Investment Strategies

Rolling 12 Month Returns Through June 30, 2022

Returns and Maximum Drawdown:

		US Market	Balanced	Nasdaq 100		
	Month	S&P 500	60/40	999	GPM	
	Jul 2021	2.44%	1.93%	2.86%	0.17%	
	Aug 2021	2.98%	1.71%	4.22%	0.87%	
	Sep 2021	-4.66%	-3.20%	-5.68%	-1.96%	
	Oct 2021	7.02%	4.24%	7.86%	1.00%	
	Nov 2021	-0.80%	-0.40%	2.00%	-2.06%	
	Dec 2021	4.63%	2.65%	1.15%	0.30%	
	Jan 2022	-5.27%	-3.99%	-8.75%	-1.86%	
	Feb 2022	-2.95%	-2.23%	-4.48%	-0.43%	
	Mar 2022	3.76%	1.16%	4.67%	-1.40%	
	Apr 2022	-8.78%	-6.85%	-13.60%	-0.50%	
ı	May 2022	0.23%	0.47%	-1.59%	0.60%	
	Jun 2022	-8.57%	-5.88%	-9.08%	-0.67%	
1:	2 Mo Rtrn:	-10.90%	-10.53%	-20.64%	-5.84%	
	Max DD:	-20.25%	-16.36%	-29.47%	-6.82%	
b/	(w) S&P 500:	0.0%	0.4%	-9.7%	5.1%	

GPM	GPMv	HedgeFundie	Profit Farmer	MAX PAIN
0.17%	1.96%	8.73%	11.76%	6.93%
0.87%	1.21%	4.32%	5.35%	8.97%
-1.96%	-2.03%	-11.83%	-13.82%	-13.94%
1.00%	4.65%	15.23%	18.86%	21.90%
-2.06%	-2.55%	1.84%	-1.99%	-2.71%
0.30%	1.29%	4.13%	8.51%	13.13%
-1.86%	-2.02%	-14.05%	-18.11%	-15.89%
-0.43%	-0.06%	-7.88%	-10.05%	-5.48%
-1.40%	0.05%	-1.89%	-13.75%	-6.38%
-0.50%	-1.13%	-25.96%	-13.18%	-25.41%
0.60%	0.03%	-4.74%	-12.14%	-7.94%
-0.67%	0.04%	-16.16%	-18.17%	-1.42%
-5.84%	1.23%	-43.87%	-49.14%	-32.22%
-6.82%	-4.39%	-54.07%	-60.34%	-49.62%
5.1%	12.1%	-33.0%	-38.2%	-21.3%

10,000

10,693

11,652

10,028

12,224

11,893

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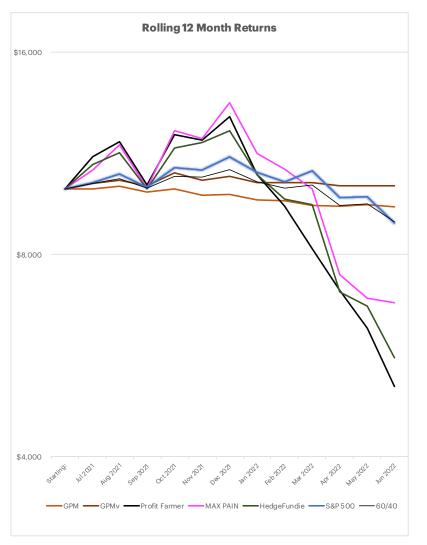
7,469

6,876

6,778

\$10,000 turns into:

1		US Market	Balanced	Nasdaq 100								
	Month	S&P 500	60/40	QQQ		GPM	GPMv	Не	dgeFundie	Pro	ofit Farmer	M
	Starting:	\$ 10,000	\$ 10,000	\$ 10,000	\$	10,000	\$ 10,000	\$	10,000	\$	10,000	\$
	Jul 2021	\$ 10,244	\$ 10,193	\$ 10,286	\$	10,017	\$ 10,196	\$	10,873	\$	11,176	\$
	Aug 2021	\$ 10,549	\$ 10,368	\$ 10,720	\$	10,105	\$ 10,319	\$	11,342	\$	11,774	\$
	Sep 2021	\$ 10,058	\$ 10,036	\$ 10,111	\$	9,907	\$ 10,110	\$	10,001	\$	10,147	\$
	Oct 2021	\$ 10,764	\$ 10,461	\$ 10,906	\$	10,006	\$ 10,580	\$	11,524	\$	12,060	\$
	Nov 2021	\$ 10,678	\$ 10,420	\$ 11,124	\$	9,800	\$ 10,310	\$	11,736	\$	11,820	\$
	Dec 2021	\$ 11,172	\$ 10,696	\$ 11,252	\$	9,829	\$ 10,443	\$	12,220	\$	12,826	\$
	Jan 2022	\$ 10,583	\$ 10,270	\$ 10,267	\$	9,647	\$ 10,232	\$	10,503	\$	10,504	\$
	Feb 2022	\$ 10,271	\$ 10,041	\$ 9,807	\$	9,605	\$ 10,226	\$	9,675	\$	9,448	\$
	Mar 2022	\$ 10,657	\$ 10,157	\$ 10,265	\$	9,471	\$ 10,231	\$	9,492	\$	8,149	\$
	Apr 2022	\$ 9,722	\$ 9,461	\$ 8,870	\$	9,423	\$ 10,115	\$	7,028	\$	7,075	\$
	May 2022	\$ 9,744	\$ 9,506	\$ 8,729	\$	9,480	\$ 10,118	\$	6,695	\$	6,216	\$
	Jun 2022	\$ 8,910	\$ 8,947	\$ 7,936	\$	9,416	\$ 10,123	\$	5,613	\$	5,086	\$



Investment Strategies

1980 through June 30, 2022

Annual returns:

Annual retu	rns:							
		Benchmark	(S			Dual Momentu	m	
	US Market	Balanced	Nasdaq 100					
Year End	S&P 500	60/40	999	GPM	GPMv	HedgeFundie	MAX PAIN	Profit Farmer
1980	32.49%	21.02%	33.38%	9.08%	12.65%	45.72%	112.85%	0.00%
1981	-4.90%	0.07%	-0.63%	6.69%	14.01%	-13.21%	17.16%	0.00%
1982	21.55%	25.68%	18.20%	31.54%	31.37%	104.69%	134.42%	0.00%
1983	22.55%	16.21%	19.58%	5.36%	7.49%	33.46%	107.36%	0.00%
1984	6.25%	9.84%	-13.19%	10.74%	18.76%	25.80%	8.11%	0.00%
1985	31.23%	27.65%	32.38%	28.39%	30.22%	122.87%	87.51%	0.00%
1986	18.05%	17.65%	10.83%	48.74%	46.84%	68.99%	37.57%	0.00%
1987	4.68%	4.81%	-11.38%	16.42%	21.42%	-2.02%	-45.08%	-18.83%
1988	16.22%	12.64%	19.47%	6.55%	9.15%	37.21%	23.23%	56.44%
1989	31.38%	24.20%	19.49%	16.78%	18.20%	86.89%	73.31%	30.16%
1990	-3.32%	1.56%	-17.55%	7.15%	3.24%	-4.70%	-31.86%	-17.86%
1991	30.22%	24.30%	46.97%	13.97%	13.22%	90.44%	89.45%	166.45%
1992	7.40%	7.35%	21.54%	9.41%	11.06%	23.25%	23.14%	53.18%
1993	9.58%	9.66%	15.37%	13.01%	14.43%	40.42%	44.23%	63.89%
1994	0.38%	-0.77%	-3.66%	-2.88%	-1.98%	-10.94%	-15.76%	-22.12%
1995	38.05%	29.81%	42.46%	24.20%	25.49%	133.08%	96.18%	120.13%
1996	22.51%	14.70%	23.41%	9.65%	13.58%	33.24%	24.90%	16.68%
1997	33.49%	23.58%	21.27%	9.79%	10.89%	78.35%	73.59%	85.81%
1998	28.69%	21.01%	32.17%	12.06%	17.43%	71.42%	4.10%	25.04%
1999	20.39%	11.65%	80.58%	12.89%	22.18%	14.82%	12.88%	61.90%
2000	-9.74%	-1.49%	-28.93%	7.93%	16.41%	2.12%	58.06%	98.51%
2001	-11.75%	-3.81%	-25.59%	7.21%	5.66%	-18.16%	5.80%	22.72%
2002	-21.59%	-9.80%	-29.86%	11.99%	15.38%	-20.45%	19.08%	-6.68%
2003	28.16%	18.19%	41.08%	6.27%	11.64%	49.04%	222.74%	163.96%
2004	10.71%	8.00%	9.84%	4.55%	9.76%	29.13%	39.62%	44.50%
2005	4.83%	3.87%	4.49%	10.61%	11.39%	20.71%	-8.55%	52.20%
2006	15.84%	10.95%	8.27%	13.73%	13.97%	24.73%	55.90%	57.12%
2007	5.14%	5.94%	9.44%	11.11%	9.72%	19.86%	9.98%	-19.18%
2008	-36.81%	-21.86%	-42.67%	12.83%	13.16%	-42.86%	48.69%	17.52%
2009	26.38%	18.66%	45.53%	3.80%	7.42%	-4.88%	23.19%	5.06%
2010	15.06%	12.04%	18.51%	9.91%	16.20%	43.94%	38.95%	21.52%
2010	1.88%	4.38%	-1.14%	25.62%	26.93%	45.73%	60.10%	80.37%
2012	16.00%	11.39%	15.46%	4.55%	4.04%	31.69%	47.10%	11.19%
2012	32.31%	17.44%	35.69%	6.55%	12.07%	29.66%	149.93%	114.09%
2013	13.48%	10.56%	16.11%	8.37%	9.74%	64.08%	27.61%	56.48%
						-2.45%	-17.34%	
2015	1.26%	1.11%	6.50%	-0.67%	-3.17%			4.30%
2016	12.00%	8.34%	7.39%	4.23%	3.67%	19.88%	58.20%	50.27%
2017	21.71%	14.26%	27.28%	10.21%	13.20%	51.13%	23.68%	61.33%
2018	-4.56%	-2.47%	-1.10%	5.57%	3.26%	-13.56%	8.78%	7.79%
2019	31.23%	21.98%	28.83%	10.23%	10.15%	81.31%	27.64%	21.26%
2020	18.39%	14.93%	43.75%	12.76%	10.91%	49.80%	120.14%	101.69%
2021	28.76%	15.74%	27.41%	4.07%	11.90%	36.12%	82.82%	108.84%
2022	-20.25%	-16.36%	-29.47%	-4.20%	-3.07%	-54.07%	-49.62%	-60.34%
+/- S&P YTD:	0.0%	3.9%	-9.2%	16.0%	17.2%	-33.8%	-29.4%	-40.1%
CAGR	11.4%	9.8%	10.7%	10.9%	13.0%	26.7%	35.9%	0.0%

Sort of a highly leverged 60/40 Portfolio as prescribed by HedgeFundie on Bogleheads

Investment selection for July 2022:

55% UPRO 45% TMF

Tax friendliness:

HedgeFundie unsure of short/long term taxes

Months between change of holdings

HedgeFundie as tracked here is rebalanced monthly.

Portfolio size appropriateness:

Whale, HedgeFundie can be used for any sized portfolio.

Characteristics:

Drawdowns: HedgeFundie has frequent and massive drawdowns.

Volatility: **HedgeFundie** is extremely volatile.

Returns: HedgeFundie has superior historical returns compared to the S&P 500.

HedgeFundie has is always leveraged with 3X ETF's

Strategy Description:

HedgeFundie's Excellent Adventure threads on the Boglehead's forum has been active since 1st posted. HedgeFundie left after some point, tired of defending the strategy and being attacked, the strategy lives on. I track it out of curiosity, even though I find it to be a terrible strategy given it's performance adjusted metrics. People can dream.

Strategy Components

UPRO 3X S&P 500

TMF 3X Long Term Treasuries

Metric	2000+	1980+
Beta	1.41	1.68
Alpha	5.32%	7.61%

Annualized Returnsactual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
HedgeFundie	-54.07%	-43.87%	4.37%	12.48%	19.34%	14.02%	26.72%
Balanced 60/40	-16.36%	-10.53%	6.13%	7.26%	8.42%	5.67%	9.83%
S&P 500	-20.25%	-10.90%	10.47%	11.16%	12.83%	6.21%	11.41%

Maximum Drawdrown single largest drawdown.

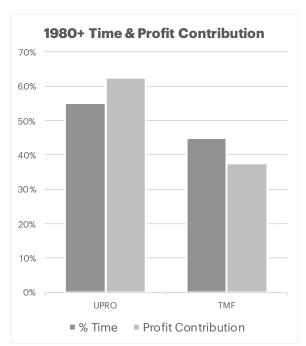
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
HedgeFundie	-54.07%	-54.07%	-54.07%	-54.07%	-54.07%	-69.09%	-69.09%
Balanced 60/40	-16.36%	-16.36%	-16.36%	-16.36%	-16.36%	-32.33%	-32.33%
S&P 500	-20.25%	-20.25%	-20.25%	-20.25%	-20.25%	-50.79%	-50.79%

Ulcer Index the higher the number the more painful downside volatility. Considers all downside not just maximum.

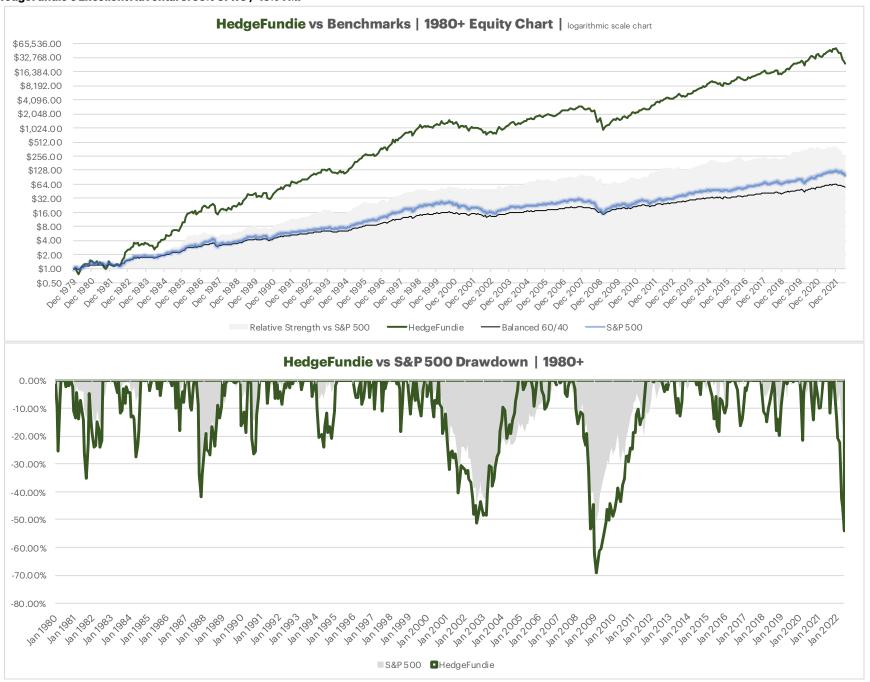
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
HedgeFundie	33.60	24.87	15.60	13.26	10.48	22.15	17.74
Balanced 60/40	9.29	6.87	4.69	3.97	2.94	7.67	5.98
S&P 500	11.06	8.22	6.35	5.67	4.28	16.70	12.89

Sortino Ratio, risk adjusted performance measure - bigger number is better.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
HedgeFundie	(2.98)	(1.70)	(0.37)	(0.18)	(0.00)	0.82	1.50
Balanced 60/40	(2.91)	(2.17)	(1.29)	(1.33)	(1.51)	0.65	1.35
S&P 500	(2.66)	(1.70)	(0.63)	(0.65)	(0.72)	0.51	1.03



HedgeFundie's Excellent Adventure: 55% UPRO / 45% TMF



Investment selection for July 2022:

EDV. Extended Duration Treasuries

Tax friendliness:

MAX PAINhas mostly Short Term Cap Gains.

Months between change of holdings

MAX PAIN changes it's holdings every 2.5 months on average.

Portfolio size appropriateness:

Small Fry, MAX PAIN is only suitable for < \$500,000 allocations.

Characteristics:

Drawdowns: MAX PAIN has frequent and larger drawdowns than the S&P.

Volatility: MAX PAIN is far more volatile than the S&P over time.

Returns: MAX PAIN has incredibly huge historical returns compared to the S&P 500. Leverage: MAX PAIN has a maximum leverage of 300% and average leverage of: 258%

Strategy Description:

MAX PAIN invests in the United States, going into the 3X leveraged version of the best performer of the Russell 1000, Russell MidCap Growth, or Russell Small Cap. When these markets aren't experiencing positive momentum the strategy goes into 3X Long Term Treasuries. This is an extremely high return strategy with equally high volatility and frequent drawdowns, know what you're getting into.

Strategy Components

URTY 3X Russell 2000, MIDU 3X S&P MidCap 400, UPRO 3X S&P 500 TMF 3X Long Term Treasuries, 1st month in treasuries

EDV Extended Duration Treasuries, subsequent months in treasuries

Metric	2000+	1980+
Beta	1.04	1.60
Alpha	30.69%	17.75%

Annualized Returns actual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	-49.62%	-32.22%	37.95%	27.89%	33.11%	37.17%	35.89%
Balanced 60/40	-16.36%	-10.53%	6.13%	7.26%	8.42%	5.67%	9.83%
S&P 500	-20.25%	-10.90%	10.47%	11.16%	12.83%	6.21%	11.41%

Maximum Drawdrown, single largest drawdown.

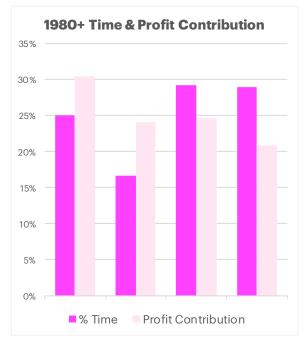
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	-49.62%	-49.62%	-49.62%	-49.62%	-49.62%	-49.62%	-67.06%
Balanced 60/40	-16.36%	-16.36%	-16.36%	-16.36%	-16.36%	-32.33%	-32.33%
S&P 500	-20.25%	-20.25%	-20.25%	-20.25%	-20.25%	-50.79%	-50.79%

Ulcer Index the higher the number the more painful downside volatility. Considers all downside not just maximum.

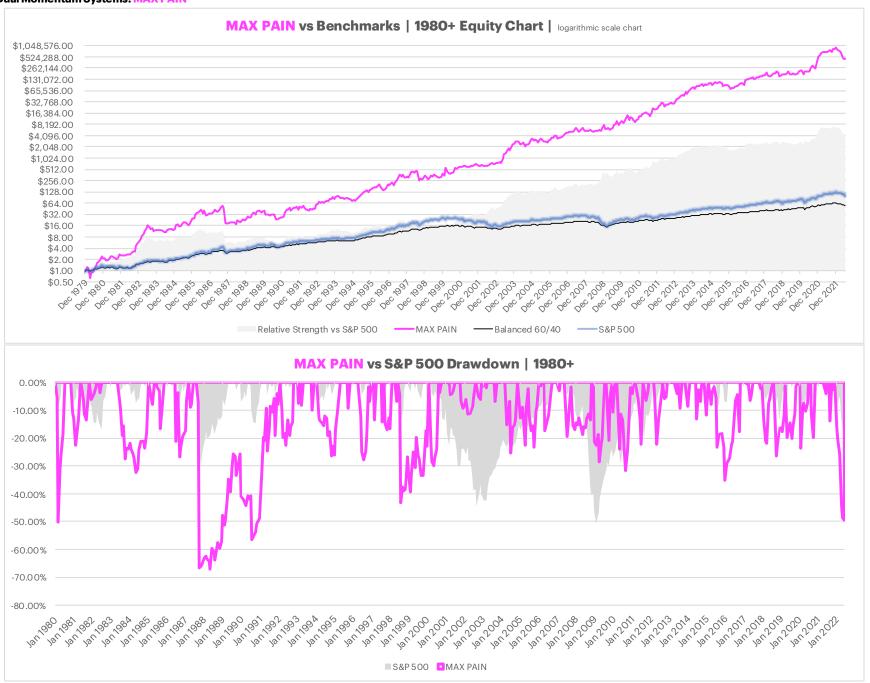
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	34.14	25.36	16.31	15.67	13.80	12.83	19.81
Balanced 60/40	9.29	6.87	4.69	3.97	2.94	7.67	5.98
S&P 500	11.06	8.22	6.35	5.67	4.28	16.70	12.89

Sortino Ratio, risk adjusted performance measure - bigger number is better.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	(2.90)	(1.26)	0.83	0.49	0.63	1.79	1.58
Balanced 60/40	(2.91)	(2.17)	(1.29)	(1.33)	(1.51)	0.65	1.35
S&P 500	(2.66)	(1.70)	(0.63)	(0.65)	(0.72)	0.51	1.03



Dual Momentum Systems: MAX PAIN



A Minimum Variance Adaptive Asset Allocation strategy by Private Farmer

Strategy Description:

Profit Farmer is a Minimum Variance Adaptive Asset Allocation strategy, it is not a DMS strategy, but created by a friend of DMS. I track it because I have an allocation to it myself. Profit Farmer is always leveraged to 300%.

Tax friendliness:

Profit Farmer has all Short Term Cap Gains.

Months between change of holdings

Profit Farmerchanges it's holdings virtually every month.

Portfolio size appropriateness:

Small Fry, Profit Farmer is only suitable for < \$500,000 allocations.

Characteristics:

Drawdowns: Profit Farmerhas frequent and larger drawdowns than the S&P.

Volatility: Profit Farmer is far more volatile than the S&P over time.

Returns: Profit Farmerhas incredibly huge historical returns compared to the S&P 500.

Strategy Components

EDC 3X Emerging Markets URTY 3X Russell 2000 TQQQ 3X Nasdaq 100 TMF 3X Long Term Treasuries DRN 3X Real Estate

Metric	2000+	05/1987+
Beta	1.26	1.32
Alpha	27.75%	28.84%

Annualized Returns actual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	05/1987+
Profit Farmer	-60.34%	-49.14%	18.87%	19.17%	33.12%	35.51%	36.97%
MAX PAIN	-49.62%	-32.22%	37.95%	27.89%	33.11%	37.17%	30.70%
S&P 500	-20.25%	-10.90%	10.47%	11.16%	12.83%	6.21%	9.81%

Maximum Drawdrown single largest drawdown.

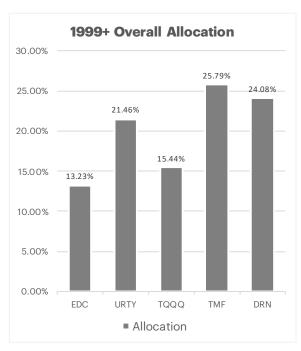
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	05/1987+
Profit Farmer	-60.34%	-60.34%	-60.34%	-60.34%	-60.34%	-60.34%	-60.34%
MAX PAIN	-49.62%	-49.62%	-49.62%	-49.62%	-49.62%	-49.62%	-67.06%
S&P 500	-20.25%	-20.25%	-20.25%	-20.25%	-20.25%	-50.79%	-50.79%

Ulcer Index the higher the number the more painful downside volatility. Considers all downside not just maximum.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	05/1987+
Profit Farmer	39.02	28.90	18.24	15.68	12.08	15.89	14.69
MAX PAIN	34.14	25.36	16.31	15.67	13.80	12.83	20.70
S&P 500	11.06	8.22	6.35	5.67	4.28	16.70	13.98

Sortino Ratio, risk adjusted performance measure - bigger number is better.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	05/1987+
Profit Farmer	(3.41)	(1.82)	0.17	0.12	0.59	1.58	1.72
MAX PAIN	(2.90)	(1.26)	0.83	0.49	0.63	1.79	1.40
S&P 500	(2.66)	(1.70)	(0.63)	(0.65)	(0.72)	0.51	0.85



Strategy by Private Farmer

