

# QUANTIFIABLE EDGES SUBSCRIBER LETTER

ASSESSING MARKET ACTION WITH INDICATORS AND HISTORY

February 20, 2009

Volume 2 Issue 34

## Market Overview

*Summary of Recent Active Studies (see <http://QuantifiableEdges.blogspot.com> or Letters from listed dates for details)*

Study Date	Description	Time span	Bias	Avg Max Move	Avg MM + 1 Std Dev
<b>Active</b>					
February 20, 2009	McClellan < -200	1-6 days	Bullish	3.85%	6.92%
February 20, 2009	2-day RSI<2 & SPX 50-day low	1-2 days	Bullish	2.70%	6.35%
February 18, 2009	2 Down In chop	1-3 days	Bullish	1.60%	3.40%
February 18, 2009	2.5% drop after 5-day low	1-5 days	Bullish	4.20%	7.90%
<b>February 12, 2009</b>	<b>Weak Bounce</b>	<b>1-10 days</b>	<b>Bearish</b>	<b>-4.50%</b>	<b>-7.80%</b>
<b>Active - Long Term</b>					
March 17, 2008	Consumer Sentiment Stretch	1-12 months	Bullish		
<b>Dropped Tonight</b>					
February 9, 2009	Nasdaq Breadth Thrust	1-20 days	Bullish	5.90%	9.60%

If the avg max move is achieved it will appear in **bold and brown**. If the avg + 1 std deviation is achieved, the study will in *bold italic blue*.

### *Short-term Outlook (1-5 days) – updated 2/20 – bullish*

A gap up in the morning failed to gain traction and the market sold off for much of the day, closing near its lows. Breadth was once again weak. On the NYSE, both down issues and down volume exceeded up issues and up volume by almost 3 to 1. Total volume edged higher from Wednesday's levels.

I mentioned last night that breadth statistics were on the verge of turning extremely negative. Today we saw measures like the [NYSE Up Issues % 10-day EMA](#) and the McClellan Oscillator make extreme lows.

According to the Worden Bros. database the McClellan Oscillator closed at -221 today. I [showed last June that an upside edge existed](#) when the reading dropped below -200. The table below shows how the market has reacted under such circumstances:

McClellan Oscillator (as calculated by Worden Bros.) closes under -200.										
Buy S&P 500 on close. Sell X days later. \$100k/trade. 1986 - present.										
X Days	Net Profit	Trades	Wins	Losses	% Wins	Avg Win	Avg Loss	W/L Ratio	Profit Factor	Avg Trade
10	\$38,736.71	21	17	4	80.95	\$2,850.56	(\$2,430.71)	1.17	4.98	\$1,844.61
9	\$35,041.14	21	18	3	85.71	\$2,709.43	(\$4,576.17)	0.59	3.55	\$1,668.63
8	\$28,373.80	21	15	6	71.43	\$2,946.64	(\$2,637.63)	1.12	2.79	\$1,351.13
7	\$21,037.02	21	15	6	71.43	\$2,740.34	(\$3,344.67)	0.82	2.05	\$1,001.76
<b>6</b>	<b>\$45,641.52</b>	<b>21</b>	<b>17</b>	<b>4</b>	<b>80.95</b>	<b>\$3,529.21</b>	<b>(\$3,588.77)</b>	<b>0.98</b>	<b>4.18</b>	<b>\$2,173.41</b>
5	\$42,417.29	21	15	6	71.43	\$3,600.42	(\$1,931.49)	1.86	4.66	\$2,019.87
4	\$11,767.92	21	15	6	71.43	\$2,435.17	(\$4,126.60)	0.59	1.48	\$560.38
3	\$18,063.57	21	17	4	80.95	\$2,313.71	(\$5,317.39)	0.44	1.85	\$860.17
2	\$21,206.98	21	15	6	71.43	\$2,144.29	(\$1,826.23)	1.17	2.94	\$1,009.86
1	\$7,051.19	21	15	6	71.43	\$1,626.11	(\$2,890.07)	0.56	1.41	\$335.77

There is a substantial upside edge suggested here. Unfortunately, it is short-term in nature and doesn't last beyond day 6. Still, 18 of 21 (85%) instances closed above their trigger price at some point in the next 3 days.

I showed a simple system last June that went long the S&P when the McClellan Oscillator fell below -200 and the sold on a move back above 0. At the time it was 17-0. After losing trades in June/July and October it is now 18-2. Below is the performance breakdown of the system:

All Trades			
Total Net Profit	\$48,549.28	Profit Factor	4.95
Gross Profit	\$60,837.10	Gross Loss	(\$12,287.82)
Roll Over Credit	\$0.00		
Open Position Profit/Loss	\$0.00		
Select Total Net Profit	\$48,549.28	Select Profit Factor	4.95
Select Gross Profit	\$60,837.10	Select Gross Loss	(\$12,287.82)
Adjusted Total Net Profit	\$25,521.04	Adjusted Profit Factor	2.22
Adjusted Gross Profit	\$46,497.66	Adjusted Gross Loss	(\$20,976.62)
Total Number of Trades	20	Percent Profitable	90.00%
Winning Trades	18	Losing Trades	2
Even Trades	0		
Avg. Trade Net Profit	\$2,427.46	Ratio Avg. Win:Avg. Loss	0.55
Avg. Winning Trade	\$3,379.84	Avg. Losing Trade	(\$6,143.91)
Largest Winning Trade	\$9,572.31	Largest Losing Trade	(\$6,720.06)

Below is a list of all the trades. You can see the 2 losers near the bottom.

Date/Time	Signal	Price	Roll Over USD/Lot	Shares/Ctrts Profit	Net Profit Cum Net Profit	% Profit
04/04/94	Buy	\$438.92	\$0.00	227	\$1,977.17	1.98%
04/22/94	Sell	\$447.63		\$1,977.17	\$1,977.17	
10/27/97	Buy	\$876.97	\$0.00	114	\$7,070.28	7.07%
11/03/97	Sell	\$938.99		\$7,070.28	\$9,047.45	
04/27/98	Buy	\$1,086.54	\$0.00	92	\$3,172.16	3.17%
05/01/98	Sell	\$1,121.02		\$3,172.16	\$12,219.61	
08/04/98	Buy	\$1,072.12	\$0.00	93	\$2,704.44	2.71%
08/18/98	Sell	\$1,101.20		\$2,704.44	\$14,924.05	
08/31/98	Buy	\$957.55	\$0.00	104	\$6,853.60	6.88%
09/08/98	Sell	\$1,023.45		\$6,853.60	\$21,777.65	
03/22/01	Buy	\$1,117.00	\$0.00	89	\$3,857.26	3.88%
03/30/01	Sell	\$1,160.34		\$3,857.26	\$25,634.91	
09/17/01	Buy	\$1,038.77	\$0.00	96	\$208.32	0.21%
09/28/01	Sell	\$1,040.94		\$208.32	\$25,843.23	
07/22/02	Buy	\$819.85	\$0.00	121	\$9,572.31	9.65%
07/29/02	Sell	\$898.96		\$9,572.31	\$35,415.54	
05/10/04	Buy	\$1,087.12	\$0.00	91	\$187.46	0.19%
05/20/04	Sell	\$1,089.18		\$187.46	\$35,603.00	
03/22/05	Buy	\$1,171.71	\$0.00	85	\$1,049.75	1.05%
04/06/05	Sell	\$1,184.06		\$1,049.75	\$36,652.75	
05/18/06	Buy	\$1,261.81	\$0.00	79	\$1,449.65	1.45%
05/26/06	Sell	\$1,280.16		\$1,449.65	\$38,102.40	
06/13/06	Buy	\$1,223.69	\$0.00	81	\$2,176.47	2.20%
06/26/06	Sell	\$1,250.56		\$2,176.47	\$40,278.87	
03/05/07	Buy	\$1,374.12	\$0.00	72	\$2,338.56	2.36%
03/12/07	Sell	\$1,406.60		\$2,338.56	\$42,617.43	
06/07/07	Buy	\$1,490.72	\$0.00	67	\$2,826.73	2.83%
06/15/07	Sell	\$1,532.91		\$2,826.73	\$45,444.16	
07/26/07	Buy	\$1,482.66	\$0.00	67	\$993.61	1.00%
08/08/07	Sell	\$1,497.49		\$993.61	\$46,437.77	
08/15/07	Buy	\$1,406.70	\$0.00	71	\$2,869.82	2.87%
08/21/07	Sell	\$1,447.12		\$2,869.82	\$49,307.59	
03/10/08	Buy	\$1,273.39	\$0.00	78	\$5,966.22	6.01%
03/24/08	Sell	\$1,349.88		\$5,966.22	\$55,273.81	
06/11/08	Buy	\$1,335.49	\$0.00	74	(\$5,567.76)	(5.63%)
07/17/08	Sell	\$1,260.25		(\$5,567.76)	\$49,706.05	
10/06/08	Buy	\$1,056.89	\$0.00	94	(\$6,720.06)	(6.76%)
10/20/08	Sell	\$985.40		(\$6,720.06)	\$42,985.99	
11/19/08	Buy	\$806.58	\$0.00	123	\$5,563.29	5.61%
11/24/08	Sell	\$851.81		\$5,563.29	\$48,549.28	

One question traders need to ask themselves when looking at results like these is “Has the edge dissipated or is the system still valid?” My feeling is that an upside edge still remains when breadth has reached such extremes as we’re currently seeing. The problem with the market over the last year has been that it has redefined “extreme”. That goes for not only breadth indicators but both price and sentiment indicators as well. To me results like this suggest that taking a shot at a long trade is worth it, but it may be a good idea to ensure you don’t get overextended. I’ve been favoring a scale-in method for entering the trade.

The CBI hit 5 today. This is the 1<sup>st</sup> time it has reached 5 since the January bottom. I often say 5 is a level where I’m no longer interested in the short side. There is a decent long-side edge at 5, but not enormous. In this case we have what I call a “weak” 5 since it only comes from 2 different stocks. Below is a performance report showing results for the S&P 500 if you bought when the CBI reached 5 and sold when the reading returned to 3 or lower.

All Trades			
Total Net Profit	\$94,975.34	Profit Factor	3.97
Gross Profit	\$126,935.10	Gross Loss	(\$31,959.76)
Roll Over Credit	\$0.00		
Open Position Profit/Loss	\$0.00		
Select Total Net Profit	\$93,610.36	Select Profit Factor	5.20
Select Gross Profit	\$115,906.92	Select Gross Loss	(\$22,296.56)
Adjusted Total Net Profit	\$70,527.34	Adjusted Profit Factor	2.79
Adjusted Gross Profit	\$109,819.17	Adjusted Gross Loss	(\$39,291.83)
Total Number of Trades	74	Percent Profitable	74.32%
Winning Trades	55	Losing Trades	19
Even Trades	0		
Avg. Trade Net Profit	\$1,283.45	Ratio Avg. Win:Avg. Loss	1.37
Avg. Winning Trade	\$2,307.91	Avg. Losing Trade	(\$1,682.09)
Largest Winning Trade	\$11,028.18	Largest Losing Trade	(\$9,663.20)
Largest Winner as % of Gross Profit	8.69%	Largest Loser as % of Gross Loss	30.24%

The upside edge is apparent. Similar to other breadth indicators has struggled some since the beginning of the current bear market. Below is the list of trades from that time period.

63	Buy	11/07/07	Buy	\$1,475.65	\$0.00	67	(\$444.88)	(0.45%)
	Sell	11/28/07	Sell	\$1,469.01			\$78,151.26	
64	Buy	01/02/08	Buy	\$1,447.17	\$0.00	69	(\$3,932.31)	(3.94%)
	Sell	01/08/08	Sell	\$1,390.18			\$74,218.95	
65	Buy	01/18/08	Buy	\$1,325.20	\$0.00	75	\$3,987.75	4.01%
	Sell	01/31/08	Sell	\$1,378.37			\$78,206.70	
66	Buy	03/05/08	Buy	\$1,333.71	\$0.00	74	(\$1,349.02)	(1.37%)
	Sell	03/13/08	Sell	\$1,315.48			\$76,857.68	
67	Buy	05/27/08	Buy	\$1,385.35	\$0.00	72	\$929.52	0.93%
	Sell	05/29/08	Sell	\$1,398.26			\$77,787.20	
68	Buy	06/09/08	Buy	\$1,361.77	\$0.00	73	(\$118.99)	(0.12%)
	Sell	06/16/08	Sell	\$1,360.14			\$77,668.21	
69	Buy	06/20/08	Buy	\$1,317.86	\$0.00	75	\$308.25	0.31%
	Sell	06/25/08	Sell	\$1,321.97			\$77,976.46	
70	Buy	06/27/08	Buy	\$1,278.49	\$0.00	78	(\$1,390.74)	(1.39%)
	Sell	07/18/08	Sell	\$1,260.66			\$76,585.72	
71	Buy	09/17/08	Buy	\$1,156.42	\$0.00	86	\$8,484.76	8.53%
	Sell	09/19/08	Sell	\$1,255.08			\$85,070.48	
72	Buy	10/06/08	Buy	\$1,056.89	\$0.00	94	(\$9,663.20)	(9.73%)
	Sell	10/30/08	Sell	\$954.09			\$75,407.28	
73	Buy	11/19/08	Buy	\$806.58	\$0.00	123	\$11,028.18	11.12%
	Sell	11/28/08	Sell	\$896.24			\$86,435.46	
74	Buy	01/20/09	Buy	\$805.22	\$0.00	124	\$8,539.88	8.55%
	Sell	01/28/09	Sell	\$874.09			\$94,975.34	
75	Buy	02/19/09	Buy	\$778.94		128	n/a	n/a
	Sell	open	n/a	\$778.94		n/a	n/a	n/a

As with other breadth indicators it hasn't been as consistent recently. Still, it had led to sizable gains over the period.

Not only is the market oversold from a breadth standpoint, but from a short-term price perspective we're oversold as well. This can be seen by looking at the 2-period RSI, which closed at 2 on Thursday. Short-term oversold at intermediate-term lows has historically been a bullish combination. Below I look at all instances since 1985 of an RSI of 2 or lower when the S&P closes at a 50-day low:

<b>S&amp;P 500 2-period RSI closes at 2 or lower while the S&amp;P closes at a 50-day low.</b>										
<b>Buy on close. Sell X days later. \$100k/trade. 1985-present.</b>										
X Days	Net Profit	Trades	Wins	Losses	% Wins	Avg Win	Avg Loss	W/L Ratio	Profit Factor	Avg Trade
10	\$8,876.22	28	19	9	67.86	\$3,087.38	(\$5,531.55)	0.56	1.18	\$317.01
9	\$26,427.61	28	19	9	67.86	\$3,460.86	(\$4,369.87)	0.79	1.67	\$943.84
8	\$35,702.64	28	21	7	75.00	\$3,294.69	(\$4,783.70)	0.69	2.07	\$1,275.09
7	\$29,626.99	28	20	8	71.43	\$3,258.31	(\$4,442.39)	0.73	1.83	\$1,058.11
6	\$29,239.44	29	21	8	72.41	\$3,501.80	(\$5,537.29)	0.63	1.66	\$1,008.26
5	\$16,799.34	31	22	9	70.97	\$3,135.25	(\$5,797.35)	0.54	1.32	\$541.91
4	\$38,772.15	31	24	7	77.42	\$2,518.16	(\$3,094.81)	0.81	2.79	\$1,250.71
3	\$40,485.79	31	24	7	77.42	\$2,341.48	(\$2,244.26)	1.04	3.58	\$1,305.99
2	\$48,287.21	34	26	8	76.47	\$2,588.86	(\$2,377.88)	1.09	3.54	\$1,420.21
1	\$40,386.53	43	31	12	72.09	\$1,986.59	(\$1,766.48)	1.12	2.91	\$939.22

Not seen in the table above is that an astonishing 30 of 31 instances closed above the entry price at some time in the next four days.

Rather than simply looking at a time exit I also looked to see what results would be if the exit trigger was based on reaching a certain RSI. Those results are below:

<b>S&amp;P 500 2-period RSI closes at 2 or lower while the S&amp;P closes at a 50-day low.</b>										
<b>Buy on close. Sell when RSI &gt; X. \$100k/trade. 1985-present.</b>										
X RSI	Net Profit	Trades	Wins	Losses	% Wins	Avg Win	Avg Loss	W/L Ratio	Profit Factor	Avg Trade
75	\$22,656.05	27	22	5	81.48	\$2,544.86	(\$6,666.19)	0.38	1.68	\$839.11
70	\$32,076.22	28	24	4	85.71	\$2,587.77	(\$7,507.56)	0.34	2.07	\$1,145.58
65	\$58,804.11	29	26	3	89.66	\$2,635.67	(\$3,241.07)	0.81	7.05	\$2,027.73
60	\$58,338.51	29	25	4	86.21	\$2,765.52	(\$2,699.87)	1.02	6.40	\$2,011.67
55	\$55,439.74	29	25	4	86.21	\$2,650.94	(\$2,708.45)	0.98	6.12	\$1,911.72
50	\$51,570.24	29	25	4	86.21	\$2,500.12	(\$2,733.21)	0.91	5.72	\$1,778.28
45	\$46,643.31	29	25	4	86.21	\$2,306.25	(\$2,753.21)	0.84	5.24	\$1,608.39
40	\$45,366.58	29	25	4	86.21	\$2,255.18	(\$2,753.21)	0.82	5.12	\$1,564.36
35	\$39,312.45	29	25	4	86.21	\$2,013.01	(\$2,753.21)	0.73	4.57	\$1,355.60
30	\$39,312.45	29	25	4	86.21	\$2,013.01	(\$2,753.21)	0.73	4.57	\$1,355.60
25	\$38,943.06	30	26	4	86.67	\$1,655.26	(\$1,023.42)	1.62	10.51	\$1,298.10
20	\$40,012.36	30	28	2	93.33	\$1,547.66	(\$1,661.07)	0.93	13.04	\$1,333.75
15	\$39,856.48	30	28	2	93.33	\$1,542.09	(\$1,661.07)	0.93	13.00	\$1,328.55
10	\$39,856.48	30	28	2	93.33	\$1,542.09	(\$1,661.07)	0.93	13.00	\$1,328.55

Price and breadth are both now at a point where the market has traditionally put in a bounce within the next few days.

Tonight's [Aggregator](#) chart is below:



The studies are strongly bullish (green Aggregator line) and the market has underperformed expectations by a very large amount over the last few days (black differential line). This is the most bullish configuration we've seen this year from the standpoint of the Aggregator. Still, I've been slow to add exposure since the November lows remain ever closer and appear to be acting as a magnet. We're reaching a point here where the edge appears to be quite strong and I'm going to look to add a little more on Friday weakness.

Details in the trade ideas section below.

***Intermediate-term Outlook (2 weeks – 2 months)–neutral -updated 2/17***

While the selling was fairly strong this past week, no major support levels were broken for the S&P 500 or Nasdaq Composite. The S&P is now trading near the lower end of its recent range while the Nasdaq is in the middle of its range. The Dow on the other hand did drop to its lowest levels since November. While it could be considered a warning sign, the Dow's broken support is not terribly alarming just yet. The index is only comprised of 30 stocks and it wasn't confirmed by any of the other major indices – including the Smallcaps and Midcaps.

I've included a chart of the S&P 500 below for reference:



The dark red line is the 800 level. Thursday's low was at 808 and the January low was 804. The spike down in November saw the S&P dip below 750, but there was only one day where it closed below 800. A move down through the 800 level could lead to a sharp selloff that might test or break through the November lows.

Last week I noted the Nasdaq had undergone a breadth thrust that was strong enough that it had often led to intermediate-term rallies in the past. The measure we used to conduct the tests was the 10-day EMA of the Nasdaq Up Volume %. It had spiked above 64% as of Friday the 6<sup>th</sup>. In testing some systems related to this indicator we found that a reasonable exit signal would come when the indicator dropped back down into the mid-40's. As of Friday it was already down to between 50% and 51%. A breadth failure in the Nasdaq could also confirm price failures if the market is unable to rally from these nearby support levels.

The Nasdaq does continue to outperform the NYSE. Even this week where the markets fell, the Nasdaq held up better than the NYSE Composite Index, falling 3.6% vs. the NYSE's 4.9% decline. The Nasdaq's relative strength line has now broken to new highs. The Nasdaq:NYSE ratio is now at its highest level since 2005. If nothing else, this would seem to indicate that should the market manage to muster a multi-month rally here soon then the best opportunities for profit may lie in Nasdaq stocks. This is especially true of trend-following methods as I expect the Nasdaq stocks are better positioned to emerge into leadership positions.

As I've been saying, I expect we're likely to see a decent rally of 30% or more lasting at least 2-3 months emerge here at some point. I have serious doubts that next rally will lead to a multi-year bull market run, though. Until I see signs otherwise, I'm treating this market as one that is more similar to the 1930's than any other period in time. Past evidence of this includes volatility studies, Dow Trend vs. Chop studies, and studies of severe selloffs such as we saw in the fall. I'll be sure to revisit these studies when appropriate. For now my focus remains short-term.

## **Catapult and Capitulative Breadth Statistics**

*(Catapult Presentation Part 1) (Catapult Presentation Part 2)*

### ***Open Catapult Triggers***

DOW (Dow Chemical) –@ \$9.29 (1/3)

DOW (Dow Chemical) –@ \$8.62 (1/3)

DOW (Dow Chemical) – bought last 1/3 position @ \$8.60

CAT – bought 1/3 position @ \$28.44

**New**

CAT – buy 1/3 position @ \$27.02 limit

### ***Catapult for ETF's Trades***

*none*

***Broad Market Large Cap CBI – 5/2 (DOW-3, CAT-2)***

### ***Sector CBI Breakdown (% of stocks with active catapult triggers within each sector.)***

<b>Index</b>	<b>ETF</b>	<b>CBI %</b>	<b>Index</b>	<b>ETF</b>	<b>CBI %</b>
DJ US Broker Dealers	IAI	0.00	DJ US Energy	IYE	1.16
DJ US Insurance Index	IAK	6.76	DJ US Financial	IYF	7.19
DJ US Regional Banks	IAT	17.50	DJ US Financial Services	IYG	10.49
DJ US Utilities	IDU	0.00	DJ US Healthcare	IYH	0.00
DJ US Oil&Gas Expl & Prod	IEO	1.72	DJ US Industrial Sector	IYJ	3.83
DJ US Oil Equip & Svcs	IEZ	5.77	DJ US Consumer Goods	IYK	2.72
DJ US Pharmaceuticals	IHE	0.00	DJ US Basic Materials	IYM	5.41
DJ US Healthcare Providers	IHF	2.04	DJ US Real Estate	IYR	2.44
DJ US Medical Devices	IHI	0.00	DJ US Transportation	IYT	0.00
DJ US Aerospace & Defense	ITA	2.78	DJ US Technology Sector	IYW	2.51
DJ US Home Construction	ITB	0.00	DJ US Telecommunications	IYZ	0.00
DJ US Consumer Svcs	IYC	0.88	Nasdaq 100	QQQQ	0.00

Regional banks spiking.

### **Additional New Trade Ideas**

*SPY – buy ¼ index position at \$75.00 limit. If not filled, buy @ \$78.00 limit ON CLOSE.*  
Based on short-term market outlook from above. I'm looking to add to the current ¼ index position on weakness during the day. If not filled, I'll loosen the limit price for an end-of-day fill.

*CAT from the Catapult section above.*

*KBE – buy @ \$10.86 limit ON CLOSE.* KRE – the regional bank ETF is actually a Catapult for ETF's trigger tonight, although I didn't list it above since I'd rather play KBE. You should also note that the regional banks above have seen a huge spike in their CBI%. Additionally, among the big banks we could see some trigger Catapults tomorrow on further selling. These could include Citibank and Bank of America. Both of them are now so low priced and volatile that I'd be wary of taking positions.

Therefore I'll look to trade KBE instead, which contains both of them along with several other large banks. Should the market bounce in the next few days, I expect ETF's like KRE, KBE, and IAT will see some of the most vicious bounces.

Unfortunately I passed on USO last night. Hopefully some more aggressive traders decided to take it as it rose nicely today.

### Active Trades Table

Symbol	Entry Date	Entry Price	Current Price	% Gain/Loss	Stop	Notes
DOW(1/3)	2/17/2009	\$9.29	\$8.20	-11.73%		Catapult
DOW(1/3)	2/18/2009	\$8.62	\$8.20	-4.87%		Catapult
SPY(1/4)	2/18/2009	\$79.22	\$78.18	-1.31%		
DOW(1/3)	2/19/2009	\$8.60	\$8.20	-4.65%		Catapult
CAT(1/3)	2/19/2009	\$28.44	\$27.02	-4.99%		Catapult
SPY(1/4)	2/19/2009	\$78.18	\$78.18	0.00%		

The average price on the DOW position is now \$8.84. For those who may have missed my recent discussion of Catapult trades, you may find it in Tuesday's Subscriber Letter:

[2009-02-17 QE Subscriber Letter.pdf](#)

The average entry price for SPY is \$78.70.

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