

Final Data Extracted From Other Sheets:				Indicator Success Rate																			
SPY	Short Term	Medium Term	Long Term	EEM	Short Term	Medium Term	Long Term	GLD	Short Term	Medium Term	Long Term	QQQ	Short Term	Medium Term	Long Term	FXI	Short Term	Medium Term	Long Term	EFA	Short Term	Medium Term	Long Term
Indicator Success Rate				Indicator Success Rate				Indicator Success Rate				Indicator Success Rate				Indicator Success Rate				Indicator Success Rate			
EMA Crossover	50.00%	46.67%	43.33%	EMA Crossover	50.00%	38.89%	44.44%	EMA Crossover	63.64%	54.55%	60.61%	EMA Crossover	63.33%	66.67%	53.33%	EMA Crossover	52.27%	45.45%	43.18%	EMA Crossover	53.13%	43.75%	43.75%
%D Indicator	34.15%	36.59%	36.59%	%D Indicator	62.79%	48.84%	51.16%	%D Indicator	64.86%	48.65%	56.76%	%D Indicator	51.16%	41.86%	41.86%	%D Indicator	50.00%	47.73%	52.27%	%D Indicator	51.16%	60.47%	48.84%
RSI Indicator	37.50%	37.50%	50.00%	RSI Indicator	52.63%	47.37%	57.89%	RSI Indicator	72.73%	63.84%	72.73%	RSI Indicator	33.33%	33.33%	33.33%	RSI Indicator	62.50%	62.50%	87.50%	RSI Indicator	40.00%	46.67%	40.00%
MFI Indicator	37.50%	25.00%	25.00%	MFI Indicator	22.22%	40.40%	55.96%	MFI Indicator	45.45%	54.55%	45.45%	MFI Indicator	35.71%	35.71%	57.14%	MFI Indicator	62.50%	50.00%	62.50%	MFI Indicator	80.00%	60.00%	60.00%
MACD Indicator	47.46%	47.46%	47.46%	MACD Indicator	44.44%	50.79%	50.79%	MACD Indicator	46.03%	47.62%	39.68%	MACD Indicator	31.03%	39.88%	55.17%	MACD Indicator	49.16%	55.74%	57.38%	MACD Indicator	36.51%	46.03%	49.21%
Double Indicator	42.86%	56.00%	53.57%	Double Indicator	53.90%	53.10%	59.18%	Double Indicator	51.43%	42.86%	62.86%	Double Indicator	48.84%	46.51%	60.47%	Double Indicator	53.49%	58.14%	60.47%	Double Indicator	53.33%	53.33%	55.50%
Mean Potential Profits (%)				Mean Potential Profits (%)				Mean Potential Profits (%)				Mean Potential Profits (%)				Mean Potential Profits (%)				Mean Potential Profits (%)			
EMA Crossover	0.14%	-0.14%	-0.13%	EMA Crossover	-0.25%	-0.70%	-0.60%	EMA Crossover	0.19%	0.36%	-0.02%	EMA Crossover	0.36%	0.27%	0.00%	EMA Crossover	0.06%	-0.31%	-0.34%	EMA Crossover	-0.14%	-0.31%	-0.42%
%D Indicator	-0.19%	-0.12%	-0.29%	%D Indicator	0.17%	0.18%	0.06%	%D Indicator	0.07%	0.23%	0.12%	%D Indicator	0.00%	-0.23%	-0.43%	%D Indicator	0.05%	0.31%	0.12%	%D Indicator	0.22%	0.38%	0.28%
RSI Indicator	-0.14%	-0.39%	-0.37%	RSI Indicator	-0.85%	-0.44%	0.00%	RSI Indicator	0.01%	0.11%	-0.20%	RSI Indicator	-0.26%	-0.34%	-0.14%	RSI Indicator	0.22%	0.04%	1.29%	RSI Indicator	0.61%	0.80%	1.04%
MFI Indicator	-0.14%	-0.39%	-0.37%	MFI Indicator	-0.85%	-0.44%	0.00%	MFI Indicator	0.01%	0.11%	-0.20%	MFI Indicator	-0.26%	-0.34%	-0.14%	MFI Indicator	0.22%	0.04%	1.29%	MFI Indicator	0.61%	0.80%	1.04%
MACD Indicator	-0.11%	-0.23%	-0.21%	MACD Indicator	-0.10%	0.03%	0.13%	MACD Indicator	0.09%	-0.04%	-0.17%	MACD Indicator	-0.25%	-0.45%	0.08%	MACD Indicator	0.06%	0.06%	0.16%	MACD Indicator	-0.10%	-0.25%	-0.07%
Double Indicator	-0.14%	0.07%	-0.11%	Double Indicator	-0.04%	0.75%	1.15%	Double Indicator	-0.10%	-0.29%	-0.05%	Double Indicator	0.03%	-0.09%	-0.15%	Double Indicator	0.48%	1.14%	1.26%	Double Indicator	0.11%	0.52%	0.69%

Analysis

Table 3: All Indicator Success Rates

	Short Term	Medium Term	Long Term	All
EMA Crossover	55.39%	49.33%	48.11%	50.94%
%D Indicator	52.35%	47.35%	47.91%	49.21%
RSI Indicator	49.78%	48.50%	56.91%	51.73%
MFI Indicator	47.23%	44.95%	50.94%	47.71%
MACD Indicator	42.44%	47.88%	49.95%	46.76%
Mean	49.44%	47.60%	50.76%	49.27%

Table 5: Mean Double Indicator Success Rate

	Short Term	Medium Term	Long Term	All
	50.50%	50.99%	58.68%	53.39%

Table 7: Difference between Double Indicator Success Rate and Mean of All Indicator Success Rates

	Short Term	Medium Term	Long Term	All
	1.06%	3.39%	7.92%	4.12%

Table 4: All Indicators' Potential Profits

	Short Term	Medium Term	Long Term	All
EMA Crossover	0.04%	-0.09%	-0.25%	-0.11%
%D Indicator	0.10%	0.11%	0.00%	0.05%
RSI Indicator	-0.01%	0.01%	0.27%	0.07%
MFI Indicator	-0.01%	0.01%	0.27%	0.07%
MACD Indicator	-0.06%	-0.13%	-0.02%	-0.08%
Mean	0.01%	-0.02%	0.05%	0.00%

Table 6: Mean Double Indicator Potential Profits

	Short Term	Medium Term	Long Term	All
	0.06%	0.35%	0.47%	0.29%

Table 8: Difference between Mean Double Indicator Potential Profits and Mean of All Indicators' Potential Profits

	Short Term	Medium Term	Long Term	All
	0.04%	0.37%	0.41%	0.29%

SPY	Start of Historical Data:	2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator (Stk RSI Indicator)	MFI Indicator	MACD Indicator	Short Term		Mear	Medium	Term	Long	Term Mean	Best Short Term	Best Medium	Term	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:	Open	High	Low	Close				-0.96%	-2.19%	-2.36%	SELL	SELL	SELL									
9/6/2016 16:00: 218.7	219.12	217.86	219.03	56702089					-1.35%	-2.34%	-2.29%	SELL	SELL	SELL									
9/7/2016 16:00: 218.84	219.22	218.3	219.01	76554855					-1.93%	-2.09%	-1.63%	SELL	SELL	SELL									
9/8/2016 16:00: 218.62	218.94	218.15	218.51	74102880					0.45%	0.35%	1.09%	BUY	BUY	BUY									
9/9/2016 16:00: 216.97	217.03	213.25	213.28	221589073	SELL				-1.13%	-1.36%	-0.25%	SELL	SELL	SELL									
9/12/2016 16:00: 212.39	216.81	212.31	216.34	168110913					0.33%	0.46%	1.18%	BUY	BUY	BUY									
9/13/2016 16:00: 214.84	215.15	212.5	213.23	182826839					0.41%	1.09%	1.15%	BUY	BUY	BUY									
9/14/2016 16:00: 213.29	214.7	212.5	213.15	134185491					-0.87%	0.49%	0.00%	SELL	BUY	BUY									
9/15/2016 16:00: 212.96	215.73	212.75	215.28	145736123					0.40%	1.14%	1.14%	BUY	BUY	BUY									
9/16/2016 16:00: 213.48	213.69	212.57	213.37	155236354					0.97%	0.87%	1.14%	BUY	BUY	BUY									
9/19/2016 16:00: 214.13	214.88	213.03	213.41	80250490					1.36%	0.97%	0.91%	BUY	BUY	BUY									
9/20/2016 16:00: 214.41	214.59	213.38	213.42	69665279					-0.01%	-0.09%	-0.10%	SELL	SELL	SELL									
9/21/2016 16:00: 214.24	216.03	213.44	215.82	110284425					-0.88%	-0.60%	-0.79%	SELL	SELL	SELL									
9/22/2016 16:00: 217	217.53	216.71	217.18	76678713																			
9/23/2016 16:00: 216.72	216.88	215.88	215.99	73630921	BUY				SELL														
9/26/2016 16:00: 215.02	215.23	214.01	214.24	89627305					0.65%	0.63%	0.66%	BUY	BUY	BUY									
9/27/2016 16:00: 214.05	215.68	213.62	215.57	78494829					0.14%	-0.10%	-0.22%	BUY	SELL	SELL									
9/28/2016 16:00: 215.83	216.82	214.71	216.64	87410105					-0.49%	-0.59%	-0.95%	SELL	SELL	SELL									
9/29/2016 16:00: 216.4	216.87	214.04	214.68	128070615					0.42%	0.37%	-0.28%	BUY	BUY	SELL									
9/30/2016 16:00: 215.65	217.12	215.36	216.3	117202914					-0.43%	-0.30%	-1.38%	SELL	SELL	SELL									
10/3/2016 16:00: 215.82	216.04	215.04	215.78	83512057					-0.19%	-0.42%	-1.26%	SELL	SELL	SELL									
10/4/2016 16:00: 215.91	216.17	213.99	214.68	119948052					0.37%	-0.11%	-0.76%	BUY	SELL	SELL									
10/5/2016 16:00: 215.41	216.13	215.33	215.63	72815963					0.01%	-1.04%	-1.05%	BUY	SELL	SELL									
10/6/2016 16:00: 215.37	216.04	214.74	215.78	62927376					-0.42%	-1.16%	-1.03%	SELL	SELL	SELL									
10/7/2016 16:00: 216.1	216.3	214.19	215.04	89788255					-0.28%	-1.02%	-0.50%	SELL	SELL	SELL									
10/10/2016 16:00: 216.16	216.7	215.99	216.16	51855023					-1.28%	-1.43%	-0.88%	SELL	SELL	SELL									
10/11/2016 16:00: 215.66	215.74	212.58	213.43	130367373					BUY														
10/12/2016 16:00: 213.59	214.32	213.01	213.71	73866117					-0.41%	0.12%	0.23%	SELL	BUY	BUY									
10/13/2016 16:00: 212.16	213.59	211.21	213.01	101356960					0.03%	0.49%	0.46%	BUY	BUY	BUY									
10/14/2016 16:00: 214.15	214.69	213.03	213.12	93346237					0.16%	0.53%	0.13%	BUY	BUY	BUY									
10/17/2016 16:00: 213.09	213.39	212.17	212.38	58275674					0.74%	0.93%	0.29%	BUY	BUY	BUY									
10/18/2016 16:00: 214.24	214.31	213.27	213.71	76869656					0.16%	0.26%	-0.65%	BUY	BUY	SELL									
10/19/2016 16:00: 214.02	214.64	213.6	214.28	66519224					-0.01%	-0.27%	-1.32%	SELL	SELL	SELL									
10/20/2016 16:00: 213.87	214.53	213.11	213.88	73639830					0.22%	-0.34%	-1.57%	BUY	SELL	SELL									
10/21/2016 16:00: 212.96	214.08	212.76	213.98	89089092	BUY				0.13%	-0.57%	-2.08%	BUY	SELL	SELL									
10/24/2016 16:00: 215	215.32	214.48	214.89	60146592					SELL														
10/25/2016 16:00: 214.68	214.98	213.98	214.17	66542329					-0.48%	-1.43%	-1.41%	SELL	SELL	SELL									
10/26/2016 16:00: 213.21	214.42	212.93	213.74	75705478					-0.46%	-1.82%	-0.32%	SELL	SELL	SELL									
10/27/2016 16:00: 214.58	214.62	213.08	213.17	77220213					-0.53%	-1.95%	0.92%	SELL	SELL	BUY									
10/28/2016 16:00: 213.14	213.93	211.71	212.54	140623183					BUY														
10/31/2016 16:00: 212.93	213.19	212.36	212.55	61272507					-0.68%	-1.12%	1.61%	SELL	SELL	BUY									
11/1/2016 16:00: 212.93	212.99	209.6	211.01	122781818					-1.27%	-0.29%	1.89%	SELL	SELL	BUY									
11/2/2016 16:00: 210.65	211.1	209.23	209.74	103330806					-0.94%	1.68%	2.86%	SELL	BUY	BUY									
11/3/2016 16:00: 209.99	210.24	208.46	208.78	88939346					0.20%	2.89%	3.60%	BUY	BUY	BUY									
11/4/2016 16:00: 208.91	209.89	208.38	208.55	109122059					1.51%	3.73%	4.38%	BUY	BUY	BUY									
11/7/2016 16:00: 211.45	213.19	211.3	213.15	109794861					1.24%	1.85%	2.69%	BUY	BUY	BUY									
11/8/2016 16:00: 212.69	214.77	212.38	214.11	106772138					SELL														
11/9/2016 16:00: 212.37	217.1	212.34	216.38	258428972	BUY				0.12%	0.92%	1.66%	BUY	BUY	BUY									
11/10/2016 16:00: 217.3	218.31	215.22	216.92	172113313	BUY				0.08%	0.71%	1.76%	BUY	BUY	BUY									
11/11/2016 16:00: 216.08	216.7	215.32	216.42	100552732					0.54%	1.29%	2.03%	BUY	BUY	BUY									
11/14/2016 16:00: 217.03	217.27	215.72	216.59	94579982					0.83%	1.46%	1.99%	BUY	BUY	BUY									
11/15/2016 16:00: 217.04	218.28	216.8	218.28	91652580					0.08%	0.19%	1.16%	BUY	BUY	BUY									
11/16/2016 16:00: 217.56	218.14	217.42	217.87	65617697					0.62%	1.41%	1.13%	BUY	BUY	BUY									
11/17/2016 16:00: 218.05	219.06	217.92	218.99	69797191					0.34%	0.87%	0.52%	BUY	BUY	BUY									
11/18/2016 16:00: 219.07	219.27	218.29	218.5	86265751					0.90%	1.13%	0.76%	BUY	BUY	BUY									
11/21/2016 16:00: 219.17	220.18	219	220.15	72402638					0.36%	0.20%	0.15%	BUY	BUY	BUY									
11/22/2016 16:00: 220.51	220.79	219.73	220.58	67428957					0.15%	-0.13%	0.53%	BUY	SELL	BUY									
11/23/2016 16:00: 219.98	220.76	219.75	220.7	56620237					0.12%	-0.37%	0.99%	SELL	SELL	BUY									
11/25/2016 16:00: 221.1	221.56	221.01	221.52	37872255					-0.42%	-0.65%	1.34%	SELL	SELL	BUY									
11/28/2016 16:00: 221.16	221.48	220.36	220.48	76572511					-0.09%	0.14%	2.33%	SELL	BUY	BUY									
11/29/2016 16:00: 220.52	221.44	220.17	220.91	69886690					-0.47%	0.69%	2.49%	SELL											

SPY	Start of Historical Data:	2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator (Stk RSI Indicator	MFI Indicator	MACD Indicator	Short Term		Mear	Medium	Term	Long	Term Mean	Best Short Term	Best Medium	Term	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term	
	End of Historical Data:	Open	High	Low	Close				-0.04%	-0.01%	-0.31%	SELL	SELL	SELL										
12/14/2016 16:0	227.41	228.23	225.37	225.88	142501812				-0.51%	-0.52%	-0.96%	SELL	SELL	SELL										
12/15/2016 16:0	226.16	227.81	225.89	226.81	124972554				0.38%	0.33%	-0.29%	BUY	BUY	SELL										
12/16/2016 16:0	226.01	226.08	224.67	225.04	156420152				0.14%	-0.03%	-0.27%	BUY	SELL	SELL										
12/19/2016 16:0	225.25	226.02	225.08	225.53	90341147				-0.34%	-0.62%	-0.43%	SELL	SELL	SELL										
12/20/2016 16:0	226.15	226.57	225.88	226.4	89638810																			
12/21/2016 16:0	226.25	226.45	225.77	225.77	67909039	SELL		BUY	0.01%	-0.74%	0.26%	BUY	SELL	BUY										
12/22/2016 16:0	225.6	225.74	224.92	225.38	56219071				0.04%	-0.45%	0.57%	BUY	SELL	BUY										
12/23/2016 16:0	225.43	225.72	225.21	225.71	36697822				-0.31%	-0.26%	0.41%	SELL	SELL	BUY										
12/27/2016 16:0	226.02	226.73	226	226.27	42672487				-0.96%	-0.09%	0.24%	SELL	SELL	BUY										
12/28/2016 16:0	226.57	226.59	224.27	224.4	64095014				-0.01%	0.04%	1.00%	SELL	BUY	BUY										
12/29/2016 16:0	224.48	224.89	223.84	224.35	48696080				0.34%	1.04%	1.09%	BUY	BUY	BUY										
12/30/2016 16:0	224.73	224.83	222.73	223.53	108998328				1.14%	1.42%	1.43%	BUY	BUY	BUY										
1/3/2017 16:00	225.04	225.83	223.88	225.24	91366522				0.66%	0.64%	0.62%	BUY	BUY	BUY										
1/4/2017 16:00	225.62	226.75	225.61	226.58	78744433				0.05%	0.05%	-0.04%	BUY	BUY	SELL										
1/5/2017 16:00	226.27	226.58	225.48	226.4	78379012				0.14%	0.22%	0.01%	BUY	BUY	BUY										
1/6/2017 16:00	226.53	227.75	225.9	227.21	71559922				-0.24%	-0.26%	-0.36%	SELL	SELL	SELL										
1/9/2017 16:00	226.91	227.07	226.42	226.46	46933676				0.10%	0.10%	0.06%	BUY	BUY	BUY										
1/10/2017 16:00	226.48	227.45	226.01	226.46	63771939				0.19%	-0.07%	0.47%	BUY	SELL	BUY										
1/11/2017 16:00	226.36	227.1	225.59	227.1	74650016				-0.22%	-0.28%	0.47%	SELL	SELL	BUY										
1/12/2017 16:00	226.5	226.75	224.96	226.53	72113181				0.07%	-0.12%	1.03%	BUY	SELL	BUY										
1/13/2017 16:00	226.73	227.4	226.69	227.05	62717865				-0.33%	-0.10%	0.79%	SELL	SELL	BUY										
1/17/2017 16:00	226.31	226.78	225.8	226.25	61240814				0.10%	0.67%	0.93%	BUY	BUY	BUY										
1/18/2017 16:00	226.54	226.8	225.9	226.75	54793302				-0.21%	0.92%	0.51%	SELL	BUY	BUY										
1/19/2017 16:00	226.84	227	225.41	225.91	66608787				0.41%	1.50%	0.76%	BUY	BUY	BUY										
1/20/2017 16:00	226.7	227.31	225.97	226.74	129168623				0.46%	0.83%	0.58%	BUY	BUY	BUY										
1/23/2017 16:00	226.35	226.81	225.27	226.15	75061645	SELL			1.19%	0.83%	1.00%	BUY	BUY	BUY										
1/24/2017 16:00	226.4	228.08	226.27	227.6	95555295				0.74%	-0.01%	0.50%	BUY	SELL	BUY										
1/25/2017 16:00	228.7	229.57	228.51	229.57	84437712			SELL	-0.42%	-0.84%	-0.20%	SELL	SELL	SELL										
1/26/2017 16:00	229.4	229.71	229.01	229.33	59970719				-0.57%	-0.47%	0.04%	SELL	SELL	BUY										
1/27/2017 16:00	229.42	229.59	228.76	228.97	59711118				-0.61%	-0.13%	0.48%	SELL	SELL	BUY										
1/30/2017 16:00	228.17	228.2	226.41	227.55	79737252				0.04%	0.67%	1.53%	BUY	BUY	BUY										
1/31/2017 16:00	226.98	227.6	226.32	227.53	75880805			BUY	0.31%	0.66%	2.03%	BUY	BUY	BUY										
2/1/2017 16:00	228.26	228.59	226.94	227.62	79117651	SELL			0.47%	0.87%	2.46%	BUY	BUY	BUY										
2/2/2017 16:00	227.2	228.1	226.82	227.77	69657560				0.57%	1.18%	2.75%	BUY	BUY	BUY										
2/3/2017 16:00	228.82	229.55	228.46	229.34	80563168				-0.13%	1.00%	2.30%	SELL	BUY	BUY										
2/6/2017 16:00	228.87	229.33	228.54	228.93	57790108				0.29%	1.63%	2.78%	BUY	BUY	BUY										
2/7/2017 16:00	229.38	229.66	228.72	228.94	57931151				0.66%	2.12%	2.93%	BUY	BUY	BUY										
2/8/2017 16:00	228.61	229.39	228.31	229.24	51566218				1.04%	2.27%	2.98%	BUY	BUY	BUY										
2/9/2017 16:00	229.56	230.95	229.52	230.6	65955245			SELL	0.89%	1.87%	2.55%	BUY	BUY	BUY										
2/10/2017 16:00	231	231.77	230.62	231.51	66015892				0.99%	1.69%	2.22%	BUY	BUY	BUY										
2/13/2017 16:00	232.08	233.07	232.05	232.77	55182050				0.72%	1.37%	1.68%	BUY	BUY	BUY										
2/14/2017 16:00	232.56	233.71	232.16	233.7	71109893				0.52%	1.16%	1.64%	BUY	BUY	BUY										
2/15/2017 16:00	233.45	235.14	233.39	234.92	66785826				0.22%	0.67%	1.27%	BUY	BUY	BUY										
2/16/2017 16:00	234.96	235.16	233.85	234.72	84722437				0.53%	0.87%	1.50%	BUY	BUY	BUY										
2/17/2017 16:00	233.95	235.09	233.93	235.09	77204104				0.56%	0.72%	1.47%	BUY	BUY	BUY										
2/21/2017 16:00	235.52	236.69	235.51	236.49	88946051				0.00%	0.55%	0.58%	SELL	BUY	BUY										
2/22/2017 16:00	236.02	236.54	235.83	236.28	62115185			SELL	0.20%	0.80%	0.48%	BUY	BUY	BUY										
2/23/2017 16:00	236.88	236.9	235.56	236.44	74615902				0.14%	1.01%	0.25%	BUY	BUY	BUY										
2/24/2017 16:00	235.46	236.79	235.41	236.74	82381612				0.44%	0.59%	0.12%	BUY	BUY	BUY										
2/27/2017 16:00	236.64	237.31	236.35	237.11	56515440				0.45%	0.25%	0.05%	BUY	BUY	BUY										
2/28/2017 16:00	236.67	236.95	236.02	236.47	96961938			SELL	1.00%	0.26%	0.36%	BUY	BUY	BUY										
3/1/2017 16:00	238.39	240.32	238.37	239.78	149158170				-0.69%	-1.24%	-0.81%	SELL	SELL	SELL										
3/2/2017 16:00	239.56	239.57	238.21	238.27	70245978				-0.24%	-0.52%	-0.10%	SELL	SELL	SELL										
3/3/2017 16:00	238.17	238.61	237.73	238.42	81974300				-0.56%	-0.41%	-0.24%	SELL	SELL	SELL										
3/6/2017 16:00	237.5	238.12	237.01	237.71	55391533				-0.38%	-0.10%	0.04%	SELL	SELL	BUY										
3/7/2017 16:00	237.36	237.77	236.7	237	65103737			SELL	0.02%	0.37%	-0.21%	BUY	BUY	SELL										
3/8/2017 16:00	237.34	236.4	236.56	78168795	SELL				0.38%	0.66%	-0.47%	BUY	BUY	SELL										
3/9/2017 16:00	236.7	237.24	235.74	236.86	90683918				0.26%	0.55%	-0.91%	BUY	BUY	SELL										
3/10/2017 16:00	237.97	238.02	236.59	237.69	81991652				0.08%	-0.11%	-1.56%	BUY	SELL	SELL										

SPY	Start of Historical Data:	2/17/2016		5/35 EMA Cross %D Indicator (Stk RSI Indicator)		MFI Indicator	MACD Indicator	Short Term	Mear	Medium	Term	Long Term	Best Short Term	Best Medium	Term	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term	
	End of Historical Data:	2/16/2019	Low	Close	Volume																
3/2/2017 16:00	233.27	235.81	233.14	235.32	93483915	BUY							0.23%	-0.05%	-0.03%	BUY	SELL	SELL			
3/29/2017 16:00	234.99	235.81	234.73	235.54	61950354								0.10%	-0.13%	-0.27%	BUY	SELL	SELL			
3/30/2017 16:00	235.47	236.52	235.27	236.29	56737890								-0.33%	-0.49%	-0.87%	SELL	SELL	SELL			
3/31/2017 16:00	235.9	236.51	235.68	235.74	73733094	BUY							-0.23%	-0.18%	-0.72%	SELL	SELL	SELL			
4/3/2017 16:00:	235.8	236.03	233.91	235.33	85546486								-0.04%	-0.06%	-0.67%	SELL	SELL	SELL			
4/4/2017 16:00:	235	235.58	234.56	235.48	56466195								-0.14%	-0.28%	-0.80%	SELL	SELL	SELL			
4/5/2017 16:00:	236.26	237.39	234.54	234.78	108800604								0.23%	-0.39%	-0.20%	BUY	SELL	SELL			
4/6/2017 16:00:	234.94	236.04	234.43	235.44	69135757								-0.10%	-0.74%	-0.48%	SELL	SELL	SELL			
4/7/2017 16:00	235.15	236	234.64	235.2	74412311								-0.17%	-0.66%	-0.03%	SELL	SELL	SELL			
4/10/2017 16:00	235.36	236.26	234.73	235.34	67615302								-0.63%	-0.59%	0.46%	SELL	SELL	BUY			
4/11/2017 16:00	234.9	235.18	233.34	235.06	88045276								-0.58%	-0.36%	0.90%	SELL	SELL	BUY			
4/12/2017 16:00	234.74	234.96	233.77	234.03	81864436	SELL							-0.16%	0.18%	1.77%	SELL	BUY	BUY			
4/13/2017 16:00	233.64	234.49	232.51	232.51	92880394								0.62%	1.37%	2.54%	BUY	BUY	BUY			
4/17/2017 16:00	233.11	234.57	232.88	234.57	68405367								-0.15%	0.94%	1.65%	SELL	BUY	BUY			
4/18/2017 16:00	233.72	234.49	233.08	233.87	83225821								0.25%	1.78%	1.99%	BUY	BUY	BUY			
4/19/2017 16:00	234.52	234.95	233.18	233.44	68699868								0.97%	2.17%	2.17%	BUY	BUY	BUY			
4/20/2017 16:00	234.15	235.85	233.78	235.34	92572186								0.61%	1.28%	1.42%	BUY	BUY	BUY			
4/21/2017 16:00	235.25	235.31	234.13	234.59	110389847								1.47%	1.65%	1.85%	BUY	BUY	BUY			
4/24/2017 16:00	237.18	237.41	234.56	237.17	119209877	BUY							SELL	0.57%	0.56%	0.83%	BUY	BUY	BUY		
4/25/2017 16:00	237.91	238.95	237.81	238.55	76698265								-0.08%	0.04%	0.35%	SELL	BUY	BUY			
4/26/2017 16:00	238.51	239.53	238.35	238.4	84702455								0.02%	0.11%	0.53%	BUY	BUY	BUY			
4/27/2017 16:00	238.77	238.95	237.98	238.6	57410326								-0.04%	0.16%	0.41%	SELL	BUY	BUY			
4/28/2017 16:00	238.9	238.93	237.93	238.08	63532845								0.24%	0.54%	0.56%	BUY	BUY	BUY			
5/1/2017 16:00:	238.68	239.17	238.2	238.68	66882521								0.00%	0.39%	0.40%	SELL	BUY	BUY			
5/2/2017 16:00:	238.84	238.98	238.3	238.77	57375732								0.09%	0.37%	0.38%	BUY	BUY	BUY			
5/3/2017 16:00:	238.29	238.88	237.7	238.48	73137731								0.37%	0.45%	0.13%	BUY	BUY	BUY			
5/4/2017 16:00:	238.83	238.92	237.78	238.76	61462732								0.35%	0.27%	-0.22%	BUY	BUY	SELL			
5/5/2017 16:00:	239.19	239.72	238.68	239.7	62001269								-0.02%	-0.06%	-0.82%	SELL	SELL	SELL			
5/8/2017 16:00	239.75	239.92	239.17	239.66	48385730								-0.04%	0.05%	-0.86%	SELL	BUY	SELL			
5/9/2017 16:00:	239.96	240.19	239.04	239.44	51363200								-0.01%	-0.30%	-0.32%	SELL	SELL	SELL			
5/10/2017 16:00	239.39	239.87	239.15	239.87	54293799								-0.13%	-0.96%	-0.10%	SELL	SELL	SELL			
5/11/2017 16:00	239.35	239.57	238.13	239.38	62358346								0.17%	-1.01%	0.46%	BUY	SELL	BUY			
5/12/2017 16:00	239.09	239.43	238.67	238.98	53912730								-0.10%	-0.33%	0.86%	SELL	SELL	BUY			
5/15/2017 16:00	239.47	240.44	239.45	240.3	61918937								-1.14%	-0.42%	0.46%	SELL	SELL	BUY			
5/16/2017 16:00	240.64	240.67	239.63	240.08	51241791								-1.30%	-0.01%	0.63%	SELL	SELL	BUY			
5/17/2017 16:00	238.1	238.64	235.75	235.82	172174107	SELL							1.01%	2.11%	2.62%	BUY	BUY	BUY			
5/18/2017 16:00	235.73	237.75	235.43	236.77	107047656								1.07%	1.94%	2.47%	BUY	BUY	BUY			
5/19/2017 16:00	237.33	239.08	237.27	238.31	115011373								0.73%	1.40%	2.07%	BUY	BUY	BUY			
5/22/2017 16:00	238.9	239.71	238.82	239.52	61010602								0.54%	0.85%	1.74%	BUY	BUY	BUY			
5/23/2017 16:00	239.95	240.24	239.51	240.05	48341683								0.55%	0.85%	1.54%	BUY	BUY	BUY			
5/24/2017 16:00	240.32	240.73	239.93	240.61	49181099								0.44%	0.99%	1.27%	BUY	BUY	BUY			
5/25/2017 16:00	241.2	242.08	240.96	241.76	64071661								SELL	-0.09%	0.86%	0.73%	SELL	BUY	BUY		
5/26/2017 16:00	241.54	241.9	241.45	241.71	46629905								0.16%	0.86%	0.76%	BUY	BUY	BUY			
5/30/2017 16:00	241.34	241.79	241.16	241.5	35201897								0.62%	0.88%	0.94%	BUY	BUY	BUY			
5/31/2017 16:00	241.84	241.88	240.64	241.44	91796016								0.99%	0.87%	1.01%	BUY	BUY	BUY			
6/1/2017 16:00	241.97	243.38	241.64	243.36	68962024								0.18%	0.11%	0.25%	BUY	BUY	BUY			
6/2/2017 16:00	243.42	244.35	243.08	244.17	88666128								-0.23%	-0.27%	-0.15%	SELL	SELL	SELL			
6/5/2017 16:00	243.97	244.3	243.76	243.99	44698825								-0.18%	-0.09%	-0.07%	SELL	SELL	SELL			
6/6/2017 16:00	243.34	243.98	243.12	243.21	50375430								0.17%	0.35%	0.13%	BUY	BUY	BUY			
6/7/2017 16:00	243.6	243.92	242.83	243.66	54144311								-0.06%	0.22%	-0.14%	SELL	BUY	SELL			
6/8/2017 16:00	243.77	244.33	243.17	243.78	65950691								0.00%	-0.09%	-0.17%	SELL	SELL	SELL			
6/9/2017 16:00	244.09	245.01	241.95	243.41	132256362								0.26%	0.12%	-0.18%	BUY	BUY	SELL			
6/12/2017 16:00	243.13	243.42	242.38	243.36	86108102								0.34%	0.03%	-0.13%	BUY	BUY	SELL			
6/13/2017 16:00	243.98	244.61	243.58	244.55	60066953								-0.41%	-0.41%	-0.78%	SELL	SELL	SELL			
6/14/2017 16:00	244.86	244.87	243.29	244.24	78602311								-0.23%	-0.53%	-0.59%	SELL	SELL	SELL			
6/15/2017 16:00	242.68	243.91	242.36	243.77	66464888								BUY	-0.14%	-0.33%	-0.58%	SELL	SELL	SELL		
6/16/2017 16:00	242.77	242.83	241.63	242.64	84553097								0.37%	0.18%	-0.27%	BUY	BUY	SELL			
6/19/2017 16:00	243.59	244.73	243.48	244.66	65123802								-0.71%	-0.85%	-1.00%	SELL	SELL	SELL			
6/20/2017 16:00	244.25	244.26	242.99	243.01	56906368	SELL							-0.02%	-0.13%	-0.40%	SELL	SELL	SELL			
6/21/2017 16:00	243.42	243.59	242.41	242.95	55977569								0.06%	-0.37%	-0.46%	BUY	SELL	SELL			
6/22/2017 16:00	242.96	243.53	242.64	242.84	44148059								-0.11%	-0.26%	-0.38%	SELL	SELL	SELL			
6/23/2017 16:00	242.91	243.51	242.47	243.13	66986801								-0.18%	-0.55%	-0.49%	SELL	SELL	SELL			
6/26/2017 16:00	243.9	244.38	243.05	243.29	56700477								-0.51%	-0.42%	-0.61%	SELL	SELL	SELL			
6/27/2017 16:00	243.04	243.38	241.31	241.33	82247666								0.37%	0.21%	0.56%	BUY	BUY	BUY			
6/28/2017 16:00	242.5	243.72	242.23	243.49	70042599								-0.70%	-0.69%	-0.10%	SELL	SELL	SELL			
6/29/2017 16:00	243.66	243.72	239.96	24																	

SPY	Start of Historical Data:	2/17/2016		5/35 EMA Cross %D Indicator (Stk RSI Indicator)		MFI Indicator	MACD Indicator	Short Term	Mear	Medium	Term M	Long Term Mean	Best Short Term	Best Medium	Ter Best	Long Term	Time Frame:	Short Term	Medium Term	Long Term	
	End of Historical Data:	2/16/2019	Low	Close	Volume																
7/7/2017 16:00	241.21	242.28	240.56	242.11	57972268	BUY							0.31%	1.26%	1.88%	BUY	BUY	BUY			
7/10/2017 16:00	241.95	242.8	241.76	242.37	366653274								0.48%	1.33%	1.89%	BUY	BUY	BUY			
7/11/2017 16:00	242.16	242.55	240.85	242.19	50354614								1.02%	1.60%	2.01%	BUY	BUY	BUY			
7/12/2017 16:00	243.3	244.2	243.3	244.01	59610405								0.48%	1.05%	1.28%	BUY	BUY	BUY			
7/13/2017 16:00	244.02	244.55	243.76	244.42	39471637								0.48%	1.05%	1.14%	BUY	BUY	BUY			
7/14/2017 16:00	244.43	245.97	244.31	245.56	60262692								0.20%	0.56%	0.68%	BUY	BUY	BUY			
7/17/2017 16:00	245.47	245.91	245.33	245.53	33531917								0.43%	0.61%	0.63%	BUY	BUY	BUY			
7/18/2017 16:00	245.06	245.72	244.67	245.66	42742498								0.54%	0.64%	0.57%	BUY	BUY	BUY			
7/19/2017 16:00	246.02	247	246.01	246.99	51034260								-0.02%	0.15%	0.05%	SELL	BUY	BUY			
7/20/2017 16:00	247.28	247.42	246.47	247.1	47135183								-0.02%	0.03%	0.01%	SELL	BUY	BUY			
7/21/2017 16:00	246.44	246.91	246.18	246.88	88711019	SELL							0.14%	0.03%	0.16%	BUY	BUY	BUY			
7/24/2017 16:00	246.79	246.98	246.28	246.82	46622256								0.21%	0.07%	0.24%	BUY	BUY	BUY			
7/25/2017 16:00	247.68	247.8	247.16	247.42	54915591								-0.10%	-0.10%	-0.02%	SELL	SELL	SELL			
7/26/2017 16:00	247.75	247.79	247.13	247.43	47575422								-0.19%	-0.08%	0.01%	SELL	SELL	BUY			
7/27/2017 16:00	247.96	248	245.68	247.2	70766568								-0.08%	0.03%	-0.27%	SELL	BUY	SELL			
7/28/2017 16:00	246.65	247.06	246.13	246.91	50088359								0.11%	0.20%	-0.53%	BUY	BUY	SELL			
7/31/2017 16:00	247.37	247.48	246.53	246.77	65838659								0.19%	0.30%	-0.55%	BUY	BUY	SELL			
8/1/2017 16:00	247.46	247.5	246.72	247.32	55050401								-0.02%	0.06%	-0.84%	SELL	BUY	SELL			
8/2/2017 16:00	247.47	247.6	246.37	247.44	47211216								-0.01%	-0.55%	-0.57%	SELL	SELL	SELL			
8/3/2017 16:00	247.31	247.34	246.64	246.96	40855997	BUY							0.22%	-0.78%	-0.48%	BUY	SELL	SELL			
8/4/2017 16:00	247.52	247.79	246.97	247.41	60191838								0.02%	-1.05%	-1.05%	BUY	SELL	SELL			
8/7/2017 16:00	247.49	247.87	247.37	247.87	31995021								-0.72%	-0.87%	-1.60%	SELL	SELL	SELL			
8/8/2017 16:00	247.51	248.91	246.83	247.26	61719353								-0.90%	-0.24%	-1.51%	SELL	SELL	SELL			
8/9/2017 16:00	246.47	247.31	246.06	247.25	62632619								-0.99%	-0.70%	-1.35%	SELL	SELL	SELL			
8/10/2017 16:00	246.29	246.44	243.7	243.76	120479470	SELL							0.81%	0.20%	0.19%	BUY	BUY	BUY			
8/11/2017 16:00	244.02	244.8	243.75	244.12	74869947								1.04%	-0.50%	0.21%	BUY	SELL	BUY			
8/14/2017 16:00	245.59	246.79	245.55	246.54	73291919								-0.42%	-1.16%	-0.86%	SELL	SELL	SELL			
8/15/2017 16:00	246.98	247	246.16	246.51	55242746								-0.92%	-0.90%	-0.82%	SELL	SELL	SELL			
8/16/2017 16:00	247.11	247.57	246.45	246.94	56717554								-1.64%	-0.92%	-0.79%	SELL	SELL	SELL			
8/17/2017 16:00	246.24	246.6	243.09	243.09	12849039	SELL							0.24%	0.53%	1.09%	BUY	BUY	BUY			
8/18/2017 16:00	242.9	244.19	242.2	242.71	136747886								0.66%	0.69%	1.58%	BUY	BUY	BUY			
8/21/2017 16:00	242.64	243.2	241.83	242.9	65469736								0.73%	0.72%	1.63%	BUY	BUY	BUY			
8/22/2017 16:00	243.57	245.62	243.55	245.44	63140101								-0.44%	-0.12%	0.67%	SELL	SELL	BUY			
8/23/2017 16:00	244.33	245.05	244.16	244.56	50203837								-0.08%	0.64%	0.96%	SELL	BUY	BUY			
8/24/2017 16:00	245	245.18	243.75	243.99	50741671								0.27%	1.28%	1.07%	BUY	BUY	BUY			
8/25/2017 16:00	244.9	245.61	244.39	244.56	64445912								0.24%	1.05%	1.16%	BUY	BUY	BUY			
8/28/2017 16:00	245.17	245.2	244.09	244.57	40565606								0.63%	0.97%	1.48%	BUY	BUY	BUY			
8/29/2017 16:00	243.06	245.15	242.93	244.85	51135715								0.92%	0.72%	1.70%	BUY	BUY	BUY			
8/30/2017 16:00	244.83	246.32	244.62	246.01	62030805	BUY							0.46%	0.31%	1.57%	BUY	BUY	BUY			
8/31/2017 16:00	246.72	247.77	246.05	247.49	10308380	SELL							-0.22%	0.03%	0.96%	SELL	BUY	BUY			
9/1/2017 16:00	247.92	248.33	247.67	247.84	62006989								-0.50%	0.31%	0.79%	SELL	BUY	BUY			
9/5/2017 16:00	247.26	247.52	244.95	246.06	91398777								0.29%	1.52%	1.50%	BUY	BUY	BUY			
9/6/2017 16:00	246.84	247.28	246.23	246.9	57916867								0.26%	1.30%	1.15%	BUY	BUY	BUY			
9/7/2017 16:00	247.25	247.27	246.4	246.87	58034730								0.71%	1.19%	1.18%	BUY	BUY	BUY			
9/8/2017 16:00	246.54	247.11	246.3	246.58	63832825								1.31%	1.25%	1.27%	BUY	BUY	BUY			
9/11/2017 16:00	248.04	249.3	248.02	249.21	71364848								0.36%	0.17%	0.10%	BUY	BUY	BUY			
9/12/2017 16:00	249.63	250.09	249.42	250.05	56886027								-0.09%	-0.05%	-0.34%	SELL	SELL	SELL			
9/13/2017 16:00	249.72	250.21	249.59	250.17	59228002								-0.20%	-0.15%	-0.32%	SELL	SELL	SELL			
9/14/2017 16:00	249.8	250.32	249.6	250.09	95446349								-0.19%	-0.18%	-0.19%	SELL	SELL	SELL			
9/15/2017 16:00	248.69	249.29	248.57	249.19	95432382								0.29%	0.03%	0.40%	BUY	BUY	BUY			
9/18/2017 16:00	249.81	250.12	249.28	249.72	46235238								0.03%	-0.23%	0.51%	SELL	BUY	BUY			
9/19/2017 16:00	250	250.07	249.6	249.97	47108148								-0.14%	-0.25%	0.69%	SELL	SELL	BUY			
9/20/2017 16:00	250.07	250.19	248.92	250.06	59574083								-0.32%	-0.09%	0.93%	SELL	SELL	BUY			
9/21/2017 16:00	249.88	249.98	249.19	249.39	48211398								-0.10%	0.46%	1.55%	BUY	BUY	BUY			
9/22/2017 16:00	249.05	249.63	249.02	249.44	51214032								-0.03%	0.75%	1.73%	SELL	BUY	BUY			
9/25/2017 16:00	249.15	249.55	248.08	248.93	57064357								0.36%	1.29%	2.05%	BUY	BUY	BUY			
9/26/2017 16:00	249.42	249.7	248.81	249.08	54081959	BUY							0.59%	1.49%	2.14%	BUY	BUY	BUY			
9/27/2017 16:00	249.88	250.49	248.87	250.05	81001426								0.50%	1.40%	1.78%	BUY	BUY	BUY			
9/28/2017 16:00	249.73	250.44	249.63	250.35	44778841								0.71%	1.48%	1.68%	BUY	BUY	BUY			
9/29/2017 16:00	250.34	251.32	250.13	251.23	85578002	SELL							0.62%	1.23%	1.42%	BUY	BUY	BUY			
10/2/2017 16:00	251.49	252.32	251.29	252.32	59022985								0.49%	0.79%	1.05%	BUY	BUY	BUY			
10/3/2017 16:00	252.46	252.89	252.23	252.86	66810169								0.48%	0.66%	0.88%	BUY	BUY	BUY			
10/4/2017 16:00	252.69	253.44	252.56	253.																	

SPY	Start of Historical Data:	2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator (Stk RSI Indicator	MFI Indicator	MACD Indicator	Short Term		Mear	Medium	Term	Long	Term Mean	Best Short Term	Best Medium	Term	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:	Open	High	Low	Close				-1.33%	-4.51%	-7.89%	SELL	SELL	SELL	SELL	SELL	SELL	SELL	SELL	SELL	SELL	SELL	SELL
1/26/2018 16:00	284.25	286.63	283.96	286.58	107743119				-1.03%	-5.33%	-7.60%	SELL	SELL	SELL	SELL								
1/29/2018 16:00	285.93	286.43	284.5	284.68	90118337				-0.75%	-5.27%	-6.79%	SELL	SELL	SELL	SELL								
1/30/2018 16:00	282.6	284.74	281.22	281.76	131796419	SELL			-2.93%	-6.06%	-5.78%	SELL	SELL	SELL	SELL								
1/31/2018 16:00	282.73	283.3	280.68	281.9	118948131			BUY	-4.29%	-6.86%	-4.65%	SELL	SELL	SELL	SELL								
2/1/2018 16:00	281.07	283.06	280.68	281.58	90102470	SELL			-3.10%	-5.07%	-1.82%	SELL	SELL	SELL	SELL								
2/2/2018 16:00	280.08	280.23	275.41	275.45	173174790				0.33%	0.13%	2.98%	BUY	BUY	BUY	BUY								
2/5/2018 16:00	273.45	275.85	263.31	263.93	294681816	SELL			2.55%	-0.80%	1.03%	SELL	SELL	BUY									
2/6/2018 16:00	259.94	269.7	258.7	269.13	355026782				-2.31%	0.70%	1.33%	SELL	BUY	BUY									
2/7/2018 16:00	268.5	272.36	267.58	267.67	167376100				2.58%	5.54%	5.44%	BUY	BUY	BUY									
2/8/2018 16:00	268.01	268.17	257.59	257.63	246449505				2.09%	4.21%	4.50%	BUY	BUY	BUY									
2/9/2018 16:00	260.8	263.61	252.92	261.5	283565315				1.58%	2.33%	3.40%	BUY	BUY	BUY									
2/12/2018 16:00	263.83	267.01	261.66	265.34	143735976				2.22%	1.74%	3.26%	BUY	BUY	BUY									
2/13/2018 16:00	263.97	266.62	263.31	266	81223640				1.08%	0.79%	1.24%	BUY	BUY	BUY									
2/14/2018 16:00	264.31	270	264.3	269.59	120735685				-0.55%	0.48%	-0.85%	SELL	BUY	SELL									
2/15/2018 16:00	271.57	273.04	268.77	273.03	111200266	BUY			-0.91%	0.94%	-1.08%	SELL	BUY	SELL									
2/16/2018 16:00	272.32	275.32	272.27	273.11	160420135				0.12%	1.20%	-0.35%	BUY	BUY	SELL									
2/20/2018 16:00	272.03	273.67	270.5	271.4	86369662				1.59%	0.45%	0.62%	BUY	BUY	BUY									
2/21/2018 16:00	271.9	274.72	269.94	270.05	98883740				1.95%	-0.34%	0.96%	BUY	SELL	BUY									
2/22/2018 16:00	271.1	273.05	269.64	270.4	110511290																		
2/23/2018 16:00	271.79	274.71	271.25	274.71	92766428	BUY		SELL	-0.02%	-1.84%	-0.02%	SELL	SELL	SELL									
2/26/2018 16:00	275.93	278.01	275.26	277.9	86491406				-2.39%	-2.34%	-0.66%	SELL	SELL	SELL									
2/27/2018 16:00	278.11	278.92	274.36	274.43	99099165				-1.80%	-0.66%	0.96%	SELL	SELL	BUY									
2/28/2018 16:00	275.68	276.19	271.29	271.65	121907767				-0.73%	0.59%	2.10%	SELL	BUY	BUY									
3/1/2018 16:00	271.41	273.17	266	267.7	176855077	SELL			1.38%	2.82%	3.24%	BUY	BUY	BUY									
3/2/2018 16:00	265.8	269.72	264.82	269.08	139083217	SELL		BUY	1.31%	3.00%	2.31%	BUY	BUY	BUY									
3/5/2018 16:00	267.73	272.89	267.61	272.19	97307387			SELL	0.39%	2.15%	0.57%	BUY	BUY	BUY									
3/6/2018 16:00	273.3	273.39	271.18	272.88	79213163				0.87%	1.45%	-0.08%	BUY	BUY	SELL									
3/7/2018 16:00	270.42	273.18	270.2	272.78	87063502	BUY			1.61%	1.06%	-0.46%	BUY	BUY	SELL									
3/8/2018 16:00	273.55	274.24	272.42	274.1	66901150				1.44%	0.27%	-1.90%	BUY	BUY	SELL									
3/9/2018 16:00	275.7	278.87	275.34	278.87	113625335				-0.73%	-2.02%	-4.70%	SELL	SELL	SELL									
3/12/2018 16:00	279.2	279.91	278.08	278.52	71924793				-1.02%	-2.38%	-5.10%	SELL	SELL	SELL									
3/13/2018 16:00	279.84	280.41	276.03	276.72	91968937				-0.68%	-2.20%	-5.37%	SELL	SELL	SELL									
3/14/2018 16:00	277.81	278.02	274.67	275.3	105895079				-0.75%	2.52%	-5.23%	SELL	SELL	SELL									
3/15/2018 16:00	275.88	276.61	274.43	275	83433038				-1.13%	-3.98%	-4.66%	SELL	SELL	SELL									
3/16/2018 16:00	274.5	275.39	274.14	274.2	100343673	SELL			-1.30%	-4.35%	-5.08%	SELL	SELL	SELL									
3/19/2018 16:00	273.35	274.4	268.62	270.49	109208442			BUY	-0.79%	3.41%	-3.77%	SELL	SELL	SELL									
3/20/2018 16:00	270.94	271.67	270.18	270.95	59757271	SELL			-2.55%	-3.36%	-3.58%	SELL	SELL	SELL									
3/21/2018 16:00	270.9	273.27	270.19	270.43	78709578				-3.01%	-3.42%	-3.17%	SELL	SELL	SELL									
3/22/2018 16:00	267.91	268.87	263.36	263.67	148785916				-0.92%	-1.34%	-0.47%	SELL	SELL	SELL									
3/23/2018 16:00	264.17	265.02	257.83	258.05	183534751				1.47%	0.94%	1.72%	BUY	BUY	BUY									
3/26/2018 16:00	262.13	265.43	259.41	265.11	141956102				-1.48%	-1.70%	-0.84%	SELL	SELL	SELL									
3/27/2018 16:00	266.17	266.77	258.84	260.6	129941445				-0.17%	1.05%	0.69%	BUY	BUY	BUY									
3/28/2018 16:00	260.75	262.64	258.58	259.83	146452306				0.24%	1.21%	1.59%	BUY	BUY	BUY									
3/29/2018 16:00	261.12	265.26	259.84	263.15	124244790				-0.97%	-0.39%	0.70%	SELL	SELL	BUY									
4/2/2018 16:00	262.55	263.13	254.67	257.47	186286343				2.27%	1.74%	3.14%	BUY	BUY	BUY									
4/3/2018 16:00	258.87	261.31	256.84	260.77	119956661			BUY	0.84%	0.97%	2.45%	BUY	BUY	BUY									
4/4/2018 16:00	256.75	264.36	256.6	263.56	123715339				-0.55%	0.53%	1.79%	SELL	BUY	BUY									
4/5/2018 16:00	265.55	266.64	264.32	265.64	82652618				-1.39%	-0.26%	1.34%	SELL	SELL	BUY									
4/6/2018 16:00	263.42	265.11	258	259.72	179521209	BUY			1.38%	2.47%	3.58%	BUY	BUY	BUY									
4/9/2018 16:00	261.37	264.84	259.94	261	105442932				1.51%	2.51%	2.73%	BUY	BUY	BUY									
4/10/2018 16:00	264.27	266.04	262.98	265.15	105573736				-0.08%	1.57%	0.42%	SELL	BUY	BUY									
4/11/2018 16:00	263.47	265.64	263.39	263.76	91140243				0.90%	2.30%	0.45%	BUY	BUY	BUY									
4/12/2018 16:00	265.26	267	265.06	265.93	68890480				0.61%	1.02%	-0.40%	BUY	BUY	SELL									
4/13/2018 16:00	267.41	267.54	264.01	265.15	85079176				1.57%	0.83%	-0.11%	BUY	BUY	SELL									
4/16/2018 16:00	267	268.2	266.07	267.33	63405287				0.93%	-0.73%	-0.78%	BUY	SELL	SELL									
4/17/2018 16:00	269.33	270.87	268.75	270.19	64682036				-0.58%	-2.15%	-1.70%	SELL	SELL	SELL									
4/18/2018 16:00	270.69	271.73	269.87	270.39	57303857	BUY			-1.12%	-2.25%	-2.06%	SELL	SELL	SELL									
4/19/2018 16:00	269.65	269.88	267.72	268.89	77655909				-1.30%	-1.26%	-1.88%	SELL	SELL	SELL									
4/20/2018 16:00	266.81	269.06	265.61	266.61	99953133				-0.83%	-0.31%	-0.90%	SELL	SELL	SELL									
4/23/2018 16:00	267.26	267.89	265.35	266.57	65557954				-0.85%	-0.46%	-0.71%	SELL	SELL										

SPY	Start of Historical Data:	2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator (Stk RSI Indicator	MFI Indicator	MACD Indicator	Short Term		Mear	Medium	Term	Long	Term Mean	Best Short Term	Best Medium	Term	Best Long	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:	Open	High	Low	Close				0.57%	0.86%	2.22%	BUY	BUY	BUY									
8/16/2018 16:00	283.4	285.04	283.36	284.06	69967919				0.35%	0.92%	1.91%	BUY	BUY	BUY									
8/17/2018 16:00	283.83	285.56	283.37	285.06	65618481				0.15%	1.19%	1.68%	BUY	BUY	BUY									
8/20/2018 16:00	285.57	285.97	285.06	285.67	39807490				0.05%	1.42%	1.23%	BUY	BUY	BUY									
8/21/2018 16:00	286.25	287.31	285.71	286.34	67271983				0.53%	1.54%	1.10%	BUY	BUY	BUY									
8/22/2018 16:00	285.88	286.76	285.58	286.17	44993333			SELL	1.15%	1.72%	1.00%	BUY	BUY	BUY									
8/23/2018 16:00	285.97	286.94	285.43	285.79	49204851			BUY	1.00%	0.91%	0.25%	BUY	BUY	BUY									
8/24/2018 16:00	286.44	287.67	286.38	287.51	57487399			SELL	0.27%	-0.02%	-0.54%	BUY	SELL	SELL									
8/27/2018 16:00	288.86	289.9	288.68	289.78	57072377				0.27%	-0.32%	-0.50%	BUY	SELL	SELL									
8/28/2018 16:00	290.3	290.42	289.4	289.92	46943472				0.46%	-1.10%	-0.76%	SELL	SELL	SELL									
8/29/2018 16:00	290.16	291.74	289.89	291.48	61485514				-0.20%	-0.81%	-0.11%	SELL	SELL	SELL									
8/30/2018 16:00	290.94	291.36	289.63	290.3	61229501				-0.45%	-0.71%	-0.09%	SELL	SELL	SELL									
8/31/2018 16:00	289.84	290.81	289.29	290.31	66140838				-0.53%	-0.36%	0.23%	SELL	SELL	BUY									
9/4/2018 16:00	289.84	290.21	288.68	289.81	57594367				-0.37%	0.22%	0.54%	SELL	BUY	BUY									
9/5/2018 16:00	289.41	289.64	287.89	289.03	72452437				0.03%	0.73%	1.08%	BUY	BUY	BUY									
9/6/2018 16:00	289.15	289.49	287	288.16	65909863			BUY	0.40%	0.96%	1.50%	BUY	BUY	BUY									
9/7/2018 16:00	286.98	288.7	286.71	287.6	73524824	SELL			0.54%	0.79%	1.34%	BUY	BUY	BUY									
9/10/2018 16:00	288.74	289.04	287.88	288.1	50210903				0.42%	0.50%	0.96%	BUY	BUY	BUY									
9/11/2018 16:00	287.37	289.55	286.98	289.05	50530492				0.43%	0.96%	0.62%	BUY	BUY	BUY									
9/12/2018 16:00	288.06	288.23	288.12	289.12	59810758				-0.16%	0.49%	-0.08%	SELL	BUY	SELL									
9/13/2018 16:00	290.32	291.04	290	290.83	51034222				-0.13%	0.45%	-0.13%	SELL	BUY	SELL									
9/14/2018 16:00	291.06	291.27	290	290.88	55079875				0.89%	0.66%	0.49%	BUY	BUY	BUY									
9/17/2018 16:00	290.82	290.86	289.03	289.34	68244043				0.47%	-0.12%	0.09%	BUY	SELL	BUY									
9/18/2018 16:00	289.58	291.58	289.55	290.91	61930407				0.34%	-0.27%	0.07%	BUY	SELL	BUY									
9/19/2018 16:00	290.97	291.69	290.83	291.22	49080562			SELL	-0.79%	-1.07%	-0.84%	SELL	SELL	SELL									
9/20/2018 16:00	292.64	293.94	291.24	293.58	100360646				-0.49%	-0.32%	-0.64%	SELL	SELL	SELL									
9/21/2018 16:00	293.09	293.22	291.81	291.99	105479656				-0.65%	-0.42%	-0.53%	SELL	SELL	SELL									
9/24/2018 16:00	291.34	291.5	290.37	291.02	53409645			BUY	-0.20%	0.11%	-0.63%	SELL	BUY	SELL									
9/25/2018 16:00	291.53	291.65	290.48	290.75	44370037	SELL			-0.11%	0.32%	-0.90%	SELL	BUY	SELL									
9/26/2018 16:00	290.91	292.24	289.41	289.88	79739674	SELL			0.40%	0.35%	-1.57%	BUY	BUY	SELL									
9/27/2018 16:00	290.41	291.91	290.1	290.69	59249455				0.22%	-0.35%	-3.19%	BUY	SELL	SELL									
9/28/2018 16:00	289.99	291.28	289.95	290.72	70091385				0.33%	-0.81%	-4.22%	BUY	SELL	SELL									
10/1/2018 16:00	292.11	292.93	290.98	291.73	62078937				-0.28%	-1.39%	-5.66%	SELL	SELL	SELL									
10/2/2018 16:00	291.56	292.36	291.14	291.56	47258227				-0.65%	-2.42%	-5.43%	SELL	SELL	SELL									
10/3/2018 16:00	292.74	293.21	291.32	291.72	64694594				-1.15%	-4.26%	-4.77%	SELL	SELL	SELL									
10/4/2018 16:00	291.18	291.24	287.66	289.44	111545910				-0.61%	-4.83%	-3.98%	SELL	SELL	SELL									
10/5/2018 16:00	289.69	290.27	286.22	287.82	105951698				-1.15%	-4.74%	-3.28%	SELL	SELL	SELL									
10/8/2018 16:00	287.05	288.22	285.5	287.82	87742172				-2.96%	-3.79%	-3.75%	SELL	SELL	SELL									
10/9/2018 16:00	287.39	288.86	286.77	287.4	74338982	SELL			-4.15%	-3.13%	-4.20%	SELL	SELL	SELL									
10/10/2018 16:00	286.83	286.91	277.88	278.3	214731042				-1.48%	0.28%	-2.07%	SELL	BUY	SELL									
10/11/2018 16:00	277.08	278.9	270.36	272.17	274840491				1.74%	2.03%	-0.43%	BUY	BUY	SELL									
10/12/2018 16:00	276.77	277.09	272.37	275.95	183186492				0.89%	-0.02%	-2.67%	BUY	SELL	SELL									
10/15/2018 16:00	275.55	277.04	274.3	274.4	102263717				1.71%	0.20%	-3.01%	BUY	SELL	SELL									
10/16/2018 16:00	276.6	280.82	276.07	280.4	118255834				-0.96%	-3.24%	-4.86%	SELL	SELL	SELL									
10/17/2018 16:00	280.44	281.15	277.56	280.45	110625987				-1.63%	-3.84%	-4.83%	SELL	SELL	SELL									
10/18/2018 16:00	279.4	280.07	274.97	276.4	134557525	BUY			-0.52%	-3.43%	-2.70%	SELL	SELL	SELL									
10/19/2018 16:00	277.13	279.3	275.47	276.25	139901634				-1.79%	-3.56%	-1.92%	SELL	SELL	SELL									
10/22/2018 16:00	277	277.36	274.41	275.01	82415812				-1.94%	-3.40%	-0.97%	SELL	SELL	SELL									
10/23/2018 16:00	270.95	274.87	268.61	273.61	146352719				-2.45%	-2.26%	-0.05%	SELL	SELL	SELL									
10/24/2018 16:00	273.33	273.76	264.7	265.32	177806697				0.42%	2.00%	3.78%	BUY	BUY	BUY									
10/25/2018 16:00	267.38	271.81	266.23	270.08	138061545				-1.64%	0.71%	2.75%	SELL	BUY	BUY									
10/26/2018 16:00	265.92	271	262.29	265.33	201574936				0.79%	2.86%	5.00%	BUY	BUY	BUY									
10/29/2018 16:00	268.8	270.25	259.85	263.86	160749101				2.57%	3.64%	5.34%	BUY	BUY	BUY									
10/30/2018 16:00	263.67	268.12	263.12	267.77	157115995				1.58%	3.26%	2.97%	BUY	BUY	BUY									
10/31/2018 16:00	270.65	273.23	270.12	270.63	128296325	BUY			0.85%	3.05%	0.93%	BUY	BUY	BUY									
11/1/2018 16:00	271.6	273.73	270.38	273.51	99495037				-0.02%	2.28%	-0.57%	SELL	BUY	SELL									
11/2/2018 16:00	274.75	275.23	269.59	271.89	122634107	BUY		SELL	1.70%	1.86%	0.13%	BUY	BUY	BUY									
11/5/2018 16:00	272.44	274.01	271.35	273.39	65622482				2.01%	0.27%	-0.69%	BUY	BUY	SELL									
11/6/2018 16:00	273.32	275.3	273.25	275.12	60085894				1.69%	-1.28%	-1.86%	BUY	SELL	SELL									
11/7/2018 16:00	277.56	281.1	277.08	281.01	102752099				-1.45%	-3.29%	-4.63%	SELL	SELL	SELL									
11/8/2018 16:00	280.11	281.22	279.22	280.5	65584866				-2.27%	-2.92%	-5.39%	SELL											

EEM	Start of Historical Data:		2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator (Stk RSI Indicator		MFI Indicator	MACD Indicator	Short Term		Mear	Medium	Term	Long	Term Mean	Best Short Term	Best Medium	Term	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:										-0.08%	-0.80%	1.11%	SELL	SELL	BUY	Indicator Success Rate:								
Date	Open	High	Low	Close	Volume						0.46%	-0.50%	3.46%	BUY	SELL	BUY	EMA Crossover:	50.00%	38.89%	44.44%					
2/18/2016 16:00	30.24	30.63	30.21	30.56	69297618						0.95%	0.02%	6.00%	BUY	BUY	BUY	%D Indicator	62.79%	48.84%	51.16%					
2/19/2016 16:00	30.67	30.67	30.31	30.38	59141156						-2.17%	-1.28%	4.54%	SELL	SELL	BUY	RSI Indicator	52.63%	47.37%	57.89%					
2/22/2016 16:00	30.75	30.99	30.7	30.99	42673436						-0.34%	2.80%	7.14%	SELL	BUY	BUY	MFI Indicator	22.22%	44.44%	55.56%					
2/23/2016 16:00	30.64	30.69	30.29	30.33	54666101						-0.04%	5.09%	7.58%	SELL	BUY	BUY	MACD Indicator	44.44%	50.79%	50.79%					
2/24/2016 16:00	29.84	30.37	29.67	30.26	59334180						0.77%	6.30%	6.93%	BUY	BUY	BUY	Mean/Single Indi	46.42%	46.07%	51.97%					
2/25/2016 16:00	30.22	30.4	30	30.36	45895149						3.73%	8.42%	8.30%	BUY	BUY	BUY	2 Indicators:	53.06%	55.10%	59.18%					
2/26/2016 16:00	30.56	30.58	30.03	30.06	54635593						4.88%	7.52%	7.97%	BUY	BUY	BUY									
2/29/2016 16:00	30.36	30.61	30.29	30.32	65543074						2.78%	3.39%	4.31%	BUY	BUY	BUY	Mean Potential Profits (%)								
3/1/2016 16:00	30.9	31.42	30.89	31.4	69324530						2.42%	1.70%	3.45%	BUY	BUY	BUY	EMA Crossover:	-0.25%	-0.70%	-0.60%					
3/2/2016 16:00	31.44	31.84	31.37	31.82	66977488						1.31%	1.52%	2.84%	BUY	BUY	BUY	%D Indicator	0.17%	0.18%	0.06%					
3/3/2016 16:00	31.85	32.19	31.81	32.18	66934149						-1.09%	0.08%	1.67%	SELL	BUY	BUY	RSI Indicator	-0.65%	-0.44%	0.00%					
3/4/2016 16:00	32.49	32.96	32.41	32.82	102487740						-1.25%	0.24%	3.07%	SELL	BUY	BUY	MFI Indicator	-0.65%	-0.44%	0.00%					
3/7/2016 16:00	32.5	32.93	32.47	32.77	67816590						1.43%	1.97%	5.56%	BUY	BUY	BUY	MACD Indicator	-0.10%	0.03%	0.13%					
3/8/2016 16:00	32.37	32.42	32.09	32.21	50510144						1.35%	2.27%	4.59%	BUY	BUY	BUY	Mean/Single Indi	-0.29%	-0.27%	-0.08%					
3/9/2016 16:00	32.42	32.59	32.31	32.41	54890340						1.20%	3.72%	3.91%	BUY	BUY	BUY	2 Indicators:	-0.04%	0.75%	1.15%					
3/10/2016 16:00	32.6	32.66	31.99	32.46	69716396						-0.90%	2.57%	1.31%	SELL	BUY	BUY									
3/11/2016 16:00	32.95	33.21	32.91	33.14	74998485						0.63%	3.37%	1.85%	BUY	BUY	BUY									
3/14/2016 16:00	33.03	33.15	32.85	32.94	43838477						3.69%	4.26%	3.97%	BUY	BUY	BUY									
3/15/2016 16:00	32.44	32.48	32.29	32.47	66967754						2.64%	1.47%	2.60%	BUY	BUY	BUY									
3/16/2016 16:00	32.21	33.21	32.2	33.12	98218450						0.59%	-1.26%	0.89%	BUY	SELL	BUY									
3/17/2016 16:00	33.57	33.93	33.4	33.85	19336063						-0.52%	-1.30%	0.22%	SELL	SELL	BUY									
3/18/2016 16:00	34.02	34.19	33.99	34.03	102194588						-1.45%	-0.61%	-0.87%	SELL	SELL	SELL									
3/21/2016 16:00	33.99	34.18	33.94	34.1	59921402						-1.75%	0.39%	-1.20%	SELL	SELL	SELL									
3/22/2016 16:00	33.8	34.16	33.79	34.02	41960945						0.44%	2.35%	-0.49%	BUY	SELL	SELL									
3/23/2016 16:00	33.74	33.74	33.4	33.44	58628497						1.60%	2.06%	-0.52%	BUY	BUY	SELL									
3/24/2016 16:00	33.08	33.37	33	33.36	61479061						2.04%	0.56%	-0.30%	BUY	SELL	SELL									
3/28/2016 16:00	33.38	33.48	33.32	33.47	40595508						0.87%	-1.46%	-1.02%	BUY	SELL	SELL									
3/29/2016 16:00	33.27	33.94	33.2	33.93	81638819	SELL					-0.68%	-3.37%	-0.48%	SELL	SELL	SELL									
3/30/2016 16:00	34.44	34.58	34.27	34.28	53128602						-1.73%	-3.00%	0.62%	SELL	SELL	BUY									
3/31/2016 16:00	34.4	34.51	34.15	34.25	109595060						-2.10%	-2.39%	1.47%	SELL	SELL	BUY									
4/1/2016 16:00	33.52	34.21	33.42	34.15	76178771						-1.83%	0.30%	3.00%	SELL	BUY	BUY									
4/4/2016 16:00	34.13	34.14	33.71	33.74	46429033						0.43%	3.87%	5.30%	BUY	BUY	BUY									
4/5/2016 16:00	33.21	33.32	33.02	33.08	61660857						-0.44%	3.58%	4.29%	SELL	BUY	BUY									
4/6/2016 16:00	32.99	33.49	32.9	33.48	56608660	SELL					-0.28%	3.28%	-0.94%	SELL	BUY	SELL									
4/7/2016 16:00	33.04	33.11	32.73	32.81	75406046						3.14%	5.94%	6.55%	BUY	BUY	BUY									
4/8/2016 16:00	33.53	33.57	33.25	33.38	44785168						2.94%	3.92%	4.59%	BUY	BUY	BUY									
4/11/2016 16:00	33.93	34.05	33.76	33.81	63971977						2.57%	3.09%	2.57%	BUY	BUY	BUY									
4/12/2016 16:00	33.93	34.44	33.78	34.33	70261607						1.25%	2.04%	-0.71%	BUY	BUY	SELL									
4/13/2016 16:00	34.88	34.96	34.73	34.94	95376362						-0.72%	0.28%	-0.94%	SELL	BUY	SELL									
4/14/2016 16:00	34.88	34.91	34.72	34.77	49781436						0.24%	0.08%	-0.45%	BUY	BUY	SELL									
4/15/2016 16:00	34.73	34.79	34.57	34.57	61733669						1.33%	-0.10%	0.17%	BUY	SELL	BUY									
4/18/2016 16:00	34.45	34.49	34.38	34.73	51810566						0.88%	-0.61%	-0.57%	BUY	SELL	SELL									
4/19/2016 16:00	35.07	35.34	35.03	35.26	70368815						-1.31%	-1.77%	-3.18%	SELL	SELL	SELL									
4/20/2016 16:00	34.98	35.28	34.85	35.1	51670080						-1.60%	-1.11%	-3.98%	SELL	SELL	SELL									
4/21/2016 16:00	35.01	35.01	34.68	34.75	59286609						-0.67%	-0.40%	-4.17%	SELL	SELL	SELL									
4/22/2016 16:00	34.61	34.85	34.51	34.54	43727083						0.28%	-0.38%	-4.65%	BUY	SELL	SELL									
4/25/2016 16:00	34.52	34.52	34.27	34.32	40116106						1.14%	-0.91%	-4.71%	BUY	SELL	SELL									
4/26/2016 16:00	34.58	34.7	34.48	34.69	46394347						-0.23%	-3.51%	-5.56%	SELL	SELL	SELL									
4/27/2016 16:00	34.55	34.96	34.45	34.9	56192059	SELL					-1.40%	-5.54%	-6.00%	SELL	SELL	SELL									
4/28/2016 16:00	34.55	34.85	34.46	34.54	51718922						1.54%	-5.04%	-5.00%	SELL	SELL	SELL									
4/29/2016 16:00	34.44	34.58	34.11	34.39	86482678						-2.67%	-4.99%	-4.69%	SELL	SELL	SELL									
5/2/2016 16:00	34.39	34.4	34.14	34.3	36886957						-3.89%	-4.50%	-4.71%	SELL	SELL	SELL									
5/3/2016 16:00	33.65	33.71	33.32	33.33	94758375						-1.59%	-1.60%	-2.27%	SELL	SELL	SELL									
5/4/2016 16:00	33.12	33.18	32.77	32.79	105838422	SELL					-0.36%	0.48%	-1.17%	SELL	BUY	SELL									
5/5/2016 16:00	33.11	33.15	32.68	32.78	83029528						-0.07%	-0.26%	-1.43%	SELL	SELL	SELL									
5/6/2016 16:00	32.67	32.97	32.65	32.83	81640035						-0.10%	-0.71%	-1.92%	SELL	SELL</td										

EEM	Start of Historical Data:	2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator (Stk RSI Indicator	MFI Indicator	MACD Indicator	Short Term		Mear	Medium	Term	Long	Term Mean	Best Short Term	Best Medium	Term	Best Long	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:	Open	High	Low	Close				0.03%	2.24%	3.72%	BUY	BUY	BUY									
5/26/2016 16:00	33.13	33.19	32.91	33.09	48215079			SELL	0.35%	3.46%	2.62%	BUY	BUY	BUY									
5/27/2016 16:00	33.21	33.28	32.99	33.08	43342877				1.00%	4.26%	1.10%	BUY	BUY	BUY									
5/31/2016 16:00	33.16	33.3	33.03	33.12	94760091				2.21%	4.48%	0.33%	BUY	BUY	BUY									
6/1/2016 16:00	32.99	33.17	32.91	33.1	52115056				2.56%	2.62%	-0.74%	BUY	BUY	SELL									
6/2/2016 16:00	33.07	33.41	33.02	33.37	48252488	BUY			1.92%	-0.64%	-2.08%	BUY	SELL	SELL									
6/3/2016 16:00	33.78	33.9	33.52	33.88	89424767				1.00%	-3.10%	-2.45%	BUY	SELL	SELL									
6/6/2016 16:00	34.01	34.3	33.98	34.24	110069484				-0.89%	4.19%	-2.73%	SELL	SELL	SELL									
6/7/2016 16:00	34.46	34.59	34.43	34.55	59933998				-3.27%	-4.76%	-2.88%	SELL	SELL	SELL									
6/8/2016 16:00	34.78	34.86	34.66	34.8	75850107				-3.55%	-3.34%	-0.67%	SELL	SELL	SELL									
6/9/2016 16:00	34.33	34.48	34.28	34.4	54934264				-1.27%	-0.28%	1.00%	SELL	SELL	BUY									
6/10/2016 16:00	33.7	33.85	33.45	33.53	77417463				0.25%	2.09%	1.01%	BUY	BUY	BUY									
6/13/2016 16:00	33.09	33.37	33.02	33.06	56865518				0.91%	3.11%	0.77%	BUY	BUY	BUY									
6/14/2016 16:00	32.96	33.12	32.68	32.95	71023798	SELL			0.41%	2.92%	-0.85%	BUY	BUY	SELL									
6/15/2016 16:00	33.29	33.59	33.18	33.3	64707021				1.72%	1.81%	0.81%	BUY	BUY	BUY									
6/16/2016 16:00	32.7	33.21	32.49	33.18	73981908	SELL			2.11%	-0.18%	2.38%	BUY	SELL	BUY									
6/17/2016 16:00	33.24	33.29	33.02	33.27	56740375				1.22%	-3.48%	1.17%	BUY	SELL	BUY									
6/20/2016 16:00	33.9	34.08	33.83	33.86	78204244	BUY			-1.00%	-2.86%	0.28%	SELL	SELL	BUY									
6/21/2016 16:00	34.02	34.22	33.83	34.12	75173081	BUY			0.91%	3.11%	0.77%	BUY	BUY	BUY									
6/22/2016 16:00	34.08	34.16	33.88	33.94	67273460				-2.15%	-0.26%	0.38%	SELL	SELL	BUY									
6/23/2016 16:00	34.4	34.76	34.25	34.76	70159943				-5.97%	-1.16%	-2.13%	SELL	SELL	SELL									
6/24/2016 16:00	32.76	33.46	32.57	32.64	158565994				1.54%	5.19%	4.90%	BUY	BUY	BUY									
6/27/2016 16:00	32.5	32.51	31.89	32.23	103047455	SELL			5.04%	6.01%	7.37%	BUY	BUY	BUY									
6/28/2016 16:00	33	33.2	32.88	33.18	68332893				3.55%	2.05%	5.42%	BUY	BUY	BUY									
6/29/2016 16:00	33.82	34.02	33.76	34.02	82587328	BUY			0.92%	0.07%	3.75%	BUY	BUY	BUY									
6/30/2016 16:00	34.17	34.45	34.01	34.36	92761746				-0.56%	0.02%	3.35%	SELL	BUY	BUY									
7/1/2016 16:00	34.62	34.75	34.54	34.69	66514835				-2.39%	0.56%	2.86%	SELL	BUY	BUY									
7/5/2016 16:00	34.21	34.24	33.9	33.95	63420151				0.27%	3.50%	5.38%	BUY	BUY	BUY									
7/6/2016 16:00	33.49	33.86	33.33	33.86	61084453				1.50%	4.70%	5.70%	BUY	BUY	BUY									
7/7/2016 16:00	34.02	34.12	33.67	33.77	49586830				3.30%	5.34%	6.00%	BUY	BUY	BUY									
7/8/2016 16:00	34.15	34.51	34.11	34.5	74907875				1.85%	3.84%	3.72%	BUY	BUY	BUY									
7/11/2016 16:00	34.79	34.95	34.77	34.83	70201988				1.78%	2.73%	2.72%	BUY	BUY	BUY									
7/12/2016 16:00	35.29	35.43	35.19	35.32	89275177				0.72%	1.43%	1.34%	BUY	BUY	BUY									
7/13/2016 16:00	35.33	35.35	35.03	35.26	62034262				1.60%	1.31%	1.73%	BUY	BUY	BUY									
7/14/2016 16:00	35.65	35.87	35.57	35.77	99969166				0.03%	0.18%	0.31%	BUY	BUY	BUY									
7/15/2016 16:00	35.74	35.77	35.55	35.69	82124283				0.37%	0.21%	0.96%	BUY	BUY	BUY									
7/18/2016 16:00	35.58	36.02	35.58	36.01	75861679				-0.80%	-0.52%	0.24%	SELL	SELL	BUY									
7/19/2016 16:00	35.69	35.76	35.52	35.64	54832738				0.54%	0.55%	1.19%	BUY	BUY	BUY									
7/20/2016 16:00	35.72	35.9	35.62	35.82	48091544				-0.16%	0.43%	0.66%	SELL	BUY	BUY									
7/21/2016 16:00	35.74	35.89	35.61	35.71	65354259				0.32%	1.04%	0.97%	BUY	BUY	BUY									
7/22/2016 16:00	35.83	35.98	35.72	35.97	45498638				-0.37%	0.43%	0.57%	SELL	BUY	BUY									
7/25/2016 16:00	35.84	35.85	35.58	35.61	44174078				1.02%	1.31%	2.29%	BUY	BUY	BUY									
7/26/2016 16:00	35.81	35.96	35.76	35.89	63593832				0.53%	0.33%	2.28%	BUY	BUY	BUY									
7/27/2016 16:00	35.95	36.12	35.65	36.01	67888585				0.31%	0.05%	2.59%	BUY	BUY	BUY									
7/28/2016 16:00	35.95	36.02	35.79	36.02	45589990				0.16%	0.70%	3.26%	BUY	BUY	BUY									
7/29/2016 16:00	36.03	36.25	35.87	36.21	85265694				-0.56%	0.98%	3.13%	SELL	BUY	BUY									
8/1/2016 16:00	36.3	36.36	36.09	36.14	57793966				-0.31%	2.04%	3.84%	SELL	BUY	BUY									
8/2/2016 16:00	36.08	36.17	35.62	35.88	81854648				1.10%	3.26%	4.98%	BUY	BUY	BUY									
8/3/2016 16:00	35.63	36.02	35.55	36	42844922				1.57%	3.60%	4.52%	BUY	BUY	BUY									
8/4/2016 16:00	36.1	36.35	36.02	36.2	70532503				1.87%	3.35%	4.17%	BUY	BUY	BUY									
8/5/2016 16:00	36.46	36.66	36.36	36.62	55759984				1.17%	2.83%	2.79%	BUY	BUY	BUY									
8/8/2016 16:00	36.86	36.96	36.82	36.88	43636843				1.13%	2.18%	1.66%	BUY	BUY	BUY									
8/9/2016 16:00	37.02	37.28	37.01	37.13	65823636				0.76%	1.47%	0.63%	BUY	BUY	BUY									
8/10/2016 16:00	37.32	37.34	37.03	37.14	59111740				1.39%	1.39%	0.09%	BUY	BUY	BUY									
8/11/2016 16:00	37.29	37.64	37.24	37.62	82544259				0.17%	0.01%	-1.53%	BUY	BUY	SELL									
8/12/2016 16:00	37.5	37.6	37.33	37.48	54790365				0.52%	0.06%	-1.39%	BUY	BUY	SELL									
8/15/2016 16:00	37.76	37.98	37.75	37.87	55160066				-0.56%	-1.73%	-2.34%	SELL	SELL	SELL									
8/16/2016 16:00	37.79	37.79	37.57	37.7	62084010				-0.20%	-1.77%	-1.98%	SELL	SELL	SELL									
8/17/2016 16:00	37.41	37.56	37.1	37.46	106432518				0.12%	-1.16%	-1.72%	BUY	SELL	SELL									
8/18/2016 16:00	37.7	37.83	37.6	37.81	63045704				-1.57%	-2.24%	-2.59%	SELL	SELL	SELL									
8/19/2016 16:00	37.4	37.63	37.24	37.6	63995699				-1.51%	-1.70%	-1.80%	SELL	SELL	SELL									
8/22/2016 16:00	37.25	37.25	36.99	37.1	62902102				-0.20%	-0.50%	0.38%	SELL	SELL	BUY									
8/23/2016 16:00	37.42	37.5	36.92	36.95	72474983																		

EEM	Start of Historical Data:	2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator (Stk RSI Indicator	MFI Indicator	MACD Indicator	Short Term	Mear	Medium	Term	Long Term	Best Short Term	Best Medium	Term	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
Date	Open	High	Low	Close	Volume																
12/14/2016 16:0	36.04	36.17	35.24	35.25	95189974	SELL				-0.36%	-2.03%	-1.66%	SELL	SELL	SELL	SELL	SELL				
12/15/2016 16:0	35.27	35.45	35.17	35.31	68897045		SELL			-0.79%	-2.91%	-1.31%	SELL	SELL	SELL	SELL	SELL				
12/16/2016 16:0	35.23	35.34	35.05	35.15	75471111					-0.97%	-2.52%	-0.15%	SELL	SELL	SELL	SELL	SELL				
12/19/2016 16:0	35.17	35.18	34.91	34.91	45241667						BUY		-1.08%	-1.27%	1.26%	SELL	SELL	BUY			
12/20/2016 16:0	35.01	35.1	34.94	35.03	39157788							-2.13%	-0.68%	1.51%	SELL	SELL	BUY				
12/21/2016 16:0	34.69	34.7	34.46	34.49	52040637							-0.66%	1.44%	3.77%	SELL	BUY	BUY				
12/22/2016 16:0	34.12	34.14	33.94	34.08	48802817							1.13%	3.38%	5.37%	BUY	BUY	BUY				
12/23/2016 16:0	34.11	34.28	34.08	34.28	32062910							1.50%	3.21%	5.06%	BUY	BUY	BUY				
12/27/2016 16:0	34.36	34.47	34.35	34.43	25959884							1.62%	3.80%	4.94%	BUY	BUY	BUY				
12/28/2016 16:0	34.72	34.76	34.6	34.69	33745605							1.57%	3.52%	4.71%	BUY	BUY	BUY				
12/29/2016 16:0	35.04	35.3	35.02	35.26	48465533							0.34%	2.04%	3.56%	BUY	BUY	BUY				
12/30/2016 16:0	35.25	35.27	34.91	35.01	60515635							SELL	2.09%	2.80%	4.68%	BUY	BUY	BUY			
1/3/2017 16:00:t	35.39	35.65	35.3	35.43	64483744	BUY						1.35%	2.15%	3.38%	BUY	BUY	BUY				
1/4/2017 16:00:t	35.63	35.77	35.61	35.7	83072622							0.78%	2.13%	2.35%	BUY	BUY	BUY				
1/5/2017 16:00:t	35.96	36.15	35.94	36.09	60305238	BUY						-0.28%	1.54%	1.06%	SELL	BUY	BUY				
1/6/2017 16:00:t	35.97	36	35.84	35.94	33132170							0.70%	2.07%	1.69%	BUY	BUY	BUY				
1/9/2017 16:00:t	35.92	36	35.87	35.91	33950788							1.53%	1.92%	2.28%	BUY	BUY	BUY				
1/10/2017 16:00	36.13	36.32	36.1	36.12	46621738							1.46%	1.02%	2.55%	BUY	BUY	BUY				
1/11/2017 16:00	36.19	36.58	36.05	36.55	92509308							0.36%	-0.38%	2.05%	BUY	SELL	BUY				
1/12/2017 16:00	36.7	36.71	36.52	36.71	38318130							-0.30%	-0.36%	1.95%	SELL	SELL	BUY				
1/13/2017 16:00	36.57	36.71	36.53	36.68	35241962							-0.52%	0.48%	2.09%	SELL	BUY	BUY				
1/17/2017 16:00	36.6	36.72	36.55	36.66	38367034							-0.68%	1.61%	1.96%	SELL	BUY	BUY				
1/18/2017 16:00	36.68	36.69	36.39	36.46	37051465							0.32%	2.61%	2.47%	BUY	BUY	BUY				
1/19/2017 16:00	36.47	36.48	36.2	36.35	52877043							1.39%	3.17%	2.81%	BUY	BUY	BUY				
1/20/2017 16:00	36.39	36.47	36.22	36.42	59295635							2.28%	2.67%	2.94%	BUY	BUY	BUY				
1/23/2017 16:00	36.67	36.97	36.65	36.96	51401810							1.22%	1.08%	1.66%	BUY	BUY	BUY				
1/24/2017 16:00	37.12	37.33	37.1	37.19	45519946							0.84%	0.36%	1.10%	BUY	BUY	BUY				
1/25/2017 16:00	37.45	37.62	37.36	37.6	42660765							-0.55%	-0.51%	0.12%	SELL	SELL	BUY				
1/26/2017 16:00	37.59	37.6	37.41	37.44	43300073							-0.21%	0.28%	0.63%	SELL	BUY	BUY				
1/27/2017 16:00	37.44	37.52	37.32	37.47	30457512							-0.39%	0.46%	0.92%	SELL	BUY	BUY				
1/30/2017 16:00	37.2	37.28	37.11	37.27	34712017							0.37%	0.96%	2.05%	BUY	BUY	BUY				
1/31/2017 16:00	37.31	37.41	37.2	37.34	67258608							0.54%	0.72%	2.31%	BUY	BUY	BUY				
2/1/2017 16:00	37.49	37.56	37.26	37.36	54321520							0.76%	0.86%	2.80%	BUY	BUY	BUY				
2/2/2017 16:00	37.48	37.56	37.42	37.52	26814047							0.28%	1.09%	2.59%	BUY	BUY	BUY				
2/3/2017 16:00:t	37.69	37.82	37.6	37.75	34305228							-0.37%	1.04%	1.99%	SELL	BUY	BUY				
2/6/2017 16:00:t	37.71	37.75	37.63	37.66	30250115							0.05%	1.73%	2.52%	BUY	BUY	BUY				
2/7/2017 16:00:t	37.58	37.62	37.43	37.47	31693709							1.23%	2.67%	3.20%	BUY	BUY	BUY				
2/8/2017 16:00:t	37.49	37.74	37.48	37.7	37862935							1.18%	2.23%	2.83%	BUY	BUY	BUY				
2/9/2017 16:00:t	37.86	37.94	37.81	37.87	38286651							1.17%	1.78%	2.43%	BUY	BUY	BUY				
2/10/2017 16:00	37.96	38.22	37.94	38.22	38798731							0.65%	0.95%	1.20%	BUY	BUY	BUY				
2/13/2017 16:00	38.22	38.38	38.21	38.34	34006963							0.52%	0.97%	0.27%	BUY	BUY	BUY				
2/14/2017 16:00	38.34	38.38	38.03	38.38	55327347							0.43%	1.34%	-0.07%	BUY	SELL	SELL				
2/15/2017 16:00	38.39	38.71	38.35	38.69	49527259							-0.28%	0.24%	-1.25%	SELL	BUY	SELL				
2/16/2017 16:00	38.73	38.73	38.52	38.55	42986824							0.42%	0.11%	-1.00%	BUY	BUY	SELL				
2/17/2017 16:00	38.25	38.4	38.22	38.39	54880654	SELL						1.31%	-0.30%	-0.44%	BUY	SELL	SELL				
2/21/2017 16:00	38.63	38.82	38.59	38.81	42603681							-0.07%	-1.29%	-1.73%	SELL	SELL	SELL				
2/22/2017 16:00	38.75	38.93	38.73	38.93	39083504							-0.86%	-1.99%	-2.04%	SELL	SELL	SELL				
2/23/2017 16:00	39.13	39.15	38.88	38.94	46763059							-1.70%	-1.84%	-2.45%	SELL	SELL	SELL				
2/24/2017 16:00	38.47	38.56	38.42	38.48	44575133	SELL						-0.44%	-0.99%	-1.42%	SELL	SELL	SELL				
2/27/2017 16:00	38.37	38.48	38.27	38.36	53625475							-0.53%	-0.37%	-0.92%	SELL	SELL	SELL				
2/28/2017 16:00	38.32	38.33	37.98	37.99	71508890							0.61%	0.33%	0.33%	BUY	BUY	BUY				
3/1/2017 16:00:t	38.3	38.6	38.28	38.58	93966280	SELL						-1.24%	-1.74%	-0.08%	SELL	SELL	SELL				
3/2/2017 16:00:t	38.2	38.27	37.89	37.9	63517956							0.84%	-0.18%	2.73%	SELL	SELL	BUY				
3/3/2017 16:00:t	38.08	38.23	37.96	38.19	54969881							-0.19%	-0.38%	2.57%	SELL	SELL	BUY				
3/6/2017 16:00:t	38.25	38.26	38.09	38.21	30455760							-0.79%	0.21%	3.61%	SELL	BUY	BUY				
3/7/2017 16:00	38.33	38.35	38.18	38.25	43470406							-1.10%	1.25%	3.63%	SELL	BUY	BUY				
3/8/2017 16:00	38.16	38.22	37.86	37.89	60587032							0.41%	3.11%	4.70%	BUY	BUY	BUY				
3/9/2017 16:00:t	37.7	37.76	37.39	37.59	64159105							1.86%	4.97%	5.69%	BUY	BUY	BUY				
3/10/2017 16:00	37.89	38.01	37.8	38.01	45184899							1.89%	4.39%	4.40%	BUY	BUY	BUY				
3/13/2017 16:00	38.41	38.57	38.37	38.54	42405890	BUY						1.37%	2.91%	3.09%	BUY	BUY	BUY				
3/14/2017 16:00	38.42	38.47	38.29	38.32	56600251							2.97%	3.69%	3.75%	BUY	BUY	BUY				
3/15/2017 16:00	38.52	39.39	38.41	39.32	124080884							0.92%	0.81%	1.22%	BUY	BUY	BUY				
3/16/2017 16:00	39.6	39.65	39.44	39.56	137911751							0.26%	0.46%	0.52%	BUY	BUY	BUY				
3/17/2017 16:00	39.6	39.62	39.46	39.49	68267940							0.62%	0.63%	0.50%	BUY	BUY	BUY				
3/20/2017 16:00	39.74	40.06	39.68	39.99	70310042							-0.88%	-0.54%	-0.88%	SELL	SELL	SELL				
3/21/2017 16:00	40.15	40.23	39.48	39.51	71712924							0.58%	0.73%	0.16%	BUY	BUY	BUY				
3/22/2017 16:00	39.48	39.79	39.38	39.7	70134050							0.10%	0.22%	-0.42%	BUY	BUY	SELL				

EEM	Start of Historical Data:	2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator (Stk RSI Indicator	MFI Indicator	MACD Indicator	Short Term	Mear	Medium	Term	Long Term	Mean	Best Short Term	Best Medium	Ter	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
Date	Open	High	Low	Close	Volume																	
3/28/2017 16:00	39.67	39.93	39.67	39.81	51799005				-0.41%	-0.57%	-1.32%	SELL	SELL	SELL								
3/29/2017 16:00	39.72	39.91	39.64	39.88	36856977				-0.81%	-0.89%	-1.57%	SELL	SELL	SELL								
3/30/2017 16:00	39.72	39.84	39.64	39.67	33282533				-0.32%	-0.58%	-1.20%	SELL	SELL	SELL								
3/31/2017 16:00	39.42	39.48	39.31	39.39	94971508		BUY		0.49%	-0.13%	-0.28%	BUY	SELL	SELL								
4/3/2017 16:00:	39.51	39.65	39.37	39.61	60048290	SELL			-0.21%	-0.95%	-0.88%	SELL	SELL	SELL								
4/4/2017 16:00:	39.53	39.69	39.46	39.63	44136505				-0.48%	-1.05%	-1.24%	SELL	SELL	SELL								
4/5/2017 16:00:	39.8	39.9	39.49	39.51	44099174				-0.43%	-0.81%	-0.85%	SELL	SELL	SELL								
4/6/2017 16:00:	39.47	39.54	39.32	39.44	35544831				-0.52%	-0.27%	-0.84%	SELL	SELL	SELL								
4/7/2017 16:00:	39.36	39.55	39.33	39.37	40355764				-0.40%	-0.31%	-0.15%	SELL	SELL	SELL								
4/10/2017 16:00	39.22	39.26	39.09	39.21	33853798				-0.05%	-0.19%	1.14%	SELL	SELL	BUY								
4/11/2017 16:00	39.2	39.25	38.89	39.12	46002845				0.55%	-0.18%	1.86%	BUY	SELL	BUY								
4/12/2017 16:00	39.29	39.32	39.07	39.31	55149077				-0.16%	-0.46%	1.82%	SELL	SELL	BUY								
4/13/2017 16:00	39.4	39.5	39.13	39.14	48182489				-0.01%	0.86%	2.40%	SELL	BUY	BUY								
4/17/2017 16:00	39.32	39.55	39.26	39.55	29862304				-1.26%	0.58%	1.39%	SELL	BUY	BUY								
4/18/2017 16:00	39.1	39.24	38.96	39.05	50889201				0.20%	2.52%	3.03%	BUY	BUY	BUY								
4/19/2017 16:00	39.15	39.16	38.71	38.81	58751142				1.72%	3.28%	3.86%	BUY	BUY	BUY								
4/20/2017 16:00	39.23	39.3	39.11	39.29	46722886				1.25%	1.90%	2.47%	BUY	BUY	BUY								
4/21/2017 16:00	39.3	39.35	39.22	39.29	32949549	BUY			1.89%	2.10%	2.41%	BUY	BUY	BUY								
4/24/2017 16:00	39.87	39.93	39.75	39.85	63549750				0.59%	1.15%	0.72%	BUY	BUY	BUY								
4/25/2017 16:00	40.14	40.31	40.1	40.2	50957380		SELL		-0.41%	0.48%	0.07%	SELL	BUY	BUY								
4/26/2017 16:00	40.13	40.25	40	40.05	56451984				0.17%	0.50%	1.14%	BUY	BUY	BUY								
4/27/2017 16:00	40.13	40.14	39.88	40	42298065				0.77%	0.30%	1.80%	BUY	BUY	BUY								
4/28/2017 16:00	40.04	40.13	39.93	40.06	56635409				0.83%	0.04%	2.30%	BUY	BUY	BUY								
5/1/2017 16:00:	40.24	40.4	40.15	40.29	41171016				-0.10%	0.16%	2.30%	SELL	BUY	BUY								
5/2/2017 16:00:	40.46	40.63	40.41	40.58	55325459				-1.13%	0.07%	2.01%	SELL	BUY	BUY								
5/3/2017 16:00:	40.41	40.45	40.2	40.31	58336148				-0.58%	1.46%	2.65%	SELL	BUY	BUY								
5/4/2017 16:00:	40.09	40.11	39.83	39.86	81078255				1.24%	3.05%	3.22%	BUY	BUY	BUY								
5/5/2017 16:00:	39.8	40.19	39.79	40.19	52581021				1.05%	2.77%	2.07%	BUY	BUY	BUY								
5/8/2017 16:00	40.3	40.4	40.15	40.18	35951542				1.79%	3.32%	1.79%	BUY	BUY	BUY								
5/9/2017 16:00:	40.49	40.81	40.46	40.69	70127299				0.95%	1.82%	0.68%	BUY	BUY	BUY								
5/10/2017 16:00	40.81	40.96	40.76	40.96	47629112				0.84%	0.05%	0.68%	BUY	BUY	BUY								
5/11/2017 16:00	41.01	41.12	40.81	41.05	37366092				1.13%	-0.60%	0.73%	BUY	SELL	BUY								
5/12/2017 16:00	41.11	41.26	41.1	41.22	65418202				0.51%	-0.83%	0.65%	BUY	SELL	BUY								
5/15/2017 16:00	41.43	41.66	41.4	41.64	52560962				-1.59%	-1.08%	-0.19%	SELL	SELL	SELL								
5/16/2017 16:00	41.61	41.7	41.53	41.68	41936342				-2.10%	-0.98%	-0.40%	SELL	SELL	SELL								
5/17/2017 16:00	41.32	41.37	40.95	40.97	63287347	SELL			-0.23%	1.06%	1.30%	SELL	BUY	BUY								
5/18/2017 16:00	39.98	40.65	39.82	40.29	121234696				2.23%	3.19%	3.02%	BUY	BUY	BUY								
5/19/2017 16:00	40.88	41.23	40.87	41.15	63741950				0.29%	1.13%	0.98%	BUY	BUY	BUY								
5/22/2017 16:00	41.19	41.32	41.15	41.19	46357544	SELL	BUY		0.52%	0.72%	1.21%	BUY	BUY	BUY								
5/23/2017 16:00	41.22	41.28	41.12	41.23	39495566				0.83%	0.47%	1.19%	BUY	BUY	BUY								
5/24/2017 16:00	41.24	41.46	41.2	41.39	49380823		SELL		0.55%	0.27%	0.90%	BUY	BUY	BUY								
5/25/2017 16:00	41.61	41.73	41.51	41.59	39606853				-0.25%	0.20%	0.35%	SELL	BUY	BUY								
5/26/2017 16:00	41.67	41.76	41.63	41.74	31372722				-0.76%	-0.02%	-0.21%	SELL	SELL	SELL								
5/30/2017 16:00	41.51	41.58	41.44	41.52	35122845	SELL			-0.04%	0.45%	0.26%	SELL	BUY	BUY								
5/31/2017 16:00	41.4	41.42	41.13	41.2	80159450		BUY		1.15%	1.41%	0.83%	BUY	BUY	BUY								
6/1/2017 16:00	41.31	41.56	41.21	41.55	46802081				0.44%	0.46%	-0.29%	BUY	BUY	SELL								
6/2/2017 16:00	41.7	41.79	41.6	41.76	43699219				-0.13%	-0.28%	-0.90%	SELL	SELL	SELL								
6/5/2017 16:00	41.75	41.85	41.67	41.71	39245537				0.17%	-0.43%	-0.76%	BUY	SELL	SELL								
6/6/2017 16:00	41.66	41.82	41.64	41.73	34184858				0.02%	-0.50%	-1.16%	BUY	SELL	SELL								
6/7/2017 16:00	41.6	41.76	41.45	41.68	34745374	SELL			-0.09%	-0.58%	-1.09%	SELL	SELL	SELL								
6/8/2017 16:00	41.96	41.98	41.77	41.93	48941401				-0.95%	-1.46%	-1.65%	SELL	SELL	SELL								
6/9/2017 16:00	41.96	42.04	41.38	41.61	73660798				-0.22%	-0.66%	-0.97%	SELL	SELL	SELL								
6/12/2017 16:00	41.37	41.42	41.19	41.39	52374239	SELL			0.12%	-0.27%	0.11%	BUY	SELL	BUY								
6/13/2017 16:00	41.61	41.64	41.45	41.59	38327816				-0.66%	-0.87%	-0.16%	SELL	SELL	SELL								
6/14/2017 16:00	41.9	41.92	41.44	41.58	70500377				-0.59%	-1.13%	0.13%	SELL	SELL	BUY								
6/15/2017 16:00	41.08	41.17	40.9	41.15	87666093				0.31%	0.32%	1.00%	BUY	BUY	BUY								
6/16/2017 16:00	41.24	41.29	41.04	41.22	53875924				0.02%	0.82%	0.52%	BUY	BUY	BUY								
6/19/2017 16:00	41.47	41.7	41.44	41.63	68181236				-1.25%	-0.06%	-0.34%	SELL	SELL	SELL								
6/20/2017 16:00	41.32	41.33	40.95	40.98	71371996				0.74%	1.71%	1.13%	BUY	BUY	BUY								
6/21/2017 16:00	41.17	41.27	41	41.07	54840399				1.19%	0.92%	0.82%	BUY	BUY	BUY								
6/22/2017 16:00	41.29	41.45	41.19	41.28	50400697				0.78%	0.39%	0.15%	BUY	SELL	BUY								
6/23/2017 16:00	41.35	41.58	41.32	41.5	46141188				0.43%	-0.22%	-0.45%	BUY	SELL	SELL								
6/26/2017 16:00	41.89	42.01	41.76	41.9	44381003				-1.08%	-0.90%	-1.22%	SELL	SELL	SELL								
6/27/2017 16:00	41.67	41.77	41.4	41.41	54889417				0.07%													

EEM	Start of Historical Data:	2/17/2016		5/35 EMA Cross %D Indicator (Stk RSI Indicator)		MFI Indicator	MACD Indicator	Short Term		Mear	Medium	Term	Long	Term Mean	Best Short Term	Best Medium	Ter	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term	
	End of Historical Data:	2/16/2019		Low	Close			Volume			-0.65%	-1.32%	-1.75%	SELL	SELL	SELL							
Date	Open	High																					
10/16/2017 16:0	46.78	46.82	46.62	46.63	34089396						-0.23%	-1.15%	-0.98%	SELL	SELL	SELL							
10/17/2017 16:0	46.51	46.53	46.3	46.39	38826205						-0.90%	-1.68%	-0.65%	SELL	SELL	SELL							
10/18/2017 16:0	46.55	46.65	46.41	46.5	36187183						-0.17%	-0.62%	0.47%	SELL	SELL	BUY							
10/19/2017 16:0	46.02	46.12	45.89	46.09	51486974						-0.87%	-0.94%	0.37%	SELL	SELL	BUY							
10/20/2017 16:0	46.32	46.35	46.18	46.26	46370198						-0.37%	0.44%	1.49%	SELL	BUY	BUY							
10/23/2017 16:0	46.18	46.19	45.88	45.89	47564006						-0.19%	0.71%	1.51%	SELL	BUY	BUY							
10/24/2017 16:0	45.98	46.14	45.88	45.89	40213393	SELL					0.07%	1.46%	1.85%	BUY	BUY	BUY							
10/25/2017 16:0	46.07	46.13	45.43	45.79	57309647						1.34%	2.20%	2.62%	BUY	BUY	BUY							
10/26/2017 16:0	45.82	45.91	45.47	45.48	55320537						0.17%	0.98%	0.85%	BUY	BUY	BUY							
10/27/2017 16:0	45.72	46.19	45.58	46.14	55225617						1.33%	1.61%	1.28%	BUY	BUY	BUY							
10/30/2017 16:0	45.99	46.11	45.79	45.85	35732536						0.43%	0.98%	-0.15%	BUY	BUY	SELL							
10/31/2017 16:0	46.13	46.28	46.06	46.28	63902279						0.16%	0.19%	-1.12%	BUY	BUY	SELL							
11/1/2017 16:00	46.7	46.85	46.49	46.52	51926299						0.01%	-0.13%	-1.08%	BUY	SELL	SELL							
11/2/2017 16:00	46.59	46.63	46.36	46.58	38024475						0.85%	-0.04%	-0.23%	BUY	SELL	SELL							
11/3/2017 16:00	46.54	46.56	46.09	46.34	42909923						-0.53%	1.58%	-0.71%	SELL	SELL	SELL							
11/6/2017 16:00	46.56	46.87	46.54	46.86	30828532						-0.09%	-1.41%	1.03%	SELL	SELL	BUY							
11/7/2017 16:00	46.81	46.87	46.49	46.56	46904397						-0.98%	-1.59%	1.21%	SELL	SELL	BUY							
11/8/2017 16:00	46.7	46.81	46.62	46.78	35006334						-0.80%	-0.30%	2.32%	SELL	SELL	BUY							
11/9/2017 16:00	46.46	46.59	46.14	46.49	39894897						-0.84%	1.15%	2.73%	SELL	BUY	BUY							
11/10/2017 16:00	46.43	46.46	46.19	46.29	32484355	SELL					-0.33%	2.16%	2.78%	SELL	BUY	BUY							
11/13/2017 16:00	46.13	46.29	46.02	46.19	52239657	SELL					1.02%	3.57%	2.82%	BUY	BUY	BUY							
11/14/2017 16:00	46.11	46.16	45.82	45.88	56682271						2.59%	4.59%	2.48%	BUY	BUY	BUY							
11/15/2017 16:00	45.65	45.77	45.45	45.64	49000924						1.29%	1.97%	-0.24%	BUY	BUY	SELL							
11/16/2017 16:00	46.31	46.73	46.3	46.59	46316431						1.50%	1.15%	-1.50%	BUY	BUY	SELL							
11/17/2017 16:00	46.73	47.02	46.7	46.82	46258926						1.44%	-0.14%	-2.37%	BUY	SELL	SELL							
11/20/2017 16:00	46.77	47.1	46.75	47.06	45493820						-0.38%	-2.10%	-4.09%	SELL	SELL	SELL							
11/21/2017 16:00	47.63	47.88	47.61	47.69	63587672						-0.94%	-3.40%	-4.56%	SELL	SELL	SELL							
11/22/2017 16:00	47.84	47.93	47.65	47.81	60764043						-1.50%	-3.67%	-4.35%	SELL	SELL	SELL							
11/24/2017 16:00	47.66	47.74	47.61	47.71	25838321						-0.68%	-2.38%	-2.79%	SELL	SELL	SELL							
11/27/2017 16:00	47.31	47.33	46.99	47.01	47853180						-2.48%	-3.50%	-3.20%	SELL	SELL	SELL							
11/28/2017 16:00	47.39	47.52	47.18	47.36	54357626						-1.40%	-2.32%	-1.10%	SELL	SELL	SELL							
11/29/2017 16:00	47.17	47.17	46.5	46.61	66269838						-0.46%	-1.21%	0.06%	SELL	SELL	BUY							
11/30/2017 16:00	46.47	46.48	46.07	46.1	118059328	SELL					-0.30%	0.00%	0.63%	SELL	SELL	BUY							
12/1/2017 16:00	45.98	46.07	45.62	45.84	88358904						-0.87%	0.13%	0.88%	SELL	BUY	BUY							
12/4/2017 16:00	46.35	46.43	45.89	45.93	67381607	SELL					-0.78%	0.54%	0.59%	SELL	BUY	BUY							
12/5/2017 16:00	45.96	46.21	45.86	45.9	32126431						1.24%	1.84%	1.82%	BUY	BUY	BUY							
12/6/2017 16:00	45.18	45.38	45.06	45.28	81862776						1.28%	1.78%	1.50%	BUY	BUY	BUY							
12/7/2017 16:00	45.1	45.53	45.05	45.41	70820766						0.45%	0.81%	0.22%	BUY	BUY	BUY							
12/8/2017 16:00	45.92	46	45.74	45.94	42794875						-0.12%	0.07%	0.11%	SELL	BUY	BUY							
12/11/2017 16:00	46.12	46.26	46.1	46.17	46795936						0.78%	0.49%	1.20%	BUY	BUY	BUY							
12/12/2017 16:00	45.74	45.96	45.66	45.86	47157787						-0.22%	-1.12%	0.43%	SELL	SELL	BUY							
12/13/2017 16:00	46.15	46.56	46.14	46.41	75946181	BUY					0.29%	0.15%	1.51%	BUY	BUY	BUY							
12/14/2017 16:00	46.26	46.38	46.07	46.07	50968221						-0.19%	0.40%	2.13%	SELL	BUY	BUY							
12/15/2017 16:00	46.16	46.26	45.93	46.17	67881229						0.88%	4.17%	5.49%	BUY	BUY	BUY							
12/18/2017 16:00	46.57	46.85	46.53	46.69	61186071	BUY					1.64%	4.70%	5.17%	BUY	BUY	BUY							
12/19/2017 16:00	46.07	45.68	45.68	45.75	51306757	SELL					2.06%	4.46%	4.66%	BUY	BUY	BUY							
12/20/2017 16:00	45.96	46.02	45.8	45.81	42832807						2.71%	4.21%	4.31%	BUY	BUY	BUY							
12/21/2017 16:00	46	46.27	45.97	46.11	40602244						0.87%	2.67%	5.98%	BUY	BUY	BUY							
12/22/2017 16:00	46.29	46.51	46.23	46.5	40032655	BUY					0.32%	2.94%	5.39%	BUY	BUY	BUY							
12/26/2017 16:00	46.42	46.47	46.26	46.46	29614138						0.88%	4.17%	5.49%	BUY	BUY	BUY							
12/27/2017 16:00	46.52	46.64	46.45	46.58	35373191						1.64%	4.70%	5.17%	BUY	BUY	BUY							
12/28/2017 16:00	47.01	47.05	46.79	46.9	34284347						2.71%	4.21%	4.31%	BUY	BUY	BUY							
12/29/2017 16:00	47.28	47.32	47.06	47.12	46485096						1.58%	2.01%	3.02%	BUY	BUY	BUY							
1/2/2018 16:00	47.78	48.07	47.73	48.01	68969445						1.07%	0.98%	2.55%	BUY	BUY	BUY							
1/3/2018 16:00	48.29	48.54	48.28	48.47	56228656						0.81%	0.79%	2.53%	BUY	BUY	BUY							
1/4/2018 16:00	48.59	48.78	48.57	48.71	52154899						-0.32%	0.33%	2.37%	SELL	BUY	BUY							
1/5/2018 16:00	48.82	49.14	48.77	49.13	50026859						-0.36%	0.96%	2.88%	SELL	BUY	BUY							
1/8/2018 16:00	49.06	49.22	49.02	49.13	36998238						0.10%	1.47%	3.74%	BUY	BUY	BUY							
1/9/2018 16:00	49.12	49.13	48.83	49.05	42131612						1.14%	2.77%	4.92%	BUY	BUY	BUY							
1/10/2018 16:00	48.68	48.84	48.53	48.74	72183945						0.53%	2.43%	4.09%	BUY	BUY	BUY							

EEM	Start of Historical Data:	2/17/2016			5/35 EMA Cross %D Indicator (Stk RSI Indicator)			MFI Indicator	MACD Indicator	Short Term			Mear	Medium	Term	Long	Time Frame:	Short Term	Medium Term	Long Term	
	End of Historical Data:	2/16/2019			Low	Close	Volume						Term	Mean	Best Short Term	Best Medium	Term	Best Long Term			
Date	Open	High																			
5/8/2018 16:00:	46.27	46.44	45.98	46.42	58783587						1.53%	1.34%	-0.16%	BUY	BUY	SELL					
5/9/2018 16:00:	46.56	46.61	46.27	46.51	46129470						2.01%	0.42%	-0.33%	BUY	BUY	SELL					
5/10/2018 16:00	47.07	47.65	46.99	47.48	115804028					SELL	-0.77%	-1.92%	-2.28%	SELL	SELL	SELL					
5/11/2018 16:00	47.68	47.73	47.28	47.4	68838643	BUY					-0.76%	-2.33%	-2.07%	SELL	SELL	SELL					
5/14/2018 16:00	47.66	47.78	47.39	47.46	34353335						-1.59%	-2.42%	-2.81%	SELL	SELL	SELL					
5/15/2018 16:00	46.58	46.7	46.28	46.48	78379271						0.19%	-0.06%	-1.18%	BUY	SELL	SELL					
5/16/2018 16:00	46.92	47.27	46.92	47.18	60004232						-1.88%	-1.62%	-2.94%	SELL	SELL	SELL					
5/17/2018 16:00	46.67	46.8	46.31	46.46	73013981						-0.32%	-0.16%	-1.49%	SELL	SELL	SELL					
5/18/2018 16:00	46.05	46.19	45.94	46.07	59256660						0.82%	-0.14%	0.14%	BUY	SELL	BUY					
5/21/2018 16:00	46.45	46.54	46.16	46.35	59330191						0.14%	-1.12%	-0.08%	BUY	SELL	SELL					
5/22/2018 16:00	46.55	46.75	46.45	46.51	32584721						-0.27%	-1.99%	0.36%	SELL	SELL	BUY					
5/23/2018 16:00	45.96	46.53	45.95	46.49	70687825						-1.04%	-1.25%	0.45%	SELL	SELL	BUY					
5/24/2018 16:00	46.24	46.33	45.73	46.24	79762933				BUY		-0.89%	0.07%	0.74%	SELL	BUY	BUY					
5/25/2018 16:00	46.23	46.5	46.19	46.43	39374469				SELL		-1.82%	0.20%	0.27%	SELL	BUY	BUY					
5/29/2018 16:00	45.74	45.88	45.12	45.35	112089894				BUY		1.23%	3.18%	2.14%	BUY	BUY	BUY					
5/30/2018 16:00	45.36	45.76	45.16	45.71	72813832						1.23%	2.09%	1.06%	BUY	BUY	BUY					
5/31/2018 16:00	45.65	45.92	45.46	45.69	92066228						1.82%	2.06%	0.69%	BUY	BUY	BUY					
6/1/2018 16:00:	46.06	46.35	46	46.33	66762244						1.00%	0.06%	-1.29%	BUY	BUY	SELL					
6/4/2018 16:00:	46.72	46.91	46.7	46.8	36302897	BUY			SELL		-0.28%	-1.09%	-3.10%	SELL	SELL	SELL					
6/5/2018 16:00:	46.66	46.74	46.42	46.44	40092242						0.41%	-0.63%	-3.42%	BUY	SELL	SELL					
6/6/2018 16:00:	46.84	47.15	46.74	47.14	46801478						-1.65%	-2.63%	-5.65%	SELL	SELL	SELL					
6/7/2018 16:00:	46.97	47.02	46.13	46.42	89752533						-0.28%	-1.82%	-5.14%	SELL	SELL	SELL					
6/8/2018 16:00:	46.17	46.53	45.99	46.33	73944735						-0.40%	-2.51%	-5.36%	SELL	SELL	SELL					
6/11/2018 16:00	46.38	46.5	46.26	46.33	38323461						-0.93%	-3.73%	-5.67%	SELL	SELL	SELL					
6/12/2018 16:00	46.31	46.37	46.03	46.21	57189759						-1.38%	-4.30%	-5.93%	SELL	SELL	SELL					
6/13/2018 16:00	46.29	46.36	45.62	45.9	100698771						-1.60%	-4.53%	-5.92%	SELL	SELL	SELL					
6/14/2018 16:00	45.9	45.99	45.54	45.59	76094837				BUY		-2.16%	-3.87%	-5.95%	SELL	SELL	SELL					
6/15/2018 16:00	45.17	45.29	44.92	45.23	86065993						-2.23%	-3.66%	-5.20%	SELL	SELL	SELL					
6/18/2018 16:00	44.59	44.74	44.34	44.68	83532574						-1.92%	-2.71%	-4.18%	SELL	SELL	SELL					
6/19/2018 16:00	43.57	43.99	43.41	43.9	122657599						-0.17%	-2.19%	-2.14%	SELL	SELL	SELL					
6/20/2018 16:00	44.3	44.36	44.04	44.09	69822796	BUY		BUY			-1.17%	-3.09%	-2.48%	SELL	SELL	SELL					
6/21/2018 16:00	43.82	43.84	43.41	43.47	86214072						0.00%	-1.58%	-1.05%	BUY	SELL	SELL					
6/22/2018 16:00	44.1	44.12	43.77	43.92	55933128				BUY		-2.23%	-2.16%	-1.33%	SELL	SELL	SELL					
6/25/2018 16:00	43.51	43.56	42.9	43.33	110854478						-1.39%	-0.64%	0.69%	SELL	SELL	BUY					
6/26/2018 16:00	43.35	43.43	43.05	43.16	70229141						-0.87%	-0.64%	1.32%	SELL	SELL	BUY					
6/27/2018 16:00	43.1	43.11	42.2	42.33	95340377						1.52%	1.71%	3.55%	BUY	BUY	BUY					
6/28/2018 16:00	42.29	42.71	42.15	42.69	105345285				BUY		0.85%	1.83%	2.48%	BUY	BUY	BUY					
6/29/2018 16:00	43.24	43.45	43.2	43.33	108877043						-1.03%	1.31%	0.69%	SELL	BUY	BUY					
7/2/2018 16:00	42.62	42.97	42.53	42.9	78848728						0.36%	2.18%	2.10%	BUY	BUY	BUY					
7/3/2018 13:00	43.18	43.22	42.87	42.93	28637231						1.27%	1.82%	2.07%	BUY	BUY	BUY					
7/5/2018 16:00:	43.05	43.09	42.65	42.82	67394429						2.51%	1.90%	2.03%	BUY	BUY	BUY					
7/6/2018 16:00:	42.95	43.58	42.92	43.41	69933923				BUY		0.98%	0.81%	0.85%	BUY	BUY	BUY					
7/9/2018 16:00:	44.01	44.2	43.79	44.19	80552656	BUY			SELL		-1.08%	-0.89%	-1.08%	SELL	SELL	SELL					
7/10/2018 16:00	44.05	44.11	43.74	44.09	63808293						-1.04%	-0.64%	-0.61%	SELL	SELL	SELL					
7/11/2018 16:00	43.37	43.58	43.06	43.23	58679170						1.23%	1.13%	2.34%	BUY	BUY	BUY					
7/12/2018 16:00	43.76	43.92	43.6	43.82	53833345						-0.05%	-0.21%	1.29%	SELL	SELL	BUY					
7/13/2018 16:00	43.77	43.95	43.62	43.85	40516369						-0.10%	-0.44%	1.80%	SELL	SELL	BUY					
7/16/2018 16:00	43.64	43.7	43.45	43.61	31717263						0.24%	0.85%	2.54%	BUY	BUY	BUY					
7/17/2018 16:00	43.44	44.01	43.39	43.93	46911481						-0.46%	0.93%	1.70%	SELL	BUY	BUY					
7/18/2018 16:00	43.69	43.92	43.56	43.88	41182142						-0.51%	1.69%	1.77%	SELL	BUY	BUY					
7/19/2018 16:00	43.2	43.53	43.06	43.34	72549340						1.48%	3.25%	2.57%	BUY	BUY	BUY					
7/20/2018 16:00	43.77	44.04	43.74	43.96	75114612						0.86%	1.49%	0.89%	BUY	BUY	BUY					
7/23/2018 16:00	43.76	43.78	43.53	43.67	57679100						2.18%	2.41%	0.99%	BUY	BUY	BUY					
7/24/2018 16:00	44.39	44.57	44.18	44.31	66639430						0.99%	0.76%	-0.55%	BUY	BUY	SELL					
7/25/2018 16:00	44.6	45.06	44.48	45.03	77834618						-0.93%	-1.41%	-1.92%	SELL	SELL	SELL					
7/26/2018 16:00	44.65	44.78	44.5	44.53	68705938	BUY					0.43%	-0.79%	-0.86%	SELL	SELL	SELL					
7/27/2018 16:00	44.86	44.95	44.45	44.69	63744125						-0.10%	-1.58%	-1.60%	SELL	SELL	SELL					
7/30/2018 16:00	44.79	44.86	44.49	44.62	41541403						-0.50%	-1.09%	-2.48%	SELL	SELL	SELL					
7/31/2018 16:00	44.62	44.93	44.51	44.86	88217474						-1.52%	-1.58%	-3.85%	SELL	SELL	SELL					
8/1/2018 16:00:	44.47	44.69	44.34	44.46	61755049						-1.07%	-0.50%	-4.45%	SELL	SELL	SELL					
8/2/2018 16:00:	43.55	43.94	43.46	43.87	68678627	SELL					0.60%	-0.02%	-3.98%	BUY	SELL	SELL					
8/3/2018 16:00:	44.02	44.26	43.97	44.21	41043795						-0.14%	-2.13%	-4.87%	SELL	SELL	SELL					
8/6/2018 16:00:	43.89	44.02	43.77	43.87	33153764						0.84%	-2.43%	-4.33%	BUY	SELL	SELL					
8/7/2018 16:00:	44.38	44.55	44.3	44.32	38719539						-1.04%	-4.69%									

EEM	Start of Historical Data:	2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator	Stochastic RSI Indicator	MFI Indicator	MACD Indicator	Short Term	Mear	Medium	Term	Long Term	Best Long Term Mean	Best Short Term	Best Medium	Term	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term	
Date	Open	High	Low	Close	Volume																			
8/16/2018 16:00	41.92	42.11	41.75	41.77	78123949										1.79%	3.13%	4.66%	BUY	BUY	BUY				
8/17/2018 16:00	41.62	42.31	41.52	42.21	76030397										1.57%	2.61%	3.09%	BUY	BUY	BUY				
8/20/2018 16:00	42.31	42.44	42.17	42.4	50763065										1.26%	3.14%	1.74%	BUY	BUY	BUY				
8/21/2018 16:00	42.83	43.11	42.8	42.94	70462311										0.32%	2.41%	-0.93%	BUY	BUY	SELL				
8/22/2018 16:00	42.98	43.35	42.98	43.28	45602891	BUY									0.08%	0.80%	-2.39%	BUY	BUY	SELL				
8/23/2018 16:00	43.13	43.26	42.53	42.58	68878364										2.70%	1.94%	-1.74%	BUY	BUY	SELL				
8/24/2018 16:00	43.22	43.4	43.08	43.37	69304244										SELL	1.39%	-1.28%	-4.21%	BUY	SELL	SELL			
8/27/2018 16:00	43.77	44.16	43.76	43.99	96574756										-0.83%	3.80%	-5.84%	SELL	SELL	SELL				
8/28/2018 16:00	44.11	44.18	43.74	43.83	50093424										-0.97%	-4.32%	-5.68%	SELL	SELL	SELL				
8/29/2018 16:00	43.73	44.12	43.64	44.1	58165632	BUY									-2.91%	-5.50%	-6.00%	SELL	SELL	SELL				
8/30/2018 16:00	43.42	43.42	42.8	42.95	120206401	SELL									-1.27%	-3.41%	-3.01%	SELL	SELL	SELL				
8/31/2018 16:00	42.89	43.31	42.84	43.17	88660471										-2.86%	-4.32%	-3.30%	SELL	SELL	SELL				
9/4/2018 16:00	42.49	42.49	42.23	42.33	76724737										-1.54%	-2.50%	-1.06%	SELL	SELL	SELL				
9/5/2018 16:00	41.84	41.91	41.59	41.72	77835786										BUY	-0.57%	-0.39%	0.72%	SELL	SELL	BUY			
9/6/2018 16:00	41.8	41.91	41.48	41.76	73104428										-1.09%	0.10%	1.26%	SELL	BUY	BUY				
9/7/2018 16:00	41.63	41.94	41.39	41.55	61590666										-0.67%	0.71%	2.77%	SELL	BUY	BUY				
9/10/2018 16:00	41.54	41.54	41.09	41.14	61116599										1.01%	1.70%	4.25%	BUY	BUY	BUY				
9/11/2018 16:00	40.74	41.24	40.63	41.23	74608662										1.38%	1.96%	4.24%	BUY	BUY	BUY				
9/12/2018 16:00	41.04	41.69	40.89	41.44	116612699										0.98%	2.61%	3.69%	BUY	BUY	BUY				
9/13/2018 16:00	42.06	42.28	41.81	42	96306519										-0.38%	2.24%	2.30%	SELL	BUY	BUY				
9/14/2018 16:00	42.23	42.28	41.76	41.96	65202690										0.19%	2.48%	2.50%	BUY	BUY	BUY				
9/17/2018 16:00	41.65	41.81	41.52	41.58	74603909										2.27%	3.32%	3.45%	BUY	BUY	BUY				
9/18/2018 16:00	41.78	42.05	41.77	41.98	52000734										2.29%	2.15%	2.10%	BUY	BUY	BUY				
9/19/2018 16:00	42.33	42.61	42.32	42.56	55892416	BUY									SELL	1.03%	1.13%	0.02%	BUY	BUY	BUY			
9/20/2018 16:00	42.93	43.06	42.69	43.03	93427436										-0.16%	0.03%	-2.19%	SELL	BUY	SELL				
9/21/2018 16:00	43.09	43.3	43.03	43.23	102750671										-0.80%	-0.49%	-3.85%	SELL	SELL	SELL				
9/24/2018 16:00	42.73	42.79	42.59	42.74	54411652										0.70%	0.02%	-3.62%	BUY	BUY	SELL				
9/25/2018 16:00	42.81	43.01	42.76	42.91	49466978	BUY									0.31%	-1.06%	-4.75%	BUY	SELL	SELL				
9/26/2018 16:00	42.98	43.51	42.94	43	84080435										0.05%	-2.78%	-5.80%	BUY	SELL	SELL				
9/27/2018 16:00	43.13	43.35	43.09	43.21	45547496										-1.07%	-4.44%	-7.24%	SELL	SELL	SELL				
9/28/2018 16:00	42.89	43.15	42.78	42.92	64732793										-1.09%	-4.68%	-6.97%	SELL	SELL	SELL				
10/1/2018 16:00	43.13	43.16	42.83	42.93	31030819										-2.62%	-4.89%	-7.51%	SELL	SELL	SELL				
10/2/2018 16:00	42.37	42.6	42.26	42.39	57719665	SELL									-2.59%	-4.70%	-5.55%	SELL	SELL	SELL				
10/3/2018 16:00	42.69	42.72	41.92	42.04	76571167	SELL									-2.69%	-5.30%	-4.04%	SELL	SELL	SELL				
10/4/2018 16:00	41.61	41.62	40.81	40.99	132360948										BUY	-0.39%	-3.25%	-2.18%	SELL	SELL	SELL			
10/5/2018 16:00	41.01	41.08	40.46	40.84	80578922										-1.09%	-2.64%	-1.94%	SELL	SELL	SELL				
10/8/2018 16:00	40.56	40.99	40.48	40.9	59744390										-2.67%	-1.38%	-2.55%	SELL	SELL	SELL				
10/9/2018 16:00	40.57	40.96	40.43	40.75	60976845										-2.68%	-0.96%	-2.62%	SELL	SELL	SELL				
10/10/2018 16:00	40.54	40.55	39.53	39.54	99036681										0.56%	1.60%	-0.22%	BUY	BUY	SELL				
10/11/2018 16:00	39.32	39.74	38.77	39.14	168892376										3.06%	1.63%	0.45%	BUY	BUY	BUY				
10/12/2018 16:00	40.26	40.36	39.74	40.29	1168892132										0.17%	-1.49%	-3.31%	BUY	SELL	SELL				
10/15/2018 16:00	39.94	40.14	39.78	39.86	52651029										0.79%	-0.13%	-3.19%	BUY	SELL	SELL				
10/16/2018 16:00	40.36	40.9	40.29	40.86	65949781										-2.65%	-3.62%	-5.45%	SELL	SELL	SELL				
10/17/2018 16:00	40.55	40.58	40.16	40.36	69718741										-1.66%	-3.24%	-4.26%	SELL	SELL	SELL				
10/18/2018 16:00	39.93	39.96	39.16	39.3	107005060	BUY									1.30%	-1.47%	-0.47%	BUY	SELL	SELL				
10/19/2018 16:00	39.91	40.16	39.58	39.67	81176190										-0.73%	-2.71%	0.38%	SELL	SELL	BUY				
10/22/2018 16:00	40.34	40.42	39.92	40.1	67724893										-2.61%	-4.06%	0.67%	SELL	SELL	BUY				
10/23/2018 16:00	39.15	39.89	38.93	39.66	89864603										-2.36%	-2.59%	2.86%	SELL	SELL	BUY				
10/24/2018 16:00	39.46	39.51	38.36	38.38	87632516										0.56%	2.88%	6.98%	BUY	BUY	BUY				
10/25/2018 16:00	38.82	39.39	38.71	39.12	80961564										-1.66%	2.71%	4.79%	SELL	BUY	BUY				
10/26/2018 16:00	38.31	38.87	38.14	38.67	139198804										-0.09%	5.43%	5.28%	SELL	BUY	BUY				
10/29/2018 16:00	39.01	39.07	37.58	38	102322849										3.91%	7.55%	6.07%	BUY	BUY	BUY				
10/30/2018 16:00	38.23	38.75	38.15	38.74	99881479										3.72%	6.20%	2.79%	BUY	BUY	BUY				
10/31/2018 16:00	39.16	39.39	39	39.16	92768292										4.11%	4.73%	1.29%	BUY	BUY	BUY				
11/1/2018 16:00	39.78	40.59	39.56	40.56	120482247	BUY									0.76%	0.25%	-1.58%	BUY	BUY	SELL				
11/2/2018 16:00	41.25	41.4	40.41	40.82	111324677										0.78%	-2.34%	-1.19%	BUY	SELL	SELL				
11/5/2018 16:00	40.81	41.02	40.71	40.93	58320035										0.20%	-3.31%	-1.05%	BUY	SELL	SELL				
11/6/2018 16:00	40.73	40.93	40.64	40.86	40848033										-0.49%	-3.03%	-1.16%	SELL	SELL	SELL				
11/7/2018 16:00	41.41	41.7	41.15	41.63	81011462	BUY									-4.24%	-3.56%	-3.35%	SELL	SELL	SELL				
11/8/2018 16:00	41.09	41.23	40.42	40.55	90610903										-2.40%	0.00%	-1.49%	SELL	BUY	SELL				
11/9/2018 16:00	39.93	39.98	39.49	39.8	82943707	SELL									-0.45%	2.24%	0.29%	SELL	BUY	BUY				
11/12/2018 16:00	39.67	39.74	39.14	39.24	68569689										2									

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QQQ	Start of Historical Data:		2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator (Stk RSI Indicator	MFI Indicator	MACD Indicator	Short Term		Mear	Medium	Term	Mkt Long	Term Mean	Best Short Term	Best Medium	Term Best Long	Time Frame:	Short Term	Medium Term	Long Term
	Open	High	Low	Close	Volume					0.41%	0.06%	1.84%	SELL	BUY	BUY	Indicator Success Rate:							
2/1/2016 16:00	101.01	102.64	100.7	102.5	41766451					0.82%	1.83%	3.56%	BUY	BUY	BUY	EMA Crossover:	64.29%	67.86%	53.57%				
2/18/2016 16:00	102.81	102.84	101.2	101.33	38991469					0.83%	1.51%	4.03%	BUY	BUY	BUY	%D Indicator	51.16%	41.86%	41.86%				
2/19/2016 16:00	100.91	101.94	100.62	101.63	28257915					-0.69%	0.61%	2.19%	SELL	BUY	BUY	RSI Indicator	33.33%	33.33%	33.33%				
2/22/2016 16:00	102.54	103.38	102.48	103.28	23979113					1.58%	3.08%	3.48%	BUY	BUY	BUY	MFI Indicator	35.71%	35.71%	57.14%				
2/23/2016 16:00	102.67	102.96	101.51	101.58	29869660					0.60%	3.12%	2.31%	BUY	BUY	BUY	MACD Indicator	31.03%	39.66%	55.17%				
2/24/2016 16:00	100.44	102.68	99.77	102.55	40739103					0.33%	2.08%	1.06%	BUY	BUY	BUY	Mean/Single Indi	43.11%	43.68%	48.22%				
2/25/2016 16:00	102.76	103.56	101.84	103.56	29389315					1.23%	1.94%	1.55%	BUY	BUY	BUY	2 Indicators:	51.16%	48.84%	62.79%				
2/26/2016 16:00	104.28	104.37	103.18	103.43	30925045					3.17%	2.39%	3.08%	BUY	BUY	BUY								
2/29/2016 16:00	103.31	104.1	102.5	102.5	27553937					-0.08%	-1.07%	0.30%	SELL	SELL	BUY	Mean Potential Profits (%)							
3/1/2016 16:00	103.45	105.79	103.16	105.79	37699779					-0.37%	-1.22%	0.96%	SELL	SELL	BUY	EMA Crossover:	0.39%	0.31%	0.01%				
3/2/2016 16:00	105.63	105.85	105.01	105.83	29209756					-0.65%	-0.29%	1.39%	SELL	SELL	BUY	%D Indicator	0.00%	-0.23%	-0.43%				
3/3/2016 16:00	105.71	105.75	104.87	105.63	25474625					-0.95%	0.26%	1.52%	SELL	BUY	BUY	RSI Indicator	-0.26%	-0.34%	-0.14%				
3/4/2016 16:00	105.76	106.35	104.97	105.67	31655424					-0.45%	1.50%	2.42%	SELL	BUY	BUY	MFI Indicator	-0.26%	-0.34%	-0.14%				
3/7/2016 16:00	105.12	105.74	104.27	105.02	25861160					1.13%	2.70%	3.41%	BUY	BUY	BUY	MACD Indicator	-0.24%	-0.45%	0.07%				
3/8/2016 16:00	104.3	105.21	103.97	104.15	28898525					1.07%	2.31%	2.68%	BUY	BUY	BUY	Mean/Single Indi	-0.07%	-0.21%	-0.13%				
3/9/2016 16:00	104.57	104.84	103.96	104.82	31047351					1.85%	2.70%	2.81%	BUY	BUY	BUY	2 Indicators:	0.14%	0.08%	0.07%				
3/10/2016 16:00	105.31	105.86	103.31	104.66	44997649					0.44%	1.00%	0.88%	BUY	BUY	BUY								
3/11/2016 16:00	105.8	106.49	105.46	106.49	31453958					0.54%	1.02%	0.88%	BUY	BUY	BUY								
3/14/2016 16:00	106.08	106.92	106.06	106.67	25374912					0.81%	1.02%	1.42%	BUY	BUY	BUY								
3/15/2016 16:00	106.27	106.75	105.95	106.63	26524632					-0.02%	-0.04%	0.97%	SELL	SELL	BUY								
3/16/2016 16:00	106.37	107.86	106.34	107.58	31693050					0.22%	-0.30%	1.78%	BUY	SELL	BUY								
3/17/2016 16:00	107.26	107.77	106.87	107.52	8223173					0.32%	0.34%	2.18%	BUY	BUY	BUY								
3/18/2016 16:00	107.46	107.64	106.8	107.37	37682293					-0.24%	0.60%	1.67%	SELL	BUY	BUY								
3/21/2016 16:00	107.16	107.89	107.12	107.79	17288559					-0.85%	0.93%	1.70%	SELL	BUY	BUY								
3/22/2016 16:00	107.18	108.37	107.16	108.12	18840278					0.47%	2.25%	2.25%	BUY	BUY	BUY								
3/23/2016 16:00	107.91	107.99	106.99	107.23	20912873					1.09%	2.40%	2.00%	BUY	BUY	BUY								
3/24/2016 16:00	106.67	107.29	106.53	107.26	19017258					1.89%	2.44%	2.08%	BUY	BUY	BUY								
3/28/2016 16:00	107.56	107.58	106.92	107.11	13892303					0.74%	0.92%	0.20%	BUY	BUY	BUY								
3/29/2016 16:00	106.93	108.9	106.73	108.83	29963923					0.43%	0.17%	0.13%	BUY	BUY	BUY								
3/30/2016 16:00	109.48	110.04	109.13	109.36	23807235					0.48%	0.35%	0.72%	BUY	BUY	BUY								
3/31/2016 16:00	109.3	109.69	109.03	109.2	21447236					-0.48%	-1.33%	0.12%	SELL	SELL	BUY								
4/1/2016 16:00	108.58	110.4	108.39	110.36	26389045					-0.36%	-0.82%	0.90%	SELL	SELL	BUY								
4/4/2016 16:00	110.31	110.44	109.68	109.94	17162988					0.65%	0.73%	1.80%	BUY	BUY	BUY								
4/5/2016 16:00	109.08	109.5	108.74	108.88	20107915					-1.61%	-0.20%	0.09%	SELL	SELL	BUY								
4/6/2016 16:00	109	110.71	108.99	110.67	25056031					0.04%	1.60%	1.55%	SELL	SELL	BUY								
4/7/2016 16:00	110.04	110.23	108.61	109.08	28567202					0.62%	1.77%	1.11%	BUY	BUY	BUY								
4/8/2016 16:00	109.77	110.02	108.62	109	22897951		SELL			1.70%	2.03%	1.12%	BUY	BUY	BUY								
4/11/2016 16:00	109.48	110.02	108.59	108.6	25772058					1.20%	1.18%	-0.22%	BUY	BUY	SELL								
4/12/2016 16:00	108.66	109.72	108.02	109.51	28564087					0.02%	-0.27%	-2.18%	BUY	SELL	SELL								
4/13/2016 16:00	110.32	111.08	110.21	110.91	25356728					-0.10%	-0.75%	-2.79%	SELL	SELL	SELL								
4/14/2016 16:00	110	111.33	110	110.92	17199671					0.15%	-1.00%	-3.28%	SELL	SELL	SELL								
4/15/2016 16:00	110.83	111.06	110.36	110.64	21355343					-0.55%	-2.18%	-4.19%	SELL	SELL	SELL								
4/18/2016 16:00	110.33	111.27	110.25	111.23	17126086					-0.42%	-2.00%	-4.01%	SELL	SELL	SELL								
4/20/2016 16:00	110.54	111.15	110.17	110.64	18078307					-1.00%	-2.90%	-4.37%	SELL	SELL	SELL								
4/21/2016 16:00	110.58	111.05	110.15	110.65	20215983					-1.67%	-3.73%	-4.54%	SELL	SELL	SELL								
4/22/2016 16:00	109.21	109.72	108.12	108.98	39073996					-0.59%	-2.51%	-3.34%	SELL	SELL	SELL								
4/25/2016 16:00	108.62	108.99	108.45	108.96	14351890		SELL			-1.42%	-2.68%	-3.30%	SELL	SELL	SELL								
4/26/2016 16:00	109.2	109.39	108.12	108.45	19118334					-1.77%	-2.41%	-2.30%	SELL	SELL	SELL								
4/27/2016 16:00	107.34	107.83	106.69	107.58	33059790					-1.25%	-2.15%	-1.20%	SELL	SELL	SELL								
4/28/2016 16:00	107.69	108.33	106.07	106.28	29818155	SELL				-0.21%	-1.00%	0.08%	SELL	SELL	BUY								
4/29/2016 16:00	106.22	106.5	104.88	105.72	67502786					0.11%	-0.21%	0.52%	BUY	SELL	BUY								
5/2/2016 16:00	105.97	106.87	105.55	106.72	24813813					-1.36%	-0.43%	-0.54%	SELL	SELL	SELL								
5/3/2016 16:00	105.96	106.44	105.45	105.73	38569433					-0.49%	0.75%	0.18%	SELL	SELL	BUY								
5/4/2016 16:00	105.12	105.48	104.79	105.05	27474504					0.42%	1.41%	0.82%	BUY	BUY	BUY								
5/5/2016 16:00	105.43	105.66	104.81	105.02	20788119					1.18%	0.85%	0.81%	BUY	BUY	BUY								
5/6/2016 16:00	104.51	105.6	104.4	105.58	30758516					0.89%	0.46%	0.19%	BUY	BUY	BUY								
5/9/2016 16:00	105.61	106.37	105.54	105.88	19289615					0.61%	0.05%	0.11%	BUY	BUY	BUY								
5/10/2016 16:00	106.26	107.38	106.07	107.33	21178551					-1.32%	-1.19%	-0.64%	SELL	SELL	SELL								
5/11/2016 16:00	107.16	107.49	106.33	106.36	2096																		

QQQ	Start of Historical Data:	2/17/2016			5/35 EMA Cross %D Indicator (Stk RSI Indicator)			MFI Indicator	MACD Indicator	Short Term Mear			Medium Term	Mkt Long Term	Mean	Best Short Term	Best Medium Ter	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:	2/16/2019			Low	Close	Volume			0.65%	0.74%	0.33%	BUY	BUY	BUY							
Date	Open	High	Low	Close	Volume																	
5/26/2016 16:00	109.35	109.7	109.09	109.56	21885871						0.65%	0.74%	0.33%	BUY	BUY	BUY						
5/27/2016 16:00	109.65	110.14	109.61	110.13	19870010						0.27%	0.09%	-0.68%	BUY	BUY	SELL						
5/31/2016 16:00	110.28	110.51	109.78	110.34	24366106						-0.01%	0.00%	-1.40%	SELL	SELL	SELL						
6/1/2016 16:00	110	110.6	109.91	110.35	19571528						0.02%	-0.09%	-1.97%	BUY	SELL	SELL						
6/2/2016 16:00	110.13	110.59	109.53	110.58	15696618						-0.31%	-0.68%	-2.37%	SELL	SELL	SELL						
6/3/2016 16:00	110.37	110.42	109.34	110.06	20269923						0.25%	-0.91%	-2.26%	BUY	SELL	SELL						
6/6/2016 16:00	110.25	110.75	110.07	110.46	12502365						-0.19%	-1.93%	-2.81%	SELL	SELL	SELL						
6/7/2016 16:00	110.53	110.63	110.13	110.18	12184296						-0.31%	-2.05%	-2.62%	SELL	SELL	SELL						
6/8/2016 16:00	110.37	110.6	109.96	110.37	14568699						-1.19%	-2.21%	-2.97%	SELL	SELL	SELL						
6/9/2016 16:00	109.93	110.31	109.71	110.19	17571631						-1.68%	-2.52%	-2.29%	SELL	SELL	SELL						
6/10/2016 16:00	109.2	109.4	108.56	108.94	32965003						-0.93%	-1.57%	-1.83%	SELL	SELL	SELL						
6/13/2016 16:00	108.34	108.93	107.89	108.03	25412177					BUY	-0.09%	-0.91%	-2.22%	SELL	SELL	SELL						
6/14/2016 16:00	107.78	108.42	107.24	108.03	24588506	SELL					-0.57%	-0.68%	-2.86%	SELL	SELL	SELL						
6/15/2016 16:00	108.32	108.44	107.54	107.72	24605701						-0.45%	-0.11%	-3.16%	SELL	BUY	SELL						
6/16/2016 16:00	107.17	108.14	106.5	106.04	32079929	SELL					-0.92%	-1.18%	-2.69%	SELL	SELL	SELL						
6/17/2016 16:00	107.53	107.68	106.24	106.49	29208832						0.76%	-1.31%	0.10%	BUY	SELL	BUY						
6/20/2016 16:00	107.73	108.24	107.08	107.16	20562769						0.63%	-3.27%	0.17%	BUY	SELL	BUY						
6/21/2016 16:00	107.33	107.72	107.1	107.5	22804112						-0.68%	-2.95%	0.31%	SELL	SELL	BUY						
6/22/2016 16:00	107.58	108.19	107.15	107.24	22724174						-2.00%	-1.06%	0.81%	SELL	SELL	BUY						
6/23/2016 16:00	108.09	108.79	107.62	108.77	18714227						-4.70%	-1.34%	-0.10%	SELL	SELL	SELL						
6/24/2016 16:00	104.81	106.5	104.06	104.29	68012733	BUY					0.04%	3.25%	5.03%	BUY	BUY	BUY						
6/27/2016 16:00	103.6	103.6	101.75	102.22	50044303						3.80%	5.59%	7.94%	BUY	BUY	BUY						
6/28/2016 16:00	103.33	104.51	103.3	104.46	28260604						2.73%	3.50%	6.25%	BUY	BUY	BUY						
6/29/2016 16:00	105.26	106.53	105.23	106.31	31356723						1.29%	2.60%	4.79%	BUY	BUY	BUY						
6/30/2016 16:00	106.52	107.61	106.13	107.54	36300819						0.37%	2.24%	3.80%	BUY	BUY	BUY						
7/1/2016 16:00	107.49	108.48	107.45	108.08	19902803						0.03%	2.62%	3.52%	BUY	BUY	BUY						
7/5/2016 16:00	107.58	107.66	106.84	107.42	21167903				SELL		1.54%	3.53%	4.37%	BUY	BUY	BUY						
7/6/2016 16:00	106.92	108.35	106.57	108.3	24579270	BUY					1.52%	3.01%	3.86%	BUY	BUY	BUY						
7/7/2016 16:00	108.39	108.86	108.11	108.62	19161748	BUY					2.11%	2.80%	3.87%	BUY	BUY	BUY						
7/8/2016 16:00	109.17	110.36	109.02	110.3	29457871						0.83%	1.64%	2.54%	BUY	BUY	BUY						
7/11/2016 16:00	110.68	111.34	110.66	110.93	20218504						0.57%	1.11%	2.30%	BUY	BUY	BUY						
7/12/2016 16:00	111.59	111.79	111.34	111.49	21906145						0.16%	1.09%	1.87%	BUY	BUY	BUY						
7/13/2016 16:00	111.79	111.82	111.21	111.22	21107762						0.80%	1.53%	2.43%	BUY	BUY	BUY						
7/14/2016 16:00	111.96	112.19	111.7	111.98	20870986						0.16%	1.29%	2.03%	BUY	BUY	BUY						
7/15/2016 16:00	112.22	112.3	111.55	111.8	17999312						0.81%	1.52%	2.54%	BUY	BUY	BUY						
7/18/2016 16:00	111.86	112.74	111.85	112.54	20713924						0.33%	1.03%	2.33%	BUY	BUY	BUY						
7/19/2016 16:00	112.17	112.48	111.93	112.13	18936702			SELL			1.15%	1.68%	2.78%	BUY	BUY	BUY						
7/20/2016 16:00	112.75	113.65	112.6	113.44	24997929						0.05%	0.89%	1.68%	BUY	BUY	BUY						
7/21/2016 16:00	113.52	113.74	112.87	113.18	18885367						0.46%	1.55%	2.01%	BUY	BUY	BUY						
7/22/2016 16:00	113.28	113.78	112.91	113.65	20003363						0.32%	1.50%	1.79%	BUY	BUY	BUY						
7/25/2016 16:00	113.56	113.69	113.28	113.66	12968085						0.70%	1.48%	2.16%	BUY	BUY	BUY						
7/26/2016 16:00	113.63	114.2	113.22	113.79	21223845						1.00%	1.40%	2.39%	BUY	BUY	BUY						
7/27/2016 16:00	114.76	114.88	114.1	114.58	27646113						0.67%	0.65%	1.89%	BUY	BUY	BUY						
7/28/2016 16:00	114.76	115.11	114.4	114.98	16939662						0.32%	0.83%	1.61%	BUY	BUY	BUY						
7/29/2016 16:00	115.24	115.54	114.87	115.23	22385320						0.13%	0.99%	1.51%	BUY	BUY	BUY						
8/1/2016 16:00	115.31	118.78	115.17	115.84	13990077						-0.45%	0.81%	1.14%	SELL	BUY	BUY						
8/2/2016 16:00	115.68	115.77	114.22	114.96	21278383						0.84%	1.54%	2.01%	BUY	BUY	BUY						
8/3/2016 16:00	114.88	115.35	114.8	115.34	15011273						0.89%	1.34%	1.70%	BUY	BUY	BUY						
8/4/2016 16:00	115.32	115.78	115.03	115.67	12835296						0.96%	1.13%	1.43%	BUY	BUY	BUY						
8/5/2016 16:00	116.28	117.04	116.13	116.78	23196570						-0.04%	0.48%	0.37%	SELL	BUY	BUY						
8/8/2016 16:00	116.82	116.87	116.28	116.65	12355181	SELL					0.20%	0.57%	0.55%	BUY	BUY	BUY						
8/9/2016 16:00	116.73	117.29	116.67	116.92	13276458			SELL			0.05%	0.36%	0.38%	BUY	BUY	BUY						
8/10/2016 16:00	116.96	117.02	116.31	116.62	14688405			SELL			0.62%	0.50%	0.53%	BUY	BUY	BUY						
8/11/2016 16:00	117.01	117.37	116.78	117.12	12969799			SELL			0.17%	0.13%	-0.03%	BUY	BUY	SELL						
8/12/2016 16:00	116.91	117.21	116.79	117.2	19379036			SELL			0.12%	0.09%	-0.22%	BUY	BUY	SELL						
8/15/2016 16:00	117.33	117.97	117.31	117.7	11777762			SELL			-0.42%	-0.26%	-0.78%	SELL	SELL	SELL						
8/16/2016 16:00	117.47	117.49	117.03	117.05	14161446			BUY			0.19%	0.16%	-0.28%	BUY	BUY	SELL						
8/17/2016 16:00	117.08	117.3	116.43	117.26	15980334						0.03%	-0.23%	-0.49%	BUY	SELL	SELL						
8/18/2016 16:00	117.15	117.46	116.95	117.29	10036285						0.09%	-0.48%	-0.53%	BUY	SELL	SELL						
8/19/2016 16:00	117.1	117.52	116.76	117.26	18742961						-0.02%	-0.41%	-0.46%	SELL	SELL	SELL						
8/22/2016 16:00	117.09	117.55																				

QQQ	Start of Historical Data:	2/17/2016			5/35 EMA Cross %D Indicator (Stk RSI Indicator)			MFI Indicator	MACD Indicator	Short Term Mear			Medium Term	Mkt Long Term	Mean	Best Short Term	Best Medium Ter	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:	2/16/2019			Low	Close	Volume															
Date	Open	High	Low	Close	Volume																	
9/6/2016 16:00: 117.29	117.29	117.85	117.06	117.85	18525231		BUY			-1.17%	-1.72%	-0.57%	SELL	SELL	SELL							
9/7/2016 16:00: 117.95	117.95	118.12	117.47	117.92	17546872					-1.67%	-1.41%	-0.52%	SELL	SELL	SELL							
9/8/2016 16:00: 117.57	117.57	117.6	116.92	117.23	20125319					-1.65%	-0.26%	0.45%	SELL	SELL	BUY							
9/9/2016 16:00: 116.23	116.23	116.51	114.26	114.28	50813287					1.35%	2.59%	3.38%	BUY	BUY	BUY							
9/12/2016 16:00: 113.64	113.64	116.49	113.63	116.33	39645960					-0.06%	0.60%	1.63%	SELL	BUY	BUY							
9/13/2016 16:00: 115.73	115.73	116.09	114.73	115.29	45863935					1.42%	1.75%	2.62%	BUY	BUY	BUY							
9/14/2016 16:00: 115.43	115.43	116.47	115.38	115.84	28221762					1.21%	1.93%	2.05%	BUY	BUY	BUY							
9/15/2016 16:00: 115.89	115.89	117.82	115.86	117.64	39466531					-0.52%	0.75%	0.39%	SELL	BUY	BUY							
9/16/2016 16:00: 117.22	117.22	117.41	116.71	117.29	2759527					0.02%	0.82%	0.98%	BUY	BUY	BUY							
9/19/2016 16:00: 117.57	117.57	117.95	116.55	116.78	16222870					1.11%	1.09%	1.43%	BUY	BUY	BUY							
9/20/2016 16:00: 117.19	117.19	117.48	116.8	117	18078584					1.30%	1.01%	1.17%	BUY	BUY	BUY							
9/21/2016 16:00: 117.48	117.48	118.32	116.81	118.15	31546776					0.09%	0.17%	0.39%	BUY	BUY	BUY							
9/22/2016 16:00: 118.85	118.85	119.22	118.72	119.09	22614422			SELL		-0.87%	-0.56%	-0.40%	SELL	SELL	SELL							
9/23/2016 16:00: 118.92	118.92	119	118.16	118.33	22213394					-0.13%	0.03%	0.22%	SELL	BUY	BUY							
9/26/2016 16:00: 117.66	117.66	117.8	117.17	117.34	16403881					0.86%	1.03%	1.25%	BUY	BUY	BUY							
9/27/2016 16:00: 117.31	117.31	118.56	117.15	118.5	20238432					-0.07%	0.06%	-0.01%	SELL	BUY	SELL							
9/28/2016 16:00: 118.62	118.62	118.77	118.09	118.7	14794330					-0.28%	-0.06%	-0.46%	SELL	SELL	SELL							
9/29/2016 16:00: 118.51	118.51	118.72	117.33	117.84	27207499					0.60%	0.70%	-0.04%	BUY	BUY	SELL							
9/30/2016 16:00: 118.15	118.15	119.07	118.03	118.72	25543200					-0.13%	0.07%	-1.22%	SELL	BUY	SELL							
10/3/2016 16:00: 118.53	118.53	118.7	118.09	118.55	19216438					0.07%	-0.12%	-1.23%	BUY	SELL	SELL							
10/4/2016 16:00: 118.86	118.86	119.16	117.92	118.37	21239742					0.25%	-0.27%	-0.98%	BUY	SELL	SELL							
10/5/2016 16:00: 118.7	118.7	119.17	118.67	118.79	14481285					0.01%	-1.24%	-1.16%	BUY	SELL	SELL							
10/6/2016 16:00: 118.63	118.63	118.98	118.15	118.73	11987056					-0.28%	-1.30%	-0.99%	SELL	SELL	SELL							
10/7/2016 16:00: 118.86	118.86	119.01	117.89	118.47	19984158			BUY		-0.35%	-1.25%	-0.49%	SELL	SELL	SELL							
10/10/2016 16:00: 119.06	119.06	119.48	119.03	119.22	19687341			SELL		-1.60%	-1.63%	-0.75%	SELL	SELL	SELL							
10/11/2016 16:00: 119.1	119.14	117	117.52	27774426	SELL			BUY		-0.28%	-0.01%	0.97%	SELL	SELL	BUY							
10/12/2016 16:00: 117.58	117.58	117.82	117.06	117.42	14267824					-0.37%	0.33%	1.19%	SELL	BUY	BUY							
10/13/2016 16:00: 116.64	116.64	117.32	115.94	117	22821011					0.23%	0.77%	1.49%	BUY	BUY	BUY							
10/14/2016 16:00: 117.58	117.58	118.05	117.07	117.14	21313321					0.32%	1.14%	0.84%	BUY	BUY	BUY							
10/17/2016 16:00: 117.1	117.1	117.3	116.67	116.82	1418269	SELL					0.84%	1.84%	0.65%	BUY	BUY	BUY						
10/18/2016 16:00: 118.18	118.18	118.41	117.8	117.86	19276656	BUY					0.04%	1.01%	-0.72%	BUY	BUY	SELL						
10/19/2016 16:00: 117.77	117.77	118.02	117.64	117.85	13702918					0.53%	0.53%	-1.28%	BUY	BUY	SELL							
10/20/2016 16:00: 117.68	117.68	117.97	117.03	117.71	18132245					1.07%	0.05%	-1.81%	BUY	BUY	SELL							
10/21/2016 16:00: 117.8	117.8	118.22	117.41	118.15	15707804	BUY					0.76%	-0.71%	-2.88%	BUY	SELL	SELL						
10/24/2016 16:00: 118.93	118.93	119.65	118.89	119.57	19142985					SELL		-0.92%	-2.37%	-3.98%	SELL	SELL	SELL					
10/25/2016 16:00: 119.62	119.62	119.66	119.01	119.19	20341835						-1.19%	-2.60%	-3.27%	SELL	SELL	SELL						
10/26/2016 16:00: 118.41	118.41	119.03	118.03	118.38	20463696						-0.90%	-2.76%	-1.85%	SELL	SELL	SELL						
10/27/2016 16:00: 118.9	118.9	118.99	117.67	117.84	19099790						-0.94%	-3.01%	-0.95%	SELL	SELL	SELL						
10/28/2016 16:00: 117.47	117.47	118.11	116.74	117.1	35369254			BUY			-0.86%	-2.06%	-0.45%	SELL	SELL	SELL						
10/31/2016 16:00: 117.53	117.53	116.93	116.99	116.99	18749357	SELL					-1.60%	-1.10%	-0.88%	SELL	SELL	SELL						
11/1/2016 16:00: 117.19	117.19	117.21	115.1	116.11	23498712						-1.56%	0.80%	-0.44%	SELL	BUY	SELL						
11/2/2016 16:00: 116.05	116.05	116.3	114.89	115.18	26960093						-0.43%	1.44%	0.62%	BUY	BUY	BUY						
11/3/2016 16:00: 115.02	115.02	115.37	113.92	114.05	36205193						1.45%	2.06%	2.04%	BUY	BUY	BUY						
11/4/2016 16:00: 113.72	113.72	114.54	113.45	113.65	26997454						2.98%	1.53%	2.99%	BUY	BUY	BUY						
11/7/2016 16:00: 115.45	115.45	116.47	115.3	116.35	26591245						0.42%	-0.89%	1.10%	BUY	SELL	BUY						
11/8/2016 16:00: 116.21	116.21	117.64	115.96	117.11	20777919	BUY		BUY			-0.61%	-1.02%	0.87%	SELL	SELL	BUY						
11/9/2016 16:00: 115.71	115.71	117.84	115.6	117.65	70234393	BUY					-1.92%	-0.58%	0.55%	SELL	SELL	BUY						
11/10/2016 16:00: 118.14	118.14	118.38	114.2	115.75	72825446						-0.17%	1.37%	2.52%	SELL	BUY	BUY						
11/11/2016 16:00: 115.21	115.21	116.05	114.84	115.8	41115166						0.10%	1.79%	2.47%	BUY	BUY	BUY						
11/14/2016 16:00: 115.84	115.84	115.94	114.03	114.63	35905979						2.04%	3.16%	3.53%	BUY	BUY	BUY						
11/15/2016 16:00: 115.47	115.47	116.62	115.33	116.22	31796602						0.96%	2.07%	1.91%	BUY	BUY	BUY						
11/16/2016 16:00: 115.7	115.7	116.99	115.67	116.91	16538132						0.82%	1.54%	0.60%	BUY	BUY	BUY						
11/17/2016 16:00: 116.86	116.86	117.78	116.61	117.76	20598553						0.42%	0.70%	-0.73%	BUY	SELL	SELL						
11/18/2016 16:00: 117.83	117.83	118.1	117.21	117.32	16426659	BUY					1.11%	1.22%	-0.85%	BUY	BUY	SELL						
11/21/2016 16:00: 117.6	117.6	118.65	117.57	118.54	20268547						0.14%	-0.18%	-2.01%	BUY	SELL	SELL						
11/22/2016 16:00: 118.97	118.97	119.19	118.61	118.9	18850641						-0.27%	-1.34%	-1.69%	SELL	SELL	SELL						
11/23/2016 16:00: 118.51	118.51	118.64	117.9	118.42	22925954						0.28%	-1.85%	-0.69%	BUY	SELL	SELL						
11/25/2016 16:00: 118.56	118.56	118.85	118.42																			

QQQ	Start of Historical Data:	2/17/2016			5/35 EMA Cross %D Indicator (Stk RSI Indicator)			MFI Indicator	MACD Indicator	Short Term			Mear	Medium	Term	Long	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:	2/16/2019			Low	Close	Volume													
Date	Open	High																		
12/14/2016 16:0	120.56	121	119.86	120.21	28745991						-0.15%	0.14%	-0.05%	SELL	BUY	SELL				
12/15/2016 16:0	120.37	121.11	120.08	120.4	22762305						-0.27%	-0.12%	-0.56%	SELL	SELL	SELL				
12/16/2016 16:0	120.28	120.58	119.36	119.6	26283907						0.64%	0.65%	-0.17%	BUY	BUY	SELL				
12/19/2016 16:0	119.74	120.83	119.55	120.09	21138658						0.24%	0.17%	-0.51%	BUY	BUY	SELL				
12/20/2016 16:0	120.43	120.77	120.33	120.55	11461799						-0.24%	-0.34%	-0.65%	SELL	SELL	SELL				
12/21/2016 16:0	120.57	120.68	120.19	120.46	7079300						-0.07%	-0.92%	0.14%	SELL	SELL	BUY				
12/22/2016 16:0	120.46	120.5	119.65	120.12	16644996						0.15%	-0.73%	1.01%	BUY	SELL	BUY				
12/23/2016 16:0	119.96	120.25	119.81	120.2	9007470						-0.05%	-0.68%	1.44%	SELL	SELL	BUY				
12/27/2016 16:0	120.44	121.52	120.41	120.82	16110554						-1.21%	-0.51%	1.35%	SELL	SELL	BUY				
12/28/2016 16:0	121.06	121.19	119.8	119.88	17975235						-0.53%	0.93%	2.31%	BUY	BUY	BUY				
12/29/2016 16:0	119.86	120.13	119.33	119.71	13267519						-0.26%	1.67%	2.63%	SELL	BUY	BUY				
12/30/2016 16:0	119.93	119.95	118.14	118.48	41749028	SELL					1.45%	3.21%	3.73%	BUY	BUY	BUY				
1/3/2017 16:00	119.31	119.99	118.89	119.54	22307608						1.22%	2.58%	2.84%	BUY	BUY	BUY				
1/4/2017 16:00	119.67	120.41	119.66	120.19	19749074						1.26%	2.14%	2.33%	BUY	BUY	BUY				
1/5/2017 16:00	120.16	120.95	120.1	120.87	20644254						1.17%	1.72%	1.77%	BUY	BUY	BUY				
1/6/2017 16:00	120.99	122.25	120.69	121.93	24074305						0.57%	0.79%	1.00%	BUY	BUY	BUY				
1/9/2017 16:00	122.03	122.55	121.95	122.33	18909234						0.35%	0.54%	0.91%	BUY	BUY	BUY				
1/10/2017 16:00	122.37	122.97	122.1	122.6	16176631						0.28%	0.27%	1.18%	BUY	BUY	BUY				
1/11/2017 16:00	122.63	122.93	122.02	122.93	20685983						-0.03%	0.13%	1.38%	SELL	BUY	BUY				
1/12/2017 16:00	122.49	122.82	121.6	122.74	19622511						0.21%	0.37%	2.04%	BUY	BUY	BUY				
1/13/2017 16:00	122.81	122.37	122.8	123.16	16930803						-0.18%	0.35%	1.82%	SELL	BUY	BUY				
1/17/2017 16:00	122.79	123.03	122.43	122.79	14538484						0.24%	1.25%	1.95%	BUY	BUY	BUY				
1/18/2017 16:00	122.96	123.16	122.66	123.04	12499663						0.12%	1.64%	1.72%	BUY	BUY	BUY				
1/19/2017 16:00	123.19	123.65	122.72	122.98	12710659						0.50%	2.13%	1.67%	BUY	BUY	BUY				
1/20/2017 16:00	123.51	123.83	122.92	123.25	22091039						0.87%	1.74%	1.62%	BUY	BUY	BUY				
1/23/2017 16:00	123.16	123.53	122.57	123.35	17434167						1.38%	1.39%	1.80%	BUY	BUY	BUY				
1/24/2017 16:00	123.59	124.37	123.38	124.18	17640869						1.14%	0.61%	1.29%	BUY	BUY	BUY				
1/25/2017 16:00	124.94	125.46	124.85	125.43	15036221						-0.03%	-0.26%	0.51%	SELL	SELL	BUY				
1/26/2017 16:00	125.59	125.82	125.34	125.56	16052150						-0.40%	-0.07%	0.67%	SELL	SELL	BUY				
1/27/2017 16:00	125.8	125.92	125.39	125.8	15052983						-0.68%	-0.15%	0.78%	SELL	SELL	BUY				
1/30/2017 16:00	125.37	125.38	124.13	124.82	25006715						0.23%	0.89%	1.93%	BUY	BUY	BUY				
1/31/2017 16:00	124.4	124.6	123.85	124.57	19091133						0.73%	1.31%	2.55%	BUY	BUY	BUY				
2/1/2017 16:00	125.42	125.68	124.86	125.43	22861876						0.14%	0.92%	2.31%	BUY	BUY	BUY				
2/2/2017 16:00	125.21	125.7	124.86	125.32	15101363	SELL					0.49%	1.30%	2.77%	BUY	BUY	BUY				
2/3/2017 16:00	125.49	125.81	125.33	125.68	16957154						0.42%	1.43%	2.82%	BUY	BUY	BUY				
2/6/2017 16:00	125.42	125.85	125.35	125.83	11630139						0.60%	1.73%	3.08%	BUY	BUY	BUY				
2/7/2017 16:00	126.06	126.55	125.97	126.29	17541101						0.52%	1.86%	2.94%	BUY	BUY	BUY				
2/8/2017 16:00	126.12	126.68	125.88	126.5	12569147						0.77%	1.99%	2.92%	BUY	BUY	BUY				
2/9/2017 16:00	126.63	127.24	126.56	126.96	17542726						0.82%	1.96%	2.63%	BUY	BUY	BUY				
2/10/2017 16:00	127.2	127.56	127.02	127.38	13915697						0.99%	1.93%	2.29%	BUY	BUY	BUY				
2/13/2017 16:00	127.76	128.26	127.72	128.1	19120150						0.72%	1.68%	1.62%	BUY	BUY	BUY				
2/14/2017 16:00	128.15	128.54	127.74	128.53	16333480						0.72%	1.39%	1.56%	BUY	BUY	BUY				
2/15/2017 16:00	128.44	129.35	128.37	129.29	17891355						0.42%	0.75%	1.06%	BUY	BUY	BUY				
2/16/2017 16:00	129.36	129.63	128.92	129.25	15098286						0.78%	0.76%	1.21%	BUY	BUY	BUY				
2/17/2017 16:00	129.09	129.62	129.04	129.81	15563730						0.39%	0.33%	0.91%	BUY	BUY	BUY				
2/21/2017 16:00	130.03	130.53	129.99	130.45	18479628						-0.15%	0.14%	0.24%	SELL	BUY	BUY				
2/22/2017 16:00	130.32	130.59	130.11	130.5	12110876						-0.21%	0.19%	0.19%	SELL	BUY	BUY				
2/23/2017 16:00	130.7	130.7	129.49	130.01	17489023						0.17%	0.82%	0.53%	BUY	BUY	BUY				
2/24/2017 16:00	129.47	130.26	129.38	130.26	18624489						0.28%	0.45%	0.47%	BUY	BUY	BUY				
2/27/2017 16:00	130.02	130.43	129.8	130.42	12008672						0.25%	0.26%	0.56%	BUY	BUY	BUY				
2/28/2017 16:00	130.39	130.45	129.66	130.02	16598581						0.82%	0.49%	0.97%	BUY	BUY	BUY				
3/1/2017 16:00	130.81	131.68	130.6	131.44	25813827						-0.45%	-0.57%	0.12%	SELL	SELL	BUY				
3/2/2017 16:00	131.43	131.43	130.62	130.78	19951386						-0.02%	0.16%	0.74%	SELL	BUY	BUY				
3/3/2017 16:00	130.65	131.06	130.34	131.02	13722749						-0.27%	0.20%	0.57%	SELL	BUY	BUY				
3/6/2017 16:00	130.56	130.95	130.21	130.73	12026151						-0.03%	0.54%	0.90%	SELL	BUY	BUY				
3/7/2017 16:00	130.45	131.08	130.28	130.51	15500945						0.37%	0.89%	0.63%	BUY	BUY	BUY				
3/8/2017 16:00	130.57	131.15	130.46	130.74	15776027						0.41%	0.81%	0.20%	BUY	BUY	BUY				
3/9/2017 16:00	130.71	131.02	130.14	130.84	20855253	SELL					0.45%	0.84%	-0.13%	BUY	BUY	SELL				
3/10/2017 16:00	131.42	131.6	130.82	131.39	21922601						0.21%	0.34%	-0.77%	BUY	BUY	SELL				
3/13/2017 16:00	131.52	131.64	131.27	131.61	10731575						0.14%	-0.38%	-0.74%	BUY	SELL	SELL				
3/14/2017 16:00	131.31	131.36	130.76	131.29	14019689						0.49%	-0.40%	-0.32%	BUY	SELL	SELL				
3/15/2017 16:00	131.58	132.41	131.14	132.1	22709139						-0.20%	-1.37%	-0.58%	SELL	SELL	SELL				
3/16/2017 16:00	132.33	132.35	131.71	132.01	18457291						-0.69%	-1.10%	-0.16%	SELL	SELL	SELL				
3/17/2017 16:00	131.86	132.04	131.62	131.69	21234529						-0.70%	-0.82%	0.38%	SELL	SELL	BUY				
3/20/2017																				

QQQ	Start of Historical Data:	2/17/2016		2/16/2019		5/35 EMA Cross %D Indicator	Stochastic RSI Indicator	MFI Indicator	MACD Indicator	Short Term	Mear	Medium	Term	Long Term	Best Short Term	Best Medium	Term	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
Date	Open	High	Low	Close	Volume																	
3/28/2017 16:00	130.81	132.03	130.55	131.64	23721947					0.55%	0.47%	0.17%	BUY	BUY	BUY							
3/29/2017 16:00	131.73	132.3	131.59	132.25	13709968					0.10%	-0.06%	-0.50%	BUY	SELL	SELL							
3/30/2017 16:00	132.22	132.61	132.08	132.47	16092374					-0.06%	-0.36%	-0.96%	SELL	SELL	SELL							
3/31/2017 16:00	132.27	132.74	132.13	132.38	19841411					-0.09%	-0.28%	-1.00%	SELL	SELL	SELL							
4/3/2017 16:00	132.48	132.81	131.56	132.3	23700310					-0.10%	-0.37%	-0.97%	SELL	SELL	SELL							
4/4/2017 16:00	131.9	132.53	131.87	132.51	13400022					-0.39%	-0.79%	-1.02%	SELL	SELL	SELL							
4/5/2017 16:00	132.68	133.48	131.72	131.97	32011155					0.03%	-0.79%	-0.20%	BUY	SELL	SELL							
4/6/2017 16:00	132.12	132.39	131.7	132.04	18832193					-0.17%	-0.84%	-0.05%	SELL	SELL	SELL							
4/7/2017 16:00	131.99	132.37	131.5	131.97	16743064					-0.38%	-0.69%	0.55%	SELL	SELL	BUY							
4/10/2017 16:00	132.11	132.57	131.66	132.02	15619276					-0.83%	-0.46%	1.20%	SELL	SELL	BUY							
4/11/2017 16:00	131.86	132.1	130.5	131.45	33778359	SELL					-0.39%	0.26%	2.09%	SELL	BUY	BUY						
4/12/2017 16:00	131.45	131.54	130.78	130.92	15955195						0.10%	0.99%	3.11%	BUY	BUY	BUY						
4/13/2017 16:00	130.75	131.51	130.38	130.4	23683020					0.78%	2.07%	3.87%	BUY	BUY	BUY							
4/17/2017 16:00	130.8	131.5	130.72	131.48	13325508					0.23%	1.88%	3.41%	BUY	BUY	BUY							
4/18/2017 16:00	131.01	131.66	130.95	131.28	12841067					0.71%	2.64%	4.05%	BUY	BUY	BUY							
4/19/2017 16:00	131.85	132.29	131.31	131.49	17764817					1.23%	2.88%	4.12%	BUY	BUY	BUY							
4/20/2017 16:00	132.04	132.88	131.82	132.59	21977910					1.03%	2.24%	3.45%	BUY	BUY	BUY							
4/21/2017 16:00	132.7	132.76	132.22	132.56	22454948					1.65%	2.83%	3.54%	BUY	BUY	BUY							
4/24/2017 16:00	134.02	134.29	133.8	134.16	22469948					0.83%	2.02%	2.38%	BUY	BUY	BUY							
4/25/2017 16:00	134.58	135.37	134.48	135.13	19384398					0.32%	1.54%	1.89%	BUY	BUY	BUY							
4/26/2017 16:00	135.17	135.51	134.86	134.94	25398542					1.02%	1.64%	2.29%	BUY	BUY	BUY							
4/27/2017 16:00	135.28	135.75	135.19	135.75	16136538					0.83%	1.06%	1.81%	BUY	BUY	BUY							
4/28/2017 16:00	136.28	136.34	135.77	135.99	22771946					0.89%	1.09%	1.77%	BUY	BUY	BUY							
5/1/2017 16:00	136.46	137.38	136.38	137.2	24815525					-0.03%	0.51%	1.01%	SELL	BUY	BUY							
5/2/2017 16:00	137.38	137.49	137.02	137.43	18345071					-0.17%	0.55%	1.06%	SELL	BUY	BUY							
5/3/2017 16:00	137.14	137.17	136.62	136.99	23827550					0.35%	0.98%	0.98%	BUY	BUY	BUY							
5/4/2017 16:00	137.01	137.43	136.56	137.04	14630063					0.63%	1.01%	0.70%	BUY	BUY	BUY							
5/5/2017 16:00	137.39	137.54	136.88	137.54	19330652					0.47%	0.80%	0.11%	BUY	BUY	BUY							
5/8/2017 16:00	137.61	137.84	137.33	137.84	13279931					0.36%	0.90%	-0.22%	BUY	BUY	SELL							
5/9/2017 16:00	138.05	138.63	137.93	138.32	28426109					0.08%	-0.06%	-0.01%	BUY	SELL	SELL							
5/10/2017 16:00	138.4	138.45	137.91	138.4	20498363					0.18%	-0.54%	0.39%	BUY	SELL	BUY							
5/11/2017 16:00	138.03	138.33	137.38	138.29	27232074					0.58%	-0.89%	1.04%	BUY	SELL	BUY							
5/12/2017 16:00	138.37	138.63	138.23	138.6	19738629					-0.26%	-0.41%	1.21%	SELL	SELL	BUY							
5/15/2017 16:00	138.63	139.12	138.53	139.04	20481327					-1.00%	-0.27%	1.29%	SELL	SELL	BUY							
5/16/2017 16:00	139.36	139.64	138.99	139.62	21785994					-1.84%	-0.22%	1.14%	SELL	SELL	BUY							
5/17/2017 16:00	138.55	138.77	136.05	136.07	55642178					1.44%	2.86%	3.93%	BUY	BUY	BUY							
5/18/2017 16:00	136.06	137.72	135.87	137.26	41319882					1.02%	2.47%	3.44%	BUY	BUY	BUY							
5/19/2017 16:00	137.71	138.42	137.66	137.84	36730112	SELL				1.06%	2.42%	3.38%	BUY	BUY	BUY							
5/22/2017 16:00	138.14	139.07	138.1	139	19509659					0.69%	1.64%	2.80%	BUY	BUY	BUY							
5/23/2017 16:00	139.42	139.42	138.78	139.14	19687534					1.09%	1.69%	2.98%	BUY	BUY	BUY							
5/24/2017 16:00	139.56	139.85	139.17	139.78	18323864					1.00%	1.73%	2.53%	BUY	BUY	BUY							
5/25/2017 16:00	140.32	141.33	140.01	140.97	23928591					0.22%	1.38%	1.06%	BUY	BUY	BUY							
5/26/2017 16:00	141	141.28	140.81	141.22	13851582					0.19%	1.44%	0.23%	BUY	BUY	BUY							
5/30/2017 16:00	141.13	141.51	141.06	141.34	20306409					0.61%	1.34%	-0.39%	BUY	SELL	SELL							
5/31/2017 16:00	141.8	141.84	140.57	141.29	33223404					1.15%	1.41%	-1.03%	BUY	SELL	SELL							
6/1/2017 16:00	141.57	141.9	140.98	141.84	20120741					0.99%	0.34%	-1.57%	BUY	SELL	SELL							
6/2/2017 16:00	142.34	143.49	142.11	143.46	37222881					-0.16%	-1.77%	-2.87%	SELL	SELL	SELL							
6/5/2017 16:00	143.44	143.68	143.23	143.43	15727526					-0.10%	-2.49%	-2.83%	SELL	SELL	SELL							
6/6/2017 16:00	143.28	143.73	142.65	142.86	22393024					-0.38%	-2.16%	-2.51%	SELL	SELL	SELL							
6/7/2017 16:00	143.23	143.54	142.6	143.42	18842408					-1.74%	-2.56%	-2.61%	SELL	SELL	SELL							
6/8/2017 16:00	143.74	143.8	142.79	143.57	25417408					-2.59%	-3.18%	-2.27%	SELL	SELL	SELL							
6/9/2017 16:00	143.73	143.9	138.11	139.98	109783737					-0.14%	-0.52%	0.38%	SELL	SELL	BUY							
6/12/2017 16:00	138.84	139.48	137.47	139.23	104453977	SELL				0.37%	0.07%	1.14%	BUY	BUY	BUY							
6/13/2017 16:00	140.01	140.56	139.28	140.36	51193010					-0.96%	-0.12%	-0.16%	SELL	SELL	SELL							
6/14/2017 16:00	140.92	140.93	138.62	139.75	60093764					-0.36%	0.37%	0.16%	SELL	BUY	BUY							
6/15/2017 16:00	138.35	139.28	137.49	139.13	55145160					0.14%	1.27%	-0.05%	BUY	SELL	SELL							
6/16/2017 16:00	138.72	138.78	137.64	138.15	48087413					1.47%	1.95%	0.12%	BUY	BUY	BUY							
6/19/2017 16:00	139.45	140.59	139.28	140.46	39626533					-0.14%	-0.36%	-1.85%	SELL	SELL	SELL							
6/20/2017 16:00	140.31	140.5	139.31	139.36	40935078					1.10%	0.13%	-1.52%	BUY	SELL	SELL							
6/21/2017 16:00	139.66	140.81	139.59	140.74	35743366					0.07%	-1.56%	-2.72%	SELL	SELL	SELL							
6/22/2017 16:00	140.94	141.22	140.34	140.7	24099115	BUY				-0.53%	-1.62%	-2.67%	SELL	SELL	SELL							
6/23/2017 16:00	140.53	141.42	140.15	141.24	21654314					-1.20%	-2.90%	-2.61%	SELL	SELL	SELL							
6/26/2017 16:00	142	142.29	140.27	140.58	34411094					-1.45%	-2.46%	-1.88%	SELL	SELL	SELL							
6/27/2017 16:00	140.07	140.22	138.02	138.03	65957819					0.28%	-0.99%	0.73%										

QQQ	Start of Historical Data:	2/17/2016			5/35 EMA Cross %D Indicator (Stk RSI Indicator)			MFI Indicator	MACD Indicator	Short Term			Mear	Medium	Term	Long	Time Frame:	Short Term	Medium Term	Long Term	
	End of Historical Data:	2/16/2019			Low	Close	Volume			Term	Mean	Best Short Term	Best Medium	Term	Best Long Term						
Date	Open	High																			
10/16/2017 16:0	148.7	148.89	148.39	148.85	21809410					-0.08%	-0.47%	0.30%	SELL	SELL	BUY						
10/17/2017 16:0	148.79	149.06	148.57	149.04	13138157					-0.28%	-0.89%	0.97%	SELL	SELL	BUY						
10/18/2017 16:0	149.21	149.21	148.64	148.86	17218243					-0.41%	-0.94%	1.95%	SELL	SELL	BUY						
10/19/2017 16:0	148.02	148.33	147.27	148.31	27680285			SELL		-0.11%	0.16%	2.43%	SELL	BUY	BUY						
10/20/2017 16:0	148.91	149.04	148.53	148.71	30173268					-0.67%	0.82%	2.44%	SELL	BUY	BUY						
10/23/2017 16:0	149.01	149.03	147.53	147.74	29297126			SELL		-0.19%	2.65%	3.39%	SELL	BUY	BUY						
10/24/2017 16:0	148	148.3	147.44	147.99	20289467				BUY		0.37%	2.67%	3.51%	BUY	BUY	BUY					
10/25/2017 16:0	147.7	148.18	146.33	147.43	36179124	SELL					1.69%	3.11%	4.36%	BUY	BUY	BUY					
10/26/2017 16:0	147.36	147.71	146.92	146.96	28230199						3.20%	3.70%	4.77%	BUY	BUY	BUY					
10/27/2017 16:0	149.33	151.52	149.2	151.24	60165127			SELL			0.47%	1.14%	1.78%	BUY	BUY	BUY					
10/30/2017 16:0	151.08	152.19	150.99	151.58	31733386						0.29%	1.36%	1.55%	BUY	BUY	BUY					
10/31/2017 16:0	152.04	152.37	151.63	152.15	26319327						0.16%	1.25%	0.98%	BUY	BUY	BUY					
11/1/2017 16:0	152.75	152.83	151.5	152.1	29481569						0.56%	1.26%	0.83%	BUY	BUY	BUY					
11/2/2017 16:0	151.92	151.99	150.77	151.81	31017426						1.21%	1.41%	1.16%	BUY	BUY	BUY					
11/3/2017 16:0	152.39	153.29	151.84	153.27	26199249						0.51%	0.31%	0.21%	BUY	BUY	BUY					
11/6/2017 16:0	153.13	153.85	153.1	153.79	28693919						0.15%	-0.11%	-0.04%	BUY	SELL	SELL					
11/7/2017 16:0	153.67	154.08	153.34	153.88	21333062						0.05%	-0.41%	0.37%	BUY	SELL	BUY					
11/8/2017 16:0	153.81	154.54	153.62	154.5	17373517						-0.49%	-0.66%	0.16%	SELL	SELL	BUY					
11/9/2017 16:0	153.26	153.77	152.11	153.69	40594482						-0.05%	0.00%	1.06%	SELL	BUY	BUY					
11/10/2017 16:0	153.36	153.8	153.06	153.68	20150762						-0.28%	0.28%	1.45%	SELL	BUY	BUY					
11/13/2017 16:0	153.12	154.07	153.1	153.87	12522399						-0.25%	0.36%	1.50%	SELL	BUY	BUY					
11/14/2017 16:0	153.31	153.5	152.57	153.31	25173763						0.25%	1.11%	1.58%	BUY	BUY	BUY					
11/15/2017 16:0	152.61	153	151.78	152.59	24808004			BUY			0.99%	2.11%	1.87%	BUY	BUY	BUY					
11/16/2017 16:0	153.38	154.89	153.33	154.54	34790570						-0.07%	0.97%	0.31%	SELL	BUY	BUY					
11/17/2017 16:0	154.58	154.69	153.8	153.95	28725800	SELL						0.69%	1.56%	0.07%	BUY	BUY	BUY				
11/20/2017 16:0	154.08	154.2	153.61	153.83	21143944						1.29%	1.12%	-0.03%	BUY	SELL	SELL					
11/21/2017 16:0	154.56	155.57	154.49	155.5	20147763						0.35%	-0.19%	-1.36%	BUY	SELL	SELL					
11/22/2017 16:0	155.63	155.84	155.34	155.69	17299040			SELL			0.42%	-0.76%	-1.56%	BUY	SELL	SELL					
11/24/2017 13:0	155.86	156.31	155.76	156.26	8280586						-0.46%	-1.37%	-1.60%	SELL	SELL	SELL					
11/27/2017 16:0	156.2	156.56	155.83	156.19	22653389						-0.63%	-1.83%	-1.06%	SELL	SELL	SELL					
11/28/2017 16:0	156.52	156.69	155.7	156.59	25227320						-1.33%	-2.29%	-0.97%	SELL	SELL	SELL					
11/29/2017 16:0	156.45	156.45	153.12	153.86	71986338			BUY			0.17%	-0.27%	1.11%	BUY	SELL	BUY					
11/30/2017 16:0	154.46	155.45	154.15	155.15	56595465						-1.17%	-0.69%	0.46%	SELL	SELL	BUY					
12/1/2017 16:0	154.19	155.24	152.26	154.49	59015828	SELL					-0.96%	0.25%	1.17%	SELL	BUY	BUY					
12/4/2017 16:0	155.47	155.63	152.56	152.71	51319146						0.48%	1.78%	2.84%	BUY	BUY	BUY					
12/6/2017 16:0	152.66	152.64	152.1	152.81	40604211						0.83%	2.00%	3.05%	BUY	BUY	BUY					
12/6/2017 16:0	152.26	153.74	152.06	153.5	28647769						0.89%	1.53%	2.85%	BUY	BUY	BUY					
12/7/2017 16:0	153.49	154.46	153.33	154.02	32666207						0.92%	1.61%	2.49%	BUY	BUY	BUY					
12/8/2017 16:0	155.1	155.53	154.46	154.7	28081666						0.75%	1.74%	1.83%	BUY	BUY	BUY					
12/11/2017 16:0	154.76	155.95	154.76	155.9	20821528						-0.03%	1.34%	0.86%	SELL	BUY	BUY					
12/12/2017 16:0	155.81	156.15	155.36	155.69	20310252						0.52%	1.46%	0.84%	BUY	BUY	BUY					
12/13/2017 16:0	156.28	156.49	155.76	155.99	24418479						0.90%	1.03%	0.51%	BUY	BUY	BUY					
12/14/2017 16:0	156.28	156.66	155.71	155.88	24594682						1.36%	1.03%	0.33%	BUY	BUY	BUY					
12/15/2017 16:0	156.49	157.82	156.23	157.65	49816151			SELL			0.19%	-0.32%	-0.49%	BUY	SELL	SELL					
12/18/2017 16:0	158.29	158.77	158.07	158.64	26844519						-0.66%	-1.15%	-0.56%	SELL	SELL	SELL					
12/19/2017 16:0	158.34	158.5	157.26	157.7	31414968						-0.14%	-0.70%	0.60%	SELL	SELL	BUY					
12/20/2017 16:0	158.25	158.28	156.91	157.53	38972602						-0.24%	-0.75%	1.69%	SELL	SELL	BUY					
12/21/2017 16:0	157.73	158.25	157.37	157.55	18638679						-0.47%	-0.35%	2.32%	SELL	SELL	BUY					
12/22/2017 16:0	157.31	157.43	156.95	157.37	23330440						-0.49%	0.46%	2.84%	SELL	BUY	BUY					
12/26/2017 16:0	156.53	156.72	155.95	156.52	21918720			BUY			-0.11%	1.97%	3.69%	SELL	BUY	BUY					
12/27/2017 16:0	156.52	156.96	156.39	156.54	22388186	SELL					0.29%	2.69%	3.90%	BUY	BUY	BUY					
12/28/2017 16:0	157.05	157.07	156.54	156.73	25393825						0.87%	3.10%	4.08%	BUY	BUY	BUY					
12/29/2017 16:0	156.9	156.9	155.7	155.76	33185962						2.47%	4.23%	4.97%	BUY	BUY	BUY					
1/2/2018 16:00	156.5	158.53	156.17	158.49	32573272						1.43%	2.49%	3.73%	BUY	BUY	BUY					
1/3/2018 16:00	158.61	160.17	158.61	160.03	29383557			SELL			0.98%	1.65%	3.12%	BUY	BUY	BUY					
1/4/2018 16:00	160.59	160.79	160.08	160.31	24776125						1.27%	1.88%	3.23%	BUY	BUY	BUY					
1/5/2018 16:00	161.04	162.03	160.77	161.92	26992340						0.31%	1.24%	2.84%	BUY	BUY	BUY					
1/8/2018 16:00	161.9	162.63	161.86	162.55	23159061						0.08%	1.36%	3.01%	BUY	BUY	BUY					
1/9/2018 16:00	162.85	163.04	162.07	162.56	24782448						0.47%	1.63%	3.40%	BUY	BUY	BUY					
1/10/2018 16:00	161.8	162.21	161.12	162.18	34004028						1.08%	2.35%	3.96%	BUY	BUY	BUY					
1/11/2018 16:00	162.48	163.3	162.21	163.29	20473518						0.90%	2.13%	3.68%	BUY	BUY	BUY					
1/12/2018 16:00	163.03	164.66	162.94	164.49	37762708						0.44%	2.13%	3.01%	BUY	BUY	BUY					
1/16/2018 16:00	165.55	166.42	163.53	164.02	41231849						1.20%	2.84%	3.35%	BUY	BUY	BUY					
1/17/2018 16:00	164.77	166.04	164	165.79	33849879						0.59%	1.79%	2.41%	BUY	BUY	BUY					
1/18/2018 16:00																					

QQQ	Start of Historical Data:	2/17/2016			5/35 EMA Cross %D Indicator (Stk RSI Indicator)			MFI Indicator	MACD Indicator	Short Term			Mear	Medium	Term	Long	Term Mean	Best Short Term	Best Medium	Term	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:	2/16/2019			Low	Close	Volume			Short	Term	Mear	Medium	Term	Long	Term									
Date	Open	High																							
1/26/2018 16:00	169.27	170.95	168.96	170.93	32038184					-0.90%	-4.31%	-7.55%	SELL	SELL	SELL	SELL									
1/29/2018 16:00	170.52	170.91	169.74	170.1	37277849					-0.83%	-4.95%	-7.61%	SELL	SELL	SELL	SELL									
1/30/2018 16:00	168.55	169.42	167.82	168.7	44987688	SELL				-0.82%	-5.03%	-6.92%	SELL	SELL	SELL	SELL									
1/31/2018 16:00	169.67	169.99	168.34	169.4	42449199					-3.45%	-6.34%	-5.94%	SELL	SELL	SELL	SELL									
2/1/2018 16:00	168.12	169.73	167.42	167.96	38037875					-3.74%	-6.77%	-3.71%	SELL	SELL	SELL	SELL									
2/2/2018 16:00	167.34	167.7	164.47	164.61	68478082	SELL				-2.67%	-5.15%	-0.82%	SELL	SELL	SELL	SELL									
2/5/2018 16:00	163.13	165.75	158	158.12	105372224					0.34%	0.06%	4.13%	BUY	BUY	BUY	BUY									
2/6/2018 16:00	155.96	162.51	155.1	162.31	118537891					-3.53%	-1.17%	1.78%	SELL	BUY											
2/7/2018 16:00	161.79	163.55	160.2	160.21	91028328	SELL				-2.54%	1.55%	2.97%	SELL	BUY	BUY	BUY									
2/8/2018 16:00	160.69	160.8	153.45	153.45	94184831					3.11%	7.17%	8.03%	BUY	BUY	BUY	BUY									
2/9/2018 16:00	155.66	157.24	150.13	156.1	113836554					2.76%	5.90%	7.01%	BUY	BUY	BUY	BUY									
2/12/2018 16:00	157.67	159.95	156.46	158.87	63050637					2.40%	3.87%	5.69%	BUY	BUY	BUY	BUY									
2/13/2018 16:00	157.98	160.01	157.72	159.69	31785595					2.98%	3.31%	5.53%	BUY	BUY	BUY	BUY									
2/14/2018 16:00	158.79	162.93	158	162.68	52107431	BUY				1.62%	2.00%	3.02%	BUY	BUY	BUY	BUY									
2/15/2018 16:00	164.14	165.7	162.44	165.7	51633887	BUY				-0.41%	1.26%	0.48%	SELL	BUY	BUY	BUY									
2/16/2018 16:00	165.18	166.76	164.68	164.96	62256291					0.01%	2.42%	0.86%	BUY	BUY	BUY	BUY									
2/20/2018 16:00	164.39	166.68	164.31	165.29	36785626					0.39%	2.02%	0.86%	BUY	BUY	BUY	BUY									
2/21/2018 16:00	166.06	167.72	164.72	164.82	41161779					1.80%	1.12%	1.82%	BUY	BUY	BUY	BUY									
2/22/2018 16:00	165.54	166.42	164.38	164.8	37074413					2.52%	0.66%	2.42%	BUY	BUY	BUY	BUY									
2/23/2018 16:00	166.06	168.17	165.45	168.17	50096916					0.28%	-1.23%	1.16%	BUY	SELL	BUY	BUY									
2/26/2018 16:00	168.93	170.4	168.82	170.4	39266658					-2.19%	-1.73%	0.65%	SELL	SELL	BUY	BUY									
2/27/2018 16:00	170.42	170.73	168.21	168.29	42209873					-1.42%	0.09%	2.32%	SELL	BUY	BUY	BUY									
2/28/2018 16:00	169.25	169.8	167.1	167.21	42936334					-0.66%	1.14%	3.26%	SELL	BUY	BUY	BUY									
3/1/2018 16:00	167.29	168.07	163	164.48	76809904					1.81%	3.75%	4.72%	BUY	BUY	BUY	BUY									
3/2/2018 16:00	162.59	166.28	161.96	165.99	57445063					1.47%	3.84%	3.31%	BUY	BUY	BUY	BUY									
3/5/2018 16:00	165.26	168.26	164.59	167.83	38540207	SELL				0.76%	3.07%	1.49%	BUY	BUY	BUY	BUY									
3/6/2018 16:00	168.61	169.11	167.48	168.54	29480927					1.25%	2.34%	0.47%	BUY	BUY	BUY	BUY									
3/7/2018 16:00	167.26	169.07	166.96	168.93	34609407					2.03%	1.60%	-0.45%	BUY	SELL	SELL	SELL									
3/8/2018 16:00	169.54	169.98	168.95	169.86	25282371					1.84%	0.91%	-2.20%	BUY	BUY	SELL	SELL									
3/9/2018 16:00	171.1	173.16	170.82	173.16	38310546					-0.39%	-1.89%	-5.31%	SELL	SELL	SELL	SELL									
3/12/2018 16:00	173.65	174.48	173.28	174.08	37634971					-1.40%	-3.15%	-6.27%	SELL	SELL	SELL	SELL									
3/13/2018 16:00	174.8	175.21	171.27	171.71	55638925					-0.17%	-2.61%	-6.12%	SELL	SELL	SELL	SELL									
3/14/2018 16:00	172.58	172.74	170.93	171.68	40536383					-1.05%	-3.43%	-6.91%	SELL	SELL	SELL	SELL									
3/15/2018 16:00	171.83	172.53	170.9	171.53	28810366					-1.71%	-5.12%	-6.60%	SELL	SELL	SELL	SELL									
3/16/2018 16:00	171.78	172.2	170.94	171.02	31176742					-2.22%	-5.33%	-7.62%	SELL	SELL	SELL	SELL									
3/19/2018 16:00	169.16	169.22	165.64	167.1	71395061	SELL				-0.78%	-3.85%	-5.72%	SELL	SELL	SELL	SELL									
3/20/2018 16:00	167.1	168.04	166.61	167.65	34075664					-2.93%	-4.42%	-5.66%	SELL	SELL	SELL	SELL									
3/21/2018 16:00	167.23	168.76	166.19	166.92	43863543					-3.01%	-4.85%	-5.17%	SELL	SELL	SELL	SELL									
3/22/2018 16:00	164.7	165.77	162.59	162.8	66607286	SELL				-1.31%	-3.18%	-2.60%	SELL	SELL	SELL	SELL									
3/23/2018 16:00	162.6	163.3	158.43	158.51	80110392					1.09%	-0.55%	0.11%	BUY	SELL	BUY	BUY									
3/26/2018 16:00	161.68	164.6	159.16	164.4	57481503					-3.39%	-4.20%	-3.25%	SELL	SELL	SELL	SELL									
3/27/2018 16:00	165.6	165.62	157.68	159.08	78889105					-0.91%	0.09%	-0.07%	BUY	SELL	SELL	SELL									
3/28/2018 16:00	158.25	159.78	156.04	157.25	89369655					0.24%	1.12%	1.98%	BUY	BUY	BUY	BUY									
3/29/2018 16:00	158.13	161.71	156.63	160.13	68692566					-1.64%	-1.12%	0.71%	SELL	SELL	BUY	BUY									
4/2/2018 16:00	159	159.74	153.88	155.51	85549443					2.38%	1.94%	3.93%	BUY	BUY	BUY	BUY									
4/3/2018 16:00	156.92	157.92	154.44	157.26	64090049					1.11%	1.58%	3.69%	BUY	BUY	BUY	BUY									
4/4/2018 16:00	154.27	160.23	154.04	159.74	65768692					-0.88%	0.93%	2.75%	SELL	BUY	BUY	BUY									
4/5/2018 16:00	161.33	161.58	159.48	160.65	43054868					-1.32%	0.40%	2.72%	SELL	BUY	BUY	BUY									
4/6/2018 16:00	158.94	160.46	155.88	156.63	59870865					1.99%	3.47%	5.30%	BUY	BUY	BUY	BUY									
4/9/2018 16:00	158.01	160.88	157.46	157.73	41810380					2.22%	3.57%	3.90%	BUY	BUY	BUY	BUY									
4/10/2018 16:00	160.13	161.73	159.07	161.21	48601323	BUY				0.05%	2.38%	0.42%	BUY	BUY	BUY	BUY									
4/11/2018 16:00	160.2	162	160.1	160.28	41622139					1.11%	3.45%	0.03%	BUY	BUY	BUY	BUY									
4/12/2018 16:00	161.3	162.77	161.16	162.21	30467889					0.71%	14.4%	-1.21%	BUY	BUY	SELL	SELL									
4/13/2018 16:00	163.01	163.26	160.67	161.37	44604892					2.28%	1.03%	-0.66%	BUY	SELL	SELL	SELL									
4/16/2018 16:00	162.45	163.19	161.48	162.6	28180780					1.98%	-1.06%	-1.03%	BUY	SELL	SELL	SELL									
4/17/2018 16:00	164.19	166.46	163.91	166.1	35536087	BUY				-0.93%	-3.87%</														

QQQ	Start of Historical Data:	2/17/2016			5/35 EMA Cross %D Indicator (Stk RSI Indicator)			MFI Indicator	MACD Indicator	Short Term Mear			Medium Term	Mkt Long Term	Mean	Best Short Term	Best Medium Ter	Best Long Term	Time Frame:	Short Term	Medium Term	Long Term
	End of Historical Data:	2/16/2019			Low	Close	Volume			1.76%	1.68%	1.22%	BUY	BUY	BUY							
Date	Open	High	Low	Close	Volume																	
5/8/2018 16:00	165.83	166.43	164.86	166.07	26040170						1.03%	0.31%	0.32%	BUY	BUY	BUY						
5/9/2018 16:00	166.4	168	165.78	167.88	29122718						-0.35%	-0.80%	-0.41%	SELL	SELL	SELL						
5/10/2018 16:00	168.43	169.74	168.29	169.62	27067597						-0.35%	-0.82%	-0.12%	SELL	SELL	SELL						
5/11/2018 16:00	169.35	169.86	168.72	169.46	24688847						-0.80%	-1.02%	-0.17%	SELL	SELL	SELL						
5/14/2018 16:00	169.84	170.82	169.47	169.75	21821749						0.23%	0.51%	0.03%	BUY	BUY	BUY						
5/15/2018 16:00	168.4	168.5	166.98	167.87	49361638						-0.54%	0.08%	0.45%	SELL	BUY	BUY						
5/16/2018 16:00	168.1	169.37	168.01	168.98	22941159						-0.19%	0.77%	1.28%	SELL	BUY	BUY						
5/17/2018 16:00	168.4	169.61	167.51	168.33	27480164						0.76%	1.17%	2.61%	BUY	BUY	BUY						
5/18/2018 16:00	167.71	168.26	167.21	167.46	26217939						0.42%	0.73%	2.72%	BUY	BUY	BUY						
5/21/2018 16:00	168.73	169.5	167.68	168.4	22954565						0.86%	0.93%	3.72%	BUY	BUY	BUY						
5/22/2018 16:00	169.15	169.45	167.88	168.18	19477721						-0.11%	0.82%	3.10%	SELL	BUY	BUY						
5/23/2018 16:00	166.9	169.62	166.88	169.6	26557835						0.04%	1.66%	3.15%	BUY	BUY	BUY						
5/24/2018 16:00	169.56	169.85	167.84	169.55	27698539						0.01%	2.50%	3.06%	BUY	BUY	BUY						
5/25/2018 16:00	169.54	170.33	169.21	169.72	27460536						1.20%	3.57%	3.51%	BUY	BUY	BUY						
5/29/2018 16:00	168.91	169.92	167.96	168.97	41220468						1.29%	2.86%	2.98%	BUY	BUY	BUY						
5/30/2018 16:00	169.63	170.48	169.22	170.18	22665836						0.62%	2.85%	3.51%	BUY	BUY	BUY						
5/31/2018 16:00	170.13	171.2	169.63	170.07	35670946						0.86%	2.29%	2.29%	SELL	SELL	SELL						
6/1/2018 16:00	170.88	172.84	170.87	172.74	45543331						1.31%	1.07%	2.21%	BUY	BUY	BUY						
6/4/2018 16:00	173.16	174.34	173.07	174.3	20459634						0.43%	0.44%	1.39%	BUY	BUY	BUY						
6/5/2018 16:00	174.69	175.13	174.07	174.84	24779284						0.04%	0.39%	1.10%	BUY	BUY	BUY						
6/6/2018 16:00	175.02	175.89	174.14	175.86	25036647						-0.72%	0.32%	0.29%	SELL	BUY	BUY						
6/7/2018 16:00	175.91	175.93	173.55	174.43	39600316						0.36%	1.36%	0.93%	BUY	BUY	BUY						
6/8/2018 16:00	173.57	174.88	173.18	174.44	31780348						0.62%	1.48%	0.76%	BUY	BUY	BUY						
6/11/2018 16:00	174.3	175.34	174.28	174.91	22319709						0.86%	0.91%	-0.18%	BUY	BUY	SELL						
6/12/2018 16:00	175.15	176	174.96	175.83	22511832						0.55%	0.19%	-1.26%	BUY	SELL	SELL						
6/13/2018 16:00	176.09	177.14	175.43	175.82	37858584						0.69%	0.05%	-2.10%	BUY	SELL	SELL						
6/14/2018 16:00	176.62	177.89	176.5	177.6	35915978						-0.62%	-1.08%	-3.67%	SELL	SELL	SELL						
6/15/2018 16:00	176.98	177.33	176.11	176.98	49615730						-0.46%	-1.61%	-3.29%	SELL	SELL	SELL						
6/18/2018 16:00	175.53	176.65	174.94	176.5	31633192						-0.34%	-2.03%	-2.92%	SELL	SELL	SELL						
6/19/2018 16:00	174.26	176.04	173.71	176	38235994						-0.18%	-2.81%	-2.49%	SELL	SELL	SELL						
6/20/2018 16:00	174.26	176.04	173.71	176	600121						BUY	-1.06%	-2.84%	-2.25%	SELL	SELL	SELL					
6/21/2018 16:00	177.69	177.88	175.37	175.71	43469439						-1.59%	-2.76%	-1.52%	SELL	SELL	SELL						
6/22/2018 16:00	176.31	176.37	174.69	175.32	30073187	SELL					-0.43%	-1.96%	-0.68%	SELL	SELL	SELL						
6/25/2018 16:00	173.76	173.99	169.81	171.37	77799725						-0.22%	0.22%	2.56%	SELL	BUY	BUY						
6/26/2018 16:00	171.99	173.06	171.37	172.07	39008146						-0.71%	0.06%	2.65%	SELL	BUY	BUY						
6/27/2018 16:00	172.77	173.58	169.61	169.73	52843497						1.27%	1.99%	4.64%	BUY	BUY	BUY						
6/28/2018 16:00	169.52	171.77	169.17	171.19	46407708						0.33%	2.37%	4.10%	BUY	BUY	BUY						
6/29/2018 16:00	172	172.92	171.4	171.65	36408464						0.30%	2.95%	4.09%	BUY	BUY	BUY						
7/2/2018 16:00	170.04	172.85	169.67	172.8	31770026						0.18%	2.42%	3.95%	BUY	BUY	BUY						
7/3/2018 13:00	173.41	173.45	170.63	170.8	25512707 SELL						2.60%	4.06%	5.24%	BUY	BUY	BUY						
7/5/2018 16:00	171.91	173.06	171.03	172.92	31626198 BUY	BUY					2.19%	3.22%	3.86%	BUY	BUY	BUY						
7/6/2018 16:00	173.31	175.74	173	175.61	37005574						0.78%	2.17%	2.25%	BUY	BUY	BUY						
7/9/2018 16:00	176.49	177.23	175.82	177.19	27362061						0.31%	1.41%	1.23%	BUY	BUY	BUY						
7/10/2018 16:00	177.41	177.72	176.71	177.32	23902488						0.66%	1.39%	1.21%	BUY	BUY	BUY						
7/11/2018 16:00	175.96	177.07	175.8	176.42	30280553						1.70%	1.88%	2.27%	BUY	BUY	BUY						
7/12/2018 16:00	177.21	179.46	177.08	179.46	27930119						0.13%	-0.08%	0.68%	SELL	SELL	BUY						
7/13/2018 16:00	179.42	179.9	178.95	179.61	28067961						0.10%	-0.23%	0.33%	BUY	SELL	BUY						
7/16/2018 16:00	179.64	179.95	178.88	179.18	21405310						0.31%	0.24%	-0.16%	BUY	BUY	SELL						
7/17/2018 16:00	177.3	180.65	177.28	180.27	31034075						-0.53%	0.35%	-1.64%	SELL	BUY	SELL						
7/18/2018 16:00	180.28	180.44	179.38	179.93	23220839						-0.41%	0.63%	-1.86%	SELL	BUY	SELL						
7/19/2018 16:00	179.34	179.88	178.82	179.03	31094145						0.33%	0.63%	-1.10%	BUY	BUY	SELL						
7/20/2018 16:00	179.57	180.17	178.79	178.99	35907619						1.06%	-0.78%	-0.39%	BUY	SELL	SELL						
7/23/2018 16:00	178.45	179.64	177.74	179.56	22184720						0.83%	-1.76%	-0.05%	SELL	SELL	SELL						
7/24/2018 16:00	181.39	182.05	179.56	180.3	36900281						-0.08%	-2.26%	0.19%	SELL	SELL	BUY						
7/25/2018 16:00	180.36	182.93	180.29	182.82	36022078						-2.86%	-2.80%	-0.85%	SELL	SELL	SELL						
7/26/2018 16:00	180.35	180.92	179.81	180.05	40873485						-2.03%	-0.63%	0.93%	SELL	SELL	BUY						
7/27/2018 16:00	181.26	181.31	176.6	177.62	59456093						BUY	-0.78%	1.48%	2.22%	SELL	BUY	BUY					
7/30/2018 16:00	177.66	177.73	174.27	175.11	60192990	SELL					1.48%	3.37%	3.47%	BUY	BUY	BUY						
7/31/2018 16:00	175.75	177.13	174.82	176.45	47285135						1.39%	2.95%	2.61%	BUY	BUY	BUY						
8/1/2018 16:00	176.87	177.65	176.1	177.12	37101925						1.77%	2.70%	1.84%	BUY	BUY	BUY						
8/2/2018 16:00	175.87	179.74	175.79	179.53	47178229																	

QQQ	Start of Historical Data:		2/17/2016		5/35 EMA Cross %D Indicator (Stk RSI Indicator)		MFI Indicator	MACD Indicator	Short Term		Mear	Medium	Term	Long	Time Frame:	Short Term	Medium Term	Long Term	
	Open	High	Low	Close	Volume				0.09%	0.90%	3.17%	BUY	BUY	BUY					
8/16/2018 16:00	180.57	180.99	179.47	179.82	27711761				0.29%	1.49%	3.47%	BUY	BUY	BUY					
8/17/2018 16:00	179.36	180.31	178.27	179.86	36092641				0.58%	2.29%	3.74%	BUY	BUY	BUY					
8/20/2018 16:00	180.28	180.33	179	179.7	24938956				0.60%	2.70%	2.90%	BUY	BUY	BUY					
8/21/2018 16:00	180.26	181.44	180.13	180.36	26258657				0.82%	2.68%	1.87%	BUY	BUY	BUY					
8/22/2018 16:00	179.96	181.27	179.75	181.06	18042380				1.66%	3.21%	1.25%	BUY	BUY	BUY					
8/23/2018 16:00	180.77	182.05	180.5	180.8	25776166				1.51%	2.10%	-0.25%	BUY	BUY	SELL					
8/24/2018 16:00	181.4	182.63	181.36	182.48	23136113				0.86%	0.53%	-1.30%	BUY	SELL	SELL					
8/27/2018 16:00	183.43	184.34	183.11	184.34	29343552			SELL	0.10%	1.04%	0.60%	BUY	BUY	BUY					
8/28/2018 16:00	184.8	185.02	184.22	184.61	20277036				1.08%	-0.49%	-1.34%	BUY	SELL	SELL					
8/29/2018 16:00	184.91	186.84	184.86	186.74	29175591				-0.23%	-2.47%	-2.01%	SELL	SELL	SELL					
8/30/2018 16:00	186.41	187.52	185.79	186.41	29315453				-0.59%	-2.61%	-1.53%	SELL	SELL	SELL					
8/31/2018 16:00	186.18	187.18	185.98	186.65	28653248				-1.58%	-2.50%	-1.90%	SELL	SELL	SELL					
9/4/2018 16:00	186.1	186.4	184.85	185.85	29063537				-2.01%	-1.82%	-1.44%	SELL	SELL	SELL					
9/5/2018 16:00	185.55	185.55	182.82	183.45	42623326				-1.04%	-0.02%	-0.40%	SELL	SELL	SELL					
9/6/2018 16:00	183.54	183.75	180.58	181.81	46091403			BUY	0.75%	1.20%	1.32%	BUY	BUY	BUY					
9/7/2018 16:00	180.53	182.67	180.44	181.11	46629495	SELL			0.93%	0.55%	1.12%	BUY	BUY	BUY					
9/10/2018 16:00	182.12	182.25	180.73	181.72	26131977				0.32%	-0.45%	0.54%	BUY	SELL	BUY					
9/11/2018 16:00	180.97	183.42	180.52	183.12	30116460				0.39%	0.46%	0.78%	BUY	BUY	BUY					
9/12/2018 16:00	182.87	182.98	181.01	182.58	36203973				-0.98%	-0.44%	0.00%	SELL	SELL	BUY					
9/13/2018 16:00	183.67	184.88	183.64	184.53	3113188				-0.92%	0.06%	0.55%	SELL	BUY	BUY					
9/14/2018 16:00	184.66	184.95	183.26	183.99	31224132				1.15%	1.42%	2.30%	BUY	BUY	BUY					
9/17/2018 16:00	183.66	183.81	181.17	181.34	33071197				0.48%	0.69%	1.67%	BUY	BUY	BUY					
9/18/2018 16:00	181.52	183.73	181.4	182.84	31877347				0.77%	1.12%	1.76%	BUY	BUY	BUY					
9/19/2018 16:00	182.86	183.3	181.51	182.7	31843377				-0.44%	0.31%	0.19%	SELL	BUY	BUY					
9/20/2018 16:00	183.95	184.97	183.52	184.72	33295820				0.21%	1.21%	-0.08%	BUY	BUY	SELL					
9/21/2018 16:00	185.27	185.48	183.48	183.71	38605353				0.47%	1.09%	-1.09%	BUY	BUY	SELL					
9/24/2018 16:00	182.05	183.96	181.3	183.89	34945602				0.63%	0.99%	-2.08%	BUY	BUY	SELL					
9/25/2018 16:00	183.78	184.28	183.18	184.14	25277520				0.90%	0.23%	-3.60%	BUY	BUY	SELL					
9/26/2018 16:00	184.25	185.99	183.91	184.27	36210571				0.04%	-1.62%	-5.83%	SELL	SELL	SELL					
9/27/2018 16:00	185.04	186.49	184.92	185.83	33113269			SELL	0.09%	-2.83%	-6.44%	BUY	SELL	SELL					
9/28/2018 16:00	185.25	186.28	184.97	185.79	28076843				-0.79%	-3.52%	-7.63%	SELL	SELL	SELL					
10/1/2018 16:00	186.82	187.53	185.7	186.17	27371297				-1.57%	-4.82%	-6.68%	SELL	SELL	SELL					
10/2/2018 16:00	185.95	187.18	185.32	185.75	25618608				-2.92%	-6.61%	-5.75%	SELL	SELL	SELL					
10/3/2018 16:00	186.52	186.97	185.66	185.95	29126863				-1.52%	-5.76%	-4.06%	SELL	SELL	SELL					
10/4/2018 16:00	185.22	185.32	181.06	182.38	80557283			BUY	-1.86%	-4.50%	-2.76%	SELL	SELL	SELL					
10/5/2018 16:00	182.39	182.97	178.43	180.15	83326530				-3.01%	-2.49%	-2.62%	SELL	SELL	SELL					
10/8/2018 16:00	179.37	180.64	176.93	179.05	66684481	SELL	SELL		-4.31%	-2.26%	-3.50%	SELL	SELL	SELL					
10/9/2018 16:00	179.2	181.02	178.75	179.63	49097949				0.18%	2.43%	-0.20%	BUY	BUY	SELL					
10/10/2018 16:00	178.53	178.62	171.15	171.73	114471052				2.94%	2.89%	0.76%	BUY	BUY	BUY					
10/11/2018 16:00	171.04	173.4	167.81	169.6	143084463				0.72%	-0.54%	-3.00%	BUY	SELL	SELL					
10/12/2018 16:00	173.99	174.86	170.93	174.32	102079388				2.14%	0.69%	-3.27%	BUY	SELL	SELL					
10/15/2018 16:00	173.69	174.04	171.56	172.21	64885255				-1.54%	-3.60%	-5.93%	SELL	SELL	SELL					
10/16/2018 16:00	174.02	177.65	173.7	177.22	71979688				-2.21%	-4.17%	-6.14%	SELL	SELL	SELL					
10/17/2018 16:00	178.14	178.26	175.47	177.29	66987639				0.13%	-3.17%	-3.13%	BUY	SELL	SELL					
10/18/2018 16:00	176.6	176.68	172.44	173.18	82486208	BUY			-1.26%	-3.49%	-2.15%	SELL	SELL	SELL					
10/19/2018 16:00	174.39	176.07	172.39	173.02	82923733				-2.31%	-4.97%	-2.22%	SELL	SELL	SELL					
10/22/2018 16:00	174.06	175.25	172.59	173.91	52909281				-3.22%	-4.01%	-1.79%	SELL	SELL	SELL					
10/23/2018 16:00	170.79	174.13	168.82	173.27	77566972				0.99%	2.37%	3.45%	BUY	BUY	BUY					
10/24/2018 16:00	173.12	173.36	165.04	165.34	102997449				-3.38%	-0.37%	0.73%	SELL	SELL	BUY					
10/25/2018 16:00	167.99	172.08	167.16	171.06	83481070				-0.20%	2.08%	3.77%	SELL	BUY	BUY					
10/26/2018 16:00	165.24	169.96	164.23	166.66	130970908				3.70%	3.86%	5.36%	BUY	BUY	BUY					
10/29/2018 16:00	169.16	169.86	160.09	163.23	111871933				2.71%	3.42%	2.28%	BUY	BUY	BUY					
10/30/2018 16:00	162.8	166.04	162.01	165.92	92583965				0.18%	2.12%	-1.44%	BUY	BUY	SELL					
10/31/2018 16:00	168.55	171.25	168.54	169.82	73828635				-1.47%	1.04%	-3.22%	SELL	BUY	SELL					
11/1/2018 16:00	170.08	172.24	168.78	172.06	52706823	BUY			-1.31%	0.82%	-1.51%	BUY	BUY	SELL					
11/2/2018 16:00	171.53	172.55	168.22	169.38	75966781			SELL	2.64%	-0.51%	-1.92%	BUY	SELL	SELL					
11/5/2018 16:00	169.61	169.66	167.08	168.96	39573533				2.12%	-2.49%	-3.55%	BUY	SELL	SELL					
11/6/2018 16:00	168.93	171.19	168.72	170.24	34410390				-2.74%	-5.12%	-7.58%	SELL	SELL	SELL					
11/7/2018 16:00	172.25	175.58	171.87	175.58	51169614				-3.64%	-4.32%	-8.17%	SELL	SELL	SELL					
11/8/2018 16:00	174.76	175.3	173.63	174.46	40296538				-3.22%	-3.29%	-6.48%	SELL	SELL	SELL					
11/9/2018 16:00	172.83	173.25	170.16	171.52	50602710				0.15%	-2.06%	-2.92%	BUY	SELL	SELL					
11/12/2018 16:00	170.33	170.64	166.18	166.33	62578371				0.28%	-3.57%	-1.75%	BUY	SELL	SELL					
11/13/2018 16:00	167.15	169.48	166	166.47	64128079				BUY	0.41%	-3.40%	0.36%	BUY	SELL	BUY				
11/14/2018 16:00	168.09	168.7	164.25	165.2	75270714				SELL	-3.08%	-4.32%	-0.40%	SELL	SELL	SELL				
11/15/2018 16:00	164.84	168.54	163.46	168.09	73254349					-4.16%	-3.38%	1.28%	SELL	SELL	BUY				
11/16/2018 16:00	166.49	168.31	165.78	167.5	65390675					2.64%	-0.51%	-1.92%	BUY	SELL	SELL				
11/19/2018 16:00	166.74	166.9	161.54	162.06	67280478					2.12%	-2.49%	-3.55%	BUY	SELL	BUY				
11/20/2018 16:00	158.37	161.38	157.13	159.16	102652794					-2.74%	-5.12%	-7.58%	SELL	SELL	BUY				











