019	NZDUSD	3:30:00 PM	0.65229	0.65229			N/A
6/19/2019	NZDUSD.fx	9:30:00 AM	0.6531	0.65313			N/A
6/19/2019	NZDUSD.fx	11:30:00 AM	0.65209	0.65207			N/A
6/19/2019	NZDUSD.fx	1:30:00 PM	0.65256	0.65257			N/A
6/19/2019	NZDUSD.fx	3:30:00 PM	0.65235	0.65231			N/A
6/19/2019	NZDZAR	9:30:00 AM	9.4936	9.5051			N/A
6/19/2019	NZDZAR	11:30:00 AM	9.4555	9.4662			N/A
6/19/2019	NZDZAR	1:30:00 PM	9.4801	9.4928			N/A
6/19/2019	NZDZAR	3:30:00 PM	9.4643	9.4785			N/A
6/19/2019	SEKJPY	9:30:00 AM	11.35	11.36			N/A
6/19/2019	SEKJPY	11:30:00 AM	11.35	11.36			N/A
6/19/2019	SEKJPY	1:30:00 PM	11.36	11.37			N/A
6/19/2019	SEKJPY	3:30:00 PM	11.36	11.37			N/A

6/19/2019	SEKJPY.fx	9:30:00 AM	11.341	11.358			N/A
6/19/2019	SEKJPY.fx	11:30:00 AM	11.343	11.359			N/A
6/19/2019	SEKJPY.fx	1:30:00 PM	11.354	11.371			N/A
6/19/2019	SEKJPY.fx	3:30:00 PM	11.353	11.366			N/A
6/19/2019	SGDJPY	9:30:00 AM	79.16	79.17			N/A
6/19/2019	SGDJPY	11:30:00 AM	79.24	79.22			N/A
6/19/2019	SGDJPY	1:30:00 PM	79.27	79.28			N/A
6/19/2019	SGDJPY	3:30:00 PM	79.27	79.29			N/A
6/19/2019	SILVER	9:30:00 AM	14.77	15.15			N/A
6/19/2019	SILVER	11:30:00 AM	14.74	15.11			N/A
6/19/2019	SILVER	1:30:00 PM	14.75	15.13			N/A
6/19/2019	SILVER	3:30:00 PM	14.8	15.17			N/A
6/19/2019	SPX500.i	9:30:00 AM	2923.79	2924.84			N/A
6/19/2019	SPX500.i	11:30:00 AM	2922.29	2922.34			N/A
6/19/2019	SPX500.i	1:30:00 PM	2923.79	2924.09			N/A
6/19/2019	SPX500.i	3:30:00 PM	2922.79	2923.59			N/A
6/19/2019	UK100.i	9:30:00 AM	7465.46	7467.63			N/A
6/19/2019	UK100.i	11:30:00 AM	7429.71	7429.46			N/A
6/19/2019	UK100.i	1:30:00 PM	7434.88	7436.79			N/A
6/19/2019	UK100.i	3:30:00 PM	7425.88	7426.21			N/A
6/19/2019	USDCAD	9:30:00 AM	1.33742	1.33749			N/A
6/19/2019	USDCAD	11:30:00 AM	1.33794	1.33781			N/A
6/19/2019	USDCAD	1:30:00 PM	1.33769	1.33769			N/A
6/19/2019	USDCAD	3:30:00 PM	1.33568	1.33463	10	69000	N/A
6/19/2019	USDCAD.fx	9:30:00 AM	1.33746	1.33745			N/A
6/19/2019	USDCAD.fx	11:30:00 AM	1.33795	1.33778			N/A
6/19/2019	USDCAD.fx	1:30:00 PM	1.33773	1.33765			N/A
6/19/2019	USDCAD.fx	3:30:00 PM	1.33567	1.33462			N/A
6/19/2019	USDCHF	9:30:00 AM	1.00024	1.00003			N/A
6/19/2019	USDCHF	11:30:00 AM	0.99834	0.99839			N/A
6/19/2019	USDCHF	1:30:00 PM	0.99785	0.998			N/A
6/19/2019	USDCHF	3:30:00 PM	0.99748	0.99753			N/A
6/19/2019	USDCHF.fx	9:30:00 AM	1.00029	0.99996			N/A
6/19/2019	USDCHF.fx	11:30:00 AM	0.99838	0.99834			N/A

6/19/2019	USDCHF.fx	1:30:00 PM	0.9979	0.99793			N/A
6/19/2019	USDCHF.fx	3:30:00 PM	0.99751	0.99749			N/A
6/19/2019	USDCZK	9:30:00 AM	22.869	22.889			N/A
6/19/2019	USDCZK	11:30:00 AM	22.872	22.893			N/A
6/19/2019	USDCZK	1:30:00 PM	22.869	22.891			N/A
6/19/2019	USDCZK	3:30:00 PM	22.877	22.901			N/A
6/19/2019	USDCZK.fx	9:30:00 AM	22.8763	22.8815			N/A
6/19/2019	USDCZK.fx	11:30:00 AM	22.8813	22.8838			N/A
6/19/2019	USDCZK.fx	1:30:00 PM	22.8782	22.8803			N/A
6/19/2019	USDCZK.fx	3:30:00 PM	22.888	22.8911			N/A
6/19/2019	USDDKK	9:30:00 AM	6.6702	6.6739			N/A
6/19/2019	USDDKK	11:30:00 AM	6.6638	6.6669			N/A
6/19/2019	USDDKK	1:30:00 PM	6.6644	6.6679			N/A
6/19/2019	USDDKK	3:30:00 PM	6.6635	6.6674			N/A
6/19/2019	USDDKK.fx	9:30:00 AM	6.67065	6.67178			N/A
6/19/2019	USDDKK.fx	11:30:00 AM	6.66428	6.6649			N/A
6/19/2019	USDDKK.fx	1:30:00 PM	6.66496	6.66595			N/A
6/19/2019	USDDKK.fx	3:30:00 PM	6.66435	6.6654			N/A
6/19/2019	USDHKD	9:30:00 AM	7.8263	7.8264			N/A
6/19/2019	USDHKD	11:30:00 AM	7.8275	7.8272			N/A
6/19/2019	USDHKD	1:30:00 PM	7.8244	7.8247			N/A
6/19/2019	USDHKD	3:30:00 PM	7.8242	7.8237			N/A
6/19/2019	USDHKD.fx	9:30:00 AM	7.82632	7.82688			N/A
6/19/2019	USDHKD.fx	11:30:00 AM	7.82742	7.82726			N/A
6/19/2019	USDHKD.fx	1:30:00 PM	7.82445	7.82498			N/A
6/19/2019	USDHKD.fx	3:30:00 PM	7.82412	7.82467			N/A
6/19/2019	USDHUF	9:30:00 AM	288.46	288.91			N/A
6/19/2019	USDHUF	11:30:00 AM	288.63	289.01			N/A
6/19/2019	USDHUF	1:30:00 PM	288.8	289.24			N/A
6/19/2019	USDHUF	3:30:00 PM	288.94	289.41			N/A
6/19/2019	USDHUF.fx	9:30:00 AM	288.653	288.727			N/A
6/19/2019	USDHUF.fx	11:30:00 AM	288.841	288.809			N/A
6/19/2019	USDHUF.fx	1:30:00 PM	289.001	289.037			N/A
6/19/2019	USDHUF.fx	3:30:00 PM	289.142	289.206			N/A

6/19/2019	USDINR	9:30:00 AM	64.67	74.66			N/A
6/19/2019	USDINR	11:30:00 AM	64.76	74.74			N/A
6/19/2019	USDINR	1:30:00 PM					N/A
6/19/2019	USDINR	3:30:00 PM					N/A
6/19/2019	USDJPY	9:30:00 AM	108.286	108.288			N/A
6/19/2019	USDJPY	11:30:00 AM	108.379	108.374			N/A
6/19/2019	USDJPY	1:30:00 PM	108.398	108.411			N/A
6/19/2019	USDJPY	3:30:00 PM	108.437	108.448	3000	3000	N/A
6/19/2019	USDJPY.fx	9:30:00 AM	108.293	108.281			N/A
6/19/2019	USDJPY.fx	11:30:00 AM	108.384	108.368			N/A
6/19/2019	USDJPY.fx	1:30:00 PM	108.404	108.404			N/A
6/19/2019	USDJPY.fx	3:30:00 PM	108.442	108.442			N/A
6/19/2019	USDMXN	9:30:00 AM	19.14	19.141			N/A
6/19/2019	USDMXN	11:30:00 AM	19.125	19.131			N/A
6/19/2019	USDMXN	1:30:00 PM	19.159	19.156			N/A
6/19/2019	USDMXN	3:30:00 PM	19.156	19.163			N/A
6/19/2019	USDMXN.f	9:30:00 AM					N/A
6/19/2019	USDMXN.f	11:30:00 AM					N/A
6/19/2019	USDMXN.f	1:30:00 PM					N/A
6/19/2019	USDMXN.f	3:30:00 PM					N/A
6/19/2019	USDNOK	9:30:00 AM	8.7427	8.751			N/A
6/19/2019	USDNOK	11:30:00 AM	8.7389	8.7447			N/A
6/19/2019	USDNOK	1:30:00 PM	8.7329	8.7402			N/A
6/19/2019	USDNOK	3:30:00 PM	8.7315	8.7382			N/A
6/19/2019	USDNOK.fx	9:30:00 AM	8.74668	8.74647			N/A
6/19/2019	USDNOK.fx	11:30:00 AM	8.74315	8.74001			N/A
6/19/2019	USDNOK.fx	1:30:00 PM	8.73707	8.73556			N/A
6/19/2019	USDNOK.fx	3:30:00 PM	8.73578	8.73362			N/A
6/19/2019	USDPLN	9:30:00 AM	3.8068	3.8081			N/A
6/19/2019	USDPLN	11:30:00 AM	3.8046	3.8054			N/A
6/19/2019	USDPLN	1:30:00 PM	3.8086	3.8093			N/A
6/19/2019	USDPLN	3:30:00 PM	3.8074	3.8091			N/A
6/19/2019	USDPLN.fx	9:30:00 AM	3.80598	3.80882			N/A
6/19/2019	USDPLN.fx	11:30:00 AM	3.80387	3.80614			N/A

6/19/2019	USDPLN.fx	1:30:00 PM	3.80786	3.81006			N/A
6/19/2019	USDPLN.fx	3:30:00 PM	3.8069	3.80982			N/A
6/19/2019	USDRUB	9:30:00 AM					N/A
6/19/2019	USDRUB	11:30:00 AM	63.749	64.145			N/A
6/19/2019	USDRUB	1:30:00 PM	63.82	64.208			N/A
6/19/2019	USDRUB	3:30:00 PM	63.818	64.212			N/A
6/19/2019	USDSEK	9:30:00 AM	9.5374	9.5406			N/A
6/19/2019	USDSEK	11:30:00 AM	9.5433	9.5463			N/A
6/19/2019	USDSEK	1:30:00 PM	9.5362	9.5397			N/A
6/19/2019	USDSEK	3:30:00 PM	9.5428	9.5432			N/A
6/19/2019	USDSEK.fx	9:30:00 AM	9.53954	9.53891			N/A
6/19/2019	USDSEK.fx	11:30:00 AM	9.54592	9.54457			N/A
6/19/2019	USDSEK.fx	1:30:00 PM	9.53881	9.53758			N/A
6/19/2019	USDSEK.fx	3:30:00 PM	9.54569	9.54126			N/A
6/19/2019	USDSGD	9:30:00 AM	1.3675	1.3679			N/A
6/19/2019	USDSGD	11:30:00 AM	1.3677	1.368			N/A
6/19/2019	USDSGD	1:30:00 PM	1.3672	1.3673			N/A
6/19/2019	USDSGD	3:30:00 PM	1.3674	1.3675			N/A
6/19/2019	USDSGD.fx	9:30:00 AM	1.36738	1.36788			N/A
6/19/2019	USDSGD.fx	11:30:00 AM	1.36758	1.368			N/A
6/19/2019	USDSGD.fx	1:30:00 PM	1.36708	1.36753			N/A
6/19/2019	USDSGD.fx	3:30:00 PM	1.36734	1.36783			N/A
6/19/2019	USDZAR	9:30:00 AM	14.5499	14.5569			N/A
6/19/2019	USDZAR	11:30:00 AM	14.5106	14.5244			N/A
6/19/2019	USDZAR	1:30:00 PM	14.5406	14.5498			N/A
6/19/2019	USDZAR	3:30:00 PM	14.5206	14.5387			N/A
6/19/2019	USDZAR.fx	9:30:00 AM					N/A
6/19/2019	USDZAR.fx	11:30:00 AM	14.51697	14.51773			N/A
6/19/2019	USDZAR.fx	1:30:00 PM	14.54638	14.54422			N/A
6/19/2019	USDZAR.fx	3:30:00 PM	14.52736	14.53243			N/A
6/19/2019	XAUUSD	9:30:00 AM	1344.48	1344.29			N/A
6/19/2019	XAUUSD	11:30:00 AM	1342.44	1342.5			N/A
6/19/2019	XAUUSD	1:30:00 PM	1342.48	1342.76			N/A
6/19/2019	XAUUSD	3:30:00 PM	1344.13	1343.79			N/A

6/19/2019	ZARJPY	9:30:00 AM	7.43	7.44			N/A
6/19/2019	ZARJPY	11:30:00 AM	7.45	7.47			N/A
6/19/2019	ZARJPY	1:30:00 PM	7.43	7.45			N/A
6/19/2019	ZARJPY	3:30:00 PM	7.43	7.47			N/A
6/19/2019	ZARJPY.fx	9:30:00 AM	7.44	7.441			N/A
6/19/2019	ZARJPY.fx	11:30:00 AM	7.463	7.465			N/A
6/19/2019	ZARJPY.fx	1:30:00 PM	7.452	7.453			N/A
6/19/2019	ZARJPY.fx	3:30:00 PM	7.46	7.466			N/A
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6/20/2019	#KO	3:30:00 PM					N/A
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6/20/2019	#Litecoin	11:30:00 AM	135.2	135.41			N/A

6/20/2019	#Litecoin	1:30:00 PM	134.88	135.42			N/A
6/20/2019	#Litecoin	3:30:00 PM	135.14	135.76			N/A
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6/20/2019	#LLOY	11:30:00 AM					N/A
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6/20/2019	#WMT	3:30:00 PM					N/A
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6/20/2019	#ZNGA	1:30:00 PM					N/A
6/20/2019	#ZNGA	3:30:00 PM					N/A
6/20/2019	AUDCAD	9:30:00 AM	0.91335	0.91403			N/A
6/20/2019	AUDCAD	11:30:00 AM	0.91389	0.91444			N/A
6/20/2019	AUDCAD	1:30:00 PM	0.91277	0.91317			N/A
6/20/2019	AUDCAD	3:30:00 PM	0.91149	0.91207			N/A
6/20/2019	AUDCAD.fx	9:30:00 AM	0.91368	0.91368			N/A
6/20/2019	AUDCAD.fx	11:30:00 AM	0.91422	0.91411			N/A
6/20/2019	AUDCAD.fx	1:30:00 PM	0.9131	0.91283			N/A
6/20/2019	AUDCAD.fx	3:30:00 PM	0.91175	0.91171			N/A
6/20/2019	AUDCHF	9:30:00 AM	0.68258	0.68326			N/A
6/20/2019	AUDCHF	11:30:00 AM	0.68316	0.68379			N/A
6/20/2019	AUDCHF	1:30:00 PM	0.6821	0.68263			N/A
6/20/2019	AUDCHF	3:30:00 PM	0.68207	0.68221			N/A
6/20/2019	AUDCHF.fx	9:30:00 AM	0.68292	0.68291			N/A
6/20/2019	AUDCHF.fx	11:30:00 AM	0.68349	0.68345			N/A
6/20/2019	AUDCHF.fx	1:30:00 PM	0.68244	0.68228			N/A
6/20/2019	AUDCHF.fx	3:30:00 PM	0.68236	0.68187			N/A
6/20/2019	AUDCZK	9:30:00 AM	15.659	15.676			N/A
6/20/2019	AUDCZK	11:30:00 AM	15.675	15.691			N/A
6/20/2019	AUDCZK	1:30:00 PM	15.662	15.677			N/A
6/20/2019	AUDCZK	3:30:00 PM	15.673	15.685			N/A
6/20/2019	AUDDKK	9:30:00 AM	4.5689	4.5737			N/A
6/20/2019	AUDDKK	11:30:00 AM	4.5736	4.5778			N/A
6/20/2019	AUDDKK	1:30:00 PM	4.5683	4.5723			N/A
6/20/2019	AUDDKK	3:30:00 PM	4.5729	4.5763			N/A

6/20/2019	AUDHKD	9:30:00 AM	5.3939	5.3978			N/A
6/20/2019	AUDHKD	11:30:00 AM	5.4044	5.4083			N/A
6/20/2019	AUDHKD	1:30:00 PM	5.4052	5.4076			N/A
6/20/2019	AUDHKD	3:30:00 PM					N/A
6/20/2019	AUDHUF	9:30:00 AM	197.83	198.01			N/A
6/20/2019	AUDHUF	11:30:00 AM	198.25	198.49			N/A
6/20/2019	AUDHUF	1:30:00 PM	198.23	198.42			N/A
6/20/2019	AUDHUF	3:30:00 PM	198.01	198.2			N/A
6/20/2019	AUDJPY	9:30:00 AM	74.245	74.314			N/A
6/20/2019	AUDJPY	11:30:00 AM	74.529	74.594			N/A
6/20/2019	AUDJPY	1:30:00 PM	74.586	74.638			N/A
6/20/2019	AUDJPY	3:30:00 PM	74.556	74.585			N/A
6/20/2019	AUDJPY.fx	9:30:00 AM	74.279	74.279			N/A
6/20/2019	AUDJPY.fx	11:30:00 AM	74.562	74.559			N/A
6/20/2019	AUDJPY.fx	1:30:00 PM	74.62	74.603			N/A
6/20/2019	AUDJPY.fx	3:30:00 PM	74.582	74.551			N/A
6/20/2019	AUDMXN	9:30:00 AM	13.0901	13.0991			N/A
6/20/2019	AUDMXN	11:30:00 AM	13.1096	13.1142			N/A
6/20/2019	AUDMXN	1:30:00 PM	13.0907	13.0979			N/A
6/20/2019	AUDMXN	3:30:00 PM	13.0923	13.1014			N/A
6/20/2019	AUDNOK	9:30:00 AM	5.9585	5.9627			N/A
6/20/2019	AUDNOK	11:30:00 AM	5.9265	5.929			N/A
6/20/2019	AUDNOK	1:30:00 PM	5.922	5.9257			N/A
6/20/2019	AUDNOK	3:30:00 PM	5.9194	5.9209			N/A
6/20/2019	AUDNOK.fx	9:30:00 AM	5.96	5.961			N/A
6/20/2019	AUDNOK.fx	11:30:00 AM	5.9281	5.9273			N/A
6/20/2019	AUDNOK.fx	1:30:00 PM	5.9235	5.924			N/A
6/20/2019	AUDNOK.fx	3:30:00 PM	5.9185	5.9194			N/A
6/20/2019	AUDNZD	9:30:00 AM	1.04867	1.04952			N/A
6/20/2019	AUDNZD	11:30:00 AM	1.05009	1.05098			N/A
6/20/2019	AUDNZD	1:30:00 PM	1.0497	1.05056			N/A
6/20/2019	AUDNZD	3:30:00 PM	1.05091	1.05155			N/A
6/20/2019	AUDNZD.fx	9:30:00 AM	1.0491	1.04907			N/A
6/20/2019	AUDNZD.fx	11:30:00 AM	1.05051	1.05053			N/A

6/20/2019	AUDNZD.fx	1:30:00 PM	1.05014	1.05011			N/A
6/20/2019	AUDNZD.fx	3:30:00 PM	1.0512	1.05111			N/A
6/20/2019	AUDPLN	9:30:00 AM	2.6049	2.6079			N/A
6/20/2019	AUDPLN	11:30:00 AM	2.6083	2.6113			N/A
6/20/2019	AUDPLN	1:30:00 PM	2.6045	2.6075			N/A
6/20/2019	AUDPLN	3:30:00 PM	2.6053	2.6078			N/A
6/20/2019	AUDSEK	9:30:00 AM	6.5149	6.5176			N/A
6/20/2019	AUDSEK	11:30:00 AM	6.5152	6.5172			N/A
6/20/2019	AUDSEK	1:30:00 PM	6.5153	6.5169			N/A
6/20/2019	AUDSEK	3:30:00 PM	6.5115	6.5133			N/A
6/20/2019	AUDSEK.fx	9:30:00 AM	6.5103	6.5222			N/A
6/20/2019	AUDSEK.fx	11:30:00 AM	6.5107	6.5219			N/A
6/20/2019	AUDSEK.fx	1:30:00 PM	6.5105	6.5213			N/A
6/20/2019	AUDSEK.fx	3:30:00 PM	6.5063	6.5175			N/A
6/20/2019	AUDSGD	9:30:00 AM	0.9378	0.9379			N/A
6/20/2019	AUDSGD	11:30:00 AM	0.9391	0.9392			N/A
6/20/2019	AUDSGD	1:30:00 PM	0.9388	0.9389			N/A
6/20/2019	AUDSGD	3:30:00 PM	0.9398	0.94			N/A
6/20/2019	AUDSGD.fx	9:30:00 AM	0.93788	0.93798			N/A
6/20/2019	AUDSGD.fx	11:30:00 AM	0.93917	0.93916			N/A
6/20/2019	AUDSGD.fx	1:30:00 PM	0.93891	0.93876			N/A
6/20/2019	AUDSGD.fx	3:30:00 PM	0.93984	0.93992			N/A
6/20/2019	AUDUSD	9:30:00 AM	0.69061	0.69069			N/A
6/20/2019	AUDUSD	11:30:00 AM	0.69211	0.69215			N/A
6/20/2019	AUDUSD	1:30:00 PM	0.69198	0.69188			N/A
6/20/2019	AUDUSD	3:30:00 PM	0.6931	0.69314			N/A
6/20/2019	AUDUSD.fx	9:30:00 AM	0.69066	0.69063			N/A
6/20/2019	AUDUSD.fx	11:30:00 AM	0.69215	0.6921			N/A
6/20/2019	AUDUSD.fx	1:30:00 PM	0.69203	0.69183			N/A
6/20/2019	AUDUSD.fx	3:30:00 PM	0.69316	0.69311			N/A
6/20/2019	AUDZAR	9:30:00 AM	9.8392	9.854			N/A
6/20/2019	AUDZAR	11:30:00 AM	9.8348	9.8474			N/A
6/20/2019	AUDZAR	1:30:00 PM	9.8349	9.8474			N/A
6/20/2019	AUDZAR	3:30:00 PM	9.856	9.8694			N/A

6/20/2019	AUS200.i	9:30:00 AM	6693.1	6694.6			N/A
6/20/2019	AUS200.i	11:30:00 AM	6700.46	6702.26			N/A
6/20/2019	AUS200.i	1:30:00 PM	6704.46	6707.06			N/A
6/20/2019	AUS200.i	3:30:00 PM					N/A
6/20/2019	BCHUSD	9:30:00 AM	425.54	427.41			N/A
6/20/2019	BCHUSD	11:30:00 AM	421.5	422.66			N/A
6/20/2019	BCHUSD	1:30:00 PM	417.47	419.19			N/A
6/20/2019	BCHUSD	3:30:00 PM	417.77	419.77			N/A
6/20/2019	CADCHF	9:30:00 AM	0.74712	0.74772			N/A
6/20/2019	CADCHF	11:30:00 AM	0.74734	0.74792			N/A
6/20/2019	CADCHF	1:30:00 PM	0.74706	0.74778			N/A
6/20/2019	CADCHF	3:30:00 PM	0.74804	0.74824			N/A
6/20/2019	CADCHF.fx	9:30:00 AM	0.74745	0.74737			N/A
6/20/2019	CADCHF.fx	11:30:00 AM	0.74766	0.74758			N/A
6/20/2019	CADCHF.fx	1:30:00 PM	0.7474	0.74741			N/A
6/20/2019	CADCHF.fx	3:30:00 PM	0.74834	0.74789			N/A
6/20/2019	CADCZK	9:30:00 AM	17.143	17.158			N/A
6/20/2019	CADCZK	11:30:00 AM	17.152	17.168			N/A
6/20/2019	CADCZK	1:30:00 PM	17.159	17.173			N/A
6/20/2019	CADCZK	3:30:00 PM	17.193	17.207			N/A
6/20/2019	CADDKK	9:30:00 AM					N/A
6/20/2019	CADDKK	11:30:00 AM	5.002	5.006			N/A
6/20/2019	CADDKK	1:30:00 PM	5.005	5.008			N/A
6/20/2019	CADDKK	3:30:00 PM	5.014	5.018			N/A
6/20/2019	CADHKD	9:30:00 AM	5.9048	5.9085			N/A
6/20/2019	CADHKD	11:30:00 AM	5.9136	5.9175			N/A
6/20/2019	CADHKD	1:30:00 PM	5.9204	5.9242			N/A
6/20/2019	CADHKD	3:30:00 PM					N/A
6/20/2019	CADHUF	9:30:00 AM	216.59	216.68			N/A
6/20/2019	CADHUF	11:30:00 AM	216.95	217.11			N/A
6/20/2019	CADHUF	1:30:00 PM	217.18	217.33			N/A
6/20/2019	CADHUF	3:30:00 PM	217.24	217.38			N/A
6/20/2019	CADJPY	9:30:00 AM	81.265	81.331			N/A
6/20/2019	CADJPY	11:30:00 AM	81.528	81.594			N/A

6/20/2019	CADJPY	1:30:00 PM	81.692	81.764			N/A
6/20/2019	CADJPY	3:30:00 PM	81.769	81.8			N/A
6/20/2019	CADJPY.fx	9:30:00 AM	81.298	81.297			N/A
6/20/2019	CADJPY.fx	11:30:00 AM	81.561	81.56			N/A
6/20/2019	CADJPY.fx	1:30:00 PM	81.725	81.729			N/A
6/20/2019	CADJPY.fx	3:30:00 PM	81.802	81.769			N/A
6/20/2019	CADMXN	9:30:00 AM	14.3282	14.3407			N/A
6/20/2019	CADMXN	11:30:00 AM	14.3413	14.3519			N/A
6/20/2019	CADMXN	1:30:00 PM	14.3391	14.3502			N/A
6/20/2019	CADMXN	3:30:00 PM	14.3619	14.3719			N/A
6/20/2019	CADNOK	9:30:00 AM	6.5203	6.5239			N/A
6/20/2019	CADNOK	11:30:00 AM	6.4798	6.4811			N/A
6/20/2019	CADNOK	1:30:00 PM	6.4855	6.4896			N/A
6/20/2019	CADNOK	3:30:00 PM	6.4876	6.4912			N/A
6/20/2019	CADPLN	9:30:00 AM	2.8518	2.8537			N/A
6/20/2019	CADPLN	11:30:00 AM	2.8524	2.8539			N/A
6/20/2019	CADPLN	1:30:00 PM	2.8532	2.8548			N/A
6/20/2019	CADPLN	3:30:00 PM	2.8565	2.858			N/A
6/20/2019	CADSEK	9:30:00 AM	7.1278	7.1305			N/A
6/20/2019	CADSEK	11:30:00 AM	7.1252	7.1277			N/A
6/20/2019	CADSEK	1:30:00 PM	7.1339	7.137			N/A
6/20/2019	CADSEK	3:30:00 PM	7.1398	7.1424			N/A
6/20/2019	CADSGD	9:30:00 AM	1.0259	1.0262			N/A
6/20/2019	CADSGD	11:30:00 AM	1.0266	1.0269			N/A
6/20/2019	CADSGD	1:30:00 PM	1.0276	1.0279			N/A
6/20/2019	CADSGD	3:30:00 PM	1.0301	1.0305			N/A
6/20/2019	CADZAR	9:30:00 AM	10.7698	10.7864			N/A
6/20/2019	CADZAR	11:30:00 AM	10.7614	10.7743			N/A
6/20/2019	CADZAR	1:30:00 PM	10.7745	10.7881			N/A
6/20/2019	CADZAR	3:30:00 PM	10.8111	10.8273			N/A
6/20/2019	CHFCZK	9:30:00 AM	22.94	22.955			N/A
6/20/2019	CHFCZK	11:30:00 AM	22.948	22.961			N/A
6/20/2019	CHFCZK	1:30:00 PM	22.963	22.975			N/A
6/20/2019	CHFCZK	3:30:00 PM	22.989	22.993			N/A

6/20/2019	CHFDKK	9:30:00 AM	6.692	6.695			N/A
6/20/2019	CHFDKK	11:30:00 AM	6.694	6.696			N/A
6/20/2019	CHFDKK	1:30:00 PM	6.697	6.699			N/A
6/20/2019	CHFDKK	3:30:00 PM	6.707	6.707			N/A
6/20/2019	CHFDKK.fx	9:30:00 AM	6.6909	6.6966			N/A
6/20/2019	CHFDKK.fx	11:30:00 AM	6.6921	6.6974			N/A
6/20/2019	CHFDKK.fx	1:30:00 PM	6.6953	6.7002			N/A
6/20/2019	CHFDKK.fx	3:30:00 PM	6.7059	6.7089			N/A
6/20/2019	CHFHKD	9:30:00 AM	7.9021	7.9047			N/A
6/20/2019	CHFHKD	11:30:00 AM	7.9117	7.9143			N/A
6/20/2019	CHFHKD	1:30:00 PM	7.9227	7.926			N/A
6/20/2019	CHFHKD	3:30:00 PM	7.9427	7.9385			N/A
6/20/2019	CHFHUF	9:30:00 AM	289.73	290.03			N/A
6/20/2019	CHFHUF	11:30:00 AM	290.13	290.52			N/A
6/20/2019	CHFHUF	1:30:00 PM	290.51	290.88			N/A
6/20/2019	CHFHUF	3:30:00 PM	290.38	290.61			N/A
6/20/2019	CHFJPY	9:30:00 AM	108.74	108.797			N/A
6/20/2019	CHFJPY	11:30:00 AM	109.063	109.121			N/A
6/20/2019	CHFJPY	1:30:00 PM	109.31	109.38			N/A
6/20/2019	CHFJPY	3:30:00 PM	109.342	109.316			N/A
6/20/2019	CHFJPY.fx	9:30:00 AM	108.773	108.762			N/A
6/20/2019	CHFJPY.fx	11:30:00 AM	109.095	109.088			N/A
6/20/2019	CHFJPY.fx	1:30:00 PM	109.344	109.345			N/A
6/20/2019	CHFJPY.fx	3:30:00 PM	109.374	109.285			N/A
6/20/2019	CHFMXN	9:30:00 AM	19.1729	19.1866			N/A
6/20/2019	CHFMXN	11:30:00 AM	19.184	19.1966			N/A
6/20/2019	CHFMXN	1:30:00 PM	19.1867	19.2015			N/A
6/20/2019	CHFMXN	3:30:00 PM	19.2056	19.2038			N/A
6/20/2019	CHFNOK	9:30:00 AM	8.7252	8.732			N/A
6/20/2019	CHFNOK	11:30:00 AM	8.6708	8.6755			N/A
6/20/2019	CHFNOK	1:30:00 PM	8.6779	8.6855			N/A
6/20/2019	CHFNOK	3:30:00 PM	8.6767	8.6808			N/A
6/20/2019	CHFNOK.fx	9:30:00 AM	8.72868	8.72845			N/A
6/20/2019	CHFNOK.fx	11:30:00 AM	8.67429	8.67198			N/A

6/20/2019	CHFNOK.fx	1:30:00 PM	8.68157	8.6819			N/A
6/20/2019	CHFNOK.fx	3:30:00 PM	8.67858	8.67711			N/A
6/20/2019	CHFPLN	9:30:00 AM	3.8156	3.818			N/A
6/20/2019	CHFPLN	11:30:00 AM	3.817	3.8196			N/A
6/20/2019	CHFPLN	1:30:00 PM	3.8181	3.8203			N/A
6/20/2019	CHFPLN	3:30:00 PM	3.8211	3.8218			N/A
6/20/2019	CHFPLN.fx	9:30:00 AM	3.81296	3.82045			N/A
6/20/2019	CHFPLN.fx	11:30:00 AM	3.81443	3.82213			N/A
6/20/2019	CHFPLN.fx	1:30:00 PM	3.81566	3.82253			N/A
6/20/2019	CHFPLN.fx	3:30:00 PM	3.81858	3.82504			N/A
6/20/2019	CHFSEK	9:30:00 AM	9.5381	9.5411			N/A
6/20/2019	CHFSEK	11:30:00 AM	9.5298	9.5335			N/A
6/20/2019	CHFSEK	1:30:00 PM	9.5455	9.5492			N/A
6/20/2019	CHFSEK	3:30:00 PM	9.5484	9.5433			N/A
6/20/2019	CHFSGD	9:30:00 AM	1.3733	1.3736			N/A
6/20/2019	CHFSGD	11:30:00 AM	1.3739	1.3743			N/A
6/20/2019	CHFSGD	1:30:00 PM	1.3757	1.3761			N/A
6/20/2019	CHFSGD	3:30:00 PM	1.3781	1.3775			N/A
6/20/2019	CHFSGD.fx	9:30:00 AM	1.37342	1.37337			N/A
6/20/2019	CHFSGD.fx	11:30:00 AM	1.37412	1.37408			N/A
6/20/2019	CHFSGD.fx	1:30:00 PM	1.37583	1.37595			N/A
6/20/2019	CHFSGD.fx	3:30:00 PM	1.3783	1.37743			N/A
6/20/2019	CHFZAR	9:30:00 AM	14.4153	14.4273			N/A
6/20/2019	CHFZAR	11:30:00 AM	14.3978	14.4099			N/A
6/20/2019	CHFZAR	1:30:00 PM	14.4206	14.4303			N/A
6/20/2019	CHFZAR	3:30:00 PM	14.4611	14.4653			N/A
6/20/2019	CZKJPY	9:30:00 AM	4.739	4.743			N/A
6/20/2019	CZKJPY	11:30:00 AM					N/A
6/20/2019	CZKJPY	1:30:00 PM					N/A
6/20/2019	CZKJPY	3:30:00 PM	4.755	4.757			N/A
6/20/2019	DAX30.i	9:30:00 AM	12373.38	12370.38			N/A
6/20/2019	DAX30.i	11:30:00 AM	12413.63	12405.88			N/A
6/20/2019	DAX30.i	1:30:00 PM	12417.13	12414.63			N/A
6/20/2019	DAX30.i	3:30:00 PM	12397.13	12395.88			N/A

6/20/2019	DJ30.i	9:30:00 AM					N/A
6/20/2019	DJ30.i	11:30:00 AM					N/A
6/20/2019	DJ30.i	1:30:00 PM					N/A
6/20/2019	DJ30.i	3:30:00 PM					N/A
6/20/2019	DKKJPY	9:30:00 AM					N/A
6/20/2019	DKKJPY	11:30:00 AM					N/A
6/20/2019	DKKJPY	1:30:00 PM	16.32	16.34			N/A
6/20/2019	DKKJPY	3:30:00 PM	16.31	16.32			N/A
6/20/2019	EURAUD	9:30:00 AM	1.63253	1.63299			N/A
6/20/2019	EURAUD	11:30:00 AM	1.63097	1.63121			N/A
6/20/2019	EURAUD	1:30:00 PM	1.63297	1.63315			N/A
6/20/2019	EURAUD	3:30:00 PM	1.63166	1.63142			N/A
6/20/2019	EURAUD.fx	9:30:00 AM	1.63273	1.63278			N/A
6/20/2019	EURAUD.fx	11:30:00 AM	1.63117	1.63099			N/A
6/20/2019	EURAUD.fx	1:30:00 PM	1.63316	1.63293			N/A
6/20/2019	EURAUD.fx	3:30:00 PM	1.63186	1.63126			N/A
6/20/2019	EURCAD	9:30:00 AM	1.492	1.49277			N/A
6/20/2019	EURCAD	11:30:00 AM	1.49133	1.49209			N/A
6/20/2019	EURCAD	1:30:00 PM	1.49108	1.49169			N/A
6/20/2019	EURCAD	3:30:00 PM	1.48795	1.48841			N/A
6/20/2019	EURCAD.fx	9:30:00 AM	1.49242	1.49235			N/A
6/20/2019	EURCAD.fx	11:30:00 AM	1.49174	1.49168			N/A
6/20/2019	EURCAD.fx	1:30:00 PM	1.49149	1.49125			N/A
6/20/2019	EURCAD.fx	3:30:00 PM	1.48833	1.48805			N/A
6/20/2019	EURCHF	9:30:00 AM	1.11544	1.11547			N/A
6/20/2019	EURCHF	11:30:00 AM	1.11523	1.11521			N/A
6/20/2019	EURCHF	1:30:00 PM	1.11474	1.11467			N/A
6/20/2019	EURCHF	3:30:00 PM	1.11346	1.11292			N/A
6/20/2019	EURCHF.fx	9:30:00 AM	1.11549	1.11541			N/A
6/20/2019	EURCHF.fx	11:30:00 AM	1.11527	1.11516			N/A
6/20/2019	EURCHF.fx	1:30:00 PM	1.1148	1.11461			N/A
6/20/2019	EURCHF.fx	3:30:00 PM	1.11347	1.11287			N/A
6/20/2019	EURCZK	9:30:00 AM	25.574	25.613			N/A
6/20/2019	EURCZK	11:30:00 AM	25.575	25.615			N/A

6/20/2019	EURCZK	1:30:00 PM	25.581	25.62			N/A
6/20/2019	EURCZK	3:30:00 PM	25.573	25.611			N/A
6/20/2019	EURDKK	9:30:00 AM	7.4648	7.4661			N/A
6/20/2019	EURDKK	11:30:00 AM					N/A
6/20/2019	EURDKK	1:30:00 PM	7.4647	7.4656			N/A
6/20/2019	EURDKK	3:30:00 PM	7.464	7.4653			N/A
6/20/2019	EURGBP	9:30:00 AM	0.88772	0.88773			N/A
6/20/2019	EURGBP	11:30:00 AM	0.8877	0.88764			N/A
6/20/2019	EURGBP	1:30:00 PM	0.88884	0.88882			N/A
6/20/2019	EURGBP	3:30:00 PM	0.8922	0.89201			N/A
6/20/2019	EURGBP.fx	9:30:00 AM	0.88775	0.88769			N/A
6/20/2019	EURGBP.fx	11:30:00 AM	0.88772	0.8876			N/A
6/20/2019	EURGBP.fx	1:30:00 PM	0.88888	0.88877			N/A
6/20/2019	EURGBP.fx	3:30:00 PM	0.89222	0.89206			N/A
6/20/2019	EURHKD	9:30:00 AM	8.8138	8.8184			N/A
6/20/2019	EURHKD	11:30:00 AM	8.8234	8.828			N/A
6/20/2019	EURHKD	1:30:00 PM	8.8319	8.8357			N/A
6/20/2019	EURHKD	3:30:00 PM	8.8432	8.8431			N/A
6/20/2019	EURHKD.fx	9:30:00 AM	8.81664	8.81551			N/A
6/20/2019	EURHKD.fx	11:30:00 AM	8.82616	8.82515			N/A
6/20/2019	EURHKD.fx	1:30:00 PM	8.83471	8.83287			N/A
6/20/2019	EURHKD.fx	3:30:00 PM	8.84549	8.84077			N/A
6/20/2019	EURHUF	9:30:00 AM	323.1	323.71			N/A
6/20/2019	EURHUF	11:30:00 AM	323.65	324.37			N/A
6/20/2019	EURHUF	1:30:00 PM	323.76	324.38			N/A
6/20/2019	EURHUF	3:30:00 PM	323.31	324.02			N/A
6/20/2019	EURHUF.fx	9:30:00 AM	323.379	323.418			N/A
6/20/2019	EURHUF.fx	11:30:00 AM	323.918	324.089			N/A
6/20/2019	EURHUF.fx	1:30:00 PM	324.081	324.185			N/A
6/20/2019	EURHUF.fx	3:30:00 PM	323.569	323.748			N/A
6/20/2019	EURJPY	9:30:00 AM	121.325	121.329			N/A
6/20/2019	EURJPY	11:30:00 AM	121.66	121.664			N/A
6/20/2019	EURJPY	1:30:00 PM	121.888	121.882			N/A
6/20/2019	EURJPY	3:30:00 PM	121.734	121.687			N/A

6/20/2019	EURJPY.fx	9:30:00 AM	121.327	121.326			N/A
6/20/2019	EURJPY.fx	11:30:00 AM	121.662	121.66			N/A
6/20/2019	EURJPY.fx	1:30:00 PM	121.89	121.879			N/A
6/20/2019	EURJPY.fx	3:30:00 PM	121.736	121.688			N/A
6/20/2019	EURMXN	9:30:00 AM	21.3886	21.4056			N/A
6/20/2019	EURMXN	11:30:00 AM	21.3996	21.4153			N/A
6/20/2019	EURMXN	1:30:00 PM	21.389	21.4077			N/A
6/20/2019	EURMXN	3:30:00 PM	21.3843	21.3924			N/A
6/20/2019	EURMXN.fx	9:30:00 AM	21.3968	21.3974			N/A
6/20/2019	EURMXN.fx	11:30:00 AM	21.4081	21.4069			N/A
6/20/2019	EURMXN.fx	1:30:00 PM	21.3974	21.3993			N/A
6/20/2019	EURMXN.fx	3:30:00 PM	21.3927	21.3883			N/A
6/20/2019	EURNOK	9:30:00 AM	9.731	9.7413			N/A
6/20/2019	EURNOK	11:30:00 AM	9.6689	9.6766			N/A
6/20/2019	EURNOK	1:30:00 PM	9.6717	9.6827			N/A
6/20/2019	EURNOK	3:30:00 PM	9.6573	9.6652			N/A
6/20/2019	EURNOK.fx	9:30:00 AM	9.73661	9.73553			N/A
6/20/2019	EURNOK.fx	11:30:00 AM	9.67444	9.67104			N/A
6/20/2019	EURNOK.fx	1:30:00 PM	9.67723	9.6771			N/A
6/20/2019	EURNOK.fx	3:30:00 PM	9.66125	9.66004			N/A
6/20/2019	EURNZD	9:30:00 AM	1.71321	1.71393			N/A
6/20/2019	EURNZD	11:30:00 AM	1.71382	1.71453			N/A
6/20/2019	EURNZD	1:30:00 PM	1.71526	1.71595			N/A
6/20/2019	EURNZD	3:30:00 PM	1.71541	1.71599			N/A
6/20/2019	EURNZD.fx	9:30:00 AM	1.71364	1.71351			N/A
6/20/2019	EURNZD.fx	11:30:00 AM	1.71423	1.71411			N/A
6/20/2019	EURNZD.fx	1:30:00 PM	1.71568	1.71551			N/A
6/20/2019	EURNZD.fx	3:30:00 PM	1.71577	1.71573			N/A
6/20/2019	EURPLN	9:30:00 AM	4.2559	4.2585			N/A
6/20/2019	EURPLN	11:30:00 AM	4.2565	4.2599			N/A
6/20/2019	EURPLN	1:30:00 PM	4.2558	4.2588			N/A
6/20/2019	EURPLN	3:30:00 PM	4.2524	4.2558			N/A
6/20/2019	EURPLN.fx	9:30:00 AM	4.25517	4.25922			N/A
6/20/2019	EURPLN.fx	11:30:00 AM	4.25592	4.26042			N/A

6/20/2019	EURPLN.fx	1:30:00 PM	4.25523	4.25922			N/A
6/20/2019	EURPLN.fx	3:30:00 PM					N/A
6/20/2019	EURRUB	9:30:00 AM					N/A
6/20/2019	EURRUB	11:30:00 AM	71.151	71.595			N/A
6/20/2019	EURRUB	1:30:00 PM	71.206	71.625			N/A
6/20/2019	EURRUB	3:30:00 PM	71.047	71.465			N/A
6/20/2019	EURSEK	9:30:00 AM	10.6424	10.6457			N/A
6/20/2019	EURSEK	11:30:00 AM	10.6312	10.6351			N/A
6/20/2019	EURSEK	1:30:00 PM	10.6431	10.6473			N/A
6/20/2019	EURSEK	3:30:00 PM	10.6299	10.6297			N/A
6/20/2019	EURSEK.fx	9:30:00 AM	10.64428	10.64413			N/A
6/20/2019	EURSEK.fx	11:30:00 AM	10.63292	10.63368			N/A
6/20/2019	EURSEK.fx	1:30:00 PM	10.64486	10.64531			N/A
6/20/2019	EURSEK.fx	3:30:00 PM	10.63146	10.62839			N/A
6/20/2019	EURSGD	9:30:00 AM	1.5316	1.5324			N/A
6/20/2019	EURSGD	11:30:00 AM	1.5323	1.5328			N/A
6/20/2019	EURSGD	1:30:00 PM	1.5334	1.534			N/A
6/20/2019	EURSGD	3:30:00 PM	1.5341	1.5341			N/A
6/20/2019	EURSGD.fx	9:30:00 AM	1.53198	1.53202			N/A
6/20/2019	EURSGD.fx	11:30:00 AM	1.53265	1.53236			N/A
6/20/2019	EURSGD.fx	1:30:00 PM	1.53377	1.5336			N/A
6/20/2019	EURSGD.fx	3:30:00 PM	1.53438	1.53376			N/A
6/20/2019	EURUSD	9:30:00 AM	1.12796	1.12797			N/A
6/20/2019	EURUSD	11:30:00 AM	1.12915	1.12923			N/A
6/20/2019	EURUSD	1:30:00 PM	1.13023	1.13012			N/A
6/20/2019	EURUSD	3:30:00 PM	1.13145	1.13086			N/A
6/20/2019	EURUSD.fx	9:30:00 AM	1.12816	1.12806			N/A
6/20/2019	EURUSD.fx	11:30:00 AM	1.12934	1.12933			N/A
6/20/2019	EURUSD.fx	1:30:00 PM	1.13043	1.13021			N/A
6/20/2019	EURUSD.fx	3:30:00 PM	1.13166	1.13098			N/A
6/20/2019	EURZAR	9:30:00 AM	16.0823	16.1002			N/A
6/20/2019	EURZAR	11:30:00 AM	16.0641	16.0799			N/A
6/20/2019	EURZAR	1:30:00 PM	16.0771	16.0934			N/A
6/20/2019	EURZAR	3:30:00 PM	16.104	16.118			N/A

6/20/2019	EURZAR.fx	9:30:00 AM	16.08234	16.10053			N/A
6/20/2019	EURZAR.fx	11:30:00 AM	16.06385	16.0804			N/A
6/20/2019	EURZAR.fx	1:30:00 PM	16.07617	16.09435			N/A
6/20/2019	EURZAR.fx	3:30:00 PM	16.10238	16.11876			N/A
6/20/2019	GBPAUD	9:30:00 AM	1.83969	1.84028			N/A
6/20/2019	GBPAUD	11:30:00 AM	1.83813	1.8383			N/A
6/20/2019	GBPAUD	1:30:00 PM	1.8378	1.83832			N/A
6/20/2019	GBPAUD	3:30:00 PM	1.82927	1.82969			N/A
6/20/2019	GBPAUD.fx	9:30:00 AM	1.84008	1.83988			N/A
6/20/2019	GBPAUD.fx	11:30:00 AM	1.83841	1.8379			N/A
6/20/2019	GBPAUD.fx	1:30:00 PM	1.8382	1.83792			N/A
6/20/2019	GBPAUD.fx	3:30:00 PM	1.82959	1.82931			N/A
6/20/2019	GBPCAD	9:30:00 AM	1.68085	1.6815			N/A
6/20/2019	GBPCAD	11:30:00 AM	1.6802	1.68068			N/A
6/20/2019	GBPCAD	1:30:00 PM	1.67777	1.67826			N/A
6/20/2019	GBPCAD	3:30:00 PM	1.66789	1.66824			N/A
6/20/2019	GBPCAD.fx	9:30:00 AM	1.68124	1.68111			N/A
6/20/2019	GBPCAD.fx	11:30:00 AM	1.68058	1.6803			N/A
6/20/2019	GBPCAD.fx	1:30:00 PM	1.67817	1.67785			N/A
6/20/2019	GBPCAD.fx	3:30:00 PM	1.66821	1.66786			N/A
6/20/2019	GBPCHF	9:30:00 AM	1.25646	1.25661			N/A
6/20/2019	GBPCHF	11:30:00 AM	1.25636	1.25641			N/A
6/20/2019	GBPCHF	1:30:00 PM	1.25406	1.25429			N/A
6/20/2019	GBPCHF	3:30:00 PM	1.24837	1.24764			N/A
6/20/2019	GBPCHF.fx	9:30:00 AM	1.25666	1.25641			N/A
6/20/2019	GBPCHF.fx	11:30:00 AM	1.25646	1.25621			N/A
6/20/2019	GBPCHF.fx	1:30:00 PM	1.25426	1.25409			N/A
6/20/2019	GBPCHF.fx	3:30:00 PM	1.24849	1.24744			N/A
6/20/2019	GBPCZK	9:30:00 AM	28.82	28.84			N/A
6/20/2019	GBPCZK	11:30:00 AM	28.826	28.841			N/A
6/20/2019	GBPCZK	1:30:00 PM	28.792	28.812			N/A
6/20/2019	GBPCZK	3:30:00 PM	28.686	28.699			N/A
6/20/2019	GBPDKK	9:30:00 AM	8.407	8.417			N/A
6/20/2019	GBPDKK	11:30:00 AM	8.407	8.416			N/A

6/20/2019	GBPDKK	1:30:00 PM	8.396	8.406			N/A
6/20/2019	GBPDKK	3:30:00 PM	8.367	8.374			N/A
6/20/2019	GBPDKK.fx	9:30:00 AM	8.4049	8.417			N/A
6/20/2019	GBPDKK.fx	11:30:00 AM	8.4052	8.4168			N/A
6/20/2019	GBPDKK.fx	1:30:00 PM	8.3942	8.4062			N/A
6/20/2019	GBPDKK.fx	3:30:00 PM	8.3635	8.3743			N/A
6/20/2019	GBPHKD	9:30:00 AM	9.9268	9.9304			N/A
6/20/2019	GBPHKD	11:30:00 AM	9.9377	9.9414			N/A
6/20/2019	GBPHKD	1:30:00 PM	9.9353	9.9386			N/A
6/20/2019	GBPHKD	3:30:00 PM	9.9067	9.912			N/A
6/20/2019	GBPHUF	9:30:00 AM	364	364.33			N/A
6/20/2019	GBPHUF	11:30:00 AM	364.47	364.88			N/A
6/20/2019	GBPHUF	1:30:00 PM	364.3	364.73			N/A
6/20/2019	GBPHUF	3:30:00 PM	362.33	362.67			N/A
6/20/2019	GBPJPY	9:30:00 AM	136.661	136.685			N/A
6/20/2019	GBPJPY	11:30:00 AM	137.051	137.07			N/A
6/20/2019	GBPJPY	1:30:00 PM	137.125	137.151			N/A
6/20/2019	GBPJPY	3:30:00 PM	136.459	136.43			N/A
6/20/2019	GBPJPY.fx	9:30:00 AM	136.68	136.666			N/A
6/20/2019	GBPJPY.fx	11:30:00 AM	137.065	137.05			N/A
6/20/2019	GBPJPY.fx	1:30:00 PM	137.145	137.132			N/A
6/20/2019	GBPJPY.fx	3:30:00 PM	136.458	136.419			N/A
6/20/2019	GBPMXN	9:30:00 AM	24.0907	24.102			N/A
6/20/2019	GBPMXN	11:30:00 AM	24.0993	24.1114			N/A
6/20/2019	GBPMXN	1:30:00 PM	24.062	24.0747			N/A
6/20/2019	GBPMXN	3:30:00 PM	23.9584	23.9719			N/A
6/20/2019	GBPNOK	9:30:00 AM	10.9635	10.9711			N/A
6/20/2019	GBPNOK	11:30:00 AM	10.8952	10.8989			N/A
6/20/2019	GBPNOK	1:30:00 PM	10.8832	10.8931			N/A
6/20/2019	GBPNOK	3:30:00 PM	10.8274	10.8326			N/A
6/20/2019	GBPNOK.fx	9:30:00 AM	10.96836	10.96619			N/A
6/20/2019	GBPNOK.fx	11:30:00 AM	10.89928	10.89396			N/A
6/20/2019	GBPNOK.fx	1:30:00 PM	10.88806	10.88794			N/A
6/20/2019	GBPNOK.fx	3:30:00 PM	10.8293	10.82795			N/A

6/20/2019	GBPNZD	9:30:00 AM	1.93003	1.93046			N/A
6/20/2019	GBPNZD	11:30:00 AM	1.93102	1.93126			N/A
6/20/2019	GBPNZD	1:30:00 PM	1.92996	1.93056			N/A
6/20/2019	GBPNZD	3:30:00 PM	1.92332	1.9234			N/A
6/20/2019	GBPNZD.fx	9:30:00 AM	1.93038	1.93009			N/A
6/20/2019	GBPNZD.fx	11:30:00 AM	1.93122	1.93091			N/A
6/20/2019	GBPNZD.fx	1:30:00 PM	1.93033	1.93018			N/A
6/20/2019	GBPNZD.fx	3:30:00 PM	1.92337	1.92305			N/A
6/20/2019	GBPPLN	9:30:00 AM	4.7953	4.7962			N/A
6/20/2019	GBPPLN	11:30:00 AM	4.7968	4.7975			N/A
6/20/2019	GBPPLN	1:30:00 PM	4.7893	4.7905			N/A
6/20/2019	GBPPLN	3:30:00 PM	4.7686	4.7689			N/A
6/20/2019	GBPPLN.fx	9:30:00 AM	4.79291	4.79854			N/A
6/20/2019	GBPPLN.fx	11:30:00 AM	4.79405	4.79979			N/A
6/20/2019	GBPPLN.fx	1:30:00 PM	4.78696	4.79256			N/A
6/20/2019	GBPPLN.fx	3:30:00 PM	4.76557	4.77134			N/A
6/20/2019	GBPSEK	9:30:00 AM	11.9864	11.9944			N/A
6/20/2019	GBPSEK	11:30:00 AM	11.9751	11.9821			N/A
6/20/2019	GBPSEK	1:30:00 PM	11.9723	11.9801			N/A
6/20/2019	GBPSEK	3:30:00 PM	11.9116	11.9156			N/A
6/20/2019	GBPSEK.fx	9:30:00 AM	11.98243	11.99836			N/A
6/20/2019	GBPSEK.fx	11:30:00 AM	11.97034	11.98648			N/A
6/20/2019	GBPSEK.fx	1:30:00 PM	11.96854	11.98387			N/A
6/20/2019	GBPSEK.fx	3:30:00 PM	11.90578	11.91993			N/A
6/20/2019	GBPSGD	9:30:00 AM	1.7255	1.726			N/A
6/20/2019	GBPSGD	11:30:00 AM	1.7266	1.7265			N/A
6/20/2019	GBPSGD	1:30:00 PM	1.7254	1.7259			N/A
6/20/2019	GBPSGD	3:30:00 PM	1.7193	1.7197			N/A
6/20/2019	GBPSGD.fx	9:30:00 AM	1.72365	1.72778			N/A
6/20/2019	GBPSGD.fx	11:30:00 AM	1.72445	1.72832			N/A
6/20/2019	GBPSGD.fx	1:30:00 PM	1.72356	1.72769			N/A
6/20/2019	GBPSGD.fx	3:30:00 PM	1.7174	1.72151			N/A
6/20/2019	GBPUSD	9:30:00 AM	1.27087	1.27064			N/A
6/20/2019	GBPUSD	11:30:00 AM	1.27236	1.27217			N/A

6/20/2019	GBPUSD	1:30:00 PM	1.27187	1.27168			N/A
6/20/2019	GBPUSD	3:30:00 PM	1.26818	1.26799			N/A
6/20/2019	GBPUSD.fx	9:30:00 AM	1.27093	1.27059			N/A
6/20/2019	GBPUSD.fx	11:30:00 AM	1.27242	1.27213			N/A
6/20/2019	GBPUSD.fx	1:30:00 PM	1.27192	1.27162			N/A
6/20/2019	GBPUSD.fx	3:30:00 PM	1.26822	1.26794			N/A
6/20/2019	GBPZAR	9:30:00 AM	18.1135	18.1402			N/A
6/20/2019	GBPZAR	11:30:00 AM	18.095	18.1191			N/A
6/20/2019	GBPZAR	1:30:00 PM	18.0865	18.1095			N/A
6/20/2019	GBPZAR	3:30:00 PM	18.0463	18.0688			N/A
6/20/2019	GBPZAR.fx	9:30:00 AM	18.1211	18.1327			N/A
6/20/2019	GBPZAR.fx	11:30:00 AM	18.1022	18.1116			N/A
6/20/2019	GBPZAR.fx	1:30:00 PM	18.0928	18.103			N/A
6/20/2019	GBPZAR.fx	3:30:00 PM	18.0532	18.0616			N/A
6/20/2019	GOLD	9:30:00 AM	1385.24	1384.96			N/A
6/20/2019	GOLD	11:30:00 AM	1381.36	1380.77			N/A
6/20/2019	GOLD	1:30:00 PM	1381.16	1381.13			N/A
6/20/2019	GOLD	3:30:00 PM	1386.41	1385.68			N/A
6/20/2019	HKDJPY	9:30:00 AM					N/A
6/20/2019	HKDJPY	11:30:00 AM	13.78	13.79			N/A
6/20/2019	HKDJPY	1:30:00 PM	13.8	13.81			N/A
6/20/2019	HKDJPY	3:30:00 PM	13.76	13.77			N/A
6/20/2019	HKDJPY.fx	9:30:00 AM	13.758	13.765			N/A
6/20/2019	HKDJPY.fx	11:30:00 AM	13.781	13.787			N/A
6/20/2019	HKDJPY.fx	1:30:00 PM	13.793	13.8			N/A
6/20/2019	HKDJPY.fx	3:30:00 PM	13.763	13.763			N/A
6/20/2019	HUFJPY	9:30:00 AM	0.3752	0.3755			N/A
6/20/2019	HUFJPY	11:30:00 AM	0.3759	0.3762			N/A
6/20/2019	HUFJPY	1:30:00 PM	0.3761	0.3765			N/A
6/20/2019	HUFJPY	3:30:00 PM	0.3764	0.3768			N/A
6/20/2019	JP225.i	9:30:00 AM	21455.26	21463.21			N/A
6/20/2019	JP225.i	11:30:00 AM	21515.26	21526.09			N/A
6/20/2019	JP225.i	1:30:00 PM	21610.26	21625.26			N/A
6/20/2019	JP225.i	3:30:00 PM	21590.26	21605.26			N/A

6/20/2019	MXNJPY	9:30:00 AM	5.67	5.68			N/A
6/20/2019	MXNJPY	11:30:00 AM	5.68	5.69			N/A
6/20/2019	MXNJPY	1:30:00 PM	5.7	5.71			N/A
6/20/2019	MXNJPY	3:30:00 PM	5.69	5.7			N/A
6/20/2019	NASDAQ.i	9:30:00 AM					N/A
6/20/2019	NASDAQ.i	11:30:00 AM					N/A
6/20/2019	NASDAQ.i	1:30:00 PM					N/A
6/20/2019	NASDAQ.i	3:30:00 PM					N/A
6/20/2019	NOKJPY	9:30:00 AM	12.45	12.48			N/A
6/20/2019	NOKJPY	11:30:00 AM	12.56	12.6			N/A
6/20/2019	NOKJPY	1:30:00 PM	12.58	12.61			N/A
6/20/2019	NOKJPY	3:30:00 PM	12.59	12.61			N/A
6/20/2019	NOKJPY.fx	9:30:00 AM	12.459	12.464			N/A
6/20/2019	NOKJPY.fx	11:30:00 AM	12.577	12.579			N/A
6/20/2019	NOKJPY.fx	1:30:00 PM	12.591	12.598			N/A
6/20/2019	NOKJPY.fx	3:30:00 PM	12.598	12.601			N/A
6/20/2019	NZDCAD	9:30:00 AM	0.87064	0.87122			N/A
6/20/2019	NZDCAD	11:30:00 AM	0.86988	0.8705			N/A
6/20/2019	NZDCAD	1:30:00 PM	0.86908	0.86959			N/A
6/20/2019	NZDCAD	3:30:00 PM	0.86708	0.86764			N/A
6/20/2019	NZDCAD.fx	9:30:00 AM	0.87097	0.87089			N/A
6/20/2019	NZDCAD.fx	11:30:00 AM	0.87021	0.87016			N/A
6/20/2019	NZDCAD.fx	1:30:00 PM	0.86941	0.86926			N/A
6/20/2019	NZDCAD.fx	3:30:00 PM	0.86738	0.86733			N/A
6/20/2019	NZDCHF	9:30:00 AM	0.65064	0.65131			N/A
6/20/2019	NZDCHF	11:30:00 AM	0.65025	0.6509			N/A
6/20/2019	NZDCHF	1:30:00 PM	0.64948	0.65006			N/A
6/20/2019	NZDCHF	3:30:00 PM	0.64872	0.64896			N/A
6/20/2019	NZDCHF.fx	9:30:00 AM	0.65097	0.65096			N/A
6/20/2019	NZDCHF.fx	11:30:00 AM	0.65058	0.65055			N/A
6/20/2019	NZDCHF.fx	1:30:00 PM	0.64982	0.64971			N/A
6/20/2019	NZDCHF.fx	3:30:00 PM	0.64898	0.64861			N/A
6/20/2019	NZDCZK	9:30:00 AM	14.929	14.94			N/A
6/20/2019	NZDCZK	11:30:00 AM	14.924	14.936			N/A

6/20/2019	NZDCZK	1:30:00 PM	14.916	14.926			N/A
6/20/2019	NZDCZK	3:30:00 PM	14.911	14.921			N/A
6/20/2019	NZDDKK	9:30:00 AM					N/A
6/20/2019	NZDDKK	11:30:00 AM					N/A
6/20/2019	NZDDKK	1:30:00 PM	4.35	4.353			N/A
6/20/2019	NZDDKK	3:30:00 PM					N/A
6/20/2019	NZDHKD	9:30:00 AM	5.1415	5.1442			N/A
6/20/2019	NZDHKD	11:30:00 AM	5.1444	5.1473			N/A
6/20/2019	NZDHKD	1:30:00 PM	5.1469	5.1488			N/A
6/20/2019	NZDHKD	3:30:00 PM	5.1506	5.1514			N/A
6/20/2019	NZDHUF	9:30:00 AM	188.53	188.77			N/A
6/20/2019	NZDHUF	11:30:00 AM	188.68	188.96			N/A
6/20/2019	NZDHUF	1:30:00 PM	188.71	188.97			N/A
6/20/2019	NZDHUF	3:30:00 PM	188.31	188.59			N/A
6/20/2019	NZDJPY	9:30:00 AM	70.769	70.84			N/A
6/20/2019	NZDJPY	11:30:00 AM	70.939	71.008			N/A
6/20/2019	NZDJPY	1:30:00 PM	71.018	71.079			N/A
6/20/2019	NZDJPY	3:30:00 PM	70.916	70.959			N/A
6/20/2019	NZDJPY.fx	9:30:00 AM	70.802	70.808			N/A
6/20/2019	NZDJPY.fx	11:30:00 AM	70.969	70.977			N/A
6/20/2019	NZDJPY.fx	1:30:00 PM	71.049	71.047			N/A
6/20/2019	NZDJPY.fx	3:30:00 PM	70.945	70.928			N/A
6/20/2019	NZDMXN	9:30:00 AM	12.4792	12.4826			N/A
6/20/2019	NZDMXN	11:30:00 AM	12.4795	12.4809			N/A
6/20/2019	NZDMXN	1:30:00 PM	12.4658	12.4707			N/A
6/20/2019	NZDMXN	3:30:00 PM	12.4576	12.4587			N/A
6/20/2019	NZDNOK	9:30:00 AM	5.6776	5.6808			N/A
6/20/2019	NZDNOK	11:30:00 AM	5.6364	5.6387			N/A
6/20/2019	NZDNOK	1:30:00 PM	5.6372	5.6401			N/A
6/20/2019	NZDNOK	3:30:00 PM	5.6262	5.6273			N/A
6/20/2019	NZDPLN	9:30:00 AM	2.4829	2.4844			N/A
6/20/2019	NZDPLN	11:30:00 AM	2.4815	2.4829			N/A
6/20/2019	NZDPLN	1:30:00 PM	2.4801	2.4811			N/A
6/20/2019	NZDPLN	3:30:00 PM	2.477	2.4785			N/A

6/20/2019	NZDSEK	9:30:00 AM	6.205	6.21			N/A
6/20/2019	NZDSEK	11:30:00 AM	6.1958	6.2027			N/A
6/20/2019	NZDSEK	1:30:00 PM	6.1991	6.205			N/A
6/20/2019	NZDSEK	3:30:00 PM	6.1897	6.1939			N/A
6/20/2019	NZDSGD	9:30:00 AM	0.8938	0.8944			N/A
6/20/2019	NZDSGD	11:30:00 AM	0.8938	0.8943			N/A
6/20/2019	NZDSGD	1:30:00 PM	0.8937	0.8943			N/A
6/20/2019	NZDSGD	3:30:00 PM	0.8939	0.8943			N/A
6/20/2019	NZDSGD.fx	9:30:00 AM	0.89378	0.89431			N/A
6/20/2019	NZDSGD.fx	11:30:00 AM	0.89377	0.89422			N/A
6/20/2019	NZDSGD.fx	1:30:00 PM	0.89378	0.89421			N/A
6/20/2019	NZDSGD.fx	3:30:00 PM	0.8939	0.89435			N/A
6/20/2019	NZDUSD	9:30:00 AM	0.65824	0.65833			N/A
6/20/2019	NZDUSD	11:30:00 AM	0.65872	0.65884			N/A
6/20/2019	NZDUSD	1:30:00 PM	0.65885	0.65881			N/A
6/20/2019	NZDUSD	3:30:00 PM	0.65938	0.65919			N/A
6/20/2019	NZDUSD.fx	9:30:00 AM	0.65831	0.65835			N/A
6/20/2019	NZDUSD.fx	11:30:00 AM	0.6588	0.65886			N/A
6/20/2019	NZDUSD.fx	1:30:00 PM	0.65891	0.65883			N/A
6/20/2019	NZDUSD.fx	3:30:00 PM	0.65945	0.65927			N/A
6/20/2019	NZDZAR	9:30:00 AM	9.3774	9.3939			N/A
6/20/2019	NZDZAR	11:30:00 AM	9.36	9.3748			N/A
6/20/2019	NZDZAR	1:30:00 PM	9.3635	9.3777			N/A
6/20/2019	NZDZAR	3:30:00 PM	9.3736	9.3901			N/A
6/20/2019	SEKJPY	9:30:00 AM	11.4	11.41			N/A
6/20/2019	SEKJPY	11:30:00 AM	11.44	11.45			N/A
6/20/2019	SEKJPY	1:30:00 PM	11.45	11.46			N/A
6/20/2019	SEKJPY	3:30:00 PM	11.45	11.46			N/A
6/20/2019	SEKJPY.fx	9:30:00 AM	11.389	11.408			N/A
6/20/2019	SEKJPY.fx	11:30:00 AM	11.432	11.451			N/A
6/20/2019	SEKJPY.fx	1:30:00 PM	11.442	11.458			N/A
6/20/2019	SEKJPY.fx	3:30:00 PM	11.444	11.457			N/A
6/20/2019	SGDJPY	9:30:00 AM	79.17	79.19			N/A
6/20/2019	SGDJPY	11:30:00 AM	79.4	79.39			N/A

6/20/2019	SGDJPY	1:30:00 PM	79.48	79.47			N/A
6/20/2019	SGDJPY	3:30:00 PM	79.32	79.32			N/A
6/20/2019	SILVER	9:30:00 AM	15.18	15.55			N/A
6/20/2019	SILVER	11:30:00 AM	15.17	15.54			N/A
6/20/2019	SILVER	1:30:00 PM	15.17	15.54			N/A
6/20/2019	SILVER	3:30:00 PM	15.21	15.57			N/A
6/20/2019	SPX500.i	9:30:00 AM	2945.16	2945.46			N/A
6/20/2019	SPX500.i	11:30:00 AM	2949.66	2950.46			N/A
6/20/2019	SPX500.i	1:30:00 PM	2954.51	2955.21			N/A
6/20/2019	SPX500.i	3:30:00 PM	2957.72	2958.88			N/A
6/20/2019	UK100.i	9:30:00 AM	7437.11	7437.94			N/A
6/20/2019	UK100.i	11:30:00 AM	7429.19	7427.36			N/A
6/20/2019	UK100.i	1:30:00 PM	7442.19	7443.44			N/A
6/20/2019	UK100.i	3:30:00 PM	7466.94	7467.86			N/A
6/20/2019	USDCAD	9:30:00 AM	1.32311	1.32295			N/A
6/20/2019	USDCAD	11:30:00 AM	1.32091	1.32094			N/A
6/20/2019	USDCAD	1:30:00 PM	1.31946	1.3196			N/A
6/20/2019	USDCAD	3:30:00 PM	1.3157	1.31538			N/A
6/20/2019	USDCAD.fx	9:30:00 AM	1.32314	1.32291			N/A
6/20/2019	USDCAD.fx	11:30:00 AM	1.32095	1.32091			N/A
6/20/2019	USDCAD.fx	1:30:00 PM	1.3195	1.31956			N/A
6/20/2019	USDCAD.fx	3:30:00 PM	1.31572	1.31535			N/A
6/20/2019	USDCHF	9:30:00 AM	0.98881	0.9888			N/A
6/20/2019	USDCHF	11:30:00 AM	0.9875	0.98749			N/A
6/20/2019	USDCHF	1:30:00 PM	0.98613	0.98625			N/A
6/20/2019	USDCHF	3:30:00 PM	0.98464	0.98387			N/A
6/20/2019	USDCHF.fx	9:30:00 AM	0.98886	0.98874			N/A
6/20/2019	USDCHF.fx	11:30:00 AM	0.98754	0.98744			N/A
6/20/2019	USDCHF.fx	1:30:00 PM	0.98618	0.98617			N/A
6/20/2019	USDCHF.fx	3:30:00 PM	0.98457	0.98382			N/A
6/20/2019	USDCZK	9:30:00 AM	22.697	22.718			N/A
6/20/2019	USDCZK	11:30:00 AM	22.672	22.695			N/A
6/20/2019	USDCZK	1:30:00 PM	22.659	22.678			N/A
6/20/2019	USDCZK	3:30:00 PM	22.636	22.649			N/A

6/20/2019	USDCZK.fx	9:30:00 AM	22.7051	22.7101			N/A
6/20/2019	USDCZK.fx	11:30:00 AM	22.6815	22.6861			N/A
6/20/2019	USDCZK.fx	1:30:00 PM	22.6683	22.669			N/A
6/20/2019	USDCZK.fx	3:30:00 PM	22.6413	22.6417			N/A
6/20/2019	USDDKK	9:30:00 AM	6.6178	6.6211			N/A
6/20/2019	USDDKK	11:30:00 AM	6.61	6.6138			N/A
6/20/2019	USDDKK	1:30:00 PM	6.6047	6.6074			N/A
6/20/2019	USDDKK	3:30:00 PM	6.6002	6.6015			N/A
6/20/2019	USDDKK.fx	9:30:00 AM	6.61826	6.61917			N/A
6/20/2019	USDDKK.fx	11:30:00 AM	6.61046	6.61174			N/A
6/20/2019	USDDKK.fx	1:30:00 PM	6.60518	6.60536			N/A
6/20/2019	USDDKK.fx	3:30:00 PM	6.60048	6.59876			N/A
6/20/2019	USDHKD	9:30:00 AM					N/A
6/20/2019	USDHKD	11:30:00 AM	7.8154	7.815			N/A
6/20/2019	USDHKD	1:30:00 PM	7.815	7.8154			N/A
6/20/2019	USDHKD	3:30:00 PM	7.8166	7.8169			N/A
6/20/2019	USDHKD.fx	9:30:00 AM					N/A
6/20/2019	USDHKD.fx	11:30:00 AM	7.81537	7.81502			N/A
6/20/2019	USDHKD.fx	1:30:00 PM	7.81493	7.81552			N/A
6/20/2019	USDHKD.fx	3:30:00 PM	7.81647	7.81698			N/A
6/20/2019	USDHUF	9:30:00 AM	286.51	286.88			N/A
6/20/2019	USDHUF	11:30:00 AM	286.67	287.13			N/A
6/20/2019	USDHUF	1:30:00 PM	286.55	286.99			N/A
6/20/2019	USDHUF	3:30:00 PM	285.97	286.28			N/A
6/20/2019	USDHUF.fx	9:30:00 AM	286.709	286.667			N/A
6/20/2019	USDHUF.fx	11:30:00 AM	286.869	286.927			N/A
6/20/2019	USDHUF.fx	1:30:00 PM	286.769	286.787			N/A
6/20/2019	USDHUF.fx	3:30:00 PM	286.095	286.088			N/A
6/20/2019	USDINR	9:30:00 AM	64.57	74.56			N/A
6/20/2019	USDINR	11:30:00 AM	64.57	74.57			N/A
6/20/2019	USDINR	1:30:00 PM					N/A
6/20/2019	USDINR	3:30:00 PM					N/A
6/20/2019	USDJPY	9:30:00 AM	107.549	107.552			N/A
6/20/2019	USDJPY	11:30:00 AM	107.728	107.733			N/A

6/20/2019	USDJPY	1:30:00 PM	107.829	107.837			N/A
6/20/2019	USDJPY	3:30:00 PM	107.627	107.569			N/A
6/20/2019	USDJPY.fx	9:30:00 AM	107.554	107.545			N/A
6/20/2019	USDJPY.fx	11:30:00 AM	107.733	107.727			N/A
6/20/2019	USDJPY.fx	1:30:00 PM	107.835	107.83			N/A
6/20/2019	USDJPY.fx	3:30:00 PM	107.628	107.563			N/A
6/20/2019	USDMXN	9:30:00 AM	18.965	18.97			N/A
6/20/2019	USDMXN	11:30:00 AM	18.954	18.958			N/A
6/20/2019	USDMXN	1:30:00 PM	18.928	18.935			N/A
6/20/2019	USDMXN	3:30:00 PM	18.909	18.911			N/A
6/20/2019	USDMXN.f	9:30:00 AM					N/A
6/20/2019	USDMXN.f	11:30:00 AM					N/A
6/20/2019	USDMXN.f	1:30:00 PM					N/A
6/20/2019	USDMXN.f	3:30:00 PM					N/A
6/20/2019	USDNOK	9:30:00 AM	8.6276	8.6349			N/A
6/20/2019	USDNOK	11:30:00 AM	8.5631	8.5672			N/A
6/20/2019	USDNOK	1:30:00 PM	8.558	8.5661			N/A
6/20/2019	USDNOK	3:30:00 PM	8.5399	8.5428			N/A
6/20/2019	USDNOK.fx	9:30:00 AM	8.63168	8.63019			N/A
6/20/2019	USDNOK.fx	11:30:00 AM	8.56715	8.5628			N/A
6/20/2019	USDNOK.fx	1:30:00 PM	8.56208	8.56168			N/A
6/20/2019	USDNOK.fx	3:30:00 PM	8.54212	8.53828			N/A
6/20/2019	USDPLN	9:30:00 AM	3.7731	3.7743			N/A
6/20/2019	USDPLN	11:30:00 AM	3.7698	3.7714			N/A
6/20/2019	USDPLN	1:30:00 PM	3.7661	3.7667			N/A
6/20/2019	USDPLN	3:30:00 PM	3.7607	3.7601			N/A
6/20/2019	USDPLN.fx	9:30:00 AM	3.7723	3.77519			N/A
6/20/2019	USDPLN.fx	11:30:00 AM	3.76899	3.77222			N/A
6/20/2019	USDPLN.fx	1:30:00 PM	3.76529	3.76741			N/A
6/20/2019	USDPLN.fx	3:30:00 PM	3.75958	3.76125			N/A
6/20/2019	USDRUB	9:30:00 AM					N/A
6/20/2019	USDRUB	11:30:00 AM	63.124	63.521			N/A
6/20/2019	USDRUB	1:30:00 PM	63.112	63.499			N/A
6/20/2019	USDRUB	3:30:00 PM	62.925	63.299			N/A

6/20/2019	USDSEK	9:30:00 AM	9.4326	9.4354			N/A
6/20/2019	USDSEK	11:30:00 AM	9.4125	9.4163			N/A
6/20/2019	USDSEK	1:30:00 PM	9.4152	9.4184			N/A
6/20/2019	USDSEK	3:30:00 PM	9.3944	9.3951			N/A
6/20/2019	USDSEK.fx	9:30:00 AM	9.43541	9.43347			N/A
6/20/2019	USDSEK.fx	11:30:00 AM	9.41534	9.41448			N/A
6/20/2019	USDSEK.fx	1:30:00 PM	9.41773	9.41647			N/A
6/20/2019	USDSEK.fx	3:30:00 PM	9.39631	9.39283			N/A
6/20/2019	USDSGD	9:30:00 AM	1.3579	1.3582			N/A
6/20/2019	USDSGD	11:30:00 AM	1.3568	1.357			N/A
6/20/2019	USDSGD	1:30:00 PM	1.3567	1.357			N/A
6/20/2019	USDSGD	3:30:00 PM	1.3558	1.3561			N/A
6/20/2019	USDSGD.fx	9:30:00 AM	1.35781	1.35825			N/A
6/20/2019	USDSGD.fx	11:30:00 AM	1.35686	1.35711			N/A
6/20/2019	USDSGD.fx	1:30:00 PM	1.35666	1.35709			N/A
6/20/2019	USDSGD.fx	3:30:00 PM	1.35574	1.35616			N/A
6/20/2019	USDZAR	9:30:00 AM	14.2569	14.2721			N/A
6/20/2019	USDZAR	11:30:00 AM	14.2239	14.2375			N/A
6/20/2019	USDZAR	1:30:00 PM	14.2233	14.237			N/A
6/20/2019	USDZAR	3:30:00 PM	14.2345	14.248			N/A
6/20/2019	USDZAR.fx	9:30:00 AM	14.26327	14.26474			N/A
6/20/2019	USDZAR.fx	11:30:00 AM	14.23051	14.23153			N/A
6/20/2019	USDZAR.fx	1:30:00 PM	14.22883	14.23117			N/A
6/20/2019	USDZAR.fx	3:30:00 PM	14.24107	14.24225			N/A
6/20/2019	XAUUSD	9:30:00 AM	1385.25	1384.94			N/A
6/20/2019	XAUUSD	11:30:00 AM	1381.39	1380.78			N/A
6/20/2019	XAUUSD	1:30:00 PM	1381.16	1381.13			N/A
6/20/2019	XAUUSD	3:30:00 PM	1386.43	1385.68			N/A
6/20/2019	ZARJPY	9:30:00 AM					N/A
6/20/2019	ZARJPY	11:30:00 AM	7.55	7.57			N/A
6/20/2019	ZARJPY	1:30:00 PM	7.55	7.58			N/A
6/20/2019	ZARJPY	3:30:00 PM	7.54	7.56			N/A
6/20/2019	ZARJPY.fx	9:30:00 AM	7.538	7.541			N/A
6/20/2019	ZARJPY.fx	11:30:00 AM	7.568	7.571			N/A

6/20/2019	ZARJPY.fx	1:30:00 PM	7.576	7.579			N/A
6/20/2019	ZARJPY.fx	3:30:00 PM	7.553	7.556			N/A
6/21/2019	#AA	9:30:00 AM					N/A
6/21/2019	#AA	11:30:00 AM					N/A
6/21/2019	#AA	1:30:00 PM					N/A
6/21/2019	#AA	3:30:00 PM					N/A
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6/21/2019	#AABA	11:30:00 AM					N/A
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6/21/2019	#AABA	3:30:00 PM					N/A
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6/21/2019	#AAPL	3:30:00 PM					N/A
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6/21/2019	#ADBE	3:30:00 PM					N/A
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6/21/2019	#AIG	3:30:00 PM					N/A
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6/21/2019	#AMD	1:30:00 PM					N/A
6/21/2019	#AMD	3:30:00 PM					N/A
6/21/2019	#AMZN	9:30:00 AM					N/A
6/21/2019	#AMZN	11:30:00 AM					N/A
6/21/2019	#AMZN	1:30:00 PM					N/A
6/21/2019	#AMZN	3:30:00 PM					N/A

6/21/2019	#AXP	9:30:00 AM					N/A
6/21/2019	#AXP	11:30:00 AM					N/A
6/21/2019	#AXP	1:30:00 PM					N/A
6/21/2019	#AXP	3:30:00 PM					N/A
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6/21/2019	#BA	3:30:00 PM					N/A
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6/21/2019	#BABA	1:30:00 PM					N/A
6/21/2019	#BABA	3:30:00 PM					N/A
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6/21/2019	#BAC	11:30:00 AM					N/A
6/21/2019	#BAC	1:30:00 PM					N/A
6/21/2019	#BAC	3:30:00 PM					N/A
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6/21/2019	#BARC	11:30:00 AM					N/A
6/21/2019	#BARC	1:30:00 PM					N/A
6/21/2019	#BARC	3:30:00 PM					N/A
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6/21/2019	#BHP	11:30:00 AM					N/A
6/21/2019	#BHP	1:30:00 PM					N/A
6/21/2019	#BHP	3:30:00 PM					N/A
6/21/2019	#BIDU	9:30:00 AM					N/A
6/21/2019	#BIDU	11:30:00 AM					N/A
6/21/2019	#BIDU	1:30:00 PM					N/A
6/21/2019	#BIDU	3:30:00 PM					N/A
6/21/2019	#Bitcoin	9:30:00 AM	9694.15	9719.65			N/A
6/21/2019	#Bitcoin	11:30:00 AM	9742.6	9771.05			N/A
6/21/2019	#Bitcoin	1:30:00 PM	9800.91	9825.9			N/A
6/21/2019	#Bitcoin	3:30:00 PM	9812.6	9847.45			N/A
6/21/2019	#BK	9:30:00 AM					N/A
6/21/2019	#BK	11:30:00 AM					N/A

6/21/2019	#BK	1:30:00 PM					N/A
6/21/2019	#BK	3:30:00 PM					N/A
6/21/2019	#BLT	9:30:00 AM					N/A
6/21/2019	#BLT	11:30:00 AM					N/A
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6/21/2019	#BP	1:30:00 PM					N/A
6/21/2019	#BP	3:30:00 PM					N/A
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6/21/2019	#BTA	1:30:00 PM					N/A
6/21/2019	#BTA	3:30:00 PM					N/A
6/21/2019	#C	9:30:00 AM					N/A
6/21/2019	#C	11:30:00 AM					N/A
6/21/2019	#C	1:30:00 PM					N/A
6/21/2019	#C	3:30:00 PM					N/A
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6/21/2019	#CAT	11:30:00 AM					N/A
6/21/2019	#CAT	1:30:00 PM					N/A
6/21/2019	#CAT	3:30:00 PM					N/A
6/21/2019	#CHL	9:30:00 AM					N/A
6/21/2019	#CHL	11:30:00 AM					N/A
6/21/2019	#CHL	1:30:00 PM					N/A
6/21/2019	#CHL	3:30:00 PM					N/A
6/21/2019	#CL.f	9:30:00 AM	56.909	56.917			N/A
6/21/2019	#CL.f	11:30:00 AM	57.269	57.29			N/A
6/21/2019	#CL.f	1:30:00 PM	57.726	57.687			N/A
6/21/2019	#CL.f	3:30:00 PM	57.536	57.521			N/A
6/21/2019	#CMCSA	9:30:00 AM					N/A
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6/21/2019	AUDCAD	11:30:00 AM	0.91235	0.91306			N/A
6/21/2019	AUDCAD	1:30:00 PM	0.91152	0.91212			N/A
6/21/2019	AUDCAD	3:30:00 PM	0.91157	0.91189			N/A
6/21/2019	AUDCAD.fx	9:30:00 AM	0.91331	0.9132			N/A
6/21/2019	AUDCAD.fx	11:30:00 AM	0.91269	0.91272			N/A
6/21/2019	AUDCAD.fx	1:30:00 PM	0.91185	0.91178			N/A
6/21/2019	AUDCAD.fx	3:30:00 PM	0.9118	0.91155			N/A
6/21/2019	AUDCHF	9:30:00 AM	0.67994	0.68051			N/A
6/21/2019	AUDCHF	11:30:00 AM	0.67948	0.68018			N/A
6/21/2019	AUDCHF	1:30:00 PM	0.67899	0.67965			N/A
6/21/2019	AUDCHF	3:30:00 PM	0.67728	0.67787			N/A
6/21/2019	AUDCHF.fx	9:30:00 AM	0.68029	0.68016			N/A
6/21/2019	AUDCHF.fx	11:30:00 AM	0.67983	0.67983			N/A
6/21/2019	AUDCHF.fx	1:30:00 PM	0.67933	0.6793			N/A
6/21/2019	AUDCHF.fx	3:30:00 PM	0.67761	0.67753			N/A
6/21/2019	AUDCZK	9:30:00 AM	15.685	15.701			N/A
6/21/2019	AUDCZK	11:30:00 AM	15.654	15.672			N/A
6/21/2019	AUDCZK	1:30:00 PM	15.642	15.656			N/A
6/21/2019	AUDCZK	3:30:00 PM	15.606	15.621			N/A
6/21/2019	AUDDKK	9:30:00 AM	4.5778	4.5821			N/A
6/21/2019	AUDDKK	11:30:00 AM	4.5665	4.5713			N/A
6/21/2019	AUDDKK	1:30:00 PM	4.563	4.5672			N/A
6/21/2019	AUDDKK	3:30:00 PM	4.5541	4.5585			N/A
6/21/2019	AUDHKD	9:30:00 AM	5.4033	5.4066			N/A
6/21/2019	AUDHKD	11:30:00 AM	5.399	5.4021			N/A
6/21/2019	AUDHKD	1:30:00 PM	5.398	5.4013			N/A
6/21/2019	AUDHKD	3:30:00 PM	5.3936	5.3964			N/A
6/21/2019	AUDHUF	9:30:00 AM	198.01	198.17			N/A
6/21/2019	AUDHUF	11:30:00 AM	197.97	198.13			N/A

6/21/2019	AUDHUF	1:30:00 PM	197.96	198.17			N/A
6/21/2019	AUDHUF	3:30:00 PM	197.51	197.73			N/A
6/21/2019	AUDJPY	9:30:00 AM	74.253	74.298			N/A
6/21/2019	AUDJPY	11:30:00 AM	74.257	74.321			N/A
6/21/2019	AUDJPY	1:30:00 PM	74.306	74.373			N/A
6/21/2019	AUDJPY	3:30:00 PM	74.19	74.255			N/A
6/21/2019	AUDJPY.fx	9:30:00 AM	74.287	74.262			N/A
6/21/2019	AUDJPY.fx	11:30:00 AM	74.29	74.285			N/A
6/21/2019	AUDJPY.fx	1:30:00 PM	74.34	74.338			N/A
6/21/2019	AUDJPY.fx	3:30:00 PM	74.223	74.22			N/A
6/21/2019	AUDMXN	9:30:00 AM	13.168	13.174			N/A
6/21/2019	AUDMXN	11:30:00 AM	13.1455	13.1545			N/A
6/21/2019	AUDMXN	1:30:00 PM	13.1582	13.1657			N/A
6/21/2019	AUDMXN	3:30:00 PM	13.1573	13.1658			N/A
6/21/2019	AUDNOK	9:30:00 AM	5.9322	5.9369			N/A
6/21/2019	AUDNOK	11:30:00 AM	5.9173	5.9226			N/A
6/21/2019	AUDNOK	1:30:00 PM	5.9202	5.9245			N/A
6/21/2019	AUDNOK	3:30:00 PM	5.9086	5.9134			N/A
6/21/2019	AUDNOK.fx	9:30:00 AM	5.9338	5.9351			N/A
6/21/2019	AUDNOK.fx	11:30:00 AM	5.9188	5.9209			N/A
6/21/2019	AUDNOK.fx	1:30:00 PM	5.9217	5.9229			N/A
6/21/2019	AUDNOK.fx	3:30:00 PM	5.9101	5.9116			N/A
6/21/2019	AUDNZD	9:30:00 AM	1.05152	1.05237			N/A
6/21/2019	AUDNZD	11:30:00 AM	1.0524	1.05328			N/A
6/21/2019	AUDNZD	1:30:00 PM	1.05259	1.05341			N/A
6/21/2019	AUDNZD	3:30:00 PM	1.0526	1.05335			N/A
6/21/2019	AUDNZD.fx	9:30:00 AM	1.05197	1.05192			N/A
6/21/2019	AUDNZD.fx	11:30:00 AM	1.05284	1.05284			N/A
6/21/2019	AUDNZD.fx	1:30:00 PM	1.05304	1.05296			N/A
6/21/2019	AUDNZD.fx	3:30:00 PM	1.05302	1.0529			N/A
6/21/2019	AUDPLN	9:30:00 AM	2.6097	2.6127			N/A
6/21/2019	AUDPLN	11:30:00 AM	2.6062	2.6094			N/A
6/21/2019	AUDPLN	1:30:00 PM	2.6041	2.6068			N/A
6/21/2019	AUDPLN	3:30:00 PM	2.5975	2.6004			N/A

6/21/2019	AUDSEK	9:30:00 AM	6.5221	6.5251			N/A
6/21/2019	AUDSEK	11:30:00 AM	6.4959	6.4992			N/A
6/21/2019	AUDSEK	1:30:00 PM	6.4894	6.4915			N/A
6/21/2019	AUDSEK	3:30:00 PM	6.4861	6.489			N/A
6/21/2019	AUDSEK.fx	9:30:00 AM	6.5173	6.5297			N/A
6/21/2019	AUDSEK.fx	11:30:00 AM	6.4913	6.5036			N/A
6/21/2019	AUDSEK.fx	1:30:00 PM	6.4848	6.496			N/A
6/21/2019	AUDSEK.fx	3:30:00 PM	6.4814	6.4935			N/A
6/21/2019	AUDSGD	9:30:00 AM	0.9399	0.9401			N/A
6/21/2019	AUDSGD	11:30:00 AM	0.9388	0.9391			N/A
6/21/2019	AUDSGD	1:30:00 PM	0.9386	0.9389			N/A
6/21/2019	AUDSGD	3:30:00 PM	0.9373	0.9373			N/A
6/21/2019	AUDSGD.fx	9:30:00 AM	0.93994	0.93995			N/A
6/21/2019	AUDSGD.fx	11:30:00 AM	0.93886	0.93901			N/A
6/21/2019	AUDSGD.fx	1:30:00 PM	0.93872	0.93877			N/A
6/21/2019	AUDSGD.fx	3:30:00 PM	0.93741	0.93745			N/A
6/21/2019	AUDUSD	9:30:00 AM	0.69227	0.69227			N/A
6/21/2019	AUDUSD	11:30:00 AM	0.69172	0.69188			N/A
6/21/2019	AUDUSD	1:30:00 PM	0.69151	0.69158			N/A
6/21/2019	AUDUSD	3:30:00 PM	0.69064	0.69064			N/A
6/21/2019	AUDUSD.fx	9:30:00 AM	0.69231	0.69221			N/A
6/21/2019	AUDUSD.fx	11:30:00 AM	0.69177	0.69182			N/A
6/21/2019	AUDUSD.fx	1:30:00 PM	0.69156	0.69153			N/A
6/21/2019	AUDUSD.fx	3:30:00 PM	0.69068	0.69058			N/A
6/21/2019	AUDZAR	9:30:00 AM	9.9502	9.9598			N/A
6/21/2019	AUDZAR	11:30:00 AM	9.95	9.9619			N/A
6/21/2019	AUDZAR	1:30:00 PM	9.9301	9.9343			N/A
6/21/2019	AUDZAR	3:30:00 PM	9.8775	9.8916			N/A
6/21/2019	AUS200.i	9:30:00 AM	6661.9	6661			N/A
6/21/2019	AUS200.i	11:30:00 AM	6679.5	6680.9			N/A
6/21/2019	AUS200.i	1:30:00 PM	6673.5	6676.5			N/A
6/21/2019	AUS200.i	3:30:00 PM	6680.5	6680.49			N/A
6/21/2019	BCHUSD	9:30:00 AM	433.51	434.98			N/A
6/21/2019	BCHUSD	11:30:00 AM	434.51	436.24			N/A

6/21/2019	BCHUSD	1:30:00 PM	454.82	453.91			N/A
6/21/2019	BCHUSD	3:30:00 PM	446.18	447.96			N/A
6/21/2019	CADCHF	9:30:00 AM	0.74448	0.74518			N/A
6/21/2019	CADCHF	11:30:00 AM	0.74451	0.74518			N/A
6/21/2019	CADCHF	1:30:00 PM	0.74466	0.74529			N/A
6/21/2019	CADCHF	3:30:00 PM	0.74295	0.74342			N/A
6/21/2019	CADCHF.fx	9:30:00 AM	0.74482	0.74483			N/A
6/21/2019	CADCHF.fx	11:30:00 AM	0.74486	0.74483			N/A
6/21/2019	CADCHF.fx	1:30:00 PM	0.745	0.74494			N/A
6/21/2019	CADCHF.fx	3:30:00 PM	0.74328	0.74313			N/A
6/21/2019	CADCZK	9:30:00 AM	17.179	17.194			N/A
6/21/2019	CADCZK	11:30:00 AM	17.156	17.174			N/A
6/21/2019	CADCZK	1:30:00 PM	17.158	17.174			N/A
6/21/2019	CADCZK	3:30:00 PM	17.13	17.136			N/A
6/21/2019	CADDKK	9:30:00 AM	5.013	5.017			N/A
6/21/2019	CADDKK	11:30:00 AM	5.004	5.008			N/A
6/21/2019	CADDKK	1:30:00 PM					N/A
6/21/2019	CADDKK	3:30:00 PM	4.995	4.998			N/A
6/21/2019	CADHKD	9:30:00 AM	5.9172	5.9209			N/A
6/21/2019	CADHKD	11:30:00 AM	5.9168	5.9205			N/A
6/21/2019	CADHKD	1:30:00 PM	5.9212	5.9249			N/A
6/21/2019	CADHKD	3:30:00 PM	5.9195	5.9199			N/A
6/21/2019	CADHUF	9:30:00 AM	216.92	216.97			N/A
6/21/2019	CADHUF	11:30:00 AM	217	217.1			N/A
6/21/2019	CADHUF	1:30:00 PM	217.17	217.32			N/A
6/21/2019	CADHUF	3:30:00 PM	216.76	216.85			N/A
6/21/2019	CADJPY	9:30:00 AM	81.303	81.359			N/A
6/21/2019	CADJPY	11:30:00 AM	81.363	81.427			N/A
6/21/2019	CADJPY	1:30:00 PM	81.493	81.558			N/A
6/21/2019	CADJPY	3:30:00 PM	81.39	81.419			N/A
6/21/2019	CADJPY.fx	9:30:00 AM	81.335	81.325			N/A
6/21/2019	CADJPY.fx	11:30:00 AM	81.396	81.393			N/A
6/21/2019	CADJPY.fx	1:30:00 PM	81.528	81.524			N/A
6/21/2019	CADJPY.fx	3:30:00 PM	81.422	81.392			N/A

6/21/2019	CADMXN	9:30:00 AM	14.4207	14.4277			N/A
6/21/2019	CADMXN	11:30:00 AM	14.4046	14.4167			N/A
6/21/2019	CADMXN	1:30:00 PM	14.4322	14.4434			N/A
6/21/2019	CADMXN	3:30:00 PM	14.4358	14.4434			N/A
6/21/2019	CADNOK	9:30:00 AM	6.4944	6.4971			N/A
6/21/2019	CADNOK	11:30:00 AM	6.4826	6.4852			N/A
6/21/2019	CADNOK	1:30:00 PM	6.492	6.4963			N/A
6/21/2019	CADNOK	3:30:00 PM	6.4797	6.4809			N/A
6/21/2019	CADPLN	9:30:00 AM	2.8576	2.8595			N/A
6/21/2019	CADPLN	11:30:00 AM	2.8555	2.857			N/A
6/21/2019	CADPLN	1:30:00 PM	2.8561	2.8579			N/A
6/21/2019	CADPLN	3:30:00 PM	2.8492	2.8495			N/A
6/21/2019	CADSEK	9:30:00 AM	7.1393	7.1425			N/A
6/21/2019	CADSEK	11:30:00 AM	7.1155	7.1195			N/A
6/21/2019	CADSEK	1:30:00 PM	7.1154	7.1186			N/A
6/21/2019	CADSEK	3:30:00 PM	7.115	7.1147			N/A
6/21/2019	CADSGD	9:30:00 AM	1.0285	1.0288			N/A
6/21/2019	CADSGD	11:30:00 AM	1.0282	1.0285			N/A
6/21/2019	CADSGD	1:30:00 PM	1.0288	1.0291			N/A
6/21/2019	CADSGD	3:30:00 PM	1.0281	1.0283			N/A
6/21/2019	CADZAR	9:30:00 AM	10.8975	10.9066			N/A
6/21/2019	CADZAR	11:30:00 AM	10.9035	10.9171			N/A
6/21/2019	CADZAR	1:30:00 PM	10.892	10.8978			N/A
6/21/2019	CADZAR	3:30:00 PM	10.8392	10.8506			N/A
6/21/2019	CHFCZK	9:30:00 AM	23.07	23.08			N/A
6/21/2019	CHFCZK	11:30:00 AM	23.038	23.053			N/A
6/21/2019	CHFCZK	1:30:00 PM	23.035	23.049			N/A
6/21/2019	CHFCZK	3:30:00 PM	23.044	23.06			N/A
6/21/2019	CHFDKK	9:30:00 AM	6.732	6.734			N/A
6/21/2019	CHFDKK	11:30:00 AM	6.719	6.722			N/A
6/21/2019	CHFDKK	1:30:00 PM	6.719	6.722			N/A
6/21/2019	CHFDKK	3:30:00 PM	6.724	6.726			N/A
6/21/2019	CHFDKK.fx	9:30:00 AM	6.7303	6.7356			N/A
6/21/2019	CHFDKK.fx	11:30:00 AM	6.7176	6.7235			N/A

6/21/2019	CHFDKK.fx	1:30:00 PM	6.7177	6.7228			N/A
6/21/2019	CHFDKK.fx	3:30:00 PM	6.7224	6.7271			N/A
6/21/2019	CHFHKD	9:30:00 AM	7.9454	7.9485			N/A
6/21/2019	CHFHKD	11:30:00 AM	7.9439	7.9465			N/A
6/21/2019	CHFHKD	1:30:00 PM	7.9487	7.9522			N/A
6/21/2019	CHFHKD	3:30:00 PM	7.9625	7.9664			N/A
6/21/2019	CHFHUF	9:30:00 AM	291.17	291.38			N/A
6/21/2019	CHFHUF	11:30:00 AM	291.28	291.52			N/A
6/21/2019	CHFHUF	1:30:00 PM	291.46	291.8			N/A
6/21/2019	CHFHUF	3:30:00 PM	291.57	291.92			N/A
6/21/2019	CHFJPY	9:30:00 AM	109.161	109.218			N/A
6/21/2019	CHFJPY	11:30:00 AM	109.251	109.303			N/A
6/21/2019	CHFJPY	1:30:00 PM	109.397	109.466			N/A
6/21/2019	CHFJPY	3:30:00 PM	109.51	109.566			N/A
6/21/2019	CHFJPY.fx	9:30:00 AM	109.194	109.182			N/A
6/21/2019	CHFJPY.fx	11:30:00 AM	109.284	109.268			N/A
6/21/2019	CHFJPY.fx	1:30:00 PM	109.43	109.43			N/A
6/21/2019	CHFJPY.fx	3:30:00 PM	109.545	109.534			N/A
6/21/2019	CHFMXN	9:30:00 AM	19.361	19.3705			N/A
6/21/2019	CHFMXN	11:30:00 AM	19.3413	19.355			N/A
6/21/2019	CHFMXN	1:30:00 PM	19.3726	19.3871			N/A
6/21/2019	CHFMXN	3:30:00 PM	19.4226	19.4388			N/A
6/21/2019	CHFNOK	9:30:00 AM	8.7207	8.7281			N/A
6/21/2019	CHFNOK	11:30:00 AM	8.704	8.7118			N/A
6/21/2019	CHFNOK	1:30:00 PM	8.7152	8.7219			N/A
6/21/2019	CHFNOK	3:30:00 PM	8.7208	8.7271			N/A
6/21/2019	CHFNOK.fx	9:30:00 AM	8.724	8.72447			N/A
6/21/2019	CHFNOK.fx	11:30:00 AM	8.70749	8.70832			N/A
6/21/2019	CHFNOK.fx	1:30:00 PM	8.71865	8.71836			N/A
6/21/2019	CHFNOK.fx	3:30:00 PM	8.72424	8.72356			N/A
6/21/2019	CHFPLN	9:30:00 AM	3.8376	3.8398			N/A
6/21/2019	CHFPLN	11:30:00 AM	3.8347	3.8376			N/A
6/21/2019	CHFPLN	1:30:00 PM	3.8341	3.8368			N/A
6/21/2019	CHFPLN	3:30:00 PM	3.8347	3.837			N/A

6/21/2019	CHFPLN.fx	9:30:00 AM	3.83516	3.84215			N/A
6/21/2019	CHFPLN.fx	11:30:00 AM	3.83226	3.83984			N/A
6/21/2019	CHFPLN.fx	1:30:00 PM	3.83184	3.83905			N/A
6/21/2019	CHFPLN.fx	3:30:00 PM	3.83223	3.83949			N/A
6/21/2019	CHFSEK	9:30:00 AM	9.5866	9.5904			N/A
6/21/2019	CHFSEK	11:30:00 AM	9.5533	9.5576			N/A
6/21/2019	CHFSEK	1:30:00 PM	9.5517	9.5549			N/A
6/21/2019	CHFSEK	3:30:00 PM	9.5713	9.5738			N/A
6/21/2019	CHFSGD	9:30:00 AM	1.3817	1.382			N/A
6/21/2019	CHFSGD	11:30:00 AM	1.381	1.3814			N/A
6/21/2019	CHFSGD	1:30:00 PM	1.3818	1.3822			N/A
6/21/2019	CHFSGD	3:30:00 PM	1.3834	1.3838			N/A
6/21/2019	CHFSGD.fx	9:30:00 AM	1.38186	1.38177			N/A
6/21/2019	CHFSGD.fx	11:30:00 AM	1.38114	1.38117			N/A
6/21/2019	CHFSGD.fx	1:30:00 PM	1.38198	1.38197			N/A
6/21/2019	CHFSGD.fx	3:30:00 PM	1.38352	1.38358			N/A
6/21/2019	CHFZAR	9:30:00 AM	14.6354	14.6398			N/A
6/21/2019	CHFZAR	11:30:00 AM	14.6445	14.6522			N/A
6/21/2019	CHFZAR	1:30:00 PM	14.6246	14.6228			N/A
6/21/2019	CHFZAR	3:30:00 PM	14.5865	14.5992			N/A
6/21/2019	CZKJPY	9:30:00 AM	4.731	4.735			N/A
6/21/2019	CZKJPY	11:30:00 AM					N/A
6/21/2019	CZKJPY	1:30:00 PM	4.749	4.752			N/A
6/21/2019	CZKJPY	3:30:00 PM					N/A
6/21/2019	DAX30.i	9:30:00 AM	12334.24	12332.99			N/A
6/21/2019	DAX30.i	11:30:00 AM	12389.74	12379.49			N/A
6/21/2019	DAX30.i	1:30:00 PM	12334.74	12331.74			N/A
6/21/2019	DAX30.i	3:30:00 PM	12344.74	12339.49			N/A
6/21/2019	DJ30.i	9:30:00 AM					N/A
6/21/2019	DJ30.i	11:30:00 AM					N/A
6/21/2019	DJ30.i	1:30:00 PM					N/A
6/21/2019	DJ30.i	3:30:00 PM					N/A
6/21/2019	DKKJPY	9:30:00 AM	16.22	16.24			N/A
6/21/2019	DKKJPY	11:30:00 AM	16.26	16.28			N/A

6/21/2019	DKKJPY	1:30:00 PM	16.28	16.3			N/A
6/21/2019	DKKJPY	3:30:00 PM					N/A
6/21/2019	EURAUD	9:30:00 AM	1.62933	1.62967			N/A
6/21/2019	EURAUD	11:30:00 AM	1.63322	1.6337			N/A
6/21/2019	EURAUD	1:30:00 PM	1.6347	1.6349			N/A
6/21/2019	EURAUD	3:30:00 PM	1.63779	1.63809			N/A
6/21/2019	EURAUD.fx	9:30:00 AM	1.62954	1.62946			N/A
6/21/2019	EURAUD.fx	11:30:00 AM	1.63342	1.63349			N/A
6/21/2019	EURAUD.fx	1:30:00 PM	1.6349	1.63469			N/A
6/21/2019	EURAUD.fx	3:30:00 PM	1.63799	1.63788			N/A
6/21/2019	EURCAD	9:30:00 AM	1.48838	1.4891			N/A
6/21/2019	EURCAD	11:30:00 AM	1.49099	1.49182			N/A
6/21/2019	EURCAD	1:30:00 PM	1.49076	1.49164			N/A
6/21/2019	EURCAD	3:30:00 PM	1.49383	1.4937			N/A
6/21/2019	EURCAD.fx	9:30:00 AM	1.48879	1.48868			N/A
6/21/2019	EURCAD.fx	11:30:00 AM	1.49141	1.49141			N/A
6/21/2019	EURCAD.fx	1:30:00 PM	1.49117	1.49123			N/A
6/21/2019	EURCAD.fx	3:30:00 PM	1.49408	1.4935			N/A
6/21/2019	EURCHF	9:30:00 AM	1.10885	1.10883			N/A
6/21/2019	EURCHF	11:30:00 AM	1.11088	1.11093			N/A
6/21/2019	EURCHF	1:30:00 PM	1.11095	1.1109			N/A
6/21/2019	EURCHF	3:30:00 PM	1.11022	1.11017			N/A
6/21/2019	EURCHF.fx	9:30:00 AM	1.1089	1.10878			N/A
6/21/2019	EURCHF.fx	11:30:00 AM	1.11093	1.11088			N/A
6/21/2019	EURCHF.fx	1:30:00 PM	1.11101	1.11083			N/A
6/21/2019	EURCHF.fx	3:30:00 PM	1.11027	1.11012			N/A
6/21/2019	EURCZK	9:30:00 AM	25.565	25.601			N/A
6/21/2019	EURCZK	11:30:00 AM	25.577	25.617			N/A
6/21/2019	EURCZK	1:30:00 PM	25.576	25.614			N/A
6/21/2019	EURCZK	3:30:00 PM	25.568	25.607			N/A
6/21/2019	EURDKK	9:30:00 AM	7.4637	7.4649			N/A
6/21/2019	EURDKK	11:30:00 AM	7.4643	7.4654			N/A
6/21/2019	EURDKK	1:30:00 PM	7.4645	7.4658			N/A
6/21/2019	EURDKK	3:30:00 PM	7.4634	7.4647			N/A

6/21/2019	EURGBP	9:30:00 AM	0.88965	0.88966			N/A
6/21/2019	EURGBP	11:30:00 AM	0.89139	0.89142			N/A
6/21/2019	EURGBP	1:30:00 PM	0.89284	0.89285			N/A
6/21/2019	EURGBP	3:30:00 PM	0.89404	0.89415			N/A
6/21/2019	EURGBP.fx	9:30:00 AM	0.88968	0.8896			N/A
6/21/2019	EURGBP.fx	11:30:00 AM	0.89142	0.89136			N/A
6/21/2019	EURGBP.fx	1:30:00 PM	0.89287	0.8928			N/A
6/21/2019	EURGBP.fx	3:30:00 PM	0.89406	0.89411			N/A
6/21/2019	EURHKD	9:30:00 AM	8.8107	8.8148			N/A
6/21/2019	EURHKD	11:30:00 AM	8.8245	8.8298			N/A
6/21/2019	EURHKD	1:30:00 PM	8.8307	8.8356			N/A
6/21/2019	EURHKD	3:30:00 PM	8.8412	8.8447			N/A
6/21/2019	EURHKD.fx	9:30:00 AM	8.81349	8.81209			N/A
6/21/2019	EURHKD.fx	11:30:00 AM	8.82733	8.827			N/A
6/21/2019	EURHKD.fx	1:30:00 PM	8.8335	8.83285			N/A
6/21/2019	EURHKD.fx	3:30:00 PM	8.84397	8.842			N/A
6/21/2019	EURHUF	9:30:00 AM	322.8	323.52			N/A
6/21/2019	EURHUF	11:30:00 AM	323.51	323.97			N/A
6/21/2019	EURHUF	1:30:00 PM	323.73	324.44			N/A
6/21/2019	EURHUF	3:30:00 PM	323.78	324.47			N/A
6/21/2019	EURHUF.fx	9:30:00 AM	323.051	323.272			N/A
6/21/2019	EURHUF.fx	11:30:00 AM	323.789	323.978			N/A
6/21/2019	EURHUF.fx	1:30:00 PM	323.992	324.17			N/A
6/21/2019	EURHUF.fx	3:30:00 PM	324.05	324.209			N/A
6/21/2019	EURJPY	9:30:00 AM	121.084	121.064			N/A
6/21/2019	EURJPY	11:30:00 AM	121.396	121.387			N/A
6/21/2019	EURJPY	1:30:00 PM	121.578	121.572			N/A
6/21/2019	EURJPY	3:30:00 PM	121.618	121.615			N/A
6/21/2019	EURJPY.fx	9:30:00 AM	121.086	121.06			N/A
6/21/2019	EURJPY.fx	11:30:00 AM	121.399	121.383			N/A
6/21/2019	EURJPY.fx	1:30:00 PM	121.581	121.568			N/A
6/21/2019	EURJPY.fx	3:30:00 PM	121.62	121.612			N/A
6/21/2019	EURMXN	9:30:00 AM	21.4705	21.4854			N/A
6/21/2019	EURMXN	11:30:00 AM	21.487	21.5074			N/A

6/21/2019	EURMXN	1:30:00 PM	21.5241	21.5426			N/A
6/21/2019	EURMXN	3:30:00 PM	21.5678	21.5847			N/A
6/21/2019	EURMXN.fx	9:30:00 AM	21.4794	21.4764			N/A
6/21/2019	EURMXN.fx	11:30:00 AM	21.4956	21.4989			N/A
6/21/2019	EURMXN.fx	1:30:00 PM	21.5325	21.5336			N/A
6/21/2019	EURMXN.fx	3:30:00 PM	21.5765	21.5756			N/A
6/21/2019	EURNOK	9:30:00 AM	9.6676	9.6798			N/A
6/21/2019	EURNOK	11:30:00 AM	9.6671	9.6796			N/A
6/21/2019	EURNOK	1:30:00 PM	9.6797	9.6917			N/A
6/21/2019	EURNOK	3:30:00 PM	9.6792	9.6913			N/A
6/21/2019	EURNOK.fx	9:30:00 AM	9.67322	9.67428			N/A
6/21/2019	EURNOK.fx	11:30:00 AM	9.67234	9.67431			N/A
6/21/2019	EURNOK.fx	1:30:00 PM	9.68533	9.68628			N/A
6/21/2019	EURNOK.fx	3:30:00 PM	9.68462	9.68577			N/A
6/21/2019	EURNZD	9:30:00 AM	1.71449	1.71506			N/A
6/21/2019	EURNZD	11:30:00 AM	1.72004	1.72081			N/A
6/21/2019	EURNZD	1:30:00 PM	1.72168	1.72247			N/A
6/21/2019	EURNZD	3:30:00 PM	1.72506	1.7256			N/A
6/21/2019	EURNZD.fx	9:30:00 AM	1.71492	1.71463			N/A
6/21/2019	EURNZD.fx	11:30:00 AM	1.72045	1.72039			N/A
6/21/2019	EURNZD.fx	1:30:00 PM	1.7221	1.72201			N/A
6/21/2019	EURNZD.fx	3:30:00 PM	1.72547	1.72517			N/A
6/21/2019	EURPLN	9:30:00 AM	4.2552	4.258			N/A
6/21/2019	EURPLN	11:30:00 AM	4.2598	4.2628			N/A
6/21/2019	EURPLN	1:30:00 PM	4.2592	4.2613			N/A
6/21/2019	EURPLN	3:30:00 PM	4.2568	4.2601			N/A
6/21/2019	EURPLN.fx	9:30:00 AM	4.25457	4.25852			N/A
6/21/2019	EURPLN.fx	11:30:00 AM	4.25922	4.26342			N/A
6/21/2019	EURPLN.fx	1:30:00 PM	4.25867	4.26312			N/A
6/21/2019	EURPLN.fx	3:30:00 PM	4.25626	4.26073			N/A
6/21/2019	EURRUB	9:30:00 AM					N/A
6/21/2019	EURRUB	11:30:00 AM	70.972	71.414			N/A
6/21/2019	EURRUB	1:30:00 PM	70.97	71.404			N/A
6/21/2019	EURRUB	3:30:00 PM	71.259	71.691			N/A

6/21/2019	EURSEK	9:30:00 AM	10.6314	10.6365			N/A
6/21/2019	EURSEK	11:30:00 AM	10.6148	10.6198			N/A
6/21/2019	EURSEK	1:30:00 PM	10.6121	10.6165			N/A
6/21/2019	EURSEK	3:30:00 PM	10.6279	10.6327			N/A
6/21/2019	EURSEK.fx	9:30:00 AM	10.63278	10.63502			N/A
6/21/2019	EURSEK.fx	11:30:00 AM	10.61635	10.61817			N/A
6/21/2019	EURSEK.fx	1:30:00 PM	10.61366	10.61494			N/A
6/21/2019	EURSEK.fx	3:30:00 PM	10.62945	10.63105			N/A
6/21/2019	EURSGD	9:30:00 AM	1.5319	1.5327			N/A
6/21/2019	EURSGD	11:30:00 AM	1.5339	1.5346			N/A
6/21/2019	EURSGD	1:30:00 PM	1.5348	1.5357			N/A
6/21/2019	EURSGD	3:30:00 PM	1.5357	1.5364			N/A
6/21/2019	EURSGD.fx	9:30:00 AM	1.53229	1.53225			N/A
6/21/2019	EURSGD.fx	11:30:00 AM	1.53427	1.53433			N/A
6/21/2019	EURSGD.fx	1:30:00 PM	1.53519	1.53527			N/A
6/21/2019	EURSGD.fx	3:30:00 PM	1.53607	1.53596			N/A
6/21/2019	EURUSD	9:30:00 AM	1.12833	1.12832			N/A
6/21/2019	EURUSD	11:30:00 AM	1.13025	1.13036			N/A
6/21/2019	EURUSD	1:30:00 PM	1.13076	1.13085			N/A
6/21/2019	EURUSD	3:30:00 PM	1.1315	1.1314			N/A
6/21/2019	EURUSD.fx	9:30:00 AM	1.12852	1.12841			N/A
6/21/2019	EURUSD.fx	11:30:00 AM	1.13046	1.13045			N/A
6/21/2019	EURUSD.fx	1:30:00 PM	1.13097	1.13093			N/A
6/21/2019	EURUSD.fx	3:30:00 PM	1.13169	1.13149			N/A
6/21/2019	EURZAR	9:30:00 AM	16.2304	16.2413			N/A
6/21/2019	EURZAR	11:30:00 AM	16.272	16.2902			N/A
6/21/2019	EURZAR	1:30:00 PM	16.2521	16.2509			N/A
6/21/2019	EURZAR	3:30:00 PM	16.2013	16.22			N/A
6/21/2019	EURZAR.fx	9:30:00 AM	16.2297	16.2433			N/A
6/21/2019	EURZAR.fx	11:30:00 AM	16.27124	16.2909			N/A
6/21/2019	EURZAR.fx	1:30:00 PM	16.25156	16.25103			N/A
6/21/2019	EURZAR.fx	3:30:00 PM	16.20036	16.22104			N/A
6/21/2019	GBPAUD	9:30:00 AM	1.83211	1.83247			N/A
6/21/2019	GBPAUD	11:30:00 AM	1.83285	1.83347			N/A

6/21/2019	GBPAUD	1:30:00 PM	1.83132	1.83204			N/A
6/21/2019	GBPAUD	3:30:00 PM	1.83233	1.83301			N/A
6/21/2019	GBPAUD.fx	9:30:00 AM	1.83252	1.83206			N/A
6/21/2019	GBPAUD.fx	11:30:00 AM	1.83325	1.83308			N/A
6/21/2019	GBPAUD.fx	1:30:00 PM	1.8317	1.83165			N/A
6/21/2019	GBPAUD.fx	3:30:00 PM	1.83271	1.83262			N/A
6/21/2019	GBPCAD	9:30:00 AM	1.67297	1.67377			N/A
6/21/2019	GBPCAD	11:30:00 AM	1.67284	1.67345			N/A
6/21/2019	GBPCAD	1:30:00 PM	1.66991	1.67053			N/A
6/21/2019	GBPCAD	3:30:00 PM	1.67085	1.67092			N/A
6/21/2019	GBPCAD.fx	9:30:00 AM	1.67335	1.67336			N/A
6/21/2019	GBPCAD.fx	11:30:00 AM	1.67324	1.67306			N/A
6/21/2019	GBPCAD.fx	1:30:00 PM	1.6703	1.67013			N/A
6/21/2019	GBPCAD.fx	3:30:00 PM	1.67106	1.67054			N/A
6/21/2019	GBPCHF	9:30:00 AM	1.24623	1.24662			N/A
6/21/2019	GBPCHF	11:30:00 AM	1.24603	1.24642			N/A
6/21/2019	GBPCHF	1:30:00 PM	1.24418	1.24444			N/A
6/21/2019	GBPCHF	3:30:00 PM	1.24156	1.24185			N/A
6/21/2019	GBPCHF.fx	9:30:00 AM	1.24643	1.24642			N/A
6/21/2019	GBPCHF.fx	11:30:00 AM	1.24621	1.24621			N/A
6/21/2019	GBPCHF.fx	1:30:00 PM	1.24437	1.24423			N/A
6/21/2019	GBPCHF.fx	3:30:00 PM	1.24174	1.24165			N/A
6/21/2019	GBPCZK	9:30:00 AM	28.746	28.764			N/A
6/21/2019	GBPCZK	11:30:00 AM	28.706	28.723			N/A
6/21/2019	GBPCZK	1:30:00 PM	28.657	28.675			N/A
6/21/2019	GBPCZK	3:30:00 PM	28.606	28.629			N/A
6/21/2019	GBPDKK	9:30:00 AM	8.387	8.397			N/A
6/21/2019	GBPDKK	11:30:00 AM	8.371	8.381			N/A
6/21/2019	GBPDKK	1:30:00 PM	8.357	8.368			N/A
6/21/2019	GBPDKK	3:30:00 PM	8.345	8.356			N/A
6/21/2019	GBPDKK.fx	9:30:00 AM	8.3855	8.3977			N/A
6/21/2019	GBPDKK.fx	11:30:00 AM	8.3693	8.3815			N/A
6/21/2019	GBPDKK.fx	1:30:00 PM	8.3557	8.3678			N/A
6/21/2019	GBPDKK.fx	3:30:00 PM	8.3438	8.3567			N/A

6/21/2019	GBPHKD	9:30:00 AM	9.9018	9.9046			N/A
6/21/2019	GBPHKD	11:30:00 AM	9.8977	9.9018			N/A
6/21/2019	GBPHKD	1:30:00 PM	9.8895	9.8931			N/A
6/21/2019	GBPHKD	3:30:00 PM	9.8855	9.89			N/A
6/21/2019	GBPHUF	9:30:00 AM	362.84	363.1			N/A
6/21/2019	GBPHUF	11:30:00 AM	362.95	363.21			N/A
6/21/2019	GBPHUF	1:30:00 PM	362.61	362.99			N/A
6/21/2019	GBPHUF	3:30:00 PM	361.96	362.42			N/A
6/21/2019	GBPJPY	9:30:00 AM	136.092	136.107			N/A
6/21/2019	GBPJPY	11:30:00 AM	136.18	136.191			N/A
6/21/2019	GBPJPY	1:30:00 PM	136.156	136.179			N/A
6/21/2019	GBPJPY	3:30:00 PM	136.004	136.038			N/A
6/21/2019	GBPJPY.fx	9:30:00 AM	136.11	136.087			N/A
6/21/2019	GBPJPY.fx	11:30:00 AM	136.2	136.171			N/A
6/21/2019	GBPJPY.fx	1:30:00 PM	136.176	136.16			N/A
6/21/2019	GBPJPY.fx	3:30:00 PM	136.02	136.02			N/A
6/21/2019	GBPMXN	9:30:00 AM	24.1296	24.1358			N/A
6/21/2019	GBPMXN	11:30:00 AM	24.1029	24.1129			N/A
6/21/2019	GBPMXN	1:30:00 PM	24.1049	24.1154			N/A
6/21/2019	GBPMXN	3:30:00 PM	24.1144	24.1294			N/A
6/21/2019	GBPNOK	9:30:00 AM	10.868	10.8792			N/A
6/21/2019	GBPNOK	11:30:00 AM	10.8465	10.8574			N/A
6/21/2019	GBPNOK	1:30:00 PM	10.8432	10.8531			N/A
6/21/2019	GBPNOK	3:30:00 PM	10.8268	10.8386			N/A
6/21/2019	GBPNOK.fx	9:30:00 AM	10.87307	10.87413			N/A
6/21/2019	GBPNOK.fx	11:30:00 AM	10.85125	10.85247			N/A
6/21/2019	GBPNOK.fx	1:30:00 PM	10.84802	10.84811			N/A
6/21/2019	GBPNOK.fx	3:30:00 PM	10.83175	10.83351			N/A
6/21/2019	GBPNZD	9:30:00 AM	1.92734	1.92756			N/A
6/21/2019	GBPNZD	11:30:00 AM	1.92983	1.93029			N/A
6/21/2019	GBPNZD	1:30:00 PM	1.92845	1.92906			N/A
6/21/2019	GBPNZD	3:30:00 PM	1.92952	1.93004			N/A
6/21/2019	GBPNZD.fx	9:30:00 AM	1.92769	1.92718			N/A
6/21/2019	GBPNZD.fx	11:30:00 AM	1.93018	1.92993			N/A

6/21/2019	GBPNZD.fx	1:30:00 PM	1.92884	1.92866			N/A
6/21/2019	GBPNZD.fx	3:30:00 PM	1.9299	1.92965			N/A
6/21/2019	GBPPLN	9:30:00 AM	4.784	4.7851			N/A
6/21/2019	GBPPLN	11:30:00 AM	4.7798	4.7815			N/A
6/21/2019	GBPPLN	1:30:00 PM	4.7718	4.7731			N/A
6/21/2019	GBPPLN	3:30:00 PM	4.762	4.764			N/A
6/21/2019	GBPPLN.fx	9:30:00 AM	4.78196	4.78716			N/A
6/21/2019	GBPPLN.fx	11:30:00 AM	4.77754	4.78354			N/A
6/21/2019	GBPPLN.fx	1:30:00 PM	4.76948	4.77521			N/A
6/21/2019	GBPPLN.fx	3:30:00 PM	4.75994	4.76607			N/A
6/21/2019	GBPSEK	9:30:00 AM	11.9487	11.9572			N/A
6/21/2019	GBPSEK	11:30:00 AM	11.9064	11.9151			N/A
6/21/2019	GBPSEK	1:30:00 PM	11.8846	11.8921			N/A
6/21/2019	GBPSEK	3:30:00 PM	11.8847	11.8945			N/A
6/21/2019	GBPSEK.fx	9:30:00 AM	11.94468	11.96101			N/A
6/21/2019	GBPSEK.fx	11:30:00 AM	11.90233	11.91889			N/A
6/21/2019	GBPSEK.fx	1:30:00 PM	11.88074	11.89592			N/A
6/21/2019	GBPSEK.fx	3:30:00 PM	11.88097	11.89828			N/A
6/21/2019	GBPSGD	9:30:00 AM	1.7219	1.7226			N/A
6/21/2019	GBPSGD	11:30:00 AM	1.721	1.7216			N/A
6/21/2019	GBPSGD	1:30:00 PM	1.7192	1.7199			N/A
6/21/2019	GBPSGD	3:30:00 PM	1.7177	1.7183			N/A
6/21/2019	GBPSGD.fx	9:30:00 AM	1.72009	1.72445			N/A
6/21/2019	GBPSGD.fx	11:30:00 AM	1.71915	1.72333			N/A
6/21/2019	GBPSGD.fx	1:30:00 PM	1.71744	1.72165			N/A
6/21/2019	GBPSGD.fx	3:30:00 PM	1.71582	1.72016			N/A
6/21/2019	GBPUSD	9:30:00 AM	1.26846	1.26846			N/A
6/21/2019	GBPUSD	11:30:00 AM	1.26826	1.26816			N/A
6/21/2019	GBPUSD	1:30:00 PM	1.26677	1.26668			N/A
6/21/2019	GBPUSD	3:30:00 PM	1.26572	1.26557			N/A
6/21/2019	GBPUSD.fx	9:30:00 AM	1.26852	1.2684			N/A
6/21/2019	GBPUSD.fx	11:30:00 AM	1.2683	1.26811			N/A
6/21/2019	GBPUSD.fx	1:30:00 PM	1.26683	1.26662			N/A
6/21/2019	GBPUSD.fx	3:30:00 PM	1.26576	1.26553			N/A

6/21/2019	GBPZAR	9:30:00 AM	18.2403	18.262			N/A
6/21/2019	GBPZAR	11:30:00 AM	18.251	18.2768			N/A
6/21/2019	GBPZAR	1:30:00 PM	18.1969	18.206			N/A
6/21/2019	GBPZAR	3:30:00 PM	18.1178	18.1453			N/A
6/21/2019	GBPZAR.fx	9:30:00 AM	18.247	18.2557			N/A
6/21/2019	GBPZAR.fx	11:30:00 AM	18.2583	18.2694			N/A
6/21/2019	GBPZAR.fx	1:30:00 PM	18.2038	18.1991			N/A
6/21/2019	GBPZAR.fx	3:30:00 PM	18.125	18.1378			N/A
6/21/2019	GOLD	9:30:00 AM	1394.42	1394.31			N/A
6/21/2019	GOLD	11:30:00 AM	1388.45	1388.45			N/A
6/21/2019	GOLD	1:30:00 PM	1391.98	1391.01			N/A
6/21/2019	GOLD	3:30:00 PM	1395.54	1394.25			N/A
6/21/2019	HKDJPY	9:30:00 AM	13.74	13.75			N/A
6/21/2019	HKDJPY	11:30:00 AM					N/A
6/21/2019	HKDJPY	1:30:00 PM	13.77	13.77			N/A
6/21/2019	HKDJPY	3:30:00 PM	13.75	13.76			N/A
6/21/2019	HKDJPY.fx	9:30:00 AM	13.735	13.74			N/A
6/21/2019	HKDJPY.fx	11:30:00 AM	13.748	13.754			N/A
6/21/2019	HKDJPY.fx	1:30:00 PM	13.759	13.766			N/A
6/21/2019	HKDJPY.fx	3:30:00 PM	13.749	13.753			N/A
6/21/2019	HUFJPY	9:30:00 AM	0.375	0.3753			N/A
6/21/2019	HUFJPY	11:30:00 AM	0.3751	0.3754			N/A
6/21/2019	HUFJPY	1:30:00 PM	0.3754	0.3757			N/A
6/21/2019	HUFJPY	3:30:00 PM	0.3756	0.3759			N/A
6/21/2019	JP225.i	9:30:00 AM	21272.72	21282.72			N/A
6/21/2019	JP225.i	11:30:00 AM	21295.22	21305.22			N/A
6/21/2019	JP225.i	1:30:00 PM	21300.22	21311.05			N/A
6/21/2019	JP225.i	3:30:00 PM	21275.22	21278.17			N/A
6/21/2019	MXNJPY	9:30:00 AM	5.64	5.65			N/A
6/21/2019	MXNJPY	11:30:00 AM	5.65	5.66			N/A
6/21/2019	MXNJPY	1:30:00 PM	5.65	5.66			N/A
6/21/2019	MXNJPY	3:30:00 PM	5.64	5.65			N/A
6/21/2019	NASDAQ.i	9:30:00 AM					N/A
6/21/2019	NASDAQ.i	11:30:00 AM					N/A

6/21/2019	NASDAQ.i	1:30:00 PM					N/A
6/21/2019	NASDAQ.i	3:30:00 PM					N/A
6/21/2019	NOKJPY	9:30:00 AM	12.51	12.53			N/A
6/21/2019	NOKJPY	11:30:00 AM	12.54	12.57			N/A
6/21/2019	NOKJPY	1:30:00 PM	12.53	12.57			N/A
6/21/2019	NOKJPY	3:30:00 PM	12.55	12.58			N/A
6/21/2019	NOKJPY.fx	9:30:00 AM	12.513	12.519			N/A
6/21/2019	NOKJPY.fx	11:30:00 AM	12.546	12.552			N/A
6/21/2019	NOKJPY.fx	1:30:00 PM	12.549	12.555			N/A
6/21/2019	NOKJPY.fx	3:30:00 PM	12.553	12.56			N/A
6/21/2019	NZDCAD	9:30:00 AM	0.86792	0.86842			N/A
6/21/2019	NZDCAD	11:30:00 AM	0.86652	0.86724			N/A
6/21/2019	NZDCAD	1:30:00 PM	0.86559	0.86629			N/A
6/21/2019	NZDCAD	3:30:00 PM	0.86573	0.8661			N/A
6/21/2019	NZDCAD.fx	9:30:00 AM	0.86825	0.86809			N/A
6/21/2019	NZDCAD.fx	11:30:00 AM	0.86688	0.8669			N/A
6/21/2019	NZDCAD.fx	1:30:00 PM	0.86594	0.86594			N/A
6/21/2019	NZDCAD.fx	3:30:00 PM	0.86596	0.86577			N/A
6/21/2019	NZDCHF	9:30:00 AM	0.64637	0.64691			N/A
6/21/2019	NZDCHF	11:30:00 AM	0.64537	0.64604			N/A
6/21/2019	NZDCHF	1:30:00 PM	0.64481	0.64545			N/A
6/21/2019	NZDCHF	3:30:00 PM	0.64319	0.64375			N/A
6/21/2019	NZDCHF.fx	9:30:00 AM	0.64671	0.64655			N/A
6/21/2019	NZDCHF.fx	11:30:00 AM	0.64571	0.64568			N/A
6/21/2019	NZDCHF.fx	1:30:00 PM	0.64515	0.6451			N/A
6/21/2019	NZDCHF.fx	3:30:00 PM	0.64352	0.64341			N/A
6/21/2019	NZDCZK	9:30:00 AM	14.912	14.924			N/A
6/21/2019	NZDCZK	11:30:00 AM	14.87	14.883			N/A
6/21/2019	NZDCZK	1:30:00 PM	14.856	14.868			N/A
6/21/2019	NZDCZK	3:30:00 PM	14.824	14.834			N/A
6/21/2019	NZDDKK	9:30:00 AM	4.351	4.354			N/A
6/21/2019	NZDDKK	11:30:00 AM	4.337	4.341			N/A
6/21/2019	NZDDKK	1:30:00 PM					N/A
6/21/2019	NZDDKK	3:30:00 PM	4.323	4.327			N/A

6/21/2019	NZDHKD	9:30:00 AM	5.137	5.1388			N/A
6/21/2019	NZDHKD	11:30:00 AM	5.1279	5.1305			N/A
6/21/2019	NZDHKD	1:30:00 PM	5.1266	5.129			N/A
6/21/2019	NZDHKD	3:30:00 PM	5.123	5.1241			N/A
6/21/2019	NZDHUF	9:30:00 AM	188.19	188.42			N/A
6/21/2019	NZDHUF	11:30:00 AM	187.98	188.24			N/A
6/21/2019	NZDHUF	1:30:00 PM	187.96	188.23			N/A
6/21/2019	NZDHUF	3:30:00 PM	187.54	187.81			N/A
6/21/2019	NZDJPY	9:30:00 AM	70.587	70.629			N/A
6/21/2019	NZDJPY	11:30:00 AM	70.524	70.596			N/A
6/21/2019	NZDJPY	1:30:00 PM	70.565	70.632			N/A
6/21/2019	NZDJPY	3:30:00 PM	70.457	70.519			N/A
6/21/2019	NZDJPY.fx	9:30:00 AM	70.619	70.595			N/A
6/21/2019	NZDJPY.fx	11:30:00 AM	70.555	70.563			N/A
6/21/2019	NZDJPY.fx	1:30:00 PM	70.597	70.598			N/A
6/21/2019	NZDJPY.fx	3:30:00 PM	70.488	70.487			N/A
6/21/2019	NZDMXN	9:30:00 AM	12.5177	12.5219			N/A
6/21/2019	NZDMXN	11:30:00 AM	12.4864	12.4926			N/A
6/21/2019	NZDMXN	1:30:00 PM	12.4973	12.5014			N/A
6/21/2019	NZDMXN	3:30:00 PM	12.4973	12.501			N/A
6/21/2019	NZDNOK	9:30:00 AM	5.6368	5.6396			N/A
6/21/2019	NZDNOK	11:30:00 AM	5.618	5.6205			N/A
6/21/2019	NZDNOK	1:30:00 PM	5.6206	5.6237			N/A
6/21/2019	NZDNOK	3:30:00 PM	5.6073	5.6105			N/A
6/21/2019	NZDPLN	9:30:00 AM	2.4808	2.4822			N/A
6/21/2019	NZDPLN	11:30:00 AM	2.4748	2.476			N/A
6/21/2019	NZDPLN	1:30:00 PM	2.4727	2.4739			N/A
6/21/2019	NZDPLN	3:30:00 PM	2.4661	2.4672			N/A
6/21/2019	NZDSEK	9:30:00 AM	6.195	6.2019			N/A
6/21/2019	NZDSEK	11:30:00 AM	6.1653	6.1721			N/A
6/21/2019	NZDSEK	1:30:00 PM	6.1584	6.1643			N/A
6/21/2019	NZDSEK	3:30:00 PM	6.1551	6.1611			N/A
6/21/2019	NZDSGD	9:30:00 AM	0.8932	0.8938			N/A
6/21/2019	NZDSGD	11:30:00 AM	0.8915	0.892			N/A

6/21/2019	NZDSGD	1:30:00 PM	0.8912	0.8919			N/A
6/21/2019	NZDSGD	3:30:00 PM	0.89	0.8906			N/A
6/21/2019	NZDSGD.fx	9:30:00 AM	0.89332	0.89371			N/A
6/21/2019	NZDSGD.fx	11:30:00 AM	0.89149	0.89211			N/A
6/21/2019	NZDSGD.fx	1:30:00 PM	0.89123	0.89181			N/A
6/21/2019	NZDSGD.fx	3:30:00 PM	0.89009	0.8905			N/A
6/21/2019	NZDUSD	9:30:00 AM	0.65805	0.65802			N/A
6/21/2019	NZDUSD	11:30:00 AM	0.65696	0.6571			N/A
6/21/2019	NZDUSD	1:30:00 PM	0.65664	0.65676			N/A
6/21/2019	NZDUSD	3:30:00 PM	0.65586	0.6558			N/A
6/21/2019	NZDUSD.fx	9:30:00 AM	0.65813	0.65803			N/A
6/21/2019	NZDUSD.fx	11:30:00 AM	0.65702	0.65711			N/A
6/21/2019	NZDUSD.fx	1:30:00 PM	0.65672	0.65677			N/A
6/21/2019	NZDUSD.fx	3:30:00 PM	0.65598	0.65582			N/A
6/21/2019	NZDZAR	9:30:00 AM	9.456	9.4685			N/A
6/21/2019	NZDZAR	11:30:00 AM	9.4477	9.4636			N/A
6/21/2019	NZDZAR	1:30:00 PM	9.4285	9.4348			N/A
6/21/2019	NZDZAR	3:30:00 PM	9.3789	9.3955			N/A
6/21/2019	SEKJPY	9:30:00 AM	11.39	11.39			N/A
6/21/2019	SEKJPY	11:30:00 AM	11.43	11.44			N/A
6/21/2019	SEKJPY	1:30:00 PM	11.46	11.46			N/A
6/21/2019	SEKJPY	3:30:00 PM					N/A
6/21/2019	SEKJPY.fx	9:30:00 AM	11.376	11.394			N/A
6/21/2019	SEKJPY.fx	11:30:00 AM	11.424	11.442			N/A
6/21/2019	SEKJPY.fx	1:30:00 PM	11.445	11.462			N/A
6/21/2019	SEKJPY.fx	3:30:00 PM	11.431	11.449			N/A
6/21/2019	SGDJPY	9:30:00 AM	78.99	79.01			N/A
6/21/2019	SGDJPY	11:30:00 AM	79.1	79.11			N/A
6/21/2019	SGDJPY	1:30:00 PM	79.18	79.18			N/A
6/21/2019	SGDJPY	3:30:00 PM	79.15	79.16			N/A
6/21/2019	SILVER	9:30:00 AM	15.15	15.52			N/A
6/21/2019	SILVER	11:30:00 AM	15.08	15.45			N/A
6/21/2019	SILVER	1:30:00 PM	15.11	15.47			N/A
6/21/2019	SILVER	3:30:00 PM	15.15	15.5			N/A

6/21/2019	SPX500.i	9:30:00 AM	2950.07	2950.62			N/A
6/21/2019	SPX500.i	11:30:00 AM	2953.57	2953.87			N/A
6/21/2019	SPX500.i	1:30:00 PM	2949.82	2950.37			N/A
6/21/2019	SPX500.i	3:30:00 PM	2951.07	2948.87			N/A
6/21/2019	UK100.i	9:30:00 AM	7430.62	7432.62			N/A
6/21/2019	UK100.i	11:30:00 AM	7459.12	7459.2			N/A
6/21/2019	UK100.i	1:30:00 PM	7440.87	7439.87			N/A
6/21/2019	UK100.i	3:30:00 PM	7444.62	7443.7			N/A
6/21/2019	USDCAD	9:30:00 AM	1.31924	1.3193			N/A
6/21/2019	USDCAD	11:30:00 AM	1.3193	1.31938			N/A
6/21/2019	USDCAD	1:30:00 PM	1.31852	1.3186			N/A
6/21/2019	USDCAD	3:30:00 PM	1.32038	1.31952		1600	N/A
6/21/2019	USDCAD.fx	9:30:00 AM	1.31928	1.31926			N/A
6/21/2019	USDCAD.fx	11:30:00 AM	1.31933	1.31934			N/A
6/21/2019	USDCAD.fx	1:30:00 PM	1.31855	1.31856			N/A
6/21/2019	USDCAD.fx	3:30:00 PM	1.32031	1.31952			N/A
6/21/2019	USDCHF	9:30:00 AM	0.98255	0.98265			N/A
6/21/2019	USDCHF	11:30:00 AM	0.98266	0.98271			N/A
6/21/2019	USDCHF	1:30:00 PM	0.98227	0.98229			N/A
6/21/2019	USDCHF	3:30:00 PM	0.98102	0.98114			N/A
6/21/2019	USDCHF.fx	9:30:00 AM	0.9826	0.98258			N/A
6/21/2019	USDCHF.fx	11:30:00 AM	0.98271	0.98265		2000	N/A
6/21/2019	USDCHF.fx	1:30:00 PM	0.98232	0.98223			N/A
6/21/2019	USDCHF.fx	3:30:00 PM	0.98105	0.98109			N/A
6/21/2019	USDCZK	9:30:00 AM	22.681	22.702			N/A
6/21/2019	USDCZK	11:30:00 AM	22.652	22.674			N/A
6/21/2019	USDCZK	1:30:00 PM	22.64	22.663			N/A
6/21/2019	USDCZK	3:30:00 PM	22.624	22.642			N/A
6/21/2019	USDCZK.fx	9:30:00 AM	22.6894	22.6931			N/A
6/21/2019	USDCZK.fx	11:30:00 AM	22.661	22.666			N/A
6/21/2019	USDCZK.fx	1:30:00 PM	22.6488	22.6541			N/A
6/21/2019	USDCZK.fx	3:30:00 PM	22.632	22.6331			N/A
6/21/2019	USDDKK	9:30:00 AM	6.6148	6.6182			N/A
6/21/2019	USDDKK	11:30:00 AM	6.6031	6.607			N/A

6/21/2019	USDDKK	1:30:00 PM	6.6002	6.6039			N/A
6/21/2019	USDDKK	3:30:00 PM	6.5971	6.5998			N/A
6/21/2019	USDDKK.fx	9:30:00 AM	6.61533	6.61616			N/A
6/21/2019	USDDKK.fx	11:30:00 AM	6.60352	6.60495			N/A
6/21/2019	USDDKK.fx	1:30:00 PM	6.6006	6.60194			N/A
6/21/2019	USDDKK.fx	3:30:00 PM	6.5976	6.59764			N/A
6/21/2019	USDHKD	9:30:00 AM	7.8095	7.8085			N/A
6/21/2019	USDHKD	11:30:00 AM	7.8085	7.8084			N/A
6/21/2019	USDHKD	1:30:00 PM	7.81	7.8104			N/A
6/21/2019	USDHKD	3:30:00 PM	7.814	7.8145			N/A
6/21/2019	USDHKD.fx	9:30:00 AM	7.80952	7.80857			N/A
6/21/2019	USDHKD.fx	11:30:00 AM	7.80849	7.80848			N/A
6/21/2019	USDHKD.fx	1:30:00 PM	7.80999	7.81047			N/A
6/21/2019	USDHKD.fx	3:30:00 PM					N/A
6/21/2019	USDHUF	9:30:00 AM	286.15	286.59			N/A
6/21/2019	USDHUF	11:30:00 AM	286.27	286.74			N/A
6/21/2019	USDHUF	1:30:00 PM	286.34	286.78			N/A
6/21/2019	USDHUF	3:30:00 PM	286.24	286.65			N/A
6/21/2019	USDHUF.fx	9:30:00 AM	286.315	286.409			N/A
6/21/2019	USDHUF.fx	11:30:00 AM	286.473	286.545			N/A
6/21/2019	USDHUF.fx	1:30:00 PM	286.535	286.587			N/A
6/21/2019	USDHUF.fx	3:30:00 PM	286.437	286.446			N/A
6/21/2019	USDINR	9:30:00 AM	64.65	74.64			N/A
6/21/2019	USDINR	11:30:00 AM	64.66	74.66			N/A
6/21/2019	USDINR	1:30:00 PM	64.54	74.54			N/A
6/21/2019	USDINR	3:30:00 PM					N/A
6/21/2019	USDJPY	9:30:00 AM	107.295	107.289			N/A
6/21/2019	USDJPY	11:30:00 AM	107.382	107.385			N/A
6/21/2019	USDJPY	1:30:00 PM	107.495	107.498			N/A
6/21/2019	USDJPY	3:30:00 PM	107.47	107.462			N/A
6/21/2019	USDJPY.fx	9:30:00 AM	107.3	107.282			N/A
6/21/2019	USDJPY.fx	11:30:00 AM	107.388	107.378			N/A
6/21/2019	USDJPY.fx	1:30:00 PM	107.5	107.491			N/A
6/21/2019	USDJPY.fx	3:30:00 PM	107.475	107.453			N/A

6/21/2019	USDMXN	9:30:00 AM	19.031	19.035			N/A
6/21/2019	USDMXN	11:30:00 AM	19.012	19.02			N/A
6/21/2019	USDMXN	1:30:00 PM	19.036	19.043			N/A
6/21/2019	USDMXN	3:30:00 PM	19.064	19.071			N/A
6/21/2019	USDMXN.fx	9:30:00 AM					N/A
6/21/2019	USDMXN.fx	11:30:00 AM					N/A
6/21/2019	USDMXN.fx	1:30:00 PM					N/A
6/21/2019	USDMXN.fx	3:30:00 PM					N/A
6/21/2019	USDNOK	9:30:00 AM	8.5684	8.5769			N/A
6/21/2019	USDNOK	11:30:00 AM	8.5531	8.5618			N/A
6/21/2019	USDNOK	1:30:00 PM	8.5602	8.5686			N/A
6/21/2019	USDNOK	3:30:00 PM	8.5558	8.5626			N/A
6/21/2019	USDNOK.fx	9:30:00 AM	8.57247	8.57244			N/A
6/21/2019	USDNOK.fx	11:30:00 AM	8.55715	8.55714			N/A
6/21/2019	USDNOK.fx	1:30:00 PM	8.5641	8.56411			N/A
6/21/2019	USDNOK.fx	3:30:00 PM	8.55958	8.5581			N/A
6/21/2019	USDPLN	9:30:00 AM	3.7716	3.7724			N/A
6/21/2019	USDPLN	11:30:00 AM	3.7689	3.7702			N/A
6/21/2019	USDPLN	1:30:00 PM	3.7668	3.7683			N/A
6/21/2019	USDPLN	3:30:00 PM	3.7629	3.7637			N/A
6/21/2019	USDPLN.fx	9:30:00 AM	3.77075	3.77317			N/A
6/21/2019	USDPLN.fx	11:30:00 AM	3.76808	3.77096			N/A
6/21/2019	USDPLN.fx	1:30:00 PM	3.76601	3.76902			N/A
6/21/2019	USDPLN.fx	3:30:00 PM	3.76209	3.76451			N/A
6/21/2019	USDRUB	9:30:00 AM					N/A
6/21/2019	USDRUB	11:30:00 AM	62.896	63.29			N/A
6/21/2019	USDRUB	1:30:00 PM	62.865	63.255			N/A
6/21/2019	USDRUB	3:30:00 PM	63.083	63.472			N/A
6/21/2019	USDSEK	9:30:00 AM	9.4209	9.4248			N/A
6/21/2019	USDSEK	11:30:00 AM	9.3895	9.3938			N/A
6/21/2019	USDSEK	1:30:00 PM	9.383	9.3868			N/A
6/21/2019	USDSEK	3:30:00 PM	9.3922	9.3952			N/A
6/21/2019	USDSEK.fx	9:30:00 AM	9.42316	9.42308			N/A
6/21/2019	USDSEK.fx	11:30:00 AM	9.39217	9.39195			N/A

6/21/2019	USDSEK.fx	1:30:00 PM	9.3858	9.38485			N/A
6/21/2019	USDSEK.fx	3:30:00 PM	9.39485	9.39296			N/A
6/21/2019	USDSGD	9:30:00 AM	1.3577	1.358			N/A
6/21/2019	USDSGD	11:30:00 AM	1.3571	1.3573			N/A
6/21/2019	USDSGD	1:30:00 PM	1.3573	1.3577			N/A
6/21/2019	USDSGD	3:30:00 PM	1.3573	1.3575			N/A
6/21/2019	USDSGD.fx	9:30:00 AM	1.3576	1.35799			N/A
6/21/2019	USDSGD.fx	11:30:00 AM	1.35699	1.35751			N/A
6/21/2019	USDSGD.fx	1:30:00 PM	1.3572	1.35771			N/A
6/21/2019	USDSGD.fx	3:30:00 PM	1.35717	1.35764			N/A
6/21/2019	USDZAR	9:30:00 AM	14.3832	14.3937			N/A
6/21/2019	USDZAR	11:30:00 AM	14.3942	14.4116			N/A
6/21/2019	USDZAR	1:30:00 PM	14.366	14.3695			N/A
6/21/2019	USDZAR	3:30:00 PM	14.3171	14.3334			N/A
6/21/2019	USDZAR.fx	9:30:00 AM	14.38882	14.38802			N/A
6/21/2019	USDZAR.fx	11:30:00 AM	14.39947	14.4047			N/A
6/21/2019	USDZAR.fx	1:30:00 PM	14.37555	14.36351			N/A
6/21/2019	USDZAR.fx	3:30:00 PM	14.32486	14.32733			N/A
6/21/2019	XAUUSD	9:30:00 AM	1394.43	1394.31			N/A
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6/24/2019	#POT	11:30:00 AM					N/A
6/24/2019	#POT	1:30:00 PM					N/A
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6/24/2019	#QCOM	1:30:00 PM					N/A
6/24/2019	#QCOM	3:30:00 PM					N/A
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6/24/2019	#QQQ	1:30:00 PM					N/A
6/24/2019	#QQQ	3:30:00 PM					N/A

6/24/2019	#Ripple	9:30:00 AM	0.4576	0.4623			N/A
6/24/2019	#Ripple	11:30:00 AM	0.4599	0.4649			N/A
6/24/2019	#Ripple	1:30:00 PM	0.4658	0.4696			N/A
6/24/2019	#Ripple	3:30:00 PM	0.4645	0.4688			N/A
6/24/2019	#S	9:30:00 AM					N/A
6/24/2019	#S	11:30:00 AM					N/A
6/24/2019	#S	1:30:00 PM					N/A
6/24/2019	#S	3:30:00 PM					N/A
6/24/2019	#SBUX	9:30:00 AM					N/A
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6/24/2019	#SBUX	1:30:00 PM					N/A
6/24/2019	#SBUX	3:30:00 PM					N/A
6/24/2019	#SNE	9:30:00 AM					N/A
6/24/2019	#SNE	11:30:00 AM					N/A
6/24/2019	#SNE	1:30:00 PM					N/A
6/24/2019	#SNE	3:30:00 PM					N/A
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6/24/2019	#SPY	11:30:00 AM					N/A
6/24/2019	#SPY	1:30:00 PM					N/A
6/24/2019	#SPY	3:30:00 PM					N/A
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6/24/2019	#T	1:30:00 PM					N/A
6/24/2019	#T	3:30:00 PM					N/A
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6/24/2019	#TRI	3:30:00 PM					N/A
6/24/2019	#TRV	9:30:00 AM					N/A
6/24/2019	#TRV	11:30:00 AM					N/A

6/24/2019	#TRV	1:30:00 PM					N/A
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6/24/2019	#TSCO	11:30:00 AM					N/A
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6/24/2019	#TSCO	3:30:00 PM					N/A
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6/24/2019	#TSLA	3:30:00 PM					N/A
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6/24/2019	#UBS	1:30:00 PM					N/A
6/24/2019	#UBS	3:30:00 PM					N/A
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6/24/2019	#UL	3:30:00 PM					N/A
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6/24/2019	#V	11:30:00 AM					N/A
6/24/2019	#V	1:30:00 PM					N/A
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6/24/2019	#VOD	9:30:00 AM					N/A
6/24/2019	#VOD	11:30:00 AM					N/A
6/24/2019	#VOD	1:30:00 PM					N/A
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6/24/2019	#WDC	3:30:00 PM					N/A
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6/24/2019	#WFC	3:30:00 PM					N/A
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6/24/2019	#WMT	1:30:00 PM					N/A
6/24/2019	#WMT	3:30:00 PM					N/A
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6/24/2019	#XOM	11:30:00 AM					N/A
6/24/2019	#XOM	1:30:00 PM					N/A
6/24/2019	#XOM	3:30:00 PM					N/A
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6/24/2019	#YHOO	11:30:00 AM					N/A
6/24/2019	#YHOO	1:30:00 PM					N/A
6/24/2019	#YHOO	3:30:00 PM					N/A
6/24/2019	#ZNGA	9:30:00 AM					N/A
6/24/2019	#ZNGA	11:30:00 AM					N/A
6/24/2019	#ZNGA	1:30:00 PM					N/A
6/24/2019	#ZNGA	3:30:00 PM					N/A
6/24/2019	AUDCAD	9:30:00 AM	0.91721	0.91786			N/A
6/24/2019	AUDCAD	11:30:00 AM	0.91612	0.91671			N/A

6/24/2019	AUDCAD	1:30:00 PM	0.91572	0.91639			N/A
6/24/2019	AUDCAD	3:30:00 PM	0.9168	0.91748			N/A
6/24/2019	AUDCAD.fx	9:30:00 AM	0.91755	0.9175			N/A
6/24/2019	AUDCAD.fx	11:30:00 AM	0.91645	0.91637			N/A
6/24/2019	AUDCAD.fx	1:30:00 PM	0.91605	0.91604			N/A
6/24/2019	AUDCAD.fx	3:30:00 PM	0.91712	0.91714			N/A
6/24/2019	AUDCHF	9:30:00 AM	0.67967	0.68036			N/A
6/24/2019	AUDCHF	11:30:00 AM	0.67803	0.67855			N/A
6/24/2019	AUDCHF	1:30:00 PM	0.67728	0.67792			N/A
6/24/2019	AUDCHF	3:30:00 PM	0.67743	0.67809			N/A
6/24/2019	AUDCHF.fx	9:30:00 AM	0.68001	0.68001			N/A
6/24/2019	AUDCHF.fx	11:30:00 AM	0.67837	0.6782			N/A
6/24/2019	AUDCHF.fx	1:30:00 PM	0.67763	0.67757			N/A
6/24/2019	AUDCHF.fx	3:30:00 PM	0.67777	0.67774			N/A
6/24/2019	AUDCZK	9:30:00 AM	15.619	15.636			N/A
6/24/2019	AUDCZK	11:30:00 AM	15.593	15.609			N/A
6/24/2019	AUDCZK	1:30:00 PM	15.595	15.609			N/A
6/24/2019	AUDCZK	3:30:00 PM	15.601	15.617			N/A
6/24/2019	AUDDKK	9:30:00 AM	4.5604	4.565			N/A
6/24/2019	AUDDKK	11:30:00 AM	4.5519	4.5562			N/A
6/24/2019	AUDDKK	1:30:00 PM	4.5521	4.5565			N/A
6/24/2019	AUDDKK	3:30:00 PM	4.5541	4.5587			N/A
6/24/2019	AUDHKD	9:30:00 AM	5.4326	5.4363			N/A
6/24/2019	AUDHKD	11:30:00 AM	5.426	5.4299			N/A
6/24/2019	AUDHKD	1:30:00 PM	5.425	5.4286			N/A
6/24/2019	AUDHKD	3:30:00 PM	5.4267	5.4305			N/A
6/24/2019	AUDHUF	9:30:00 AM	197.79	197.98			N/A
6/24/2019	AUDHUF	11:30:00 AM	197.56	197.79			N/A
6/24/2019	AUDHUF	1:30:00 PM	197.4	197.64			N/A
6/24/2019	AUDHUF	3:30:00 PM	197.7	197.86			N/A
6/24/2019	AUDJPY	9:30:00 AM	74.726	74.779			N/A
6/24/2019	AUDJPY	11:30:00 AM	74.61	74.67			N/A
6/24/2019	AUDJPY	1:30:00 PM	74.555	74.623			N/A
6/24/2019	AUDJPY	3:30:00 PM	74.585	74.651			N/A

6/24/2019	AUDJPY.fx	9:30:00 AM	74.76	74.743			N/A
6/24/2019	AUDJPY.fx	11:30:00 AM	74.643	74.635			N/A
6/24/2019	AUDJPY.fx	1:30:00 PM	74.589	74.588			N/A
6/24/2019	AUDJPY.fx	3:30:00 PM	74.618	74.616			N/A
6/24/2019	AUDMXN	9:30:00 AM	13.27	13.2781			N/A
6/24/2019	AUDMXN	11:30:00 AM	13.2682	13.2756			N/A
6/24/2019	AUDMXN	1:30:00 PM	13.279	13.2881			N/A
6/24/2019	AUDMXN	3:30:00 PM	13.3026	13.3086			N/A
6/24/2019	AUDNOK	9:30:00 AM	5.8983	5.9032			N/A
6/24/2019	AUDNOK	11:30:00 AM	5.8882	5.893			N/A
6/24/2019	AUDNOK	1:30:00 PM	5.8849	5.8899			N/A
6/24/2019	AUDNOK	3:30:00 PM	5.8964	5.9015			N/A
6/24/2019	AUDNOK.fx	9:30:00 AM	5.8998	5.9016			N/A
6/24/2019	AUDNOK.fx	11:30:00 AM	5.8897	5.8913			N/A
6/24/2019	AUDNOK.fx	1:30:00 PM	5.8865	5.8881			N/A
6/24/2019	AUDNOK.fx	3:30:00 PM	5.8981	5.8998			N/A
6/24/2019	AUDNZD	9:30:00 AM	1.0518	1.05243			N/A
6/24/2019	AUDNZD	11:30:00 AM	1.05066	1.05158			N/A
6/24/2019	AUDNZD	1:30:00 PM	1.05112	1.05179			N/A
6/24/2019	AUDNZD	3:30:00 PM	1.0522	1.0531			N/A
6/24/2019	AUDNZD.fx	9:30:00 AM	1.05223	1.05199			N/A
6/24/2019	AUDNZD.fx	11:30:00 AM	1.0511	1.05112			N/A
6/24/2019	AUDNZD.fx	1:30:00 PM	1.05158	1.05133			N/A
6/24/2019	AUDNZD.fx	3:30:00 PM	1.05262	1.05266			N/A
6/24/2019	AUDPLN	9:30:00 AM	2.5979	2.6005			N/A
6/24/2019	AUDPLN	11:30:00 AM	2.5933	2.5964			N/A
6/24/2019	AUDPLN	1:30:00 PM	2.5935	2.5962			N/A
6/24/2019	AUDPLN	3:30:00 PM	2.5956	2.599			N/A
6/24/2019	AUDSEK	9:30:00 AM	6.4933	6.4956			N/A
6/24/2019	AUDSEK	11:30:00 AM	6.4764	6.4782			N/A
6/24/2019	AUDSEK	1:30:00 PM	6.471	6.4735			N/A
6/24/2019	AUDSEK	3:30:00 PM	6.4686	6.4716			N/A
6/24/2019	AUDSEK.fx	9:30:00 AM	6.4886	6.5004			N/A
6/24/2019	AUDSEK.fx	11:30:00 AM	6.472	6.4826			N/A

6/24/2019	AUDSEK.fx	1:30:00 PM	6.4663	6.4779			N/A
6/24/2019	AUDSEK.fx	3:30:00 PM	6.4639	6.4761			N/A
6/24/2019	AUDSGD	9:30:00 AM	0.9417	0.942			N/A
6/24/2019	AUDSGD	11:30:00 AM	0.9411	0.9413			N/A
6/24/2019	AUDSGD	1:30:00 PM	0.9407	0.941			N/A
6/24/2019	AUDSGD	3:30:00 PM	0.9414	0.9417			N/A
6/24/2019	AUDSGD.fx	9:30:00 AM	0.94177	0.94188			N/A
6/24/2019	AUDSGD.fx	11:30:00 AM	0.94116	0.94116			N/A
6/24/2019	AUDSGD.fx	1:30:00 PM	0.9408	0.94087			N/A
6/24/2019	AUDSGD.fx	3:30:00 PM	0.94146	0.94158			N/A
6/24/2019	AUDUSD	9:30:00 AM	0.69577	0.69586			N/A
6/24/2019	AUDUSD	11:30:00 AM	0.69493	0.69497			N/A
6/24/2019	AUDUSD	1:30:00 PM	0.69481	0.69492			N/A
6/24/2019	AUDUSD	3:30:00 PM	0.69524	0.69532			N/A
6/24/2019	AUDUSD.fx	9:30:00 AM	0.69583	0.6958			N/A
6/24/2019	AUDUSD.fx	11:30:00 AM	0.69498	0.69491			N/A
6/24/2019	AUDUSD.fx	1:30:00 PM	0.69486	0.69487			N/A
6/24/2019	AUDUSD.fx	3:30:00 PM	0.69529	0.69525			N/A
6/24/2019	AUDZAR	9:30:00 AM	9.9067	9.9153			N/A
6/24/2019	AUDZAR	11:30:00 AM	9.9084	9.9213			N/A
6/24/2019	AUDZAR	1:30:00 PM	9.9508	9.9655			N/A
6/24/2019	AUDZAR	3:30:00 PM	9.952	9.9648			N/A
6/24/2019	AUS200.i	9:30:00 AM	6665.7	6668.2			N/A
6/24/2019	AUS200.i	11:30:00 AM	6665.78	6668.28			N/A
6/24/2019	AUS200.i	1:30:00 PM	6669.58	6673.28			N/A
6/24/2019	AUS200.i	3:30:00 PM	6664.78	6668.28			N/A
6/24/2019	BCHUSD	9:30:00 AM	485.08	486.3			N/A
6/24/2019	BCHUSD	11:30:00 AM	488.56	490.06			N/A
6/24/2019	BCHUSD	1:30:00 PM	491.35	492.67			N/A
6/24/2019	BCHUSD	3:30:00 PM	487.42	488.76			N/A
6/24/2019	CADCHF	9:30:00 AM	0.74082	0.74147			N/A
6/24/2019	CADCHF	11:30:00 AM	0.73985	0.74045			N/A
6/24/2019	CADCHF	1:30:00 PM	0.73935	0.73999			N/A
6/24/2019	CADCHF	3:30:00 PM	0.73866	0.7393			N/A

6/24/2019	CADCHF.fx	9:30:00 AM	0.74115	0.74112			N/A
6/24/2019	CADCHF.fx	11:30:00 AM	0.74018	0.7401			N/A
6/24/2019	CADCHF.fx	1:30:00 PM	0.73969	0.73963			N/A
6/24/2019	CADCHF.fx	3:30:00 PM	0.73902	0.73895			N/A
6/24/2019	CADCZK	9:30:00 AM	17.028	17.042			N/A
6/24/2019	CADCZK	11:30:00 AM	17.018	17.034			N/A
6/24/2019	CADCZK	1:30:00 PM	17.027	17.042			N/A
6/24/2019	CADCZK	3:30:00 PM	17.015	17.03			N/A
6/24/2019	CADDDKK	9:30:00 AM	4.972	4.975			N/A
6/24/2019	CADDDKK	11:30:00 AM					N/A
6/24/2019	CADDDKK	1:30:00 PM	4.971	4.974			N/A
6/24/2019	CADDDKK	3:30:00 PM	4.967	4.968			N/A
6/24/2019	CADHKD	9:30:00 AM	5.922	5.9256			N/A
6/24/2019	CADHKD	11:30:00 AM	5.9213	5.9252			N/A
6/24/2019	CADHKD	1:30:00 PM	5.9236	5.927			N/A
6/24/2019	CADHKD	3:30:00 PM	5.9187	5.9214			N/A
6/24/2019	CADHUF	9:30:00 AM	215.66	215.73			N/A
6/24/2019	CADHUF	11:30:00 AM	215.64	215.82			N/A
6/24/2019	CADHUF	1:30:00 PM	215.58	215.74			N/A
6/24/2019	CADHUF	3:30:00 PM	215.68	215.74			N/A
6/24/2019	CADJPY	9:30:00 AM	81.439	81.502			N/A
6/24/2019	CADJPY	11:30:00 AM	81.418	81.482			N/A
6/24/2019	CADJPY	1:30:00 PM	81.391	81.455			N/A
6/24/2019	CADJPY	3:30:00 PM	81.329	81.39			N/A
6/24/2019	CADJPY.fx	9:30:00 AM	81.473	81.468			N/A
6/24/2019	CADJPY.fx	11:30:00 AM	81.452	81.447			N/A
6/24/2019	CADJPY.fx	1:30:00 PM	81.425	81.419			N/A
6/24/2019	CADJPY.fx	3:30:00 PM	81.362	81.355			N/A
6/24/2019	CADMXN	9:30:00 AM	14.4647	14.4756			N/A
6/24/2019	CADMXN	11:30:00 AM	14.4795	14.4912			N/A
6/24/2019	CADMXN	1:30:00 PM	14.4985	14.5086			N/A
6/24/2019	CADMXN	3:30:00 PM	14.5063	14.5139			N/A
6/24/2019	CADNOK	9:30:00 AM	6.4274	6.4323			N/A
6/24/2019	CADNOK	11:30:00 AM	6.4243	6.4291			N/A

6/24/2019	CADNOK	1:30:00 PM	6.4244	6.4278			N/A
6/24/2019	CADNOK	3:30:00 PM	6.4283	6.4303			N/A
6/24/2019	CADPLN	9:30:00 AM	2.8323	2.8339			N/A
6/24/2019	CADPLN	11:30:00 AM	2.8304	2.8323			N/A
6/24/2019	CADPLN	1:30:00 PM	2.8318	2.8329			N/A
6/24/2019	CADPLN	3:30:00 PM	2.8302	2.8318			N/A
6/24/2019	CADSEK	9:30:00 AM	7.0757	7.0778			N/A
6/24/2019	CADSEK	11:30:00 AM	7.066	7.0685			N/A
6/24/2019	CADSEK	1:30:00 PM	7.0631	7.0657			N/A
6/24/2019	CADSEK	3:30:00 PM	7.0514	7.0547			N/A
6/24/2019	CADSGD	9:30:00 AM	1.0259	1.0263			N/A
6/24/2019	CADSGD	11:30:00 AM	1.0261	1.0264			N/A
6/24/2019	CADSGD	1:30:00 PM	1.0263	1.0266			N/A
6/24/2019	CADSGD	3:30:00 PM	1.0258	1.0262			N/A
6/24/2019	CADZAR	9:30:00 AM	10.7988	10.8094			N/A
6/24/2019	CADZAR	11:30:00 AM	10.8142	10.8273			N/A
6/24/2019	CADZAR	1:30:00 PM	10.8647	10.8817			N/A
6/24/2019	CADZAR	3:30:00 PM	10.8536	10.8676			N/A
6/24/2019	CHFCZK	9:30:00 AM	22.978	22.994			N/A
6/24/2019	CHFCZK	11:30:00 AM	22.998	23.01			N/A
6/24/2019	CHFCZK	1:30:00 PM	23.023	23.038			N/A
6/24/2019	CHFCZK	3:30:00 PM	23.027	23.043			N/A
6/24/2019	CHFDKK	9:30:00 AM	6.709	6.711			N/A
6/24/2019	CHFDKK	11:30:00 AM	6.713	6.715			N/A
6/24/2019	CHFDKK	1:30:00 PM	6.719	6.723			N/A
6/24/2019	CHFDKK	3:30:00 PM	6.721	6.724			N/A
6/24/2019	CHFDKK.fx	9:30:00 AM	6.7071	6.7129			N/A
6/24/2019	CHFDKK.fx	11:30:00 AM	6.7117	6.7161			N/A
6/24/2019	CHFDKK.fx	1:30:00 PM	6.7184	6.7239			N/A
6/24/2019	CHFDKK.fx	3:30:00 PM	6.7199	6.7258			N/A
6/24/2019	CHFHKD	9:30:00 AM	7.992	7.9943			N/A
6/24/2019	CHFHKD	11:30:00 AM	8.0015	8.0054			N/A
6/24/2019	CHFHKD	1:30:00 PM	8.0095	8.0127			N/A
6/24/2019	CHFHKD	3:30:00 PM	8.0102	8.014			N/A

6/24/2019	CHFHUF	9:30:00 AM	290.92	291.2			N/A
6/24/2019	CHFHUF	11:30:00 AM	291.32	291.65			N/A
6/24/2019	CHFHUF	1:30:00 PM	291.38	291.75			N/A
6/24/2019	CHFHUF	3:30:00 PM	291.74	292.03			N/A
6/24/2019	CHFJPY	9:30:00 AM	109.908	109.946			N/A
6/24/2019	CHFJPY	11:30:00 AM	110.019	110.065			N/A
6/24/2019	CHFJPY	1:30:00 PM	110.057	110.101			N/A
6/24/2019	CHFJPY	3:30:00 PM	110.06	110.125			N/A
6/24/2019	CHFJPY.fx	9:30:00 AM	109.94	109.912			N/A
6/24/2019	CHFJPY.fx	11:30:00 AM	110.053	110.03			N/A
6/24/2019	CHFJPY.fx	1:30:00 PM	110.09	110.066			N/A
6/24/2019	CHFJPY.fx	3:30:00 PM	110.092	110.09			N/A
6/24/2019	CHFMXN	9:30:00 AM	19.5184	19.531			N/A
6/24/2019	CHFMXN	11:30:00 AM	19.5645	19.5784			N/A
6/24/2019	CHFMXN	1:30:00 PM	19.6017	19.6167			N/A
6/24/2019	CHFMXN	3:30:00 PM	19.6296	19.6435			N/A
6/24/2019	CHFNOK	9:30:00 AM	8.6738	8.6813			N/A
6/24/2019	CHFNOK	11:30:00 AM	8.6813	8.6874			N/A
6/24/2019	CHFNOK	1:30:00 PM	8.6856	8.6919			N/A
6/24/2019	CHFNOK	3:30:00 PM	8.6993	8.7073			N/A
6/24/2019	CHFNOK.fx	9:30:00 AM	8.67721	8.6778			N/A
6/24/2019	CHFNOK.fx	11:30:00 AM	8.68472	8.68388			N/A
6/24/2019	CHFNOK.fx	1:30:00 PM	8.68932	8.68828			N/A
6/24/2019	CHFNOK.fx	3:30:00 PM	8.7029	8.70372			N/A
6/24/2019	CHFPLN	9:30:00 AM	3.8217	3.8237			N/A
6/24/2019	CHFPLN	11:30:00 AM	3.8244	3.8265			N/A
6/24/2019	CHFPLN	1:30:00 PM	3.8284	3.8309			N/A
6/24/2019	CHFPLN	3:30:00 PM	3.8306	3.8335			N/A
6/24/2019	CHFPLN.fx	9:30:00 AM	3.81896	3.82615			N/A
6/24/2019	CHFPLN.fx	11:30:00 AM	3.82204	3.82883			N/A
6/24/2019	CHFPLN.fx	1:30:00 PM	3.82606	3.83305			N/A
6/24/2019	CHFPLN.fx	3:30:00 PM	3.82816	3.83593			N/A
6/24/2019	CHFSEK	9:30:00 AM	9.5478	9.5502			N/A
6/24/2019	CHFSEK	11:30:00 AM	9.5481	9.5499			N/A

6/24/2019	CHFSEK	1:30:00 PM	9.5497	9.5526			N/A
6/24/2019	CHFSEK	3:30:00 PM	9.5421	9.547			N/A
6/24/2019	CHFSGD	9:30:00 AM	1.3848	1.3852			N/A
6/24/2019	CHFSGD	11:30:00 AM	1.3874	1.3877			N/A
6/24/2019	CHFSGD	1:30:00 PM	1.3882	1.3887			N/A
6/24/2019	CHFSGD	3:30:00 PM	1.389	1.3894			N/A
6/24/2019	CHFSGD.fx	9:30:00 AM	1.38501	1.38504			N/A
6/24/2019	CHFSGD.fx	11:30:00 AM	1.38763	1.38747			N/A
6/24/2019	CHFSGD.fx	1:30:00 PM	1.38853	1.38853			N/A
6/24/2019	CHFSGD.fx	3:30:00 PM	1.38917	1.38919			N/A
6/24/2019	CHFZAR	9:30:00 AM	14.5759	14.5802			N/A
6/24/2019	CHFZAR	11:30:00 AM	14.6153	14.6234			N/A
6/24/2019	CHFZAR	1:30:00 PM	14.6935	14.7064			N/A
6/24/2019	CHFZAR	3:30:00 PM	14.6918	14.7012			N/A
6/24/2019	CZKJPY	9:30:00 AM	4.781	4.785			N/A
6/24/2019	CZKJPY	11:30:00 AM	4.783	4.787			N/A
6/24/2019	CZKJPY	1:30:00 PM	4.78	4.783			N/A
6/24/2019	CZKJPY	3:30:00 PM	4.779	4.782			N/A
6/24/2019	DAX30.i	9:30:00 AM	12324.63	12322.63			N/A
6/24/2019	DAX30.i	11:30:00 AM	12279.38	12274.38			N/A
6/24/2019	DAX30.i	1:30:00 PM	12263.88	12263.38			N/A
6/24/2019	DAX30.i	3:30:00 PM	12267.88	12267.13			N/A
6/24/2019	DJ30.i	9:30:00 AM					N/A
6/24/2019	DJ30.i	11:30:00 AM					N/A
6/24/2019	DJ30.i	1:30:00 PM					N/A
6/24/2019	DJ30.i	3:30:00 PM					N/A
6/24/2019	DKKJPY	9:30:00 AM	16.38	16.4			N/A
6/24/2019	DKKJPY	11:30:00 AM					N/A
6/24/2019	DKKJPY	1:30:00 PM					N/A
6/24/2019	DKKJPY	3:30:00 PM					N/A
6/24/2019	EURAUD	9:30:00 AM	1.63568	1.63602			N/A
6/24/2019	EURAUD	11:30:00 AM	1.63866	1.639			N/A
6/24/2019	EURAUD	1:30:00 PM	1.63865	1.63899			N/A
6/24/2019	EURAUD	3:30:00 PM	1.6378	1.63815			N/A

6/24/2019	EURAUD.fx	9:30:00 AM	1.63589	1.6358			N/A
6/24/2019	EURAUD.fx	11:30:00 AM	1.63886	1.63879			N/A
6/24/2019	EURAUD.fx	1:30:00 PM	1.63887	1.63877			N/A
6/24/2019	EURAUD.fx	3:30:00 PM	1.63799	1.63794			N/A
6/24/2019	EURCAD	9:30:00 AM	1.50112	1.50183			N/A
6/24/2019	EURCAD	11:30:00 AM	1.5021	1.50282			N/A
6/24/2019	EURCAD	1:30:00 PM	1.50141	1.50221			N/A
6/24/2019	EURCAD	3:30:00 PM	1.50242	1.50314			N/A
6/24/2019	EURCAD.fx	9:30:00 AM	1.50153	1.50139			N/A
6/24/2019	EURCAD.fx	11:30:00 AM	1.50252	1.50241			N/A
6/24/2019	EURCAD.fx	1:30:00 PM	1.50184	1.50179			N/A
6/24/2019	EURCAD.fx	3:30:00 PM	1.50285	1.50272			N/A
6/24/2019	EURCHF	9:30:00 AM	1.11274	1.1128			N/A
6/24/2019	EURCHF	11:30:00 AM	1.11214	1.11198			N/A
6/24/2019	EURCHF	1:30:00 PM	1.11084	1.11085			N/A
6/24/2019	EURCHF	3:30:00 PM	1.11055	1.11063			N/A
6/24/2019	EURCHF.fx	9:30:00 AM	1.11279	1.11272			N/A
6/24/2019	EURCHF.fx	11:30:00 AM	1.1122	1.11192			N/A
6/24/2019	EURCHF.fx	1:30:00 PM	1.1109	1.11078			N/A
6/24/2019	EURCHF.fx	3:30:00 PM	1.1106	1.11057			N/A
6/24/2019	EURCZK	9:30:00 AM	25.557	25.594			N/A
6/24/2019	EURCZK	11:30:00 AM					N/A
6/24/2019	EURCZK	1:30:00 PM	25.562	25.599			N/A
6/24/2019	EURCZK	3:30:00 PM	25.56	25.599			N/A
6/24/2019	EURDKK	9:30:00 AM					N/A
6/24/2019	EURDKK	11:30:00 AM					N/A
6/24/2019	EURDKK	1:30:00 PM	7.4642	7.4655			N/A
6/24/2019	EURDKK	3:30:00 PM	7.4648	7.4658			N/A
6/24/2019	EURGBP	9:30:00 AM	0.89216	0.89222			N/A
6/24/2019	EURGBP	11:30:00 AM	0.8943	0.89439			N/A
6/24/2019	EURGBP	1:30:00 PM	0.89391	0.89391			N/A
6/24/2019	EURGBP	3:30:00 PM	0.89447	0.89441			N/A
6/24/2019	EURGBP.fx	9:30:00 AM	0.8922	0.89218			N/A
6/24/2019	EURGBP.fx	11:30:00 AM	0.89433	0.89434			N/A

6/24/2019	EURGBP.fx	1:30:00 PM	0.89395	0.89386			N/A
6/24/2019	EURGBP.fx	3:30:00 PM	0.89452	0.89437			N/A
6/24/2019	EURHKD	9:30:00 AM	8.8923	8.8966			N/A
6/24/2019	EURHKD	11:30:00 AM	8.8985	8.9028			N/A
6/24/2019	EURHKD	1:30:00 PM	8.8974	8.9016			N/A
6/24/2019	EURHKD	3:30:00 PM	8.8956	8.9008			N/A
6/24/2019	EURHKD.fx	9:30:00 AM	8.89516	8.89392			N/A
6/24/2019	EURHKD.fx	11:30:00 AM	8.90128	8.89997			N/A
6/24/2019	EURHKD.fx	1:30:00 PM	8.90015	8.89883			N/A
6/24/2019	EURHKD.fx	3:30:00 PM	8.89843	8.89804			N/A
6/24/2019	EURHUF	9:30:00 AM	323.68	324.34			N/A
6/24/2019	EURHUF	11:30:00 AM	323.86	324.46			N/A
6/24/2019	EURHUF	1:30:00 PM	323.64	324.33			N/A
6/24/2019	EURHUF	3:30:00 PM	323.96	324.43			N/A
6/24/2019	EURHUF.fx	9:30:00 AM	323.919	324.07			N/A
6/24/2019	EURHUF.fx	11:30:00 AM	324.14	324.328			N/A
6/24/2019	EURHUF.fx	1:30:00 PM	323.939	324.08			N/A
6/24/2019	EURHUF.fx	3:30:00 PM	324.279	324.456			N/A
6/24/2019	EURJPY	9:30:00 AM	122.338	122.313			N/A
6/24/2019	EURJPY	11:30:00 AM	122.37	122.369			N/A
6/24/2019	EURJPY	1:30:00 PM	122.29	122.275			N/A
6/24/2019	EURJPY	3:30:00 PM	122.259	122.267			N/A
6/24/2019	EURJPY.fx	9:30:00 AM	122.341	122.309			N/A
6/24/2019	EURJPY.fx	11:30:00 AM	122.373	122.365			N/A
6/24/2019	EURJPY.fx	1:30:00 PM	122.293	122.27			N/A
6/24/2019	EURJPY.fx	3:30:00 PM	122.263	122.263			N/A
6/24/2019	EURMXN	9:30:00 AM	21.7221	21.7382			N/A
6/24/2019	EURMXN	11:30:00 AM	21.7586	21.7735			N/A
6/24/2019	EURMXN	1:30:00 PM	21.7765	21.7951			N/A
6/24/2019	EURMXN	3:30:00 PM	21.8021	21.8196			N/A
6/24/2019	EURMXN.fx	9:30:00 AM	21.7307	21.7295			N/A
6/24/2019	EURMXN.fx	11:30:00 AM	21.7672	21.765			N/A
6/24/2019	EURMXN.fx	1:30:00 PM	21.7847	21.7864			N/A
6/24/2019	EURMXN.fx	3:30:00 PM	21.8113	21.8103			N/A

6/24/2019	EURNOK	9:30:00 AM	9.6503	9.6623			N/A
6/24/2019	EURNOK	11:30:00 AM	9.6511	9.6634			N/A
6/24/2019	EURNOK	1:30:00 PM	9.6462	9.6574			N/A
6/24/2019	EURNOK	3:30:00 PM	9.6593	9.6721			N/A
6/24/2019	EURNOK.fx	9:30:00 AM	9.65571	9.65688			N/A
6/24/2019	EURNOK.fx	11:30:00 AM	9.65663	9.6579			N/A
6/24/2019	EURNOK.fx	1:30:00 PM	9.65169	9.65187			N/A
6/24/2019	EURNOK.fx	3:30:00 PM	9.66489	9.66651			N/A
6/24/2019	EURNZD	9:30:00 AM	1.72148	1.72182			N/A
6/24/2019	EURNZD	11:30:00 AM	1.72284	1.72366			N/A
6/24/2019	EURNZD	1:30:00 PM	1.72347	1.72399			N/A
6/24/2019	EURNZD	3:30:00 PM	1.72446	1.72518			N/A
6/24/2019	EURNZD.fx	9:30:00 AM	1.72187	1.7214			N/A
6/24/2019	EURNZD.fx	11:30:00 AM	1.72324	1.72324			N/A
6/24/2019	EURNZD.fx	1:30:00 PM	1.72389	1.72354			N/A
6/24/2019	EURNZD.fx	3:30:00 PM	1.72487	1.72476			N/A
6/24/2019	EURPLN	9:30:00 AM	4.2525	4.255			N/A
6/24/2019	EURPLN	11:30:00 AM	4.2524	4.2556			N/A
6/24/2019	EURPLN	1:30:00 PM	4.2528	4.2552			N/A
6/24/2019	EURPLN	3:30:00 PM	4.2543	4.2572			N/A
6/24/2019	EURPLN.fx	9:30:00 AM	4.25157	4.25562			N/A
6/24/2019	EURPLN.fx	11:30:00 AM	4.25173	4.25616			N/A
6/24/2019	EURPLN.fx	1:30:00 PM	4.25227	4.25579			N/A
6/24/2019	EURPLN.fx	3:30:00 PM	4.25347	4.25777			N/A
6/24/2019	EURRUB	9:30:00 AM					N/A
6/24/2019	EURRUB	11:30:00 AM	71.274	71.702			N/A
6/24/2019	EURRUB	1:30:00 PM	71.294	71.73			N/A
6/24/2019	EURRUB	3:30:00 PM	71.334	71.748			N/A
6/24/2019	EURSEK	9:30:00 AM	10.6264	10.6291			N/A
6/24/2019	EURSEK	11:30:00 AM	10.618	10.6208			N/A
6/24/2019	EURSEK	1:30:00 PM	10.6087	10.6128			N/A
6/24/2019	EURSEK	3:30:00 PM	10.5989	10.604			N/A
6/24/2019	EURSEK.fx	9:30:00 AM	10.6279	10.6277			N/A
6/24/2019	EURSEK.fx	11:30:00 AM	10.61965	10.61914			N/A

6/24/2019	EURSEK.fx	1:30:00 PM	10.61017	10.61114			N/A
6/24/2019	EURSEK.fx	3:30:00 PM	10.60056	10.60238			N/A
6/24/2019	EURSGD	9:30:00 AM	1.5409	1.5416			N/A
6/24/2019	EURSGD	11:30:00 AM	1.5427	1.5434			N/A
6/24/2019	EURSGD	1:30:00 PM	1.5421	1.5428			N/A
6/24/2019	EURSGD	3:30:00 PM	1.5424	1.5432			N/A
6/24/2019	EURSGD.fx	9:30:00 AM	1.54123	1.54125			N/A
6/24/2019	EURSGD.fx	11:30:00 AM	1.5431	1.54296			N/A
6/24/2019	EURSGD.fx	1:30:00 PM	1.54247	1.54241			N/A
6/24/2019	EURSGD.fx	3:30:00 PM	1.54275	1.54277			N/A
6/24/2019	EURUSD	9:30:00 AM	1.13848	1.13848			N/A
6/24/2019	EURUSD	11:30:00 AM	1.13923	1.13922			N/A
6/24/2019	EURUSD	1:30:00 PM	1.13907	1.13904			N/A
6/24/2019	EURUSD	3:30:00 PM	1.13904	1.13914			N/A
6/24/2019	EURUSD.fx	9:30:00 AM	1.13868	1.13856			N/A
6/24/2019	EURUSD.fx	11:30:00 AM	1.13943	1.13931			N/A
6/24/2019	EURUSD.fx	1:30:00 PM	1.13928	1.13914			N/A
6/24/2019	EURUSD.fx	3:30:00 PM	1.13924	1.13923			N/A
6/24/2019	EURZAR	9:30:00 AM	16.2217	16.2286			N/A
6/24/2019	EURZAR	11:30:00 AM	16.2521	16.2672			N/A
6/24/2019	EURZAR	1:30:00 PM	16.3239	16.3423			N/A
6/24/2019	EURZAR	3:30:00 PM	16.3233	16.3332			N/A
6/24/2019	EURZAR.fx	9:30:00 AM	16.22029	16.22979			N/A
6/24/2019	EURZAR.fx	11:30:00 AM	16.25159	16.26771			N/A
6/24/2019	EURZAR.fx	1:30:00 PM	16.32298	16.34222			N/A
6/24/2019	EURZAR.fx	3:30:00 PM	16.32191	16.33386			N/A
6/24/2019	GBPAUD	9:30:00 AM	1.83378	1.83445			N/A
6/24/2019	GBPAUD	11:30:00 AM	1.83283	1.83352			N/A
6/24/2019	GBPAUD	1:30:00 PM	1.83372	1.83431			N/A
6/24/2019	GBPAUD	3:30:00 PM	1.83167	1.83204			N/A
6/24/2019	GBPAUD.fx	9:30:00 AM	1.83418	1.83407			N/A
6/24/2019	GBPAUD.fx	11:30:00 AM	1.83322	1.83313			N/A
6/24/2019	GBPAUD.fx	1:30:00 PM	1.83411	1.83391			N/A
6/24/2019	GBPAUD.fx	3:30:00 PM	1.83205	1.83166			N/A

6/24/2019	GBPCAD	9:30:00 AM	1.6825	1.6832			N/A
6/24/2019	GBPCAD	11:30:00 AM	1.67955	1.68033			N/A
6/24/2019	GBPCAD	1:30:00 PM	1.6798	1.68033			N/A
6/24/2019	GBPCAD	3:30:00 PM	1.67987	1.68026			N/A
6/24/2019	GBPCAD.fx	9:30:00 AM	1.68288	1.68284			N/A
6/24/2019	GBPCAD.fx	11:30:00 AM	1.67994	1.67994			N/A
6/24/2019	GBPCAD.fx	1:30:00 PM	1.6802	1.67991			N/A
6/24/2019	GBPCAD.fx	3:30:00 PM	1.68026	1.67987			N/A
6/24/2019	GBPCHF	9:30:00 AM	1.24707	1.24736			N/A
6/24/2019	GBPCHF	11:30:00 AM	1.24332	1.24355			N/A
6/24/2019	GBPCHF	1:30:00 PM	1.2425	1.24286			N/A
6/24/2019	GBPCHF	3:30:00 PM	1.24151	1.24172			N/A
6/24/2019	GBPCHF.fx	9:30:00 AM	1.24725	1.24716			N/A
6/24/2019	GBPCHF.fx	11:30:00 AM	1.24351	1.24335			N/A
6/24/2019	GBPCHF.fx	1:30:00 PM	1.24269	1.24265			N/A
6/24/2019	GBPCHF.fx	3:30:00 PM	1.24171	1.24152			N/A
6/24/2019	GBPCZK	9:30:00 AM	28.655	28.674			N/A
6/24/2019	GBPCZK	11:30:00 AM	28.588	28.61			N/A
6/24/2019	GBPCZK	1:30:00 PM	28.606	28.624			N/A
6/24/2019	GBPCZK	3:30:00 PM	28.588	28.605			N/A
6/24/2019	GBPDKK	9:30:00 AM	8.364	8.375			N/A
6/24/2019	GBPDKK	11:30:00 AM	8.344	8.354			N/A
6/24/2019	GBPDKK	1:30:00 PM	8.347	8.358			N/A
6/24/2019	GBPDKK	3:30:00 PM	8.342	8.353			N/A
6/24/2019	GBPDKK.fx	9:30:00 AM	8.3627	8.3753			N/A
6/24/2019	GBPDKK.fx	11:30:00 AM	8.3421	8.3548			N/A
6/24/2019	GBPDKK.fx	1:30:00 PM	8.3463	8.3583			N/A
6/24/2019	GBPDKK.fx	3:30:00 PM	8.3419	8.3531			N/A
6/24/2019	GBPHKD	9:30:00 AM	9.9642	9.9688			N/A
6/24/2019	GBPHKD	11:30:00 AM	9.9466	9.952			N/A
6/24/2019	GBPHKD	1:30:00 PM	9.9513	9.9548			N/A
6/24/2019	GBPHKD	3:30:00 PM	9.9434	9.9473			N/A
6/24/2019	GBPHUF	9:30:00 AM	362.79	363.12			N/A
6/24/2019	GBPHUF	11:30:00 AM	362.13	362.61			N/A

6/24/2019	GBPHUF	1:30:00 PM	362.05	362.47			N/A
6/24/2019	GBPHUF	3:30:00 PM	362.2	362.49			N/A
6/24/2019	GBPJPY	9:30:00 AM	137.1	137.12			N/A
6/24/2019	GBPJPY	11:30:00 AM	136.809	136.85			N/A
6/24/2019	GBPJPY	1:30:00 PM	136.788	136.803			N/A
6/24/2019	GBPJPY	3:30:00 PM	136.679	136.7			N/A
6/24/2019	GBPJPY.fx	9:30:00 AM	137.118	137.1			N/A
6/24/2019	GBPJPY.fx	11:30:00 AM	136.827	136.831			N/A
6/24/2019	GBPJPY.fx	1:30:00 PM	136.808	136.783			N/A
6/24/2019	GBPJPY.fx	3:30:00 PM	136.697	136.68			N/A
6/24/2019	GBPMXN	9:30:00 AM	24.3409	24.3552			N/A
6/24/2019	GBPMXN	11:30:00 AM	24.3245	24.3364			N/A
6/24/2019	GBPMXN	1:30:00 PM	24.357	24.371			N/A
6/24/2019	GBPMXN	3:30:00 PM	24.37	24.3811			N/A
6/24/2019	GBPNOK	9:30:00 AM	10.8181	10.8285			N/A
6/24/2019	GBPNOK	11:30:00 AM	10.7927	10.8042			N/A
6/24/2019	GBPNOK	1:30:00 PM	10.7931	10.8025			N/A
6/24/2019	GBPNOK	3:30:00 PM	10.8015	10.8111			N/A
6/24/2019	GBPNOK.fx	9:30:00 AM	10.82318	10.82383			N/A
6/24/2019	GBPNOK.fx	11:30:00 AM	10.79777	10.79923			N/A
6/24/2019	GBPNOK.fx	1:30:00 PM	10.79832	10.79741			N/A
6/24/2019	GBPNOK.fx	3:30:00 PM	10.8065	10.80614			N/A
6/24/2019	GBPNZD	9:30:00 AM	1.92952	1.92996			N/A
6/24/2019	GBPNZD	11:30:00 AM	1.92651	1.92724			N/A
6/24/2019	GBPNZD	1:30:00 PM	1.92811	1.92855			N/A
6/24/2019	GBPNZD	3:30:00 PM	1.92814	1.92854			N/A
6/24/2019	GBPNZD.fx	9:30:00 AM	1.92987	1.92959			N/A
6/24/2019	GBPNZD.fx	11:30:00 AM	1.92684	1.92688			N/A
6/24/2019	GBPNZD.fx	1:30:00 PM	1.92845	1.92818			N/A
6/24/2019	GBPNZD.fx	3:30:00 PM	1.9285	1.92818			N/A
6/24/2019	GBPPLN	9:30:00 AM	4.7671	4.7682			N/A
6/24/2019	GBPPLN	11:30:00 AM	4.7559	4.7574			N/A
6/24/2019	GBPPLN	1:30:00 PM	4.7583	4.7598			N/A
6/24/2019	GBPPLN	3:30:00 PM	4.7574	4.7584			N/A

6/24/2019	GBPPLN.fx	9:30:00 AM	4.76452	4.77046			N/A
6/24/2019	GBPPLN.fx	11:30:00 AM	4.75364	4.7596			N/A
6/24/2019	GBPPLN.fx	1:30:00 PM	4.75604	4.76197			N/A
6/24/2019	GBPPLN.fx	3:30:00 PM	4.75524	4.76071			N/A
6/24/2019	GBPSEK	9:30:00 AM	11.9085	11.9151			N/A
6/24/2019	GBPSEK	11:30:00 AM	11.8707	11.8781			N/A
6/24/2019	GBPSEK	1:30:00 PM	11.8666	11.8748			N/A
6/24/2019	GBPSEK	3:30:00 PM	11.8492	11.8563			N/A
6/24/2019	GBPSEK.fx	9:30:00 AM	11.9044	11.91933			N/A
6/24/2019	GBPSEK.fx	11:30:00 AM	11.8672	11.88151			N/A
6/24/2019	GBPSEK.fx	1:30:00 PM	11.8636	11.87837			N/A
6/24/2019	GBPSEK.fx	3:30:00 PM	11.84564	11.86037			N/A
6/24/2019	GBPSGD	9:30:00 AM	1.7271	1.7278			N/A
6/24/2019	GBPSGD	11:30:00 AM	1.725	1.7257			N/A
6/24/2019	GBPSGD	1:30:00 PM	1.7253	1.7257			N/A
6/24/2019	GBPSGD	3:30:00 PM	1.7246	1.7251			N/A
6/24/2019	GBPSGD.fx	9:30:00 AM	1.72524	1.72957			N/A
6/24/2019	GBPSGD.fx	11:30:00 AM	1.72314	1.72746			N/A
6/24/2019	GBPSGD.fx	1:30:00 PM	1.72335	1.72754			N/A
6/24/2019	GBPSGD.fx	3:30:00 PM	1.72277	1.72686			N/A
6/24/2019	GBPUSD	9:30:00 AM	1.27616	1.2761			N/A
6/24/2019	GBPUSD	11:30:00 AM	1.27393	1.27399			N/A
6/24/2019	GBPUSD	1:30:00 PM	1.27446	1.27429			N/A
6/24/2019	GBPUSD	3:30:00 PM	1.27374	1.27356			N/A
6/24/2019	GBPUSD.fx	9:30:00 AM	1.2762	1.27604			N/A
6/24/2019	GBPUSD.fx	11:30:00 AM	1.27398	1.27393			N/A
6/24/2019	GBPUSD.fx	1:30:00 PM	1.27452	1.27423			N/A
6/24/2019	GBPUSD.fx	3:30:00 PM	1.27379	1.27349			N/A
6/24/2019	GBPZAR	9:30:00 AM	18.1762	18.1942			N/A
6/24/2019	GBPZAR	11:30:00 AM	18.1685	18.1928			N/A
6/24/2019	GBPZAR	1:30:00 PM	18.2585	18.2853			N/A
6/24/2019	GBPZAR	3:30:00 PM	18.247	18.2648			N/A
6/24/2019	GBPZAR.fx	9:30:00 AM	18.1834	18.1871			N/A
6/24/2019	GBPZAR.fx	11:30:00 AM	18.1758	18.1856			N/A

6/24/2019	GBPZAR.fx	1:30:00 PM	18.2652	18.2776			N/A
6/24/2019	GBPZAR.fx	3:30:00 PM	18.2536	18.2572			N/A
6/24/2019	GOLD	9:30:00 AM	1404.87	1404.84			N/A
6/24/2019	GOLD	11:30:00 AM	1404.14	1404.34			N/A
6/24/2019	GOLD	1:30:00 PM	1407.64	1407.75			N/A
6/24/2019	GOLD	3:30:00 PM	1406.89	1406.36			N/A
6/24/2019	HKDJPY	9:30:00 AM	13.75	13.76			N/A
6/24/2019	HKDJPY	11:30:00 AM	13.75	13.76			N/A
6/24/2019	HKDJPY	1:30:00 PM	13.74	13.75			N/A
6/24/2019	HKDJPY	3:30:00 PM	13.73	13.75			N/A
6/24/2019	HKDJPY.fx	9:30:00 AM	13.749	13.754			N/A
6/24/2019	HKDJPY.fx	11:30:00 AM	13.745	13.752			N/A
6/24/2019	HKDJPY.fx	1:30:00 PM	13.736	13.743			N/A
6/24/2019	HKDJPY.fx	3:30:00 PM	13.736	13.743			N/A
6/24/2019	HUFJPY	9:30:00 AM	0.3778	0.378			N/A
6/24/2019	HUFJPY	11:30:00 AM	0.3775	0.3778			N/A
6/24/2019	HUFJPY	1:30:00 PM	0.3776	0.378			N/A
6/24/2019	HUFJPY	3:30:00 PM	0.3773	0.3777			N/A
6/24/2019	JP225.i	9:30:00 AM	21285.09	21300.09			N/A
6/24/2019	JP225.i	11:30:00 AM	21255.09	21275.09			N/A
6/24/2019	JP225.i	1:30:00 PM	21245.09	21260.09			N/A
6/24/2019	JP225.i	3:30:00 PM					N/A
6/24/2019	MXNJPY	9:30:00 AM	5.63	5.64			N/A
6/24/2019	MXNJPY	11:30:00 AM					N/A
6/24/2019	MXNJPY	1:30:00 PM	5.61	5.62			N/A
6/24/2019	MXNJPY	3:30:00 PM	5.61	5.62			N/A
6/24/2019	NASDAQ.i	9:30:00 AM					N/A
6/24/2019	NASDAQ.i	11:30:00 AM					N/A
6/24/2019	NASDAQ.i	1:30:00 PM					N/A
6/24/2019	NASDAQ.i	3:30:00 PM					N/A
6/24/2019	NOKJPY	9:30:00 AM	12.66	12.69			N/A
6/24/2019	NOKJPY	11:30:00 AM					N/A
6/24/2019	NOKJPY	1:30:00 PM	12.66	12.69			N/A
6/24/2019	NOKJPY	3:30:00 PM	12.64	12.67			N/A

6/24/2019	NOKJPY.fx	9:30:00 AM	12.666	12.67			N/A
6/24/2019	NOKJPY.fx	11:30:00 AM	12.669	12.675			N/A
6/24/2019	NOKJPY.fx	1:30:00 PM	12.667	12.673			N/A
6/24/2019	NOKJPY.fx	3:30:00 PM	12.645	12.653			N/A
6/24/2019	NZDCAD	9:30:00 AM	0.87178	0.87238			N/A
6/24/2019	NZDCAD	11:30:00 AM	0.87154	0.87216			N/A
6/24/2019	NZDCAD	1:30:00 PM	0.87098	0.87148			N/A
6/24/2019	NZDCAD	3:30:00 PM	0.87092	0.87159			N/A
6/24/2019	NZDCAD.fx	9:30:00 AM	0.87212	0.87203			N/A
6/24/2019	NZDCAD.fx	11:30:00 AM	0.87187	0.87183			N/A
6/24/2019	NZDCAD.fx	1:30:00 PM	0.87132	0.87114			N/A
6/24/2019	NZDCAD.fx	3:30:00 PM	0.87125	0.87126			N/A
6/24/2019	NZDCHF	9:30:00 AM	0.64608	0.64662			N/A
6/24/2019	NZDCHF	11:30:00 AM	0.64503	0.64561			N/A
6/24/2019	NZDCHF	1:30:00 PM	0.6441	0.64478			N/A
6/24/2019	NZDCHF	3:30:00 PM	0.64354	0.64421			N/A
6/24/2019	NZDCHF.fx	9:30:00 AM	0.64642	0.64627			N/A
6/24/2019	NZDCHF.fx	11:30:00 AM	0.64537	0.64526			N/A
6/24/2019	NZDCHF.fx	1:30:00 PM	0.64444	0.64442			N/A
6/24/2019	NZDCHF.fx	3:30:00 PM	0.64388	0.64386			N/A
6/24/2019	NZDCZK	9:30:00 AM	14.85	14.859			N/A
6/24/2019	NZDCZK	11:30:00 AM					N/A
6/24/2019	NZDCZK	1:30:00 PM	14.834	14.844			N/A
6/24/2019	NZDCZK	3:30:00 PM	14.823	14.834			N/A
6/24/2019	NZDDKK	9:30:00 AM	4.335	4.339			N/A
6/24/2019	NZDDKK	11:30:00 AM	4.33	4.334			N/A
6/24/2019	NZDDKK	1:30:00 PM	4.33	4.333			N/A
6/24/2019	NZDDKK	3:30:00 PM	4.326	4.33			N/A
6/24/2019	NZDHKD	9:30:00 AM	5.1628	5.1657			N/A
6/24/2019	NZDHKD	11:30:00 AM	5.1622	5.1651			N/A
6/24/2019	NZDHKD	1:30:00 PM	5.1601	5.1623			N/A
6/24/2019	NZDHKD	3:30:00 PM	5.1553	5.1583			N/A
6/24/2019	NZDHUF	9:30:00 AM	187.98	188.15			N/A
6/24/2019	NZDHUF	11:30:00 AM	187.91	188.2			N/A

6/24/2019	NZDHUF	1:30:00 PM	187.72	187.98			N/A
6/24/2019	NZDHUF	3:30:00 PM	187.78	188			N/A
6/24/2019	NZDJPY	9:30:00 AM	71.014	71.081			N/A
6/24/2019	NZDJPY	11:30:00 AM	70.978	71.044			N/A
6/24/2019	NZDJPY	1:30:00 PM	70.912	70.965			N/A
6/24/2019	NZDJPY	3:30:00 PM	70.85	70.921			N/A
6/24/2019	NZDJPY.fx	9:30:00 AM	71.046	71.049			N/A
6/24/2019	NZDJPY.fx	11:30:00 AM	71.009	71.012			N/A
6/24/2019	NZDJPY.fx	1:30:00 PM	70.945	70.932			N/A
6/24/2019	NZDJPY.fx	3:30:00 PM	70.882	70.889			N/A
6/24/2019	NZDMXN	9:30:00 AM	12.6133	12.6174			N/A
6/24/2019	NZDMXN	11:30:00 AM	12.6235	12.6279			N/A
6/24/2019	NZDMXN	1:30:00 PM	12.6308	12.6352			N/A
6/24/2019	NZDMXN	3:30:00 PM	12.6379	12.6408			N/A
6/24/2019	NZDNOK	9:30:00 AM	5.605	5.6075			N/A
6/24/2019	NZDNOK	11:30:00 AM	5.6005	5.6039			N/A
6/24/2019	NZDNOK	1:30:00 PM	5.5964	5.5988			N/A
6/24/2019	NZDNOK	3:30:00 PM	5.5992	5.6008			N/A
6/24/2019	NZDPLN	9:30:00 AM	2.4689	2.4702			N/A
6/24/2019	NZDPLN	11:30:00 AM	2.4673	2.4688			N/A
6/24/2019	NZDPLN	1:30:00 PM	2.4666	2.4675			N/A
6/24/2019	NZDPLN	3:30:00 PM	2.4653	2.4664			N/A
6/24/2019	NZDSEK	9:30:00 AM	6.1673	6.1724			N/A
6/24/2019	NZDSEK	11:30:00 AM	6.1562	6.1631			N/A
6/24/2019	NZDSEK	1:30:00 PM	6.1509	6.1563			N/A
6/24/2019	NZDSEK	3:30:00 PM	6.1396	6.1463			N/A
6/24/2019	NZDSGD	9:30:00 AM	0.895	0.8955			N/A
6/24/2019	NZDSGD	11:30:00 AM	0.8951	0.8955			N/A
6/24/2019	NZDSGD	1:30:00 PM	0.8946	0.8951			N/A
6/24/2019	NZDSGD	3:30:00 PM	0.8942	0.8943			N/A
6/24/2019	NZDSGD.fx	9:30:00 AM	0.89498	0.89541			N/A
6/24/2019	NZDSGD.fx	11:30:00 AM	0.89512	0.89561			N/A
6/24/2019	NZDSGD.fx	1:30:00 PM	0.89458	0.895			N/A
6/24/2019	NZDSGD.fx	3:30:00 PM	0.89416	0.89472			N/A

6/24/2019	NZDUSD	9:30:00 AM	0.6613	0.66131			N/A
6/24/2019	NZDUSD	11:30:00 AM	0.66107	0.66116			N/A
6/24/2019	NZDUSD	1:30:00 PM	0.66084	0.66082			N/A
6/24/2019	NZDUSD	3:30:00 PM	0.66043	0.66051			N/A
6/24/2019	NZDUSD.fx	9:30:00 AM	0.66137	0.66133			N/A
6/24/2019	NZDUSD.fx	11:30:00 AM	0.66114	0.66118			N/A
6/24/2019	NZDUSD.fx	1:30:00 PM	0.66092	0.66084			N/A
6/24/2019	NZDUSD.fx	3:30:00 PM	0.6605	0.66053			N/A
6/24/2019	NZDZAR	9:30:00 AM	9.4135	9.4264			N/A
6/24/2019	NZDZAR	11:30:00 AM	9.4243	9.439			N/A
6/24/2019	NZDZAR	1:30:00 PM	9.4629	9.4782			N/A
6/24/2019	NZDZAR	3:30:00 PM	9.4527	9.4669			N/A
6/24/2019	SEKJPY	9:30:00 AM	11.51	11.52			N/A
6/24/2019	SEKJPY	11:30:00 AM	11.52	11.53			N/A
6/24/2019	SEKJPY	1:30:00 PM	11.53	11.53			N/A
6/24/2019	SEKJPY	3:30:00 PM	11.53	11.54			N/A
6/24/2019	SEKJPY.fx	9:30:00 AM	11.503	11.517			N/A
6/24/2019	SEKJPY.fx	11:30:00 AM	11.515	11.53			N/A
6/24/2019	SEKJPY.fx	1:30:00 PM	11.516	11.532			N/A
6/24/2019	SEKJPY.fx	3:30:00 PM	11.523	11.541			N/A
6/24/2019	SGDJPY	9:30:00 AM	79.33	79.36			N/A
6/24/2019	SGDJPY	11:30:00 AM	79.28	79.3			N/A
6/24/2019	SGDJPY	1:30:00 PM	79.31	79.27			N/A
6/24/2019	SGDJPY	3:30:00 PM	79.22	79.25			N/A
6/24/2019	SILVER	9:30:00 AM	15.18	15.56			N/A
6/24/2019	SILVER	11:30:00 AM	15.17	15.55			N/A
6/24/2019	SILVER	1:30:00 PM	15.2	15.57			N/A
6/24/2019	SILVER	3:30:00 PM	15.14	15.51			N/A
6/24/2019	SPX500.i	9:30:00 AM	2956.88	2957.68			N/A
6/24/2019	SPX500.i	11:30:00 AM	2954.78	2955.85			N/A
6/24/2019	SPX500.i	1:30:00 PM	2955.38	2956.43			N/A
6/24/2019	SPX500.i	3:30:00 PM	2952.63	2953.68			N/A
6/24/2019	UK100.i	9:30:00 AM	7406.44	7407.94			N/A
6/24/2019	UK100.i	11:30:00 AM	7421.53	7422.36			N/A

6/24/2019	UK100.i	1:30:00 PM	7420.19	7421.19			N/A
6/24/2019	UK100.i	3:30:00 PM	7423.19	7424.61			N/A
6/24/2019	USDCAD	9:30:00 AM	1.31867	1.31875			N/A
6/24/2019	USDCAD	11:30:00 AM	1.31869	1.31877			N/A
6/24/2019	USDCAD	1:30:00 PM	1.31831	1.31835	1000	1000	N/A
6/24/2019	USDCAD	3:30:00 PM	1.31913	1.3191			N/A
6/24/2019	USDCAD.fx	9:30:00 AM	1.31869	1.31871			N/A
6/24/2019	USDCAD.fx	11:30:00 AM	1.31872	1.31873			N/A
6/24/2019	USDCAD.fx	1:30:00 PM	1.31834	1.31831			N/A
6/24/2019	USDCAD.fx	3:30:00 PM	1.31915	1.31907			N/A
6/24/2019	USDCHF	9:30:00 AM	0.97733	0.97733			N/A
6/24/2019	USDCHF	11:30:00 AM	0.97605	0.97603			N/A
6/24/2019	USDCHF	1:30:00 PM	0.97514	0.97512			N/A
6/24/2019	USDCHF	3:30:00 PM	0.97478	0.97488			N/A
6/24/2019	USDCHF.fx	9:30:00 AM	0.97737	0.97727			N/A
6/24/2019	USDCHF.fx	11:30:00 AM	0.97611	0.97598			N/A
6/24/2019	USDCHF.fx	1:30:00 PM	0.97518	0.97505			N/A
6/24/2019	USDCHF.fx	3:30:00 PM	0.97482	0.97481			N/A
6/24/2019	USDCZK	9:30:00 AM	22.472	22.492			N/A
6/24/2019	USDCZK	11:30:00 AM	22.459	22.479			N/A
6/24/2019	USDCZK	1:30:00 PM	22.464	22.484			N/A
6/24/2019	USDCZK	3:30:00 PM	22.462	22.485			N/A
6/24/2019	USDCZK.fx	9:30:00 AM	22.479	22.4849			N/A
6/24/2019	USDCZK.fx	11:30:00 AM	22.467	22.47			N/A
6/24/2019	USDCZK.fx	1:30:00 PM	22.473	22.4742			N/A
6/24/2019	USDCZK.fx	3:30:00 PM	22.4719	22.475			N/A
6/24/2019	USDDKK	9:30:00 AM	6.5569	6.56			N/A
6/24/2019	USDDKK	11:30:00 AM	6.5521	6.5554			N/A
6/24/2019	USDDKK	1:30:00 PM	6.553	6.5563			N/A
6/24/2019	USDDKK	3:30:00 PM	6.5526	6.5565			N/A
6/24/2019	USDDKK.fx	9:30:00 AM	6.55725	6.55797			N/A
6/24/2019	USDDKK.fx	11:30:00 AM	6.5526	6.55334			N/A
6/24/2019	USDDKK.fx	1:30:00 PM	6.55344	6.55418			N/A
6/24/2019	USDDKK.fx	3:30:00 PM	6.55308	6.5544			N/A

6/24/2019	USDHKD	9:30:00 AM	7.8115	7.8118			N/A
6/24/2019	USDHKD	11:30:00 AM	7.8117	7.812			N/A
6/24/2019	USDHKD	1:30:00 PM	7.8117	7.8121			N/A
6/24/2019	USDHKD	3:30:00 PM	7.8102	7.8107			N/A
6/24/2019	USDHKD.fx	9:30:00 AM	7.81144	7.81194			N/A
6/24/2019	USDHKD.fx	11:30:00 AM	7.81164	7.81205			N/A
6/24/2019	USDHKD.fx	1:30:00 PM	7.81173	7.81226			N/A
6/24/2019	USDHKD.fx	3:30:00 PM	7.81041	7.81099			N/A
6/24/2019	USDHUF	9:30:00 AM	284.37	284.75			N/A
6/24/2019	USDHUF	11:30:00 AM	284.35	284.8			N/A
6/24/2019	USDHUF	1:30:00 PM	284.2	284.64			N/A
6/24/2019	USDHUF	3:30:00 PM	284.49	284.95			N/A
6/24/2019	USDHUF.fx	9:30:00 AM	284.533	284.569			N/A
6/24/2019	USDHUF.fx	11:30:00 AM	284.546	284.605			N/A
6/24/2019	USDHUF.fx	1:30:00 PM	284.413	284.423			N/A
6/24/2019	USDHUF.fx	3:30:00 PM	284.685	284.746			N/A
6/24/2019	USDINR	9:30:00 AM	64.48	74.47			N/A
6/24/2019	USDINR	11:30:00 AM					N/A
6/24/2019	USDINR	1:30:00 PM					N/A
6/24/2019	USDINR	3:30:00 PM					N/A
6/24/2019	USDJPY	9:30:00 AM	107.433	107.429			N/A
6/24/2019	USDJPY	11:30:00 AM	107.406	107.41			N/A
6/24/2019	USDJPY	1:30:00 PM	107.336	107.343			N/A
6/24/2019	USDJPY	3:30:00 PM	107.319	107.326			N/A
6/24/2019	USDJPY.fx	9:30:00 AM	107.439	107.422			N/A
6/24/2019	USDJPY.fx	11:30:00 AM	107.412	107.403			N/A
6/24/2019	USDJPY.fx	1:30:00 PM	107.342	107.336			N/A
6/24/2019	USDJPY.fx	3:30:00 PM	107.325	107.319			N/A
6/24/2019	USDMXN	9:30:00 AM	19.084	19.088			N/A
6/24/2019	USDMXN	11:30:00 AM	19.102	19.109			N/A
6/24/2019	USDMXN	1:30:00 PM	19.12	19.127			N/A
6/24/2019	USDMXN	3:30:00 PM	19.141	19.149			N/A
6/24/2019	USDMXN.f	9:30:00 AM					N/A
6/24/2019	USDMXN.f	11:30:00 AM					N/A

6/24/2019	USDMXN.f	1:30:00 PM					N/A
6/24/2019	USDMXN.f	3:30:00 PM					N/A
6/24/2019	USDNOK	9:30:00 AM	8.477	8.4845			N/A
6/24/2019	USDNOK	11:30:00 AM	8.4721	8.4802			N/A
6/24/2019	USDNOK	1:30:00 PM	8.4683	8.4765			N/A
6/24/2019	USDNOK	3:30:00 PM	8.4802	8.489			N/A
6/24/2019	USDNOK.fx	9:30:00 AM	8.481	8.47994			N/A
6/24/2019	USDNOK.fx	11:30:00 AM	8.47628	8.47587			N/A
6/24/2019	USDNOK.fx	1:30:00 PM	8.47266	8.47188			N/A
6/24/2019	USDNOK.fx	3:30:00 PM	8.48408	8.48452			N/A
6/24/2019	USDPLN	9:30:00 AM	3.7354	3.7363			N/A
6/24/2019	USDPLN	11:30:00 AM	3.7331	3.7342			N/A
6/24/2019	USDPLN	1:30:00 PM	3.734	3.7345			N/A
6/24/2019	USDPLN	3:30:00 PM	3.7347	3.7364			N/A
6/24/2019	USDPLN.fx	9:30:00 AM	3.73448	3.73703			N/A
6/24/2019	USDPLN.fx	11:30:00 AM	3.73227	3.73498			N/A
6/24/2019	USDPLN.fx	1:30:00 PM	3.73318	3.73537			N/A
6/24/2019	USDPLN.fx	3:30:00 PM	3.73398	3.73711			N/A
6/24/2019	USDRUB	9:30:00 AM					N/A
6/24/2019	USDRUB	11:30:00 AM	62.668	63.046			N/A
6/24/2019	USDRUB	1:30:00 PM	62.69	63.088			N/A
6/24/2019	USDRUB	3:30:00 PM	62.726	63.117			N/A
6/24/2019	USDSEK	9:30:00 AM	9.3321	9.3343			N/A
6/24/2019	USDSEK	11:30:00 AM	9.3197	9.3218			N/A
6/24/2019	USDSEK	1:30:00 PM	9.3123	9.3149			N/A
6/24/2019	USDSEK	3:30:00 PM	9.3033	9.3077			N/A
6/24/2019	USDSEK.fx	9:30:00 AM	9.33436	9.33278			N/A
6/24/2019	USDSEK.fx	11:30:00 AM	9.32217	9.31999			N/A
6/24/2019	USDSEK.fx	1:30:00 PM	9.31497	9.31301			N/A
6/24/2019	USDSEK.fx	3:30:00 PM	9.30598	9.30577			N/A
6/24/2019	USDSGD	9:30:00 AM	1.3535	1.3538			N/A
6/24/2019	USDSGD	11:30:00 AM	1.3541	1.3545			N/A
6/24/2019	USDSGD	1:30:00 PM	1.3538	1.3541			N/A
6/24/2019	USDSGD	3:30:00 PM	1.354	1.3542			N/A

6/24/2019	USDSGD.fx	9:30:00 AM	1.35337	1.3538			N/A
6/24/2019	USDSGD.fx	11:30:00 AM	1.35404	1.3545			N/A
6/24/2019	USDSGD.fx	1:30:00 PM	1.35374	1.35421			N/A
6/24/2019	USDSGD.fx	3:30:00 PM	1.35394	1.35437			N/A
6/24/2019	USDZAR	9:30:00 AM	14.2463	14.2533			N/A
6/24/2019	USDZAR	11:30:00 AM	14.2648	14.2781			N/A
6/24/2019	USDZAR	1:30:00 PM	14.3281	14.3469			N/A
6/24/2019	USDZAR	3:30:00 PM	14.3277	14.3379			N/A
6/24/2019	USDZAR.fx	9:30:00 AM	14.25207	14.24782			N/A
6/24/2019	USDZAR.fx	11:30:00 AM	14.27094	14.27206			N/A
6/24/2019	USDZAR.fx	1:30:00 PM	14.33357	14.34052			N/A
6/24/2019	USDZAR.fx	3:30:00 PM	14.33313	14.3321			N/A
6/24/2019	XAUUSD	9:30:00 AM	1404.87	1404.86			N/A
6/24/2019	XAUUSD	11:30:00 AM	1404.14	1404.34			N/A
6/24/2019	XAUUSD	1:30:00 PM	1407.65	1407.75			N/A
6/24/2019	XAUUSD	3:30:00 PM	1406.89	1406.36			N/A
6/24/2019	ZARJPY	9:30:00 AM	7.52	7.54			N/A
6/24/2019	ZARJPY	11:30:00 AM	7.51	7.53			N/A
6/24/2019	ZARJPY	1:30:00 PM	7.47	7.49			N/A
6/24/2019	ZARJPY	3:30:00 PM	7.47	7.49			N/A
6/24/2019	ZARJPY.fx	9:30:00 AM	7.538	7.539			N/A
6/24/2019	ZARJPY.fx	11:30:00 AM	7.524	7.527			N/A
6/24/2019	ZARJPY.fx	1:30:00 PM	7.484	7.489			N/A
6/24/2019	ZARJPY.fx	3:30:00 PM	7.487	7.488			N/A
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6/25/2019	#ZNGA	3:30:00 PM					N/A
6/25/2019	AUDCAD	9:30:00 AM	0.91741	0.91811			N/A
6/25/2019	AUDCAD	11:30:00 AM	0.91753	0.91822			N/A
6/25/2019	AUDCAD	1:30:00 PM	0.91789	0.91864			N/A
6/25/2019	AUDCAD	3:30:00 PM	0.9176	0.91819			N/A
6/25/2019	AUDCAD.fx	9:30:00 AM	0.91775	0.91777			N/A
6/25/2019	AUDCAD.fx	11:30:00 AM	0.91786	0.91787			N/A
6/25/2019	AUDCAD.fx	1:30:00 PM	0.91822	0.91829			N/A
6/25/2019	AUDCAD.fx	3:30:00 PM	0.91793	0.91783			N/A

6/25/2019	AUDCHF	9:30:00 AM	0.67572	0.67645			N/A
6/25/2019	AUDCHF	11:30:00 AM	0.67915	0.67974			N/A
6/25/2019	AUDCHF	1:30:00 PM	0.67987	0.68061			N/A
6/25/2019	AUDCHF	3:30:00 PM	0.67919	0.67987			N/A
6/25/2019	AUDCHF.fx	9:30:00 AM	0.67607	0.6761			N/A
6/25/2019	AUDCHF.fx	11:30:00 AM	0.67949	0.67939			N/A
6/25/2019	AUDCHF.fx	1:30:00 PM	0.68023	0.68025			N/A
6/25/2019	AUDCHF.fx	3:30:00 PM	0.67954	0.67952			N/A
6/25/2019	AUDCZK	9:30:00 AM	15.59	15.605			N/A
6/25/2019	AUDCZK	11:30:00 AM	15.615	15.632			N/A
6/25/2019	AUDCZK	1:30:00 PM	15.624	15.641			N/A
6/25/2019	AUDCZK	3:30:00 PM	15.614	15.63			N/A
6/25/2019	AUDDKK	9:30:00 AM	4.555	4.5597			N/A
6/25/2019	AUDDKK	11:30:00 AM	4.5653	4.5699			N/A
6/25/2019	AUDDKK	1:30:00 PM	4.568	4.5727			N/A
6/25/2019	AUDDKK	3:30:00 PM	4.5667	4.5711			N/A
6/25/2019	AUDHKD	9:30:00 AM					N/A
6/25/2019	AUDHKD	11:30:00 AM	5.4347	5.4386			N/A
6/25/2019	AUDHKD	1:30:00 PM	5.4369	5.4407			N/A
6/25/2019	AUDHKD	3:30:00 PM	5.4401	5.4433			N/A
6/25/2019	AUDHUF	9:30:00 AM	197.44	197.68			N/A
6/25/2019	AUDHUF	11:30:00 AM	198.13	198.36			N/A
6/25/2019	AUDHUF	1:30:00 PM	198.25	198.48			N/A
6/25/2019	AUDHUF	3:30:00 PM	198.21	198.37			N/A
6/25/2019	AUDJPY	9:30:00 AM	74.408	74.472			N/A
6/25/2019	AUDJPY	11:30:00 AM	74.541	74.598			N/A
6/25/2019	AUDJPY	1:30:00 PM	74.527	74.6			N/A
6/25/2019	AUDJPY	3:30:00 PM	74.61	74.67			N/A
6/25/2019	AUDJPY.fx	9:30:00 AM	74.443	74.436			N/A
6/25/2019	AUDJPY.fx	11:30:00 AM	74.575	74.563			N/A
6/25/2019	AUDJPY.fx	1:30:00 PM	74.561	74.565			N/A
6/25/2019	AUDJPY.fx	3:30:00 PM	74.644	74.635			N/A
6/25/2019	AUDMXN	9:30:00 AM	13.3387	13.349			N/A
6/25/2019	AUDMXN	11:30:00 AM	13.3948	13.404			N/A

6/25/2019	AUDMXN	1:30:00 PM	13.3891	13.3991			N/A
6/25/2019	AUDMXN	3:30:00 PM	13.3941	13.4017			N/A
6/25/2019	AUDNOK	9:30:00 AM	5.9087	5.9136			N/A
6/25/2019	AUDNOK	11:30:00 AM	5.9222	5.9267			N/A
6/25/2019	AUDNOK	1:30:00 PM	5.928	5.9326			N/A
6/25/2019	AUDNOK	3:30:00 PM	5.9265	5.9314			N/A
6/25/2019	AUDNOK.fx	9:30:00 AM	5.9102	5.912			N/A
6/25/2019	AUDNOK.fx	11:30:00 AM	5.9236	5.9251			N/A
6/25/2019	AUDNOK.fx	1:30:00 PM	5.9295	5.9309			N/A
6/25/2019	AUDNOK.fx	3:30:00 PM	5.9281	5.9297			N/A
6/25/2019	AUDNZD	9:30:00 AM	1.04742	1.04836			N/A
6/25/2019	AUDNZD	11:30:00 AM	1.04727	1.0482			N/A
6/25/2019	AUDNZD	1:30:00 PM	1.04816	1.04911			N/A
6/25/2019	AUDNZD	3:30:00 PM	1.04805	1.04896			N/A
6/25/2019	AUDNZD.fx	9:30:00 AM	1.04786	1.04791			N/A
6/25/2019	AUDNZD.fx	11:30:00 AM	1.04771	1.04774			N/A
6/25/2019	AUDNZD.fx	1:30:00 PM	1.0486	1.04866			N/A
6/25/2019	AUDNZD.fx	3:30:00 PM	1.04849	1.04851			N/A
6/25/2019	AUDPLN	9:30:00 AM	2.5956	2.5979			N/A
6/25/2019	AUDPLN	11:30:00 AM	2.6025	2.6058			N/A
6/25/2019	AUDPLN	1:30:00 PM	2.6018	2.6051			N/A
6/25/2019	AUDPLN	3:30:00 PM	2.6029	2.6059			N/A
6/25/2019	AUDSEK	9:30:00 AM	6.4598	6.4626			N/A
6/25/2019	AUDSEK	11:30:00 AM	6.4527	6.4545			N/A
6/25/2019	AUDSEK	1:30:00 PM	6.446	6.449			N/A
6/25/2019	AUDSEK	3:30:00 PM	6.4438	6.4462			N/A
6/25/2019	AUDSEK.fx	9:30:00 AM	6.4549	6.4673			N/A
6/25/2019	AUDSEK.fx	11:30:00 AM	6.448	6.459			N/A
6/25/2019	AUDSEK.fx	1:30:00 PM	6.4413	6.4535			N/A
6/25/2019	AUDSEK.fx	3:30:00 PM	6.4391	6.4509			N/A
6/25/2019	AUDSGD	9:30:00 AM	0.9419	0.9422			N/A
6/25/2019	AUDSGD	11:30:00 AM	0.9424	0.9427			N/A
6/25/2019	AUDSGD	1:30:00 PM	0.9432	0.9434			N/A
6/25/2019	AUDSGD	3:30:00 PM	0.9432	0.9435			N/A

6/25/2019	AUDSGD.fx	9:30:00 AM	0.94201	0.94215			N/A
6/25/2019	AUDSGD.fx	11:30:00 AM	0.94249	0.94261			N/A
6/25/2019	AUDSGD.fx	1:30:00 PM	0.94325	0.94337			N/A
6/25/2019	AUDSGD.fx	3:30:00 PM	0.94341	0.94346			N/A
6/25/2019	AUDUSD	9:30:00 AM	0.69586	0.696			N/A
6/25/2019	AUDUSD	11:30:00 AM	0.6966	0.69671			N/A
6/25/2019	AUDUSD	1:30:00 PM	0.69689	0.69703			N/A
6/25/2019	AUDUSD	3:30:00 PM	0.69713	0.69719			N/A
6/25/2019	AUDUSD.fx	9:30:00 AM	0.69591	0.69594			N/A
6/25/2019	AUDUSD.fx	11:30:00 AM	0.69665	0.69665			N/A
6/25/2019	AUDUSD.fx	1:30:00 PM	0.69694	0.69697			N/A
6/25/2019	AUDUSD.fx	3:30:00 PM	0.69719	0.69714			N/A
6/25/2019	AUDZAR	9:30:00 AM	9.9815	9.9955			N/A
6/25/2019	AUDZAR	11:30:00 AM	9.9489	9.9586			N/A
6/25/2019	AUDZAR	1:30:00 PM	9.9559	9.9707			N/A
6/25/2019	AUDZAR	3:30:00 PM	9.9552	9.9687			N/A
6/25/2019	AUS200.i	9:30:00 AM	6665.5	6667			N/A
6/25/2019	AUS200.i	11:30:00 AM	6669.52	6671.92			N/A
6/25/2019	AUS200.i	1:30:00 PM	6664.62	6668.12			N/A
6/25/2019	AUS200.i	3:30:00 PM	6668.32	6671.52			N/A
6/25/2019	BCHUSD	9:30:00 AM	498.09	499.27			N/A
6/25/2019	BCHUSD	11:30:00 AM	493.32	494.33			N/A
6/25/2019	BCHUSD	1:30:00 PM	490.28	492.2			N/A
6/25/2019	BCHUSD	3:30:00 PM	483.38	484.98			N/A
6/25/2019	CADCHF	9:30:00 AM	0.73632	0.73699			N/A
6/25/2019	CADCHF	11:30:00 AM	0.73992	0.74052			N/A
6/25/2019	CADCHF	1:30:00 PM	0.74041	0.74116			N/A
6/25/2019	CADCHF	3:30:00 PM	0.73997	0.74065			N/A
6/25/2019	CADCHF.fx	9:30:00 AM	0.73666	0.73664			N/A
6/25/2019	CADCHF.fx	11:30:00 AM	0.74026	0.74016			N/A
6/25/2019	CADCHF.fx	1:30:00 PM	0.74075	0.7408			N/A
6/25/2019	CADCHF.fx	3:30:00 PM	0.74031	0.74033			N/A
6/25/2019	CADCZK	9:30:00 AM	16.99	17.006			N/A
6/25/2019	CADCZK	11:30:00 AM	17.016	17.034			N/A

6/25/2019	CADCZK	1:30:00 PM	17.017	17.035			N/A
6/25/2019	CADCZK	3:30:00 PM	17.017	17.032			N/A
6/25/2019	CADDKK	9:30:00 AM					N/A
6/25/2019	CADDKK	11:30:00 AM					N/A
6/25/2019	CADDKK	1:30:00 PM					N/A
6/25/2019	CADDKK	3:30:00 PM	4.976	4.979			N/A
6/25/2019	CADHKD	9:30:00 AM	5.917	5.9209			N/A
6/25/2019	CADHKD	11:30:00 AM	5.9226	5.9265			N/A
6/25/2019	CADHKD	1:30:00 PM	5.922	5.9259			N/A
6/25/2019	CADHKD	3:30:00 PM	5.9274	5.9304			N/A
6/25/2019	CADHUF	9:30:00 AM	215.21	215.38			N/A
6/25/2019	CADHUF	11:30:00 AM	215.95	216.09			N/A
6/25/2019	CADHUF	1:30:00 PM	215.97	216.14			N/A
6/25/2019	CADHUF	3:30:00 PM	216.04	216.09			N/A
6/25/2019	CADJPY	9:30:00 AM	81.08	81.139			N/A
6/25/2019	CADJPY	11:30:00 AM	81.215	81.273			N/A
6/25/2019	CADJPY	1:30:00 PM	81.163	81.237			N/A
6/25/2019	CADJPY	3:30:00 PM	81.286	81.349			N/A
6/25/2019	CADJPY.fx	9:30:00 AM	81.114	81.103			N/A
6/25/2019	CADJPY.fx	11:30:00 AM	81.248	81.238			N/A
6/25/2019	CADJPY.fx	1:30:00 PM	81.196	81.202			N/A
6/25/2019	CADJPY.fx	3:30:00 PM	81.319	81.315			N/A
6/25/2019	CADMXN	9:30:00 AM	14.536	14.5487			N/A
6/25/2019	CADMXN	11:30:00 AM	14.5944	14.6066			N/A
6/25/2019	CADMXN	1:30:00 PM	14.583	14.5942			N/A
6/25/2019	CADMXN	3:30:00 PM	14.5951	14.6034			N/A
6/25/2019	CADNOK	9:30:00 AM	6.4374	6.4415			N/A
6/25/2019	CADNOK	11:30:00 AM	6.4521	6.4562			N/A
6/25/2019	CADNOK	1:30:00 PM	6.4546	6.459			N/A
6/25/2019	CADNOK	3:30:00 PM	6.4559	6.4578			N/A
6/25/2019	CADPLN	9:30:00 AM	2.8284	2.8295			N/A
6/25/2019	CADPLN	11:30:00 AM	2.8362	2.8381			N/A
6/25/2019	CADPLN	1:30:00 PM	2.8341	2.836			N/A
6/25/2019	CADPLN	3:30:00 PM	2.8359	2.8378			N/A

6/25/2019	CADSEK	9:30:00 AM	7.0371	7.0403			N/A
6/25/2019	CADSEK	11:30:00 AM	7.0291	7.0311			N/A
6/25/2019	CADSEK	1:30:00 PM	7.0189	7.0222			N/A
6/25/2019	CADSEK	3:30:00 PM	7.0189	7.0218			N/A
6/25/2019	CADSGD	9:30:00 AM	1.0258	1.0261			N/A
6/25/2019	CADSGD	11:30:00 AM	1.0262	1.0266			N/A
6/25/2019	CADSGD	1:30:00 PM	1.0265	1.0268			N/A
6/25/2019	CADSGD	3:30:00 PM	1.0269	1.0272			N/A
6/25/2019	CADZAR	9:30:00 AM	10.8778	10.8932			N/A
6/25/2019	CADZAR	11:30:00 AM	10.8414	10.8524			N/A
6/25/2019	CADZAR	1:30:00 PM	10.8438	10.8602			N/A
6/25/2019	CADZAR	3:30:00 PM	10.8484	10.861			N/A
6/25/2019	CHFCZK	9:30:00 AM	23.069	23.082			N/A
6/25/2019	CHFCZK	11:30:00 AM	22.994	23.005			N/A
6/25/2019	CHFCZK	1:30:00 PM	22.978	22.993			N/A
6/25/2019	CHFCZK	3:30:00 PM	22.989	23.006			N/A
6/25/2019	CHFDKK	9:30:00 AM	6.74	6.742			N/A
6/25/2019	CHFDKK	11:30:00 AM	6.722	6.724			N/A
6/25/2019	CHFDKK	1:30:00 PM	6.717	6.72			N/A
6/25/2019	CHFDKK	3:30:00 PM	6.722	6.724			N/A
6/25/2019	CHFDKK.fx	9:30:00 AM	6.738	6.7437			N/A
6/25/2019	CHFDKK.fx	11:30:00 AM	6.7206	6.725			N/A
6/25/2019	CHFDKK.fx	1:30:00 PM	6.7159	6.7216			N/A
6/25/2019	CHFDKK.fx	3:30:00 PM	6.7203	6.7267			N/A
6/25/2019	CHFHKD	9:30:00 AM	8.0332	8.036			N/A
6/25/2019	CHFHKD	11:30:00 AM	8.0026	8.0053			N/A
6/25/2019	CHFHKD	1:30:00 PM	7.9954	7.9992			N/A
6/25/2019	CHFHKD	3:30:00 PM	8.0074	8.0113			N/A
6/25/2019	CHFHUF	9:30:00 AM	292.09	292.46			N/A
6/25/2019	CHFHUF	11:30:00 AM	291.69	291.99			N/A
6/25/2019	CHFHUF	1:30:00 PM	291.49	291.86			N/A
6/25/2019	CHFHUF	3:30:00 PM	291.75	292.02			N/A
6/25/2019	CHFJPY	9:30:00 AM	110.076	110.139			N/A
6/25/2019	CHFJPY	11:30:00 AM	109.743	109.777			N/A

6/25/2019	CHFJPY	1:30:00 PM	109.579	109.648			N/A
6/25/2019	CHFJPY	3:30:00 PM	109.807	109.869			N/A
6/25/2019	CHFJPY.fx	9:30:00 AM	110.109	110.105			N/A
6/25/2019	CHFJPY.fx	11:30:00 AM	109.775	109.744			N/A
6/25/2019	CHFJPY.fx	1:30:00 PM	109.612	109.614			N/A
6/25/2019	CHFJPY.fx	3:30:00 PM	109.84	109.835			N/A
6/25/2019	CHFMXN	9:30:00 AM	19.7335	19.7495			N/A
6/25/2019	CHFMXN	11:30:00 AM	19.7195	19.7334			N/A
6/25/2019	CHFMXN	1:30:00 PM	19.6869	19.7033			N/A
6/25/2019	CHFMXN	3:30:00 PM	19.7162	19.7279			N/A
6/25/2019	CHFNOK	9:30:00 AM	8.7399	8.7465			N/A
6/25/2019	CHFNOK	11:30:00 AM	8.7167	8.7223			N/A
6/25/2019	CHFNOK	1:30:00 PM	8.7142	8.7214			N/A
6/25/2019	CHFNOK	3:30:00 PM	8.7215	8.729			N/A
6/25/2019	CHFNOK.fx	9:30:00 AM	8.74332	8.74308			N/A
6/25/2019	CHFNOK.fx	11:30:00 AM	8.72013	8.7189			N/A
6/25/2019	CHFNOK.fx	1:30:00 PM	8.71773	8.71792			N/A
6/25/2019	CHFNOK.fx	3:30:00 PM	8.72507	8.72541			N/A
6/25/2019	CHFPLN	9:30:00 AM	3.8401	3.8416			N/A
6/25/2019	CHFPLN	11:30:00 AM	3.8318	3.8341			N/A
6/25/2019	CHFPLN	1:30:00 PM	3.8259	3.8287			N/A
6/25/2019	CHFPLN	3:30:00 PM	3.8311	3.8343			N/A
6/25/2019	CHFPLN.fx	9:30:00 AM	3.83768	3.84393			N/A
6/25/2019	CHFPLN.fx	11:30:00 AM	3.82944	3.83635			N/A
6/25/2019	CHFPLN.fx	1:30:00 PM	3.82346	3.83115			N/A
6/25/2019	CHFPLN.fx	3:30:00 PM	3.82868	3.83663			N/A
6/25/2019	CHFSEK	9:30:00 AM	9.5529	9.5576			N/A
6/25/2019	CHFSEK	11:30:00 AM	9.4967	9.4978			N/A
6/25/2019	CHFSEK	1:30:00 PM	9.4757	9.4795			N/A
6/25/2019	CHFSEK	3:30:00 PM	9.481	9.4859			N/A
6/25/2019	CHFSGD	9:30:00 AM	1.3932	1.3936			N/A
6/25/2019	CHFSGD	11:30:00 AM	1.3872	1.3874			N/A
6/25/2019	CHFSGD	1:30:00 PM	1.3865	1.3864			N/A
6/25/2019	CHFSGD	3:30:00 PM	1.3882	1.3886			N/A

6/25/2019	CHFSGD.fx	9:30:00 AM	1.39343	1.39344			N/A
6/25/2019	CHFSGD.fx	11:30:00 AM	1.38737	1.38718			N/A
6/25/2019	CHFSGD.fx	1:30:00 PM	1.38666	1.38677			N/A
6/25/2019	CHFSGD.fx	3:30:00 PM	1.38833	1.38845			N/A
6/25/2019	CHFZAR	9:30:00 AM	14.7714	14.7831			N/A
6/25/2019	CHFZAR	11:30:00 AM	14.6541	14.6556			N/A
6/25/2019	CHFZAR	1:30:00 PM	14.6435	14.6572			N/A
6/25/2019	CHFZAR	3:30:00 PM	14.6582	14.6697			N/A
6/25/2019	CZKJPY	9:30:00 AM	4.771	4.774			N/A
6/25/2019	CZKJPY	11:30:00 AM					N/A
6/25/2019	CZKJPY	1:30:00 PM					N/A
6/25/2019	CZKJPY	3:30:00 PM	4.776	4.78			N/A
6/25/2019	DAX30.i	9:30:00 AM	12211.45	12208.95			N/A
6/25/2019	DAX30.i	11:30:00 AM	12264.2	12260.45			N/A
6/25/2019	DAX30.i	1:30:00 PM	12258.95	12258.2			N/A
6/25/2019	DAX30.i	3:30:00 PM	12255.2	12254.7			N/A
6/25/2019	DJ30.i	9:30:00 AM					N/A
6/25/2019	DJ30.i	11:30:00 AM					N/A
6/25/2019	DJ30.i	1:30:00 PM					N/A
6/25/2019	DJ30.i	3:30:00 PM					N/A
6/25/2019	DKKJPY	9:30:00 AM	16.33	16.35			N/A
6/25/2019	DKKJPY	11:30:00 AM					N/A
6/25/2019	DKKJPY	1:30:00 PM	16.32	16.33			N/A
6/25/2019	DKKJPY	3:30:00 PM					N/A
6/25/2019	EURAUD	9:30:00 AM	1.6375	1.63792		100	N/A
6/25/2019	EURAUD	11:30:00 AM	1.63371	1.6341			N/A
6/25/2019	EURAUD	1:30:00 PM	1.6326	1.63301			N/A
6/25/2019	EURAUD	3:30:00 PM	1.63325	1.63351			N/A
6/25/2019	EURAUD.fx	9:30:00 AM	1.63771	1.63769			N/A
6/25/2019	EURAUD.fx	11:30:00 AM	1.63391	1.63389			N/A
6/25/2019	EURAUD.fx	1:30:00 PM	1.63281	1.63278			N/A
6/25/2019	EURAUD.fx	3:30:00 PM	1.63345	1.6333			N/A
6/25/2019	EURCAD	9:30:00 AM	1.50313	1.504			N/A
6/25/2019	EURCAD	11:30:00 AM	1.49982	1.50063			N/A

6/25/2019	EURCAD	1:30:00 PM	1.4995	1.5003			N/A
6/25/2019	EURCAD	3:30:00 PM	1.49942	1.50019			N/A
6/25/2019	EURCAD.fx	9:30:00 AM	1.50354	1.50359			N/A
6/25/2019	EURCAD.fx	11:30:00 AM	1.50024	1.50021			N/A
6/25/2019	EURCAD.fx	1:30:00 PM	1.49991	1.49989			N/A
6/25/2019	EURCAD.fx	3:30:00 PM	1.49983	1.49977			N/A
6/25/2019	EURCHF	9:30:00 AM	1.10763	1.10765			N/A
6/25/2019	EURCHF	11:30:00 AM	1.11062	1.11043			N/A
6/25/2019	EURCHF	1:30:00 PM	1.11106	1.11108			N/A
6/25/2019	EURCHF	3:30:00 PM	1.11028	1.11043			N/A
6/25/2019	EURCHF.fx	9:30:00 AM	1.10768	1.1076			N/A
6/25/2019	EURCHF.fx	11:30:00 AM	1.11067	1.11037			N/A
6/25/2019	EURCHF.fx	1:30:00 PM	1.11113	1.11102			N/A
6/25/2019	EURCHF.fx	3:30:00 PM	1.11033	1.11037			N/A
6/25/2019	EURCZK	9:30:00 AM	25.536	25.574			N/A
6/25/2019	EURCZK	11:30:00 AM	25.519	25.557			N/A
6/25/2019	EURCZK	1:30:00 PM	25.516	25.555			N/A
6/25/2019	EURCZK	3:30:00 PM	25.511	25.55			N/A
6/25/2019	EURDKK	9:30:00 AM					N/A
6/25/2019	EURDKK	11:30:00 AM					N/A
6/25/2019	EURDKK	1:30:00 PM	7.4634	7.4645			N/A
6/25/2019	EURDKK	3:30:00 PM	7.463	7.4643			N/A
6/25/2019	EURGBP	9:30:00 AM	0.89385	0.89385			N/A
6/25/2019	EURGBP	11:30:00 AM	0.89219	0.89219			N/A
6/25/2019	EURGBP	1:30:00 PM	0.89245	0.89253			N/A
6/25/2019	EURGBP	3:30:00 PM	0.89436	0.89442			N/A
6/25/2019	EURGBP.fx	9:30:00 AM	0.89388	0.89379			N/A
6/25/2019	EURGBP.fx	11:30:00 AM	0.89222	0.89214			N/A
6/25/2019	EURGBP.fx	1:30:00 PM	0.89248	0.89249			N/A
6/25/2019	EURGBP.fx	3:30:00 PM	0.89439	0.89437			N/A
6/25/2019	EURHKD	9:30:00 AM	8.8975	8.9027			N/A
6/25/2019	EURHKD	11:30:00 AM	8.8866	8.8908			N/A
6/25/2019	EURHKD	1:30:00 PM	8.8838	8.8885			N/A
6/25/2019	EURHKD	3:30:00 PM	8.8914	8.8969			N/A

6/25/2019	EURHKD.fx	9:30:00 AM	8.90023	8.89997			N/A
6/25/2019	EURHKD.fx	11:30:00 AM	8.88937	8.88798			N/A
6/25/2019	EURHKD.fx	1:30:00 PM	8.88663	8.8857			N/A
6/25/2019	EURHKD.fx	3:30:00 PM	8.89424	8.89409			N/A
6/25/2019	EURHUF	9:30:00 AM	323.51	324.12			N/A
6/25/2019	EURHUF	11:30:00 AM	323.85	324.43			N/A
6/25/2019	EURHUF	1:30:00 PM	323.81	324.5			N/A
6/25/2019	EURHUF	3:30:00 PM	323.91	324.33			N/A
6/25/2019	EURHUF.fx	9:30:00 AM	323.761	323.988			N/A
6/25/2019	EURHUF.fx	11:30:00 AM	324.119	324.278			N/A
6/25/2019	EURHUF.fx	1:30:00 PM	324.111	324.252			N/A
6/25/2019	EURHUF.fx	3:30:00 PM	324.16	324.378			N/A
6/25/2019	EURJPY	9:30:00 AM	121.959	121.948			N/A
6/25/2019	EURJPY	11:30:00 AM	121.887	121.88			N/A
6/25/2019	EURJPY	1:30:00 PM	121.791	121.792			N/A
6/25/2019	EURJPY	3:30:00 PM	121.957	121.957			N/A
6/25/2019	EURJPY.fx	9:30:00 AM	121.962	121.944			N/A
6/25/2019	EURJPY.fx	11:30:00 AM	121.889	121.876			N/A
6/25/2019	EURJPY.fx	1:30:00 PM	121.794	121.788			N/A
6/25/2019	EURJPY.fx	3:30:00 PM	121.96	121.953			N/A
6/25/2019	EURMXN	9:30:00 AM	21.8599	21.8793			N/A
6/25/2019	EURMXN	11:30:00 AM	21.8997	21.9173			N/A
6/25/2019	EURMXN	1:30:00 PM	21.8767	21.8924			N/A
6/25/2019	EURMXN	3:30:00 PM	21.8925	21.9094			N/A
6/25/2019	EURMXN.fx	9:30:00 AM	21.8682	21.8712			N/A
6/25/2019	EURMXN.fx	11:30:00 AM	21.9077	21.909			N/A
6/25/2019	EURMXN.fx	1:30:00 PM	21.8847	21.884			N/A
6/25/2019	EURMXN.fx	3:30:00 PM	21.9018	21.9002			N/A
6/25/2019	EURNOK	9:30:00 AM	9.6783	9.69			N/A
6/25/2019	EURNOK	11:30:00 AM	9.6782	9.689			N/A
6/25/2019	EURNOK	1:30:00 PM	9.6813	9.6917			N/A
6/25/2019	EURNOK	3:30:00 PM	9.6819	9.6937			N/A
6/25/2019	EURNOK.fx	9:30:00 AM	9.68369	9.68458			N/A
6/25/2019	EURNOK.fx	11:30:00 AM	9.68355	9.68363			N/A

6/25/2019	EURNOK.fx	1:30:00 PM	9.68684	9.6862			N/A
6/25/2019	EURNOK.fx	3:30:00 PM	9.68749	9.68821			N/A
6/25/2019	EURNZD	9:30:00 AM	1.71637	1.71717			N/A
6/25/2019	EURNZD	11:30:00 AM	1.71213	1.71292			N/A
6/25/2019	EURNZD	1:30:00 PM	1.71238	1.71327			N/A
6/25/2019	EURNZD	3:30:00 PM	1.71294	1.71353			N/A
6/25/2019	EURNZD.fx	9:30:00 AM	1.71679	1.71674			N/A
6/25/2019	EURNZD.fx	11:30:00 AM	1.71255	1.71247			N/A
6/25/2019	EURNZD.fx	1:30:00 PM	1.7128	1.71284			N/A
6/25/2019	EURNZD.fx	3:30:00 PM	1.71336	1.71309			N/A
6/25/2019	EURPLN	9:30:00 AM	4.2533	4.255			N/A
6/25/2019	EURPLN	11:30:00 AM	4.2549	4.2581			N/A
6/25/2019	EURPLN	1:30:00 PM	4.2509	4.2542			N/A
6/25/2019	EURPLN	3:30:00 PM	4.2539	4.2571			N/A
6/25/2019	EURPLN.fx	9:30:00 AM	4.25237	4.25572			N/A
6/25/2019	EURPLN.fx	11:30:00 AM	4.25437	4.25869			N/A
6/25/2019	EURPLN.fx	1:30:00 PM	4.25037	4.25467			N/A
6/25/2019	EURPLN.fx	3:30:00 PM	4.25327	4.25774			N/A
6/25/2019	EURRUB	9:30:00 AM					N/A
6/25/2019	EURRUB	11:30:00 AM	70.847	71.281			N/A
6/25/2019	EURRUB	1:30:00 PM	71.01	71.45			N/A
6/25/2019	EURRUB	3:30:00 PM	71.109	71.543			N/A
6/25/2019	EURSEK	9:30:00 AM	10.5836	10.587			N/A
6/25/2019	EURSEK	11:30:00 AM	10.5476	10.5493			N/A
6/25/2019	EURSEK	1:30:00 PM	10.5292	10.5336			N/A
6/25/2019	EURSEK	3:30:00 PM	10.5291	10.5335			N/A
6/25/2019	EURSEK.fx	9:30:00 AM	10.58508	10.58552			N/A
6/25/2019	EURSEK.fx	11:30:00 AM	10.5492	10.54774			N/A
6/25/2019	EURSEK.fx	1:30:00 PM	10.53112	10.53177			N/A
6/25/2019	EURSEK.fx	3:30:00 PM	10.53071	10.53181			N/A
6/25/2019	EURSGD	9:30:00 AM	1.543	1.5434			N/A
6/25/2019	EURSGD	11:30:00 AM	1.5403	1.541			N/A
6/25/2019	EURSGD	1:30:00 PM	1.5404	1.5412			N/A
6/25/2019	EURSGD	3:30:00 PM	1.5411	1.542			N/A

6/25/2019	EURSGD.fx	9:30:00 AM	1.54338	1.54342			N/A
6/25/2019	EURSGD.fx	11:30:00 AM	1.54062	1.54062			N/A
6/25/2019	EURSGD.fx	1:30:00 PM	1.54079	1.54079			N/A
6/25/2019	EURSGD.fx	3:30:00 PM	1.54153	1.54159			N/A
6/25/2019	EURUSD	9:30:00 AM	1.13994	1.14006			N/A
6/25/2019	EURUSD	11:30:00 AM	1.1385	1.13852			N/A
6/25/2019	EURUSD	1:30:00 PM	1.13824	1.13827			N/A
6/25/2019	EURUSD	3:30:00 PM	1.13894	1.13906			N/A
6/25/2019	EURUSD.fx	9:30:00 AM	1.14014	1.14015			N/A
6/25/2019	EURUSD.fx	11:30:00 AM	1.13871	1.13861			N/A
6/25/2019	EURUSD.fx	1:30:00 PM	1.13844	1.13836			N/A
6/25/2019	EURUSD.fx	3:30:00 PM	1.13914	1.13915			N/A
6/25/2019	EURZAR	9:30:00 AM	16.3637	16.3793			N/A
6/25/2019	EURZAR	11:30:00 AM	16.2733	16.2815			N/A
6/25/2019	EURZAR	1:30:00 PM	16.2702	16.2891			N/A
6/25/2019	EURZAR	3:30:00 PM	16.2788	16.2993			N/A
6/25/2019	EURZAR.fx	9:30:00 AM	16.36297	16.38019			N/A
6/25/2019	EURZAR.fx	11:30:00 AM	16.27312	16.28206			N/A
6/25/2019	EURZAR.fx	1:30:00 PM	16.26975	16.28989			N/A
6/25/2019	EURZAR.fx	3:30:00 PM	16.27797	16.30017			N/A
6/25/2019	GBPAUD	9:30:00 AM	1.8325	1.83323			N/A
6/25/2019	GBPAUD	11:30:00 AM	1.83169	1.83237			N/A
6/25/2019	GBPAUD	1:30:00 PM	1.82981	1.83048			N/A
6/25/2019	GBPAUD	3:30:00 PM	1.82666	1.82722			N/A
6/25/2019	GBPAUD.fx	9:30:00 AM	1.83289	1.83284			N/A
6/25/2019	GBPAUD.fx	11:30:00 AM	1.8321	1.83198			N/A
6/25/2019	GBPAUD.fx	1:30:00 PM	1.83022	1.83006			N/A
6/25/2019	GBPAUD.fx	3:30:00 PM	1.82709	1.82681			N/A
6/25/2019	GBPCAD	9:30:00 AM	1.68181	1.68246			N/A
6/25/2019	GBPCAD	11:30:00 AM	1.68112	1.68189			N/A
6/25/2019	GBPCAD	1:30:00 PM	1.68022	1.68091			N/A
6/25/2019	GBPCAD	3:30:00 PM	1.67652	1.67724			N/A
6/25/2019	GBPCAD.fx	9:30:00 AM	1.68219	1.68207			N/A
6/25/2019	GBPCAD.fx	11:30:00 AM	1.68149	1.6815			N/A

6/25/2019	GBPCAD.fx	1:30:00 PM	1.68059	1.68052			N/A
6/25/2019	GBPCAD.fx	3:30:00 PM	1.67692	1.67684			N/A
6/25/2019	GBPCHF	9:30:00 AM	1.23897	1.23934			N/A
6/25/2019	GBPCHF	11:30:00 AM	1.24459	1.24486			N/A
6/25/2019	GBPCHF	1:30:00 PM	1.24477	1.24508			N/A
6/25/2019	GBPCHF	3:30:00 PM	1.24123	1.24168			N/A
6/25/2019	GBPCHF.fx	9:30:00 AM	1.23917	1.23915			N/A
6/25/2019	GBPCHF.fx	11:30:00 AM	1.24479	1.24465			N/A
6/25/2019	GBPCHF.fx	1:30:00 PM	1.24496	1.24487			N/A
6/25/2019	GBPCHF.fx	3:30:00 PM	1.24143	1.24148			N/A
6/25/2019	GBPCZK	9:30:00 AM	28.581	28.598			N/A
6/25/2019	GBPCZK	11:30:00 AM	28.613	28.633			N/A
6/25/2019	GBPCZK	1:30:00 PM	28.6	28.621			N/A
6/25/2019	GBPCZK	3:30:00 PM	28.534	28.554			N/A
6/25/2019	GBPDKK	9:30:00 AM	8.349	8.359			N/A
6/25/2019	GBPDKK	11:30:00 AM	8.363	8.374			N/A
6/25/2019	GBPDKK	1:30:00 PM	8.36	8.371			N/A
6/25/2019	GBPDKK	3:30:00 PM	8.341	8.353			N/A
6/25/2019	GBPDKK.fx	9:30:00 AM	8.347	8.3591			N/A
6/25/2019	GBPDKK.fx	11:30:00 AM	8.3619	8.3742			N/A
6/25/2019	GBPDKK.fx	1:30:00 PM	8.3581	8.3709			N/A
6/25/2019	GBPDKK.fx	3:30:00 PM	8.3404	8.3532			N/A
6/25/2019	GBPHKD	9:30:00 AM	9.9526	9.9569			N/A
6/25/2019	GBPHKD	11:30:00 AM	9.9578	9.9636			N/A
6/25/2019	GBPHKD	1:30:00 PM	9.9515	9.9561			N/A
6/25/2019	GBPHKD	3:30:00 PM	9.939	9.9436			N/A
6/25/2019	GBPHUF	9:30:00 AM	361.9	362.34			N/A
6/25/2019	GBPHUF	11:30:00 AM	362.98	363.41			N/A
6/25/2019	GBPHUF	1:30:00 PM	362.8	363.26			N/A
6/25/2019	GBPHUF	3:30:00 PM	362.14	362.43			N/A
6/25/2019	GBPJPY	9:30:00 AM	136.415	136.457			N/A
6/25/2019	GBPJPY	11:30:00 AM	136.611	136.619			N/A
6/25/2019	GBPJPY	1:30:00 PM	136.445	136.476			N/A
6/25/2019	GBPJPY	3:30:00 PM	136.334	136.382			N/A

6/25/2019	GBPJPY.fx	9:30:00 AM	136.434	136.437			N/A
6/25/2019	GBPJPY.fx	11:30:00 AM	136.63	136.599		1000	N/A
6/25/2019	GBPJPY.fx	1:30:00 PM	136.464	136.457			N/A
6/25/2019	GBPJPY.fx	3:30:00 PM	136.354	136.362			N/A
6/25/2019	GBPMXN	9:30:00 AM	24.4519	24.465			N/A
6/25/2019	GBPMXN	11:30:00 AM	24.5409	24.5539			N/A
6/25/2019	GBPMXN	1:30:00 PM	24.5077	24.5189			N/A
6/25/2019	GBPMXN	3:30:00 PM	24.4743	24.4835			N/A
6/25/2019	GBPNOK	9:30:00 AM	10.8295	10.8393			N/A
6/25/2019	GBPNOK	11:30:00 AM	10.8482	10.8581			N/A
6/25/2019	GBPNOK	1:30:00 PM	10.8488	10.8579			N/A
6/25/2019	GBPNOK	3:30:00 PM	10.8267	10.837			N/A
6/25/2019	GBPNOK.fx	9:30:00 AM	10.83442	10.83439			N/A
6/25/2019	GBPNOK.fx	11:30:00 AM	10.85293	10.85314			N/A
6/25/2019	GBPNOK.fx	1:30:00 PM	10.85355	10.85292			N/A
6/25/2019	GBPNOK.fx	3:30:00 PM	10.83179	10.83205			N/A
6/25/2019	GBPNZD	9:30:00 AM	1.92026	1.92095			N/A
6/25/2019	GBPNZD	11:30:00 AM	1.91918	1.91978			N/A
6/25/2019	GBPNZD	1:30:00 PM	1.91883	1.9195			N/A
6/25/2019	GBPNZD	3:30:00 PM	1.91534	1.91577			N/A
6/25/2019	GBPNZD.fx	9:30:00 AM	1.92063	1.92058			N/A
6/25/2019	GBPNZD.fx	11:30:00 AM	1.91953	1.91942			N/A
6/25/2019	GBPNZD.fx	1:30:00 PM	1.91917	1.91913			N/A
6/25/2019	GBPNZD.fx	3:30:00 PM	1.91571	1.91537			N/A
6/25/2019	GBPPLN	9:30:00 AM	4.7594	4.7593			N/A
6/25/2019	GBPPLN	11:30:00 AM	4.7702	4.7716			N/A
6/25/2019	GBPPLN	1:30:00 PM	4.7639	4.7657			N/A
6/25/2019	GBPPLN	3:30:00 PM	4.7572	4.759			N/A
6/25/2019	GBPPLN.fx	9:30:00 AM	4.75708	4.76165			N/A
6/25/2019	GBPPLN.fx	11:30:00 AM	4.76793	4.77384			N/A
6/25/2019	GBPPLN.fx	1:30:00 PM	4.76196	4.76791			N/A
6/25/2019	GBPPLN.fx	3:30:00 PM	4.75496	4.76104			N/A
6/25/2019	GBPSEK	9:30:00 AM	11.8377	11.8468			N/A
6/25/2019	GBPSEK	11:30:00 AM	11.8191	11.8261			N/A

6/25/2019	GBPSEK	1:30:00 PM	11.796	11.8044			N/A
6/25/2019	GBPSEK	3:30:00 PM	11.7703	11.7789			N/A
6/25/2019	GBPSEK.fx	9:30:00 AM	11.83337	11.85086			N/A
6/25/2019	GBPSEK.fx	11:30:00 AM	11.81522	11.82977			N/A
6/25/2019	GBPSEK.fx	1:30:00 PM	11.79244	11.80808			N/A
6/25/2019	GBPSEK.fx	3:30:00 PM	11.76652	11.78255			N/A
6/25/2019	GBPSGD	9:30:00 AM	1.7264	1.727			N/A
6/25/2019	GBPSGD	11:30:00 AM	1.7264	1.7272			N/A
6/25/2019	GBPSGD	1:30:00 PM	1.7261	1.7267			N/A
6/25/2019	GBPSGD	3:30:00 PM	1.7232	1.724			N/A
6/25/2019	GBPSGD.fx	9:30:00 AM	1.72453	1.72885			N/A
6/25/2019	GBPSGD.fx	11:30:00 AM	1.72454	1.72896			N/A
6/25/2019	GBPSGD.fx	1:30:00 PM	1.72423	1.72856			N/A
6/25/2019	GBPSGD.fx	3:30:00 PM	1.72134	1.72578			N/A
6/25/2019	GBPUSD	9:30:00 AM	1.27555	1.27551			N/A
6/25/2019	GBPUSD	11:30:00 AM	1.27623	1.27624			N/A
6/25/2019	GBPUSD	1:30:00 PM	1.27554	1.27548			N/A
6/25/2019	GBPUSD	3:30:00 PM	1.27363	1.2737			N/A
6/25/2019	GBPUSD.fx	9:30:00 AM	1.27561	1.27546			N/A
6/25/2019	GBPUSD.fx	11:30:00 AM	1.2763	1.27619			N/A
6/25/2019	GBPUSD.fx	1:30:00 PM	1.27559	1.27542			N/A
6/25/2019	GBPUSD.fx	3:30:00 PM	1.27368	1.27363			N/A
6/25/2019	GBPZAR	9:30:00 AM	18.3027	18.33			N/A
6/25/2019	GBPZAR	11:30:00 AM	18.2355	18.2507			N/A
6/25/2019	GBPZAR	1:30:00 PM	18.2262	18.2549			N/A
6/25/2019	GBPZAR	3:30:00 PM	18.1989	18.2275			N/A
6/25/2019	GBPZAR.fx	9:30:00 AM	18.3092	18.322			N/A
6/25/2019	GBPZAR.fx	11:30:00 AM	18.2421	18.2426			N/A
6/25/2019	GBPZAR.fx	1:30:00 PM	18.2336	18.2472			N/A
6/25/2019	GBPZAR.fx	3:30:00 PM	18.2062	18.2203			N/A
6/25/2019	GOLD	9:30:00 AM	1428.77	1427.1			N/A
6/25/2019	GOLD	11:30:00 AM	1432.15	1430.92			N/A
6/25/2019	GOLD	1:30:00 PM	1430.35	1430.37			N/A
6/25/2019	GOLD	3:30:00 PM	1425.14	1425.21			N/A

6/25/2019	HKDJPY	9:30:00 AM	13.7	13.71			N/A
6/25/2019	HKDJPY	11:30:00 AM	13.71	13.72			N/A
6/25/2019	HKDJPY	1:30:00 PM	13.71	13.72			N/A
6/25/2019	HKDJPY	3:30:00 PM	13.71	13.72			N/A
6/25/2019	HKDJPY.fx	9:30:00 AM	13.7	13.704			N/A
6/25/2019	HKDJPY.fx	11:30:00 AM	13.709	13.713			N/A
6/25/2019	HKDJPY.fx	1:30:00 PM	13.701	13.709			N/A
6/25/2019	HKDJPY.fx	3:30:00 PM	13.708	13.714			N/A
6/25/2019	HUFJPY	9:30:00 AM	0.3768	0.3772			N/A
6/25/2019	HUFJPY	11:30:00 AM	0.3763	0.3766			N/A
6/25/2019	HUFJPY	1:30:00 PM	0.376	0.3763			N/A
6/25/2019	HUFJPY	3:30:00 PM	0.3764	0.3767			N/A
6/25/2019	JP225.i	9:30:00 AM	21127.39	21139.89			N/A
6/25/2019	JP225.i	11:30:00 AM	21159.89	21174.89			N/A
6/25/2019	JP225.i	1:30:00 PM	21149.89	21164.89			N/A
6/25/2019	JP225.i	3:30:00 PM	21149.89	21164.89			N/A
6/25/2019	MXNJPY	9:30:00 AM	5.58	5.59			N/A
6/25/2019	MXNJPY	11:30:00 AM					N/A
6/25/2019	MXNJPY	1:30:00 PM	5.57	5.57			N/A
6/25/2019	MXNJPY	3:30:00 PM	5.57	5.58			N/A
6/25/2019	NASDAQ.i	9:30:00 AM					N/A
6/25/2019	NASDAQ.i	11:30:00 AM					N/A
6/25/2019	NASDAQ.i	1:30:00 PM					N/A
6/25/2019	NASDAQ.i	3:30:00 PM					N/A
6/25/2019	NOKJPY	9:30:00 AM	12.58	12.61			N/A
6/25/2019	NOKJPY	11:30:00 AM	12.57	12.6			N/A
6/25/2019	NOKJPY	1:30:00 PM	12.56	12.59			N/A
6/25/2019	NOKJPY	3:30:00 PM	12.58	12.61			N/A
6/25/2019	NOKJPY.fx	9:30:00 AM	12.591	12.595			N/A
6/25/2019	NOKJPY.fx	11:30:00 AM	12.584	12.589			N/A
6/25/2019	NOKJPY.fx	1:30:00 PM	12.57	12.577			N/A
6/25/2019	NOKJPY.fx	3:30:00 PM	12.585	12.591			N/A
6/25/2019	NZDCAD	9:30:00 AM	0.87547	0.87614			N/A
6/25/2019	NZDCAD	11:30:00 AM	0.87572	0.87639			N/A

6/25/2019	NZDCAD	1:30:00 PM	0.87531	0.87602			N/A
6/25/2019	NZDCAD	3:30:00 PM	0.87516	0.8757			N/A
6/25/2019	NZDCAD.fx	9:30:00 AM	0.8758	0.87581			N/A
6/25/2019	NZDCAD.fx	11:30:00 AM	0.87605	0.87605			N/A
6/25/2019	NZDCAD.fx	1:30:00 PM	0.87565	0.87568			N/A
6/25/2019	NZDCAD.fx	3:30:00 PM	0.8755	0.87536			N/A
6/25/2019	NZDCHF	9:30:00 AM	0.64481	0.64555			N/A
6/25/2019	NZDCHF	11:30:00 AM	0.64821	0.64878			N/A
6/25/2019	NZDCHF	1:30:00 PM	0.64833	0.64904			N/A
6/25/2019	NZDCHF	3:30:00 PM	0.64776	0.64842			N/A
6/25/2019	NZDCHF.fx	9:30:00 AM	0.64515	0.6452			N/A
6/25/2019	NZDCHF.fx	11:30:00 AM	0.64855	0.64843			N/A
6/25/2019	NZDCHF.fx	1:30:00 PM	0.64868	0.64868			N/A
6/25/2019	NZDCHF.fx	3:30:00 PM	0.6481	0.64806			N/A
6/25/2019	NZDCZK	9:30:00 AM	14.879	14.891			N/A
6/25/2019	NZDCZK	11:30:00 AM	14.905	14.917			N/A
6/25/2019	NZDCZK	1:30:00 PM	14.901	14.913			N/A
6/25/2019	NZDCZK	3:30:00 PM	14.895	14.905			N/A
6/25/2019	NZDDKK	9:30:00 AM					N/A
6/25/2019	NZDDKK	11:30:00 AM					N/A
6/25/2019	NZDDKK	1:30:00 PM					N/A
6/25/2019	NZDDKK	3:30:00 PM	4.354	4.357			N/A
6/25/2019	NZDHKD	9:30:00 AM	5.1811	5.184			N/A
6/25/2019	NZDHKD	11:30:00 AM	5.1867	5.1894			N/A
6/25/2019	NZDHKD	1:30:00 PM	5.1845	5.1873			N/A
6/25/2019	NZDHKD	3:30:00 PM	5.1891	5.1907			N/A
6/25/2019	NZDHUF	9:30:00 AM	188.38	188.67			N/A
6/25/2019	NZDHUF	11:30:00 AM	189.07	189.34			N/A
6/25/2019	NZDHUF	1:30:00 PM	189.01	189.3			N/A
6/25/2019	NZDHUF	3:30:00 PM	189	189.21			N/A
6/25/2019	NZDJPY	9:30:00 AM	71.006	71.072			N/A
6/25/2019	NZDJPY	11:30:00 AM	71.144	71.203			N/A
6/25/2019	NZDJPY	1:30:00 PM	71.069	71.141			N/A
6/25/2019	NZDJPY	3:30:00 PM	71.156	71.216			N/A

6/25/2019	NZDJPY.fx	9:30:00 AM	71.037	71.038			N/A
6/25/2019	NZDJPY.fx	11:30:00 AM	71.175	71.169			N/A
6/25/2019	NZDJPY.fx	1:30:00 PM	71.1	71.108			N/A
6/25/2019	NZDJPY.fx	3:30:00 PM	71.187	71.182			N/A
6/25/2019	NZDMXN	9:30:00 AM	12.7306	12.7368			N/A
6/25/2019	NZDMXN	11:30:00 AM	12.7853	12.7904			N/A
6/25/2019	NZDMXN	1:30:00 PM	12.7687	12.7736			N/A
6/25/2019	NZDMXN	3:30:00 PM	12.7758	12.779			N/A
6/25/2019	NZDNOK	9:30:00 AM	5.6363	5.64			N/A
6/25/2019	NZDNOK	11:30:00 AM	5.6503	5.6541			N/A
6/25/2019	NZDNOK	1:30:00 PM	5.6507	5.6542			N/A
6/25/2019	NZDNOK	3:30:00 PM	5.65	5.652			N/A
6/25/2019	NZDPLN	9:30:00 AM	2.476	2.4774			N/A
6/25/2019	NZDPLN	11:30:00 AM	2.4837	2.4851			N/A
6/25/2019	NZDPLN	1:30:00 PM	2.4812	2.4825			N/A
6/25/2019	NZDPLN	3:30:00 PM	2.4827	2.4838			N/A
6/25/2019	NZDSEK	9:30:00 AM	6.1594	6.1663			N/A
6/25/2019	NZDSEK	11:30:00 AM	6.1543	6.1596			N/A
6/25/2019	NZDSEK	1:30:00 PM	6.1427	6.1493			N/A
6/25/2019	NZDSEK	3:30:00 PM	6.1417	6.1471			N/A
6/25/2019	NZDSGD	9:30:00 AM	0.8987	0.8994			N/A
6/25/2019	NZDSGD	11:30:00 AM	0.8993	0.9			N/A
6/25/2019	NZDSGD	1:30:00 PM	0.8992	0.8995			N/A
6/25/2019	NZDSGD	3:30:00 PM	0.8995	0.9001			N/A
6/25/2019	NZDSGD.fx	9:30:00 AM	0.8987	0.89931			N/A
6/25/2019	NZDSGD.fx	11:30:00 AM	0.89933	0.89991			N/A
6/25/2019	NZDSGD.fx	1:30:00 PM	0.89925	0.89983			N/A
6/25/2019	NZDSGD.fx	3:30:00 PM	0.8995	0.90001			N/A
6/25/2019	NZDUSD	9:30:00 AM	0.66401	0.66414			N/A
6/25/2019	NZDUSD	11:30:00 AM	0.66483	0.66492			N/A
6/25/2019	NZDUSD	1:30:00 PM	0.66452	0.66464			N/A
6/25/2019	NZDUSD	3:30:00 PM	0.66483	0.66488			N/A
6/25/2019	NZDUSD.fx	9:30:00 AM	0.66408	0.66415			N/A
6/25/2019	NZDUSD.fx	11:30:00 AM	0.6649	0.66493			N/A

6/25/2019	NZDUSD.fx	1:30:00 PM	0.66459	0.66466			N/A
6/25/2019	NZDUSD.fx	3:30:00 PM	0.66491	0.6649			N/A
6/25/2019	NZDZAR	9:30:00 AM	9.5231	9.539			N/A
6/25/2019	NZDZAR	11:30:00 AM	9.4936	9.5056			N/A
6/25/2019	NZDZAR	1:30:00 PM	9.4919	9.5083			N/A
6/25/2019	NZDZAR	3:30:00 PM	9.4931	9.508			N/A
6/25/2019	SEKJPY	9:30:00 AM					N/A
6/25/2019	SEKJPY	11:30:00 AM	11.56	11.56			N/A
6/25/2019	SEKJPY	1:30:00 PM	11.56	11.57			N/A
6/25/2019	SEKJPY	3:30:00 PM					N/A
6/25/2019	SEKJPY.fx	9:30:00 AM	11.511	11.531			N/A
6/25/2019	SEKJPY.fx	11:30:00 AM	11.548	11.562			N/A
6/25/2019	SEKJPY.fx	1:30:00 PM	11.555	11.573			N/A
6/25/2019	SEKJPY.fx	3:30:00 PM	11.571	11.589			N/A
6/25/2019	SGDJPY	9:30:00 AM	78.99	79.01			N/A
6/25/2019	SGDJPY	11:30:00 AM	79.09	79.1			N/A
6/25/2019	SGDJPY	1:30:00 PM	79.01	79.04			N/A
6/25/2019	SGDJPY	3:30:00 PM	79.08	79.11			N/A
6/25/2019	SILVER	9:30:00 AM	15.21	15.57			N/A
6/25/2019	SILVER	11:30:00 AM	15.25	15.62			N/A
6/25/2019	SILVER	1:30:00 PM	15.23	15.61			N/A
6/25/2019	SILVER	3:30:00 PM	15.17	15.54			N/A
6/25/2019	SPX500.i	9:30:00 AM	2941.96	2942.51			N/A
6/25/2019	SPX500.i	11:30:00 AM	2944.71	2944.76			N/A
6/25/2019	SPX500.i	1:30:00 PM	2944.46	2945.51			N/A
6/25/2019	SPX500.i	3:30:00 PM	2945.78	2946.14			N/A
6/25/2019	UK100.i	9:30:00 AM	7399.3	7399.55			N/A
6/25/2019	UK100.i	11:30:00 AM	7403.8	7403.55			N/A
6/25/2019	UK100.i	1:30:00 PM	7408.8	7409.88			N/A
6/25/2019	UK100.i	3:30:00 PM	7423.8	7424.55			N/A
6/25/2019	USDCAD	9:30:00 AM	1.31874	1.31885			N/A
6/25/2019	USDCAD	11:30:00 AM	1.31749	1.31764			N/A
6/25/2019	USDCAD	1:30:00 PM	1.3175	1.31763			N/A
6/25/2019	USDCAD	3:30:00 PM	1.31663	1.31663			N/A

6/25/2019	USDCAD.fx	9:30:00 AM	1.31877	1.31882			N/A
6/25/2019	USDCAD.fx	11:30:00 AM	1.31752	1.31761			N/A
6/25/2019	USDCAD.fx	1:30:00 PM	1.31753	1.3176			N/A
6/25/2019	USDCAD.fx	3:30:00 PM	1.31665	1.3166			N/A
6/25/2019	USDCHF	9:30:00 AM	0.97148	0.97152			N/A
6/25/2019	USDCHF	11:30:00 AM	0.97532	0.97523			N/A
6/25/2019	USDCHF	1:30:00 PM	0.97596	0.97609			N/A
6/25/2019	USDCHF	3:30:00 PM	0.97463	0.97479	100		N/A
6/25/2019	USDCHF.fx	9:30:00 AM	0.97154	0.97146			N/A
6/25/2019	USDCHF.fx	11:30:00 AM	0.97537	0.97517			N/A
6/25/2019	USDCHF.fx	1:30:00 PM	0.976	0.97602			N/A
6/25/2019	USDCHF.fx	3:30:00 PM	0.97468	0.97473			N/A
6/25/2019	USDCZK	9:30:00 AM	22.424	22.447			N/A
6/25/2019	USDCZK	11:30:00 AM	22.436	22.458			N/A
6/25/2019	USDCZK	1:30:00 PM	22.44	22.462			N/A
6/25/2019	USDCZK	3:30:00 PM	22.421	22.444			N/A
6/25/2019	USDCZK.fx	9:30:00 AM	22.4319	22.4392			N/A
6/25/2019	USDCZK.fx	11:30:00 AM	22.4454	22.449			N/A
6/25/2019	USDCZK.fx	1:30:00 PM	22.449	22.4528			N/A
6/25/2019	USDCZK.fx	3:30:00 PM	22.4299	22.4342			N/A
6/25/2019	USDDKK	9:30:00 AM	6.5473	6.5515			N/A
6/25/2019	USDDKK	11:30:00 AM	6.5554	6.5592			N/A
6/25/2019	USDDKK	1:30:00 PM	6.5566	6.5602			N/A
6/25/2019	USDDKK	3:30:00 PM	6.5522	6.5563			N/A
6/25/2019	USDDKK.fx	9:30:00 AM	6.5478	6.54949			N/A
6/25/2019	USDDKK.fx	11:30:00 AM	6.55618	6.55715			N/A
6/25/2019	USDDKK.fx	1:30:00 PM	6.55708	6.55812			N/A
6/25/2019	USDDKK.fx	3:30:00 PM	6.55266	6.55424			N/A
6/25/2019	USDHKD	9:30:00 AM	7.8063	7.8062			N/A
6/25/2019	USDHKD	11:30:00 AM	7.8063	7.8063			N/A
6/25/2019	USDHKD	1:30:00 PM	7.8053	7.8058			N/A
6/25/2019	USDHKD	3:30:00 PM	7.8075	7.8075			N/A
6/25/2019	USDHKD.fx	9:30:00 AM	7.80622	7.80621			N/A
6/25/2019	USDHKD.fx	11:30:00 AM	7.80622	7.80627			N/A

6/25/2019	USDHKD.fx	1:30:00 PM	7.80552	7.80613			N/A
6/25/2019	USDHKD.fx	3:30:00 PM	7.80742	7.80807			N/A
6/25/2019	USDHUF	9:30:00 AM	283.81	284.28			N/A
6/25/2019	USDHUF	11:30:00 AM	284.51	284.93			N/A
6/25/2019	USDHUF	1:30:00 PM	284.54	284.99			N/A
6/25/2019	USDHUF	3:30:00 PM	284.42	284.9			N/A
6/25/2019	USDHUF.fx	9:30:00 AM	284.005	284.091			N/A
6/25/2019	USDHUF.fx	11:30:00 AM	284.708	284.736			N/A
6/25/2019	USDHUF.fx	1:30:00 PM	284.755	284.784			N/A
6/25/2019	USDHUF.fx	3:30:00 PM	284.61	284.706			N/A
6/25/2019	USDINR	9:30:00 AM	64.36	74.35			N/A
6/25/2019	USDINR	11:30:00 AM	64.35	74.34			N/A
6/25/2019	USDINR	1:30:00 PM					N/A
6/25/2019	USDINR	3:30:00 PM					N/A
6/25/2019	USDJPY	9:30:00 AM	106.969	106.961			N/A
6/25/2019	USDJPY	11:30:00 AM	107.048	107.037			N/A
6/25/2019	USDJPY	1:30:00 PM	106.977	106.992			N/A
6/25/2019	USDJPY	3:30:00 PM	107.058	107.061		100	N/A
6/25/2019	USDJPY.fx	9:30:00 AM	106.975	106.954			N/A
6/25/2019	USDJPY.fx	11:30:00 AM	107.054	107.03			N/A
6/25/2019	USDJPY.fx	1:30:00 PM	106.983	106.986			N/A
6/25/2019	USDJPY.fx	3:30:00 PM	107.063	107.054			N/A
6/25/2019	USDMXN	9:30:00 AM	19.177	19.186			N/A
6/25/2019	USDMXN	11:30:00 AM	19.237	19.245			N/A
6/25/2019	USDMXN	1:30:00 PM	19.221	19.229			N/A
6/25/2019	USDMXN	3:30:00 PM	19.224	19.228			N/A
6/25/2019	USDMXN.f	9:30:00 AM					N/A
6/25/2019	USDMXN.f	11:30:00 AM					N/A
6/25/2019	USDMXN.f	1:30:00 PM					N/A
6/25/2019	USDMXN.f	3:30:00 PM					N/A
6/25/2019	USDNOK	9:30:00 AM	8.49	8.4985			N/A
6/25/2019	USDNOK	11:30:00 AM	8.5003	8.5082			N/A
6/25/2019	USDNOK	1:30:00 PM	8.5049	8.5127			N/A
6/25/2019	USDNOK	3:30:00 PM	8.5008	8.5088			N/A

6/25/2019	USDNOK.fx	9:30:00 AM	8.49396	8.49404			N/A
6/25/2019	USDNOK.fx	11:30:00 AM	8.50438	8.50366			N/A
6/25/2019	USDNOK.fx	1:30:00 PM	8.50878	8.50844			N/A
6/25/2019	USDNOK.fx	3:30:00 PM	8.50475	8.50426			N/A
6/25/2019	USDPLN	9:30:00 AM	3.731	3.7315			N/A
6/25/2019	USDPLN	11:30:00 AM	3.7374	3.7388			N/A
6/25/2019	USDPLN	1:30:00 PM	3.7348	3.7362			N/A
6/25/2019	USDPLN	3:30:00 PM	3.7349	3.7365			N/A
6/25/2019	USDPLN.fx	9:30:00 AM	3.73016	3.73231			N/A
6/25/2019	USDPLN.fx	11:30:00 AM	3.73656	3.73953			N/A
6/25/2019	USDPLN.fx	1:30:00 PM	3.73408	3.73692			N/A
6/25/2019	USDPLN.fx	3:30:00 PM	3.73416	3.73731			N/A
6/25/2019	USDRUB	9:30:00 AM					N/A
6/25/2019	USDRUB	11:30:00 AM	62.329	62.72			N/A
6/25/2019	USDRUB	1:30:00 PM	62.484	62.883			N/A
6/25/2019	USDRUB	3:30:00 PM	62.539	62.924			N/A
6/25/2019	USDSEK	9:30:00 AM	9.2819	9.2854			N/A
6/25/2019	USDSEK	11:30:00 AM	9.2622	9.2641			N/A
6/25/2019	USDSEK	1:30:00 PM	9.2489	9.2526			N/A
6/25/2019	USDSEK	3:30:00 PM	9.2424	9.2466			N/A
6/25/2019	USDSEK.fx	9:30:00 AM	9.28456	9.28408			N/A
6/25/2019	USDSEK.fx	11:30:00 AM	9.26489	9.26215			N/A
6/25/2019	USDSEK.fx	1:30:00 PM	9.25171	9.25061			N/A
6/25/2019	USDSEK.fx	3:30:00 PM	9.24529	9.24475			N/A
6/25/2019	USDSGD	9:30:00 AM	1.3536	1.3538			N/A
6/25/2019	USDSGD	11:30:00 AM	1.3529	1.3532			N/A
6/25/2019	USDSGD	1:30:00 PM	1.3533	1.3533			N/A
6/25/2019	USDSGD	3:30:00 PM	1.3531	1.3535			N/A
6/25/2019	USDSGD.fx	9:30:00 AM	1.35347	1.35396			N/A
6/25/2019	USDSGD.fx	11:30:00 AM	1.35276	1.35321			N/A
6/25/2019	USDSGD.fx	1:30:00 PM	1.35323	1.35374			N/A
6/25/2019	USDSGD.fx	3:30:00 PM	1.35299	1.35351			N/A
6/25/2019	USDZAR	9:30:00 AM	14.3526	14.3675			N/A
6/25/2019	USDZAR	11:30:00 AM	14.2911	14.2977			N/A

6/25/2019	USDZAR	1:30:00 PM	14.2923	14.3097			N/A
6/25/2019	USDZAR	3:30:00 PM	14.2902	14.309			N/A
6/25/2019	USDZAR.fx	9:30:00 AM	14.35797	14.36202			N/A
6/25/2019	USDZAR.fx	11:30:00 AM	14.29703	14.29097			N/A
6/25/2019	USDZAR.fx	1:30:00 PM	14.29836	14.30312			N/A
6/25/2019	USDZAR.fx	3:30:00 PM	14.29635	14.30302			N/A
6/25/2019	XAUUSD	9:30:00 AM	1428.77	1427.09			N/A
6/25/2019	XAUUSD	11:30:00 AM	1432.18	1430.94			N/A
6/25/2019	XAUUSD	1:30:00 PM	1430.35	1430.37			N/A
6/25/2019	XAUUSD	3:30:00 PM	1425.14	1425.22			N/A
6/25/2019	ZARJPY	9:30:00 AM	7.43	7.45			N/A
6/25/2019	ZARJPY	11:30:00 AM	7.47	7.49			N/A
6/25/2019	ZARJPY	1:30:00 PM	7.46	7.5			N/A
6/25/2019	ZARJPY	3:30:00 PM	7.46	7.49			N/A
6/25/2019	ZARJPY.fx	9:30:00 AM	7.447	7.451			N/A
6/25/2019	ZARJPY.fx	11:30:00 AM	7.488	7.487			N/A
6/25/2019	ZARJPY.fx	1:30:00 PM	7.478	7.483			N/A
6/25/2019	ZARJPY.fx	3:30:00 PM	7.484	7.489			N/A
6/26/2019	#AA	9:30:00 AM					N/A
6/26/2019	#AA	11:30:00 AM					N/A
6/26/2019	#AA	1:30:00 PM					N/A
6/26/2019	#AA	3:30:00 PM					N/A
6/26/2019	#AABA	9:30:00 AM					N/A
6/26/2019	#AABA	11:30:00 AM					N/A
6/26/2019	#AABA	1:30:00 PM					N/A
6/26/2019	#AABA	3:30:00 PM					N/A
6/26/2019	#AAL	9:30:00 AM					N/A
6/26/2019	#AAL	11:30:00 AM	32.51	31.27			N/A
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6/26/2019	#AAL	3:30:00 PM					N/A
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6/26/2019	#AAPL	11:30:00 AM					N/A
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6/26/2019	#AAPL	3:30:00 PM					N/A

6/26/2019	#ADBE	9:30:00 AM					N/A
6/26/2019	#ADBE	11:30:00 AM					N/A
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6/26/2019	#AIG	3:30:00 PM					N/A
6/26/2019	#AMD	9:30:00 AM					N/A
6/26/2019	#AMD	11:30:00 AM					N/A
6/26/2019	#AMD	1:30:00 PM					N/A
6/26/2019	#AMD	3:30:00 PM					N/A
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6/26/2019	#AMZN	11:30:00 AM					N/A
6/26/2019	#AMZN	1:30:00 PM					N/A
6/26/2019	#AMZN	3:30:00 PM					N/A
6/26/2019	#AXP	9:30:00 AM					N/A
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6/26/2019	#AXP	1:30:00 PM					N/A
6/26/2019	#AXP	3:30:00 PM					N/A
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6/26/2019	#BA	11:30:00 AM					N/A
6/26/2019	#BA	1:30:00 PM					N/A
6/26/2019	#BA	3:30:00 PM					N/A
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6/26/2019	#BABA	11:30:00 AM					N/A
6/26/2019	#BABA	1:30:00 PM					N/A
6/26/2019	#BABA	3:30:00 PM					N/A
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6/26/2019	#BAC	3:30:00 PM					N/A
6/26/2019	#BARC	9:30:00 AM					N/A
6/26/2019	#BARC	11:30:00 AM					N/A

6/26/2019	#BARC	1:30:00 PM					N/A
6/26/2019	#BARC	3:30:00 PM					N/A
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6/26/2019	#BHP	11:30:00 AM					N/A
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6/26/2019	#BHP	3:30:00 PM					N/A
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6/26/2019	#BIDU	11:30:00 AM					N/A
6/26/2019	#BIDU	1:30:00 PM					N/A
6/26/2019	#BIDU	3:30:00 PM					N/A
6/26/2019	#Bitcoin	9:30:00 AM	12597.15	12599.66			N/A
6/26/2019	#Bitcoin	11:30:00 AM	12547.15	12545.16			N/A
6/26/2019	#Bitcoin	1:30:00 PM	12578.26	12604.91			N/A
6/26/2019	#Bitcoin	3:30:00 PM	12658.03	12673.41			N/A
6/26/2019	#BK	9:30:00 AM					N/A
6/26/2019	#BK	11:30:00 AM					N/A
6/26/2019	#BK	1:30:00 PM					N/A
6/26/2019	#BK	3:30:00 PM					N/A
6/26/2019	#BLT	9:30:00 AM					N/A
6/26/2019	#BLT	11:30:00 AM					N/A
6/26/2019	#BLT	1:30:00 PM					N/A
6/26/2019	#BLT	3:30:00 PM					N/A
6/26/2019	#BP	9:30:00 AM					N/A
6/26/2019	#BP	11:30:00 AM					N/A
6/26/2019	#BP	1:30:00 PM					N/A
6/26/2019	#BP	3:30:00 PM					N/A
6/26/2019	#BTA	9:30:00 AM					N/A
6/26/2019	#BTA	11:30:00 AM					N/A
6/26/2019	#BTA	1:30:00 PM					N/A
6/26/2019	#BTA	3:30:00 PM					N/A
6/26/2019	#C	9:30:00 AM					N/A
6/26/2019	#C	11:30:00 AM					N/A
6/26/2019	#C	1:30:00 PM					N/A
6/26/2019	#C	3:30:00 PM					N/A

6/26/2019	#CAT	9:30:00 AM					N/A
6/26/2019	#CAT	11:30:00 AM					N/A
6/26/2019	#CAT	1:30:00 PM					N/A
6/26/2019	#CAT	3:30:00 PM					N/A
6/26/2019	#CHL	9:30:00 AM					N/A
6/26/2019	#CHL	11:30:00 AM					N/A
6/26/2019	#CHL	1:30:00 PM					N/A
6/26/2019	#CHL	3:30:00 PM					N/A
6/26/2019	#CL.f	9:30:00 AM	59.064	59.095		10	N/A
6/26/2019	#CL.f	11:30:00 AM	58.81	58.795			N/A
6/26/2019	#CL.f	1:30:00 PM	58.816	58.849			N/A
6/26/2019	#CL.f	3:30:00 PM	58.986	58.982			N/A
6/26/2019	#CMCSA	9:30:00 AM					N/A
6/26/2019	#CMCSA	11:30:00 AM					N/A
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6/26/2019	AUDCAD	1:30:00 PM	0.91861	0.91927			N/A
6/26/2019	AUDCAD	3:30:00 PM	0.91808	0.91865			N/A
6/26/2019	AUDCAD.fx	9:30:00 AM	0.91866	0.9187			N/A
6/26/2019	AUDCAD.fx	11:30:00 AM	0.91882	0.91882			N/A
6/26/2019	AUDCAD.fx	1:30:00 PM	0.91894	0.91892			N/A
6/26/2019	AUDCAD.fx	3:30:00 PM	0.91829	0.91833			N/A
6/26/2019	AUDCHF	9:30:00 AM	0.68081	0.68147			N/A
6/26/2019	AUDCHF	11:30:00 AM	0.68072	0.68131			N/A
6/26/2019	AUDCHF	1:30:00 PM	0.68292	0.68334			N/A
6/26/2019	AUDCHF	3:30:00 PM	0.68279	0.68312			N/A
6/26/2019	AUDCHF.fx	9:30:00 AM	0.68115	0.68112			N/A
6/26/2019	AUDCHF.fx	11:30:00 AM	0.68106	0.68096			N/A

6/26/2019	AUDCHF.fx	1:30:00 PM	0.68326	0.68299			N/A
6/26/2019	AUDCHF.fx	3:30:00 PM	0.68312	0.68281			N/A
6/26/2019	AUDCZK	9:30:00 AM	15.607	15.624			N/A
6/26/2019	AUDCZK	11:30:00 AM	15.645	15.66			N/A
6/26/2019	AUDCZK	1:30:00 PM	15.661	15.671			N/A
6/26/2019	AUDCZK	3:30:00 PM	15.635	15.646			N/A
6/26/2019	AUDDKK	9:30:00 AM	4.5813	4.5862			N/A
6/26/2019	AUDDKK	11:30:00 AM	4.5861	4.59			N/A
6/26/2019	AUDDKK	1:30:00 PM	4.5878	4.5908			N/A
6/26/2019	AUDDKK	3:30:00 PM	4.5862	4.5894			N/A
6/26/2019	AUDHKD	9:30:00 AM	5.4429	5.4466			N/A
6/26/2019	AUDHKD	11:30:00 AM	5.448	5.4519			N/A
6/26/2019	AUDHKD	1:30:00 PM	5.4496	5.453			N/A
6/26/2019	AUDHKD	3:30:00 PM	5.4496	5.4535			N/A
6/26/2019	AUDHUF	9:30:00 AM					N/A
6/26/2019	AUDHUF	11:30:00 AM	198.7	198.76			N/A
6/26/2019	AUDHUF	1:30:00 PM	198.65	198.82			N/A
6/26/2019	AUDHUF	3:30:00 PM	198.49	198.67			N/A
6/26/2019	AUDJPY	9:30:00 AM	74.861	74.923			N/A
6/26/2019	AUDJPY	11:30:00 AM	74.973	75.029			N/A
6/26/2019	AUDJPY	1:30:00 PM	75.18	75.231			N/A
6/26/2019	AUDJPY	3:30:00 PM	75.187	75.244			N/A
6/26/2019	AUDJPY.fx	9:30:00 AM	74.894	74.888			N/A
6/26/2019	AUDJPY.fx	11:30:00 AM	75.006	74.994			N/A
6/26/2019	AUDJPY.fx	1:30:00 PM	75.214	75.195			N/A
6/26/2019	AUDJPY.fx	3:30:00 PM	75.213	75.211			N/A
6/26/2019	AUDMXN	9:30:00 AM	13.3965	13.4062			N/A
6/26/2019	AUDMXN	11:30:00 AM	13.3924	13.398			N/A
6/26/2019	AUDMXN	1:30:00 PM	13.3872	13.3945			N/A
6/26/2019	AUDMXN	3:30:00 PM	13.3856	13.3933			N/A
6/26/2019	AUDNOK	9:30:00 AM	5.9459	5.9507			N/A
6/26/2019	AUDNOK	11:30:00 AM	5.9421	5.9455			N/A
6/26/2019	AUDNOK	1:30:00 PM	5.9395	5.9415			N/A
6/26/2019	AUDNOK	3:30:00 PM	5.9445	5.9479			N/A

6/26/2019	AUDNOK.fx	9:30:00 AM	5.9472	5.9496			N/A
6/26/2019	AUDNOK.fx	11:30:00 AM	5.9435	5.944			N/A
6/26/2019	AUDNOK.fx	1:30:00 PM	5.9407	5.9399			N/A
6/26/2019	AUDNOK.fx	3:30:00 PM	5.9457	5.9471			N/A
6/26/2019	AUDNZD	9:30:00 AM	1.04678	1.04768			N/A
6/26/2019	AUDNZD	11:30:00 AM	1.04607	1.04701			N/A
6/26/2019	AUDNZD	1:30:00 PM	1.04587	1.04658			N/A
6/26/2019	AUDNZD	3:30:00 PM	1.04481	1.04542			N/A
6/26/2019	AUDNZD.fx	9:30:00 AM	1.04723	1.04722			N/A
6/26/2019	AUDNZD.fx	11:30:00 AM	1.04654	1.04656			N/A
6/26/2019	AUDNZD.fx	1:30:00 PM	1.0463	1.04613			N/A
6/26/2019	AUDNZD.fx	3:30:00 PM	1.0452	1.04496		2000	N/A
6/26/2019	AUDPLN	9:30:00 AM	2.6118	2.615			N/A
6/26/2019	AUDPLN	11:30:00 AM	2.6193	2.6214			N/A
6/26/2019	AUDPLN	1:30:00 PM	2.6196	2.6216			N/A
6/26/2019	AUDPLN	3:30:00 PM	2.6184	2.6205			N/A
6/26/2019	AUDSEK	9:30:00 AM	6.4787	6.4804			N/A
6/26/2019	AUDSEK	11:30:00 AM	6.4709	6.4722			N/A
6/26/2019	AUDSEK	1:30:00 PM	6.4727	6.4721			N/A
6/26/2019	AUDSEK	3:30:00 PM	6.4809	6.4819			N/A
6/26/2019	AUDSEK.fx	9:30:00 AM	6.4738	6.4851			N/A
6/26/2019	AUDSEK.fx	11:30:00 AM	6.466	6.4768			N/A
6/26/2019	AUDSEK.fx	1:30:00 PM	6.4678	6.4764			N/A
6/26/2019	AUDSEK.fx	3:30:00 PM	6.4758	6.4877			N/A
6/26/2019	AUDSGD	9:30:00 AM	0.9448	0.9451			N/A
6/26/2019	AUDSGD	11:30:00 AM	0.9455	0.9458			N/A
6/26/2019	AUDSGD	1:30:00 PM	0.9457	0.9459			N/A
6/26/2019	AUDSGD	3:30:00 PM	0.9456	0.9457			N/A
6/26/2019	AUDSGD.fx	9:30:00 AM	0.94491	0.94503			N/A
6/26/2019	AUDSGD.fx	11:30:00 AM	0.94561	0.94568			N/A
6/26/2019	AUDSGD.fx	1:30:00 PM	0.94581	0.94584			N/A
6/26/2019	AUDSGD.fx	3:30:00 PM	0.9456	0.94566			N/A
6/26/2019	AUDUSD	9:30:00 AM	0.69739	0.6975			N/A
6/26/2019	AUDUSD	11:30:00 AM	0.69807	0.69814			N/A

6/26/2019	AUDUSD	1:30:00 PM	0.69831	0.69844			N/A
6/26/2019	AUDUSD	3:30:00 PM	0.69834	0.69844			N/A
6/26/2019	AUDUSD.fx	9:30:00 AM	0.69744	0.69744			N/A
6/26/2019	AUDUSD.fx	11:30:00 AM	0.69812	0.69808			N/A
6/26/2019	AUDUSD.fx	1:30:00 PM	0.69837	0.69838			N/A
6/26/2019	AUDUSD.fx	3:30:00 PM	0.69838	0.69837			N/A
6/26/2019	AUDZAR	9:30:00 AM	9.9914	10.0051			N/A
6/26/2019	AUDZAR	11:30:00 AM	9.9942	9.9968			N/A
6/26/2019	AUDZAR	1:30:00 PM	10.0108	10.0227			N/A
6/26/2019	AUDZAR	3:30:00 PM	9.9857	9.9991			N/A
6/26/2019	AUS200.i	9:30:00 AM	6641.8	6645.3			N/A
6/26/2019	AUS200.i	11:30:00 AM	6648.39	6651.79			N/A
6/26/2019	AUS200.i	1:30:00 PM	6668.19	6671.09			N/A
6/26/2019	AUS200.i	3:30:00 PM	6660.29	6662.79			N/A
6/26/2019	BCHUSD	9:30:00 AM	493.86	493.95			N/A
6/26/2019	BCHUSD	11:30:00 AM	490.61	491.76			N/A
6/26/2019	BCHUSD	1:30:00 PM	499.71	500.57			N/A
6/26/2019	BCHUSD	3:30:00 PM	510.8	511.4			N/A
6/26/2019	CADCHF	9:30:00 AM	0.7411	0.74178			N/A
6/26/2019	CADCHF	11:30:00 AM	0.74086	0.74147			N/A
6/26/2019	CADCHF	1:30:00 PM	0.74321	0.7436			N/A
6/26/2019	CADCHF	3:30:00 PM	0.74355	0.74377			N/A
6/26/2019	CADCHF.fx	9:30:00 AM	0.74143	0.74143			N/A
6/26/2019	CADCHF.fx	11:30:00 AM	0.7412	0.74111			N/A
6/26/2019	CADCHF.fx	1:30:00 PM	0.74353	0.74325			N/A
6/26/2019	CADCHF.fx	3:30:00 PM	0.74387	0.74345			N/A
6/26/2019	CADCZK	9:30:00 AM	16.992	17.01			N/A
6/26/2019	CADCZK	11:30:00 AM	17.03	17.045			N/A
6/26/2019	CADCZK	1:30:00 PM	17.045	17.056			N/A
6/26/2019	CADCZK	3:30:00 PM	17.03	17.041			N/A
6/26/2019	CADDDKK	9:30:00 AM					N/A
6/26/2019	CADDDKK	11:30:00 AM	4.992	4.994			N/A
6/26/2019	CADDDKK	1:30:00 PM	4.993	4.996			N/A
6/26/2019	CADDDKK	3:30:00 PM	4.993	4.997			N/A

6/26/2019	CADHKD	9:30:00 AM	5.9258	5.9297			N/A
6/26/2019	CADHKD	11:30:00 AM	5.931	5.9349			N/A
6/26/2019	CADHKD	1:30:00 PM	5.9315	5.9351			N/A
6/26/2019	CADHKD	3:30:00 PM	5.9355	5.9394			N/A
6/26/2019	CADHUF	9:30:00 AM	215.95	216.12			N/A
6/26/2019	CADHUF	11:30:00 AM	216.33	216.32			N/A
6/26/2019	CADHUF	1:30:00 PM	216.24	216.35			N/A
6/26/2019	CADHUF	3:30:00 PM	216.24	216.33			N/A
6/26/2019	CADJPY	9:30:00 AM	81.491	81.55			N/A
6/26/2019	CADJPY	11:30:00 AM	81.599	81.653			N/A
6/26/2019	CADJPY	1:30:00 PM	81.814	81.864			N/A
6/26/2019	CADJPY	3:30:00 PM	81.875	81.933			N/A
6/26/2019	CADJPY.fx	9:30:00 AM	81.523	81.516			N/A
6/26/2019	CADJPY.fx	11:30:00 AM	81.633	81.619			N/A
6/26/2019	CADJPY.fx	1:30:00 PM	81.851	81.829			N/A
6/26/2019	CADJPY.fx	3:30:00 PM	81.906	81.898			N/A
6/26/2019	CADMXN	9:30:00 AM	14.5841	14.5956			N/A
6/26/2019	CADMXN	11:30:00 AM	14.5774	14.5859			N/A
6/26/2019	CADMXN	1:30:00 PM	14.5693	14.5803			N/A
6/26/2019	CADMXN	3:30:00 PM	14.5785	14.5881			N/A
6/26/2019	CADNOK	9:30:00 AM	6.4709	6.4752			N/A
6/26/2019	CADNOK	11:30:00 AM	6.4661	6.4672			N/A
6/26/2019	CADNOK	1:30:00 PM	6.4627	6.4653			N/A
6/26/2019	CADNOK	3:30:00 PM	6.4701	6.4722			N/A
6/26/2019	CADPLN	9:30:00 AM	2.8433	2.8451			N/A
6/26/2019	CADPLN	11:30:00 AM	2.8507	2.8515			N/A
6/26/2019	CADPLN	1:30:00 PM	2.8511	2.8524			N/A
6/26/2019	CADPLN	3:30:00 PM	2.8509	2.8512			N/A
6/26/2019	CADSEK	9:30:00 AM	7.0506	7.0536			N/A
6/26/2019	CADSEK	11:30:00 AM	7.041	7.0429			N/A
6/26/2019	CADSEK	1:30:00 PM	7.0423	7.0424			N/A
6/26/2019	CADSEK	3:30:00 PM	7.0559	7.0544			N/A
6/26/2019	CADSGD	9:30:00 AM	1.0279	1.0282			N/A
6/26/2019	CADSGD	11:30:00 AM	1.0287	1.029			N/A

6/26/2019	CADSGD	1:30:00 PM	1.0286	1.0288			N/A
6/26/2019	CADSGD	3:30:00 PM	1.0289	1.0292			N/A
6/26/2019	CADZAR	9:30:00 AM	10.8777	10.8928			N/A
6/26/2019	CADZAR	11:30:00 AM	10.8783	10.8852			N/A
6/26/2019	CADZAR	1:30:00 PM	10.896	10.9088			N/A
6/26/2019	CADZAR	3:30:00 PM	10.8756	10.8905			N/A
6/26/2019	CHFCZK	9:30:00 AM	22.924	22.938			N/A
6/26/2019	CHFCZK	11:30:00 AM	22.981	22.995			N/A
6/26/2019	CHFCZK	1:30:00 PM	22.931	22.942			N/A
6/26/2019	CHFCZK	3:30:00 PM	22.905	22.915			N/A
6/26/2019	CHFDKK	9:30:00 AM	6.728	6.731			N/A
6/26/2019	CHFDKK	11:30:00 AM	6.736	6.739			N/A
6/26/2019	CHFDKK	1:30:00 PM	6.717	6.719			N/A
6/26/2019	CHFDKK	3:30:00 PM	6.718	6.719			N/A
6/26/2019	CHFDKK.fx	9:30:00 AM	6.7265	6.7324			N/A
6/26/2019	CHFDKK.fx	11:30:00 AM	6.7347	6.7401			N/A
6/26/2019	CHFDKK.fx	1:30:00 PM	6.7155	6.7208			N/A
6/26/2019	CHFDKK.fx	3:30:00 PM	6.7151	6.72			N/A
6/26/2019	CHFHKD	9:30:00 AM	7.9938	7.9977			N/A
6/26/2019	CHFHKD	11:30:00 AM	8.0033	8.0063			N/A
6/26/2019	CHFHKD	1:30:00 PM	7.9815	7.9812			N/A
6/26/2019	CHFHKD	3:30:00 PM	7.9854	7.9843			N/A
6/26/2019	CHFHUF	9:30:00 AM	291.21	291.58			N/A
6/26/2019	CHFHUF	11:30:00 AM	291.8	291.95			N/A
6/26/2019	CHFHUF	1:30:00 PM	290.81	291.14			N/A
6/26/2019	CHFHUF	3:30:00 PM	290.72	291			N/A
6/26/2019	CHFJPY	9:30:00 AM	109.927	109.977			N/A
6/26/2019	CHFJPY	11:30:00 AM	110.112	110.146			N/A
6/26/2019	CHFJPY	1:30:00 PM	110.065	110.107			N/A
6/26/2019	CHFJPY	3:30:00 PM	110.135	110.134			N/A
6/26/2019	CHFJPY.fx	9:30:00 AM	109.96	109.943			N/A
6/26/2019	CHFJPY.fx	11:30:00 AM	110.145	110.113			N/A
6/26/2019	CHFJPY.fx	1:30:00 PM	110.098	110.074			N/A
6/26/2019	CHFJPY.fx	3:30:00 PM	110.163	110.1			N/A

6/26/2019	CHF MXN	9:30:00 AM	19.6709	19.6871			N/A
6/26/2019	CHF MXN	11:30:00 AM	19.669	19.68			N/A
6/26/2019	CHF MXN	1:30:00 PM	19.604	19.6086			N/A
6/26/2019	CHF MXN	3:30:00 PM	19.6112	19.6136			N/A
6/26/2019	CHF NOK	9:30:00 AM	8.7294	8.7367			N/A
6/26/2019	CHF NOK	11:30:00 AM	8.7251	8.7309			N/A
6/26/2019	CHF NOK	1:30:00 PM	8.6937	8.6997			N/A
6/26/2019	CHF NOK	3:30:00 PM	8.7064	8.7081			N/A
6/26/2019	CHF NOK.fx	9:30:00 AM	8.73268	8.73347			N/A
6/26/2019	CHF NOK.fx	11:30:00 AM	8.72864	8.72764			N/A
6/26/2019	CHF NOK.fx	1:30:00 PM	8.69698	8.69638			N/A
6/26/2019	CHF NOK.fx	3:30:00 PM	8.70773	8.70444			N/A
6/26/2019	CHF PLN	9:30:00 AM	3.8352	3.838			N/A
6/26/2019	CHF PLN	11:30:00 AM	3.8471	3.8484			N/A
6/26/2019	CHF PLN	1:30:00 PM	3.835	3.8373			N/A
6/26/2019	CHF PLN	3:30:00 PM	3.8345	3.8366			N/A
6/26/2019	CHF PLN.fx	9:30:00 AM	3.83274	3.84045			N/A
6/26/2019	CHF PLN.fx	11:30:00 AM	3.84458	3.85081			N/A
6/26/2019	CHF PLN.fx	1:30:00 PM	3.83254	3.83967			N/A
6/26/2019	CHF PLN.fx	3:30:00 PM	3.83136	3.83901			N/A
6/26/2019	CHF SEK	9:30:00 AM	9.5105	9.5135			N/A
6/26/2019	CHF SEK	11:30:00 AM	9.5002	9.5023			N/A
6/26/2019	CHF SEK	1:30:00 PM	9.4733	9.4747			N/A
6/26/2019	CHF SEK	3:30:00 PM	9.488	9.4884			N/A
6/26/2019	CHF SGD	9:30:00 AM	1.3872	1.3875			N/A
6/26/2019	CHF SGD	11:30:00 AM	1.3885	1.3887			N/A
6/26/2019	CHF SGD	1:30:00 PM	1.3846	1.3846			N/A
6/26/2019	CHF SGD	3:30:00 PM	1.3848	1.3846			N/A
6/26/2019	CHF SGD.fx	9:30:00 AM	1.38733	1.38729			N/A
6/26/2019	CHF SGD.fx	11:30:00 AM	1.38871	1.38854			N/A
6/26/2019	CHF SGD.fx	1:30:00 PM	1.38474	1.38437			N/A
6/26/2019	CHF SGD.fx	3:30:00 PM	1.3849	1.38438			N/A
6/26/2019	CHF ZAR	9:30:00 AM	14.6774	14.6871			N/A
6/26/2019	CHF ZAR	11:30:00 AM	14.6816	14.6794			N/A

6/26/2019	CHFZAR	1:30:00 PM	14.6603	14.6686			N/A
6/26/2019	CHFZAR	3:30:00 PM	14.6345	14.6405			N/A
6/26/2019	CZKJPY	9:30:00 AM	4.794	4.797			N/A
6/26/2019	CZKJPY	11:30:00 AM	4.79	4.793			N/A
6/26/2019	CZKJPY	1:30:00 PM	4.799	4.802			N/A
6/26/2019	CZKJPY	3:30:00 PM	4.808	4.81			N/A
6/26/2019	DAX30.i	9:30:00 AM	12191.27	12191.27			N/A
6/26/2019	DAX30.i	11:30:00 AM	12208.77	12207.02			N/A
6/26/2019	DAX30.i	1:30:00 PM	12297.92	12294.52			N/A
6/26/2019	DAX30.i	3:30:00 PM	12273.77	12268.52			N/A
6/26/2019	DJ30.i	9:30:00 AM					N/A
6/26/2019	DJ30.i	11:30:00 AM					N/A
6/26/2019	DJ30.i	1:30:00 PM					N/A
6/26/2019	DJ30.i	3:30:00 PM					N/A
6/26/2019	DKKJPY	9:30:00 AM					N/A
6/26/2019	DKKJPY	11:30:00 AM	16.35	16.37			N/A
6/26/2019	DKKJPY	1:30:00 PM	16.39	16.4			N/A
6/26/2019	DKKJPY	3:30:00 PM	16.41	16.42			N/A
6/26/2019	EURAUD	9:30:00 AM	1.6279	1.62835			N/A
6/26/2019	EURAUD	11:30:00 AM	1.62646	1.62671			N/A
6/26/2019	EURAUD	1:30:00 PM	1.62615	1.6259			N/A
6/26/2019	EURAUD	3:30:00 PM	1.62662	1.62642			N/A
6/26/2019	EURAUD.fx	9:30:00 AM	1.6281	1.62813			N/A
6/26/2019	EURAUD.fx	11:30:00 AM	1.62666	1.62649			N/A
6/26/2019	EURAUD.fx	1:30:00 PM	1.62637	1.62569			N/A
6/26/2019	EURAUD.fx	3:30:00 PM	1.62677	1.62622			N/A
6/26/2019	EURCAD	9:30:00 AM	1.49584	1.4967			N/A
6/26/2019	EURCAD	11:30:00 AM	1.49481	1.49542			N/A
6/26/2019	EURCAD	1:30:00 PM	1.4946	1.49492			N/A
6/26/2019	EURCAD	3:30:00 PM	1.49421	1.49438			N/A
6/26/2019	EURCAD.fx	9:30:00 AM	1.49624	1.49629			N/A
6/26/2019	EURCAD.fx	11:30:00 AM	1.49523	1.49501			N/A
6/26/2019	EURCAD.fx	1:30:00 PM	1.49502	1.49451			N/A
6/26/2019	EURCAD.fx	3:30:00 PM	1.49456	1.49396			N/A

6/26/2019	EURCHF	9:30:00 AM	1.1094	1.10942			N/A
6/26/2019	EURCHF	11:30:00 AM	1.10815	1.1081			N/A
6/26/2019	EURCHF	1:30:00 PM	1.11121	1.11113			N/A
6/26/2019	EURCHF	3:30:00 PM	1.1113	1.11121			N/A
6/26/2019	EURCHF.fx	9:30:00 AM	1.10946	1.10937			N/A
6/26/2019	EURCHF.fx	11:30:00 AM	1.10821	1.10804			N/A
6/26/2019	EURCHF.fx	1:30:00 PM	1.11127	1.11106			N/A
6/26/2019	EURCHF.fx	3:30:00 PM	1.11135	1.11119			N/A
6/26/2019	EURCZK	9:30:00 AM	25.416	25.456			N/A
6/26/2019	EURCZK	11:30:00 AM	25.451	25.489			N/A
6/26/2019	EURCZK	1:30:00 PM	25.464	25.502			N/A
6/26/2019	EURCZK	3:30:00 PM	25.435	25.469			N/A
6/26/2019	EURDKK	9:30:00 AM	7.4641	7.4654			N/A
6/26/2019	EURDKK	11:30:00 AM	7.4635	7.4648			N/A
6/26/2019	EURDKK	1:30:00 PM	7.4633	7.4645			N/A
6/26/2019	EURDKK	3:30:00 PM	7.4631	7.4644			N/A
6/26/2019	EURGBP	9:30:00 AM	0.89656	0.89649			N/A
6/26/2019	EURGBP	11:30:00 AM	0.89605	0.89606			N/A
6/26/2019	EURGBP	1:30:00 PM	0.8943	0.89431		10	N/A
6/26/2019	EURGBP	3:30:00 PM	0.89609	0.89591			N/A
6/26/2019	EURGBP.fx	9:30:00 AM	0.89659	0.89644			N/A
6/26/2019	EURGBP.fx	11:30:00 AM	0.89608	0.89601			N/A
6/26/2019	EURGBP.fx	1:30:00 PM	0.89434	0.89426			N/A
6/26/2019	EURGBP.fx	3:30:00 PM	0.89612	0.896			N/A
6/26/2019	EURHKD	9:30:00 AM	8.8683	8.8732			N/A
6/26/2019	EURHKD	11:30:00 AM	8.8696	8.8727			N/A
6/26/2019	EURHKD	1:30:00 PM	8.8693	8.8705			N/A
6/26/2019	EURHKD	3:30:00 PM	8.8724	8.8741			N/A
6/26/2019	EURHKD.fx	9:30:00 AM	8.87096	8.87049			N/A
6/26/2019	EURHKD.fx	11:30:00 AM	8.87228	8.87004			N/A
6/26/2019	EURHKD.fx	1:30:00 PM	8.87183	8.8679			N/A
6/26/2019	EURHKD.fx	3:30:00 PM	8.87496	8.87127			N/A
6/26/2019	EURHUF	9:30:00 AM	323.02	323.73			N/A
6/26/2019	EURHUF	11:30:00 AM	323.31	323.65			N/A

6/26/2019	EURHUF	1:30:00 PM	323.03	323.64			N/A
6/26/2019	EURHUF	3:30:00 PM	323.15	323.52			N/A
6/26/2019	EURHUF.fx	9:30:00 AM	323.281	323.47			N/A
6/26/2019	EURHUF.fx	11:30:00 AM	323.575	323.668			N/A
6/26/2019	EURHUF.fx	1:30:00 PM	323.299	323.48			N/A
6/26/2019	EURHUF.fx	3:30:00 PM	323.38	323.58			N/A
6/26/2019	EURJPY	9:30:00 AM	121.981	121.966			N/A
6/26/2019	EURJPY	11:30:00 AM	122.059	122.025			N/A
6/26/2019	EURJPY	1:30:00 PM	122.337	122.307			N/A
6/26/2019	EURJPY	3:30:00 PM	122.412	122.364			N/A
6/26/2019	EURJPY.fx	9:30:00 AM	121.983	121.963			N/A
6/26/2019	EURJPY.fx	11:30:00 AM	122.061	122.021			N/A
6/26/2019	EURJPY.fx	1:30:00 PM	122.339	122.303			N/A
6/26/2019	EURJPY.fx	3:30:00 PM	122.41	122.361			N/A
6/26/2019	EURMXN	9:30:00 AM	21.8251	21.8441			N/A
6/26/2019	EURMXN	11:30:00 AM	21.7986	21.8152			N/A
6/26/2019	EURMXN	1:30:00 PM	21.7863	21.7958			N/A
6/26/2019	EURMXN	3:30:00 PM	21.7902	21.8019			N/A
6/26/2019	EURMXN.fx	9:30:00 AM	21.8332	21.8358			N/A
6/26/2019	EURMXN.fx	11:30:00 AM	21.8068	21.8067			N/A
6/26/2019	EURMXN.fx	1:30:00 PM	21.7949	21.7874			N/A
6/26/2019	EURMXN.fx	3:30:00 PM	21.7983	21.7924			N/A
6/26/2019	EURNOK	9:30:00 AM	9.6821	9.6942			N/A
6/26/2019	EURNOK	11:30:00 AM	9.6664	9.6769			N/A
6/26/2019	EURNOK	1:30:00 PM	9.6574	9.6684			N/A
6/26/2019	EURNOK	3:30:00 PM	9.6699	9.6798			N/A
6/26/2019	EURNOK.fx	9:30:00 AM	9.68741	9.68884			N/A
6/26/2019	EURNOK.fx	11:30:00 AM	9.67163	9.67152			N/A
6/26/2019	EURNOK.fx	1:30:00 PM	9.6627	9.66303			N/A
6/26/2019	EURNOK.fx	3:30:00 PM	9.6756	9.67409			N/A
6/26/2019	EURNZD	9:30:00 AM	1.70525	1.70601			N/A
6/26/2019	EURNZD	11:30:00 AM	1.70256	1.70322			N/A
6/26/2019	EURNZD	1:30:00 PM	1.70154	1.70191			N/A
6/26/2019	EURNZD	3:30:00 PM	1.70057	1.70042			N/A

6/26/2019	EURNZD.fx	9:30:00 AM	1.70566	1.70559			N/A
6/26/2019	EURNZD.fx	11:30:00 AM	1.70297	1.7028			N/A
6/26/2019	EURNZD.fx	1:30:00 PM	1.70194	1.70147			N/A
6/26/2019	EURNZD.fx	3:30:00 PM	1.70092	1.69997			N/A
6/26/2019	EURPLN	9:30:00 AM	4.2547	4.2579			N/A
6/26/2019	EURPLN	11:30:00 AM	4.2627	4.2647			N/A
6/26/2019	EURPLN	1:30:00 PM	4.261	4.2641			N/A
6/26/2019	EURPLN	3:30:00 PM	4.2605	4.2637			N/A
6/26/2019	EURPLN.fx	9:30:00 AM	4.25397	4.25862			N/A
6/26/2019	EURPLN.fx	11:30:00 AM	4.26227	4.26536			N/A
6/26/2019	EURPLN.fx	1:30:00 PM	4.26041	4.26469			N/A
6/26/2019	EURPLN.fx	3:30:00 PM	4.25986	4.26433			N/A
6/26/2019	EURRUB	9:30:00 AM					N/A
6/26/2019	EURRUB	11:30:00 AM	71.07	71.496			N/A
6/26/2019	EURRUB	1:30:00 PM	71.453	71.86			N/A
6/26/2019	EURRUB	3:30:00 PM	71.28	71.685			N/A
6/26/2019	EURSEK	9:30:00 AM	10.5523	10.5544			N/A
6/26/2019	EURSEK	11:30:00 AM	10.5291	10.5316			N/A
6/26/2019	EURSEK	1:30:00 PM	10.5265	10.5291			N/A
6/26/2019	EURSEK	3:30:00 PM	10.5447	10.5475			N/A
6/26/2019	EURSEK.fx	9:30:00 AM	10.55407	10.55269			N/A
6/26/2019	EURSEK.fx	11:30:00 AM	10.53134	10.53005			N/A
6/26/2019	EURSEK.fx	1:30:00 PM	10.528	10.52735			N/A
6/26/2019	EURSEK.fx	3:30:00 PM	10.54526	10.54603			N/A
6/26/2019	EURSGD	9:30:00 AM	1.5387	1.5396			N/A
6/26/2019	EURSGD	11:30:00 AM	1.5384	1.5391			N/A
6/26/2019	EURSGD	1:30:00 PM	1.5383	1.5387			N/A
6/26/2019	EURSGD	3:30:00 PM	1.5385	1.5389			N/A
6/26/2019	EURSGD.fx	9:30:00 AM	1.53904	1.53915			N/A
6/26/2019	EURSGD.fx	11:30:00 AM	1.53888	1.53867			N/A
6/26/2019	EURSGD.fx	1:30:00 PM	1.53872	1.53826			N/A
6/26/2019	EURSGD.fx	3:30:00 PM	1.53882	1.53848			N/A
6/26/2019	EURUSD	9:30:00 AM	1.13578	1.13583			N/A
6/26/2019	EURUSD	11:30:00 AM	1.13589	1.13573			N/A

6/26/2019	EURUSD	1:30:00 PM	1.13608	1.13565			N/A
6/26/2019	EURUSD	3:30:00 PM	1.13635	1.13597			N/A
6/26/2019	EURUSD.fx	9:30:00 AM	1.13598	1.13592			N/A
6/26/2019	EURUSD.fx	11:30:00 AM	1.1361	1.13582			N/A
6/26/2019	EURUSD.fx	1:30:00 PM	1.13629	1.13574			N/A
6/26/2019	EURUSD.fx	3:30:00 PM	1.13653	1.13608			N/A
6/26/2019	EURZAR	9:30:00 AM	16.2848	16.3001			N/A
6/26/2019	EURZAR	11:30:00 AM	16.2758	16.2783			N/A
6/26/2019	EURZAR	1:30:00 PM	16.292	16.3049			N/A
6/26/2019	EURZAR	3:30:00 PM	16.2653	16.2817			N/A
6/26/2019	EURZAR.fx	9:30:00 AM	16.28369	16.30069			N/A
6/26/2019	EURZAR.fx	11:30:00 AM	16.27531	16.27931			N/A
6/26/2019	EURZAR.fx	1:30:00 PM	16.29173	16.30557			N/A
6/26/2019	EURZAR.fx	3:30:00 PM	16.26439	16.28259			N/A
6/26/2019	GBPAUD	9:30:00 AM	1.81649	1.81691			N/A
6/26/2019	GBPAUD	11:30:00 AM	1.81558	1.8163			N/A
6/26/2019	GBPAUD	1:30:00 PM	1.81871	1.81904			N/A
6/26/2019	GBPAUD	3:30:00 PM	1.81584	1.81576			N/A
6/26/2019	GBPAUD.fx	9:30:00 AM	1.81686	1.81652			N/A
6/26/2019	GBPAUD.fx	11:30:00 AM	1.81596	1.81589			N/A
6/26/2019	GBPAUD.fx	1:30:00 PM	1.81911	1.81862			N/A
6/26/2019	GBPAUD.fx	3:30:00 PM	1.81618	1.8154			N/A
6/26/2019	GBPCAD	9:30:00 AM	1.66874	1.66923			N/A
6/26/2019	GBPCAD	11:30:00 AM	1.66824	1.66891			N/A
6/26/2019	GBPCAD	1:30:00 PM	1.67118	1.67164			N/A
6/26/2019	GBPCAD	3:30:00 PM	1.6677	1.66751			N/A
6/26/2019	GBPCAD.fx	9:30:00 AM	1.66911	1.66883			N/A
6/26/2019	GBPCAD.fx	11:30:00 AM	1.66863	1.66852			N/A
6/26/2019	GBPCAD.fx	1:30:00 PM	1.67155	1.67125			N/A
6/26/2019	GBPCAD.fx	3:30:00 PM	1.66798	1.66712			N/A
6/26/2019	GBPCHF	9:30:00 AM	1.2374	1.23749			N/A
6/26/2019	GBPCHF	11:30:00 AM	1.23652	1.23672			N/A
6/26/2019	GBPCHF	1:30:00 PM	1.24243	1.24265			N/A
6/26/2019	GBPCHF	3:30:00 PM	1.24005	1.24035			N/A

6/26/2019	GBPCHF.fx	9:30:00 AM	1.23758	1.2373			N/A
6/26/2019	GBPCHF.fx	11:30:00 AM	1.23672	1.23652			N/A
6/26/2019	GBPCHF.fx	1:30:00 PM	1.24262	1.24245			N/A
6/26/2019	GBPCHF.fx	3:30:00 PM	1.24021	1.24019			N/A
6/26/2019	GBPCZK	9:30:00 AM	28.361	28.381			N/A
6/26/2019	GBPCZK	11:30:00 AM	28.414	28.432			N/A
6/26/2019	GBPCZK	1:30:00 PM	28.485	28.504			N/A
6/26/2019	GBPCZK	3:30:00 PM	28.396	28.414			N/A
6/26/2019	GBPDKK	9:30:00 AM	8.323	8.334			N/A
6/26/2019	GBPDKK	11:30:00 AM	8.327	8.338			N/A
6/26/2019	GBPDKK	1:30:00 PM	8.343	8.353			N/A
6/26/2019	GBPDKK	3:30:00 PM	8.327	8.337			N/A
6/26/2019	GBPDKK.fx	9:30:00 AM	8.3213	8.3333			N/A
6/26/2019	GBPDKK.fx	11:30:00 AM	8.3255	8.338			N/A
6/26/2019	GBPDKK.fx	1:30:00 PM	8.341	8.3534			N/A
6/26/2019	GBPDKK.fx	3:30:00 PM	8.3252	8.3368			N/A
6/26/2019	GBPHKD	9:30:00 AM	9.8903	9.8936			N/A
6/26/2019	GBPHKD	11:30:00 AM	9.8952	9.8999			N/A
6/26/2019	GBPHKD	1:30:00 PM	9.9136	9.9167			N/A
6/26/2019	GBPHKD	3:30:00 PM	9.8988	9.9			N/A
6/26/2019	GBPHUF	9:30:00 AM	360.32	360.69			N/A
6/26/2019	GBPHUF	11:30:00 AM	360.81	360.98			N/A
6/26/2019	GBPHUF	1:30:00 PM	361.25	361.67			N/A
6/26/2019	GBPHUF	3:30:00 PM	360.41	360.83			N/A
6/26/2019	GBPJPY	9:30:00 AM	136.06	136.048			N/A
6/26/2019	GBPJPY	11:30:00 AM	136.196	136.202			N/A
6/26/2019	GBPJPY	1:30:00 PM	136.764	136.792			N/A
6/26/2019	GBPJPY	3:30:00 PM	136.601	136.564			N/A
6/26/2019	GBPJPY.fx	9:30:00 AM	136.078	136.03			N/A
6/26/2019	GBPJPY.fx	11:30:00 AM	136.217	136.182			N/A
6/26/2019	GBPJPY.fx	1:30:00 PM	136.783	136.774			N/A
6/26/2019	GBPJPY.fx	3:30:00 PM	136.614	136.547			N/A
6/26/2019	GBPMXN	9:30:00 AM	24.3418	24.3519			N/A
6/26/2019	GBPMXN	11:30:00 AM	24.3215	24.3311			N/A

6/26/2019	GBPMXN	1:30:00 PM	24.3539	24.3595			N/A
6/26/2019	GBPMXN	3:30:00 PM	24.3131	24.3171			N/A
6/26/2019	GBPNOK	9:30:00 AM	10.8018	10.8113			N/A
6/26/2019	GBPNOK	11:30:00 AM	10.7889	10.7979			N/A
6/26/2019	GBPNOK	1:30:00 PM	10.8007	10.8094			N/A
6/26/2019	GBPNOK	3:30:00 PM	10.794	10.8007			N/A
6/26/2019	GBPNOK.fx	9:30:00 AM	10.80647	10.8065			N/A
6/26/2019	GBPNOK.fx	11:30:00 AM	10.79367	10.79326			N/A
6/26/2019	GBPNOK.fx	1:30:00 PM	10.80569	10.80446			N/A
6/26/2019	GBPNOK.fx	3:30:00 PM	10.79817	10.79575			N/A
6/26/2019	GBPNZD	9:30:00 AM	1.90237	1.90269			N/A
6/26/2019	GBPNZD	11:30:00 AM	1.90015	1.90082			N/A
6/26/2019	GBPNZD	1:30:00 PM	1.9026	1.90317			N/A
6/26/2019	GBPNZD	3:30:00 PM	1.89793	1.8975			N/A
6/26/2019	GBPNZD.fx	9:30:00 AM	1.90275	1.90229			N/A
6/26/2019	GBPNZD.fx	11:30:00 AM	1.90052	1.90046			N/A
6/26/2019	GBPNZD.fx	1:30:00 PM	1.90296	1.90281			N/A
6/26/2019	GBPNZD.fx	3:30:00 PM	1.89821	1.89711			N/A
6/26/2019	GBPPLN	9:30:00 AM	4.747	4.7484			N/A
6/26/2019	GBPPLN	11:30:00 AM	4.7583	4.7582			N/A
6/26/2019	GBPPLN	1:30:00 PM	4.7658	4.7668			N/A
6/26/2019	GBPPLN	3:30:00 PM	4.7559	4.7572			N/A
6/26/2019	GBPPLN.fx	9:30:00 AM	4.74464	4.75056			N/A
6/26/2019	GBPPLN.fx	11:30:00 AM	4.75614	4.76046			N/A
6/26/2019	GBPPLN.fx	1:30:00 PM	4.76355	4.76904			N/A
6/26/2019	GBPPLN.fx	3:30:00 PM	4.75345	4.75938			N/A
6/26/2019	GBPSEK	9:30:00 AM	11.7688	11.776			N/A
6/26/2019	GBPSEK	11:30:00 AM	11.7488	11.7545			N/A
6/26/2019	GBPSEK	1:30:00 PM	11.7694	11.7747			N/A
6/26/2019	GBPSEK	3:30:00 PM	11.7697	11.7729			N/A
6/26/2019	GBPSEK.fx	9:30:00 AM	11.76491	11.77985			N/A
6/26/2019	GBPSEK.fx	11:30:00 AM	11.74465	11.75847			N/A
6/26/2019	GBPSEK.fx	1:30:00 PM	11.76563	11.7782			N/A
6/26/2019	GBPSEK.fx	3:30:00 PM	11.76126	11.77694			N/A

6/26/2019	GBPSGD	9:30:00 AM	1.7166	1.7171			N/A
6/26/2019	GBPSGD	11:30:00 AM	1.717	1.7176			N/A
6/26/2019	GBPSGD	1:30:00 PM	1.7201	1.7206			N/A
6/26/2019	GBPSGD	3:30:00 PM	1.7171	1.7172			N/A
6/26/2019	GBPSGD.fx	9:30:00 AM	1.71467	1.71883			N/A
6/26/2019	GBPSGD.fx	11:30:00 AM	1.71514	1.7194			N/A
6/26/2019	GBPSGD.fx	1:30:00 PM	1.71823	1.72241			N/A
6/26/2019	GBPSGD.fx	3:30:00 PM	1.71523	1.71898			N/A
6/26/2019	GBPUSD	9:30:00 AM	1.2672	1.26698			N/A
6/26/2019	GBPUSD	11:30:00 AM	1.26781	1.26769			N/A
6/26/2019	GBPUSD	1:30:00 PM	1.27044	1.27014			N/A
6/26/2019	GBPUSD	3:30:00 PM	1.26841	1.26776	1100	1100	N/A
6/26/2019	GBPUSD.fx	9:30:00 AM	1.26724	1.26693			N/A
6/26/2019	GBPUSD.fx	11:30:00 AM	1.26786	1.26764			N/A
6/26/2019	GBPUSD.fx	1:30:00 PM	1.27049	1.27009			N/A
6/26/2019	GBPUSD.fx	3:30:00 PM	1.26843	1.26772			N/A
6/26/2019	GBPZAR	9:30:00 AM	18.1596	18.1867			N/A
6/26/2019	GBPZAR	11:30:00 AM	18.1594	18.1703			N/A
6/26/2019	GBPZAR	1:30:00 PM	18.2129	18.2365			N/A
6/26/2019	GBPZAR	3:30:00 PM	18.1504	18.1727			N/A
6/26/2019	GBPZAR.fx	9:30:00 AM	18.1666	18.1801			N/A
6/26/2019	GBPZAR.fx	11:30:00 AM	18.1674	18.1633			N/A
6/26/2019	GBPZAR.fx	1:30:00 PM	18.2201	18.2292			N/A
6/26/2019	GBPZAR.fx	3:30:00 PM	18.1563	18.1653			N/A
6/26/2019	GOLD	9:30:00 AM	1408.61	1408.53			N/A
6/26/2019	GOLD	11:30:00 AM	1412.36	1412.4			N/A
6/26/2019	GOLD	1:30:00 PM	1406.68	1406.04			N/A
6/26/2019	GOLD	3:30:00 PM	1410.19	1409.62			N/A
6/26/2019	HKDJPY	9:30:00 AM	13.75	13.76			N/A
6/26/2019	HKDJPY	11:30:00 AM	13.76	13.76			N/A
6/26/2019	HKDJPY	1:30:00 PM	13.79	13.8			N/A
6/26/2019	HKDJPY	3:30:00 PM	13.79	13.8			N/A
6/26/2019	HKDJPY.fx	9:30:00 AM	13.746	13.752			N/A
6/26/2019	HKDJPY.fx	11:30:00 AM	13.754	13.758			N/A

6/26/2019	HKDJPY.fx	1:30:00 PM	13.789	13.793			N/A
6/26/2019	HKDJPY.fx	3:30:00 PM	13.788	13.793			N/A
6/26/2019	HUFJPY	9:30:00 AM	0.3776	0.3779			N/A
6/26/2019	HUFJPY	11:30:00 AM	0.3776	0.3779			N/A
6/26/2019	HUFJPY	1:30:00 PM	0.3783	0.3787			N/A
6/26/2019	HUFJPY	3:30:00 PM	0.3787	0.379			N/A
6/26/2019	JP225.i	9:30:00 AM	21052.73	21067.73			N/A
6/26/2019	JP225.i	11:30:00 AM	21046.07	21065.23			N/A
6/26/2019	JP225.i	1:30:00 PM	21225.23	21237.73			N/A
6/26/2019	JP225.i	3:30:00 PM	21192.73	21202.73			N/A
6/26/2019	MXNJPY	9:30:00 AM	5.59	5.6			N/A
6/26/2019	MXNJPY	11:30:00 AM	5.6	5.6			N/A
6/26/2019	MXNJPY	1:30:00 PM	5.61	5.62			N/A
6/26/2019	MXNJPY	3:30:00 PM	5.61	5.62			N/A
6/26/2019	NASDAQ.i	9:30:00 AM					N/A
6/26/2019	NASDAQ.i	11:30:00 AM					N/A
6/26/2019	NASDAQ.i	1:30:00 PM					N/A
6/26/2019	NASDAQ.i	3:30:00 PM					N/A
6/26/2019	NOKJPY	9:30:00 AM	12.58	12.61			N/A
6/26/2019	NOKJPY	11:30:00 AM	12.61	12.63			N/A
6/26/2019	NOKJPY	1:30:00 PM	12.65	12.68			N/A
6/26/2019	NOKJPY	3:30:00 PM	12.64	12.67			N/A
6/26/2019	NOKJPY.fx	9:30:00 AM	12.586	12.593			N/A
6/26/2019	NOKJPY.fx	11:30:00 AM	12.618	12.619			N/A
6/26/2019	NOKJPY.fx	1:30:00 PM	12.656	12.66			N/A
6/26/2019	NOKJPY.fx	3:30:00 PM	12.645	12.652			N/A
6/26/2019	NZDCAD	9:30:00 AM	0.8769	0.87758			N/A
6/26/2019	NZDCAD	11:30:00 AM	0.8776	0.87828			N/A
6/26/2019	NZDCAD	1:30:00 PM	0.87806	0.87861			N/A
6/26/2019	NZDCAD	3:30:00 PM	0.87844	0.87894			N/A
6/26/2019	NZDCAD.fx	9:30:00 AM	0.87723	0.87724			N/A
6/26/2019	NZDCAD.fx	11:30:00 AM	0.87795	0.87791			N/A
6/26/2019	NZDCAD.fx	1:30:00 PM	0.87839	0.87829			N/A
6/26/2019	NZDCAD.fx	3:30:00 PM	0.87875	0.87864			N/A

6/26/2019	NZDCHF	9:30:00 AM	0.65009	0.65076			N/A
6/26/2019	NZDCHF	11:30:00 AM	0.65043	0.65104			N/A
6/26/2019	NZDCHF	1:30:00 PM	0.65269	0.65323			N/A
6/26/2019	NZDCHF	3:30:00 PM	0.65337	0.65361			N/A
6/26/2019	NZDCHF.fx	9:30:00 AM	0.65043	0.65039			N/A
6/26/2019	NZDCHF.fx	11:30:00 AM	0.65077	0.65069			N/A
6/26/2019	NZDCHF.fx	1:30:00 PM	0.65302	0.65288			N/A
6/26/2019	NZDCHF.fx	3:30:00 PM	0.65371	0.6533			N/A
6/26/2019	NZDCZK	9:30:00 AM	14.905	14.918			N/A
6/26/2019	NZDCZK	11:30:00 AM	14.951	14.962			N/A
6/26/2019	NZDCZK	1:30:00 PM	14.97	14.979			N/A
6/26/2019	NZDCZK	3:30:00 PM	14.965	14.968			N/A
6/26/2019	NZDDKK	9:30:00 AM	4.375	4.378			N/A
6/26/2019	NZDDKK	11:30:00 AM	4.382	4.385			N/A
6/26/2019	NZDDKK	1:30:00 PM	4.385	4.388			N/A
6/26/2019	NZDDKK	3:30:00 PM	4.387	4.39			N/A
6/26/2019	NZDHKD	9:30:00 AM	5.1975	5.1999			N/A
6/26/2019	NZDHKD	11:30:00 AM	5.2059	5.2087			N/A
6/26/2019	NZDHKD	1:30:00 PM	5.2088	5.2106			N/A
6/26/2019	NZDHKD	3:30:00 PM	5.215	5.2165			N/A
6/26/2019	NZDHUF	9:30:00 AM	189.34	189.62			N/A
6/26/2019	NZDHUF	11:30:00 AM	189.82	189.96			N/A
6/26/2019	NZDHUF	1:30:00 PM	189.83	190.07			N/A
6/26/2019	NZDHUF	3:30:00 PM	189.91	190.09			N/A
6/26/2019	NZDJPY	9:30:00 AM	71.479	71.545			N/A
6/26/2019	NZDJPY	11:30:00 AM	71.637	71.695			N/A
6/26/2019	NZDJPY	1:30:00 PM	71.854	71.912			N/A
6/26/2019	NZDJPY	3:30:00 PM	71.942	72.002			N/A
6/26/2019	NZDJPY.fx	9:30:00 AM	71.511	71.513			N/A
6/26/2019	NZDJPY.fx	11:30:00 AM	71.669	71.662			N/A
6/26/2019	NZDJPY.fx	1:30:00 PM	71.885	71.88			N/A
6/26/2019	NZDJPY.fx	3:30:00 PM	71.974	71.974			N/A
6/26/2019	NZDMXN	9:30:00 AM	12.793	12.7987			N/A
6/26/2019	NZDMXN	11:30:00 AM	12.7975	12.8002			N/A

6/26/2019	NZDMXN	1:30:00 PM	12.7971	12.7995			N/A
6/26/2019	NZDMXN	3:30:00 PM	12.8095	12.8109			N/A
6/26/2019	NZDNOK	9:30:00 AM	5.6753	5.6792			N/A
6/26/2019	NZDNOK	11:30:00 AM	5.6757	5.6766			N/A
6/26/2019	NZDNOK	1:30:00 PM	5.6753	5.6774			N/A
6/26/2019	NZDNOK	3:30:00 PM	5.6844	5.6855			N/A
6/26/2019	NZDPLN	9:30:00 AM	2.4936	2.4948			N/A
6/26/2019	NZDPLN	11:30:00 AM	2.5024	2.5029			N/A
6/26/2019	NZDPLN	1:30:00 PM	2.5038	2.5046			N/A
6/26/2019	NZDPLN	3:30:00 PM	2.5046	2.5045			N/A
6/26/2019	NZDSEK	9:30:00 AM	6.1819	6.1876			N/A
6/26/2019	NZDSEK	11:30:00 AM	6.1784	6.1835			N/A
6/26/2019	NZDSEK	1:30:00 PM	6.1822	6.1863			N/A
6/26/2019	NZDSEK	3:30:00 PM	6.1972	6.1983			N/A
6/26/2019	NZDSGD	9:30:00 AM	0.902	0.9022			N/A
6/26/2019	NZDSGD	11:30:00 AM	0.9033	0.9039			N/A
6/26/2019	NZDSGD	1:30:00 PM	0.9038	0.9044			N/A
6/26/2019	NZDSGD	3:30:00 PM	0.9047	0.9051			N/A
6/26/2019	NZDSGD.fx	9:30:00 AM	0.90208	0.90268			N/A
6/26/2019	NZDSGD.fx	11:30:00 AM	0.90329	0.90388			N/A
6/26/2019	NZDSGD.fx	1:30:00 PM	0.90378	0.9043			N/A
6/26/2019	NZDSGD.fx	3:30:00 PM	0.90468	0.90501			N/A
6/26/2019	NZDUSD	9:30:00 AM	0.6659	0.66602			N/A
6/26/2019	NZDUSD	11:30:00 AM	0.66697	0.66704			N/A
6/26/2019	NZDUSD	1:30:00 PM	0.66749	0.66748			N/A
6/26/2019	NZDUSD	3:30:00 PM	0.66821	0.6682			N/A
6/26/2019	NZDUSD.fx	9:30:00 AM	0.66597	0.66603			N/A
6/26/2019	NZDUSD.fx	11:30:00 AM	0.66704	0.66705			N/A
6/26/2019	NZDUSD.fx	1:30:00 PM	0.66757	0.6675			N/A
6/26/2019	NZDUSD.fx	3:30:00 PM	0.66828	0.66823			N/A
6/26/2019	NZDZAR	9:30:00 AM	9.5392	9.5543			N/A
6/26/2019	NZDZAR	11:30:00 AM	9.5476	9.5557			N/A
6/26/2019	NZDZAR	1:30:00 PM	9.5669	9.5795			N/A
6/26/2019	NZDZAR	3:30:00 PM	9.5536	9.5665			N/A

6/26/2019	SEKJPY	9:30:00 AM	11.56	11.57			N/A
6/26/2019	SEKJPY	11:30:00 AM	11.58	11.6			N/A
6/26/2019	SEKJPY	1:30:00 PM	11.62	11.63			N/A
6/26/2019	SEKJPY	3:30:00 PM	11.61	11.61			N/A
6/26/2019	SEKJPY.fx	9:30:00 AM	11.55	11.565			N/A
6/26/2019	SEKJPY.fx	11:30:00 AM	11.583	11.595			N/A
6/26/2019	SEKJPY.fx	1:30:00 PM	11.612	11.626			N/A
6/26/2019	SEKJPY.fx	3:30:00 PM	11.595	11.611			N/A
6/26/2019	SGDJPY	9:30:00 AM	79.22	79.24			N/A
6/26/2019	SGDJPY	11:30:00 AM	79.32	79.3			N/A
6/26/2019	SGDJPY	1:30:00 PM	79.5	79.5			N/A
6/26/2019	SGDJPY	3:30:00 PM	79.51	79.53			N/A
6/26/2019	SILVER	9:30:00 AM	15.04	15.41			N/A
6/26/2019	SILVER	11:30:00 AM	15.14	15.5			N/A
6/26/2019	SILVER	1:30:00 PM	15.11	15.48			N/A
6/26/2019	SILVER	3:30:00 PM	15.14	15.5			N/A
6/26/2019	SPX500.i	9:30:00 AM	2920.46	2921.26			N/A
6/26/2019	SPX500.i	11:30:00 AM	2921.46	2922.51			N/A
6/26/2019	SPX500.i	1:30:00 PM	2935.19	2935.51			N/A
6/26/2019	SPX500.i	3:30:00 PM	2930.96	2931.01			N/A
6/26/2019	UK100.i	9:30:00 AM	7418.84	7419.51			N/A
6/26/2019	UK100.i	11:30:00 AM	7428.09	7428.92			N/A
6/26/2019	UK100.i	1:30:00 PM	7437.42	7437.42			N/A
6/26/2019	UK100.i	3:30:00 PM	7439.76	7440.42			N/A
6/26/2019	USDCAD	9:30:00 AM	1.31718	1.31725			N/A
6/26/2019	USDCAD	11:30:00 AM	1.31614	1.31623			N/A
6/26/2019	USDCAD	1:30:00 PM	1.3158	1.31579			N/A
6/26/2019	USDCAD	3:30:00 PM	1.31511	1.31501			N/A
6/26/2019	USDCAD.fx	9:30:00 AM	1.31721	1.31721			N/A
6/26/2019	USDCAD.fx	11:30:00 AM	1.31617	1.3162			N/A
6/26/2019	USDCAD.fx	1:30:00 PM	1.31583	1.31575			N/A
6/26/2019	USDCAD.fx	3:30:00 PM	1.31513	1.31499			N/A
6/26/2019	USDCHF	9:30:00 AM	0.97656	0.97661			N/A
6/26/2019	USDCHF	11:30:00 AM	0.97554	0.97549			N/A

6/26/2019	USDCHF	1:30:00 PM	0.97837	0.97797			N/A
6/26/2019	USDCHF	3:30:00 PM	0.9782	0.97772			N/A
6/26/2019	USDCHF.fx	9:30:00 AM	0.9766	0.97655			N/A
6/26/2019	USDCHF.fx	11:30:00 AM	0.97558	0.97543			N/A
6/26/2019	USDCHF.fx	1:30:00 PM	0.97841	0.97791			N/A
6/26/2019	USDCHF.fx	3:30:00 PM	0.97823	0.97768			N/A
6/26/2019	USDCZK	9:30:00 AM	22.4	22.422			N/A
6/26/2019	USDCZK	11:30:00 AM	22.433	22.452			N/A
6/26/2019	USDCZK	1:30:00 PM	22.445	22.458			N/A
6/26/2019	USDCZK	3:30:00 PM	22.413	22.428			N/A
6/26/2019	USDCZK.fx	9:30:00 AM	22.4076	22.4137			N/A
6/26/2019	USDCZK.fx	11:30:00 AM	22.4416	22.4421			N/A
6/26/2019	USDCZK.fx	1:30:00 PM	22.4537	22.4492			N/A
6/26/2019	USDCZK.fx	3:30:00 PM	22.4217	22.4205			N/A
6/26/2019	USDDKK	9:30:00 AM	6.5711	6.5748			N/A
6/26/2019	USDDKK	11:30:00 AM	6.5715	6.5742			N/A
6/26/2019	USDDKK	1:30:00 PM	6.5715	6.5726			N/A
6/26/2019	USDDKK	3:30:00 PM	6.5698	6.571			N/A
6/26/2019	USDDKK.fx	9:30:00 AM	6.57147	6.57283			N/A
6/26/2019	USDDKK.fx	11:30:00 AM	6.57215	6.57212			N/A
6/26/2019	USDDKK.fx	1:30:00 PM	6.57193	6.57049			N/A
6/26/2019	USDDKK.fx	3:30:00 PM	6.57025	6.56897			N/A
6/26/2019	USDHKD	9:30:00 AM	7.8089	7.8092			N/A
6/26/2019	USDHKD	11:30:00 AM	7.8093	7.8096			N/A
6/26/2019	USDHKD	1:30:00 PM	7.8076	7.8079			N/A
6/26/2019	USDHKD	3:30:00 PM	7.8086	7.8084			N/A
6/26/2019	USDHKD.fx	9:30:00 AM	7.80894	7.80924			N/A
6/26/2019	USDHKD.fx	11:30:00 AM	7.80921	7.80968			N/A
6/26/2019	USDHKD.fx	1:30:00 PM	7.80754	7.80811			N/A
6/26/2019	USDHKD.fx	3:30:00 PM	7.80857	7.80901			N/A
6/26/2019	USDHUF	9:30:00 AM	284.43	284.9			N/A
6/26/2019	USDHUF	11:30:00 AM	284.73	285.06			N/A
6/26/2019	USDHUF	1:30:00 PM	284.52	284.84			N/A
6/26/2019	USDHUF	3:30:00 PM	284.48	284.82			N/A

6/26/2019	USDHUF.fx	9:30:00 AM	284.605	284.725			N/A
6/26/2019	USDHUF.fx	11:30:00 AM	284.935	284.855			N/A
6/26/2019	USDHUF.fx	1:30:00 PM	284.708	284.645			N/A
6/26/2019	USDHUF.fx	3:30:00 PM	284.674	284.626			N/A
6/26/2019	USDINR	9:30:00 AM	64.32	74.31			N/A
6/26/2019	USDINR	11:30:00 AM	64.28	74.27			N/A
6/26/2019	USDINR	1:30:00 PM					N/A
6/26/2019	USDINR	3:30:00 PM					N/A
6/26/2019	USDJPY	9:30:00 AM	107.377	107.372			N/A
6/26/2019	USDJPY	11:30:00 AM	107.437	107.429			N/A
6/26/2019	USDJPY	1:30:00 PM	107.697	107.672			N/A
6/26/2019	USDJPY	3:30:00 PM	107.704	107.692			N/A
6/26/2019	USDJPY.fx	9:30:00 AM	107.383	107.365			N/A
6/26/2019	USDJPY.fx	11:30:00 AM	107.443	107.421			N/A
6/26/2019	USDJPY.fx	1:30:00 PM	107.702	107.664			N/A
6/26/2019	USDJPY.fx	3:30:00 PM	107.707	107.686			N/A
6/26/2019	USDMXN	9:30:00 AM	19.217	19.225			N/A
6/26/2019	USDMXN	11:30:00 AM	19.195	19.196			N/A
6/26/2019	USDMXN	1:30:00 PM	19.178	19.184			N/A
6/26/2019	USDMXN	3:30:00 PM	19.179	19.185			N/A
6/26/2019	USDMXN.f	9:30:00 AM					N/A
6/26/2019	USDMXN.f	11:30:00 AM					N/A
6/26/2019	USDMXN.f	1:30:00 PM					N/A
6/26/2019	USDMXN.f	3:30:00 PM					N/A
6/26/2019	USDNOK	9:30:00 AM	8.5248	8.5334			N/A
6/26/2019	USDNOK	11:30:00 AM	8.5114	8.5171			N/A
6/26/2019	USDNOK	1:30:00 PM	8.5043	8.5081			N/A
6/26/2019	USDNOK	3:30:00 PM	8.5119	8.518			N/A
6/26/2019	USDNOK.fx	9:30:00 AM	8.52853	8.52904			N/A
6/26/2019	USDNOK.fx	11:30:00 AM	8.51517	8.51282			N/A
6/26/2019	USDNOK.fx	1:30:00 PM	8.50807	8.50367			N/A
6/26/2019	USDNOK.fx	3:30:00 PM	8.5161	8.51355			N/A
6/26/2019	USDPLN	9:30:00 AM	3.7462	3.7476			N/A
6/26/2019	USDPLN	11:30:00 AM	3.7535	3.7531			N/A

6/26/2019	USDPLN	1:30:00 PM	3.7524	3.752			N/A
6/26/2019	USDPLN	3:30:00 PM	3.7509	3.7509			N/A
6/26/2019	USDPLN.fx	9:30:00 AM	3.74538	3.74841			N/A
6/26/2019	USDPLN.fx	11:30:00 AM	3.75273	3.75391			N/A
6/26/2019	USDPLN.fx	1:30:00 PM	3.7516	3.75276			N/A
6/26/2019	USDPLN.fx	3:30:00 PM	3.75007	3.75172			N/A
6/26/2019	USDRUB	9:30:00 AM					N/A
6/26/2019	USDRUB	11:30:00 AM	62.681	63.048			N/A
6/26/2019	USDRUB	1:30:00 PM	62.992	63.386			N/A
6/26/2019	USDRUB	3:30:00 PM	62.838	63.223			N/A
6/26/2019	USDSEK	9:30:00 AM	9.2894	9.2908			N/A
6/26/2019	USDSEK	11:30:00 AM	9.2692	9.2697			N/A
6/26/2019	USDSEK	1:30:00 PM	9.2674	9.2657			N/A
6/26/2019	USDSEK	3:30:00 PM	9.2795	9.28			N/A
6/26/2019	USDSEK.fx	9:30:00 AM	9.2921	9.28877			N/A
6/26/2019	USDSEK.fx	11:30:00 AM	9.27174	9.26781			N/A
6/26/2019	USDSEK.fx	1:30:00 PM	9.27019	9.26387			N/A
6/26/2019	USDSEK.fx	3:30:00 PM	9.28258	9.27862			N/A
6/26/2019	USDSGD	9:30:00 AM	1.3547	1.355			N/A
6/26/2019	USDSGD	11:30:00 AM	1.3545	1.3548			N/A
6/26/2019	USDSGD	1:30:00 PM	1.3542	1.3544			N/A
6/26/2019	USDSGD	3:30:00 PM	1.354	1.3543			N/A
6/26/2019	USDSGD.fx	9:30:00 AM	1.35466	1.35512			N/A
6/26/2019	USDSGD.fx	11:30:00 AM	1.35439	1.35478			N/A
6/26/2019	USDSGD.fx	1:30:00 PM	1.35413	1.35442			N/A
6/26/2019	USDSGD.fx	3:30:00 PM	1.35391	1.35427			N/A
6/26/2019	USDZAR	9:30:00 AM	14.3353	14.3488			N/A
6/26/2019	USDZAR	11:30:00 AM	14.3286	14.3291			N/A
6/26/2019	USDZAR	1:30:00 PM	14.3431	14.3554			N/A
6/26/2019	USDZAR	3:30:00 PM	14.3133	14.3284			N/A
6/26/2019	USDZAR.fx	9:30:00 AM	14.3411	14.34345			N/A
6/26/2019	USDZAR.fx	11:30:00 AM	14.33287	14.32292			N/A
6/26/2019	USDZAR.fx	1:30:00 PM	14.34837	14.35052			N/A
6/26/2019	USDZAR.fx	3:30:00 PM	14.31947	14.32263			N/A

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6/26/2019	XAUUSD	11:30:00 AM	1412.36	1412.4			N/A
6/26/2019	XAUUSD	1:30:00 PM	1406.66	1406.05			N/A
6/26/2019	XAUUSD	3:30:00 PM	1410.2	1409.63			N/A
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6/26/2019	ZARJPY.fx	1:30:00 PM	7.503	7.507			N/A
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6/27/2019	#PG	3:30:00 PM					N/A
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6/27/2019	#POT	3:30:00 PM					N/A
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6/27/2019	#QCOM	1:30:00 PM					N/A
6/27/2019	#QCOM	3:30:00 PM					N/A
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6/27/2019	#QQQ	1:30:00 PM					N/A
6/27/2019	#QQQ	3:30:00 PM					N/A
6/27/2019	#Ripple	9:30:00 AM	0.4299	0.4254			N/A
6/27/2019	#Ripple	11:30:00 AM	0.4244	0.4279			N/A
6/27/2019	#Ripple	1:30:00 PM	0.4214	0.4253			N/A
6/27/2019	#Ripple	3:30:00 PM	0.4236	0.4278			N/A
6/27/2019	#S	9:30:00 AM					N/A
6/27/2019	#S	11:30:00 AM					N/A
6/27/2019	#S	1:30:00 PM					N/A
6/27/2019	#S	3:30:00 PM					N/A
6/27/2019	#SBUX	9:30:00 AM					N/A
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6/27/2019	#SBUX	1:30:00 PM					N/A
6/27/2019	#SBUX	3:30:00 PM					N/A
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6/27/2019	#SNE	3:30:00 PM					N/A
6/27/2019	#SPY	9:30:00 AM					N/A
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6/27/2019	#SPY	1:30:00 PM					N/A
6/27/2019	#SPY	3:30:00 PM					N/A
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6/27/2019	#T	11:30:00 AM					N/A
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6/27/2019	#TRV	1:30:00 PM					N/A
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6/27/2019	#TSCO	1:30:00 PM					N/A
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6/27/2019	#UBS	11:30:00 AM					N/A
6/27/2019	#UBS	1:30:00 PM					N/A
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6/27/2019	#UL	9:30:00 AM					N/A
6/27/2019	#UL	11:30:00 AM					N/A
6/27/2019	#UL	1:30:00 PM					N/A
6/27/2019	#UL	3:30:00 PM					N/A
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6/27/2019	#V	1:30:00 PM					N/A
6/27/2019	#V	3:30:00 PM					N/A
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6/27/2019	#VOD	11:30:00 AM					N/A
6/27/2019	#VOD	1:30:00 PM					N/A
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6/27/2019	#VZ	11:30:00 AM					N/A
6/27/2019	#VZ	1:30:00 PM					N/A
6/27/2019	#VZ	3:30:00 PM					N/A
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6/27/2019	#WDC	3:30:00 PM					N/A
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6/27/2019	#WFC	3:30:00 PM					N/A
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6/27/2019	#WMT	11:30:00 AM					N/A

6/27/2019	#WMT	1:30:00 PM					N/A
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6/27/2019	#YHOO	3:30:00 PM					N/A
6/27/2019	#ZNGA	9:30:00 AM					N/A
6/27/2019	#ZNGA	11:30:00 AM					N/A
6/27/2019	#ZNGA	1:30:00 PM					N/A
6/27/2019	#ZNGA	3:30:00 PM					N/A
6/27/2019	AUDCAD	9:30:00 AM	0.91745	0.9179			N/A
6/27/2019	AUDCAD	11:30:00 AM	0.91773	0.91838			N/A
6/27/2019	AUDCAD	1:30:00 PM	0.91775	0.91843			N/A
6/27/2019	AUDCAD	3:30:00 PM	0.91791	0.91842			N/A
6/27/2019	AUDCAD.fx	9:30:00 AM	0.9178	0.91756			N/A
6/27/2019	AUDCAD.fx	11:30:00 AM	0.91806	0.91804			N/A
6/27/2019	AUDCAD.fx	1:30:00 PM	0.91807	0.91808			N/A
6/27/2019	AUDCAD.fx	3:30:00 PM	0.91822	0.9181			N/A
6/27/2019	AUDCHF	9:30:00 AM	0.68502	0.68569			N/A
6/27/2019	AUDCHF	11:30:00 AM	0.68459	0.68524			N/A
6/27/2019	AUDCHF	1:30:00 PM	0.68326	0.68385			N/A
6/27/2019	AUDCHF	3:30:00 PM	0.68419	0.68477			N/A
6/27/2019	AUDCHF.fx	9:30:00 AM	0.68536	0.68534			N/A
6/27/2019	AUDCHF.fx	11:30:00 AM	0.68493	0.68489			N/A
6/27/2019	AUDCHF.fx	1:30:00 PM	0.68361	0.68351			N/A
6/27/2019	AUDCHF.fx	3:30:00 PM	0.68453	0.68444			N/A
6/27/2019	AUDCZK	9:30:00 AM	15.626	15.643			N/A
6/27/2019	AUDCZK	11:30:00 AM	15.627	15.643			N/A
6/27/2019	AUDCZK	1:30:00 PM	15.62	15.633			N/A
6/27/2019	AUDCZK	3:30:00 PM	15.632	15.645			N/A

6/27/2019	AUDDKK	9:30:00 AM	4.5925	4.5971			N/A
6/27/2019	AUDDKK	11:30:00 AM	4.59	4.5945			N/A
6/27/2019	AUDDKK	1:30:00 PM	4.5881	4.5924			N/A
6/27/2019	AUDDKK	3:30:00 PM	4.5914	4.5957			N/A
6/27/2019	AUDHKD	9:30:00 AM	5.4577	5.4607			N/A
6/27/2019	AUDHKD	11:30:00 AM	5.462	5.4658			N/A
6/27/2019	AUDHKD	1:30:00 PM	5.4604	5.4639			N/A
6/27/2019	AUDHKD	3:30:00 PM	5.4643	5.4682			N/A
6/27/2019	AUDHUF	9:30:00 AM	198.95	199.19			N/A
6/27/2019	AUDHUF	11:30:00 AM	198.76	199			N/A
6/27/2019	AUDHUF	1:30:00 PM	198.78	198.99			N/A
6/27/2019	AUDHUF	3:30:00 PM	198.99	199.12			N/A
6/27/2019	AUDJPY	9:30:00 AM	75.521	75.584			N/A
6/27/2019	AUDJPY	11:30:00 AM	75.505	75.569			N/A
6/27/2019	AUDJPY	1:30:00 PM	75.394	75.459			N/A
6/27/2019	AUDJPY	3:30:00 PM	75.49	75.528			N/A
6/27/2019	AUDJPY.fx	9:30:00 AM	75.554	75.548			N/A
6/27/2019	AUDJPY.fx	11:30:00 AM	75.538	75.534			N/A
6/27/2019	AUDJPY.fx	1:30:00 PM	75.428	75.424			N/A
6/27/2019	AUDJPY.fx	3:30:00 PM	75.523	75.497			N/A
6/27/2019	AUDMXN	9:30:00 AM	13.3667	13.3761			N/A
6/27/2019	AUDMXN	11:30:00 AM	13.3654	13.3757			N/A
6/27/2019	AUDMXN	1:30:00 PM	13.3546	13.3643			N/A
6/27/2019	AUDMXN	3:30:00 PM	13.357	13.3638			N/A
6/27/2019	AUDNOK	9:30:00 AM	5.9428	5.9473			N/A
6/27/2019	AUDNOK	11:30:00 AM	5.9504	5.9541			N/A
6/27/2019	AUDNOK	1:30:00 PM	5.9541	5.9587			N/A
6/27/2019	AUDNOK	3:30:00 PM	5.9571	5.9604			N/A
6/27/2019	AUDNOK.f	9:30:00 AM	5.9441	5.9458			N/A
6/27/2019	AUDNOK.f	11:30:00 AM	5.9518	5.9524			N/A
6/27/2019	AUDNOK.f	1:30:00 PM	5.9555	5.9572			N/A
6/27/2019	AUDNOK.f	3:30:00 PM	5.9584	5.9601			N/A
6/27/2019	AUDNZD	9:30:00 AM	1.04672	1.04763			N/A
6/27/2019	AUDNZD	11:30:00 AM	1.04567	1.04656			N/A

6/27/2019	AUDNZD	1:30:00 PM	1.04478	1.04566			N/A
6/27/2019	AUDNZD	3:30:00 PM	1.04513	1.04593			N/A
6/27/2019	AUDNZD.fx	9:30:00 AM	1.04716	1.04719			N/A
6/27/2019	AUDNZD.fx	11:30:00 AM	1.04612	1.0461			N/A
6/27/2019	AUDNZD.fx	1:30:00 PM	1.04522	1.0452			N/A
6/27/2019	AUDNZD.fx	3:30:00 PM	1.04551	1.04548			N/A
6/27/2019	AUDPLN	9:30:00 AM	2.6206	2.6237			N/A
6/27/2019	AUDPLN	11:30:00 AM	2.6174	2.6205			N/A
6/27/2019	AUDPLN	1:30:00 PM	2.6157	2.6187			N/A
6/27/2019	AUDPLN	3:30:00 PM	2.615	2.6177			N/A
6/27/2019	AUDSEK	9:30:00 AM	6.4818	6.4846			N/A
6/27/2019	AUDSEK	11:30:00 AM	6.4867	6.4893			N/A
6/27/2019	AUDSEK	1:30:00 PM	6.4856	6.4884			N/A
6/27/2019	AUDSEK	3:30:00 PM	6.4935	6.4961			N/A
6/27/2019	AUDSEK.fx	9:30:00 AM	6.4769	6.4896			N/A
6/27/2019	AUDSEK.fx	11:30:00 AM	6.4819	6.4939			N/A
6/27/2019	AUDSEK.fx	1:30:00 PM	6.481	6.4929			N/A
6/27/2019	AUDSEK.fx	3:30:00 PM	6.4888	6.5006			N/A
6/27/2019	AUDSGD	9:30:00 AM	0.9471	0.9474			N/A
6/27/2019	AUDSGD	11:30:00 AM	0.9475	0.9475			N/A
6/27/2019	AUDSGD	1:30:00 PM	0.9471	0.9473			N/A
6/27/2019	AUDSGD	3:30:00 PM	0.9472	0.9474			N/A
6/27/2019	AUDSGD.fx	9:30:00 AM	0.94722	0.94727			N/A
6/27/2019	AUDSGD.fx	11:30:00 AM	0.94761	0.94771			N/A
6/27/2019	AUDSGD.fx	1:30:00 PM	0.9472	0.94722			N/A
6/27/2019	AUDSGD.fx	3:30:00 PM	0.9473	0.9473			N/A
6/27/2019	AUDUSD	9:30:00 AM	0.69895	0.6989			N/A
6/27/2019	AUDUSD	11:30:00 AM	0.69945	0.69954			N/A
6/27/2019	AUDUSD	1:30:00 PM	0.69924	0.69932			N/A
6/27/2019	AUDUSD	3:30:00 PM	0.69981	0.69981			N/A
6/27/2019	AUDUSD.fx	9:30:00 AM	0.699	0.69884			N/A
6/27/2019	AUDUSD.fx	11:30:00 AM	0.6995	0.69949			N/A
6/27/2019	AUDUSD.fx	1:30:00 PM	0.69929	0.69926			N/A
6/27/2019	AUDUSD.fx	3:30:00 PM	0.69985	0.69977			N/A

6/27/2019	AUDZAR	9:30:00 AM	9.9563	9.9689			N/A
6/27/2019	AUDZAR	11:30:00 AM	9.9125	9.9255			N/A
6/27/2019	AUDZAR	1:30:00 PM	9.8887	9.9038			N/A
6/27/2019	AUDZAR	3:30:00 PM	9.8813	9.8923			N/A
6/27/2019	AUS200.i	9:30:00 AM	6662.3	6664.7			N/A
6/27/2019	AUS200.i	11:30:00 AM	6667.22	6670.72			N/A
6/27/2019	AUS200.i	1:30:00 PM	6651.72	6654.22			N/A
6/27/2019	AUS200.i	3:30:00 PM	6653.22	6656.52			N/A
6/27/2019	BCHUSD	9:30:00 AM	468.02	465.87			N/A
6/27/2019	BCHUSD	11:30:00 AM	452.24	453.29			N/A
6/27/2019	BCHUSD	1:30:00 PM	431.82	432.37			N/A
6/27/2019	BCHUSD	3:30:00 PM	437.65	437.81			N/A
6/27/2019	CADCHF	9:30:00 AM	0.74654	0.74703			N/A
6/27/2019	CADCHF	11:30:00 AM	0.74567	0.74633			N/A
6/27/2019	CADCHF	1:30:00 PM	0.74423	0.74481			N/A
6/27/2019	CADCHF	3:30:00 PM	0.74522	0.74568			N/A
6/27/2019	CADCHF.fx	9:30:00 AM	0.74687	0.74668			N/A
6/27/2019	CADCHF.fx	11:30:00 AM	0.746	0.74598			N/A
6/27/2019	CADCHF.fx	1:30:00 PM	0.74457	0.74446			N/A
6/27/2019	CADCHF.fx	3:30:00 PM	0.74555	0.7454			N/A
6/27/2019	CADCZK	9:30:00 AM	17.032	17.045			N/A
6/27/2019	CADCZK	11:30:00 AM	17.023	17.039			N/A
6/27/2019	CADCZK	1:30:00 PM	17.016	17.028			N/A
6/27/2019	CADCZK	3:30:00 PM	17.028	17.041			N/A
6/27/2019	CADDDKK	9:30:00 AM	5.005	5.009			N/A
6/27/2019	CADDDKK	11:30:00 AM					N/A
6/27/2019	CADDDKK	1:30:00 PM					N/A
6/27/2019	CADDDKK	3:30:00 PM	5.002	5.003			N/A
6/27/2019	CADHKD	9:30:00 AM	5.9471	5.9509			N/A
6/27/2019	CADHKD	11:30:00 AM	5.9505	5.9545			N/A
6/27/2019	CADHKD	1:30:00 PM	5.9483	5.9517			N/A
6/27/2019	CADHKD	3:30:00 PM	5.9527	5.9558			N/A
6/27/2019	CADHUF	9:30:00 AM	216.88	216.99			N/A
6/27/2019	CADHUF	11:30:00 AM	216.55	216.72			N/A

6/27/2019	CADHUF	1:30:00 PM	216.57	216.72			N/A
6/27/2019	CADHUF	3:30:00 PM	216.79	216.83			N/A
6/27/2019	CADJPY	9:30:00 AM	82.304	82.351			N/A
6/27/2019	CADJPY	11:30:00 AM	82.238	82.304			N/A
6/27/2019	CADJPY	1:30:00 PM	82.116	82.185			N/A
6/27/2019	CADJPY	3:30:00 PM	82.218	82.253			N/A
6/27/2019	CADJPY.fx	9:30:00 AM	82.337	82.316			N/A
6/27/2019	CADJPY.fx	11:30:00 AM	82.271	82.27			N/A
6/27/2019	CADJPY.fx	1:30:00 PM	82.149	82.151			N/A
6/27/2019	CADJPY.fx	3:30:00 PM	82.251	82.227			N/A
6/27/2019	CADMXN	9:30:00 AM	14.5664	14.5775			N/A
6/27/2019	CADMXN	11:30:00 AM	14.5588	14.5711			N/A
6/27/2019	CADMXN	1:30:00 PM	14.5466	14.5585			N/A
6/27/2019	CADMXN	3:30:00 PM	14.5485	14.5563			N/A
6/27/2019	CADNOK	9:30:00 AM	6.4739	6.4788			N/A
6/27/2019	CADNOK	11:30:00 AM	6.4787	6.4836			N/A
6/27/2019	CADNOK	1:30:00 PM	6.4842	6.4882			N/A
6/27/2019	CADNOK	3:30:00 PM	6.4872	6.4877			N/A
6/27/2019	CADPLN	9:30:00 AM	2.8553	2.8571			N/A
6/27/2019	CADPLN	11:30:00 AM	2.8514	2.8533			N/A
6/27/2019	CADPLN	1:30:00 PM	2.8494	2.8509			N/A
6/27/2019	CADPLN	3:30:00 PM	2.8488	2.8483			N/A
6/27/2019	CADSEK	9:30:00 AM	7.0611	7.0638			N/A
6/27/2019	CADSEK	11:30:00 AM	7.0633	7.0672			N/A
6/27/2019	CADSEK	1:30:00 PM	7.0621	7.065			N/A
6/27/2019	CADSEK	3:30:00 PM	7.07	7.072			N/A
6/27/2019	CADSGD	9:30:00 AM	1.0313	1.0316			N/A
6/27/2019	CADSGD	11:30:00 AM	1.0315	1.0318			N/A
6/27/2019	CADSGD	1:30:00 PM	1.0308	1.0311			N/A
6/27/2019	CADSGD	3:30:00 PM	1.031	1.0313			N/A
6/27/2019	CADZAR	9:30:00 AM	10.8489	10.8623			N/A
6/27/2019	CADZAR	11:30:00 AM	10.7971	10.8126			N/A
6/27/2019	CADZAR	1:30:00 PM	10.7713	10.7887			N/A
6/27/2019	CADZAR	3:30:00 PM	10.7641	10.7742			N/A

6/27/2019	CHFCZK	9:30:00 AM	22.81	22.827			N/A
6/27/2019	CHFCZK	11:30:00 AM	22.824	22.84			N/A
6/27/2019	CHFCZK	1:30:00 PM	22.859	22.873			N/A
6/27/2019	CHFCZK	3:30:00 PM	22.846	22.859			N/A
6/27/2019	CHFDKK	9:30:00 AM	6.703	6.706			N/A
6/27/2019	CHFDKK	11:30:00 AM	6.704	6.706			N/A
6/27/2019	CHFDKK	1:30:00 PM	6.714	6.717			N/A
6/27/2019	CHFDKK	3:30:00 PM	6.71	6.712			N/A
6/27/2019	CHFDKK.fx	9:30:00 AM	6.7014	6.7074			N/A
6/27/2019	CHFDKK.fx	11:30:00 AM	6.702	6.7077			N/A
6/27/2019	CHFDKK.fx	1:30:00 PM	6.7122	6.7177			N/A
6/27/2019	CHFDKK.fx	3:30:00 PM	6.7077	6.7132			N/A
6/27/2019	CHFHKD	9:30:00 AM	7.9664	7.9679			N/A
6/27/2019	CHFHKD	11:30:00 AM	7.978	7.9817			N/A
6/27/2019	CHFHKD	1:30:00 PM	7.9916	7.9934			N/A
6/27/2019	CHFHKD	3:30:00 PM	7.987	7.9891			N/A
6/27/2019	CHFHUF	9:30:00 AM	290.32	290.71			N/A
6/27/2019	CHFHUF	11:30:00 AM	290.23	290.61			N/A
6/27/2019	CHFHUF	1:30:00 PM	290.84	291.2			N/A
6/27/2019	CHFHUF	3:30:00 PM	290.73	290.99			N/A
6/27/2019	CHFJPY	9:30:00 AM	110.213	110.272			N/A
6/27/2019	CHFJPY	11:30:00 AM	110.259	110.315			N/A
6/27/2019	CHFJPY	1:30:00 PM	110.312	110.366			N/A
6/27/2019	CHFJPY	3:30:00 PM	110.295	110.336			N/A
6/27/2019	CHFJPY.fx	9:30:00 AM	110.244	110.236			N/A
6/27/2019	CHFJPY.fx	11:30:00 AM	110.292	110.281			N/A
6/27/2019	CHFJPY.fx	1:30:00 PM	110.346	110.331			N/A
6/27/2019	CHFJPY.fx	3:30:00 PM	110.326	110.304			N/A
6/27/2019	CHFMXN	9:30:00 AM	19.5084	19.5227			N/A
6/27/2019	CHFMXN	11:30:00 AM	19.5189	19.5338			N/A
6/27/2019	CHFMXN	1:30:00 PM	19.5421	19.5544			N/A
6/27/2019	CHFMXN	3:30:00 PM	19.5184	19.5295			N/A
6/27/2019	CHFNOK	9:30:00 AM	8.6714	8.6781			N/A
6/27/2019	CHFNOK	11:30:00 AM	8.6871	8.6931			N/A

6/27/2019	CHFNOK	1:30:00 PM	8.7107	8.7164			N/A
6/27/2019	CHFNOK	3:30:00 PM	8.7028	8.7087			N/A
6/27/2019	CHFNOK.fx	9:30:00 AM	8.6748	8.67455			N/A
6/27/2019	CHFNOK.fx	11:30:00 AM	8.69048	8.68973			N/A
6/27/2019	CHFNOK.fx	1:30:00 PM	8.71406	8.7129			N/A
6/27/2019	CHFNOK.fx	3:30:00 PM	8.70489	8.70563			N/A
6/27/2019	CHFPLN	9:30:00 AM	3.8246	3.8275			N/A
6/27/2019	CHFPLN	11:30:00 AM	3.8224	3.825			N/A
6/27/2019	CHFPLN	1:30:00 PM	3.8273	3.83			N/A
6/27/2019	CHFPLN	3:30:00 PM	3.8214	3.823			N/A
6/27/2019	CHFPLN.fx	9:30:00 AM	3.82214	3.82985			N/A
6/27/2019	CHFPLN.fx	11:30:00 AM	3.81994	3.82735			N/A
6/27/2019	CHFPLN.fx	1:30:00 PM	3.82485	3.83237			N/A
6/27/2019	CHFPLN.fx	3:30:00 PM	3.81811	3.82583			N/A
6/27/2019	CHFSEK	9:30:00 AM	9.4569	9.46			N/A
6/27/2019	CHFSEK	11:30:00 AM	9.4694	9.4736			N/A
6/27/2019	CHFSEK	1:30:00 PM	9.487	9.4894			N/A
6/27/2019	CHFSEK	3:30:00 PM	9.486	9.4879			N/A
6/27/2019	CHFSGD	9:30:00 AM	1.3821	1.3823			N/A
6/27/2019	CHFSGD	11:30:00 AM	1.3834	1.3837			N/A
6/27/2019	CHFSGD	1:30:00 PM	1.3855	1.3858			N/A
6/27/2019	CHFSGD	3:30:00 PM	1.3841	1.384			N/A
6/27/2019	CHFSGD.fx	9:30:00 AM	1.38223	1.38207			N/A
6/27/2019	CHFSGD.fx	11:30:00 AM	1.38362	1.38355			N/A
6/27/2019	CHFSGD.fx	1:30:00 PM	1.38573	1.38554			N/A
6/27/2019	CHFSGD.fx	3:30:00 PM	1.38405	1.38378			N/A
6/27/2019	CHFZAR	9:30:00 AM	14.5354	14.5459			N/A
6/27/2019	CHFZAR	11:30:00 AM	14.4788	14.4917			N/A
6/27/2019	CHFZAR	1:30:00 PM	14.4748	14.4865			N/A
6/27/2019	CHFZAR	3:30:00 PM	14.4465	14.4509			N/A
6/27/2019	CZKJPY	9:30:00 AM	4.831	4.834			N/A
6/27/2019	CZKJPY	11:30:00 AM					N/A
6/27/2019	CZKJPY	1:30:00 PM	4.826	4.828			N/A
6/27/2019	CZKJPY	3:30:00 PM	4.827	4.831			N/A

6/27/2019	DAX30.i	9:30:00 AM	12302.72	12296.97			N/A
6/27/2019	DAX30.i	11:30:00 AM	12324.37	12323.72			N/A
6/27/2019	DAX30.i	1:30:00 PM	12236.97	12233.47			N/A
6/27/2019	DAX30.i	3:30:00 PM	12266.72	12264.47			N/A
6/27/2019	DJ30.i	9:30:00 AM					N/A
6/27/2019	DJ30.i	11:30:00 AM					N/A
6/27/2019	DJ30.i	1:30:00 PM					N/A
6/27/2019	DJ30.i	3:30:00 PM					N/A
6/27/2019	DKKJPY	9:30:00 AM					N/A
6/27/2019	DKKJPY	11:30:00 AM					N/A
6/27/2019	DKKJPY	1:30:00 PM					N/A
6/27/2019	DKKJPY	3:30:00 PM	16.45	16.46			N/A
6/27/2019	EURAUD	9:30:00 AM	1.62386	1.62423			N/A
6/27/2019	EURAUD	11:30:00 AM	1.62462	1.62497			N/A
6/27/2019	EURAUD	1:30:00 PM	1.62529	1.62553			N/A
6/27/2019	EURAUD	3:30:00 PM	1.62422	1.62441			N/A
6/27/2019	EURAUD.fx	9:30:00 AM	1.62407	1.62402			N/A
6/27/2019	EURAUD.fx	11:30:00 AM	1.62486	1.62475			N/A
6/27/2019	EURAUD.fx	1:30:00 PM	1.62549	1.62531			N/A
6/27/2019	EURAUD.fx	3:30:00 PM	1.62438	1.62419			N/A
6/27/2019	EURCAD	9:30:00 AM	1.49077	1.49119			N/A
6/27/2019	EURCAD	11:30:00 AM	1.49193	1.49274			N/A
6/27/2019	EURCAD	1:30:00 PM	1.49252	1.49326			N/A
6/27/2019	EURCAD	3:30:00 PM	1.49177	1.49226			N/A
6/27/2019	EURCAD.fx	9:30:00 AM	1.49119	1.49076			N/A
6/27/2019	EURCAD.fx	11:30:00 AM	1.49235	1.49231			N/A
6/27/2019	EURCAD.fx	1:30:00 PM	1.49294	1.49284			N/A
6/27/2019	EURCAD.fx	3:30:00 PM	1.49216	1.49186			N/A
6/27/2019	EURCHF	9:30:00 AM	1.11341	1.11347			N/A
6/27/2019	EURCHF	11:30:00 AM	1.11328	1.1133			N/A
6/27/2019	EURCHF	1:30:00 PM	1.11149	1.11149			N/A
6/27/2019	EURCHF	3:30:00 PM	1.11228	1.11219			N/A
6/27/2019	EURCHF.fx	9:30:00 AM	1.11347	1.11341			N/A
6/27/2019	EURCHF.fx	11:30:00 AM	1.11333	1.11324			N/A

6/27/2019	EURCHF.fx	1:30:00 PM	1.11154	1.11144			N/A
6/27/2019	EURCHF.fx	3:30:00 PM	1.11232	1.11215			N/A
6/27/2019	EURCZK	9:30:00 AM					N/A
6/27/2019	EURCZK	11:30:00 AM	25.396	25.435			N/A
6/27/2019	EURCZK	1:30:00 PM	25.393	25.429			N/A
6/27/2019	EURCZK	3:30:00 PM	25.394	25.433			N/A
6/27/2019	EURDKK	9:30:00 AM					N/A
6/27/2019	EURDKK	11:30:00 AM	7.4628	7.4641			N/A
6/27/2019	EURDKK	1:30:00 PM	7.4621	7.4633			N/A
6/27/2019	EURDKK	3:30:00 PM	7.4621	7.4634			N/A
6/27/2019	EURGBP	9:30:00 AM	0.89559	0.89559			N/A
6/27/2019	EURGBP	11:30:00 AM	0.89586	0.89594			N/A
6/27/2019	EURGBP	1:30:00 PM	0.89448	0.89432			N/A
6/27/2019	EURGBP	3:30:00 PM	0.89482	0.89483			N/A
6/27/2019	EURGBP.fx	9:30:00 AM	0.89562	0.89553			N/A
6/27/2019	EURGBP.fx	11:30:00 AM	0.89589	0.8959			N/A
6/27/2019	EURGBP.fx	1:30:00 PM	0.89452	0.89426			N/A
6/27/2019	EURGBP.fx	3:30:00 PM	0.89481	0.89479			N/A
6/27/2019	EURHKD	9:30:00 AM	8.8709	8.8734			N/A
6/27/2019	EURHKD	11:30:00 AM	8.8827	8.8866			N/A
6/27/2019	EURHKD	1:30:00 PM	8.8826	8.887			N/A
6/27/2019	EURHKD	3:30:00 PM	8.8836	8.8874			N/A
6/27/2019	EURHKD.fx	9:30:00 AM	8.87366	8.87071			N/A
6/27/2019	EURHKD.fx	11:30:00 AM	8.88538	8.88382			N/A
6/27/2019	EURHKD.fx	1:30:00 PM	8.8853	8.88431			N/A
6/27/2019	EURHKD.fx	3:30:00 PM	8.88622	8.88487			N/A
6/27/2019	EURHUF	9:30:00 AM	323.26	323.8			N/A
6/27/2019	EURHUF	11:30:00 AM	323.07	323.79			N/A
6/27/2019	EURHUF	1:30:00 PM	323.18	323.79			N/A
6/27/2019	EURHUF	3:30:00 PM	323.37	324.08			N/A
6/27/2019	EURHUF.fx	9:30:00 AM	323.521	323.738			N/A
6/27/2019	EURHUF.fx	11:30:00 AM	323.353	323.508			N/A
6/27/2019	EURHUF.fx	1:30:00 PM	323.467	323.65			N/A
6/27/2019	EURHUF.fx	3:30:00 PM	323.634	323.801			N/A

6/27/2019	EURJPY	9:30:00 AM	122.743	122.749			N/A
6/27/2019	EURJPY	11:30:00 AM	122.783	122.769			N/A
6/27/2019	EURJPY	1:30:00 PM	122.642	122.643			N/A
6/27/2019	EURJPY	3:30:00 PM	122.719	122.673			N/A
6/27/2019	EURJPY.fx	9:30:00 AM	122.745	122.745			N/A
6/27/2019	EURJPY.fx	11:30:00 AM	122.785	122.765			N/A
6/27/2019	EURJPY.fx	1:30:00 PM	122.644	122.639			N/A
6/27/2019	EURJPY.fx	3:30:00 PM	122.72	122.674			N/A
6/27/2019	EURMXN	9:30:00 AM	21.7236	21.7392			N/A
6/27/2019	EURMXN	11:30:00 AM	21.7311	21.7489			N/A
6/27/2019	EURMXN	1:30:00 PM	21.7209	21.7391			N/A
6/27/2019	EURMXN	3:30:00 PM	21.7097	21.7261			N/A
6/27/2019	EURMXN.fx	9:30:00 AM	21.7317	21.7307			N/A
6/27/2019	EURMXN.fx	11:30:00 AM	21.7393	21.7408			N/A
6/27/2019	EURMXN.fx	1:30:00 PM	21.7295	21.7302			N/A
6/27/2019	EURMXN.fx	3:30:00 PM	21.7184	21.717			N/A
6/27/2019	EURNOK	9:30:00 AM	9.6533	9.6641			N/A
6/27/2019	EURNOK	11:30:00 AM	9.6692	9.6796			N/A
6/27/2019	EURNOK	1:30:00 PM	9.6797	9.6908			N/A
6/27/2019	EURNOK	3:30:00 PM	9.6787	9.6898			N/A
6/27/2019	EURNOK.fx	9:30:00 AM	9.65864	9.6587			N/A
6/27/2019	EURNOK.fx	11:30:00 AM	9.67459	9.6742			N/A
6/27/2019	EURNOK.fx	1:30:00 PM	9.68514	9.68544			N/A
6/27/2019	EURNOK.fx	3:30:00 PM	9.68418	9.6839			N/A
6/27/2019	EURNZD	9:30:00 AM	1.70095	1.70165			N/A
6/27/2019	EURNZD	11:30:00 AM	1.70001	1.70063			N/A
6/27/2019	EURNZD	1:30:00 PM	1.69919	1.69975			N/A
6/27/2019	EURNZD	3:30:00 PM	1.6987	1.69912			N/A
6/27/2019	EURNZD.fx	9:30:00 AM	1.70136	1.70124			N/A
6/27/2019	EURNZD.fx	11:30:00 AM	1.70042	1.7002			N/A
6/27/2019	EURNZD.fx	1:30:00 PM	1.69964	1.6993			N/A
6/27/2019	EURNZD.fx	3:30:00 PM	1.69888	1.69869			N/A
6/27/2019	EURPLN	9:30:00 AM	4.2583	4.2615			N/A
6/27/2019	EURPLN	11:30:00 AM	4.2552	4.2583			N/A

6/27/2019	EURPLN	1:30:00 PM	4.254	4.2572			N/A
6/27/2019	EURPLN	3:30:00 PM	4.2505	4.2526			N/A
6/27/2019	EURPLN.fx	9:30:00 AM	4.25757	4.26232			N/A
6/27/2019	EURPLN.fx	11:30:00 AM	4.25457	4.25882			N/A
6/27/2019	EURPLN.fx	1:30:00 PM	4.25337	4.25772			N/A
6/27/2019	EURPLN.fx	3:30:00 PM	4.2491	4.25318			N/A
6/27/2019	EURRUB	9:30:00 AM					N/A
6/27/2019	EURRUB	11:30:00 AM	71.23	71.656			N/A
6/27/2019	EURRUB	1:30:00 PM	71.326	71.754			N/A
6/27/2019	EURRUB	3:30:00 PM	71.306	71.736			N/A
6/27/2019	EURSEK	9:30:00 AM	10.5315	10.5344			N/A
6/27/2019	EURSEK	11:30:00 AM	10.5431	10.548			N/A
6/27/2019	EURSEK	1:30:00 PM	10.5455	10.5495			N/A
6/27/2019	EURSEK	3:30:00 PM	10.5517	10.5558			N/A
6/27/2019	EURSEK.fx	9:30:00 AM	10.53322	10.53264			N/A
6/27/2019	EURSEK.fx	11:30:00 AM	10.54472	10.54632			N/A
6/27/2019	EURSEK.fx	1:30:00 PM	10.54703	10.5479			N/A
6/27/2019	EURSEK.fx	3:30:00 PM	10.55287	10.55415			N/A
6/27/2019	EURSGD	9:30:00 AM	1.5387	1.5393			N/A
6/27/2019	EURSGD	11:30:00 AM	1.5399	1.5407			N/A
6/27/2019	EURSGD	1:30:00 PM	1.5398	1.5406			N/A
6/27/2019	EURSGD	3:30:00 PM	1.5391	1.5396			N/A
6/27/2019	EURSGD.fx	9:30:00 AM	1.53903	1.53887			N/A
6/27/2019	EURSGD.fx	11:30:00 AM	1.54035	1.54029			N/A
6/27/2019	EURSGD.fx	1:30:00 PM	1.54016	1.5401			N/A
6/27/2019	EURSGD.fx	3:30:00 PM	1.53937	1.53922			N/A
6/27/2019	EURUSD	9:30:00 AM	1.13548	1.13523			N/A
6/27/2019	EURUSD	11:30:00 AM	1.13683	1.13678			N/A
6/27/2019	EURUSD	1:30:00 PM	1.13684	1.13689			N/A
6/27/2019	EURUSD	3:30:00 PM	1.13702	1.13693			N/A
6/27/2019	EURUSD.fx	9:30:00 AM	1.13568	1.13532			N/A
6/27/2019	EURUSD.fx	11:30:00 AM	1.13703	1.13687			N/A
6/27/2019	EURUSD.fx	1:30:00 PM	1.13705	1.13698			N/A
6/27/2019	EURUSD.fx	3:30:00 PM	1.13721	1.13703			N/A

6/27/2019	EURZAR	9:30:00 AM	16.186	16.2			N/A
6/27/2019	EURZAR	11:30:00 AM	16.1221	16.1391			N/A
6/27/2019	EURZAR	1:30:00 PM	16.0891	16.1089			N/A
6/27/2019	EURZAR	3:30:00 PM	16.0734	16.0859			N/A
6/27/2019	EURZAR.fx	9:30:00 AM	16.18498	16.20132			N/A
6/27/2019	EURZAR.fx	11:30:00 AM	16.12131	16.13996			N/A
6/27/2019	EURZAR.fx	1:30:00 PM	16.08832	16.1095			N/A
6/27/2019	EURZAR.fx	3:30:00 PM	16.07287	16.08663			N/A
6/27/2019	GBPAUD	9:30:00 AM	1.81366	1.81439			N/A
6/27/2019	GBPAUD	11:30:00 AM	1.81398	1.81464			N/A
6/27/2019	GBPAUD	1:30:00 PM	1.81771	1.81815			N/A
6/27/2019	GBPAUD	3:30:00 PM	1.81577	1.81628			N/A
6/27/2019	GBPAUD.fx	9:30:00 AM	1.81406	1.81399			N/A
6/27/2019	GBPAUD.fx	11:30:00 AM	1.81438	1.81424			N/A
6/27/2019	GBPAUD.fx	1:30:00 PM	1.81811	1.81776			N/A
6/27/2019	GBPAUD.fx	3:30:00 PM	1.81601	1.81587			N/A
6/27/2019	GBPCAD	9:30:00 AM	1.66455	1.66495			N/A
6/27/2019	GBPCAD	11:30:00 AM	1.66532	1.66609			N/A
6/27/2019	GBPCAD	1:30:00 PM	1.66888	1.66923			N/A
6/27/2019	GBPCAD	3:30:00 PM	1.66722	1.66768			N/A
6/27/2019	GBPCAD.fx	9:30:00 AM	1.66494	1.66456			N/A
6/27/2019	GBPCAD.fx	11:30:00 AM	1.66573	1.66571			N/A
6/27/2019	GBPCAD.fx	1:30:00 PM	1.66926	1.66884			N/A
6/27/2019	GBPCAD.fx	3:30:00 PM	1.66749	1.6673			N/A
6/27/2019	GBPCHF	9:30:00 AM	1.24308	1.24343			N/A
6/27/2019	GBPCHF	11:30:00 AM	1.24247	1.24282			N/A
6/27/2019	GBPCHF	1:30:00 PM	1.24264	1.24269			N/A
6/27/2019	GBPCHF	3:30:00 PM	1.24288	1.24312			N/A
6/27/2019	GBPCHF.fx	9:30:00 AM	1.24326	1.24321			N/A
6/27/2019	GBPCHF.fx	11:30:00 AM	1.24266	1.24262			N/A
6/27/2019	GBPCHF.fx	1:30:00 PM	1.24286	1.24249			N/A
6/27/2019	GBPCHF.fx	3:30:00 PM	1.24307	1.24305			N/A
6/27/2019	GBPCZK	9:30:00 AM	28.354	28.374			N/A
6/27/2019	GBPCZK	11:30:00 AM	28.358	28.379			N/A

6/27/2019	GBPCZK	1:30:00 PM	28.403	28.415			N/A
6/27/2019	GBPCZK	3:30:00 PM	28.391	28.409			N/A
6/27/2019	GBPDKK	9:30:00 AM	8.33	8.341			N/A
6/27/2019	GBPDKK	11:30:00 AM	8.327	8.338			N/A
6/27/2019	GBPDKK	1:30:00 PM	8.341	8.35			N/A
6/27/2019	GBPDKK	3:30:00 PM	8.337	8.347			N/A
6/27/2019	GBPDKK.fx	9:30:00 AM	8.329	8.3414			N/A
6/27/2019	GBPDKK.fx	11:30:00 AM	8.3255	8.3384			N/A
6/27/2019	GBPDKK.fx	1:30:00 PM	8.3398	8.3502			N/A
6/27/2019	GBPDKK.fx	3:30:00 PM	8.3356	8.3478			N/A
6/27/2019	GBPHKD	9:30:00 AM	9.9018	9.9048			N/A
6/27/2019	GBPHKD	11:30:00 AM	9.9111	9.917			N/A
6/27/2019	GBPHKD	1:30:00 PM	9.9295	9.9315			N/A
6/27/2019	GBPHKD	3:30:00 PM	9.9243	9.9285			N/A
6/27/2019	GBPHUF	9:30:00 AM	360.89	361.33			N/A
6/27/2019	GBPHUF	11:30:00 AM	360.59	361.05			N/A
6/27/2019	GBPHUF	1:30:00 PM	361.39	361.77			N/A
6/27/2019	GBPHUF	3:30:00 PM	361.33	361.62			N/A
6/27/2019	GBPJPY	9:30:00 AM	137.042	137.076			N/A
6/27/2019	GBPJPY	11:30:00 AM	137.03	137.06			N/A
6/27/2019	GBPJPY	1:30:00 PM	137.125	137.124			N/A
6/27/2019	GBPJPY	3:30:00 PM	137.116	137.116			N/A
6/27/2019	GBPJPY.fx	9:30:00 AM	137.06	137.056			N/A
6/27/2019	GBPJPY.fx	11:30:00 AM	137.048	137.04			N/A
6/27/2019	GBPJPY.fx	1:30:00 PM	137.143	137.105			N/A
6/27/2019	GBPJPY.fx	3:30:00 PM	137.134	137.111			N/A
6/27/2019	GBPMXN	9:30:00 AM	24.2507	24.264			N/A
6/27/2019	GBPMXN	11:30:00 AM	24.2514	24.2666			N/A
6/27/2019	GBPMXN	1:30:00 PM	24.2848	24.2923			N/A
6/27/2019	GBPMXN	3:30:00 PM	24.2572	24.2686			N/A
6/27/2019	GBPNOK	9:30:00 AM	10.7789	10.7899			N/A
6/27/2019	GBPNOK	11:30:00 AM	10.7937	10.8035			N/A
6/27/2019	GBPNOK	1:30:00 PM	10.824	10.8319			N/A
6/27/2019	GBPNOK	3:30:00 PM	10.8165	10.8272			N/A

6/27/2019	GBPNOK.fx	9:30:00 AM	10.78368	10.78534			N/A
6/27/2019	GBPNOK.fx	11:30:00 AM	10.79865	10.79856			N/A
6/27/2019	GBPNOK.fx	1:30:00 PM	10.82908	10.82689			N/A
6/27/2019	GBPNOK.fx	3:30:00 PM	10.82098	10.82252			N/A
6/27/2019	GBPNZD	9:30:00 AM	1.89929	1.90005			N/A
6/27/2019	GBPNZD	11:30:00 AM	1.89761	1.89825			N/A
6/27/2019	GBPNZD	1:30:00 PM	1.89986	1.9003			N/A
6/27/2019	GBPNZD	3:30:00 PM	1.89859	1.89887			N/A
6/27/2019	GBPNZD.fx	9:30:00 AM	1.89964	1.89968			N/A
6/27/2019	GBPNZD.fx	11:30:00 AM	1.89797	1.89787			N/A
6/27/2019	GBPNZD.fx	1:30:00 PM	1.90025	1.89988			N/A
6/27/2019	GBPNZD.fx	3:30:00 PM	1.89851	1.89851			N/A
6/27/2019	GBPPLN	9:30:00 AM	4.7559	4.7573			N/A
6/27/2019	GBPPLN	11:30:00 AM	4.7506	4.7523			N/A
6/27/2019	GBPPLN	1:30:00 PM	4.7575	4.7583			N/A
6/27/2019	GBPPLN	3:30:00 PM	4.7505	4.7513			N/A
6/27/2019	GBPPLN.fx	9:30:00 AM	4.75364	4.7595			N/A
6/27/2019	GBPPLN.fx	11:30:00 AM	4.74854	4.75454			N/A
6/27/2019	GBPPLN.fx	1:30:00 PM	4.75548	4.76054			N/A
6/27/2019	GBPPLN.fx	3:30:00 PM	4.74796	4.75361			N/A
6/27/2019	GBPSEK	9:30:00 AM	11.7565	11.7653			N/A
6/27/2019	GBPSEK	11:30:00 AM	11.7664	11.7756			N/A
6/27/2019	GBPSEK	1:30:00 PM	11.7903	11.7954			N/A
6/27/2019	GBPSEK	3:30:00 PM	11.7899	11.7985			N/A
6/27/2019	GBPSEK.fx	9:30:00 AM	11.75303	11.7692			N/A
6/27/2019	GBPSEK.fx	11:30:00 AM	11.76276	11.7792			N/A
6/27/2019	GBPSEK.fx	1:30:00 PM	11.78679	11.79891			N/A
6/27/2019	GBPSEK.fx	3:30:00 PM	11.78647	11.80227			N/A
6/27/2019	GBPSGD	9:30:00 AM	1.7181	1.7187			N/A
6/27/2019	GBPSGD	11:30:00 AM	1.719	1.7197			N/A
6/27/2019	GBPSGD	1:30:00 PM	1.722	1.7222			N/A
6/27/2019	GBPSGD	3:30:00 PM	1.7201	1.7205			N/A
6/27/2019	GBPSGD.fx	9:30:00 AM	1.71623	1.72054			N/A
6/27/2019	GBPSGD.fx	11:30:00 AM	1.71712	1.72156			N/A

6/27/2019	GBPSGD.fx	1:30:00 PM	1.72012	1.72391			N/A
6/27/2019	GBPSGD.fx	3:30:00 PM	1.71823	1.72227			N/A
6/27/2019	GBPUSD	9:30:00 AM	1.26801	1.26778			N/A
6/27/2019	GBPUSD	11:30:00 AM	1.26908	1.26907			N/A
6/27/2019	GBPUSD	1:30:00 PM	1.27143	1.27105			N/A
6/27/2019	GBPUSD	3:30:00 PM	1.27094	1.27066			N/A
6/27/2019	GBPUSD.fx	9:30:00 AM	1.26807	1.26772			N/A
6/27/2019	GBPUSD.fx	11:30:00 AM	1.26914	1.26902			N/A
6/27/2019	GBPUSD.fx	1:30:00 PM	1.27149	1.27099			N/A
6/27/2019	GBPUSD.fx	3:30:00 PM	1.27098	1.27061			N/A
6/27/2019	GBPZAR	9:30:00 AM	18.0697	18.0921			N/A
6/27/2019	GBPZAR	11:30:00 AM	17.9909	18.0179			N/A
6/27/2019	GBPZAR	1:30:00 PM	17.9891	18.012			N/A
6/27/2019	GBPZAR	3:30:00 PM	17.9618	17.9799			N/A
6/27/2019	GBPZAR.fx	9:30:00 AM	18.0763	18.0849			N/A
6/27/2019	GBPZAR.fx	11:30:00 AM	17.9981	18.0107			N/A
6/27/2019	GBPZAR.fx	1:30:00 PM	17.9959	18.0052			N/A
6/27/2019	GBPZAR.fx	3:30:00 PM	17.9653	17.9731			N/A
6/27/2019	GOLD	9:30:00 AM	1404.82	1404.28			N/A
6/27/2019	GOLD	11:30:00 AM	1403.57	1403.72			N/A
6/27/2019	GOLD	1:30:00 PM	1404.69	1404.99			N/A
6/27/2019	GOLD	3:30:00 PM	1406.21	1405.3			N/A
6/27/2019	HKDJPY	9:30:00 AM	13.84	13.84			N/A
6/27/2019	HKDJPY	11:30:00 AM	13.82	13.83			N/A
6/27/2019	HKDJPY	1:30:00 PM	13.8	13.81			N/A
6/27/2019	HKDJPY	3:30:00 PM	13.81	13.81			N/A
6/27/2019	HKDJPY.fx	9:30:00 AM	13.833	13.837			N/A
6/27/2019	HKDJPY.fx	11:30:00 AM	13.814	13.821			N/A
6/27/2019	HKDJPY.fx	1:30:00 PM	13.799	13.806			N/A
6/27/2019	HKDJPY.fx	3:30:00 PM	13.808	13.808			N/A
6/27/2019	HUFJPY	9:30:00 AM	0.3796	0.3799			N/A
6/27/2019	HUFJPY	11:30:00 AM	0.3799	0.3802			N/A
6/27/2019	HUFJPY	1:30:00 PM	0.3792	0.3795			N/A
6/27/2019	HUFJPY	3:30:00 PM	0.3793	0.3796			N/A

6/27/2019	JP225.i	9:30:00 AM	21297.58	21312.58			N/A
6/27/2019	JP225.i	11:30:00 AM	21292.58	21307.58			N/A
6/27/2019	JP225.i	1:30:00 PM	21202.58	21212.93			N/A
6/27/2019	JP225.i	3:30:00 PM	21212.58	21223.41			N/A
6/27/2019	MXNJPY	9:30:00 AM	5.65	5.66			N/A
6/27/2019	MXNJPY	11:30:00 AM	5.65	5.66			N/A
6/27/2019	MXNJPY	1:30:00 PM	5.63	5.65			N/A
6/27/2019	MXNJPY	3:30:00 PM	5.65	5.66			N/A
6/27/2019	NASDAQ.i	9:30:00 AM					N/A
6/27/2019	NASDAQ.i	11:30:00 AM					N/A
6/27/2019	NASDAQ.i	1:30:00 PM					N/A
6/27/2019	NASDAQ.i	3:30:00 PM					N/A
6/27/2019	NOKJPY	9:30:00 AM	12.7	12.73			N/A
6/27/2019	NOKJPY	11:30:00 AM	12.69	12.71			N/A
6/27/2019	NOKJPY	1:30:00 PM	12.66	12.68			N/A
6/27/2019	NOKJPY	3:30:00 PM	12.66	12.69			N/A
6/27/2019	NOKJPY.fx	9:30:00 AM	12.706	12.712			N/A
6/27/2019	NOKJPY.fx	11:30:00 AM	12.688	12.693			N/A
6/27/2019	NOKJPY.fx	1:30:00 PM	12.66	12.666			N/A
6/27/2019	NOKJPY.fx	3:30:00 PM	12.669	12.676			N/A
6/27/2019	NZDCAD	9:30:00 AM	0.87606	0.87659			N/A
6/27/2019	NZDCAD	11:30:00 AM	0.87728	0.87796			N/A
6/27/2019	NZDCAD	1:30:00 PM	0.87806	0.8787			N/A
6/27/2019	NZDCAD	3:30:00 PM	0.87793	0.87846			N/A
6/27/2019	NZDCAD.fx	9:30:00 AM	0.87639	0.87625			N/A
6/27/2019	NZDCAD.fx	11:30:00 AM	0.87762	0.87763			N/A
6/27/2019	NZDCAD.fx	1:30:00 PM	0.87839	0.87835			N/A
6/27/2019	NZDCAD.fx	3:30:00 PM	0.87822	0.8782			N/A
6/27/2019	NZDCHF	9:30:00 AM	0.65414	0.65481			N/A
6/27/2019	NZDCHF	11:30:00 AM	0.6544	0.65505			N/A
6/27/2019	NZDCHF	1:30:00 PM	0.65373	0.6543			N/A
6/27/2019	NZDCHF	3:30:00 PM	0.65442	0.6548			N/A
6/27/2019	NZDCHF.fx	9:30:00 AM	0.65447	0.65446			N/A
6/27/2019	NZDCHF.fx	11:30:00 AM	0.65474	0.6547			N/A

6/27/2019	NZDCHF.fx	1:30:00 PM	0.65407	0.65394			N/A
6/27/2019	NZDCHF.fx	3:30:00 PM	0.65475	0.65469			N/A
6/27/2019	NZDCZK	9:30:00 AM	14.925	14.936			N/A
6/27/2019	NZDCZK	11:30:00 AM	14.941	14.951			N/A
6/27/2019	NZDCZK	1:30:00 PM	14.947	14.955			N/A
6/27/2019	NZDCZK	3:30:00 PM	14.954	14.962			N/A
6/27/2019	NZDDKK	9:30:00 AM	4.385	4.389			N/A
6/27/2019	NZDDKK	11:30:00 AM	4.388	4.392			N/A
6/27/2019	NZDDKK	1:30:00 PM	4.39	4.393			N/A
6/27/2019	NZDDKK	3:30:00 PM	4.391	4.395			N/A
6/27/2019	NZDHKD	9:30:00 AM	5.2118	5.214			N/A
6/27/2019	NZDHKD	11:30:00 AM	5.2215	5.2241			N/A
6/27/2019	NZDHKD	1:30:00 PM	5.2243	5.227			N/A
6/27/2019	NZDHKD	3:30:00 PM	5.2265	5.2291			N/A
6/27/2019	NZDHUF	9:30:00 AM	189.94	190.22			N/A
6/27/2019	NZDHUF	11:30:00 AM	189.97	190.24			N/A
6/27/2019	NZDHUF	1:30:00 PM	190.14	190.42			N/A
6/27/2019	NZDHUF	3:30:00 PM	190.28	190.48			N/A
6/27/2019	NZDJPY	9:30:00 AM	72.116	72.179			N/A
6/27/2019	NZDJPY	11:30:00 AM	72.172	72.243			N/A
6/27/2019	NZDJPY	1:30:00 PM	72.134	72.196			N/A
6/27/2019	NZDJPY	3:30:00 PM	72.2	72.24			N/A
6/27/2019	NZDJPY.fx	9:30:00 AM	72.147	72.146			N/A
6/27/2019	NZDJPY.fx	11:30:00 AM	72.203	72.21			N/A
6/27/2019	NZDJPY.fx	1:30:00 PM	72.165	72.163			N/A
6/27/2019	NZDJPY.fx	3:30:00 PM	72.232	72.214			N/A
6/27/2019	NZDMXN	9:30:00 AM	12.7654	12.7712			N/A
6/27/2019	NZDMXN	11:30:00 AM	12.777	12.7837			N/A
6/27/2019	NZDMXN	1:30:00 PM	12.7783	12.7842			N/A
6/27/2019	NZDMXN	3:30:00 PM	12.7764	12.7791			N/A
6/27/2019	NZDNOK	9:30:00 AM	5.6735	5.6766			N/A
6/27/2019	NZDNOK	11:30:00 AM	5.6862	5.6886			N/A
6/27/2019	NZDNOK	1:30:00 PM	5.695	5.698			N/A
6/27/2019	NZDNOK	3:30:00 PM	5.6959	5.6967			N/A

6/27/2019	NZDPLN	9:30:00 AM	2.5023	2.5037			N/A
6/27/2019	NZDPLN	11:30:00 AM	2.502	2.5034			N/A
6/27/2019	NZDPLN	1:30:00 PM	2.5026	2.5036			N/A
6/27/2019	NZDPLN	3:30:00 PM	2.5008	2.5013			N/A
6/27/2019	NZDSEK	9:30:00 AM	6.1849	6.1918			N/A
6/27/2019	NZDSEK	11:30:00 AM	6.1961	6.2022			N/A
6/27/2019	NZDSEK	1:30:00 PM	6.2005	6.2065			N/A
6/27/2019	NZDSEK	3:30:00 PM	6.2057	6.2106			N/A
6/27/2019	NZDSGD	9:30:00 AM	0.9043	0.9049			N/A
6/27/2019	NZDSGD	11:30:00 AM	0.9056	0.9063			N/A
6/27/2019	NZDSGD	1:30:00 PM	0.906	0.9066			N/A
6/27/2019	NZDSGD	3:30:00 PM	0.9059	0.9063			N/A
6/27/2019	NZDSGD.fx	9:30:00 AM	0.90429	0.90486			N/A
6/27/2019	NZDSGD.fx	11:30:00 AM	0.90558	0.90619			N/A
6/27/2019	NZDSGD.fx	1:30:00 PM	0.90601	0.90651			N/A
6/27/2019	NZDSGD.fx	3:30:00 PM	0.90587	0.90628			N/A
6/27/2019	NZDUSD	9:30:00 AM	0.6674	0.66739			N/A
6/27/2019	NZDUSD	11:30:00 AM	0.66856	0.66866			N/A
6/27/2019	NZDUSD	1:30:00 PM	0.66898	0.66905			N/A
6/27/2019	NZDUSD	3:30:00 PM	0.6693	0.66921			N/A
6/27/2019	NZDUSD.fx	9:30:00 AM	0.66747	0.6674			N/A
6/27/2019	NZDUSD.fx	11:30:00 AM	0.66862	0.66868			N/A
6/27/2019	NZDUSD.fx	1:30:00 PM	0.66905	0.66906			N/A
6/27/2019	NZDUSD.fx	3:30:00 PM	0.66938	0.66929			N/A
6/27/2019	NZDZAR	9:30:00 AM	9.5058	9.5204			N/A
6/27/2019	NZDZAR	11:30:00 AM	9.4736	9.4888			N/A
6/27/2019	NZDZAR	1:30:00 PM	9.4589	9.4766			N/A
6/27/2019	NZDZAR	3:30:00 PM	9.4508	9.4626			N/A
6/27/2019	SEKJPY	9:30:00 AM	11.65	11.66			N/A
6/27/2019	SEKJPY	11:30:00 AM	11.65	11.65			N/A
6/27/2019	SEKJPY	1:30:00 PM	11.63	11.64			N/A
6/27/2019	SEKJPY	3:30:00 PM	11.62	11.63			N/A
6/27/2019	SEKJPY.fx	9:30:00 AM	11.645	11.662			N/A
6/27/2019	SEKJPY.fx	11:30:00 AM	11.633	11.651			N/A

6/27/2019	SEKJPY.fx	1:30:00 PM	11.618	11.636			N/A
6/27/2019	SEKJPY.fx	3:30:00 PM	11.619	11.635			N/A
6/27/2019	SGDJPY	9:30:00 AM	79.74	79.76			N/A
6/27/2019	SGDJPY	11:30:00 AM	79.69	79.7			N/A
6/27/2019	SGDJPY	1:30:00 PM	79.6	79.63			N/A
6/27/2019	SGDJPY	3:30:00 PM	79.7	79.68			N/A
6/27/2019	SILVER	9:30:00 AM	15.02	15.39			N/A
6/27/2019	SILVER	11:30:00 AM	15.05	15.43			N/A
6/27/2019	SILVER	1:30:00 PM	15.05	15.42			N/A
6/27/2019	SILVER	3:30:00 PM	15.07	15.44			N/A
6/27/2019	SPX500.i	9:30:00 AM	2927.11	2927.16			N/A
6/27/2019	SPX500.i	11:30:00 AM	2929.36	2930.16			N/A
6/27/2019	SPX500.i	1:30:00 PM	2919.61	2920.41			N/A
6/27/2019	SPX500.i	3:30:00 PM	2922.61	2923.16			N/A
6/27/2019	UK100.i	9:30:00 AM	7435.55	7435.97			N/A
6/27/2019	UK100.i	11:30:00 AM	7439.47	7439.97			N/A
6/27/2019	UK100.i	1:30:00 PM	7397.39	7395.97			N/A
6/27/2019	UK100.i	3:30:00 PM	7408.14	7408.97			N/A
6/27/2019	USDCAD	9:30:00 AM	1.31313	1.3132			N/A
6/27/2019	USDCAD	11:30:00 AM	1.31267	1.31273			N/A
6/27/2019	USDCAD	1:30:00 PM	1.3131	1.31311			N/A
6/27/2019	USDCAD	3:30:00 PM	1.31229	1.31204			N/A
6/27/2019	USDCAD.fx	9:30:00 AM	1.31316	1.31315			N/A
6/27/2019	USDCAD.fx	11:30:00 AM	1.3127	1.31268			N/A
6/27/2019	USDCAD.fx	1:30:00 PM	1.31313	1.31308			N/A
6/27/2019	USDCAD.fx	3:30:00 PM	1.3123	1.31201			N/A
6/27/2019	USDCHF	9:30:00 AM	0.98068	0.98049			N/A
6/27/2019	USDCHF	11:30:00 AM	0.97923	0.97922			N/A
6/27/2019	USDCHF	1:30:00 PM	0.97763	0.97752			N/A
6/27/2019	USDCHF	3:30:00 PM	0.97821	0.97796			N/A
6/27/2019	USDCHF.fx	9:30:00 AM	0.98073	0.98042			N/A
6/27/2019	USDCHF.fx	11:30:00 AM	0.97927	0.97917			N/A
6/27/2019	USDCHF.fx	1:30:00 PM	0.97768	0.97746			N/A
6/27/2019	USDCHF.fx	3:30:00 PM	0.97825	0.97792			N/A

6/27/2019	USDCZK	9:30:00 AM	22.383	22.4			N/A
6/27/2019	USDCZK	11:30:00 AM	22.363	22.382			N/A
6/27/2019	USDCZK	1:30:00 PM	22.358	22.379			N/A
6/27/2019	USDCZK	3:30:00 PM	22.359	22.379			N/A
6/27/2019	USDCZK.fx	9:30:00 AM	22.392	22.3916			N/A
6/27/2019	USDCZK.fx	11:30:00 AM	22.3711	22.373			N/A
6/27/2019	USDCZK.fx	1:30:00 PM	22.3671	22.37			N/A
6/27/2019	USDCZK.fx	3:30:00 PM	22.3681	22.3707			N/A
6/27/2019	USDDKK	9:30:00 AM	6.5739	6.5759			N/A
6/27/2019	USDDKK	11:30:00 AM	6.5647	6.5676			N/A
6/27/2019	USDDKK	1:30:00 PM	6.5634	6.5671			N/A
6/27/2019	USDDKK	3:30:00 PM	6.5633	6.5662			N/A
6/27/2019	USDDKK.fx	9:30:00 AM	6.57437	6.57382			N/A
6/27/2019	USDDKK.fx	11:30:00 AM	6.565	6.56558			N/A
6/27/2019	USDDKK.fx	1:30:00 PM	6.56381	6.56483			N/A
6/27/2019	USDDKK.fx	3:30:00 PM	6.56378	6.5642			N/A
6/27/2019	USDHKD	9:30:00 AM	7.8126	7.8128			N/A
6/27/2019	USDHKD	11:30:00 AM	7.814	7.814			N/A
6/27/2019	USDHKD	1:30:00 PM	7.8135	7.8137			N/A
6/27/2019	USDHKD	3:30:00 PM	7.8132	7.8136			N/A
6/27/2019	USDHKD.fx	9:30:00 AM	7.81251	7.81298			N/A
6/27/2019	USDHKD.fx	11:30:00 AM	7.81396	7.81396			N/A
6/27/2019	USDHKD.fx	1:30:00 PM	7.81341	7.81397			N/A
6/27/2019	USDHKD.fx	3:30:00 PM	7.81303	7.81364			N/A
6/27/2019	USDHUF	9:30:00 AM	284.79	285.18			N/A
6/27/2019	USDHUF	11:30:00 AM	284.26	284.69			N/A
6/27/2019	USDHUF	1:30:00 PM	284.34	284.8			N/A
6/27/2019	USDHUF	3:30:00 PM	284.45	284.88			N/A
6/27/2019	USDHUF.fx	9:30:00 AM	284.995	284.981			N/A
6/27/2019	USDHUF.fx	11:30:00 AM	284.462	284.477			N/A
6/27/2019	USDHUF.fx	1:30:00 PM	284.545	284.598			N/A
6/27/2019	USDHUF.fx	3:30:00 PM	284.654	284.688			N/A
6/27/2019	USDINR	9:30:00 AM	64.22	74.21			N/A
6/27/2019	USDINR	11:30:00 AM	64.13	74.12			N/A

6/27/2019	USDINR	1:30:00 PM					N/A
6/27/2019	USDINR	3:30:00 PM					N/A
6/27/2019	USDJPY	9:30:00 AM	108.113	108.09			N/A
6/27/2019	USDJPY	11:30:00 AM	107.987	107.993			N/A
6/27/2019	USDJPY	1:30:00 PM	107.862	107.865			N/A
6/27/2019	USDJPY	3:30:00 PM	107.927	107.872			N/A
6/27/2019	USDJPY.fx	9:30:00 AM	108.118	108.083			N/A
6/27/2019	USDJPY.fx	11:30:00 AM	107.993	107.986			N/A
6/27/2019	USDJPY.fx	1:30:00 PM	107.869	107.858			N/A
6/27/2019	USDJPY.fx	3:30:00 PM	107.931	107.869			N/A
6/27/2019	USDMXN	9:30:00 AM	19.135	19.141			N/A
6/27/2019	USDMXN	11:30:00 AM	19.118	19.125			N/A
6/27/2019	USDMXN	1:30:00 PM	19.107	19.116			N/A
6/27/2019	USDMXN	3:30:00 PM	19.094	19.103			N/A
6/27/2019	USDMXN.f	9:30:00 AM					N/A
6/27/2019	USDMXN.f	11:30:00 AM					N/A
6/27/2019	USDMXN.f	1:30:00 PM					N/A
6/27/2019	USDMXN.f	3:30:00 PM					N/A
6/27/2019	USDNOK	9:30:00 AM	8.5026	8.5101			N/A
6/27/2019	USDNOK	11:30:00 AM	8.5063	8.5131			N/A
6/27/2019	USDNOK	1:30:00 PM	8.5148	8.5223			N/A
6/27/2019	USDNOK	3:30:00 PM	8.512	8.5196			N/A
6/27/2019	USDNOK.fx	9:30:00 AM	8.50648	8.50582			N/A
6/27/2019	USDNOK.fx	11:30:00 AM	8.51048	8.5086			N/A
6/27/2019	USDNOK.fx	1:30:00 PM	8.51876	8.51794			N/A
6/27/2019	USDNOK.fx	3:30:00 PM	8.51607	8.51482			N/A
6/27/2019	USDPLN	9:30:00 AM	3.7514	3.7519			N/A
6/27/2019	USDPLN	11:30:00 AM	3.7435	3.7445			N/A
6/27/2019	USDPLN	1:30:00 PM	3.742	3.7435			N/A
6/27/2019	USDPLN	3:30:00 PM	3.738	3.739			N/A
6/27/2019	USDPLN.fx	9:30:00 AM	3.75058	3.75259			N/A
6/27/2019	USDPLN.fx	11:30:00 AM	3.74266	3.7453			N/A
6/27/2019	USDPLN.fx	1:30:00 PM	3.74128	3.74423			N/A
6/27/2019	USDPLN.fx	3:30:00 PM	3.73705	3.73984			N/A

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6/27/2019	USDRUB	11:30:00 AM	62.78	63.157			N/A
6/27/2019	USDRUB	1:30:00 PM	62.855	63.24			N/A
6/27/2019	USDRUB	3:30:00 PM	62.826	63.192			N/A
6/27/2019	USDSEK	9:30:00 AM	9.2748	9.2777			N/A
6/27/2019	USDSEK	11:30:00 AM	9.2733	9.2766			N/A
6/27/2019	USDSEK	1:30:00 PM	9.2742	9.2786			N/A
6/27/2019	USDSEK	3:30:00 PM	9.2787	9.2821			N/A
6/27/2019	USDSEK.fx	9:30:00 AM	9.27741	9.27569			N/A
6/27/2019	USDSEK.fx	11:30:00 AM	9.27592	9.27469			N/A
6/27/2019	USDSEK.fx	1:30:00 PM	9.2769	9.27671			N/A
6/27/2019	USDSEK.fx	3:30:00 PM	9.28138	9.28024			N/A
6/27/2019	USDSGD	9:30:00 AM	1.3552	1.3553			N/A
6/27/2019	USDSGD	11:30:00 AM	1.3546	1.3549			N/A
6/27/2019	USDSGD	1:30:00 PM	1.3544	1.3547			N/A
6/27/2019	USDSGD	3:30:00 PM	1.3535	1.3538			N/A
6/27/2019	USDSGD.fx	9:30:00 AM	1.35517	1.35546			N/A
6/27/2019	USDSGD.fx	11:30:00 AM	1.35455	1.35501			N/A
6/27/2019	USDSGD.fx	1:30:00 PM	1.35432	1.35482			N/A
6/27/2019	USDSGD.fx	3:30:00 PM	1.35342	1.3539			N/A
6/27/2019	USDZAR	9:30:00 AM	14.2534	14.268			N/A
6/27/2019	USDZAR	11:30:00 AM	14.1793	14.1948			N/A
6/27/2019	USDZAR	1:30:00 PM	14.1498	14.1691			N/A
6/27/2019	USDZAR	3:30:00 PM	14.1352	14.1466			N/A
6/27/2019	USDZAR.fx	9:30:00 AM	14.25897	14.26242			N/A
6/27/2019	USDZAR.fx	11:30:00 AM	14.18507	14.1892			N/A
6/27/2019	USDZAR.fx	1:30:00 PM	14.15572	14.16328			N/A
6/27/2019	USDZAR.fx	3:30:00 PM	14.13846	14.14092			N/A
6/27/2019	XAUUSD	9:30:00 AM	1404.82	1404.26			N/A
6/27/2019	XAUUSD	11:30:00 AM	1403.61	1403.73			N/A
6/27/2019	XAUUSD	1:30:00 PM	1404.68	1404.97			N/A
6/27/2019	XAUUSD	3:30:00 PM	1406.2	1405.31			N/A
6/27/2019	ZARJPY	9:30:00 AM					N/A
6/27/2019	ZARJPY	11:30:00 AM	7.59	7.61			N/A

6/27/2019	ZARJPY	1:30:00 PM	7.6	7.62			N/A
6/27/2019	ZARJPY	3:30:00 PM	7.61	7.63			N/A
6/27/2019	ZARJPY.fx	9:30:00 AM	7.579	7.581			N/A
6/27/2019	ZARJPY.fx	11:30:00 AM	7.61	7.613			N/A
6/27/2019	ZARJPY.fx	1:30:00 PM	7.615	7.62			N/A
6/27/2019	ZARJPY.fx	3:30:00 PM	7.63	7.63			N/A
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6/28/2019	#Bitcoin	9:30:00 AM	11324.65	11410.65			N/A
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6/28/2019	#KO	1:30:00 PM					N/A
6/28/2019	#KO	3:30:00 PM					N/A
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6/28/2019	#Litecoin	11:30:00 AM	118.33	118.74			N/A
6/28/2019	#Litecoin	1:30:00 PM	117.38	117.75			N/A
6/28/2019	#Litecoin	3:30:00 PM	117.76	118.31			N/A

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6/28/2019	#NG.f	1:30:00 PM					N/A
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6/28/2019	#Ripple	1:30:00 PM	0.4099	0.4146			N/A
6/28/2019	#Ripple	3:30:00 PM	0.4068	0.4109			N/A
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6/28/2019	#SBUX	3:30:00 PM					N/A
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6/28/2019	#TRV	11:30:00 AM					N/A
6/28/2019	#TRV	1:30:00 PM					N/A
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6/28/2019	#V	3:30:00 PM					N/A
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6/28/2019	#YHOO	3:30:00 PM					N/A
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6/28/2019	#ZNGA	1:30:00 PM					N/A
6/28/2019	#ZNGA	3:30:00 PM					N/A
6/28/2019	AUDCAD	9:30:00 AM	0.91788	0.91846			N/A
6/28/2019	AUDCAD	11:30:00 AM	0.91773	0.91833			N/A
6/28/2019	AUDCAD	1:30:00 PM	0.91732	0.91799			N/A
6/28/2019	AUDCAD	3:30:00 PM	0.91639	0.91603			N/A
6/28/2019	AUDCAD.fx	9:30:00 AM	0.91822	0.91811			N/A
6/28/2019	AUDCAD.fx	11:30:00 AM	0.91806	0.91798			N/A
6/28/2019	AUDCAD.fx	1:30:00 PM	0.91767	0.91764			N/A
6/28/2019	AUDCAD.fx	3:30:00 PM	0.9165	0.91577			N/A
6/28/2019	AUDCHF	9:30:00 AM	0.68349	0.68418			N/A
6/28/2019	AUDCHF	11:30:00 AM	0.6829	0.68354			N/A
6/28/2019	AUDCHF	1:30:00 PM	0.68305	0.68372			N/A
6/28/2019	AUDCHF	3:30:00 PM	0.68309	0.68372			N/A
6/28/2019	AUDCHF.fx	9:30:00 AM	0.68384	0.68384			N/A
6/28/2019	AUDCHF.fx	11:30:00 AM	0.68324	0.68321			N/A
6/28/2019	AUDCHF.fx	1:30:00 PM	0.68339	0.68338			N/A
6/28/2019	AUDCHF.fx	3:30:00 PM	0.68344	0.68338			N/A
6/28/2019	AUDCZK	9:30:00 AM	15.674	15.684			N/A
6/28/2019	AUDCZK	11:30:00 AM	15.64	15.654			N/A
6/28/2019	AUDCZK	1:30:00 PM	15.64	15.654			N/A
6/28/2019	AUDCZK	3:30:00 PM	15.634	15.649			N/A
6/28/2019	AUDDKK	9:30:00 AM	4.6018	4.6065			N/A
6/28/2019	AUDDKK	11:30:00 AM	4.5948	4.599			N/A
6/28/2019	AUDDKK	1:30:00 PM	4.5938	4.5981			N/A
6/28/2019	AUDDKK	3:30:00 PM	4.5912	4.5953			N/A
6/28/2019	AUDHKD	9:30:00 AM	5.4732	5.4772			N/A
6/28/2019	AUDHKD	11:30:00 AM	5.4703	5.4742			N/A

6/28/2019	AUDHKD	1:30:00 PM	5.4693	5.4727			N/A
6/28/2019	AUDHKD	3:30:00 PM	5.4662	5.4699			N/A
6/28/2019	AUDHUF	9:30:00 AM	199.61	199.83			N/A
6/28/2019	AUDHUF	11:30:00 AM	199.1	199.33			N/A
6/28/2019	AUDHUF	1:30:00 PM	199.03	199.26			N/A
6/28/2019	AUDHUF	3:30:00 PM	198.76	198.9			N/A
6/28/2019	AUDJPY	9:30:00 AM	75.524	75.561			N/A
6/28/2019	AUDJPY	11:30:00 AM	75.469	75.529			N/A
6/28/2019	AUDJPY	1:30:00 PM	75.412	75.485			N/A
6/28/2019	AUDJPY	3:30:00 PM	75.442	75.499			N/A
6/28/2019	AUDJPY.fx	9:30:00 AM	75.558	75.526			N/A
6/28/2019	AUDJPY.fx	11:30:00 AM	75.502	75.494			N/A
6/28/2019	AUDJPY.fx	1:30:00 PM	75.447	75.449			N/A
6/28/2019	AUDJPY.fx	3:30:00 PM	75.475	75.466			N/A
6/28/2019	AUDMXN	9:30:00 AM	13.4429	13.4521			N/A
6/28/2019	AUDMXN	11:30:00 AM	13.4367	13.4472			N/A
6/28/2019	AUDMXN	1:30:00 PM	13.4617	13.471			N/A
6/28/2019	AUDMXN	3:30:00 PM	13.4131	13.4172			N/A
6/28/2019	AUDNOK	9:30:00 AM	5.9672	5.9723			N/A
6/28/2019	AUDNOK	11:30:00 AM	5.9687	5.9723			N/A
6/28/2019	AUDNOK	1:30:00 PM	5.9653	5.9698			N/A
6/28/2019	AUDNOK	3:30:00 PM	5.9651	5.9696			N/A
6/28/2019	AUDNOK.fx	9:30:00 AM	5.9684	5.9707			N/A
6/28/2019	AUDNOK.fx	11:30:00 AM	5.9702	5.9709			N/A
6/28/2019	AUDNOK.fx	1:30:00 PM	5.9666	5.9682			N/A
6/28/2019	AUDNOK.fx	3:30:00 PM	5.9664	5.9682			N/A
6/28/2019	AUDNZD	9:30:00 AM	1.04576	1.04646			N/A
6/28/2019	AUDNZD	11:30:00 AM	1.04536	1.0462			N/A
6/28/2019	AUDNZD	1:30:00 PM	1.04439	1.04527			N/A
6/28/2019	AUDNZD	3:30:00 PM	1.04345	1.04426			N/A
6/28/2019	AUDNZD.fx	9:30:00 AM	1.04621	1.04601			N/A
6/28/2019	AUDNZD.fx	11:30:00 AM	1.0458	1.04575			N/A
6/28/2019	AUDNZD.fx	1:30:00 PM	1.04484	1.04481			N/A
6/28/2019	AUDNZD.fx	3:30:00 PM	1.04387	1.04379			N/A

6/28/2019	AUDPLN	9:30:00 AM	2.6212	2.6244			N/A
6/28/2019	AUDPLN	11:30:00 AM	2.6184	2.6212			N/A
6/28/2019	AUDPLN	1:30:00 PM	2.6164	2.6194			N/A
6/28/2019	AUDPLN	3:30:00 PM	2.615	2.6166			N/A
6/28/2019	AUDSEK	9:30:00 AM	6.5023	6.5054			N/A
6/28/2019	AUDSEK	11:30:00 AM	6.4957	6.4983			N/A
6/28/2019	AUDSEK	1:30:00 PM	6.4904	6.4926			N/A
6/28/2019	AUDSEK	3:30:00 PM	6.5034	6.5056			N/A
6/28/2019	AUDSEK.fx	9:30:00 AM	6.4973	6.5104			N/A
6/28/2019	AUDSEK.fx	11:30:00 AM	6.491	6.5029			N/A
6/28/2019	AUDSEK.fx	1:30:00 PM	6.4857	6.4972			N/A
6/28/2019	AUDSEK.fx	3:30:00 PM	6.4983	6.5102			N/A
6/28/2019	AUDSGD	9:30:00 AM	0.9489	0.9491			N/A
6/28/2019	AUDSGD	11:30:00 AM	0.9485	0.9487			N/A
6/28/2019	AUDSGD	1:30:00 PM	0.9481	0.9483			N/A
6/28/2019	AUDSGD	3:30:00 PM	0.9475	0.9477			N/A
6/28/2019	AUDSGD.fx	9:30:00 AM	0.94904	0.94903			N/A
6/28/2019	AUDSGD.fx	11:30:00 AM	0.94854	0.94848			N/A
6/28/2019	AUDSGD.fx	1:30:00 PM	0.94813	0.94818			N/A
6/28/2019	AUDSGD.fx	3:30:00 PM	0.94756	0.94756			N/A
6/28/2019	AUDUSD	9:30:00 AM	0.7013	0.7014			N/A
6/28/2019	AUDUSD	11:30:00 AM	0.70125	0.70126			N/A
6/28/2019	AUDUSD	1:30:00 PM	0.70085	0.70094			N/A
6/28/2019	AUDUSD	3:30:00 PM	0.70047	0.7005			N/A
6/28/2019	AUDUSD.fx	9:30:00 AM	0.70135	0.70134			N/A
6/28/2019	AUDUSD.fx	11:30:00 AM	0.7013	0.70121			N/A
6/28/2019	AUDUSD.fx	1:30:00 PM	0.7009	0.70089			N/A
6/28/2019	AUDUSD.fx	3:30:00 PM	0.70051	0.70044			N/A
6/28/2019	AUDZAR	9:30:00 AM	9.8959	9.9115			N/A
6/28/2019	AUDZAR	11:30:00 AM	9.9056	9.921			N/A
6/28/2019	AUDZAR	1:30:00 PM	9.9244	9.9384			N/A
6/28/2019	AUDZAR	3:30:00 PM	9.9116	9.9248			N/A
6/28/2019	AUS200.i	9:30:00 AM	6618.5	6621			N/A
6/28/2019	AUS200.i	11:30:00 AM	6635.51	6636.31			N/A

6/28/2019	AUS200.i	1:30:00 PM	6633.31	6636.91			N/A
6/28/2019	AUS200.i	3:30:00 PM					N/A
6/28/2019	BCHUSD	9:30:00 AM	416.24	417.6			N/A
6/28/2019	BCHUSD	11:30:00 AM	441.14	435.96			N/A
6/28/2019	BCHUSD	1:30:00 PM	432.4	433.38			N/A
6/28/2019	BCHUSD	3:30:00 PM	424.82	425.17			N/A
6/28/2019	CADCHF	9:30:00 AM	0.74445	0.74509			N/A
6/28/2019	CADCHF	11:30:00 AM	0.74392	0.74458			N/A
6/28/2019	CADCHF	1:30:00 PM	0.74439	0.74502			N/A
6/28/2019	CADCHF	3:30:00 PM	0.74613	0.74578			N/A
6/28/2019	CADCHF.fx	9:30:00 AM	0.74478	0.74475			N/A
6/28/2019	CADCHF.fx	11:30:00 AM	0.74426	0.74424			N/A
6/28/2019	CADCHF.fx	1:30:00 PM	0.74474	0.74465			N/A
6/28/2019	CADCHF.fx	3:30:00 PM	0.74643	0.74557			N/A
6/28/2019	CADCZK	9:30:00 AM	17.075	17.085			N/A
6/28/2019	CADCZK	11:30:00 AM	17.041	17.054			N/A
6/28/2019	CADCZK	1:30:00 PM	17.048	17.062			N/A
6/28/2019	CADCZK	3:30:00 PM	17.08	17.076			N/A
6/28/2019	CADDDKK	9:30:00 AM					N/A
6/28/2019	CADDDKK	11:30:00 AM	5.004	5.008			N/A
6/28/2019	CADDDKK	1:30:00 PM	5.007	5.011			N/A
6/28/2019	CADDDKK	3:30:00 PM	5.014	5.012			N/A
6/28/2019	CADHKD	9:30:00 AM	5.9622	5.9661			N/A
6/28/2019	CADHKD	11:30:00 AM	5.9607	5.9647			N/A
6/28/2019	CADHKD	1:30:00 PM	5.9616	5.9646			N/A
6/28/2019	CADHKD	3:30:00 PM	5.9719	5.9682			N/A
6/28/2019	CADHUF	9:30:00 AM	217.49	217.61			N/A
6/28/2019	CADHUF	11:30:00 AM	216.99	217.1			N/A
6/28/2019	CADHUF	1:30:00 PM	217	217.13			N/A
6/28/2019	CADHUF	3:30:00 PM	217.12	217			N/A
6/28/2019	CADJPY	9:30:00 AM	82.251	82.287			N/A
6/28/2019	CADJPY	11:30:00 AM	82.21	82.273			N/A
6/28/2019	CADJPY	1:30:00 PM	82.185	82.251			N/A
6/28/2019	CADJPY	3:30:00 PM	82.384	82.343			N/A

6/28/2019	CADJPY.fx	9:30:00 AM	82.284	82.252			N/A
6/28/2019	CADJPY.fx	11:30:00 AM	82.243	82.24			N/A
6/28/2019	CADJPY.fx	1:30:00 PM	82.219	82.216			N/A
6/28/2019	CADJPY.fx	3:30:00 PM	82.41	82.326			N/A
6/28/2019	CADMXN	9:30:00 AM	14.6426	14.6543			N/A
6/28/2019	CADMXN	11:30:00 AM	14.6403	14.6516			N/A
6/28/2019	CADMXN	1:30:00 PM	14.673	14.6833			N/A
6/28/2019	CADMXN	3:30:00 PM	14.6472	14.6423			N/A
6/28/2019	CADNOK	9:30:00 AM	6.4984	6.5032			N/A
6/28/2019	CADNOK	11:30:00 AM	6.4991	6.5017			N/A
6/28/2019	CADNOK	1:30:00 PM	6.5008	6.5043			N/A
6/28/2019	CADNOK	3:30:00 PM	6.5112	6.5081			N/A
6/28/2019	CADPLN	9:30:00 AM	2.8551	2.8571			N/A
6/28/2019	CADPLN	11:30:00 AM	2.8514	2.8533			N/A
6/28/2019	CADPLN	1:30:00 PM	2.8522	2.8535			N/A
6/28/2019	CADPLN	3:30:00 PM	2.8545	2.8527			N/A
6/28/2019	CADSEK	9:30:00 AM	7.0807	7.0845			N/A
6/28/2019	CADSEK	11:30:00 AM	7.0745	7.0771			N/A
6/28/2019	CADSEK	1:30:00 PM	7.072	7.0745			N/A
6/28/2019	CADSEK	3:30:00 PM	7.1003	7.0956			N/A
6/28/2019	CADSGD	9:30:00 AM	1.0328	1.0331			N/A
6/28/2019	CADSGD	11:30:00 AM	1.0326	1.0329			N/A
6/28/2019	CADSGD	1:30:00 PM	1.0326	1.0328			N/A
6/28/2019	CADSGD	3:30:00 PM	1.0335	1.0338			N/A
6/28/2019	CADZAR	9:30:00 AM	10.7804	10.7966			N/A
6/28/2019	CADZAR	11:30:00 AM	10.7931	10.81			N/A
6/28/2019	CADZAR	1:30:00 PM	10.8171	10.8324			N/A
6/28/2019	CADZAR	3:30:00 PM	10.8267	10.8307			N/A
6/28/2019	CHFCZK	9:30:00 AM	22.932	22.937			N/A
6/28/2019	CHFCZK	11:30:00 AM	22.901	22.913			N/A
6/28/2019	CHFCZK	1:30:00 PM	22.894	22.907			N/A
6/28/2019	CHFCZK	3:30:00 PM	22.886	22.902			N/A
6/28/2019	CHFDKK	9:30:00 AM	6.731	6.734			N/A
6/28/2019	CHFDKK	11:30:00 AM	6.727	6.729			N/A

6/28/2019	CHFDKK	1:30:00 PM	6.724	6.727			N/A
6/28/2019	CHFDKK	3:30:00 PM	6.719	6.721			N/A
6/28/2019	CHFDKK.fx	9:30:00 AM	6.7297	6.7357			N/A
6/28/2019	CHFDKK.fx	11:30:00 AM	6.7254	6.7302			N/A
6/28/2019	CHFDKK.fx	1:30:00 PM	6.722	6.728			N/A
6/28/2019	CHFDKK.fx	3:30:00 PM	6.7177	6.7237			N/A
6/28/2019	CHFHKD	9:30:00 AM	8.007	8.0109			N/A
6/28/2019	CHFHKD	11:30:00 AM	8.0097	8.0135			N/A
6/28/2019	CHFHKD	1:30:00 PM	8.0056	8.0088			N/A
6/28/2019	CHFHKD	3:30:00 PM	8.0011	8.0048			N/A
6/28/2019	CHFHUF	9:30:00 AM	291.94	292.31			N/A
6/28/2019	CHFHUF	11:30:00 AM	291.48	291.79			N/A
6/28/2019	CHFHUF	1:30:00 PM	291.28	291.64			N/A
6/28/2019	CHFHUF	3:30:00 PM	290.89	291.15			N/A
6/28/2019	CHFJPY	9:30:00 AM	110.454	110.486			N/A
6/28/2019	CHFJPY	11:30:00 AM	110.469	110.538			N/A
6/28/2019	CHFJPY	1:30:00 PM	110.373	110.434			N/A
6/28/2019	CHFJPY	3:30:00 PM	110.407	110.457			N/A
6/28/2019	CHFJPY.fx	9:30:00 AM	110.487	110.454			N/A
6/28/2019	CHFJPY.fx	11:30:00 AM	110.503	110.505			N/A
6/28/2019	CHFJPY.fx	1:30:00 PM	110.406	110.399			N/A
6/28/2019	CHFJPY.fx	3:30:00 PM	110.44	110.423			N/A
6/28/2019	CHFMXN	9:30:00 AM	19.6615	19.6779			N/A
6/28/2019	CHFMXN	11:30:00 AM	19.672	19.6864			N/A
6/28/2019	CHFMXN	1:30:00 PM	19.7025	19.7166			N/A
6/28/2019	CHFMXN	3:30:00 PM	19.6314	19.6373			N/A
6/28/2019	CHFNOK	9:30:00 AM	8.7261	8.7338			N/A
6/28/2019	CHFNOK	11:30:00 AM	8.7368	8.7406			N/A
6/28/2019	CHFNOK	1:30:00 PM	8.7282	8.736			N/A
6/28/2019	CHFNOK	3:30:00 PM	8.7276	8.7351			N/A
6/28/2019	CHFNOK.fx	9:30:00 AM	8.72943	8.73022			N/A
6/28/2019	CHFNOK.fx	11:30:00 AM	8.74018	8.73725			N/A
6/28/2019	CHFNOK.fx	1:30:00 PM	8.73158	8.73238			N/A
6/28/2019	CHFNOK.fx	3:30:00 PM	8.73094	8.73182			N/A

6/28/2019	CHFPLN	9:30:00 AM	3.834	3.837			N/A
6/28/2019	CHFPLN	11:30:00 AM	3.8329	3.8353			N/A
6/28/2019	CHFPLN	1:30:00 PM	3.8293	3.8323			N/A
6/28/2019	CHFPLN	3:30:00 PM	3.8273	3.828			N/A
6/28/2019	CHFPLN.fx	9:30:00 AM	3.83146	3.83945			N/A
6/28/2019	CHFPLN.fx	11:30:00 AM	3.83036	3.83783			N/A
6/28/2019	CHFPLN.fx	1:30:00 PM	3.82696	3.83465			N/A
6/28/2019	CHFPLN.fx	3:30:00 PM	3.82252	3.83075			N/A
6/28/2019	CHFSEK	9:30:00 AM	9.508	9.5122			N/A
6/28/2019	CHFSEK	11:30:00 AM	9.5065	9.5091			N/A
6/28/2019	CHFSEK	1:30:00 PM	9.4958	9.4995			N/A
6/28/2019	CHFSEK	3:30:00 PM	9.5131	9.5164			N/A
6/28/2019	CHFSGD	9:30:00 AM	1.3877	1.3881			N/A
6/28/2019	CHFSGD	11:30:00 AM	1.3881	1.3885			N/A
6/28/2019	CHFSGD	1:30:00 PM	1.3872	1.3875			N/A
6/28/2019	CHFSGD	3:30:00 PM	1.3864	1.3867			N/A
6/28/2019	CHFSGD.fx	9:30:00 AM	1.38783	1.38787			N/A
6/28/2019	CHFSGD.fx	11:30:00 AM	1.38832	1.3883			N/A
6/28/2019	CHFSGD.fx	1:30:00 PM	1.38739	1.38727			N/A
6/28/2019	CHFSGD.fx	3:30:00 PM	1.38658	1.38649			N/A
6/28/2019	CHFZAR	9:30:00 AM	14.4787	14.4944			N/A
6/28/2019	CHFZAR	11:30:00 AM	14.507	14.5209			N/A
6/28/2019	CHFZAR	1:30:00 PM	14.5304	14.5417			N/A
6/28/2019	CHFZAR	3:30:00 PM	14.5113	14.5224			N/A
6/28/2019	CZKJPY	9:30:00 AM	4.818	4.82			N/A
6/28/2019	CZKJPY	11:30:00 AM	4.823	4.827			N/A
6/28/2019	CZKJPY	1:30:00 PM	4.82	4.823			N/A
6/28/2019	CZKJPY	3:30:00 PM	4.823	4.827			N/A
6/28/2019	DAX30.i	9:30:00 AM	12284.32	12283.32			N/A
6/28/2019	DAX30.i	11:30:00 AM	12334.57	12318.82			N/A
6/28/2019	DAX30.i	1:30:00 PM	12317.32	12317.82			N/A
6/28/2019	DAX30.i	3:30:00 PM	12325.57	12324.82			N/A
6/28/2019	DJ30.i	9:30:00 AM					N/A
6/28/2019	DJ30.i	11:30:00 AM					N/A

6/28/2019	DJ30.i	1:30:00 PM					N/A
6/28/2019	DJ30.i	3:30:00 PM					N/A
6/28/2019	DKKJPY	9:30:00 AM					N/A
6/28/2019	DKKJPY	11:30:00 AM					N/A
6/28/2019	DKKJPY	1:30:00 PM	16.42	16.43			N/A
6/28/2019	DKKJPY	3:30:00 PM	16.44	16.45			N/A
6/28/2019	EURAUD	9:30:00 AM	1.62041	1.62075			N/A
6/28/2019	EURAUD	11:30:00 AM	1.62296	1.62317			N/A
6/28/2019	EURAUD	1:30:00 PM	1.62327	1.62343			N/A
6/28/2019	EURAUD	3:30:00 PM	1.62427	1.62447			N/A
6/28/2019	EURAUD.fx	9:30:00 AM	1.62062	1.62052			N/A
6/28/2019	EURAUD.fx	11:30:00 AM	1.62316	1.62296			N/A
6/28/2019	EURAUD.fx	1:30:00 PM	1.62347	1.62322			N/A
6/28/2019	EURAUD.fx	3:30:00 PM	1.62447	1.62429			N/A
6/28/2019	EURCAD	9:30:00 AM	1.48817	1.48887			N/A
6/28/2019	EURCAD	11:30:00 AM	1.49034	1.49088			N/A
6/28/2019	EURCAD	1:30:00 PM	1.48996	1.49048			N/A
6/28/2019	EURCAD	3:30:00 PM	1.48928	1.4882			N/A
6/28/2019	EURCAD.fx	9:30:00 AM	1.48861	1.48846			N/A
6/28/2019	EURCAD.fx	11:30:00 AM	1.49076	1.49045			N/A
6/28/2019	EURCAD.fx	1:30:00 PM	1.49038	1.49006			N/A
6/28/2019	EURCAD.fx	3:30:00 PM	1.48953	1.48787			N/A
6/28/2019	EURCHF	9:30:00 AM	1.10852	1.10863			N/A
6/28/2019	EURCHF	11:30:00 AM	1.10941	1.10933			N/A
6/28/2019	EURCHF	1:30:00 PM	1.10978	1.10982			N/A
6/28/2019	EURCHF	3:30:00 PM	1.11042	1.11054			N/A
6/28/2019	EURCHF.fx	9:30:00 AM	1.10857	1.10857			N/A
6/28/2019	EURCHF.fx	11:30:00 AM	1.10946	1.10928			N/A
6/28/2019	EURCHF.fx	1:30:00 PM	1.10983	1.10976			N/A
6/28/2019	EURCHF.fx	3:30:00 PM	1.11047	1.11048			N/A
6/28/2019	EURCZK	9:30:00 AM	25.401	25.435			N/A
6/28/2019	EURCZK	11:30:00 AM					N/A
6/28/2019	EURCZK	1:30:00 PM	25.394	25.431			N/A
6/28/2019	EURCZK	3:30:00 PM	25.401	25.439			N/A

6/28/2019	EURDKK	9:30:00 AM	7.4626	7.4639			N/A
6/28/2019	EURDKK	11:30:00 AM	7.463	7.4643			N/A
6/28/2019	EURDKK	1:30:00 PM					N/A
6/28/2019	EURDKK	3:30:00 PM	7.4614	7.4627			N/A
6/28/2019	EURGBP	9:30:00 AM	0.89722	0.89725			N/A
6/28/2019	EURGBP	11:30:00 AM	0.89867	0.89805			N/A
6/28/2019	EURGBP	1:30:00 PM	0.89788	0.89798			N/A
6/28/2019	EURGBP	3:30:00 PM	0.89674	0.89669			N/A
6/28/2019	EURGBP.fx	9:30:00 AM	0.89725	0.8972			N/A
6/28/2019	EURGBP.fx	11:30:00 AM	0.89869	0.89801			N/A
6/28/2019	EURGBP.fx	1:30:00 PM	0.89792	0.89792			N/A
6/28/2019	EURGBP.fx	3:30:00 PM	0.89678	0.89666			N/A
6/28/2019	EURHKD	9:30:00 AM	8.8774	8.882			N/A
6/28/2019	EURHKD	11:30:00 AM	8.8886	8.8914			N/A
6/28/2019	EURHKD	1:30:00 PM	8.8862	8.8905			N/A
6/28/2019	EURHKD	3:30:00 PM	8.8866	8.8907			N/A
6/28/2019	EURHKD.fx	9:30:00 AM	8.87989	8.87938			N/A
6/28/2019	EURHKD.fx	11:30:00 AM	8.89126	8.88863			N/A
6/28/2019	EURHKD.fx	1:30:00 PM	8.88887	8.88761			N/A
6/28/2019	EURHKD.fx	3:30:00 PM	8.88931	8.88803			N/A
6/28/2019	EURHUF	9:30:00 AM	323.6	324.24			N/A
6/28/2019	EURHUF	11:30:00 AM	323.45	323.87			N/A
6/28/2019	EURHUF	1:30:00 PM	323.22	323.8			N/A
6/28/2019	EURHUF	3:30:00 PM	322.98	323.69			N/A
6/28/2019	EURHUF.fx	9:30:00 AM	323.869	324.056			N/A
6/28/2019	EURHUF.fx	11:30:00 AM	323.712	323.849			N/A
6/28/2019	EURHUF.fx	1:30:00 PM	323.499	323.665			N/A
6/28/2019	EURHUF.fx	3:30:00 PM	323.267	323.42			N/A
6/28/2019	EURJPY	9:30:00 AM	122.484	122.449			N/A
6/28/2019	EURJPY	11:30:00 AM	122.598	122.579			N/A
6/28/2019	EURJPY	1:30:00 PM	122.528	122.519			N/A
6/28/2019	EURJPY	3:30:00 PM	122.641	122.627			N/A
6/28/2019	EURJPY.fx	9:30:00 AM	122.487	122.445			N/A
6/28/2019	EURJPY.fx	11:30:00 AM	122.601	122.577			N/A

6/28/2019	EURJPY.fx	1:30:00 PM	122.53	122.515			N/A
6/28/2019	EURJPY.fx	3:30:00 PM	122.643	122.626			N/A
6/28/2019	EURMXN	9:30:00 AM	21.8002	21.8182			N/A
6/28/2019	EURMXN	11:30:00 AM	21.8264	21.8436			N/A
6/28/2019	EURMXN	1:30:00 PM	21.8681	21.8856			N/A
6/28/2019	EURMXN	3:30:00 PM	21.8055	21.8138			N/A
6/28/2019	EURMXN.fx	9:30:00 AM	21.8091	21.8093			N/A
6/28/2019	EURMXN.fx	11:30:00 AM	21.8344	21.8353			N/A
6/28/2019	EURMXN.fx	1:30:00 PM	21.8762	21.8767			N/A
6/28/2019	EURMXN.fx	3:30:00 PM	21.8145	21.8043			N/A
6/28/2019	EURNOK	9:30:00 AM	9.672	9.6839			N/A
6/28/2019	EURNOK	11:30:00 AM	9.6897	9.699			N/A
6/28/2019	EURNOK	1:30:00 PM	9.6849	9.6973			N/A
6/28/2019	EURNOK	3:30:00 PM	9.6906	9.7022			N/A
6/28/2019	EURNOK.fx	9:30:00 AM	9.67731	9.67838			N/A
6/28/2019	EURNOK.fx	11:30:00 AM	9.69508	9.69378			N/A
6/28/2019	EURNOK.fx	1:30:00 PM	9.69043	9.69176			N/A
6/28/2019	EURNOK.fx	3:30:00 PM	9.69611	9.69678			N/A
6/28/2019	EURNZD	9:30:00 AM	1.69568	1.69621			N/A
6/28/2019	EURNZD	11:30:00 AM	1.69769	1.69819			N/A
6/28/2019	EURNZD	1:30:00 PM	1.69652	1.69694			N/A
6/28/2019	EURNZD	3:30:00 PM	1.69588	1.6965			N/A
6/28/2019	EURNZD.fx	9:30:00 AM	1.69611	1.69579			N/A
6/28/2019	EURNZD.fx	11:30:00 AM	1.69809	1.69777			N/A
6/28/2019	EURNZD.fx	1:30:00 PM	1.69695	1.69649			N/A
6/28/2019	EURNZD.fx	3:30:00 PM	1.69629	1.69605			N/A
6/28/2019	EURPLN	9:30:00 AM	4.2504	4.2536			N/A
6/28/2019	EURPLN	11:30:00 AM	4.2519	4.2552			N/A
6/28/2019	EURPLN	1:30:00 PM	4.2499	4.2532			N/A
6/28/2019	EURPLN	3:30:00 PM	4.2502	4.2511			N/A
6/28/2019	EURPLN.fx	9:30:00 AM	4.24967	4.25432			N/A
6/28/2019	EURPLN.fx	11:30:00 AM	4.25128	4.25572			N/A
6/28/2019	EURPLN.fx	1:30:00 PM	4.24913	4.25386			N/A
6/28/2019	EURPLN.fx	3:30:00 PM	4.24877	4.25176			N/A

6/28/2019	EURRUB	9:30:00 AM					N/A
6/28/2019	EURRUB	11:30:00 AM	71.518	71.948			N/A
6/28/2019	EURRUB	1:30:00 PM	71.43	71.861			N/A
6/28/2019	EURRUB	3:30:00 PM	71.251	71.672			N/A
6/28/2019	EURSEK	9:30:00 AM	10.5417	10.5464			N/A
6/28/2019	EURSEK	11:30:00 AM	10.5476	10.5513			N/A
6/28/2019	EURSEK	1:30:00 PM	10.5392	10.5445			N/A
6/28/2019	EURSEK	3:30:00 PM	10.567	10.5715			N/A
6/28/2019	EURSEK.fx	9:30:00 AM	10.54313	10.54485			N/A
6/28/2019	EURSEK.fx	11:30:00 AM	10.54915	10.54964			N/A
6/28/2019	EURSEK.fx	1:30:00 PM	10.54096	10.54262			N/A
6/28/2019	EURSEK.fx	3:30:00 PM	10.56867	10.56995			N/A
6/28/2019	EURSGD	9:30:00 AM	1.5382	1.5389			N/A
6/28/2019	EURSGD	11:30:00 AM	1.5399	1.5404			N/A
6/28/2019	EURSGD	1:30:00 PM	1.5395	1.5402			N/A
6/28/2019	EURSGD	3:30:00 PM	1.5395	1.5401			N/A
6/28/2019	EURSGD.fx	9:30:00 AM	1.53858	1.53851			N/A
6/28/2019	EURSGD.fx	11:30:00 AM	1.54032	1.53998			N/A
6/28/2019	EURSGD.fx	1:30:00 PM	1.5398	1.53976			N/A
6/28/2019	EURSGD.fx	3:30:00 PM	1.53986	1.53966			N/A
6/28/2019	EURUSD	9:30:00 AM	1.13685	1.13688			N/A
6/28/2019	EURUSD	11:30:00 AM	1.13859	1.13838			N/A
6/28/2019	EURUSD	1:30:00 PM	1.1381	1.13809			N/A
6/28/2019	EURUSD	3:30:00 PM	1.13808	1.13808			N/A
6/28/2019	EURUSD.fx	9:30:00 AM	1.13705	1.13697			N/A
6/28/2019	EURUSD.fx	11:30:00 AM	1.13879	1.13847			N/A
6/28/2019	EURUSD.fx	1:30:00 PM	1.1383	1.13818			N/A
6/28/2019	EURUSD.fx	3:30:00 PM	1.13828	1.13814			N/A
6/28/2019	EURZAR	9:30:00 AM	16.0542	16.0734			N/A
6/28/2019	EURZAR	11:30:00 AM	16.1004	16.1183			N/A
6/28/2019	EURZAR	1:30:00 PM	16.1304	16.1444			N/A
6/28/2019	EURZAR	3:30:00 PM	16.1189	16.138			N/A
6/28/2019	EURZAR.fx	9:30:00 AM	16.0536	16.07393			N/A
6/28/2019	EURZAR.fx	11:30:00 AM	16.09976	16.11894			N/A

6/28/2019	EURZAR.fx	1:30:00 PM	16.12989	16.14563			N/A
6/28/2019	EURZAR.fx	3:30:00 PM	16.11793	16.13901			N/A
6/28/2019	GBPAUD	9:30:00 AM	1.80653	1.80723			N/A
6/28/2019	GBPAUD	11:30:00 AM	1.8078	1.80718			N/A
6/28/2019	GBPAUD	1:30:00 PM	1.80833	1.80881			N/A
6/28/2019	GBPAUD	3:30:00 PM	1.81178	1.81233			N/A
6/28/2019	GBPAUD.fx	9:30:00 AM	1.80692	1.80681			N/A
6/28/2019	GBPAUD.fx	11:30:00 AM	1.80821	1.80678			N/A
6/28/2019	GBPAUD.fx	1:30:00 PM	1.80871	1.80843			N/A
6/28/2019	GBPAUD.fx	3:30:00 PM	1.81218	1.81194			N/A
6/28/2019	GBPCAD	9:30:00 AM	1.65875	1.65939			N/A
6/28/2019	GBPCAD	11:30:00 AM	1.65972	1.65897			N/A
6/28/2019	GBPCAD	1:30:00 PM	1.65942	1.65989			N/A
6/28/2019	GBPCAD	3:30:00 PM	1.66086	1.65964			N/A
6/28/2019	GBPCAD.fx	9:30:00 AM	1.65914	1.65898			N/A
6/28/2019	GBPCAD.fx	11:30:00 AM	1.66013	1.65856		2000	N/A
6/28/2019	GBPCAD.fx	1:30:00 PM	1.65981	1.65949			N/A
6/28/2019	GBPCAD.fx	3:30:00 PM	1.66097	1.65934			N/A
6/28/2019	GBPCHF	9:30:00 AM	1.23537	1.23579			N/A
6/28/2019	GBPCHF	11:30:00 AM	1.23528	1.23456			N/A
6/28/2019	GBPCHF	1:30:00 PM	1.23576	1.2362			N/A
6/28/2019	GBPCHF	3:30:00 PM	1.23826	1.23857			N/A
6/28/2019	GBPCHF.fx	9:30:00 AM	1.23556	1.23557			N/A
6/28/2019	GBPCHF.fx	11:30:00 AM	1.23547	1.23435			N/A
6/28/2019	GBPCHF.fx	1:30:00 PM	1.23597	1.23599			N/A
6/28/2019	GBPCHF.fx	3:30:00 PM	1.23835	1.23835			N/A
6/28/2019	GBPCZK	9:30:00 AM	28.319	28.335			N/A
6/28/2019	GBPCZK	11:30:00 AM	28.282	28.281			N/A
6/28/2019	GBPCZK	1:30:00 PM	28.289	28.31			N/A
6/28/2019	GBPCZK	3:30:00 PM	28.34	28.354			N/A
6/28/2019	GBPDKK	9:30:00 AM	8.314	8.325			N/A
6/28/2019	GBPDKK	11:30:00 AM	8.306	8.311			N/A
6/28/2019	GBPDKK	1:30:00 PM	8.307	8.318			N/A
6/28/2019	GBPDKK	3:30:00 PM	8.319	8.329			N/A

6/28/2019	GBPDKK.fx	9:30:00 AM	8.3124	8.325			N/A
6/28/2019	GBPDKK.fx	11:30:00 AM	8.3052	8.3114			N/A
6/28/2019	GBPDKK.fx	1:30:00 PM	8.3056	8.3185			N/A
6/28/2019	GBPDKK.fx	3:30:00 PM	8.317	8.3292			N/A
6/28/2019	GBPHKD	9:30:00 AM	9.8913	9.8962			N/A
6/28/2019	GBPHKD	11:30:00 AM	9.8937	9.8897			N/A
6/28/2019	GBPHKD	1:30:00 PM	9.8925	9.8971			N/A
6/28/2019	GBPHKD	3:30:00 PM	9.9072	9.9106			N/A
6/28/2019	GBPHUF	9:30:00 AM	360.66	361.11			N/A
6/28/2019	GBPHUF	11:30:00 AM	359.97	360.17			N/A
6/28/2019	GBPHUF	1:30:00 PM	359.93	360.41			N/A
6/28/2019	GBPHUF	3:30:00 PM	360.16	360.44			N/A
6/28/2019	GBPJPY	9:30:00 AM	136.497	136.499	500	400	N/A
6/28/2019	GBPJPY	11:30:00 AM	136.506	136.419			N/A
6/28/2019	GBPJPY	1:30:00 PM	136.441	136.465			N/A
6/28/2019	GBPJPY	3:30:00 PM	136.747	136.768			N/A
6/28/2019	GBPJPY.fx	9:30:00 AM	136.517	136.479			N/A
6/28/2019	GBPJPY.fx	11:30:00 AM	136.526	136.4			N/A
6/28/2019	GBPJPY.fx	1:30:00 PM	136.462	136.446			N/A
6/28/2019	GBPJPY.fx	3:30:00 PM	136.767	136.751			N/A
6/28/2019	GBPMXN	9:30:00 AM	24.2919	24.3058			N/A
6/28/2019	GBPMXN	11:30:00 AM	24.2984	24.2942			N/A
6/28/2019	GBPMXN	1:30:00 PM	24.3487	24.3625			N/A
6/28/2019	GBPMXN	3:30:00 PM	24.3079	24.3107			N/A
6/28/2019	GBPNOK	9:30:00 AM	10.7813	10.7922			N/A
6/28/2019	GBPNOK	11:30:00 AM	10.7883	10.7944			N/A
6/28/2019	GBPNOK	1:30:00 PM	10.7871	10.7984			N/A
6/28/2019	GBPNOK	3:30:00 PM	10.8075	10.8183			N/A
6/28/2019	GBPNOK.fx	9:30:00 AM	10.78615	10.78707			N/A
6/28/2019	GBPNOK.fx	11:30:00 AM	10.79299	10.7893			N/A
6/28/2019	GBPNOK.fx	1:30:00 PM	10.79211	10.79355			N/A
6/28/2019	GBPNOK.fx	3:30:00 PM	10.81209	10.81399			N/A
6/28/2019	GBPNZD	9:30:00 AM	1.88996	1.89046			N/A
6/28/2019	GBPNZD	11:30:00 AM	1.8907	1.88976			N/A

6/28/2019	GBPNZD	1:30:00 PM	1.88938	1.88982			N/A
6/28/2019	GBPNZD	3:30:00 PM	1.89122	1.89183			N/A
6/28/2019	GBPNZD.fx	9:30:00 AM	1.89033	1.89011			N/A
6/28/2019	GBPNZD.fx	11:30:00 AM	1.89104	1.8894			N/A
6/28/2019	GBPNZD.fx	1:30:00 PM	1.88976	1.88942			N/A
6/28/2019	GBPNZD.fx	3:30:00 PM	1.89149	1.89148			N/A
6/28/2019	GBPPLN	9:30:00 AM	4.7381	4.7398			N/A
6/28/2019	GBPPLN	11:30:00 AM	4.7356	4.7338			N/A
6/28/2019	GBPPLN	1:30:00 PM	4.7339	4.7358			N/A
6/28/2019	GBPPLN	3:30:00 PM	4.7409	4.7395			N/A
6/28/2019	GBPPLN.fx	9:30:00 AM	4.73571	4.74214			N/A
6/28/2019	GBPPLN.fx	11:30:00 AM	4.7335	4.73595			N/A
6/28/2019	GBPPLN.fx	1:30:00 PM	4.73164	4.73804			N/A
6/28/2019	GBPPLN.fx	3:30:00 PM	4.73683	4.74209			N/A
6/28/2019	GBPSEK	9:30:00 AM	11.7474	11.7561			N/A
6/28/2019	GBPSEK	11:30:00 AM	11.7421	11.7433			N/A
6/28/2019	GBPSEK	1:30:00 PM	11.7351	11.745			N/A
6/28/2019	GBPSEK	3:30:00 PM	11.7822	11.7908			N/A
6/28/2019	GBPSEK.fx	9:30:00 AM	11.74345	11.76004			N/A
6/28/2019	GBPSEK.fx	11:30:00 AM	11.73829	11.74688			N/A
6/28/2019	GBPSEK.fx	1:30:00 PM	11.73186	11.74857			N/A
6/28/2019	GBPSEK.fx	3:30:00 PM	11.77808	11.79452			N/A
6/28/2019	GBPSGD	9:30:00 AM	1.7145	1.7151			N/A
6/28/2019	GBPSGD	11:30:00 AM	1.715	1.7139			N/A
6/28/2019	GBPSGD	1:30:00 PM	1.7145	1.7151			N/A
6/28/2019	GBPSGD	3:30:00 PM	1.7171	1.7175			N/A
6/28/2019	GBPSGD.fx	9:30:00 AM	1.71265	1.71688			N/A
6/28/2019	GBPSGD.fx	11:30:00 AM	1.71314	1.71577			N/A
6/28/2019	GBPSGD.fx	1:30:00 PM	1.71264	1.71694			N/A
6/28/2019	GBPSGD.fx	3:30:00 PM	1.71493	1.71928			N/A
6/28/2019	GBPUSD	9:30:00 AM	1.26732	1.26723			N/A
6/28/2019	GBPUSD	11:30:00 AM	1.26817	1.2669		10000	N/A
6/28/2019	GBPUSD	1:30:00 PM	1.26763	1.26759			N/A
6/28/2019	GBPUSD	3:30:00 PM	1.26949	1.26924			N/A

6/28/2019	GBPUSD.fx	9:30:00 AM	1.26737	1.26717			N/A
6/28/2019	GBPUSD.fx	11:30:00 AM	1.26822	1.26684			N/A
6/28/2019	GBPUSD.fx	1:30:00 PM	1.26768	1.26754			N/A
6/28/2019	GBPUSD.fx	3:30:00 PM	1.26951	1.26918			N/A
6/28/2019	GBPZAR	9:30:00 AM	17.8886	17.9182			N/A
6/28/2019	GBPZAR	11:30:00 AM	17.9271	17.9406			N/A
6/28/2019	GBPZAR	1:30:00 PM	17.9605	17.9837			N/A
6/28/2019	GBPZAR	3:30:00 PM	17.9744	17.9994			N/A
6/28/2019	GBPZAR.fx	9:30:00 AM	17.8956	17.9115			N/A
6/28/2019	GBPZAR.fx	11:30:00 AM	17.9342	17.9333			N/A
6/28/2019	GBPZAR.fx	1:30:00 PM	17.9681	17.9769			N/A
6/28/2019	GBPZAR.fx	3:30:00 PM	17.9796	17.9925			N/A
6/28/2019	GOLD	9:30:00 AM	1415.67	1415.14			N/A
6/28/2019	GOLD	11:30:00 AM	1413.88	1413.85			N/A
6/28/2019	GOLD	1:30:00 PM	1413.36	1413.51			N/A
6/28/2019	GOLD	3:30:00 PM	1414.51	1413.16			N/A
6/28/2019	HKDJPY	9:30:00 AM	13.8	13.8			N/A
6/28/2019	HKDJPY	11:30:00 AM	13.79	13.8			N/A
6/28/2019	HKDJPY	1:30:00 PM	13.79	13.79			N/A
6/28/2019	HKDJPY	3:30:00 PM	13.8	13.8			N/A
6/28/2019	HKDJPY.fx	9:30:00 AM	13.79	13.791			N/A
6/28/2019	HKDJPY.fx	11:30:00 AM	13.786	13.792			N/A
6/28/2019	HKDJPY.fx	1:30:00 PM	13.78	13.788			N/A
6/28/2019	HKDJPY.fx	3:30:00 PM	13.794	13.798			N/A
6/28/2019	HUFJPY	9:30:00 AM	0.3782	0.3785			N/A
6/28/2019	HUFJPY	11:30:00 AM	0.3789	0.3791			N/A
6/28/2019	HUFJPY	1:30:00 PM	0.3789	0.3792			N/A
6/28/2019	HUFJPY	3:30:00 PM	0.3795	0.3798			N/A
6/28/2019	JP225.i	9:30:00 AM	21242.64	21252.64			N/A
6/28/2019	JP225.i	11:30:00 AM	21267.64	21274.31			N/A
6/28/2019	JP225.i	1:30:00 PM					N/A
6/28/2019	JP225.i	3:30:00 PM	21265.14	21282.64			N/A
6/28/2019	MXNJPY	9:30:00 AM	5.62	5.62			N/A
6/28/2019	MXNJPY	11:30:00 AM	5.62	5.62			N/A

6/28/2019	MXNJPY	1:30:00 PM					N/A
6/28/2019	MXNJPY	3:30:00 PM	5.63	5.63			N/A
6/28/2019	NASDAQ.i	9:30:00 AM					N/A
6/28/2019	NASDAQ.i	11:30:00 AM					N/A
6/28/2019	NASDAQ.i	1:30:00 PM					N/A
6/28/2019	NASDAQ.i	3:30:00 PM					N/A
6/28/2019	NOKJPY	9:30:00 AM	12.64	12.67			N/A
6/28/2019	NOKJPY	11:30:00 AM	12.63	12.66			N/A
6/28/2019	NOKJPY	1:30:00 PM	12.63	12.66			N/A
6/28/2019	NOKJPY	3:30:00 PM	12.64	12.67			N/A
6/28/2019	NOKJPY.fx	9:30:00 AM	12.654	12.656			N/A
6/28/2019	NOKJPY.fx	11:30:00 AM	12.644	12.646			N/A
6/28/2019	NOKJPY.fx	1:30:00 PM	12.64	12.648			N/A
6/28/2019	NOKJPY.fx	3:30:00 PM	12.644	12.652			N/A
6/28/2019	NZDCAD	9:30:00 AM	0.87745	0.87796			N/A
6/28/2019	NZDCAD	11:30:00 AM	0.8775	0.87818			N/A
6/28/2019	NZDCAD	1:30:00 PM	0.87797	0.87861			N/A
6/28/2019	NZDCAD	3:30:00 PM	0.87776	0.87752			N/A
6/28/2019	NZDCAD.fx	9:30:00 AM	0.87778	0.87761			N/A
6/28/2019	NZDCAD.fx	11:30:00 AM	0.87784	0.87784			N/A
6/28/2019	NZDCAD.fx	1:30:00 PM	0.87832	0.87827			N/A
6/28/2019	NZDCAD.fx	3:30:00 PM	0.87808	0.87724			N/A
6/28/2019	NZDCHF	9:30:00 AM	0.65337	0.65398			N/A
6/28/2019	NZDCHF	11:30:00 AM	0.65301	0.65367			N/A
6/28/2019	NZDCHF	1:30:00 PM	0.65376	0.65438			N/A
6/28/2019	NZDCHF	3:30:00 PM	0.65439	0.65505			N/A
6/28/2019	NZDCHF.fx	9:30:00 AM	0.65371	0.65363			N/A
6/28/2019	NZDCHF.fx	11:30:00 AM	0.65335	0.65333			N/A
6/28/2019	NZDCHF.fx	1:30:00 PM	0.6541	0.65402			N/A
6/28/2019	NZDCHF.fx	3:30:00 PM	0.65471	0.6547			N/A
6/28/2019	NZDCZK	9:30:00 AM	14.987	14.991			N/A
6/28/2019	NZDCZK	11:30:00 AM	14.958	14.968			N/A
6/28/2019	NZDCZK	1:30:00 PM	14.973	14.981			N/A
6/28/2019	NZDCZK	3:30:00 PM	14.98	14.991			N/A

6/28/2019	NZDDKK	9:30:00 AM	4.399	4.403			N/A
6/28/2019	NZDDKK	11:30:00 AM					N/A
6/28/2019	NZDDKK	1:30:00 PM	4.397	4.4			N/A
6/28/2019	NZDDKK	3:30:00 PM	4.398	4.401			N/A
6/28/2019	NZDHKD	9:30:00 AM	5.233	5.235			N/A
6/28/2019	NZDHKD	11:30:00 AM	5.2312	5.2342			N/A
6/28/2019	NZDHKD	1:30:00 PM	5.2351	5.2372			N/A
6/28/2019	NZDHKD	3:30:00 PM	5.2369	5.2397			N/A
6/28/2019	NZDHUF	9:30:00 AM	190.77	191.05			N/A
6/28/2019	NZDHUF	11:30:00 AM	190.36	190.62			N/A
6/28/2019	NZDHUF	1:30:00 PM	190.47	190.73			N/A
6/28/2019	NZDHUF	3:30:00 PM	190.38	190.58			N/A
6/28/2019	NZDJPY	9:30:00 AM	72.184	72.242			N/A
6/28/2019	NZDJPY	11:30:00 AM	72.163	72.227			N/A
6/28/2019	NZDJPY	1:30:00 PM	72.175	72.244			N/A
6/28/2019	NZDJPY	3:30:00 PM	72.273	72.33			N/A
6/28/2019	NZDJPY.fx	9:30:00 AM	72.215	72.21			N/A
6/28/2019	NZDJPY.fx	11:30:00 AM	72.195	72.195			N/A
6/28/2019	NZDJPY.fx	1:30:00 PM	72.207	72.21			N/A
6/28/2019	NZDJPY.fx	3:30:00 PM	72.304	72.298			N/A
6/28/2019	NZDMXN	9:30:00 AM	12.8517	12.8554			N/A
6/28/2019	NZDMXN	11:30:00 AM	12.8502	12.8559			N/A
6/28/2019	NZDMXN	1:30:00 PM	12.8858	12.8907			N/A
6/28/2019	NZDMXN	3:30:00 PM	12.8509	12.8517			N/A
6/28/2019	NZDNOK	9:30:00 AM	5.7034	5.7059			N/A
6/28/2019	NZDNOK	11:30:00 AM	5.7033	5.7059			N/A
6/28/2019	NZDNOK	1:30:00 PM	5.7085	5.7109			N/A
6/28/2019	NZDNOK	3:30:00 PM	5.7122	5.7142			N/A
6/28/2019	NZDPLN	9:30:00 AM	2.5063	2.5074			N/A
6/28/2019	NZDPLN	11:30:00 AM	2.503	2.5038			N/A
6/28/2019	NZDPLN	1:30:00 PM	2.5046	2.5054			N/A
6/28/2019	NZDPLN	3:30:00 PM	2.5029	2.5044			N/A
6/28/2019	NZDSEK	9:30:00 AM	6.212	6.2177			N/A
6/28/2019	NZDSEK	11:30:00 AM	6.2066	6.2126			N/A

6/28/2019	NZDSEK	1:30:00 PM	6.2082	6.2136			N/A
6/28/2019	NZDSEK	3:30:00 PM	6.2247	6.2309			N/A
6/28/2019	NZDSGD	9:30:00 AM	0.907	0.9075			N/A
6/28/2019	NZDSGD	11:30:00 AM	0.9068	0.9073			N/A
6/28/2019	NZDSGD	1:30:00 PM	0.9072	0.9078			N/A
6/28/2019	NZDSGD	3:30:00 PM	0.9076	0.9081			N/A
6/28/2019	NZDSGD.fx	9:30:00 AM	0.90698	0.90741			N/A
6/28/2019	NZDSGD.fx	11:30:00 AM	0.90679	0.90722			N/A
6/28/2019	NZDSGD.fx	1:30:00 PM	0.90724	0.90769			N/A
6/28/2019	NZDSGD.fx	3:30:00 PM	0.90751	0.90809			N/A
6/28/2019	NZDUSD	9:30:00 AM	0.6704	0.67038			N/A
6/28/2019	NZDUSD	11:30:00 AM	0.67048	0.67055			N/A
6/28/2019	NZDUSD	1:30:00 PM	0.67076	0.67079			N/A
6/28/2019	NZDUSD	3:30:00 PM	0.67099	0.67106			N/A
6/28/2019	NZDUSD.fx	9:30:00 AM	0.67047	0.67038			N/A
6/28/2019	NZDUSD.fx	11:30:00 AM	0.67055	0.67057			N/A
6/28/2019	NZDUSD.fx	1:30:00 PM	0.67084	0.6708			N/A
6/28/2019	NZDUSD.fx	3:30:00 PM	0.67104	0.67106			N/A
6/28/2019	NZDZAR	9:30:00 AM	9.4581	9.4748			N/A
6/28/2019	NZDZAR	11:30:00 AM	9.4701	9.4879			N/A
6/28/2019	NZDZAR	1:30:00 PM	9.4975	9.5129			N/A
6/28/2019	NZDZAR	3:30:00 PM	9.4936	9.5091			N/A
6/28/2019	SEKJPY	9:30:00 AM	11.62	11.62			N/A
6/28/2019	SEKJPY	11:30:00 AM	11.62	11.63			N/A
6/28/2019	SEKJPY	1:30:00 PM	11.62	11.63			N/A
6/28/2019	SEKJPY	3:30:00 PM	11.61	11.61			N/A
6/28/2019	SEKJPY.fx	9:30:00 AM	11.607	11.622			N/A
6/28/2019	SEKJPY.fx	11:30:00 AM	11.612	11.627			N/A
6/28/2019	SEKJPY.fx	1:30:00 PM	11.613	11.631			N/A
6/28/2019	SEKJPY.fx	3:30:00 PM	11.594	11.612			N/A
6/28/2019	SGDJPY	9:30:00 AM	79.59	79.58			N/A
6/28/2019	SGDJPY	11:30:00 AM	79.61	79.59			N/A
6/28/2019	SGDJPY	1:30:00 PM	79.56	79.58			N/A
6/28/2019	SGDJPY	3:30:00 PM	79.62	79.63			N/A

6/28/2019	SILVER	9:30:00 AM	15.08	15.44			N/A
6/28/2019	SILVER	11:30:00 AM	15.03	15.4			N/A
6/28/2019	SILVER	1:30:00 PM	15.02	15.4			N/A
6/28/2019	SILVER	3:30:00 PM	15.09	15.45			N/A
6/28/2019	SPX500.i	9:30:00 AM	2931.17	2931.72			N/A
6/28/2019	SPX500.i	11:30:00 AM	2936.17	2936.72			N/A
6/28/2019	SPX500.i	1:30:00 PM					N/A
6/28/2019	SPX500.i	3:30:00 PM	2934.92	2935.72			N/A
6/28/2019	UK100.i	9:30:00 AM	7410.9	7412.15			N/A
6/28/2019	UK100.i	11:30:00 AM	7436.07	7433.65			N/A
6/28/2019	UK100.i	1:30:00 PM	7434.9	7436.65			N/A
6/28/2019	UK100.i	3:30:00 PM	7434.4	7436.65			N/A
6/28/2019	USDCAD	9:30:00 AM	1.30919	1.30915			N/A
6/28/2019	USDCAD	11:30:00 AM	1.3091	1.30915			N/A
6/28/2019	USDCAD	1:30:00 PM	1.30928	1.30924			N/A
6/28/2019	USDCAD	3:30:00 PM	1.30879	1.307	30000	30000	N/A
6/28/2019	USDCAD.fx	9:30:00 AM	1.30922	1.30911			N/A
6/28/2019	USDCAD.fx	11:30:00 AM	1.30912	1.30911			N/A
6/28/2019	USDCAD.fx	1:30:00 PM	1.30933	1.30921			N/A
6/28/2019	USDCAD.fx	3:30:00 PM	1.30875	1.30704			N/A
6/28/2019	USDCHF	9:30:00 AM	0.97497	0.97503			N/A
6/28/2019	USDCHF	11:30:00 AM	0.9743	0.97431			N/A
6/28/2019	USDCHF	1:30:00 PM	0.97506	0.97502			N/A
6/28/2019	USDCHF	3:30:00 PM	0.97564	0.97567			N/A
6/28/2019	USDCHF.fx	9:30:00 AM	0.97501	0.97496			N/A
6/28/2019	USDCHF.fx	11:30:00 AM	0.97435	0.97425			N/A
6/28/2019	USDCHF.fx	1:30:00 PM	0.97511	0.97496			N/A
6/28/2019	USDCHF.fx	3:30:00 PM	0.97569	0.97561			N/A
6/28/2019	USDCZK	9:30:00 AM	22.371	22.385			N/A
6/28/2019	USDCZK	11:30:00 AM	22.327	22.345			N/A
6/28/2019	USDCZK	1:30:00 PM	22.334	22.356			N/A
6/28/2019	USDCZK	3:30:00 PM	22.344	22.365			N/A
6/28/2019	USDCZK.fx	9:30:00 AM	22.3776	22.3759			N/A
6/28/2019	USDCZK.fx	11:30:00 AM	22.3361	22.3359			N/A

6/28/2019	USDCZK.fx	1:30:00 PM	22.3427	22.347			N/A
6/28/2019	USDCZK.fx	3:30:00 PM	22.353	22.3552			N/A
6/28/2019	USDDKK	9:30:00 AM	6.5634	6.5673			N/A
6/28/2019	USDDKK	11:30:00 AM	6.5548	6.557			N/A
6/28/2019	USDDKK	1:30:00 PM	6.5563	6.5596			N/A
6/28/2019	USDDKK	3:30:00 PM	6.5565	6.5597			N/A
6/28/2019	USDDKK.fx	9:30:00 AM	6.56403	6.56521			N/A
6/28/2019	USDDKK.fx	11:30:00 AM	6.55524	6.55492			N/A
6/28/2019	USDDKK.fx	1:30:00 PM	6.55678	6.55756			N/A
6/28/2019	USDDKK.fx	3:30:00 PM	6.55688	6.55759			N/A
6/28/2019	USDHKD	9:30:00 AM	7.8087	7.8092			N/A
6/28/2019	USDHKD	11:30:00 AM	7.8067	7.8068			N/A
6/28/2019	USDHKD	1:30:00 PM	7.8079	7.8083			N/A
6/28/2019	USDHKD	3:30:00 PM	7.8086	7.808			N/A
6/28/2019	USDHKD.fx	9:30:00 AM	7.80865	7.80923			N/A
6/28/2019	USDHKD.fx	11:30:00 AM	7.80658	7.80717			N/A
6/28/2019	USDHKD.fx	1:30:00 PM	7.80788	7.80838			N/A
6/28/2019	USDHKD.fx	3:30:00 PM	7.80846	7.8088			N/A
6/28/2019	USDHUF	9:30:00 AM	284.69	285.12			N/A
6/28/2019	USDHUF	11:30:00 AM	284.18	284.53			N/A
6/28/2019	USDHUF	1:30:00 PM	284.05	284.51			N/A
6/28/2019	USDHUF	3:30:00 PM	283.87	284.3			N/A
6/28/2019	USDHUF.fx	9:30:00 AM	284.875	284.95			N/A
6/28/2019	USDHUF.fx	11:30:00 AM	284.375	284.315			N/A
6/28/2019	USDHUF.fx	1:30:00 PM	284.253	284.306			N/A
6/28/2019	USDHUF.fx	3:30:00 PM	284.082	284.107			N/A
6/28/2019	USDINR	9:30:00 AM	63.92	73.92			N/A
6/28/2019	USDINR	11:30:00 AM	63.93	73.93			N/A
6/28/2019	USDINR	1:30:00 PM					N/A
6/28/2019	USDINR	3:30:00 PM					N/A
6/28/2019	USDJPY	9:30:00 AM	107.726	107.69			N/A
6/28/2019	USDJPY	11:30:00 AM	107.664	107.666			N/A
6/28/2019	USDJPY	1:30:00 PM	107.642	107.648			N/A
6/28/2019	USDJPY	3:30:00 PM	107.752	107.732			N/A

6/28/2019	USDJPY.fx	9:30:00 AM	107.731	107.683			N/A
6/28/2019	USDJPY.fx	11:30:00 AM	107.67	107.658			N/A
6/28/2019	USDJPY.fx	1:30:00 PM	107.648	107.641			N/A
6/28/2019	USDJPY.fx	3:30:00 PM	107.757	107.726			N/A
6/28/2019	USDMXN	9:30:00 AM	19.178	19.185			N/A
6/28/2019	USDMXN	11:30:00 AM	19.175	19.179			N/A
6/28/2019	USDMXN	1:30:00 PM	19.216	19.224			N/A
6/28/2019	USDMXN	3:30:00 PM	19.162	19.162			N/A
6/28/2019	USDMXN.f	9:30:00 AM					N/A
6/28/2019	USDMXN.f	11:30:00 AM					N/A
6/28/2019	USDMXN.f	1:30:00 PM					N/A
6/28/2019	USDMXN.f	3:30:00 PM					N/A
6/28/2019	USDNOK	9:30:00 AM	8.5079	8.5159			N/A
6/28/2019	USDNOK	11:30:00 AM	8.5121	8.5166			N/A
6/28/2019	USDNOK	1:30:00 PM	8.5102	8.5184			N/A
6/28/2019	USDNOK	3:30:00 PM	8.5156	8.5232			N/A
6/28/2019	USDNOK.fx	9:30:00 AM	8.5118	8.51141			N/A
6/28/2019	USDNOK.fx	11:30:00 AM	8.5161	8.51199			N/A
6/28/2019	USDNOK.fx	1:30:00 PM	8.51417	8.51371			N/A
6/28/2019	USDNOK.fx	3:30:00 PM	8.51962	8.51878			N/A
6/28/2019	USDPLN	9:30:00 AM	3.7389	3.7403			N/A
6/28/2019	USDPLN	11:30:00 AM	3.7352	3.7359			N/A
6/28/2019	USDPLN	1:30:00 PM	3.7345	3.7358			N/A
6/28/2019	USDPLN	3:30:00 PM	3.7343	3.7341			N/A
6/28/2019	USDPLN.fx	9:30:00 AM	3.73808	3.74122			N/A
6/28/2019	USDPLN.fx	11:30:00 AM	3.73444	3.73671			N/A
6/28/2019	USDPLN.fx	1:30:00 PM	3.73368	3.73661			N/A
6/28/2019	USDPLN.fx	3:30:00 PM	3.73268	3.73489			N/A
6/28/2019	USDRUB	9:30:00 AM					N/A
6/28/2019	USDRUB	11:30:00 AM	62.927	63.302			N/A
6/28/2019	USDRUB	1:30:00 PM	62.863	63.251			N/A
6/28/2019	USDRUB	3:30:00 PM	62.712	63.096			N/A
6/28/2019	USDSEK	9:30:00 AM	9.271	9.2752			N/A
6/28/2019	USDSEK	11:30:00 AM	9.2637	9.265			N/A

6/28/2019	USDSEK	1:30:00 PM	9.2594	9.263			N/A
6/28/2019	USDSEK	3:30:00 PM	9.2837	9.287			N/A
6/28/2019	USDSEK.fx	9:30:00 AM	9.27347	9.27356			N/A
6/28/2019	USDSEK.fx	11:30:00 AM	9.26635	9.26312			N/A
6/28/2019	USDSEK.fx	1:30:00 PM	9.26199	9.26108			N/A
6/28/2019	USDSEK.fx	3:30:00 PM	9.28618	9.28506			N/A
6/28/2019	USDSGD	9:30:00 AM	1.3531	1.3534			N/A
6/28/2019	USDSGD	11:30:00 AM	1.3525	1.3528			N/A
6/28/2019	USDSGD	1:30:00 PM	1.3526	1.353			N/A
6/28/2019	USDSGD	3:30:00 PM	1.3527	1.353			N/A
6/28/2019	USDSGD.fx	9:30:00 AM	1.35298	1.35336			N/A
6/28/2019	USDSGD.fx	11:30:00 AM	1.35248	1.35284			N/A
6/28/2019	USDSGD.fx	1:30:00 PM	1.35252	1.35301			N/A
6/28/2019	USDSGD.fx	3:30:00 PM	1.35258	1.35303			N/A
6/28/2019	USDZAR	9:30:00 AM	14.1189	14.1367			N/A
6/28/2019	USDZAR	11:30:00 AM	14.1401	14.1577			N/A
6/28/2019	USDZAR	1:30:00 PM	14.1706	14.1855			N/A
6/28/2019	USDZAR	3:30:00 PM	14.1599	14.1792			N/A
6/28/2019	USDZAR.fx	9:30:00 AM	14.12447	14.1313			N/A
6/28/2019	USDZAR.fx	11:30:00 AM	14.14614	14.15162			N/A
6/28/2019	USDZAR.fx	1:30:00 PM	14.17619	14.17982			N/A
6/28/2019	USDZAR.fx	3:30:00 PM	14.16623	14.17352			N/A
6/28/2019	XAUUSD	9:30:00 AM	1415.7	1415.14			N/A
6/28/2019	XAUUSD	11:30:00 AM	1413.88	1413.85			N/A
6/28/2019	XAUUSD	1:30:00 PM	1413.36	1413.51			N/A
6/28/2019	XAUUSD	3:30:00 PM	1414.52	1413.15			N/A
6/28/2019	ZARJPY	9:30:00 AM	7.61	7.63			N/A
6/28/2019	ZARJPY	11:30:00 AM	7.59	7.61			N/A
6/28/2019	ZARJPY	1:30:00 PM	7.58	7.59			N/A
6/28/2019	ZARJPY	3:30:00 PM	7.59	7.61			N/A
6/28/2019	ZARJPY.fx	9:30:00 AM	7.621	7.626			N/A
6/28/2019	ZARJPY.fx	11:30:00 AM	7.607	7.612			N/A
6/28/2019	ZARJPY.fx	1:30:00 PM	7.591	7.594			N/A
6/28/2019	ZARJPY.fx	3:30:00 PM	7.601	7.606			N/A