

2019 WHEAT			
DATE	CASH	FUTURES	BASIS
12/31/2020	4.51	4.600	(0.35)
12/30/2019	4.46	4.550	(0.35)
12/27/2019	4.44	4.530	(0.36)
12/26/2019	4.35	4.450	(0.35)
12/24/2019	4.25	4.360	(0.35)
12/23/2019	4.23	4.350	(0.36)
12/20/2019	4.27	4.360	(0.35)
12/19/2019	4.26	4.330	(0.35)
12/18/2019	4.28	4.350	(0.34)
12/17/2019	4.3	4.370	(0.37)
12/16/2019	4.26	4.320	(0.36)
12/13/2019	4.07	4.130	(0.36)
12/12/2019	4.07	4.130	(0.36)
12/11/2019	3.95	4.030	(0.36)
12/10/2019	3.95	4.050	(0.36)
12/9/2019	3.90	4.000	(0.36)
12/6/2019	3.95	4.050	(0.36)
12/5/2019	4.00	4.070	(0.36)
12/4/2019	4.03	4.120	(0.38)
12/3/2019	3.98	4.070	(0.39)
12/2/2019	4.00	4.100	(0.39)
11/28/2019	4.06	4.170	(0.41)
11/27/2019	3.95	4.070	(0.43)
11/26/2019	4.01	4.120	(0.32)
11/25/2019	4.04	4.150	(0.32)
11/22/2019	3.93	4.030	(0.31)
11/20/2019	3.94	4.030	(0.32)
11/19/2019	3.93	4.010	(0.33)
11/18/2019	3.86	3.960	(0.33)
11/15/2019	3.84	3.960	(0.33)
11/14/2019	3.87	4.000	(0.35)
11/13/2019	3.90	4.020	(0.35)
11/12/2019	4.05	4.140	(0.34)
11/11/2019	3.88	3.970	(0.35)
11/8/2019	3.85	4.000	(0.37)
11/7/2019	3.88	4.020	(0.37)
11/6/2019	3.91	4.070	(0.37)
11/5/2019	3.92	4.090	(0.37)
11/4/2019	3.86	4.070	(0.37)
11/1/2019	3.90	4.100	(0.36)
10/31/2019	3.84	4.020	(0.36)
10/30/2019	3.83	4.020	(0.35)
10/29/2019	3.84	4.040	(0.35)
10/28/2019	3.82	4.020	(0.35)
10/25/2019	3.87	4.070	(0.36)
10/24/2019	3.84	4.050	(0.36)
10/23/2019	3.88	4.100	(0.35)
10/22/2019	3.87	4.070	(0.34)
10/21/2019	3.91	4.100	(0.35)
10/18/2019	4.00	4.170	(0.34)
10/17/2019	3.96	4.150	(0.35)
10/16/2019	3.90	4.100	(0.35)
10/15/2019	3.85	4.060	(0.36)
10/14/2019	3.90	4.090	(0.36)
10/11/2019	3.85	4.030	(0.35)
10/10/2019	3.70	3.900	(0.33)
10/9/2019	3.80	4.000	(0.33)
10/8/2019	3.76	4.000	(0.34)
10/7/2019	3.68	3.900	(0.34)
10/4/2019	3.70	3.910	(0.34)
10/3/2019	3.70	3.930	(0.36)
10/2/2019	3.70	3.910	(0.36)
10/1/2019	3.77	3.950	(0.35)
9/30/2019	3.80	4.000	(0.35)
9/27/2019	3.74	3.940	(0.34)
9/26/2019	3.74	3.950	(0.34)
9/25/2019	3.70	3.920	(0.34)
9/24/2019	3.71	3.930	(0.34)
9/23/2019	3.69	3.930	(0.38)
9/20/2019	3.70	3.950	(0.38)
9/19/2019	3.72	3.970	(0.38)
9/18/2019	3.72	3.970	(0.38)
9/17/2019	3.62	3.910	(0.40)
9/16/2019	3.69	3.970	(0.40)
9/13/2019	3.60	3.890	(0.40)
9/12/2019	3.63	3.920	(0.41)
9/11/2019	3.55	3.870	(0.44)
9/10/2019	3.60	3.910	(0.44)
9/9/2019	3.53	3.860	(0.45)
9/6/2019	3.48	3.820	(0.45)
9/5/2019	3.48	3.800	(0.46)
9/4/2019	3.38	3.750	(0.47)
9/3/2019	3.36	3.750	(0.46)
8/30/2019	3.51	3.870	(0.46)
8/29/2019	3.57	3.900	(0.45)
8/28/2019	3.60	3.910	(0.44)
8/27/2019	3.61	3.920	(0.44)
8/26/2019	3.58	3.910	(0.31)
8/23/2019	3.61	3.940	(0.31)
8/22/2019	3.62	3.930	(0.31)
8/21/2019	3.56	3.900	(0.30)
8/20/2019	3.56	3.910	(0.31)
8/19/2019	3.60	3.960	(0.31)
8/16/2019	3.63	4.000	(0.31)
8/15/2019	3.58	3.940	(0.32)
8/14/2019	3.52	3.900	(0.33)
8/13/2019	3.51	3.920	(0.33)

2019 SOYBEANS			
DATE	CASH	FUTURES	BASIS
12/31/2020	8.64	8.800	(0.79)
12/30/2019	8.6	8.770	(0.80)
12/27/2019	8.5	8.700	(0.80)
12/26/2019	8.57	8.730	(0.81)
12/24/2019	8.55	8.700	(0.81)
12/23/2019	8.52	8.680	(0.82)
12/20/2019	8.46	8.650	(0.82)
12/19/2019	8.42	8.650	(0.83)
12/18/2019	8.46	8.670	(0.83)
12/17/2019	8.44	8.650	(0.85)
12/16/2019	8.35	8.600	(0.87)
12/15/2019	8.21	8.480	(0.87)
12/6/2019	8.12	8.400	(0.86)
12/7/2019	8.38	8.070	(0.87)
12/8/2019	8.14	8.430	(0.87)
12/9/2019	8.08	8.400	(0.89)
12/6/2019	8.00	8.350	(0.90)
12/5/2019	7.95	8.300	(0.89)
12/4/2019	7.90	8.280	(0.88)
12/3/2019	7.80	8.260	(0.91)
12/2/2019	7.80	8.250	(0.91)
11/28/2019	7.85	8.270	(0.92)
11/27/2019	7.90	8.300	(0.92)
11/26/2019	7.90	8.300	(0.94)
11/25/2019	7.95	8.370	(0.98)
11/22/2019	8.00	8.370	(0.97)
11/20/2019	8.07	8.440	(0.98)
11/19/2019	8.13	8.450	(0.99)
11/18/2019	8.12	8.420	(0.98)
11/15/2019	8.20	8.480	(0.98)
11/14/2019	8.16	8.470	(1.01)
11/13/2019	8.14	8.500	(1.01)
11/12/2019	8.16	8.520	(1.01)
11/11/2019	8.16	8.520	(1.01)
11/8/2019	8.30	8.620	(1.01)
11/7/2019	8.34	8.670	(1.03)
11/6/2019	8.23	8.620	(1.05)
11/5/2019	8.28	8.660	(1.06)
11/4/2019	8.32	8.690	(1.06)
11/1/2019	8.30	8.670	(0.94)
10/31/2019	8.21	8.620	(0.96)
10/30/2019	8.20	8.600	(0.96)
10/29/2019	8.20	8.630	(0.98)
10/28/2019	8.24	8.630	(0.97)
10/25/2019	8.23	8.600	(0.97)
10/24/2019	8.35	8.670	(0.98)
10/23/2019	8.36	8.650	(0.98)
10/22/2019	8.36	8.660	(0.98)
10/21/2019	8.35	8.660	(0.98)
10/18/2019	8.36	8.660	(0.98)
10/17/2019	8.35	8.650	(0.97)
10/16/2019	8.33	8.650	(0.95)
10/15/2019	8.37	8.680	(0.97)
10/14/2019	8.43	8.700	(0.98)
10/11/2019	8.40	8.400	(0.96)
10/10/2019	8.30	8.300	(0.94)
10/9/2019	8.27	8.270	(0.97)
10/8/2019	8.22	8.220	(0.99)
10/7/2019	8.15	8.150	(1.00)
10/4/2019	8.16	8.160	(1.00)
10/3/2019	8.12	8.120	(1.00)
10/2/2019	8.15	8.150	(0.99)
10/1/2019	8.20	8.200	(1.00)
9/30/2019	8.04	8.040	(1.02)
9/27/2019	7.81	7.810	(1.02)
9/26/2019	7.85	7.850	(1.04)
9/25/2019	7.87	7.870	(1.02)
9/24/2019	7.90	7.900	(1.04)
9/23/2019	7.85	7.900	(1.08)
9/20/2019	7.74	7.800	(1.09)
9/19/2019	7.84	7.900	(1.09)
9/18/2019	7.80	7.850	(1.09)
9/17/2019	7.87	7.920	(1.07)
9/14/2019	7.93	8.000	(1.07)
9/13/2019	7.92	8.000	(1.07)
9/12/2019	7.90	7.960	(1.06)
9/11/2019	7.60	7.670	(1.07)
9/10/2019	7.64	7.710	(1.08)
9/9/2019	7.50	7.570	(1.08)
9/6/2019	7.50	7.570	(1.08)
9/5/2019	7.51	7.610	(1.11)
9/4/2019	7.65	7.750	(1.11)
9/3/2019	7.58	7.680	(1.11)
8/30/2019	7.56	7.680	(1.13)
8/29/2019	7.56	7.680	(1.13)
8/28/2019	7.53	7.650	(1.12)
8/27/2019	7.47	7.600	(1.12)
8/26/2019	7.55	7.670	(1.12)
8/23/2019	7.43	7.570	(1.14)
8/22/2019	7.56	7.690	(1.13)
8/21/2019	7.60	7.730	(1.13)
8/20/2019	7.52	7.700	(1.13)
8/19/2019	7.52	7.670	(1.15)
8/16/2019	7.65	7.800	(1.15)
8/15/2019	7.55	7.710	(1.16)
8/14/2019	7.60	7.780	(1.18)
8/13/2019	7.70	7.900	(1.19)

2019 CORN			
DATE	CASH	FUTURES	BASIS
12/31/2020	3.63	3.660	(0.25)
12/30/2019	3.63	3.660	(0.25)
12/27/2019	3.63	3.660	(0.27)
12/26/2019	3.62	3.660	(0.26)
12/24/2019	3.62	3.660	(0.25)
12/23/2019	3.62	3.660	(0.27)
12/20/2019	3.61	3.660	(0.27)
12/19/2019	3.60	3.650	(0.27)
12/18/2019	3.60	3.640	(0.27)
12/17/2019	3.62	3.640	(0.28)
12/16/2019	3.60	3.620	(0.28)
12/13/2019	3.53	3.570	(0.28)
12/12/2019	3.50	3.550	(0.28)
12/11/2019	3.44	3.500	(0.27)
12/10/2019	3.48	3.540	(0.29)
12/9/2019	3.45	3.500	(0.31)
12/6/2019	3.45	3.500	(0.32)
12/5/2019	3.44	3.500	(0.33)
12/4/2019	3.45	3.520	(0.36)
12/3/2019	3.45	3.520	(0.36)
12/2/2019	3.45	3.520	(0.37)
11/28/2019	3.44	3.520	(0.37)
11/27/2019	3.36	3.500	(0.37)
11/26/2019	3.42	3.530	(0.26)
11/25/2019	3.44	3.550	(0.27)
11/22/2019	3.42	3.520	(0.27)
11/20/2019	3.40	3.550	(0.27)
11/19/2019	3.42	3.570	(0.28)
11/18/2019	3.40	3.550	(0.28)
11/15/2019	3.42	3.560	(0.29)
11/14/2019	3.47	3.590	(0.29)
11/13/2019	3.46	3.580	(0.29)
11/12/2019	3.47	3.600	(0.31)
11/11/2019	3.41	3.57	(0.32)
11/8/2019	3.45	3.600	(0.32)
11/7/2019	3.43	3.580	(0.32)
11/6/2019	3.47	3.600	(0.32)
11/5/2019	3.50	3.600	(0.32)
11/4/2019	3.52	3.620	(0.31)
11/1/2019	3.60	3.640	(0.29)
10/31/2019	3.60	3.640	(0.30)
10/30/2019	3.60	3.640	(0.31)
10/29/2019	3.55	3.640	(0.31)
10/28/2019	3.53	3.630	(0.31)
10/25/2019	3.56	3.650	(0.31)
10/24/2019	3.56	3.650	(0.31)
10/23/2019	3.56	3.660	(0.32)
10/22/2019	3.56	3.660	(0.32)
10/21/2019	3.56	3.660	(0.31)
10/18/2019	3.60	3.680	(0.31)
10/17/2019	3.64	3.680	(0.31)
10/16/2019	3.62	3.670	(0.30)
10/15/2019	3.65	3.670	(0.28)
10/14/2019	3.70	3.680	(0.28)
10/11/2019	3.70	3.700	(0.28)
10/10/2019	3.52</		

8/12/2019	3.60	4.000	(0.32)
8/9/2019	3.83	4.200	(0.34)
8/8/2019	3.84	4.210	(0.35)
8/7/2019	3.84	4.230	(0.34)
8/6/2019	3.84	4.200	(0.34)
8/5/2019	3.93	4.280	(0.34)
8/2/2019	3.88	4.230	(0.34)
8/1/2019	3.82	4.190	(0.34)
7/31/2019	3.90	4.220	(0.33)
7/30/2019	4.00	4.320	(0.34)
7/29/2019	4.03	4.340	(0.34)
7/26/2019	4.00	4.330	(0.32)
7/25/2019	4.04	4.380	(0.34)
7/24/2019	4.06	4.400	(0.34)
7/23/2019	3.98	4.350	(0.34)
7/22/2019	3.96	4.360	(0.33)
7/19/2019	4.07	4.450	(0.33)
7/18/2019	4.01	4.400	(0.32)
7/17/2019	4.10	4.480	(0.32)
7/16/2019	4.15	4.520	(0.31)
7/15/2019	4.18	4.540	(0.31)
7/12/2019	4.35	4.670	(0.32)
7/11/2019	4.30	4.660	(0.32)
7/10/2019	4.09	4.500	(0.33)
7/9/2019	4.05	4.490	(0.34)
7/8/2019	4.08	4.510	(0.33)
7/5/2019	4.11	4.550	(0.34)
7/3/2019	4.09	4.550	(0.35)
7/2/2019	3.98	4.460	(0.35)
7/1/2019	4.09	4.570	(0.35)
6/28/2019	4.20	4.700	(0.42)
6/27/2019	4.37	4.860	(0.45)
6/26/2019	4.39	4.880	(0.30)
6/25/2019	4.34	4.850	(0.31)
6/24/2019	4.35	4.350	(0.31)
6/21/2019	4.22	4.220	(0.31)
6/20/2019	4.30	4.300	(0.31)
6/19/2019	4.26	4.260	(0.32)
6/18/2019	4.34	4.340	(0.30)
6/17/2019	4.45	4.450	(0.31)
6/14/2019	4.47	4.470	(0.29)
6/13/2019	4.35	4.350	(0.33)
6/12/2019	4.30	4.300	(0.33)
6/11/2019	4.25	4.250	(0.33)
6/10/2019	4.23	4.230	(0.30)
6/7/2019	4.18	4.180	(0.31)
6/6/2019	4.24	4.240	(0.31)
6/5/2019	4.15	4.150	(0.31)
6/4/2019	4.38	4.380	(0.31)
6/3/2019	4.57	4.570	(0.30)
5/31/2019	4.43	4.430	(0.30)
5/30/2019	4.53	4.530	(0.26)
5/29/2019	4.27	4.270	(0.26)
5/28/2019	4.35	4.350	(0.26)
5/24/2019	4.14	4.140	(0.28)
5/23/2019	3.98	3.980	(0.27)
5/22/2019	4.05	4.050	(0.27)
5/21/2019	4.09	4.080	(0.27)
5/20/2019	4.09	4.060	(0.26)
5/17/2019	3.94	3.940	(0.26)
5/16/2019	3.91	3.900	(0.26)
5/15/2019	3.77	3.750	(0.25)
5/14/2019	3.84	3.810	(0.25)
5/13/2019	3.72	3.720	(0.25)
5/10/2019	3.62	6.620	(0.25)
5/9/2019	3.72	3.720	(0.26)
5/8/2019	3.78	3.770	(0.26)
5/7/2019	3.78	3.770	(0.26)
5/6/2019	3.77	3.760	(0.26)
5/3/2019	3.76	3.750	(0.26)
5/2/2019	3.80	3.800	(0.25)
5/1/2019	3.75	3.740	(0.25)
4/30/2019	3.71	3.680	(0.23)
4/29/2019	3.75	3.710	(0.22)
4/26/2019	3.85	3.810	(0.15)
4/25/2019	3.89	3.850	(0.15)
4/24/2019	3.90	3.850	(0.15)
4/23/2019	3.98	3.950	(0.17)
4/22/2019	3.94	3.900	(0.18)
4/18/2019	4.00	3.980	(0.20)
4/17/2019	4.04	4.000	(0.17)
4/16/2019	4.00	3.960	(0.17)
4/15/2019	4.10	4.070	(0.17)
4/12/2019	4.17	4.130	(0.17)
4/11/2019	4.13	4.090	(0.18)
4/10/2019	4.08	4.050	(0.18)
4/9/2019	4.08	4.070	(0.19)
4/8/2019	4.12	4.110	(0.19)
4/5/2019	4.12	4.100	(0.19)
4/4/2019	4.20	4.180	(0.20)
4/3/2019	4.17	4.160	(0.20)
4/2/2019	4.13	4.130	(0.20)
4/1/2019	4.15	4.150	(0.20)
3/29/2019	4.10	4.100	(0.20)
3/28/2019	4.16	4.170	(0.23)
3/27/2019	4.22	4.220	(0.23)
3/26/2019	4.20	4.210	(0.23)
3/25/2019	4.26	4.280	(0.23)
3/22/2019	4.22	4.240	(0.23)
3/21/2019	4.21	4.260	(0.26)

8/12/2019	7.60	7.800	(1.19)
8/9/2019	7.70	7.900	(1.22)
8/8/2019	7.62	7.820	(1.21)
8/7/2019	7.48	7.660	(1.19)
8/6/2019	7.47	7.650	(1.19)
8/5/2019	7.50	7.680	(1.19)
8/2/2019	7.50	7.680	(1.00)
8/1/2019	7.45	7.650	(1.02)
7/31/2019	7.58	7.800	(1.06)
7/30/2019	7.76	7.960	(1.04)
7/29/2019	7.82	8.020	(1.04)
7/26/2019	7.80	8.000	(1.03)
7/25/2019	7.80	8.000	(1.03)
7/24/2019	7.86	8.080	(1.05)
7/23/2019	7.83	8.040	(1.03)
7/22/2019	7.86	8.060	(1.02)
7/19/2019	8.00	8.200	(1.01)
7/18/2019	7.80	8.000	(1.01)
7/17/2019	7.80	8.010	(1.03)
7/16/2019	7.85	8.070	(1.03)
7/15/2019	8.00	8.220	(1.02)
7/12/2019	8.10	8.340	(1.03)
7/11/2019	7.96	8.200	(1.03)
7/10/2019	7.91	8.140	(1.04)
7/9/2019	7.82	8.050	(1.04)
7/8/2019	7.75	8.000	(1.04)
7/5/2019	7.72	7.960	(1.04)
7/3/2019	7.88	8.100	(1.02)
7/2/2019	7.78	7.980	(1.02)
7/1/2019	7.88	8.080	(1.02)
6/28/2019	8.00	8.220	(1.05)
6/27/2019	7.88	8.110	(1.06)
6/26/2019	7.94	8.170	(1.00)
6/25/2019	8.04	8.250	(1.00)
6/24/2019	8.10	8.320	(1.00)
6/21/2019	8.04	8.260	(0.99)
6/20/2019	8.17	8.400	(0.99)
6/19/2019	8.05	8.260	(0.98)
6/18/2019	8.13	8.370	(1.01)
6/17/2019	8.12	8.360	(1.01)
6/14/2019	7.96	8.200	(1.00)
6/13/2019	7.88	8.130	(1.00)
6/12/2019	7.78	8.030	(1.00)
6/11/2019	7.60	7.850	(0.99)
6/10/2019	7.60	7.840	(0.99)
6/7/2019	7.57	7.820	(0.99)
6/6/2019	7.70	7.940	(0.99)
6/5/2019	7.70	7.960	(1.00)
6/4/2019	7.81	8.080	(1.01)
6/3/2019	7.78	8.050	(1.01)
5/31/2019	7.78	8.030	(1.00)
5/30/2019	7.89	8.140	(1.00)
5/29/2019	7.72	7.970	(1.00)
5/28/2019	7.56	7.810	(1.00)
5/24/2019	7.30	7.550	(1.00)
5/23/2019	7.21	7.460	(1.01)
5/22/2019	7.28	7.530	(1.01)
5/21/2019	7.22	7.470	(1.00)
5/20/2019	7.32	7.570	(1.00)
5/17/2019	7.22	7.470	(1.00)
5/16/2019	7.40	7.650	(1.00)
5/15/2019	7.37	7.600	(0.99)
5/14/2019	7.33	7.570	(0.99)
5/13/2019	7.03	7.290	(1.00)
5/10/2019	7.10	7.350	(0.99)
5/9/2019	7.10	7.380	(1.03)
5/8/2019	7.24	7.500	(1.03)
5/7/2019	7.28	7.520	(1.03)
5/6/2019	7.27	7.520	(1.03)
5/3/2019	7.36	7.620	(1.06)
5/2/2019	7.36	7.640	(1.07)
5/1/2019	7.44	7.720	(1.08)
4/30/2019	7.45	7.740	(1.09)
4/29/2019	7.52	7.800	(1.09)
4/26/2019	7.58	7.870	(0.96)
4/25/2019	7.60	7.940	(0.99)
4/24/2019	7.56	7.900	(0.99)
4/23/2019	7.63	7.970	(0.99)
4/22/2019	7.76	8.110	(1.01)
4/18/2019	7.80	8.150	(1.01)
4/17/2019	7.78	8.140	(1.01)
4/16/2019	7.87	8.230	(1.01)
4/15/2019	7.95	8.330	(1.04)
4/12/2019	7.90	8.300	(1.05)
4/11/2019	7.90	8.300	(1.05)
4/10/2019	7.96	8.370	(1.06)
4/9/2019	7.93	8.340	(1.05)
4/8/2019	7.93	8.340	(1.06)
4/5/2019	7.93	8.340	(1.06)
4/4/2019	8.00	8.400	(1.07)
4/3/2019	7.91	8.310	(1.08)
4/2/2019	7.92	8.320	(1.08)
4/1/2019	7.88	8.270	(1.08)
3/29/2019	7.77	8.180	(1.07)
3/28/2019	7.82	8.230	(1.08)
3/27/2019	7.80	8.230	(1.08)
3/26/2019	7.93	8.350	(1.08)
3/25/2019	7.98	8.400	(1.09)
3/22/2019	7.96	8.380	(1.08)
3/21/2019	8.01	8.440	(1.09)

8/12/2019	3.80	3.600	(0.05)
8/9/2019	4.02	3.830	(0.08)
8/8/2019	4.02	3.830	(0.09)
8/7/2019	4.00	3.800	(0.07)
8/6/2019	3.96	3.780	(0.08)
8/5/2019	3.97	3.800	(0.08)
8/2/2019	3.92	3.750	(0.08)
8/1/2019	3.90	3.700	(0.03)
7/31/2019	3.95	3.800	(0.05)
7/30/2019	4.05	3.850	(0.06)
7/29/2019	4.07	3.880	(0.10)
7/26/2019	4.05	3.860	(0.10)
7/25/2019	4.10	3.900	(0.09)
7/24/2019	4.14	3.940	(0.10)
7/23/2019	4.16	3.950	(0.10)
7/22/2019	4.13	3.900	(0.09)
7/19/2019	4.18	4.000	(0.13)
7/18/2019	4.13	3.940	(0.12)
7/17/2019	4.25	4.060	(0.11)
7/16/2019	4.25	4.070	(0.10)
7/15/2019	4.30	4.140	(0.11)
7/12/2019	4.40	4.260	(0.14)
7/11/2019	4.30	4.170	(0.14)
7/10/2019	4.23	4.080	(0.12)
7/9/2019	4.20	4.050	(0.13)
7/8/2019	4.25	4.120	(0.15)
7/5/2019	4.22	4.110	(0.17)
7/3/2019	4.16	4.100	(0.21)
7/2/2019	3.99	3.950	(0.20)
7/1/2019	3.95	3.910	(0.20)
6/28/2019	4.00	4.000	(0.25)
6/27/2019	4.20	4.170	(0.26)
6/26/2019	4.20	4.170	(0.23)
6/25/2019	4.20	4.170	(0.28)
6/24/2019	4.20	4.170	(0.28)
6/21/2019	4.17	4.130	(0.25)
6/20/2019	4.25	4.200	(0.25)
6/19/2019	4.16	4.100	(0.25)
6/18/2019	4.25	4.200	(0.25)
6/17/2019	4.30	4.250	(0.25)
6/14/2019	4.30	4.200	(0.23)
6/13/2019	4.18	4.120	(0.24)
6/12/2019	4.10	4.050	(0.20)
6/11/2019	4.03	4.030	(0.25)
6/10/2019	3.93	3.900	(0.23)
6/7/2019	3.90	3.900	(0.26)
6/6/2019	3.95	3.950	(0.26)
6/5/2019	3.85	3.900	(0.30)
6/4/2019	3.95	4.000	(0.30)
6/3/2019	3.94	3.980	(0.30)
5/31/2019	3.97	4.000	(0.30)
5/30/2019	4.06	4.070	(0.30)
5/29/2019	3.89	3.910	(0.30)
5/28/2019	3.90	3.920	(0.30)
5/24/2019	3.75	3.740	(0.29)
5/23/2019	3.62	3.630	(0.28)
5/22/2019	3.67	3.680	(0.28)

3/20/2019	4.18	4.230	(0.26)
3/19/2019	4.10	4.160	(0.26)
3/18/2019	4.10	4.170	(0.27)
3/15/2019	4.15	4.230	(0.28)
3/14/2019	4.08	4.150	(0.29)
3/13/2019	4.07	4.160	(0.30)
3/12/2019	4.13	4.220	(0.30)
3/11/2019	3.90	4.000	(0.30)
3/8/2019	4.00	4.100	(0.31)
3/7/2019	3.97	4.060	(0.31)
3/6/2019	4.08	4.160	(0.31)
3/5/2019	4.18	4.240	(0.33)
3/4/2019	4.10	4.170	(0.33)
3/1/2019	4.10	4.200	(0.35)
2/28/2019	4.10	4.200	(0.35)
2/27/2019	4.10	4.210	(0.36)
2/26/2019	4.10	4.210	(0.34)
2/25/2019	4.15	4.250	(0.27)
2/22/2019	4.30	4.370	(0.29)
2/21/2019	4.27	4.340	(0.28)
2/20/2019	4.23	4.290	(0.27)
2/19/2019	4.34	4.380	(0.27)
2/15/2019	4.50	4.530	(0.27)
2/14/2019	4.52	4.540	(0.30)
2/13/2019	4.64	4.650	(0.30)
2/12/2019	4.61	4.600	(0.31)
2/11/2019	4.61	4.620	(0.33)
2/8/2019	4.61	4.640	(0.33)
2/7/2019	4.63	4.660	(0.33)
2/6/2019	4.76	4.770	(0.33)
2/5/2019	4.78	4.760	(0.33)
2/4/2019	4.78	4.810	(0.33)
2/1/2019	4.76	4.800	(0.33)
1/31/2019	4.67	4.740	(0.32)
1/30/2019	4.70	4.770	(0.32)
1/29/2019	4.68	4.750	(0.32)
1/28/2019	4.73	4.800	(0.34)
1/25/2019	4.76	4.820	(0.34)
1/24/2019	4.76	4.830	(0.36)
1/23/2019	4.80	4.860	(0.35)
1/22/2019	4.74	4.810	(0.36)
1/18/2019	4.70	4.770	(0.36)
1/17/2019	4.66	4.770	(0.38)
1/16/2019	4.58	4.700	(0.38)
1/15/2019	4.58	4.700	(0.38)
1/14/2019	4.62	4.720	(0.37)
1/11/2019	4.67	4.780	(0.38)
1/10/2019	4.61	4.720	(0.38)
1/9/2019	4.68	4.790	(0.38)
1/8/2019	4.67	4.790	(0.38)
1/7/2019	4.65	4.770	(0.38)
1/4/2019	4.68	4.800	(0.38)
1/3/2019	4.66	4.780	(0.38)
1/2/2019	4.55	4.670	(0.38)

3/20/2019	7.97	8.400	(1.09)
3/19/2019	7.95	8.400	(1.09)
3/18/2019	7.97	8.400	(1.09)
3/15/2019	8.00	8.420	(1.09)
3/14/2019	7.90	8.320	(1.09)
3/13/2019	7.90	8.350	(1.11)
3/12/2019	7.85	8.310	(1.12)
3/11/2019	7.78	8.250	(1.12)
3/8/2019	7.83	8.300	(1.13)
3/7/2019	7.90	8.360	(1.13)
3/6/2019	7.90	8.360	(1.12)
3/5/2019	8.01	8.480	(1.13)
3/4/2019	8.03	8.500	(1.13)
3/1/2019	7.97	8.450	(1.15)
2/28/2019	7.95	8.420	(1.15)
2/27/2019	8.00	8.470	(1.17)
2/26/2019	8.00	8.500	(1.04)
2/25/2019	8.06	8.550	(1.06)
2/22/2019	8.04	8.520	(1.06)
2/21/2019	8.04	8.520	(1.07)
2/20/2019	7.95	8.470	(1.08)
2/19/2019	7.93	8.440	(1.08)
2/15/2019	8.00	8.480	(1.07)
2/14/2019	7.96	8.450	(1.08)
2/13/2019	8.09	8.540	(1.08)
2/12/2019	8.10	8.550	(1.08)
2/11/2019	7.98	8.430	(1.07)
2/8/2019	8.08	8.510	(1.07)
2/7/2019	8.07	8.500	(1.06)
2/6/2019	8.14	8.570	(1.08)
2/5/2019	8.12	-8.540	(1.08)
2/4/2019	8.10	8.500	(1.09)
2/1/2019	8.10	8.500	(1.08)
1/31/2019	8.06	8.480	(1.09)
1/30/2019	8.12	8.530	(1.09)
1/29/2019	8.10	8.510	(1.09)
1/28/2019	8.14	8.550	(1.09)
1/25/2019	8.16	8.570	(1.09)
1/24/2019	8.07	8.500	(1.09)
1/23/2019	8.06	8.500	(1.09)
1/19/2019	8.00	8.440	(1.09)
1/18/2019	8.07	8.500	(1.10)
1/17/2019	8.00	8.410	(1.08)
1/16/2019	7.84	8.310	(1.11)
1/15/2019	7.80	8.310	(1.13)
1/14/2019	7.90	8.400	(1.14)
1/11/2019	7.93	8.450	(1.17)
1/10/2019	7.90	8.400	(1.17)
1/9/2019	8.07	8.530	(1.17)
1/8/2019	8.02	8.470	(1.16)
1/7/2019	8.07	8.500	(1.17)
1/4/2019	8.04	8.450	(1.17)
1/3/2019	7.96	8.370	(1.17)
1/2/2019	7.90	8.320	(1.17)

3/20/2019	3.37	3.500	(0.35)
3/19/2019	3.37	3.500	(0.34)
3/18/2019	3.37	3.500	(0.35)
3/15/2019	3.37	3.500	(0.36)
3/14/2019	3.32	3.480	(0.38)
3/13/2019	3.27	3.450	(0.40)
3/12/2019	3.01	3.450	(0.40)
3/11/2019	3.22	3.400	(0.40)
3/8/2019	3.24	3.420	(0.40)
3/7/2019	3.25	3.430	(0.40)
3/6/2019	3.32	3.490	(0.41)
3/5/2019	3.36	3.510	(0.40)
3/4/2019	3.35	3.500	(0.40)
3/1/2019	3.33	3.490	(0.40)
2/28/2019	3.31	3.-47	(0.40)
2/27/2019	3.34	3.500	(0.40)
2/26/2019	3.36	3.500	(0.40)
2/25/2019	3.40	3.530	(0.31)
2/22/2019	3.42	3.550	(0.33)
2/21/2019	3.42	3.550	(0.34)
2/20/2019	3.37	3.520	(0.34)
2/19/2019	3.36	3.500	(0.34)
2/15/2019	3.41	3.530	(0.34)
2/14/2019	3.41	3.530	(0.34)
2/13/2019	3.43	3.560	(0.36)
2/12/2019	3.42	3.550	(0.36)
2/11/2019	3.36	3.500	(0.38)
2/8/2019	3.38	3.520	(0.36)
2/7/2019	3.40	3.530	(0.37)
2/6/2019	3.44	3.560	(0.36)
2/5/2019	3.45	3.570	(0.36)
2/4/2019	3.43	3.560	(0.36)
2/1/2019	3.42	3.560	(0.36)
1/31/2019	3.40	3.540	(0.36)
1/30/2019	3.45	3.580	(0.36)
1/29/2019	3.42	3.550	(0.35)
1/28/2019	3.42	3.560	(0.37)
1/25/2019	3.43	3.560	(0.37)
1/24/2019	3.40	3.530	(0.37)
1/23/2019	3.42	3.540	(0.37)
1/19/2019	3.42	3.520	(0.37)
1/18/2019	3.45	3.550	(0.37)
1/17/2019	3.41	3.550	(0.39)
1/16/2019	3.35	3.510	(0.39)
1/15/2019	3.31	3.480	(0.40)
1/14/2019	3.38	3.540	(0.41)
1/11/2019	3.38	3.530	(0.40)
1/10/2019	3.36	3.500	(0.40)
1/9/2019	3.43	3.540	(0.39)
1/8/2019	3.41	3.530	(0.39)
1/7/2019	3.44	3.540	(0.38)
1/4/2019	3.45	3.540	(0.38)
1/3/2019	3.42	3.510	(0.38)
1/2/2019	3.38	3.480	(0.38)

3/20/2019	3.07	3.280	(0.65)
3/19/2019	3.07	3.280	(0.64)
3/18/2019	3.07	3.280	(0.65)
3/15/2019	3.08	3.300	(0.65)
3/14/2019	3.05	3.270	(0.65)
3/13/2019	3.02	3.250	(0.65)
3/12/2019	3.01	3.250	(0.65)
3/11/2019	2.97	3.200	(0.65)
3/8/2019	3.00	3.220	(0.64)
3/7/2019	3.00	3.230	(0.65)
3/6/2019	3.07	3.300	(0.66)
3/5/2019	3.11	3.320	(0.65)
3/4/2019	3.10	3.310	(0.65)
3/1/2019	3.07	3.290	(0.66)
2/28/2019	3.06	3.270	(0.65)
2/27/2019	3.09	3.300	(0.65)
2/26/2019	3.11	3.320	(0.65)
2/25/2019	3.15	3.340	(0.56)
2/22/2019	3.17	3.360	(0.58)
2/21/2019	3.15	3.360	(0.61)
2/20/2019	3.11	3.330	(0.60)
2/19/2019	3.10	3.310	(0.60)
2/15/2019	3.14	3.340	(0.61)
2/14/2019	3.14	3.340	(0.61)
2/13/2019	3.15	3.370	(0.64)
2/12/2019	3.12	3.360	(0.66)
2/11/2019	3.07	3.300	(0.66)
2/8/2019	3.09	3.310	(0.65)
2/7/2019	3.11	3.320	(0.68)
2/6/2019	3.14	3.350	(0.66)
2/5/2019	3.14	3.360	(0.67)
2/4/2019	3.12	3.350	(0.67)
2/1/2019	3.12	3.350	(0.66)
1/31/2019	3.10	3.340	(0.66)
1/30/2019	3.15	3.380	(0.66)
1/29/2019	3.12	3.350	(0.65)
1/28/2019	3.14	3.370	(0.66)
1/25/2019	3.14	3.370	(0.66)
1/24/2019	3.12	3.350	(0.65)
1/23/2019	3.14	3.360	(0.65)
1/19/2019	3.14	3.350	(0.65)
1/18/2019	3.17	3.380	(0.65)
1/17/2019	3.12	3.380	(0.68)
1/16/2019	3.06	3.340	(0.68)
1/15/2019	3.03	3.310	(0.68)
1/14/2019	3.10	3.370	(0.69)
1/11/2019	3.10	3.360	(0.68)
1/10/2019	3.08	3.330	(0.68)
1/9/2019	3.14	3.380	(0.68)
1/8/2019	3.12	3.370	(0.68)
1/7/2019	3.14	3.380	(0.68)
1/4/2019	3.15	3.380	(0.68)
1/3/2019	3.12	3.350	(0.68)
1/2/2019	3.08	3.330	(0.68)