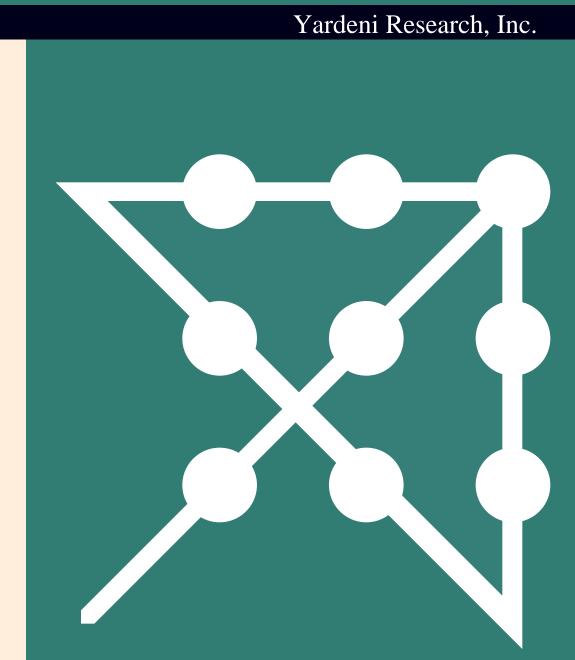
Quant Briefing: Valuation Database



thinking outside the box

October 8, 2019

Dr. Edward Yardeni

516-972-7683 eyardeni@yardeni.com

Mali Quintana 480-664-1333 aquintana@yardeni.com

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800		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018	2019	
1/4	102.8	1/2	77.07	1/1	77.79	1/7	96.35	1/6 10	07.45	1/3 1	13.2	1/2	121.1	1/1	126.78	1/7 13	26.92	1/6 1	32.91	1/5 148.	1/3	174.
1/11	102.9	1/9	74.74	1/8	78.26	1/14	96.86	1/13 10	07.29	1/10 1	13.5	1/9	121.3	1/8	126.53	1/14 13	26.18	1/13 1	33.26	1/12 150.1	3 1/10	172
1/18	102.0	1/16	74.33	1/15	76.67	1/21	97.97	1/20 10	07.23	1/17 1	13.7	1/16	121.37	1/15	125.52	1/21	125.7	1/20 1	33.65	1/19 152.6	6 1/17	172
/25	101.9	1/23	71.96	1/22	79.23	1/28	98.3	1/27	107.4	1/24 1	13.2	1/23	121.4	1/22	124.64	1/28	124.6	1/27 1	33.89	1/26 154.	1/24	17.
2/1	101.4	1/30	69.26	1/29	79.89	2/4	98.59	2/3	107.2	1/31 1	13.3	1/30	121.13	1/29	123.77	2/4 1	24.33	2/3 1	33.42	2/2 156."	7 1/31	17
2/8	101.0	2/6	66.72	2/5	80.51	2/11	98.72	2/10 10	07.28	2/7 1	13.5	2/6	121.16	2/5	122.92	2/11	124.0	2/10 1	133.36	2/9 158."	0 217	17
2/15	100.9	2/13	65.96	2/12	80.82	2/18	99.09	2/17 10	07.39	2/14 1	13.7	2/13	121.2	2/12	122.77	2/18 1	24.09	2/17 1	33.49	2/16 157.6	0 2/14	17
2/22	101.2	2/20	66.22		81.10		99.50		07.68		13.8		121.23		122.8		124.0		133.78		5 2/21	17
2/29	101.3		66.19		81.74		99.79		08.18		14.7		121.42		123.37		23.82		33.81		2/28	17
3/7	100.5		66.04		82.05		100.34		08.55		14.8		122.0		123.67		23.87		33.99		11 3/7	1
3/14	99.9	3/13	65.3		82.31		100.9		08.73		15.0		122.14		123.91		124.0		134.3		3/14	1
3/21	100.2		64.73						08.75		15.0		122.14		123.91		124.0		134.5		0 3/21	1
					82.54		101.23															
3/28			64.23		82.94		101.39		09.37		15.6		122.38		124.76		24.13		34.88		9 3/28	17
4/4	99.8	4/3	63.39		82.59		101.79		09.26		15.4		122.23		124.85		24.23		135.14		6 4/4	17
4/11	99.8	4/10	63.03		83.27		102.53		09.74		15.3		122.73		123.89		24.39		35.78		0 4/11	17
4/18	99.6	4/17	63.12		83.55		103.0		10.33		15.6		122.81		124.32		24.53		135.9	4/20 163.	11 4/18	17
4/25	99.2	4/24	63.30	4/23	84.96	4/29	103.69	4/27 11	10.72	4/25 1	15.3	4/24	123.11	4/23	124.0		124.0	4/28	136.3	4/27 163.8	6 4/25	17
5/2	99.1	5/1	63.02	4/30	86.00	5/6	104.34	5/4 11	10.79	5/2 1	15.2	5/1	124.1	4/30	124.27	5/6 13	24.37	5/5 1	36.86	5/4 165.«	5 5/2	1
5/9	99.3	5/8	62.92	5/7	86.79	5/13	104.9	5/11 1	111.0	5/9 1	15.5	5/8	124.46	5/7	124.68	5/13 12	24.59	5/ 12 1	37.25	5/11 166	0 5/9	17
5/16	99.5	5/15	63.03	5/14	87.41	5/20	105.09	5/18 1	111,0	5/16 1	15.8	5/15	124.79	5/14	124.89	5/20 12	25.19	5/19 1	37.42	5/18 167.	21 5/16	1
5/23	99.8	5/22	63.36	5/21	87.86	5/27	105.45	5/24 11	11.17	5/23 1	16.0	5/22	125.08	5/21	125.2	5/27 1	25.49	5/26	137.9	5/25 167.	21 5/23	ſ
5/30	99.7	5/29	63.67	5/28	88.00	6/3	105.74	5/31 11	11.27	5/30 1	16.1	5/29	125.41	5/28	125.55	6/3 1	25.86	6/2 1	38.12	6/1 167.6	2 5/30	1
6/6	99.9	6/5	65.49	6/4	88.24	6/10	106.0	6/7 11	11.12	6/6 1	16.4	6/5	125.58	6/4	125.81	6/10 1:	26.21	6/9 1	138.35	6/8 167.8	6 6/6	1
6/13	100.5	6/12	65.97	6/11	88.51	6/17	106.08	6/14 11	11.25	6/13 1	16.8	6/12	125.89	6/11	125.84	6/17 1	26.47	6/16 1	38.85	6/15 168.4	0 6/13	1
6/20	100.5	6/19	65.98		88.70		106.24		11.26		17.1		126.2		126.12		26.58		138.97		6 6/20	1
6/27			66.63		88.88		106.0		11.24		17.2		126.22		126.32		26.76		39.26		3 6/27	1
7/4	100.5		66.94		89.18		106.0		11.49		17.3		126.62		126.52		26.97		39.59		3 7/4	1
7/11	100.7	7/10	67.34		89.40		106.1		11.24		17.8		126.88		126.8		27.05		39.67		9 7/11	r
7/18	100.3	7/17	67.64		89.73		106.67		111.0		18.0		127.21		126.91		27.39		139.64		21 7/18	1
7/25	100.3	7/24	68.40		90.06						18.3		127.59		120.91							
8/1							107.5		10.49								27.68		39.69		7/25	1
	99.6	7/31	68.81		90.65		107.85		10.79		18.8		128.0		127.4		27.87		40.31		3 8/1	1
8/8	99.5	8/7	68.90		91.12		108.0		10.81		18.2		128.22		127.3		27.99		40.56		6 8/8	1
8/15	98.7	8/14	69.31		91.41		108.07		11.05		18.5		125.51	8/13	127.44	8/19 12	28.30	8/18	140.8	8/17 172.6	5 8/15	ľ
8/22	98.7	8/21	69.79	8/20	91.63	8/26	107.79	8/23 11	11.22	8/22 1	18.8	8/21	128.58	8/20	127.72	8/26 13	28.65	8/25 1	41.08	8/24 172.5	5 8/22	17
8/29	98.9	8/28	70.28	8/27	91.86	9/2	108.0	8/30 11	11.52	8/29 1	18.8	8/28	128.77	8/27	127.77	9/2 13	28.93	9/1 1	41.33	8/31 173.0	6 8/29	15
9/5	99.1	9/4	70.49	9/3	91.98	9/9	108.0	9/6 11	11.76	9/5 1	19.0	9/4	129.1	9/3	127.86	9/9 12	29.99	9/8 1	41.57	9/7 173."	6 9/5	15
9/12	99.6	9/11	70.86	9/10	92.22	9/16	107.84	9/13 1	112.0	9/12 1	19.3	9/11	129.29	9/10	127.94	9/16 12	29.30	9/15 1	41.58	9/14 174.0	6 9/12	17
9/19	99.2	9/18	71.02	9/17	92.18	9/23	107.77	9/20	112.1	9/19 1	19.6	9/18	129.56	9/17	127.87	9/23	129.2	9/22 1	41.59	9/21 174.3	7 9/19	1
9/26	98.7	9/25	71.53	9/24	92.15	9/30	107.69	9/27 11	12.24	9/26 1	19.5	9/25	129.36	9/24	127.71	9/30 12	29.45	9/29 1	41.96	9/28 174,3	0 9/26	1
10/3	97.7	10/2	72.00	10/1	92.37	10/7	107.59	10/4 11	12.82	10/3 1	19.6	10/2	129.53	10/1	127.68	10/7 1:	29.98	10/6 1	42.18	10/5 174.6	2 10/3	1
0/10	94.4	10/9	72.19		92.60		107.0	10/11 11	12.57	10/10 1	19.7	10/9	129.57	10/8	127.42	10/14 1	29.91	10/13 1	42.36	10/12 174.5	5	
0/17	94.2	10/16	72.86		92.85								129.37		127.09				42.99			
0/24	91.8	10/23	73.81				106.59					10/23	128.73		126.79				43.07			
10/31	89.6	10/30	74.41		93.67		106.6					10/30	128.65		127.11		30.49		43.56			
11/7	87.8	11/6	75.00		93.91		106.84		12.22		20.2		128.5		127.19				44.14			
1/14	86.1	11/13	75.61		94.05							11/13	128.61		127.19				44.29			
1/21	84.9	11/20	75.98				107.09					11/20	128.71		127.28				44.81			
1/28	83.2	11/27	76.34		94.57		107.18						128.72		127.32		31.57		45.06			
12/5	82.2	12/4	76.69	12/3	94.77	12/9	107.39	12/6 11	112.6	12/5 1	21.1	12/4	128.16	12/3	127.43	12/9	131.8	12/8 1	45.39	12/7 175.4	7	
2/12	80.6	12/11	77.07	12/10	95.15	12/16	107.32	12/13 11	12.77	12/12 1:	21.3	12/11	127.77	12/10	127.54	12/16	132.2	12/15 1	45.69	12/14 175.	10	
2/19	78.2	12/18	77.4	12/17	95.59	12/23	107.1	12/20 1	112.8	12/19 1:	21.5	12/18	126.66	12/17	127.23	12/23 13	32.39	12/22 1	46.49	12/21 174.3	:8	
2/26	77.4	12/25	77.51	12/24	95.75	12/30	107.27	12/27	113.0	12/26 1:	20.9	12/25	126.5	12/24	126.94	12/30 13	32.69	12/29 1	47.23	12/28 174	0	
				12/31	95.97																	

Source: Board of Governors of the Federal Reserve System.

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2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019	
1/4	3.94	1/2 :	2.24	1/1	3.83	1/7	3.40	1/6 1	.99	1/3	1.87	1/2 3	3.01	1/1	2.18	1/7 2.	19	1/6	2.43	1/5	2.46	1/4	2.65
1/11	3.85	1/9	2.48	1/8	3.83	1/14	3.36	1/13 1	.95	1/10	1.90	1/9	2.96	1/8	2.00	1/14 2.	10	1/13	2.38	1/12	2.54	1711	2.72
1/18	3.72	1/16	2.3	1/15	3.77	1/21	3.42	1/20 1	.96	1/17	1.87	1/16	2.86	1/15	1.86	1/21 2.	04	1/20	2.43	1/19	2.59	1/18	2.74
1/25	3.58	1/23	2.56	1/22	3.66	1/28	3.40	1/27 2	2.01	1/24	1.90	1/23	2.82	1/22	1.85	1/28 2.	00	1/27	2.48	1/26	2.65	1/25	2.75
2/1	3.67	1/30	2.75	1/29	3.66	2/4	3.54	2/3 1	.88	1/31	2.02	1/30 2	2.73	1/29	1.77	2/4 1.	89	2/3	2.48	212	2.75	2/1	2.70
2/8	3.66	2/6	2.92	2/5	3.66	2/11	3.68	2/10 1	.99	2/7	2.00	2/6	2.68	2/5	1.81	2/11 1.	71	2/10	2.39	2/9	2.82	2/8	2.68
2/15	3.72	2/13	2.88	2/12	3.69	2/18	3.60	2/17 1	.97	2/14	2.01	2/13	2.75	2/12	2.00	2/18 1.	78	2/17	2.46	2/16	2.87	2/15	2.67
2/22	3.85	2/20	2.75	2/19	3.74	2/25	3.46	2/24 2	2.01	2/21	2.00	2/20	2.73	2/19	2.11	2/25 1.	75	2/24	2.39	2/23	2.91	2/22	2.66
2/29	3.78	2/27	2.91	2/26	3.69	3/4	3.47	3/2 1	.97	2/28	1.88	2/27	2.69	2/26	2.01	3/4 1.	82	3/3	2.43	312	2.86	3/1	2.70
3/7	3.61	3/6	2.90	3/5	3.63	3/11	3.46	3/9 2	.00	3/7	1.96	3/6	2.71	3/5	2.13	3/11 1.	91	3/10	2.55	3/9	2.88	3/8	2.68
3/14	3.51	3/13	2.92	3/12	3.72	3/18	3.29	3/16 2	.21	3/14	2.04	3/13	2.72	3/12	2.14	3/18 1.	93	3/17	2.55	3/16	2.84	3/15	2.62
3/21	3.39	3/20	2.75	3/19	3.68	3/25	3.38	3/23 2	.32	3/21	1.94	3/20	2.74	3/19	2.00	3/25 1.	91	3/24	2.42	3/23	2.86	3/22	2.55
3/28	3.52	3/27	2.74	3/26	3.79	4/1	3.47	3/30 2	.22	3/28	1.90	3/27	2.72	3/26	1.94	4/1 1.	82	3/31	2.4	3/30	2.79	3/29	2.41
4/4	3.55		2.76		3.89		3.54		.21				2.77		1.91				2.35	4/6	2.78	4/5	2.50
4/11	3.54		2.93		3.94		3.51				1.79		2.68					4/14		4/13		4/12	2.52
4/18	3.67		2.87		3.85		3.41				1.73									4/20	2.88		2.58
4/25	3.81		2.96		3.81		3.36				1.73									4/27		4/26	2.55
5/2	3.83		3.10		3.76		3.24		.95		1.70				2.03				2.33		2.96		2.53
5/9	3.85		3.23		3.56		3.24		.95		1.83		2.62							5/11	2.90		2.55
	3.86				3.54						1.93												
5/16			3.14 3.29		3.33		3.15													5/18	3.07		2.40
5/23	3.84						3.10				1.99									5/25		5/24	2.37
5/30	4.03		3.59		3.25		3.01				2.14				2.13				2.20			5/31	2.22
6/6	3.98		3.70		3.31		3.00		.61		2.12		2.59						2.18		2.94		2.10
6/13	4.15		3.89		3.22		2.99				2.20									6/15		6/14	2.12
6/20	4.20		3.75		3.26		2.96				2.33									6/22		6/21	2.05
6/27	4.09		3.63		3.17		3.11				2.55				2.41					6/29		6/28	2.02
7/4	4.00		3.53		2.99		3.12				2.56		2.60		2.38				2.36		2.84		2.00
7/11	3.90		3.42		3.02		2.94				2.64		2.57	7/9	2.31					7/13	2.85	7/12	2.09
7/18	3.98	7/17	3.55	7/16	3.05		2.97		.52	7/18	2.54	7/17	2.53	7/16	2.38	7/22 1.	58	7/21	2.27	7/20	2.86	7/19	2.07
7/25	4.11	7/24	3.62	7/23	2.97	7/29	2.97	7/26 1	.47	7/25	2.57	7/24	2.49	7/23	2.32	7/29 1.	53	7/28	2.30	7127	2.96	7/26	2.07
8/1	4.04	7/31	3.67	7/30	3.02	8/5	2.62	8/2 1	.54	8/1	2.64	7/31	2.53	7/30	2.25	8/5 1.	54	8/4	2.27	8/3	2.97	8/2	1.98
8/8	3.99	8/7 :	3.77	8/6	2.94	8/12	2.27	8/9 1	.65	8/8	2.62	8/7	2.47	8/6	2.22	8/12 1.	54	8/11	2.24	8710	2.94	879	1.73
8/15	3.91	8/14 :	3.67	8/13	2.76	8/19	2.17	8/ 1 6 1	.76	8/15	2.73	8/14 3	2.41	8/13	2.18	8/19 1.	56	8/18	2.22	8/17	2.87	8/16	1.60
8/22	3.83	8/21	3.48	8/20	2.61	8/26	2.19	8/23 1	.74	8/22	2.86	8/21 2	2.41	8/20	2.12	8/26 1.	57	8/25	2.19	8/24	2.83	8/23	1.58
8/29	3.79	8/28	3.46	8/27	2.56	9/2	2.17	8/30 1	.63	8/29	2.76	8/28	2.37	8/27	2.14	9/2 1.	58	9/1	2.14	8/31	2.87	8/30	1.50
9/5	3.69	9/4	3.37	9/3	2.59	9/9	1.99	9/6 1	.64	9/5	2.92	9/4 2	2.44	9/3	2.18	9/9 1.	59	9/8	2.07	9/7	2.91	9/6	1.52
9/12	3.66	9/11	3.41	9/10	2.71	9/16	2.03	9/13 1	.76	9/12	2.92	9/11 :	2.54	3/10	2.21	9/16 1.	70	9/15	2.18	9714	2.97	9/13	1.76
9/19	3.54	9/18	3.46	9/17	2.74	9/23	1.87	9/20 1	.81	9/19	2.79	9/18 2	2.61	3/17	2.22	9/23 1.	66	9/22	2.26	9/21	3.05	9/20	1.80
9/26	3.84	9/25	3.43	9/24	2.61	9/30	1.97	9/27 1	.68	9/26	2.66	9/25	2.55	3/24	2.16	9/30 1.	58	9/29	2.28	9/28	3.07	9/27	1.70
10/3	3.70	10/2	3.28	10/1	2.52	10/7	1.93				2.64				2.05				2.34	10/5		10/4	1.60
10/10	3.69		3.28		2.45						2.68									10/12	3.18		
10/17	4.02				2.50						2.66					10/21 1.			2.33	10/19	3.18		
10/24	3.74				2.54						2.55									10/26	3.14		
10/31	3.92				2.67		2.07													11/2	3.14		
11/7	3.82		3.53		2.61		2.05				2.68									11/9	3.21		
11/14	3.78				2.68						2.74									11/16	3.11		
11/21	3.38				2.89						2.74									11/23	3.06		
11/28	3.10				2.89						2.74									11/30	3.05		
12/5	2.66		3.34		2.93		2.04				2.84								2.36	12/7	2.9		
12/12	2.67				3.18						2.86									12/14	2.89		
12/19	2.26				3.42											12/23 2.				12/21	2.81		
12/26	2.18	12/25	3.76	12/24	3.37			12/27 1	.76	12/26	2.99	12/25	2.24			12/30 2.	51	12/29	2.43	12/28	2.76		
						12/31	3.38							12/31	2.29								

Source: Board of Governors of the Federal Reserve System.

008		2009		2010		2011		2012	2	013	2014		2015		2016		2017		2018		2019
1/4	2609.4	1/2	3440.6	1/1	2033.7	1/7	2833.8	1/6 539	9.5 1/3	6055.1	1/2	4022.6	1/1	5815.6	1/7	5795.4	1/6	5469.5	1/5	6028.9	1/4
1/11	2671.7	1/9	3079.8	1/8	2043.3	1/14	2882.7	1/13 550	2.1 1/1	0 5971.1	1/9	4098.0	1/8	6326.5	1/14	6008.6	1/13	5599.2	1/12	5934.3	1211
1/18	2741.7	1/16	3231.7	1/15	2086.7	1/21	2864.6	1/20 547	0.9 1/1	7 6079.1	1/16	4243.7	1/15	6748.3	1/21	6159.8	1/20	5500.0	1/19	5894.2	1/18
1/25	2845.3	1/23	2810.9	1/22	2164.8	1/28	2891.18	1/27 534	3.3 1/2	4 5958.9	1/23	4303.9	1/22	6737.3	1/28	6230.0	1/27	5398.8	1/26	5834.3	1/25
2/1	2763.2	1/30	2518.5	1/29	2182.8	2/4	2785.0	2/3 570	2.1 1/3	1 5607.9	1/30	4437.0	1/29	6992.7	2/4	6578.3	2/3	5379.8	212	5700.7	2/1
2/8	2759.3	2/6	2284.9	2/5	2199.7	2/11	2682.6	2/10 539	1.0 2/7	5675.5	2/6	4520.9	2/5	6791.2	2/11	7249.7	2/10	5579.9	2/9	5627.7	2/8
2/15	2711.3	2/13	2290.3	2/12	2190.2	2/18	2752.5	2/17 545	1.3 2/1	4 5658.7	2/13	4407.2	2/12	6138.5	2/18	6971.3	2/17	5426.4	2/16	5561.0	2/15
2/22	2628.6	2/20	2408.0	2/19	2168.4	2/25	2875.7	2/24 535 ⁻	7.2 2/2	1 5691.5	2/20	4440.7	2/19	5819.9	2/25	7082.9	2/24	5597.5	2/23	5510.3	2122
2/29	2679.9	2/27	2274.6	2/26	2215.2	3/4	2875.8	3/2 549	1.4 2/2	8 6098.9	2/27	4513.7	2/26	6127.8	3/4	6803.3	3/3	5506.6	3/2	5619.2	3/1
3/7	2783.9	3/6	2277.2	3/5	2260.3	3/11	2900.0	3/9 542	7.5 3/7	5857.1	3/6	4500.4	3/5	5806.1	3/11	6485.3	3/10	5254.5	3/9	5594.1	3/8
3/14	2846.4	3/13	2236.3	3/12	2212.6	3/18	3066.9	3/16 491	9.9 3/1	4 5639.2	3/13	4490.4	3/12	5790.2	3/18	6422.8	3/17	5266.7	3/16	5687.0	3/15
3/21	2956.9	3/20	2353.8	3/19	2242.9	3/25	2995.0	3/23 470	4.7 3/2	1 5939.7	3/20	4462.8	3/19	6176.0	3/25	6491.6	3/24	5556.2	3/23	5646.9	3/22
3/28	2870.2	3/27	2344.2	3/26	2188.4	4/1	2921.9	3/30 492	5.6 3/2	8 6083.7	3/27	4499.3	3/26	6430.9	4/1	6820.3	3/31	5620	3/30	5806.1	3/29
4/4	2812.4	4/3	2296.7	4/2	2123.1	4/8	2875.4	4/6 494	3.9 4/4	6374.6	4/3	4412.6	4/2	6536.6	4/8	7139.7	4/7	5750.6	4/6	5836.7	4/5
1/11	2818.1	4/10	2151.2	4/9	2113.5	4/15	2921.1	4/13 537	9.4 4/1	1 6443.6	4/10	4579.5	4/9	6419.2	4/15	7027.7	4/14	5903.5	4/13	5807.1	4/12
4/18	2713.4	4/17	2199.3	4/16	2170.1	4/22	3020.2	4/20 551	6.5 4/1	8 6679.2	4/17	4599.6	4/16	6543.2	4/22	6767.9	4/21	6094.2	4/20	5663.5	4719
4/25	2602.6	4/24	2138.5	4/23	2229.9	4/29	3086.0	4/27 559	1.9 4/2	5 6654.9	4/24	4542.8	4/23	6391.8	4/29	6593.1	4/28	5900.4	4/27	5480.3	4/26
5/2	2586.9	5/1	2032.9	4/30	2287.2	5/6	3220.4	5/4 568	1.5 5/2	6778.8	5/1	4665.4	4/30	6121.7	5/6	6871.3	5/5	5873.8	5/4	5589.5	5/3
5/9	2578.4	5/8	1948.0	5/7	2437.9	5/13	3278.1	5/11 590	3.2 5/9	6312.0	5/8	4750.4	5/7	5693.2	5/13	7119.4	5/12	5742.7	5/11	5589.2	5/10
5/16	2577.0	5/15	2007.3	5/14	2469.2	5/20	3336.2	5/18 637	9.3 5/1	6 5998.4	5/15	4855.6	5/14	5575.4	5/20	6878.6	5/19	6053.7	5/18	5446.6	5/17
5/23	2597.9	5/22	1925.8	5/21	2635.4	5/27	3401.6	5/25 631	6.5 5/2	3 5827.6	5/22	4924.4	5/21	5614.4	5/27	6783.2	5/26	6101.8	5/25	5555.2	5/24
5/30	2472.6	5/29	1773.5	5/28	2707.7	6/3	3513.0	6/1 691	1.2 5/3	0 5427.1	5/29	5077.3	5/28	5894.4	6/3	6992.2	6/2	6278.2	6/1	5923.0	5/31
6/6	2510.6	6/5	1770.0	6/4	2665.9	6/10	3532.3	6/8 690	1.9 6/6	5491.0	6/5	4848.6	6/4	5446.3	6/10	7424.1	6/9	6346.3	6/8	5709.5	617
5/13	2421.2	6/12	1695.9	6/11	2748.8	6/17	3547.8	6/15 686	7.3 6/1	3 5310.9	6/12	4805.0	6/11	5200.0	6/17	7855.3	6/16	6369.3	6/15	5708.5	6/14
5/20	2393.1	6/19	1759.5	6/18	2720.9	6/24	3589.2	6/22 678	4.1 6/2	0 5025.3	6/19	4798.5	6/18	5436.5	6/24	7534.5	6/23	6433.8	6/22 5	5792439	6/21
6/27	2451.1	6/26	1835.5	6/25	2803.8	7/1	3409.6	6/29 678	2.9 6/2	7 4595.3	6/26	4911.3	6/25	5241.5	7/1	8623.1	6/30	6244.8	6/29	5930.9	6/28
7/4	2531.5	7/3	1896.3	7/2	2982.6	7/8	3396.8	7/6 692	4.8 7/4	4582.4	7/3	4870.0	7/2	5316.0	7/8	9200.7	7/7	5914.8	7/6 9	5965845	7/5
/11	2581.8	7/10	1969.0	7/9	2960.3	7/15	3608.8	7/12 731	3.4 7/1	1 4462	7/10	4937.0	7/9	5489.2	7/15	8413.9	7/14	5943.4	7/13	5957.5	7/12
/18	2520.6	7/17	1905.4	7/16	2942.0	7/22	3601.0	7/19 730	0.7 7/1	8 4647.2	7/17	5028.1	7/16	5332.4	7/22	8062.7	7/21	6151.5	7/20	5951.4	7/19
7/25	2434.7	7/24	1889.5	7/23	3032.3	7/29	3619.5	7/26 751	5.3 7/2	5 4601.6	7/24	5124.1	7/23	5478.4	7/29	8345.1	7/28	6073.5	7/27	5774.0	7/26
8/1	2465.1	7/31	1874.9	7/30	3001.7	8/5	4116.41	8/2 719	4.2 8/1	4501.5	7/31	5058.1	7/30	5662.2	8/5	8303.2	8/4	6181.1	8/3	5788.9	8/2
8/8	2494.0	8/7	1827.6	8/6	3099.3	8/12	4759.0	8/9 671	5.8 8/8	4511.8		5191.1		5734.2	8/12	8311.0	8/11	6275.0	8/10	5859.2	8/9
3/15	2525.3	8/14	1888.6	8/13	3312.0		4980.2	8/16 630	9.7 8/1	5 4339.2	8/14	5332.4	8/13	5845.9	8/19	8224.4	8/18	6342.3	8/17	6015.7	8/16
3/22	2578.1		2005.5		3510.7		4921.9		2.0 8/2			5335.3		6024.5		8194.3		6442.0			8/23
3/29	2608.4		2031.2		3588.3		4977.9					5433.3		5970.6		8160.1		6604.2		6040.4	
9/5	2685.9	9/4	2091.7	9/3	3551.4	9/9	5428.1	9/6 681	4.6 9/5			5291.0	9/3	5865.1	9/9	8131.4	9/8	6839.1	9/7	5971.1	9/6
9/12	2720.8		2078.0		3403.0		5312.3		3.1 9/1			5090.2		5789.1		7605.9		6494.5		5860.6	
9/19	2802.0		2052.6		3364.2		5763.1		3.4 9/1			4964.0		5759.5		7783.1		6265.0		5717.0	
9/26	2571.1		2085.4		3530.7		5466.5		1 0 9/2			5072.9		5912.5		8193.0		6226.3		5677.5	
10/3	2641.6		2195 12		3665.5		5574.6					5244 1		6228.3		7645.9		6076 1		5561.1	
0/10	2613.6		2200.9		3779.6		4821.6		3.0 10/			5490.3		6096.7		7298.3		6109.9		5501.6	
0/17	2342.3		2124.2	10/15	3714.0		4852.3					5907.3		6260.6		7395.5		6136.9		5510.4	
	2453.2		2124.2		3673.2		4675.0		0.5 10/			5721.3		6154.9		7203.9		5912.0		5588.5	
0/24	2400.2		2131.9		3508.2		5151.7		9.4 10 /			5545.3		6024.2		7169.7		6083.1		5585.4	
	2298.4		2132.1																		
1/7 1/14	2296.4		2124.0	11/5 11/12	3598.1 3509.3		5211.7 5297.5		3.0 11 / 9.1 11 /			5444.9 5449.6		5627.9 5482.3		6600.5		6159.8 6088.2		5460.4	
																5792.0				5634.7	
1/21	2311.8		2268.1		3263.0		5520.1		4.6 11/			5524.0		5631.9		5608.1		6162.1		5720.3	
1/28	2685.2		2313.3		3329.9		5253.9		3.8 11/			5720.9		5683.9		5551.5		6146.6		5741.6	
12/5	3090.2		2296.1	12/3	3234.5		5264.2		7.5 12/			5645.8		5714.4		5491.7		6160.6		6050.7	
	3019.1	12/11	2221.0		2992.1		5531.96		2.8 12 /			5834.2		5771.0		5204.7		6147.3		6058.8	1
2/19	3459.3	12/18	2174.2	12/17	2795.0	12/23	5492.3	12/20 626	6.7 12 /	4203.5	12/18	5918.7	12/17	5654.7	12/23	5191.8	12/22	5954.9	12/21	6205.7	
	3548.2		2061.4		2841.2		5529.4		9.9 12/	4042.8		5647.3		5667.0		5286.5		6058.8		6300.7	

Fair Value = 52-week forward earnings divided by 10-year government bond yield multiplied by 100.
Source: Board of Governers of the Federal Reserve System and \\B/E/S data by Refinitiv.

6566. 6352.2 6293.4 6253.6 6252.2 6294.4 6424.3 6445.1 6354.4 6410.8 6572.1 6751.0 7151.5 6918.4 6852.4 6704.3 6821.2 6882.6 7063.6 7283.8 7383.5 7900.5 8357.6 8288.7 8576.6 8721.8 8791.5 84211 8515.5 8515.9 8915.7 10200.6 11043.4 11027.6 11814.7 11661.4 10008.1 9873.3 10440.0 11105.0

		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019	
1/4	1443.6	1/2	898.8	1/1	1123.9	1/7	1272.8	1/6	1278.3	1/3	1453.6	1/2	1838.2	1/1	2072.0	1/7 1	1977.0	1/6	2268.6	1/5	2719.0	1/4	2499
1/11	1407.4	1/9	913.8	1/8	1138.7	1/14	1281.4	1/13	1290.0	1/10	1464.9	1/9	1836.5	1/8	2031.2	1/14	1911.0	1/13	2271.6	1/12	2760.2	1/11	2580
1/18	1365.8	1/16	855.71	1/15	1142.7	1/21	1285.1	1/20	1307.9	1/17	1476.5	1/16	1838.2	1/15	2014.9	1/21	1879.1	1/20	2268.7	1/19	2796.83	1/18	2623
1/25	1333.0	1/23	826.23	1/22	1124.1	1/28	1290.9	1/27	1318.3	1/24	1496.3	1/23	1826.9	1/22	2042.4	1/28 1	1899.5	1/27	2287.0	1/26	2844.35	1/25	2644
2/1	1369.2	1/30	845.48	1/29	1089.0	2/4	1303.1	2/3	1324.0	1/31	1504.3	1/30	1785.0	1/29	2021.0	2/4	1910.1	2/3	2283.5	212	2816.78	2/1	267
2/8	1342.4	2/6	842.1	2/5	1083.8	2/11	1323.1	2/10	1347.2	2/7	1509.3	2/6	1763.8	2/5	2046.1	2/11 1	1850.3	2/10	2300.9	2/9	2645.26	2/8	272
2/15	1350.8	2/13	838.56	2/12	1069.9	2/18	1336.0	2/17	1353.0	2/14	1519.6	2/13	1821.5	2/12	2073.9	2/18	1914.5	2/17	2342.7	2/16	2696.2	2/15	274
2/22	1351.1	2/20	781.65	2/19	1102.6	2/25	1312.2	2/24	1362.3	2/21	1515.2	2/20	1836.4	2/19	2101.9	2/25 1	1939.3	2/24	2364.8	2/23	2717.21	2122	278
2/29	1366.3	2/27	753.86	2/26	1103.1	3/4	1318.8	3/2	1369.8	2/28	1506.7	2/27	1850.3	2/26	2110.9	3/4	1978.1	3/3	2378.9	3/2	2721.33	3/1	27
3/7	1317.9	3/6	695.19	3/5	1122.9	3/11	1310.3	3/9	1359.4	3/7	1540.4	3/6	1869.7	3/5	2099.2	3/11 1	1996.4	3/10	2368.8	3/9	2740.28	3/8	276
3/14	1301.3	3/13	725.0	3/12	1145.0	3/18	1277.6	3/16	1393.6	3/14	1557.4	3/13	1860.1	3/12	2056.6	3/18 2	030.6	3/17	2376.8	3/16	2759.43	3/15	280
3/21	1308.8	3/20	775.8	3/19	1160.4	3/25	1302.6	3/23	1401.6	3/21	1552.4	3/20	1866.1	3/19	2090.5	3/25 2	043.5	3/24	2351.2	3/23	2674.74	3/22	282
3/28	1337.0	3/27	818.3	3/26	1168.0	4/1	1323.2	3/30	1409.3	3/28	1561.9	3/27	1856.5	3/26	2074.8	4/1 2	:057.7	3/31	2358.4	3/30	2629.26	3/29	281
4/4	1360.0	4/3	814.7	4/2	1173.5	4/8	1332.5	4/6	1407.4	4/4	1559.9	4/3	1880.5	4/2	2070.2	4/8 2	053.5	4/7	2357.0	4/6	2621.67	4/5	2875
4/11	1357.2	4/10	833.2	4/9	1188.0	4/15	1317.5	4/13	1373.5	4/11	1580.3	4/10	1843.6	4/9	2086.4	4/15 2	069.9	4/14	2346.2	4/13	2646.50	4/12	289
4/18	1356.7	4/17	857.4	4/16	1201.7	4/22	1321.4	4/20	1380.2	4/18	1555.2	4/17	1850.2	4/16	2096.2	4/22 2	2096.1	4/21	2346.8	4/20	2691.23	4/19	290
4/25	1386.1	4/24	848.8	4/23	1207.3	4/29	1352.5	4/27	1386.6	4/25	1577.5	4/24	1873.8	4/23	2107.3	4/29 2	083.2	4/28	2384.6	4/27	2656.22	4/26	292
5/2	1399.2	5/1	867.3	4/30	1196.1	5/6	1348.1	5/4	1393.3	5/2	1597.2	5/1	1879.3	4/30	2104.9	5/6 2	:060.7	5/5	2391.3	5/4	2646.33	5/3	293
5/9	1400.9	5/8	913.4		1156.2		1346.4		1359.9		1627.3	5/8	1876.9	5/7	2097.6	5/13 2	063.7	5/12	2396.3	5/11	2698.63	5/10	288
5/16	1412.8	5/15	895.5	5/14	1156.1	5/20	1335.2	5/18	1318.8	5/16	1652.2	5/15	1886.3	5/14	2019.4	5/20 2	050.8	5/19	2381.5	5/18	2719.43	5/17	284
5/23	1400.2	5/22	899.3	5/21	1106.4	5/27	1322.2	5/25	1318.0	5/23	1658.2	5/22	1887.8	5/21	2128.0	5/ 27 2	080.8	5/26	2405.5	5/25	2727.97	5/24	284
5/30	1393.7	5/29	907.3	5/28	1081.6	6/3	1318.2	6/1	1308.5	5/30	1648.4	5/29	1916.3	5/28	2114.0	6/3 2	2100.2	6/2	2423.5	6/1	2713.44	5/31	278
6/6	1381.1	6/5	940.4		1084.2	6/10	1282.1	6/8	1303.9	6/6	1629.3	6/5	1933.4	6/4	2104.8	6/10 :	2110.4	6/9	2432.8	6/8	2763.48	617	28
6/13	1351.1	6/12	942.4	6/11	1069.3	6/17	1272.9	6/15	1324.0	6/13	1628.9	6/12	1942.4	6/11	2093.5	6/17 2	075.0	6/16	2434.7	6/15	2781.33	6/14	288
6/20	1341.9		917.2		1110.6		1282.6		1343.8	6/20	1620.1		1951.8		2102.5	6/24 2	2081.7	6/23	2439.8	6/22	2761.66	6/21	292
6/27	1303.2		905.7		1090.2		1308.9		1331.4		1596.8		1958.1		2111.9		2061.8		2428.5		2714.89	6/28	292
7/4	1272.3	7/3	916.6		1039.3		1343.5	7/6	1365.5		1619.1		1973.4		2068.7		2104.0	7/7	2424.1		2734.09		298
7/11	1252.7	7/10	884.2	7/9	1059.1	7/15	1315.2	7/12	1345.4	7/11	1660.1	7/10	1969.3	7/9	2064.9	7/15 2	2153.4	7/14	2440.6	7/13	2790.33	7/12	299
7/18	1241.9	7/17	924.1		1086.1		1329.4	7/19	1365.9		1684.2		1973.7		2113.4	7/22 2	2168.8	7/21	2467.9	7/20	2805.98	7/19	299
7/25	1265.9		963.1		1084.1		1313.4		1354.5		1691.2		1982.1		2108.7	7/29 2	2169.6	7/28	2474.5	7/27	2825.94	7/26	300
8/1	1261.9		982.2		1107.6		1240.2		1379.2		1694.7		1955.0		2096.4		2167.8		2474.6		2819.96		298
8/8	1277.1	8/7	1003.7	8/6	1124.2	8/12	1152.8	8/9	1401.3	8/8	1696.9	8/7	1924.1	8/6	2090.5	8/12	2181.6	8/11	2461.9	8/10	2850.68	8/9	289
8/15	1294.4		1004.8	8/13	1100.2	8/19	1171.1		1409.5	8/15	1677.2	8/14	1945.5	8/13	2089.9	8/19 2	2184.3	8/18	2450.8	8/17	2834.22	8/16	287
8/22	1278.0		999.9		1082.7		1160.0		1411.6		1652.3		1984.1		2057.1	8/26 2	2177.3	8/25	2441.4		2862.70	8/23	290
8/29	1280.7		1028.3		1057.3		1204.1		1407.3		1628.7		1999.6		1935.6		2175.7		2459.3		2902.19	8/30	289
9/5	1257.9		1006.6		1074.6		1176.0		1419.6		1650.8		2002.1		1941.5		2170.4		2462.5		2883.76		294
9/12	1245.0		1036.4		1101.1		1189.8		1445.0		1683.3		1993.7		1956.2		2139.7		2495.8		2892.62		299
9/19	1204.9		1060.9		1123.7		1167.8		1460.4		1712.0		2001.3		1974.9		2156.8		2504.3		2912.30		300
9/26	1200.7		1058.5		1138.1		1156.2		1443.9		1696.5		1984.8		1942.4		2159.4		2506.0		2913.78		297
10/3	1129.5		1047.2		1144.4		1137.5			10/3	1687.9		1962.1		1912.2		2157.2		2540.6		2912.14		293
10/10	969.44		1058.0		1156.2		1205.2		1438.3		1676.8		1940.6					10/13	2550.9		2809.19		
10/17	959.24		1085.1		1172.6		1218.0		1449.3		1721.5		1872.8		2014.5			10/20	2563.1		2781.30		
10/24	924.42		1088.6		1178.4		1259.0			10/24	1751.5		1937.6		2042.2			10/27	2566.6		2703.39		
10/31	928.47		1055.1		1184.2		1244.8		1418.0		1763.1		1988.3		2079.2		2101.9		2579.0		2699.81		
11/7	952.14		1054.1		1204.6		1253.9		1399.5		1763.8		2023.3		2103.1			11/10	2588.6		2779.1		
11/14	891.0		1093.1		1213.6		1235.7		1364.7		1782.1		2039.1	11/12	2060.9	11/18	2178.1	11/17	2578.6	11/16	2723.3		
	813.78		1103.1		1190.2		1175.4		1393.7		1792.3		2051.6	11/19	2071.5	11/25 2	204.8	11/24	2595.2		2653.8		
11/28	873.28	11/27	1103.5	11/26	1191.6	12/2	1224.7	11/29	1409.5	11/28	1804.6	11/27	2069.2	11/26	2088.7	12/2 2	2197.6	12/1	2628.9	11/30	2719.5		
12/5	851.41	12/4	1103.9	12/3	1204.1	12/9	1253.2	12/6	1411.6	12/5	1795.8	12/4	2068.3	12/3	2080.8	12/9 2	232.8	12/8	2637.4	12/7	2704.9		
12/12	890.19	12/11	1100.0	12/10	1229.7	12/16	1221.9	12/13	1421.6	12/12	1788.8	12/11	2036.8	12/10	2050.6	12/16 2	260.4	12/15	2663.0	12/14	2635.2		
12/19	891.87	12/18	1106.0	12/17	1240.8	12/23	1241.9	12/20	1437.4	12/19	1801.2	12/18	2021.4	12/17	2037.2	12/23 2	264.6	12/22	2683.8	12/21	2496.62		
	898.78		1119.8		1254.3	12/30	1258.9		1416,76		1836.2					12/30 2	2251.7						

	e J.		500		/un	der Valu		Rat	<u> </u>									
2008		2009		2010		2011	2012		2013	2	2014	2015		2016	\rightarrow	2017	2018	2019
1/4	-44.7	1/2	-73.9	1/1	-44.7	1/7 -55.1	1/6	-76.33	1/3 -7	6.0 1/	/2 -54.	3 1/1	-64.37	1/7 -6	5.9	1/6 -58.52	2 1/5 -54.9	0 1/4 -61
1/11	-47.3	1/9	-69.7	1/8	-44.27	1/14 -55.5	1/13	-76.55	1/10 -7	5.5 1/	/9 -55.1	B 1/8	-67.89	1/14 -6	8.2	1/13 -59.42	2 1/12 -53.4	3 1/11 -59
1/18	-50.2	1/16	-73.52	1/15	-45.2	1/21 -55.1	1/20	-76.09	1/17 -7	5.7 1/	/16 -56.6	B 1/15	-70.14	1/21 -69	.49 1	1/20 -58.75	5 1/19 -52.5	4 1/18 -58
1/25	-53.2	1/23	-70.61	1/22	-48.1	1/28 -55.4	1/27	-75.33	1/24 -7	4.9 1/	/23 -57.5	5 1/22	-68.69	1/28 -69	.51	1/ 27 -57.64	1/26 -51.2	4 1/25 -57
2/1	-50.5	1/30	-66.43	1/29	-50.1	2/4 -53.2	2/3	-76.78	1/31 -7	3.2 1/	/30 -59.7	7 1/29	-71.1	2/4 -7	1.0	2/3 -57.55	5 2/2 -50.5	3 2/1 -57
2/8	-51.3	2/6	-63.1	2/5	-50.7	2/11 -50.7	2/10	-75.0	2/7 -7	3.4 2/	/6 -61.	2/5	-69.87	2/11 -7	4.5	2/10 -58.77	2/9 -52.9	2/8 -57
2/15	-50.2	2/13	-63.39	2/12	-51.2	2/18 -51.5	2/17	-75.18	2/14 -7	3.1 2/	/13 -58.5	7 2/12	-66.25	2/18 -72	.54	2/17 -56.83	2/16 -51.5	1 2/15 -57
2/22	-48.6	2/20	-67.54	2/19	-49.2	2/25 -54.4	2/24	-74.57	2/21 -7	3.4 2/	/20 -58.6	5 2/19	-63.88	2/25 -72	.62	2/24 -57.75	5 2/23 -50.6	3 2/22 -56
2/29	-49.0	2/27	-66.9	2/26	-50.2	3/4 -54.1	3/2	-75.05	2/28 -7	5.3 2/	/27 -59.	2/26	-65.61	3/4 -7	0.9	3/3 -56.8	3/2 -51.5	7 3/1 -56
3/7	-52.7	3/6	-69.5	3/5	-50.3	3/11 -54.8	3/9	-75.0	3/7 -7	3.7 3/	/6 -58.4	5 3/5	-63.84	3/11 -69	.22	3/10 -54.92	2 3/9 -51.0	1 3/8 -56
3/14	-53.3	3/13	-67.58	3/12	-48.3	3/18 -58.3	3/16	-71.67	3/14 -7	2.4 3/	/13 -58.5	B 3/12	-64.48	3/18 -68	.38	3/17 -54.87	3/16 -51.4	3/15 -57
3/21	-55.7	3/20	-67.0	3/19	-48.3	3/25 -56.5	3/23	-70.21	3/21 -7	3.9 3/	/20 -58.1	9 3/19	-66.15	3/25 -68	.52	3/24 -57.68	3/23 -52.6	3/22 -59
3/28	-53.4	3/27	-65.09	3/26	-46.6	4/1 -54.7	3/30	-71.39	3/28 -7	4.3 3/	/27 -58.7	4 3/26	-67.74	4/1 -69	.83	3/31 -58.0 4	3/30 -54.7	2 3/29 -60
4/4	-51.6	4/3	-64.53	4/2	-44.7	4/8 -53.7	4/6	-71.53	4/4 -7	5.5 4/	/3 -57.3	B 4/2	-68.33	4/8 -71	.24	4/7 -59.01	4/6 -55.0	3 4/5 -58
4/11	-51.8	4/10	-61.27	4/9	-43.8	4/15 -54.9	4/13	-74.47	4/11 -7	5.5 4/	/10 -59.7	4 4/9	-67.5	4/15 -70	.55	4/14 -60.26	4/13 -54.4	3 4/12 -
4/18	-50.0	4/17	-61.0	4/16	-44.6	4/22 -56.2	4/20	-75.0	4/18 -7	6.7 4/	/17 -59.7	8 4/16	-68.0	4/22 -6	9.0	4/ 21 -61.49	4/20 -52.4	3 4/19 -56
4/25	-46.7	4/24	-60.31		-45.9			-75.2		6.3 4/	/24 -58.7	5 4/23	-67.0	4/29 -6	8.4	4/28 -59.59	4/27 -51.5	3 4/26 -57
5/2	-45.9		-57.34		-47.7			-75.48		6.4 5/		2 4/30	-65.62		0.0			
5/9	-45.7		-53.11		-52.6			-77.0		4.2 5/			-63.16		.01			1 5/10 -59
5/16		5/15	-55.39		-53.2			-79.3		2.5 5/		5 5/14	-62.17		.19 :			7 5/17 -60
5/23	-46.1	5/22	-53.3		-58.0			-79.13		1.5 5/		6 5/21	-62.1		.32			5/24 -61
5/30	-43.6	5/29	-48.84	5/28	-60.1			-81.07		9.6 5/		6 5/28	-64.14		.96			9 5/31 -64
6/6	-45.0		-46.87		-59.3			-81.07		0.3 6/			-61.35		.57			
6/13	-44.2		-44.43		-61.1			-80.72		9.3 6/		7 6/11	-59.74		.58			3 6/14 -65
6/20		6/19	-47.87		-59.2			-80.19		7.8 6/		2 6/18	-61.32		.37		1	2 6/21 -65
6/27	-46.8		-50.66		-61.1			-80.37		5.3 6/		3 6/25	-59.71		.09			2 6/28 -66
7/4	-49.4		-51.66		-65.2			-80.28		4.7 7 /			-61.08		.13			
7/11	-49.4		-51.00		-65.2		7/12	-81.85		2.8 7 /			-61.08		.13			5 7/12 -64
7/18	-50.7		-51.5		-63.1		7/19	-81.29		3.8 7/		5 7/16	-60.37		10			5 7/19 -64
7/25	-48.0		-51.5		-63.2		7/26			3.2 7		2 7/23	-61.51		.00			5 7/26 -64
8/1	-48.8		-49.0		-63.2			-80.83		2.5 7		5 7/30	-61.51		.00			
8/8	-48.8		-45.08		-63.7			-79.13		2.4 8/			-63.54		.75 8			
8/15		8/14	-46.79		-66.8			-77.66		1.3 8/		1 8/13	-64.25		.44 8			9 8/16 -73
8/22	-50.4		-50.14		-69.2			-77.92		0.2 8/		1 8/20	-65.85		.43 8			5 8/23 -7 4
8/29	-50.9		-49.37		-70.5		8/30	-79.43		1.9 8/		2 8/27	-67.58		.34			5 8/30 -75
9/5	-53.2		-51.88		-69.7			-79.17		i9.5 9/			-66.9		.31			
9/12	-54.2		-50.12		-67.6			-77.29		8.8 9/		3 9/10	-66.21		.87 9			4 9/13 -70
9/19		9/18	-48.31		-66.6		9/20	-76.42		i0.1 9/		B 9/17	-65.71		.28			5 9/20 -69
9/26	-53.3		-49.24		-67.8			-78.39		2.2 9/		7 9/24	-67.15		.64			3 9/ 27 -71
10/3	-57.2	10/2	-52.3		-68.8		10/4	-78.5		2.7 10		9 10/1	-69.3		.78			3 10/4 -73
10/10	-62.9	10/9	-51.93				10/11	-78.15		2.5 10		5 10/8	-67.22				10/12 -48.9	
10/17	-59.0	10/16	-48.92	10/15	-68.4	10/21 -74.9	10/18	-77.0	10/17 -6	1.8 10	0/16 -68.	3 10/15	-67.82	10/21 -71	.08 1	10/20 -58.23	3 10/19 49.42	5
10/24	-62.3	10/23	-49.41				10/25			2.7 10		3 10/22	-66.82				3 10/26 -51.6	
10/31	-59.4	10/30	-50.51	10/29	-66.2	11/4 -75.8	11/1	-78.0	10/31 -6	2.3 10	0/30 -64.1	4 10/29	-65.49	11/4 -70	.68	11/3 -57.60	11/2 -51.6	5
11/7	-58.6	11/6	-50.38	11/5	-66.5	11/11 -75.9	11/8	-79.0	11/7 -6	i0.7 11	1/6 -62.8	4 11/5	-62.63	11/11 -67	.37	11/10 -57.98	3 11/9 -49.1	D
11/14	-60.9	11/13	-49.69	11/12	-65.4	11/18 -76.7	11/15	-80.67	11/14 -5	i9.5 1 1	1/13 -62.5	B 11/12	-62.41	11/18 -62	.39	11/17 -57.65	5 11/16 - 51.6	7
11/21	-67.6	11/20	-51.36	11/19	-63.5	11/25 -78.7	11/22	-79.27	11/21 -5	i9.3 1 1	1/20 -62.8	6 11/19	-63.22	11/25 -60	.68	11/24 -57.89	11/23 -53.6	1
11/28	-67.5	11/27	-52.3	11/26	-64.2	12/2 -76.7	11/29	-79.57	11/28 -5	i9.0 1 1	1/27 -63.8	3 11/26	-63.25	12/2 -60	.41	-57.23	11/30 -52.5	4
12/5	-72.4	12/4	-51.92	12/3	-62.8	12/9 -76.2	12/6	-79.68	12/5 -5	7.9 12	2/4 -63.3	7 12/3	-63.59	12/9 -59	.34	12/8 -57.19	12/7 -55.3	D
12/12	-70.5	12/11	-50.5	12/10	-58.9	12/16 -77.9	12/13	-78.7	12/12 -5	7.8 12	2/11 -65.0	9 12/10	-64.47	12/16 -56	.57	12/15 -56.68	12/14 -56.5	1
12/19	-74.2	12/18	49.1	12/17	-55.6		12/20	-77.06	12/19 -5	7.1 12	2/18 -65.8	5 12/17	-64.0	12/23 -56	.38	12/22 -54.93	12/21 -59.7	7
12/26	-75.5	12/25	-45.7	12/24			12/27	-77.93	12/26 -5	4.6 12	2/25 -63.1	2 12/24	-63.89				12/28 -61.1	4
				12/31	-55.7							12/31	-62.91					

A Ratio of S&P 500 index for 52-week forward earnings divided by 10-year government bond yield minus 100.
Source: Board of Governors of the Federal Reserve System and *IB/E/S* data by Refinitiv.

2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018	2019	
1/4	14.0	1/2	11.66		14.49		13.21		11.896		12.84		15.181		16.343		5.576		7.069		33 1/4	14.3
1/11	13.7	1/9	12.23	1/8	14.611	1/14	13.23	1/13	12.0	1/10	12.91	1/9	15.14	1/8	16.053	1/14 1	5.144	1/13 1	7.046		31 1/11	14.9
/18	13.4	1/16	11.51	1/15	14.586	1/21	13.12	1/20	12.197	1/17	12.99	1/16	15.145	1/15	16.052	1/21 1	4.954	1/20 1	6.975	1/19 18.	32 1/18	15.2
/25	13.1	1/23	11.481	1/22	14.25	1/28	13.13	1/27	12.274	1/24	13.22	1/23	15.051	1/22	16.386	1/28 1	5.244	1/27 1	7.081	1/26 18.	39 1/25	15.3
2/1	13.5	1/30	12.207	1/29	13.63	2/4	13.22	2/3	12.35	1/31	13.28	1/30	14.736	1/29	16.328	2/4 1	5.363	2/3 1	7.115	2/2 17.	96 2/1	15.5
2/8	13.3	2/6	12.62	2/5	13.46	2/11	13.40	2/10 1	12.577	2/7	13.3	2/6	14.557	2/5	16.645	2/11 1/	4.925	2/10 1	7.253	2/9 16.	56 2/8	15.8
2/15	13.4	2/13	12.713	2/12	13.24	2/18	13.48	2/17	12.60	2/14	13.36	2/13	15.028	2/12	16.892	2/18 1	5.428	2/17 1	7.550	2/16 16.	39 2/15	16.0
2/22	13.4	2/20	11.803	2/19	13.59	2/25	13.19	2/24 1	12.651	2/21	13.31	2/20	15.147	2/19	17.116	2/25 1	5.645	2/24 1	7.677	2/23 16.	2/22	16.3
2/29	13.5	2/27	11.4	2/26	13.49	3/4	13.22	3/2	12.66	2/28	13.14	2/27	15.239	2/26	17.109	3/4 1	5.975	3/3 1	7.778	3/2 16.	93 3/1	16.3
3/7	13.1	3/6	10.5	3/5	13.69	3/11	13.06	3/9	12.52	3/7	13.42	3/6	15.33	3/5	16.974	3/11 1	6.116	3/10 1	7.679	3/9 17.	00 3/8	16.
3/14	13.0	3/13	11.1	3/12	13.91	3/18	12.66	3/16 1	12.817	3/14	13.54	3/13	15.229	3/12	16.60	3/18	16.38	3/17 1	7.697	3/16 17.	09 3/15	16.
3/21	13.6	3/20	12.0	3/19	14.06	3/25	12.87	3/23	12.84	3/21	13.47	3/20	15.26	3/19	16.924	3/25 1	6.481	3/24 1	7.486	3/23 16.	56 3/22	16.
3/28	13.2	3/27	12.7	3/26	14.08	4/1	13.05	3/30 1	12.885	3/28	13.51	3/27	15.169	3/26	16.63	4/1 1	6.577	3/31 1	7.485	3/30 16.	23 3/29	16.
4/4	13.6	4/3	12.9	4/2	14.21	4/8	13.09	4/6	12.88	4/4	13.52	4/3	15.385	4/2	16.581	4/8 1	6.529	4/7 1	7.441	4/6 16.	16 4/5	16.
4/11	13.6	4/10	13.2	4/9	14.27	4/15	12.85	4/13 1	12.515	4/11	13.70	4/10	15.021	4/9	16.84	4/15	16.64	4/14 1	7.279	4/13 16.	28 4/12	16.
4/18	13.6	4/17	13.6	4/16	14.38	4/22	12.83	4/20 1	12.509	4/18	13.46	4/17	15.065	4/16	16.861	4/22 1	6.832	4/21 1	7.268	4/20 16.	49 4/19	16.
4/25	14.0	4/24	13.4	4/23	14.21	4/29	13.04	4/27 1	12.523	4/25	13.70	4/24	15.22	4/23	16.993	4/29 1	6.806	4/28	17.50	4/27 16.	21 4/26	16.
5/2	14.1	5/1	13.8		13.91	5/6	12.92	5/4 1	12.576	5/2	13.86		15.143		16.937		6.569		17.47		99 5/3	16.
5/9	14.1	5/8	14.5	5/7	13.32	5/13	12.83	5/11 1	12.253	5/9	14.09	5/8	15.08	5/7	16.824	5/13 1	6.563	5/12	17.46	5/11 16.	26 5/10	16.
5/16	14.2	5/15	14.2	5/14	13.23	5/20	12.71	5/18	11.88	5/16	14.27	5/15	15.115	5/14	16.889	5/20 1	6.381	5/19	17.33	5/18 16.	26 5/17	16.
5/23	14.0	5/22	14.2		12.61	5/27	12.54	5/25	11.855	5/23	14.30	5/22	15.092	5/21	17.00	5/27 1	6.581	5/26	17.44		31 5/24	16
5/30	14.0	5/29	14.3	5/28	12.29	6/3	12.47	6/1 1	11.759	5/30	14.19	5/29	15.28	5/28	16.837	6/3 1	6.686	6/2	17.54	6/1 16.	19 5/31	15
6/6	13.8	6/5	14.4	6/4	12.29	6/10	12.10	6/8 1	11.734	6/6	14.00	6/5	15.40	6/4	16.73	6/10 1	6.721	6/9	17.58	6/8 16.	46 6/7	16
6/13	13.4	6/12	14.3	6/11	12.08	6/17	12.00	6/15 1	11.901	6/13	13.94	6/12	15.429	6/11	16.636		6.407	6/16	17.53	6/15 16.	52 6/14	16
5/20	13.4	6/19	13.9	6/18	12.52	6/24	12.07	6/22	12.07	6/20	13.83	6/19	15.466	6/18	16.67	6/24 1	6.445	6/23	17.55	6/22 16.	38 6/21	16
6/27	13.0	6/26	13.6		12.27		12.34		11.968		13.63		15.513		16.718		6.265		17.43		6 6/28	16
7/4	12.7	7/3	13.7	7/2	11.65		12.68		12.247	7/4	13.80		15.585	7/2	16.351	7/8 1	6.571	7/7	17.36	7/6 16.	14 7/5	16
/11	12.4	7/10	13.1		11.85		12.40		12.094		14.09		15.52		16.285		6.949		17.47		43 7/12	17
7/18		7/17	13.7		12.10		12.43		12.308		14.27		15.514		16.652		7.024		17.67		48 7/19	16
7/25	12.7	7/24	14.1	7/23	12.04		12.22		12.259	7/25	14.30		15.534	7/23	16.59	7/29 1	6.992	7/28	17.71	7/27 16.	53 7/26	17
8/1	12.7	7/31	14.3		12.22		11.50		12.448		14.26		15.276		16.455		6.952		17.63		40 8/2	16
8/8	12.8	8/7	14.6		12 34		10.67		12 645		14.35		15 006		16.421		7 045		17.51		54 8/9	16
8/15	13.1	8/14	14.5		12.04		10.84		12.692	8/15	14.15		15.139	8/13	16.40		7.024	8/18	17.40		41 8/16	16
8/22	12.9	8/21	14.3		11.82		10.76		12.691		13.91		15.431		16.106		6.924		17.30		55 8/23	16
8/29	13.0	8/28	14.6		11.51		11.15		12 6 18		13.80		15.528		15 148		6 874		17 40		74 8/30	16.
9/5	12.7	9/4	14.3	9/3	11.68		10.89		12.70	9/5	13.87		15.51		15.184	9/9 1	6.787	9/8	17.39	9/7 16	59 9/6	16
9/12	12.5	9/11	14.6		11.94		11.03		12.90		14.11		15.42		15.289		6.547		17.62		61 9/13	16.
9/19	12.1	9/18	14.9		12.19		10.84		13.03		14.32		15.446		15.444		6.693		17.68		7 9/20	16
9/26	12.2	9/25	14.8		12.35		10.74		12.864		14.20		15.343		15.209		6.681		17.65		71 9/27	16.
10/3	11.6	10/2	14.5		12.39		10.57		12.876		14.11		15.147		14.976		6.596		17.86		67 10/4	1
0/10	10.1	10/2	14.7		12.49		11.26		12.776		14.00		14.977		15.682		6.480		17.91			
0/17	10.2	10/16		10/15	12.63		11.41		12.846		14.38		14.477		15.85		6.430		17.93			
0/24	10.2	10/23		10/22	12.63		11.81		12.60		14.61		15.051		16.106		6.402		17.94			
0/31	10.4	10/20		10/22	12.64		11.67		12.635		14.67		15.455		16.357		6.107		17.96			
11/7	10.4	11/6	14.1		12.83		11.74		12.033		14.66		15.745		16.534		6.476		17.96			
1/14	10.3	11/13		11/12	12.00		11.55		12.474		14.80		15.854		16.203		6.639		17.90			
1/21	9.6	11/20		11/19	12.90		10.97		12.156		14.87		15.939		16.275		6.801		17.92			
1/21		11/20		11/19	12.62		11.43		12.411		14.07		16.075		16.40		6.703		17.92			
12/5	10.4	12/4	14.4		12.71		11.67		12.541		14.83		16.138		16.328		6.940		18.14			
2/12	11.0	12/11		12/10	12.92		11.39		12.606		14.75		15.941		16.077				18.28			
2/19	11.4	12/18		12/17	12.98		11.60		12.742		14.83		15.959		16.011		7.105		18.32			
2/26	11.2	12/25	14.4	12/24	13.10	12/30	11.74	12/27 1	12.538	12/26	15.19	12/25	16.465	12/24	16.12	12/30 1	6.969	12/29	18.21	12/28 14.	08	

* 52-week forward consensus expected S&P 500 operating earnings per share.

Tabl	e 7:	"Faiı	r-Val	ue"	S&P	500	P/E	=Reci	pro	cal o	f 10	-Year	U.S	5. Trea	asu	ry Not	e١	'ield (wee	ekly)			
2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019	
1/4	23.4	1/2	44.64	1/1	26.11	1/7	29.41	1/6	50.25	1/3	53.48	1/2	33.22	1/1	45.87	1/7 4	15.66	1/6	41.15	1/5	40.65	1/4	37.74
1/11	26.0	1/9	40.32	1/8	26.11	1/14	29.76	1/13	51.28	1/10	52.63	1/9	33.78	1/8	50.00	1/14 47	619	1/13	42.02	1/12	39.37	1/11	36.7
1/18	26.9	1/16	43.48	1/15	26.53	1/21	29.24	1/20	51.02	1/17	53.48	1/16	34.97	1/15	53.76	1/21 4	9.02	1/20	41.15	1/19	38.61	1/18	36.
1/25	27.9	1/23	39.06	1/22	27.32	1/28	29.41	1/27	49.75	1/24	52.63	1/23	35.46	1/22	54.05	1/28	50.00	1/27	40.32	1/26	37.74	1/25	36.3
2/1	27.3	1/30	36.36	1/29	27.32	2/4	28.25	2/3	53.19	1/31	49.50	1/30	36.63	1/29	56.50	2/4	52.91	2/3	40.32	2/2	36.36	2/1	37.04
2/8	27.3	2/6	34.25	2/5	27.32	2/11	27.17	2/10	50.25	2/7	50.00	2/6	37.31	2/5	55.25	2/11	58.48	2/10	41.84	2/9	35.46	2/8	37.3
2/15	26.9	2/13	34.72	2/12	27.10	2/18	27.78	2/17	50.76	2/14	49.75	2/13	36.36	2/12	50.00	2/18 56	6.179	2/17	40.65	2/16	34.84	2/15	37.4
2/22	26.0	2/20	36.36	2/19	26.74	2/25	28.90	2/24	49.75	2/21	50.00	2/20	36.63	2/19	47.39	2/25	57.14	2/24	41.84	2/23	34.36	2/22	37.5
2/29	26.5	2/27	34.36	2/26	27.10	3/4	28.82	3/2	50.76	2/28	53.19	2/27	37.17	2/26	49.75	3/4 5	64.95	3/3	41.15	3/2	34.97	3/1	37.0
3/7	27.7	3/6	34.48	3/5	27.55	3/11	28.90	3/9	50.00	3/7	51.02	3/6	36.90	3/5	46.95	3/11 8	52.36	3/10	39.22	3/9	34.72	3/8	37.3
3/14	28.5	3/13	34.25	3/12	26.88	3/18	30.40	3/16	42.25	3/14	49.02	3/13	36.76	3/12	46.73	3/18	51.81	3/17	39.22	3/16	35.21	3/15	38.1
3/21	29.5	3/20	36.36	3/19	27.17	3/25	29.59	3/23	43.10	3/21	51.55	3/20	36.50	3/19	50.00	3/25	52.36	3/24	41.32	3/23	34.97	3/22	39.2
3/28	28.4	3/27	36.50	3/26	26.39	4/1	28.82	3/30	45.05	3/28	52.63	3/27	36.76	3/26	51.55	4/1 :	64.95	3/31	41.67	3/30	35.84	3/29	41.4
4/4	28.2	4/3	36.23	4/2	25.71	4/8	28.25	4/6	45.25	4/4	55.25	4/3	36.10	4/2	52.36	4/8 5	57.47	4/7	42.55	4/6	35.97	4/5	40.00
4/11	28.2	4/10	34.13	4/9	25.38	4/15	28.49	4/13	49.02	4/11	55.87	4/10	37.31	4/9	51.81	4/15	56.5	4/14	43.48	4/13	35.71	4/12	39.6
4/18	27.2	4/17	34.84	4/16	25.97	4/22	29.33	4/20	50.00	4/18	57.80	4/17	37.45	4/16	52.63	4/22	54.3	4/21	44.84	4/20	34.72	4/19	38.7
4/25	26.3	4/24	33.78		26.25	4/29	29.76	4/27	50.51	4/25	57.80	4/24	36.9	4/23	51.55	4/29	53.19	4/28	43.29	4/27	33.44	4/26	39.2
5/2	26.1	5/1	32.26	4/30	26.60	5/6	30.86	5/4	51.28	5/2	58.82	5/1	37.59	4/30	49.26	5/6	5.25	5/5	42.92	5/4	33.78	5/3	39.5
5/9	26.0	5/8	30.96	5/7	28.09	5/13	31.25	5/11	53.19	5/9	54.64	5/8	38.17	5/7	45.66	5/13	57.14	5/12	41.84	5/11	33.67	5/10	40.49
5/16	25.9	5/15	31.85	5/14	28.25	5/20	31.75	5/18	57.47	5/16	51.81	5/15	38.91	5/14	44.64			5/19	44.05		32.57		41.6
5/23	26.0	5/22	30.40		3030	5/27	32.26		56.82	5/23	50.25	5/22	39.37	5/21	44.84			5/26	44.25		33.22	5/24	42.1
5/30	24.8	5/29	27.86	5/28	30.77	6/3	33.22	6/1	62.11	5/30	46.73	5/29	40.49	5/28	46.94	6/3 5	5.56	6/2	45.45	6/1	35.33	5/31	45.0
6/6	25.1	6/5	27.03		30.21	6/10	33.33	6/8	62.11	6/6	47.17	6/5	38.61	6/4	43.29		58.82		45.87	6/8	34.01	6/7	47.6
6/13	24.1	6/12	25.71		31.06		33,44		61.73		45.45		38.17		41.32		2.11	6/16	45.87		33.89		47.1
6/20	23.8	6/19	26.66	6/18	30.67	6/24	33.78		60.98		42.92	6/19	38.02	6/18	43.1			6/23	46.3		34.36		48.78
6/27	24.4	6/26	27.55		31.55		32.15		60.98	6/27	39.22		38.91		41.49			6/30	44.84		35.08		49.50
7/4	25.0	7/3	28.33		33.44		32.05		62.11		39.06		38.46		42.02		2.46		42.37		35.21	7/5	50.00
7/11	25.6	7/10	29.24		33.11		34.01		65.79		37.88		38.91	7/9	43.29		6 23	7/14	42.55		35.08		47.8
7/18	25.1	7/17	28.17		32.79		33.67		65.79		39.37		39.53		42.02			7/21	44.05		34.96		48.3
7/25	24.3	7/24	27.62		33.67		33.67		68.02		38.91		40.16		43.10			7/28	43.48		33 78		48.3
8/1	24.8	7/31	27.25		33.11		38.17		64.94		37.87		39.53		44.44		64.94		44.05	8/3	33.67	8/2	50.5
8/8	25.1	8/7	26.53		34.01		44.05		60.61		38.16		40.49		45.05			8/11	44.64		34.01		57.0
8/15	25.6	8/14	27.25		36.23		46.08		56.82		36.63		41.49		45.87			8/18	45.05		34.84		62.50
8/22	26.1	8/21	28.74		38.31		45.66		57.47		34.97		41.49		47.17			8/25	45.66		35.33		63.2
8/29	26.4	8/28	28.90		39.06		46.08		61.35		36.23		42.19		46.73		3.29		46.73		34.84		66.67
9/5	27.1	9/4	29.67		38.61		50.25		60.98		34.25		40.98		45.87		2 89		48.31		34.36		65.7
9/12	27.3	9/11	29.33		36.90		49.26		56.82		34.25		39.37		45.25			9/15	45.87		33.67		56.8
9/19	28.2	9/18	28.90		36.50		53.48		55.25		35.84		38.31		45.05			9/22	44.25		32.78		55.5
9/26	26.0	9/25	29.15		38.31		50.76		59.52		37.59		39.22		46.30			9/29	44.25		32.57		58.8
5/26 10/3	26.0	9/25	29.15		39.68		51.81		59.52 59.88		37.88		40.49		48.78			10/6	43.80		32.57 31.84		62.50
10/3	27.0	10/2	30.49		40.82		45.05			10/3	37.31				48.78			10/0			31.84	.0.4	52.00
10/10	24.9	10/9	29.15		40.82		45.45			10/10	37.59			10/8	47.85			10/13			31.45		
10/17	24.9	10/16			39.37		43.85			10/17	39.22			10/15							31.45		
10/24	25.5	10/23	29.15 28.65		39.37		43.85 48.31		55.24 57.47		39.22			10/22				10/27	41.32				
10/31		10/30							57.47 59.52						47.39			11/3			31.85 31.15		
	26.2		28.33		38.31		48.78				37.31		42.37		44.25			11/10	42.74				
11/14	26.5	11/13	28.74		37.31		49.50			11/14		11/13		11/12				11/17			32.15		
11/21	29.6	11/20	29.85			11/25	51.54			11/21		11/20		11/19	44.25			11/24			32.68		
11/28	32.3	11/27	30.30		35.21		49.02			11/28		11/27		11/26	44.64			12/1			32.79		
12/5	37.6	12/4	29.94		34.13		49.02		61.73		35.21		44.05		44.84			12/8	42.37		34.48		
12/12	37.5	12/11	28.82		31.45		51.55		59.17		34.97			12/10	45.25			12/15		12/14	34.6		
12/19	44.2	12/18	28.09		29.24		51.28			12/19		12/18		12/17	44.44			12/22			35.59		
12/26	45.9	12/25	26.59		29.67	12/30	51.55	12/27	56.82	12/26	33.44	12/25	44.64	12/24		12/30 39	.840	12/29	41.15	12/28	36.23		
				12/31	29.59									12/31	43.67								

Source: Board of Governors of the Federal Reserve System.

	• •.	JOR	400	TOTW	ard	⊂arnir	ig:	s (wee	:vi)	aso	I FI		uo		pers	snare)	analy	รเร	Estimat	5	
2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018	2019)
1/4	55.13	1/2	46.75	1/1	44.72	1/7 5	7.3	1/6 6	65.97	1/3	70.06	1/2	77.87	1/1	85.41	1/7	84.8	1/6	89.21	1/5 104.50	0 1/3	124.
1/11	54.97	1/9	46.21	1/8	45.94	1/14 5	7.6	1/13 6	65.97	1/10	70.11	1/9	78.01	1/8	85.38	1/14	84.46	1/13	89.82	1/12 106.3	7 1/10	123.
1/18	54.75	1/16	45.09	1/15	45.23	1/21 5	7.8	1/20 6	56.04	1/17	70.20	1/16	78.43	1/15	85.17	1/21	84.72	1/20	89.96	1/19 107.70	1/17	122.
1/25	54.76	1/23	44.81	1/22	45.61	1/28 58	.19	1/27 6	65.64	1/24	70.31	1/23	78.64	1/22	84.9	1/28	84.14	1/27	90.1	1/26 108.9	9 1/24	122.6
2/1	54.60	1/30	43.71	1/29	45.96	2/4 58	.36	2/3 6	65.53	1/31	7042	1/30	78.60	1/29	84.54	2/4	83.57	2/3	90.32	2/2 110.1	1 1/31	122
2/8	54.46	2/6	42.01	2/5	46.47	2/11 58	.50	2/10 6	65.27	217	70.53	2/6	78.48	2/5	83.90	2/11	83.43	2/10	90.18	2/9 111.4	1 2/7	121
2/15	54.29	2/13	41.02	2/12	46.59	2/18 58	.76	2/17 6	65.57	2/14	70.81	2/13	78.48	2/12	83.47	2/18	83.09	2/17	90.41	2/16 111.3	2/14	121.
2/22	54.47		40.87		46.76		.08		65.81		70.87		78.31		83.26	2/25	82.02		90.5		2 2/21	121
2/29	54.33		40.78		46.98		.06		65.96		70.93		78.41		83.26		83.10		91.03		4 2/28	121.
3/7	54.30		40.55		47.13		.29		66.07		70.75		78.87		83.35		83.07		91.68			121.
3/14	54.23				47.11						70.80											
3/21	54.25		39.90 39.59		47.11		.39		56.01				79.01		83.31		83.13		91.95			121
							.45		56.14		70.82		79.14		83.39		83.22				1 3/21	121
3/28	54.75		39.51		47.47		.20		66.47		70.95		79.12		83.24		83.37		92.97		5 3/28	121.
4/4	54.53		38.73		47.97		.29		66.85		71.13		78.62		83.34		83.9		93.09			122.
4/11	54.65		38.64		48.47		.49		67.09		71.64		78.79		82.99		84.05		93.37		3 4/11	120.
4/18	54.66		38.50	4/16	48.78		.67		67.27	4/18	71.69	4/17	78.98	4/16	83.22	4/22	84.34	4/21	93.9	4/20 115.0	6 4/18	122.
4/25	54.77	4/24	38.40	4/23	49.10	4/29 61	.38	4/27 6	67.68	4/25	71.90	4/24	79.23	4/23	82.95	4/29	84.55	4/28	94.31	4/27 115.9	4/25	123.
5/2	54.84	5/1	37.91	4/30	49.51	5/6 61.	.72	5/4 6	67.65	5/2	72.07	5/1	79.58	4/30	82.79	5/6	84.77	5/5	94.42	5/4 116.10	5/2	123.
5/9	55.12	5/8	37.79	5/7	49.91	5/13 62	.04	5/11 6	67.86	5/9	72.33	5/8	80.49	5/7	82.16	5/13	85.02	5/12	94.66	5/11 116.8	3 5/9	123.
5/16	55.92	5/15	38.01	5/14	50.31	5/20 62	.35	5/18 6	68.03	5/16	72.78	5/15	80.68	5/14	82.47	5/20	84.80	5/19	95.49	5/18 118.00	5/16	12
5/23	55.58	5/22	38.16	5/21	50.79	5/27 62	.58	5/25 6	68.27	5/23	72.91	5/22	80.86	5/21	82.75	5/27	85.06	5/26	95.74	5/25 117.0	5/23	122
5/30	56.06	5/29	38.32	5/28	51.05	6/3 62	.94	6/1 6	68.45	5/30	73.28	5/29	81.06	5/28	83.28	6/3	85.48	6/2	95.77	6/1 117.9	5/30	123
6/6	56.68	6/5	38.59	6/4	51.41	6/10 63.	.22	6/8 6	58.24	6/6	73.35	6/5	81.33	6/4	83.59	6/10	85.6	6/9	96.15	6/8 119.3	2 6/6	123
6/13	56.96	6/12	38.73		51.58		.46		58.29		73.53		81.61		83.64		85.78		96.54		4 6/13	12
6/20	56.95		38.59		51.70		.51		58.21		73.61		81.85		83.53		85.71		96.96		6/20	123
6/27	57.17		39.24		51.79		.67		58.24		73.69		82.01		83.65		85.81		97.11		2 6/27	123.
7/4	57.51		39.24		52.44		.10		59.01		73.92		82.18		83.78		86.09		97.14			123
7/11	58.05		39.63		52.49		.31		68.95		73.98		82.25		84.18		85.97		97.22		7/11	12
7/18	58.31		39.68		52.52		.29		68.88		74.08		82.64		84.1		86.11		97.29		2 7/18	123.
7/25	58.45		39.87		52.64		.31		68.89		74.32		82.77		84.48		86.19		97.38		4 7/25	123,6
8/1	58.06		40.27	7/30	52.90		.46		68.72	8/1	74.45	7/31	82.96	7/30	84.38	8/5	86.47	8/4	98.55	8/3 120.0	6 8/1	123,3
8/8	58.29	8/7	40.62	8/6	53.30	8/12 64	.39	8/9 6	68.69	8/8	74.34	8/7	83.21	8/6	84.36	8/12	86.55	8/11	98.63	8/10 121.3	2 8/8	122
8/15	58.10	8/14	40.91	8/13	53.53	8/19 64	.59	8/16 6	6 <mark>8.6</mark> 6	8/15	74.30	8/14	83.18	8/13	84.62	8/19	86.60	8/18	98.57	8/17 121.3	3 8/15	12
8/22	58.17	8/21	41.04	8/20	53.78	8/26 64	.77	8/23 6	68.77	8/22	74.42	8/21	83.61	8/20	84.91	8/26	87.07	8/25	98.83	8/24 122.3	3 8/22	123.
8/29	57.87	8/28	41.34	8/27	53.94	9/2 65	.02	8/30 6	68.86	8/29	74.39	8/28	83.55	8/27	85.05	9/2	87.17	9/1	98.98	8/31 122.5	5 8/29	122.
9/5	58.04	9/4	41.64	9/3	54.08	9/9 65	.11	9/6 6	68.93	9/5	74.56	9/4	84.06	9/3	84.81	9/9	87.59	9/8	99.16	9/7 123.0	9/5	122.
9/12	58.16	9/11	41.86	9/10	54.23	9/16 65.	.07	9/13 6	69.15	9/12	74,77	9/11	84.38	9/10	84.88	9/16	87.70	9/15	99.32	9/14 123.3	2 9/12	12
9/19	58.34	9/18	41.77	9/17	54.26	9/23 64	.81		59.28		74.84	9/18	84.51	9/17	84.88	9/23	88	9/22	99.63	9/21 122.3	3 9/19	122
9/26	58.06		42.13		54.25		.91		69.50		76.31		84.25		84.79		87.93	9/29	99.95	9/28 123	4 9/26	120
10/3	57.90		42.29		54.46		.01		59.32		76.44		84.30		84.89		87.9		100.1		6 10/3	120.
10/10	57.52		42.51		54.36						76.64		84.26		85.02		88.03		100.1			.20
10/17	56.22		42.59		54.46						76.85			10/15	85.01			10/20	100.40			
10/24	54.95		43.10		54.55						76.80			10/22		10/28		10/27	100.8			
10/31	53.47		43.18		54.81		.80				76.93			10/29	84.50		88.01		101.1			
11/7	52.19		43.44		55.00		.91		5 <mark>8.9</mark> 5		77.00		84.35		84.22	11/11	87.99		101.3	11/9 124.3	3	
11/14	51.48	11/13	43.85	11/12	55.28	11/18 65	.19	11/15 6	59.14	11/14	77.17	11/13	84.6	11/12	84.19	11/18	87.94	11/17	101.4	11/16 124.4	4	
11/21	51.17	11/20	44.10	11/19	55.55	11/25 6	5.5	11/22 0	59.18	11/21	77.34	11/20	84.73	11/19	84.42	11/25	88.09	11/24	101.6	11/23 124.1	1	
11/28	50.29	11/27	44.33	11/26	55.79	12/2 65	.59	11/29 6	59.27	11/28	77.48	11/27	84.89	11/26	84.37	12/2	88.17	12/1	102.1	11/30 124.3	2	
12/5	49.67	12/4	44.45	12/3	56.00	12/9 65	.68	12/6 6	59.40	12/5	76.79	12/4	84.93	12/3	84.61	12/9	88.39	12/8	102.9	12/7 124.60	b	
12/12	48.59		44.85		56.21						77.02			12/10		12/16	88.71		103.1			
	47.20		44.96		56.46						77.10			12/17		12/23	88.84		103.3			
															01.00		50.04					
12/19		12/25	44.75	12/24	56.92	12/30 65	75	12/27 6	80.84	12/26	77.63	12/25	84.71	12/24	84.26	12/30	80.00	12/29	103.8	12/28 123.9		

															per	share)							
2008		2009		2010		2011		2012		2013	:	2014		2015		2016		2017		2018		2019	
1/4	33.14		11.88		28.15		31.06		17.69		19.5 1		40.2		31.9	1/7	29.6	1/6	40.9	1/5 4	7.38	1/4	43.9
1/11	30.92	1/9	13.53	1/8	28.51	1/14	31.02	1/13	17.68	1/10 20	0.05 1	/9	39.6	1/8	28.7	1/14	27.1	1/13	40.0	1/12 4	9.52	1/11	47.3
1/18	28.92	1/16	11.79	1/15	28.21	1/21	31.59	1/20	18.10	1/17 19	9.94 1	/16 :	38.49	1/15	26.5	1/21	25.8	1/20	40.7	1/19 5	0.86	1/18	48.7
1/25	27.50	1/23	12.75	1/22	27.06	1/28	31.48	1/27	18.85	1/24 20	0.65 1	/23	37.89	1/22	26.7	1/28	25.7	1/27	42.1	1/26 5	2.76	1/25	48.4
2/1	29.36	1/30	14.07	1/29	26.21	2/4	33.17	2/3	17.88	1/31 22	2.12 1	/30	35.76	1/29	25.7	2/4	24.5	2/3	41.9	2/2 5	3.71	2/1	49.3
2/8	29.15	2/6	14.89	2/5	25.98	2/11	35.29	2/10	19.32	217 22	2.03 2	/6 :	34.45	2/5	26.6	2/11	21.4	2/10	40.7	2/9 5	1.88	2/8	49.8
2/15	29.77	2/13	14.73	2/12	25.98	2/18	35.17	2/17	19.26	2/14 22	2.38 2	/13 :	36.61	2/12	29.7	2/18	23.2	2/17	42.6	2/16 5	3.72	2/15	50.4
2/22	30.81	2/20	13.06		27.46		32.99		19.74		2.12 2		36.94			2/25		2/24	41.6		4.98		51.1
2/29	30.74	2/27	13.27		27.19	3/4	33.42	3/2	19.34	2/28 20	0.58 2		36.80		30.4		25.0		42.3		3.79	3/1	51.8
3/7	28.12		12.14		27.56		33.12		19.42		1.91 3		37.49		32.0	3/11		3/10	43.7		5.31		50.5
3/14	26.79		12.75		28.94		30.94		21.99		3.19 3		37.28			3/18		3/17			4.98		49.5
3/21	25.81		12.75		29.05		32.47		23.06		2.09 3		37.81		30.4			3/24			54.2		48.2
3/28	27.62		13.63		30.03		34.09		22.16		1.76 3		37.01		29.4			3/31			2.06		45.2
4/4	28.54		13.83		30.87		35.27		21.95		0.50 4		38.34		29.1		24.9		40.1		1.81		48.2
4/11	28.69		15.12		31.95		34.28		19.67		0.47 4		35.99		29.6			4/14			2.61		49.0
4/18	29.96	4/17	15.39	4/16	31.7	4/22	33.43	4/20	19.50	4/18 19	9.30 4	/17	35.76	4/16	29.1	4/22	27.1	4/21	38.1	4/20 5	5.05	4/19	50.4
4/25	31.70		15.87	4/23	31.77		33.86		19.46		9.68 4		36.82	4/23	29.7	4/29	27.7	4/28	40.3	4/27 5	6.59	4/26	50.1
5/2	32.36	5/1	17.18	4/30	31.3	5/6	32.23	5/4	19.22	5/2 19	9.60 5	/1 :	36.00	4/30	30.8	5/6	26.3	5/5	40.4	5/4 5	5.64	5/3	49.7
5/9	32.81	5/8	18.71	5/7	28.37	5/13	32.02	5/11	18.15	5/9 21	1.64 5	/8 :	35.50	5/7	33.0	5/13	25.5	5/12	41.3	5/11 5	7.15	5/10	47.9
5/16	33.72	5/15	17.46	5/14	28.38	5/20	31.10	5/18	16.23	5/16 23	3.18 5	/15	34.94	5/14	34.1	5/20	26.2	5/19	38.9	5/18 5	9.56	5/17	45.4
5/23	33.44	5/22	18.45	5/21	25.5	5/27	30.32	5/25	16.39	5/23 23	3.89 5	/22 :	34.48	5/21	34.4	5/27	27.3	5/26	39.0	5/25 5	8.75	5/24	44.4
5/30	35.23	5/29	20.43	5/28	24.45	6/3	29.43	6/1	14.88	5/30 25	5.48 5	/29	34.03	5/28	32.6	6/3	27.0	6/2	38.17	6/1 5	5.26	5/31	40.6
6/6	35.00		22.03	6/4	24.9	6/10	28.31	6/8	14.68	6/6 24	4.85 6	/5	36.07	6/4	35.3		25.8	6/9	38.04	6/8 5	8.35	6/7	39.2
6/13	35.76		23.19		23.72		27.93		14.77		5.75 6		36.85		36.9				38.35		8.90		40.3
6/20	36.41		21.59		25.22		28.13		15.19		7.10 6		37.27		35.6				37 69		7 99		39.4
6/27	34.32		20.51		23.8		30.24		15.01		9.24 6		36.52		37.1				38.95		5.69		38.7
7/4	32.21		20.37		21.42		31.31		15.35		0.08 7		37.43		35.8		20.6		41.22		5.91		39.1
7/11	30.76		18.83		21.87		28.76		14.23		1.83 7		36.49		34.6				41.22		7.01		40.7
7/18	31.42		20.50		22.70		29.15		14.35		1.14 7		35.66		36.1				40.24		7.14		40.2
7/25	33.10	7/24	21.98	7/23	22.10	7/29	28.52	7/27	13.63	7/25 31	1.72 7	/24	35.14	7/23	34.7	7/29	23.8	7/28	40.84	7/27 5	8.86	7/26	40.6
8/1	32.38		22.92	7/30	23.13		23.39		14.44		2.70 7		35.10	7/30	33.5	8/5	23.9	8/4	39.84	8/3 5	8.95	8/2	38.7
8/8	31.98	8/7	24.31	8/6	22.73	8/12	18.52	8/9	15.81	8/8 32	2.48 8	n :	33.88	8/6	33.2	8/12	24.0	8/11	38.77	8/10 5	9.02	8/9	32.7
8/15	32.02	8/14	23.81	8/13	20.78	8/19	18.05	8/16	17.01	8/15 33	3.45 8	/14 :	33.50	8/13	32.7	8/19	24.3	8/18	38.03	8/17	57.3	8/16	29.7
8/22	30.97	8/21	22.35	8/20	19.36	8/26	17.93	8/23	16.92	8/22 34	4.58 8	/21 :	34.28	8/20	31.3	8/26	24.6	8/25	37.28	8/24 5	7.45	8/23	29.6
8/29	30.72	8/28	22.85	8/27	18.56	9/2	18.70	8/30	15.83	8/29 33	3.08 8	/28	33.97	8/27	29.7	9/2	24.8	9/1	36.81	8/31 5	8.67	8/30	27.8
9/5	29.32	9/4	21.77	9/3	19.23	9/9	16.70	9/6	16.27	9/5 34	4.83 9	/4 :	35.11	9/3	30.4	9/9	24.9	9/8	35.56	9/7 5	9.20	9/6	28.7
9/12	28.58	9/11	22.94	9/10	20.60	9/16	17.28	9/13	17.77	9/12 35	5.82 9	/11 :	36.34	9/10	31.2	9/16	24.9	9/15	38.10	9/14 6	0.52	9/13	34.3
9/19	27.17	9/18	24.15	9/17	21.24	9/23	15.30	9/20	18.28	9/19 34	4.81 9	/18 :	37.11	9/17	31.6	9/23	25.6	9/22	39.87	9/21 6	2.11	9/20	35.1
9/26	29.10	9/25	23.73	9/24	20.56	9/30	15.82		16.65		3.07 9		35.42		30.3	9/30	24.4	9/29	40.69	9/28 6	2.06	9/27	32.9
10/3	25.79		22.38		20.17		15.15		16.54		3.09 1		33.72		28.0				42.49		2.52		30.3
10/10	21.56		22.64		19.75		18.61				3.24 1		31.59			10/14					0.85	10.4	00.0
10/17	22.91		24.27		20.45		18.60				3.83 1			10/15		10/21					0.21		
10/24	20.13		24.27		20.82		20.29				3.96 1			10/22		10/28					7.18		
10/31	20.80		23.59		22.11		18.31				3.23 1			10/29	30.4				43.23		7.51		
11/7	21.14	11/6	23.74	11/5	22.04	11/11	18.19	11/8	16.52	11/7 34	4.49 1	1/6	33.58	11/5	33.1	11/11	30.4	11/10	42.88	11/9 6	0.65		
11/14	19.27		24.26		22.89		17.67				5.63 1			11/12		11/18					7.69		
11/21	15.48	11/20	23.48	11/19	24.33	11/25	16.06	11/22	16.34	11/21 35	5.62 1	1/20	33.45	11/19	32.4	11/25	38.2	11/24	43.61	11/23 5	5.84		
11/28	15.36	11/27	22.85	11/26	24.32	12/2	17.65	11/29	16.19	11/28 35	5.79 1	1/27	32.65	11/26	32.7	12/2	38.6	12/1	44.46	11/30 5	6.70		
12/5	12.79	12/4	23.21	12/3	25.48	12/9	18.04	12/6	16.20	12/5 36	6.97 1	2/4	32.63	12/3	32.4	12/9	40.2	12/8	44.46	12/7 5	3.07		
	13.56		24.29		28.30		16.55				7.05 1			12/10		12/16					0.87		
	11.71		25.47		30.69		16.95				7.78 1			12/17		12/23					6.71		
			25.47		30.64		17.08				9.88 1			12/17		12/23					4.86		
12/26	11.12																						

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2008		2009		2010		2011	2012		2013		2014		2015		2016		2017		2017		2019	
1/4	25.04	1/2	20.12	1/1	19.04	1/7 25.0	0 1/6	29.0	1/3	31.3	1/2	35.33	1/1	38.45	1/7 3	38.7	1/6 4	42.41	1/5	47.48	1/3	59.5
1/11	25.02	1/9	19.87	1/8	19.14	1/14 25.1	3 1/13	29.0	1/10	31.5	1/9	35.46	1/8	38.48	1/14 3	38.6	1/13 4	42.23	1/12	48.55	1/10	59.1
1/18	24.95	1/16	19.43	1/15	19.23	1/21 25.2	5 1/20	29.1	1/17	31.5	1/16	35.57	1/15	38.44	1/21 38	8.47	1/20 4	42.36	1/19	49.04	1/17	58.7
1/25	25.01	1/23	19.19	1/22	19.38	1/28 25.3	2 1/27	29.2	1/24	31.6	1/23	35.66	1/22	38.26	1/28 38	3.52	1/27	42.45	1/26	49.52	1/24	58.6
2/1	24.81	1/30	18.79	1/29	19.48	2/4 25.4	8 2/3	29.2	1/31	31.5	1/30	35.87	1/29	38.18	2/4 38	8.68	2/3	42.54	2/2	50.24	1/31	58.4
2/8	24.62	2/6	17.87	2/5	19.53	2/11 25.5	7 2/10	29.2	2/7	31.6	2/6	35.82	2/5	37.92	2/11 38	3.61	2/10	43.00	2/9	50.7	2/7	58.0
2/15		2/13	17.40		19.67		8 2/17		2/14	31.6		35.69		37.67				42.97		51.27		57.8
2/22		2/20	17.30		19.69		0 2/24		2/21	31.7		35.67		37.55				42.91		51.64		57.5
2/29		2/27	17.01		19.75		4 3/2		2/28	31.8		35.62		37.41		7.95		42.54		51.94		57.2
3/7		3/6	16.68		19.73		5 3/9	29.2		31.7		35.37		37.17				42.40		52.46		56.9
3/14		3/13	16.51		19.73		5 3/16		3/14	31.7		35.37		36.98				42.40			3/14	56.5
3/21		3/20	16.46		19.66		9 3/23		3/21	31.7		35.41		37.09				42.62		54.17		56.3
3/28	24.57	3/27	16.39		19.79		3 3/30		3/28	31.7		35.61		37.13				42.75		54.25		56.4
4/4		4/3	16.28		19.83		5 4/6	29.5		31.8		35.84		37.15		3.08		42.67		54.47		56.7
4/11	24.86	4/10	16.16	4/9	20.42	4/15 26.1	6 4/13	29.6	4/11	31.9	4/10	36.00	4/9	37.17	4/15 38	8.15	4/14 4	42.81	4/13	54.59	4/11	56.7
4/18	24.86	4/17	16.07	4/16	20.52	4/22 26	2 4/20	29.7	4/18	31.9	4/17	36.12	4/16	37.28	4/22 38	3.32	4/21 4	42.96	4/20	54.63	4/18	57.1
4/25	24.81	4/24	16.04	4/23	20.92	4/29 26	5 4/27	29.8	4/25	31.8	4/24	36.17	4/23	37.09	4/29 38	8.46	4/28	43.31	4/27	55.04	4/25	57.2
5/2	24.49	5/1	15.73	4/30	21.13	5/6 26	7 5/4	29.9	5/2	31.8	5/1	36.24	4/30	37.06	5/6 39	9.03	5/5	43.6	5/4	55.55	5/2	57.3
5/9	24.41	5/8	15.57	5/7	21.33	5/13 26	9 5/11	30.0	5/9	32.0	5/8	36.22	5/7	37.10	5/13 39	9.00	5/12 4	43.28	5/11	56.18	5/9	57.6
5/16	24.41	5/15	15.59	5/14	21.54	5/20 27	1 5/18	29.9	5/16	32.21	5/15	36.12	5/14	37.17	5/20 39	9.14	5/19	43.45	5/18	56.56	5/16	57.4
5/23	24.40	5/22	15.52	5/21	21.6	5/27 27	1 5/25	29.8	5/23	32.28	5/22	36.21	5/21	37.26	5/27 39	9.16	5/26	43.56	5/25	56.22	5/23	57.3
5/30	24.59	5/29	15.66	5/28	21.8	6/3 27	2 6/1	29.9	5/30	32.40		36.31		37.35	6/3 39	9.33	6/2	43.71		56.36		57.4
6/6		6/5	15.78		21.97		4 6/8	29.9		32.60		36.52		37.43		9.42		43.80		57.41		57.
6/13		6/12	15.85		21.99		5 6/15			32.75		36.68		37.53				44.26		57.63		57.
6/20		6/19	15.72		21.93		6 6/22			32.77		36.78		37.88				44.35		58.69		57.
6/27		6/26	16.00											37.74								58.0
					22.04		7 6/29			32.88		36.90						44.67		58.98		
7/4		7/3	16.06		22.16		7 7/6	30.2		33.03		36.92		37.93		9.79		44.95		59.10		57.9
7/11		7/10	16.12		22.25		8 7/13			33.17		37.06		38.58				45.02		59.25		57.9
7/18		7/17	16.21		22.33		9 7/20			33.28		37.29		38.77				45.11		59.32		57.9
7/25	25.73	7/24	16.32	7/23	22.44	7/29 28	0 7/27	30.3	7/25	33.40	7/24	37.57	7/23	38.85	7/29 40	0.04	7/28	45.08	7/27	59.60	7/25	57.0
8/1	25.61	7/31	16.44	7/30	22.57	8/5 28	0 8/3	30.1	8/1	33.52	7/31	37.80	7/30	38.81	8/5 40	0.28	8/4 4	45.11	8/3	60.10	8/1	57.
8/8	25.31	8/7	16.45	8/6	22.73	8/12 27	8 8/10	30.1	8/8	33.77	8/7	37.72	8/6	39.03	8/12 40	0.29	8/11 4	44.68	8/10	60.08	8/8	57.
8/15	25.13	8/14	16.54	8/13	22.91	8/19 27	8 8/16	30.1	8/15	33.80	8/14	37.86	8/13	38.91	8/19 40	0.53	8/18	44.56	8/17	60.05	8/15	57,
8/22	25.21	8/21	16.67	8/20	23.01	8/26 28	0 8/23	30.2	8/22	33.90	8/21	37.88	8/20	38.88	8/26 40	0.45	8/25	44.57	8/24	59.80	8/22	57.7
8/29	25.28	8/28	16.92	8/27	23.09	9/ 2 27	9 8/30	30.3	8/29	33.94	8/28	38.0	8/27	38.94	9/2 40	0.51	9/1 4	44.71	8/31	59.91	8/29	57.3
9/5	25.34	9/4	16.92	9/3	22.95	9/9 27	9 9/6	30.4	9/5	34.09	9/4	38.16	9/3	39.01	9/9 40	0.95	9/8	44.83	9/7	60.11	9/5	55.0
9/12	25.36	9/11	17.09	9/10	23.04	9/16 28	0 9/13	30.5	9/12	34.25	9/11	38.13	9/10	39.03	9/16 41	1.09	9/15	44.94	9/14	60.19	9/12	54.4
9/19	25.44	9/18	17.13		23.09	9/23 28	1 9/20	30.6	9/19	34.35		38.21		39.02				45.08		60.70		54
9/26		9/25	17.27		23.18		1 9/27			34.46		38.36		39.05				45.28		60.76		55.0
10/3	25.35	10/2	17.41		23.2		0 10/4			34.57		38.34		39.34				45.30			10/3	56.
																					10/5	50.
10/10	25.23	10/9	17.65				9 10/11			34.65		38.45		39.49						61.42		
10/17	24.81	10/16		10/15	23.49		0 10/18			34.78		38.51		39.04						61.35		
10/24	24.47	10/23		10/22			9 10/25			35.04		38.54		39.09						61.41		
10/31	23.41	10/30	18.04		23.78		9 11/1			35.05		38.52		38.97				46.12		61.02		
11/7	22.66	11/6	18.13	11/5	23.84	11/11 27	8 11/8	30.9	11/7	35.06	11/6	38.55	11/5	38.97	11/11 41	1.50	11/10 4	46.18	11/9	60.58		
11/14	22.01	11/13	18.22	11/12	23.9	11/18 27	9 11/15	30.7	11/14	34.93	11/13	38.43	11/12	38.65	11/18 41	1.52	11/17 4	46.06	11/16	60.21		
11/21	21.49	11/20	18.55	11/19	23.96	11/25 28	0 11/22	30.7	11/21	35.02	11/20	38.43	11/19	38.86	11/25 41	1.55	11/24	46.28	11/23	60.01		
11/28	21.2	11/27	18.70	11/26	24.07	12/2 28	1 11/29	30.9	11/28	35.15	11/27	38.42	11/26	38.9	12/2 4	1.74	12/1	46.36	11/30	60.02		
12/5	21.10	12/4	18.80		24.13		2 12/6			35.12		38.52		38.88				46.31		60.07		
12/12	20.83	12/11	18.91	12/10			2 12/13			35.26		38.74		38.86						59.62		
12/19	20.28	12/18	19.09				9 12/20			35.37		38.52		38.77						59.44		
	20.20						0 12/27													59.44 59.37		
12/26	20.05	12/25	19.06		24.73					35.24		38.33		38.68			12/29 4					

Tubi	<u> </u>	. σ αι	- 00	u For	war	d Earnii	ng	s (week	ly as c	ot F	riday,	a	ollars	per	snare	e)	warke	τs	Estima	aτe		
2008		2009		2010		2011	2	2012	2013		2014		2015		2016		2017		2018		2019	
1/4	15.22	1/2	5.90	1/1	12.87	1/7 14.2	24 1/	/6 8.37	1/3	9.11	1/2	19.92	1/1	15.19	1/7	14.11	1/6	20.56	1/5 2	23.25	1/4	22.4
1/11	14.21	1/9	6.61	1/8	13.00	1/14 14.1	14 1/	/13 8.33	1/10	9.33	1/9	19.48	1/8	13.56	1/14	12.94	1/13	19.93	1/12 2	24.29	1/11	24.2
1/18	13.37	1/16	5.68	1/15	12.82	1/21 14.2	24 1/	/20 8.53	1/17	9.26	1/16	18.85	1/15	12.58	1/21	12.35	1/20	20.12	1/19 2	25.04	1/18	24.8
1/25	12.84	1/23	6.03	1/22	12.32	1/28 14.2	20 1/	/27 8.88	1/24	9.60	1/23	18.62	1/22	12.56	1/28	12.28	1/27	20.78	1/26 2	25.89	1/25	25.1
2/1	13.67	1/30	6.62	1/29	11.94	2/4 14.9	95 2/	/3 8.47	1/31 1	0.23	1/30	17.49	1/29	12.06	2/4	11.66	2/3	20.65	2/2 2	26.43	2/1	24.9
2/8	13.57	2/6	6.99	2/5	11.75	2/11 15.8	36 2/	/10 9.14	2/7 1	0.17	2/6	16.74	2/5	12.50	2/11	10.19	2/10	20.01	2/9 2	25.61	2/8	25.2
2/15	13.87	2/13	6.84	2/12	11.74	2/18 15.7	6 2/	/17 9.03	2/14 1	0.35	2/13	17.62	2/12	13.94	2/18	10.99	2/17	21.03	2/16 2	26.59	2/15	25.6
2/22	14.27	2/20	6.08	2/19	12.43	2/25 14.7	'9 2 1	/24 9.23	2/21 1	0.27	2/20	17.83	2/19	14.93	2/25	11.03	2/24	20.48	2/23 2	27.27	2/22	26.19
2/29	14.17	2/27	6.12	2/26	12.36	3/4 15.0	00 3/	/2 8.94	2/28	9.54	2/27	17.86	2/26	14.29	3/4	11.87	3/3	20.75	3/2 2	26.66	3/1	26.4
3/7	12.96	3/6	5.54	3/5	12.56	3/11 14.9	91 3/	/9 8.92	3/7 1	0.17	3/6	18.35	3/5	15.07	3/11	12.66	3/10	21.27	3/9 2	27.48	3/8	25.4
3/14	12.44	3/13	5.74	3/12	13.28	3/18 13.8	31 3/	/16 10.17	3/14 1	0.76	3/13	18.31	3/12	15.02	3/18	12.87	3/17	21.41	3/16 2	27.49	3/15	24.8
3/21	12.09	3/20	5.85	3/19	13.28	3/25 14.5	59 3 /	/23 10.71	3/21 1	0.26	3/20	18.59	3/19	14.34	3/25	12.81	3/24	20.03	3/23 2	27.17	3/22	24.03
3/28	13.00	3/27	6.19	3/26	13.79	4/1 15.3	35 3/	/30 10.36	3/28 1	0.08	3/27	18.06	3/26	13.94	4/1	12.42	3/31	20.07	3/30 2	26.08	3/29	22.4
4/4	13.32	4/3	6.32	4/2	14.1	4/8 15.9	2 4/	/6 10.23	4/4	9.40	4/3	18.69	4/2	13.77	4/8	11.74	4/7	19.42	4/6 2	25.99	4/5	23.8
4/11	13.18	4/10	6.93	4/9	14.63	4/15 15.4	10 4/	/13 9.11	4/11	9.40	4/10	17.56	4/9	13.92	4/15	12.13	4/14	19.02	4/13 2	26.56	4/12	24.2
4/18	13.64	4/17	7.11	4/16	14.57	4/22 15.0	3 4/	/ 20 9.00	4/18	8.82	4/17	17.39	4/16	13.74	4/22	12.86	4/21	18.57	4/20 2	27.87	4/19	24.9
4/25	14.33	4/24	7.38	4/23	14.73	4/29 15.2	25 4/	27 8.96	4/25	9.01	4/24	17.87	4/23	14.03	4/29	13.17	4/28	19.79	4/27 2	28.63	4/26	24.6
5/2	14.64	5/1	7.98	4/30	14.56	5/6 14.4	17 5/	4 8.87	5/2	8.96	5/1	17.29	4/30	14.50	5/6	12.48	5/5	19.79	5/4 2	28.17	5/3	24.6
5/9	14.66	5/8	8.71	5/7	13.19	5/13 14.4	12 5/	/11 8.37	5/9	9.95	5/8	16.84	5/7	15.46	5/13	11.98	5/12	20.21	5/11 2	29.07	5/10	23.9
5/16	15.03	5/15	8.10	5/14	13.27	5/20 13.9	96 5/	/18 7.53	5/16 1	0.70	5/15	16.53	5/14	15.95	5/20	12.32	5/19	18.90	5/18 3	30.46	5/17	22.6
5/23	14.86	5/22	8.51	5/21	11.98	5/27 13.6	33 5 /	1 25 7.57	5/23 1	1.08	5/22	16.31	5/21	16.08	5/27	12.84	5/26	18.91	5/25 3	30.27	5/24	21.9
5/30	15.78	5/29	9.43	5/28	11.34	6/3 13.2	28 6/	/1 6.88	5/30	11.9	5/29	16.18	5/28	15.22	6/3	12.77	6/2	18.49	6/1 2	28.62	5/31	20.0
6/6	15.66	6/5	10.30	6/4	11.52	6/10 12.7	2 6/	/8 6.83	6/6 1	1.69	6/5	17.04	6/4	16.62	6/10	12.24	6/9	18.56	6/8 3	30.40	6/7	19.10
6/13	15.95	6/12	10.79	6/11	10.84	6/17 12.5	59 <mark>6</mark> /	/15 6.87	6/13 1	2.15	6/12	17.57	6/11	17.50	6/17	11.32	6/16	18.74	6/15 3	30.66	6/14	19.63
6/20	16.31	6/19	10.03	6/18	11.54	6/24 12.7	1 6/	/22 7.10	6/20 1	2.84	6/19	17.75	6/18	16.95	6/24	11.87	6/23	18.34	6/22 3	30.43	6/21	19.1
6/27	15.32	6/26	9.52	6/25	10.92	7/1 13.7	2 6/	/29 7.09	6/27 1	3.89	6/26	17.39	6/25	17.78	7/1	10.18	6/30	19.06	6/29 2	29.15	6/28	18.8
7/4	14.38	7/3	9.49	7/2	9.87	7/8 14.2	25 7/	/6 7.27	7/4 1	4.37	7/3	17.90	7/2	17.11	7/8	9.77	7/7	20.18	7/6 2	9.44	7/5	19.00
7/11	13.76	7/10	8.80	7/9	9.97	7/15 13.1	15 7/	/13 6.75	7/11 1	5.26	7/10	17.32	7/9	16.49	7/15	11.14	7/14	20.12	7/13 2	29.90	7/12	19.8
7/18	14.20	7/17	9.64	7/16	10.34	7/22 13.3	33 71	/20 6.79	7/18 1	4.92	7/17	16.78	7/16	17.26	7/22	11.68	7/21	19.70	7/20 3	30.06	7/19	19.5
7/25	15.23	7/24	10.29	7/23	10.03	7/29 12.9	71	1 27 6.42	7/25 1	5.17	7/24	16.53	7/23	16.56	7/29	11.37	7/28	19.99	7/27 3	31.08	7/26	19.73
8/1	15.00	7/31	10.76	7/30	10.62	8/5 10.7	2 8/	/3 6.76	8/1 1	5.57	7/31	16.51	7/30	15.87	8/5	11.38	8/4	19.48	8/3 3	31.16	8/2	18.9
8/8	15.06	8/7	11.34	8/6	10.33	8/12 8.4	13 8/	/10 7.44	8/8 1	5,53	8/7	16.03	8/6	16.69	8/12	11.47	8/11	18.87	8/10 3	31.23	8/9	16.0 ⁻
8/15	15.40	8/14	11.09	8/13	9.31	8/19 8.1	15 8/	/17 7.99	8/15 1	6.08	8/14	15.83	8/13	15.36	8/19	11.66	8/18	18.43	8/17 3	30.54	8/16	14.63
8/22	14.75	8/21	10.38	8/20	8.63	8/26 8.1	13 8/	/23 7.96	8/22 1	6.67	8/21	16.09	8/20	14.78	8/26	11.82	8/25	18.03	8/24 3	30.76	8/23	14.53
8/29	14.58	8/28	10.65	8/27	8.29	9/2 8.4	17 8/	/30 7.47	8/29 1	5.97	8/28	15.89	8/27	14.12	9/2	11.95	9/1	17.87	8/31 3	31.39	8/30	13.63
9/5	14.11	9/4	10.04	9/3	8.60	9/9 7.5	52 9/	/ 6 7.67	9/5 1	6.92	9/4	16.41	9/3	14.49	9/9	12.04	9/8	17.36	9/7 3	31.65	9/6	13.9
9/12	13.90	9/11	10.54	9/10	9.17	9/16 7.7	7 91	/13 8.41	9/12 1	7.34	9/11	16.97	9/10	14.81	9/16	12.57	9/15	18.64	9/14 3	32.13	9/13	16.9
9/19	13.37	9/18	11.08	9/17	9.50	9/23 6.8	36 9 /	20 8.68	9/19 1	6.83	9/18	17.25	9/17	15.01	9/23	12.49	9/22	19.64	9/21 3	32.80	9/20	17.4
9/26	14.38	9/25	10.96	9/24	9.20	9/30 7.1	17 9/	/ 27 7.90	9/26 1	6.14	9/25	16.45	9/24	14.38	9/30	11.89	9/29	20.36	9/28 3	32.62	9/27	16.23
10/3	12.90	10/2	10.32	10/1	9.04	10/7 6.9	10	0/4 7.85	10/3 1	6.09	10/2	15.68	10/1	13.28	10/7	12.79	10/6	21.45	10/5 3	32.53	10/4	14.8
10/10	10.86	10/9	10.40	10/8	8.89	10/14 8.5	55 10	0/11 7.91	10/10 1	6.13	10/9	14.69	10/8	14.20	10/14	13.24	10/13	21.21	10/12 3	31.52		
10/17	11.62	10/16	11.18	10/15	9.30	10/21 8.4	19 10	0/18 8.31	10/17 1	6.54	10/16	13.57	10/15	13.86	10/21	12.96	10/20	21.19	10/19 3	31.11		
10/24	10.17	10/23	11.08				30 10										10/27			29.58		
10/31	10.40	10/30		10/29			11 11							14.55		12.92		21.38		29.98		
11/7	10.62	11/6	10.70				35 11			6.91				15.93				20.96		31.52		
11/14	9.62	11/13	10.84				16 11							16.00			11/17			29.70		
11/21	7.66	11/20		11/19			10 11							15.57						8.68		
11/28	7.59	11/27		11/26	11.01		17 11							15.78		19.24				29.07		
12/5	6.35	12/4	10.42		11.55		10 12			8.35				15.68		20.21		21.93		26.99		
12/12	6.70	12/11		12/10			9 12							15.02						25.86		
12/12	5.78	12/18	11.49				05 12							15.02			12/22			23.57		
12/19	5.54	12/10		12/17			10 12							15.08			12/22			22.78		
.2.20	5.54	12/25	12.54	12/24	14.12			a.21 0.28	12120	3.00	LILS	10.00		15.10	12/30	21.13	1212.5	22.03	.2.20 2	2.10		

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104076	1992	1993	1994	1995
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| Jan | 27.12 | 29.03 | 31.64 | 37.67 | 42.52
 | 46.38 | 50.98 | 51.37 | 58.09 | 59.51
59.12
 | 52.27 | 54.84 | 61.98 | 73.60 | 85.9 | 94.74
 | 101.23 | 73.45 | 77.7
 | 97.18 | 106.51 | 113.0
 | 120.62 | 124.65 | 125.57 | 132.73 | 151.76 | 171.3
 |
| Feb
Mar | 27.00 | 29.01 | 32.05 | 38.14 | 42.66
 | 46.80 | 50.78 | 51.85 | 59.43 | 59.12
 | 54.05 | 54.48 | 63.22 | 74.50 | 86.5 | 94.86
 | 100.16 | 64.97 | 80.3
 | | 106.72 |
 | | 121.68 | 123.27 | | 158.79
160.80 | 170.5
 |
| Apr | 27.50 | 29.30 | 32.72 | 38.92 | 42.83
 | 47.57 | 50.76 | 53.01 | 60.45 | 56.53
 | 55.17 | 55.41 | 65.46 | 76.17 | 88.13 | 96.48
 | 98.64 | | 82.93
 | | 109.58 |
 | | 124.21 | | | | 171.8
 |
| May | 27.91 | 29.66 | 33.32 | 39.81 | 43.34
 | 48.09 | 51.25 | 54.06 | 61.24 | 56.56
 | 55.51 | 56.03 | 67.62 | 77.19 | 89.22 | 98.00
 | 98.58 | | 87.02
 | | 110.35 |
 | | 124.14 | | | | 173.7
 |
| Jun | 28.25 | 30.05 | 33.62 | 40.14 | 43.67
 | 48.40 | 51.41 | 54.75 | 61.83 | 56.60
 | 56.08 | 56.61 | 68.67 | 77.83 | 90.33 | 99.4
 | 99.31 | 64.97 | 88.06
 | 105.48 | 110.67 | 116.28
 | 125.33 | 125.18 | 125.71 | 138.15 | 167.69 | 174.5
 |
| Jul | 28.58 | 30.30 | 34.00 | 40.56 | 43.90
 | 48.86 | 51.68 | 55.28 | 62.32 | 55.62
 | 55.28 | 57.27 | 69.44 | 79.18 | 91.24 | 100.8
 | 99.16 | 66.70 | 89.19
 | 105.53 | 110.26 | 117.32
 | 126.4 | 126.09 | 126.40 | 138.77 | 169.29 | 175.1
 |
| Aug | 28.62 | 30.45 | 34.75 | 41.14 | 44.19
 | 49.45 | 51.83 | 56.19 | 62.52 | 55.38
 | 55.59 | 58.15 | 70.26 | 80.93 | 92.39 | 102.16
 | 97.60 | |
 | | |
 | | 126.77 | | | | 175.7
 |
| Sep | 28.82 | 30.74 | 35.26 | 41.58 | 44.49
 | 49.74 | 52.18 | 56.54 | 62.69 | 55.12
 | 55.52 | 59.00 | 70.77 | 82.37 | 92.90 | 102.62
 | 97.91 | |
 | | |
 | | 127.07 | | | | 176.6
 |
| Oct | 28.87 | 30.99 | 35.94 | 41.97 | 44.91
 | 50.15 | 51.78 | 57.18 | 62.55 | 52.77
 | 54.64 | 59.67 | 71.53 | 84.19 | 93.17 | 103.1
 | 93.23 | | | | |
 | | |
 | | 126.43 | | | |
 |
| Nov | 28.70 | 31.29
31.46 | 36.60 | 42.35 | 45.33
 | 50.41 | 51.64 | 57.38
57.46 | 61.98 | 52.06
52.26
 | 54.57
54.56 | 60.45
60.94 | 72.71 | 84.56
85.23 | | 102.72
 | 84.27
77.87 | | 93.74
 | | |
 | | 126.57 | | | 174.52 |
 |
| Dec | 26.11 | 31,40 | 37.00 | 42.08 | 40.07
 | 50.65 | 51.20 | 07.40 | 00.81 | 02.20
 | 04.00 | 00.94 | 13.32 | 85.23 | 94.08 | 101.80
 | 11.67 | 70.35 | 95.06
 | 100.00 | 112.12 | 120.71
 | 120.24 | 120.09 | 131.00 | 145.03 | 173.00 |
 |
| Table | 13: 10 | -Year | Treas | | lote Y
 | ield | | | | |
 | | | | | |
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 | | | | | |
 |
| | 1992
7.03 | 1993
6.60 | 1994
5.75 | 1995
7.78 | 1996
5.65
 | 1997
6.58 | 1998
5.54 | 1999
4.72 | 2000 | 2001
5.16
 | 2002 | 2003 | 4.15 | 2005 | 2006 | 2007
 | 2008 | 2009 | 2010
 | 2011
3.39 | 2012 | 2013
 | 2014 | 2015 | 2016 | 2017 | 2018 | 201
 |
| Jan
Feb | 7.03 | 6.26 | 5.97 | 7.47 | 5.81
 | 6.42 | 5.57 | 5.00 | 6.52 | 5.10
 | 4.91 | 3.90 | 4.15 | 4.22 | 4.42 | 4.76
 | 3.74 | 2.52 | 3.69
 | 3.58 | 1.97 | 1.91
 | 2.85 | 1.88 | 1.78 | 2.43 | 2.58 | 2.6
 |
| Mar | 7.54 | 5.98 | 6.48 | 7.20 | 6.27
 | 6.69 | 5.65 | 5.23 | 6.26 | 4.89
 | 5.28 | 3.81 | 3.83 | 4.50 | 4.72 | 4.56
 | 3.51 | 2.82 | 3.73
 | 3.41 | 2.17 | 1.96
 | 2.72 | 2.04 | 1.89 | 2.48 | 2.84 | 2.5
 |
| Apr | 7.48 | 5.97 | 6.97 | 7.06 | 6.51
 | 6.89 | 5.64 | 5.18 | 5.99 | 5.14
 | 5.21 | 3.96 | 4.35 | 4.34 | 4.99 | 4.69
 | 3.68 | 2.93 | 3.85
 | 3.46 | 2.05 | 1.76
 | 2.71 | 1.94 | 1.81 | 2.30 | 2.87 | 21
 |
| May | 7.39 | 6.04 | 7.18 | 6.63 | 6.74
 | 6.71 | 5.65 | 5.54 | 6.44 | 5.39
 | 5.16 | 3.57 | 4.72 | 4.14 | 5.11 | 4.75
 | 3.88 | 3.29 | 3.42
 | 3.17 | 1.8 | 1.93
 | 2.56 | 2.2 | 1.81 | 2.30 | 2.98 | 2.4
 |
| Jun | 7.26 | 5.96 | 7.10 | 6.17 | 6.91
 | 6.49 | 5.50 | 5.90 | 6.10 | 5.28
 | 4.93 | 3.33 | 4.73 | 4.00 | 5.11 | 5.10
 | 4.10 | 3.72 | 3.20
 | 3.00 | 1.62 | 2.30
 | 2.60 | 2.36 | 1.64 | 2.19 | 2.91 | 2.0
 |
| Jul | 6.84 | 5.81 | 7.30 | 6.28 | 6.87
 | 6.22 | 5.46 | 5.79 | 6.05 | 5.24
 | 4.65 | 3.98 | 4.50 | 4.18 | 5.09 | 5.00
 | 4.01 | 3.56 | 3.01
 | 3.00 | 1.53 | 2.58
 | 2.54 | 2.32 | 1.50 | 2.32 | 2.89 | 2.0
 |
| Aug | 6.59 | 5.68 | 7.24 | 6.49 | 6.64
 | 6.30 | 5.34 | 5.94 | 5.83 | 4.97
 | 4.26 | 4.45 | 4.28 | 4.26 | 4.88 | 4.67
 | 3.89 | 3.59 | 2.71
 | 2.30 | 1.68 | 2.74
 | 2.42 | 2.32 | 1.56 | 2.21 | 2.89 | 1.0
 |
| Sep | 6.42 | 5.36 | 7.46 | 6.20 | 6.83
 | 6.21 | 4.81 | 5.92 | 5.80 | 4.73
 | 3.87 | 4.27 | 4.13 | 4.20 | 4.72 | 4.52
 | 3.69 | 3.40 | 2.65
 | 1.98 | 1.72 | 2.81
 | 2.53 | 2.17 | 1.63 | 2.20 | 3.00 | 1.
 |
| Oct | 6.59 | 5.33 | 7.74 | 6.04 | 6.53
 | 6.03 | 4.53 | 6.11 | 5.74 | 4.57
 | 3.94 | 4.29 | 4.10 | 4.46 | 4.73 | 4.53
 | 3.81 | 3.39 | 2.54
 | 2.15 | 1.75 | 2.62
 | 2.30 | 2.07 | 1.76 | 2.36 | 3.15 |
 |
| Nov | 6.87
6.77 | 5.72
5.77 | 7.96 | 5.93
5.71 | 6.20
6.30
 | 5.88
5.81 | 4.83 | 6.03
6.28 | 5.72
5.24 | 4.65
5.09
 | 4.05 | 4.30
4.27 | 4.19
4.23 | 4.54
4.47 | 4.60
4.56 | 4.15
4.10
 | 3.51
2.42 | 3.40
3.59 | 2.74
 | 2.01 | 1.65 | 2.72
 | 2.33
2.21 | 2.26 | 2.14 | 2.35 | 3.12
2.83 |
 |
| vec | 0.77 | 5.77 | 7.01 | 5.71 | 0.30
 | 0.01 | 4.00 | 0.20 | 0.24 | 5.02
 | 4.03 | 4.27 | 4.23 | 4.47 | 4.00 | 4.10
 | 2.42 | 3.55 | 5.29
 | 1.90 | 1.12 | 2.90
 | 221 | 2.24 | 2.45 | 2.40 | 2.03 |
 |
| Table | 14: "F | air Va | lue" S | 5&P 5 | 00 Pri
 | се | | | | |
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 |
| | 1992 | 1993 | 1994 | 1995 | 1996
 | 1997 | 1998 | 1999 | 2000 | 2001
 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007
 | 2008 | 2009 | 2010
 | 2011 | 2012 | 2013
 | 2014 | 2015 | 2016 | 2017 | 2018 | 201
 |
| Jan | 385.8 | 439.8 | 550.3 | 484.2 | 752.6
 | 704.9 | 920.2 | 1088.3 | | |
 | 1037.1 | | | 1744.1 | |
 | | |
 | | |
 | | | 6008.1 | | 5882.2 | 6322
 |
| Feb
Mar | 367.8 | 463.4 | 536.9 | 510.6 | 734.3
 | 729.0 | 911.7 | 1037.0 | | |
 | 1100.8 | 1396.9 | | | 1893.4
1848.5 |
 | | |
 | | |
 | 4439.5
4464.0 | 6145.5 | | | 5552.1 | 6361.
6664
 |
| Mar
Apr | 361.7
367.6 | 490.0
490.8 | 499.1
469.4 | 534.7
551.3 | 681.2
657.9
 | 703.0
690.4 | 895.8
900.0 | 997.3
1023.4 | 947.3 | 1189.0
1099.8
 | 1036.9 | 1447.0 | | | 1848.5 |
 | | |
 | | 4982.9
5345.4 |
 | 4464.0 | | | 5386.7
5869.1 | 5662.0
5651.6 | 6791
 |
| May | 377.7 | 491.1 | 464.1 | 600.5 | 643.0
 | 716.7 | 907.1 | 975.8 | 950.9 | 1049.4
 | 1075.8 | 1569.5 | 1432.6 | 1864.5 | | 2057.1
 | | |
 | 3293.4 | | 5965.3
 | 4847.7 | 5642.7 | 6868.5 | 5940.4 | 5584.6 | 7241
 |
| Jun | 389.1 | 504.2 | 473.5 | 650.6 | 632.0
 | 745.B | 934.7 | 928.0 | 1013.6 | |
 | 1137.5 | | 1451.8 | | |
 | | |
 | | 6831.5 |
 | | | 7665.2 | | 5762.5 | 8433
 |
| Jul | 417.8 | 521.5 | 465.8 | 645.9 | 639.0
 | 785.5 | 946.5 | 954.7 | | |
 | | | | | |
 | | |
 | | |
 | | 5434.9 | 8426.7 | 5981.5 | 5857.8 | 8503
 |
| Aug | 434.3 | 536.1 | 480.0 | 633.9 | 665.5
 | 784.9 | 970.6 | 945.9 | 1072.4 | 1114.3
 | 1304.9 | 1306.7 | 1641.6 | 1899.8 | 1893.2 | 2187.6
 | 2509.0 | 1913.9 | 3357.9
 | 4667.0 | 6573.2 | 4300.4
 | 5279.8 | 5841.9 | 8170.5 | 6337.6 | 5945.0 | 10779
 |
| Sep | 448.9 | 573.5 | 472.7 | 670.6 | 651.4
 | | 1084.8 | | | |
 | | | | | |
 | | |
 | | |
 | | 5855.8 | | | | 10384
 |
| Oct | 438.1 | 581.4 | 464.3 | 694.9 | 687.7
 | | | | | |
 | | | | | |
 | | |
 | | |
 | | 6107.7 | | | |
 |
Nov	417.8 425.0	547.0 545.2	459.8 474.5	
 | | | | |
 | | | | | |
 | | |
 | | |
 | | 5600.4 | | | |
 |
| Dec
* Fair Va | 425.0 | 545.2 | | |
 | | | | |
 | | | | 1906.7 | 2076.3 | 2484.4
 | 3217.8 | 2126.7 | 2890.0
 | 5398.0 | 6518.6 | 4162.4
 | 5/12.2 | 5651.3 | 5283.1 | 6042.9 | 6134.3 |
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| | alue Pric | e = For | ward ea | amings (| divided I
 | by the 1 | | | | |
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| | 15: S& | SP 500 |) Inde | X
1995 | 1996
 | 1997 | 1998 | 1999 | 2000 | 2001
 | 2002 | | 2004 | 2005 | |
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 | | 2012 |
 | | | | 2017 | 2018 |
 |
| Table | 15: S&
1992
416.1 | SP 50
1993
435.2 | 0 Inde
1994
473.0 | X
1995
465.3 | 1996
614.4
 | 1997
765.2 | 1998
963.4 | 1999
1248.8 | 2000
1425.6 | 2001
1335.6
 | 2002
1140.2 | 895.8 | 2004
1132.5 | 1181.4 | 1278.7 | 1424.2
 | 1378.8 | 865.58 | 1123.6
 | 1282.6 | 1300.6 | 1480.4
 | 1822.4 | 2028.2 | 1918.6 | 2275.1 | 2789.8 | 2607
 |
| Table
Jan
Feb | 15: S& | SP 500 |) Inde | X
1995 | 1996
 | 1997
766.2
798.4 | 1998
963.4
1023.7 | 1999
1248.8
1246.6 | 2000
1425.6
1388.9 | 2001
1335.6
1305.8
 | 2002
1140.2 | 895.8
837.6 | 2004
1132.5
1143.4 | 1181.4
1199.6 | 1278.7
1276.7 | 1424.2
1444.8
 | 1378.8
1354.9 | 865.58
805.23 | 1123.6
1089.2
 | 1282.6
1321.1 | 1300.6
1352.5 | 1480.4
1512.3
 | 1822.4
1817.0 | | 1918.6
1904.4 | 2275.1
2329.9 | 2789.8
2705.2 | 2607
2754
 |
| Table
Jan
Feb
Mar | 15: S&
1992
416.1
412.6 | 1993
435.2
441.7 | 0 Inde
1994
473.0
471.6 | 1995
465.3
481.9 | 1996
614.4
649.5
 | 1997
766.2
798.4
792.2 | 1998
963.4
1023.7
1076.8 | 1999
1248.8
1246.6
1281.7 | 2000
1425.6
1388.9
1442.2 | 2001
1335.6
1305.8
 | 2002
1140.2
1100.7
1153.8 | 895.8
837.6
846.6 | 2004
1132.5
1143.4
1124.0 | 1181.4
1199.6 | 1278.7
1276.7
1293.7 | 1424.2
1444.8
1407.0
 | 1378.8
1354.9
1316.9 | 865.58
805.23
757.13 | 1123.6
1089.2
1152.1
 | 1282.6
1321.1
1304.5 | 1300.6
1352.5
1389.2 | 1480.4
1512.3
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 | 1822.4
1817.0
1863.5 | 2028.2
2082.2 | 1918.6
1904.4
2022.0 | 2275.1
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2366.8 | 2789.8
2705.2
2702.8 | 2607
2754
2804
 |
| Table
Jan
Feb
Mar | 15: S&
1992
416.1
412.6
407.4 | 1993
435.2
441.7
450.2 | 0 Inde
1994
473.0
471.6
463.8 | 1995
465.3
481.9
493.2 | 1996
614.4
649.5
647.1
 | 1997
766.2
798.4
792.2
763.9 | 1998
963.4
1023.7
1076.8
1112.2 | 1999
1248.8
1246.6
1281.7
1334.8 | 2000
1425.6
1388.9
1442.2
1461.4 | 2001
1335.6
1305.8
1185.9
 | 2002
1140.2
1100.7
1153.8
1112.0 | 895.8
837.6
846.6
890.0 | 2004
1132.5
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1194.9 | 1278.7
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1302.2 | 1424.2
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1370.5 | 865.58
805.23
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848.2 | 1123.6
1089.2
1152.1
1197.3
 | 1282.6
1321.1
1304.5
1331.5 | 1300.6
1352.5
1389.2 | 1480.4
1512.3
1550.8
1570.7
 | 1822.4
1817.0
1863.5
1864.3 | 2028.2
2082.2
2080.0 | 1918.6
1904.4
2022.0
2075.5 | 2275.1
2329.9
2366.8
2359.3 | 2789.8
2705.2
2702.8
2653.6 | 2607
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| Table
Jan
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Apr | 15: S&
1992
416.1
412.6
407.4
407.4 | SP 500
1993
435.2
441.7
450.2
443.1 | 0 Inde
1994
473.0
471.6
463.8
447.2 | 1995
465.3
481.9
493.2
507.9 | 1996
614.4
649.5
647.1
647.2
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765.2
798.4
792.2
763.9
833.1 | 1998
963.4
1023.7
1076.8
1112.2 | 1999
1248.8
1246.6
1281.7
1334.8
1332.1 | 2000
1425.6
1388.9
1442.2
1461.4
1418.5 | 2001
1335.6
1305.8
1185.9
1189.8
 | 2002
1140.2
1100.7
1153.8
1112.0 | 895.8
837.6
846.6
890.0
936.0 | 2004
1132.5
1143.4
1124.0
1133.1 | 1181.4
1199.6
1194.9
1164.4
1178.3 | 1278.7
1276.7
1293.7
1302.2
1290.0 | 1424.2
1444.8
1407.0
1463.7
 | 1378.8
1354.9
1316.9
1370.5
1403.2 | 865.58
805.23
757.13
848.2
902.4 | 1123.6
1089.2
1152.1
1197.3
1125.1
 | 1282.6
1321.1
1304.5
1331.5
1338.3 | 1300.6
1352.5
1389.2
1386.4 | 1480.4
1512.3
1550.8
1570.7
1639.8
 | 1822.4
1817.0
1863.5
1864.3
1889.8 | 2028.2
2082.2
2080.0
2094.9 | 1918.6
1904.4
2022.0
2075.5
2065.6 | 2275.1
2329.9
2366.8
2359.3
2395.4 | 2789.8
2705.2
2702.8
2653.6
2701.5 | 2607
2754
2804
2903
2854
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| Table
Jan
Feb
Mar
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May
Jun
Jun | 15: S&
1992
416.1
412.6
407.4
407.4
414.8
408.3
415.1 | 1993
435.2
441.7
450.2
443.1
445.3
448.1
447.3 | 1994
473.0
471.6
463.8
447.2
450.9
454.8
451.4 | 1995
465.3
481.9
493.2
507.9
523.8
539.4
557.4 | 1996
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644.1
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763.9
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925.3 | 1998
963.4
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1108.4 | 1999
1248.8
1246.6
1281.7
1334.8
1332.1
1322.6
1381.0 | 2000
1425.6
1388.9
1442.2
1461.4
1418.5
1462.0
1473.0 | 2001
1335.6
1305.8
1185.9
1189.8
1270.4
1238.7
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1140.2
1100.7
1153.8
1112.0
1079.3
1014.0
903.6 | 895.8
837.6
846.6
890.0
936.0
988.0
992.5 | 2004
1132.5
1143.4
1124.0
1133.1
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1105.9 | 1181.4
1199.6
1194.9
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1178.3
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1222.2 | 1278.7
1276.7
1293.7
1302.2
1290.0
1253.1
1260.2 | 1424.2
1444.8
1407.0
1463.7
1511.1
1514.5
1520.7
 | 1378.8
1354.9
1316.9
1370.5
1403.2
1341.3
1257.3 | 865.58
805.23
757.13
848.2
902.4
926.1
935.8 | 1123.6
1089.2
1152.1
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 | 1282.6
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1331.5
1338.3
1287.3
1325.2 | 1300.6
1352.5
1389.2
1386.4
1341.3
1323.5
1359.8 | 1480.4
1512.3
1550.8
1570.7
1639.8
1618.8
1668.7
 | 1822.4
1817.0
1863.5
1864.3
1889.8
1947.1
1973.1 | 2028.2
2082.2
2080.0
2094.9
2111.9
2099.3
2094.1 | 1918.6
1904.4
2022.0
2075.5
2065.6
2083.9
2148.9 | 2275.1
2329.9
2366.8
2359.3
2395.4
2434.0
2454.1 | 2789.8
2705.2
2702.8
2653.6
2701.5
2754.4
2793.6 | 2607
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| Table
Jan
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Jun
Jul | 15: S
1992
416.1
412.6
407.4
407.4
414.8
408.3
415.1
417.9 | 1993
435.2
441.7
450.2
443.1
445.3
448.1
447.3
454.1 | 1994
473.0
471.6
463.8
447.2
450.9
454.8
451.4
454.2 | 1995
465.3
481.9
493.2
507.9
523.8
539.4
557.4
559.1 | 1996
614.4
649.5
647.1
647.2
661.2
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