

# Tactical Allocation with 3 ETF Holdings

This strategy uses a six month relative strength report and rotates every other week. Current holdings must be in the top half of the report. The strategy is featured in the book, *Exchange Traded Profits: Cashing in on new ETF trading methods*.

## Percentage Returns

<u>Year</u>	<u>ETF Trading</u>	<u>S&amp;P 500 Index</u>
1998	24.48	26.67
1999	51.06	19.53
2000	-2.36	-10.14
2001	-2.34	-13.04
2002	-4.75	-23.37
2003	36.60	26.38
2004	9.38	8.99
2005	6.73	3.00
2006	5.76	13.62
2007	21.62	3.53
2008	13.67	-38.49
2009	30.12	23.45
2010	3.19	12.78
2011	-8.03	-0.01
2012	5.84	13.41
2013	13.94	29.60
2014	6.39	11.39
2015	-4.38	-0.73
2016	-1.16	9.54
2017	17.93	19.42
2018	3.32	-6.24
2019	5.42	28.88
2020	9.63	16.26
2021	15.56	26.89
2022	<u>-7.48</u>	<u>-19.44</u>
ARO	9.18	5.66

Through 12/31/22

- 9.5 round trip trades per year with an average holding period of 117 days.
- Largest Drawdown: 18% from 3/09/00 to 4/16/00
- This does not represent the returns a portfolio would have achieved. It is simply to determine if the trading strategy is sound.  
Past performance does not guarantee future results.

# Assumptions

There are many assumptions to our tests. The percentage returns represent a hypothetical back test, instead of actual performance. The back test's returns and other figures have not been audited but are based upon information obtained from public sources believed to be reliable. Since no funds were managed using the strategies during this period, the impact that economic and market factors might have had on the trading cannot be represented.

The strategies are managed with a view toward capital appreciation with risk levels greater than the S&P 500. As with any strategy, **past performance does not guarantee future results or that losses will not occur.**

## Individual Trades

Ticker	Buy Date	Sell Date	% Change	Days Held
SPY	12/31/1997	8/21/1998	11.85	233
TLT	12/31/1997	11/13/1998	6.87	317
UUP	12/31/1997	1/23/1998	-1.21	23
UDN	1/23/1998	2/6/1998	-1.13	14
QQQQ	2/6/1998	9/4/1998	6.27	210
SH	8/21/1998	10/16/1998	0.23	56
UDN	9/4/1998	11/27/1998	1.22	84
QQQQ	10/16/1998	5/12/2000	161.28	574
SPY	11/13/1998	5/28/1999	15.01	196
EEM	11/27/1998	12/11/1998	-6.98	14
TLT	12/11/1998	2/5/1999	-1.54	56
EEM	2/5/1999	10/15/1999	26.44	252
UUP	5/28/1999	7/9/1999	1.90	42
DBC	7/9/1999	4/14/2000	28.34	280
SH	10/15/1999	10/29/1999	-8.70	14
SPY	10/29/1999	2/4/2000	4.08	98
EEM	2/4/2000	4/28/2000	-10.18	84
TLT	4/14/2000	4/28/2000	-1.90	14
DBC	4/28/2000	12/22/2000	14.86	238
UUP	4/28/2000	6/9/2000	-2.86	42
SH	5/12/2000	6/9/2000	-2.87	28
QQQQ	6/9/2000	8/4/2000	-3.87	56
TLT	6/9/2000	12/7/2001	16.70	546
UUP	8/4/2000	1/5/2001	-2.21	154
SH	12/22/2000	5/11/2001	2.45	140
UDN	1/5/2001	1/19/2001	-2.10	14
DBC	1/19/2001	3/2/2001	-4.84	42
UDN	3/2/2001	4/12/2001	-4.02	41
UUP	4/12/2001	8/31/2001	-1.97	141
EEM	5/11/2001	7/6/2001	-4.72	56
SH	7/6/2001	12/7/2001	0.99	154
UDN	8/31/2001	11/9/2001	-1.80	70
QQQQ	11/9/2001	1/18/2002	2.28	70
EEM	12/7/2001	6/21/2002	2.07	196
UDN	12/7/2001	12/21/2001	-0.69	14
SH	12/21/2001	1/4/2002	-2.39	14
SPY	1/4/2002	1/18/2002	-3.80	14
SH	1/18/2002	3/1/2002	-0.82	42
TLT	1/18/2002	3/15/2002	-2.75	56

<b>Ticker</b>	<b>Buy Date</b>	<b>Sell Date</b>	<b>% Change</b>	<b>Days Held</b>
UUP	8/4/2000	1/5/2001	-2.21	154
SH	12/22/2000	5/11/2001	2.45	140
UDN	1/5/2001	1/19/2001	-2.10	14
DBC	1/19/2001	3/2/2001	-4.84	42
UDN	3/2/2001	4/12/2001	-4.02	41
UUP	4/12/2001	8/31/2001	-1.97	141
EEM	5/11/2001	7/6/2001	-4.72	56
SH	7/6/2001	12/7/2001	0.99	154
UDN	8/31/2001	11/9/2001	-1.80	70
QQQQ	11/9/2001	1/18/2002	2.28	70
EEM	12/7/2001	6/21/2002	2.07	196
UDN	12/7/2001	12/21/2001	-0.69	14
SH	12/21/2001	1/4/2002	-2.39	14
SPY	1/4/2002	1/18/2002	-3.80	14
SH	1/18/2002	3/1/2002	-0.82	42
TLT	1/18/2002	3/15/2002	-2.75	56
UUP	3/1/2002	3/15/2002	-1.85	14
QQQQ	3/15/2002	4/26/2002	-16.63	42
SPY	3/15/2002	4/26/2002	-7.94	42
DBC	4/26/2002	11/8/2002	1.64	196
SH	4/26/2002	11/22/2002	9.47	210
UDN	6/21/2002	6/6/2003	15.51	350
TLT	11/8/2002	11/22/2002	-2.71	14
DBC	11/22/2002	3/28/2003	10.40	126
QQQQ	11/22/2002	12/6/2002	-4.51	14
TLT	12/6/2002	3/28/2003	1.83	112
QQQQ	3/28/2003	5/23/2003	7.75	56
SPY	3/28/2003	5/9/2003	8.10	42
EEM	5/9/2003	5/7/2004	44.23	364
DBC	5/23/2003	9/12/2003	0.86	112
QQQQ	6/6/2003	2/13/2004	22.60	252
SPY	9/12/2003	12/19/2003	6.30	98
DBC	12/19/2003	1/2/2004	-0.27	14
SPY	1/2/2004	7/16/2004	7.62	196
DBC	2/13/2004	12/3/2004	16.57	294
UUP	5/7/2004	6/4/2004	-2.87	28
UDN	6/4/2004	6/18/2004	-0.66	14
QQQQ	6/18/2004	7/16/2004	-4.86	28
SH	7/16/2004	9/10/2004	-2.34	56
TLT	7/16/2004	9/10/2004	1.88	56
EEM	9/10/2004	6/16/2006	60.27	644
SPY	9/10/2004	9/24/2004	-1.42	14
TLT	9/24/2004	11/5/2004	-1.81	42
QQQQ	11/5/2004	3/11/2005	-2.08	126
UDN	12/3/2004	1/14/2005	-2.59	42
DBC	1/14/2005	1/28/2005	-1.26	14
TLT	1/28/2005	2/25/2005	-0.49	28
DBC	2/25/2005	4/8/2005	2.05	42
UDN	3/11/2005	4/22/2005	-2.46	42
SPY	4/8/2005	4/22/2005	-2.06	14
SH	4/22/2005	5/20/2005	-3.24	28
TLT	4/22/2005	7/15/2005	2.73	84
UUP	5/20/2005	8/12/2005	0.46	84

Ticker	Buy Date	Sell Date	% Change	Days Held
DBC	7/15/2005	9/9/2005	1.97	56
QQQQ	8/12/2005	8/26/2005	-1.91	14
TLT	8/26/2005	10/7/2005	-2.78	42
QQQQ	9/9/2005	2/24/2006	39.30	168
UUP	10/7/2005	12/30/2005	2.29	84
SPY	12/30/2005	5/19/2006	2.08	140
DBC	2/24/2006	9/22/2006	-1.02	210
UDN	5/19/2006	10/20/2006	-1.79	154
SH	6/16/2006	7/28/2006	-1.20	42
EEM	7/28/2006	9/8/2006	-0.96	42
SPY	9/8/2006	7/27/2007	11.38	322
TLT	9/22/2006	12/1/2006	2.02	70
QQQQ	10/20/2006	4/5/2007	6.10	167
EEM	12/1/2006	1/18/2008	23.81	413
DBC	4/5/2007	4/20/2007	0.67	15
QQQQ	4/20/2007	8/10/2007	4.14	112
DBC	7/27/2007	8/24/2007	-2.47	28
SH	8/10/2007	8/24/2007	-2.32	14
QQQQ	8/24/2007	11/16/2007	4.32	84
UDN	8/24/2007	9/7/2007	0.87	14
DBC	9/7/2007	8/8/2008	42.11	336
TLT	11/16/2007	2/22/2008	-0.48	98
SH	1/18/2008	4/18/2008	-5.67	91
UDN	2/22/2008	5/2/2008	2.57	70
TLT	4/18/2008	5/2/2008	-1.25	14
EEM	5/2/2008	5/30/2008	1.10	28
QQQQ	5/2/2008	6/13/2008	-0.82	42
SH	5/30/2008	8/22/2008	7.43	84
UDN	6/13/2008	8/8/2008	-2.42	56
QQQQ	8/8/2008	9/19/2008	-9.34	42
UUP	8/8/2008	4/3/2009	7.27	238
SPY	8/22/2008	9/5/2008	-4.03	14
TLT	9/5/2008	4/17/2009	6.51	224
SH	9/19/2008	4/3/2009	6.32	196
EEM	4/3/2009	2/5/2010	36.01	308
QQQQ	4/3/2009	7/9/2010	37.93	462
SPY	4/17/2009	6/26/2009	5.47	70
DBC	6/26/2009	7/10/2009	-9.07	14
UDN	7/10/2009	8/7/2009	1.68	28
SPY	8/7/2009	5/28/2010	8.07	294
UUP	2/5/2010	3/5/2010	-0.08	28
DBC	3/5/2010	4/16/2010	1.29	42
EEM	4/16/2010	5/14/2010	-6.99	28
UUP	5/14/2010	7/23/2010	-4.76	70
TLT	5/28/2010	10/15/2010	3.91	140
EEM	7/9/2010	3/4/2011	17.34	238
QQQQ	7/23/2010	8/20/2010	-2.48	28
SH	8/20/2010	10/1/2010	-7.12	42
QQQ	10/1/2010	6/10/2011	11.49	252
DBC	10/15/2010	9/16/2011	16.20	336
SPY	3/4/2011	6/10/2011	-3.68	98
TLT	6/10/2011	7/8/2011	-1.82	28
UDN	6/10/2011	9/16/2011	-2.03	98
QQQ	7/8/2011	8/5/2011	-8.81	28

\* excludes a \$11.98 distribution

<b>Ticker</b>	<b>Buy Date</b>	<b>Sell Date</b>	<b>% Change</b>	<b>Days Held</b>
TLT	8/5/2011	3/2/2012	14.49	210
QQQ	9/16/2011	11/25/2011	-6.56	70
UUP	9/16/2011	10/28/2011	-2.67	42
UDN	10/28/2011	11/11/2011	-2.48	14
SPY	11/11/2011	11/25/2011	-8.15	14
SH	11/25/2011	1/6/2012	-10.20	42
UUP	11/25/2011	2/3/2012	-1.74	70
QQQ	1/6/2012	10/12/2012	15.34	280
EEM	2/3/2012	4/27/2012	-3.58	84
SPY	3/2/2012	10/10/2014	38.77	952
TLT	4/27/2012	8/17/2012	3.67	112
DBC	8/17/2012	10/26/2012	-2.37	70
EEM	10/12/2012	4/12/2013	1.55	182
TLT	10/26/2012	11/23/2012	1.30	28
DBC	11/23/2012	1/4/2013	-1.92	42
QQQ	1/4/2013	2/1/2013	1.55	28
DBC	2/1/2013	3/1/2013	-5.74	28
UUP	3/1/2013	8/16/2013	-2.05	168
QQQ	4/12/2013	4/11/2014	20.26	364
UDN	8/16/2013	12/6/2013	1.31	112
EEM	12/6/2013	1/17/2014	-5.13	42
TLT	1/17/2014	7/3/2014	4.93	167
EEM	4/11/2014	9/26/2014	2.24	168
QQQ	7/3/2014	8/28/2015	10.37	421
UUP	9/26/2014	4/10/2015	14.78	196
TLT	10/10/2014	5/8/2015	2.03	210
SPY	4/10/2015	4/24/2015	0.76	14
EEM	4/24/2015	7/2/2015	-9.26	69
SPY	5/8/2015	8/28/2015	-5.83	112
UUP	7/2/2015	10/9/2015	-1.79	99
SH	8/28/2015	10/23/2015	-5.12	56
UDN	8/28/2015	10/23/2015	-1.00	56
QQQ	10/9/2015	1/15/2016	-5.34	98
SPY	10/23/2015	12/18/2015	-3.61	56
UUP	10/23/2015	3/11/2016	-1.38	140
TLT	12/18/2015	8/12/2016	13.67	238
SH	1/15/2016	2/16/2016	-1.28	32
SPY	2/16/2016	5/20/2016	8.27	94
EEM	3/11/2016	4/8/2016	0.72	28
QQQ	4/8/2016	4/22/2016	-0.02	14
EEM	4/22/2016	5/6/2016	-5.44	14
UDN	5/6/2016	7/1/2016	-2.09	56
DBC	5/20/2016	7/29/2016	-2.59	70
EEM	7/1/2016	12/2/2016	1.24	154
QQQ	7/29/2016	11/2/2018	46.99	826
SPY	8/12/2016	10/7/2016	-1.57	56
DBC	10/7/2016	11/18/2016	-3.36	42
UUP	11/18/2016	1/13/2017	-0.11	56
SPY	12/2/2016	8/11/2017	11.13	252
DBC	1/13/2017	3/10/2017	-6.17	56
UUP	3/10/2017	4/21/2017	-1.30	42
EEM	4/21/2017	4/6/2018	22.00	350
UDN	8/11/2017	10/20/2017	-0.98	70
SPY	10/20/2017	3/23/2018	0.37	154
DBC	3/23/2018	7/13/2018	0.41	112

<b>Ticker</b>	<b>Buy Date</b>	<b>Sell Date</b>	<b>% Change</b>	<b>Days Held</b>
UDN	4/6/2018	5/4/2018	-2.89	28
SPY	5/4/2018	6/29/2018	1.98	56
UUP	6/29/2018	2/8/2019	3.13	224
SPY	7/13/2018	11/16/2018	-2.10	126
SH	11/2/2018	2/8/2019	-0.48	98
UDN	11/16/2018	11/30/2018	-0.66	14
SPY	11/30/2018	12/14/2018	-5.51	14
TLT	12/14/2018	11/15/2019	16.27	336
EEM	2/8/2019	3/22/2019	0.65	42
SPY	2/8/2019	3/8/2019	1.48	28
UUP	3/8/2019	4/5/2019	0.27	28
QQQ	3/22/2019	3/20/2020	-4.40	364
EEM	4/5/2019	5/17/2019	-9.45	42
SPY	5/17/2019	5/31/2019	-3.70	14
SH	5/31/2019	6/14/2019	-4.70	14
SPY	6/14/2019	8/23/2019	-1.52	70
UUP	8/23/2019	10/18/2019	0.11	56
SPY	10/18/2019	3/6/2020	-0.17	140
EEM	11/15/2019	11/29/2019	-1.40	14
TLT	11/29/2019	12/13/2019	-0.98	14
EEM	12/13/2019	3/6/2020	-7.73	84
SH	3/6/2020	4/17/2020	-4.73	42
TLT	3/6/2020	8/21/2020	-0.34	168
UUP	3/20/2020	5/1/2020	-4.25	42
QQQ	4/17/2020	1/21/2022	63.36	644
SPY	5/1/2020	7/10/2020	12.31	70
EEM	7/10/2020	7/19/2021	21.85	374
SPY	8/21/2020	1/21/2022	29.01	518
DBC	7/19/2021	8/20/2021	17.48	32
TLT	8/20/2021	10/1/2021	-3.45	42
DBC	10/1/2021	11/26/2021	7.44	56
TLT	11/26/2021	12/23/2021	-1.34	27
DBC	12/23/2021	11/25/2022	19.85	337
SH	1/21/2022	4/1/2022	-7.83	70
UUP	1/21/2022	11/11/2022	11.87	294
SPY	4/1/2022	4/29/2022	-9.03	28
SH	4/29/2022	8/5/2022	-2.21	98
QQQ	8/5/2022	9/2/2022	-8.26	28
SH	9/2/2022	11/11/2022	-2.65	70
QQQ	11/11/2022	12/23/2022	-7.15	42
SPY	11/11/2022			
UDN	11/25/2022	12/9/2022	0.93	14
EEM	12/9/2022			
UDN	12/23/2022			