Investment Strategies

Rolling 12 Month Returns Through June 21, 2022

Returns and Maximum Drawdown:

Month	US Market S&P 500	Balanced 60/40	Nasdaq 100	GPM	GPMv	HedgeFund
Jul 2021	2.44%	1.93%	2.86%	0.17%	1.96%	8.73%
Aug 2021	2.98%	1.71%	4.22%	0.87%	1.21%	4.32%
Sep 2021	-4.66%	-3.20%	-5.68%	-1.96%	-2.03%	-11.83%
Oct 2021	7.02%	4.24%	7.86%	1.00%	4.65%	15.23%
Nov 2021	-0.80%	-0.40%	2.00%	-2.06%	-2.55%	1.84%
Dec 2021	4.63%	2.65%	1.15%	0.30%	1.29%	4.13%
Jan 2022	-5.27%	-3.99%	-8.75%	-1.86%	-2.02%	-14.05%
Feb 2022	-2.95%	-2.23%	-4.48%	-0.43%	-0.06%	-7.88%
Mar 2022	3.76%	1.16%	4.67%	-1.40%	0.05%	-1.89%
Apr 2022	-8.78%	-6.85%	-13.60%	-0.50%	-1.13%	-25.96%
May 2022	0.23%	0.47%	-1.59%	0.60%	0.03%	-4.74%
Jun 2022	-11.40%	-8.06%	-10.90%	-1.16%	-0.01%	-22.10%
12 Mo Rtrn:	-13.67%	-12.61%	-22.22%	-6.31%	1.17%	-47.85%
Max DD:	-22.72%	-18.29%	-30.88%	-7.28%	-4.39%	-57.32%
b/(w) S&P 500:	0.0%	1.1%	-8.6%	7.4%	14.8%	-34.2%

\$10,000 turns into:

	US Market	Balanced	Nasdaq 100	
Month	S&P 500	0 60/40 000		
Starting:	\$ 10,000	\$ 10,000	\$ 10,000	
Jul 2021	\$ 10,244	\$ 10,193	\$ 10,286	
Aug 2021	\$ 10,549	\$ 10,368	\$ 10,720	
Sep 2021	\$ 10,058	\$ 10,036	\$ 10,111	
Oct 2021	\$ 10,764	\$ 10,461	\$ 10,906	
Nov 2021	\$ 10,678	\$ 10,420	\$ 11,124	
Dec 2021	\$ 11,172	\$ 10,696	\$ 11,252	
Jan 2022	\$ 10,583	\$ 10,270	\$ 10,267	
Feb 2022	\$ 10,271	\$ 10,041	\$ 9,807	
Mar 2022	\$ 10,657	\$ 10,157	\$ 10,265	
Apr 2022	\$ 9,722	\$ 9,461	\$ 8,870	
May 2022	\$ 9,744	\$ 9,506	\$ 8,729	
Jun 2022	\$ 8,633	\$ 8,739	\$ 7,778	

GPM	GPMv	Не	edgeFundie	Pre	ofit Farmer	M	AX PAIN
\$ 10,000	\$ 10,000	\$	10,000	\$	10,000	\$	10,000
\$ 10,017	\$ 10,196	\$	10,873	\$	11,176	\$	10,693
\$ 10,105	\$ 10,319	\$	11,342	\$	11,774	\$	11,652
\$ 9,907	\$ 10,110	\$	10,001	\$	10,147	\$	10,028
\$ 10,006	\$ 10,580	\$	11,524	\$	12,060	\$	12,224
\$ 9,800	\$ 10,310	\$	11,736	\$	11,820	\$	11,893
\$ 9,829	\$ 10,443	\$	12,220	\$	12,826	\$	13,454
\$ 9,647	\$ 10,232	\$	10,503	\$	10,504	\$	11,316
\$ 9,605	\$ 10,226	\$	9,675	\$	9,448	\$	11,271
\$ 9,471	\$ 10,231	\$	9,492	\$	8,149	\$	11,111
\$ 9,423	\$ 10,115	\$	7,028	\$	7,075	\$	8,287
\$ 9,480	\$ 10,118	\$	6,695	\$	6,216	\$	8,334
\$ 9,369	\$ 10,117	\$	5,215	\$	4,777	\$	8,238

Profit Farmer

5.35%

-13.82%

18.86%

-1.99%

8.51%

-18.11%

-10.05%

-13.75% -13.18%

-12.14%

-23.15%

-52.23%

-62.76%

-38.6%

6.93%

8.97%

-13.94%

21.90%

-2.71%

13.13%

-15.89%

-0.40% -1.42%

-25.41%

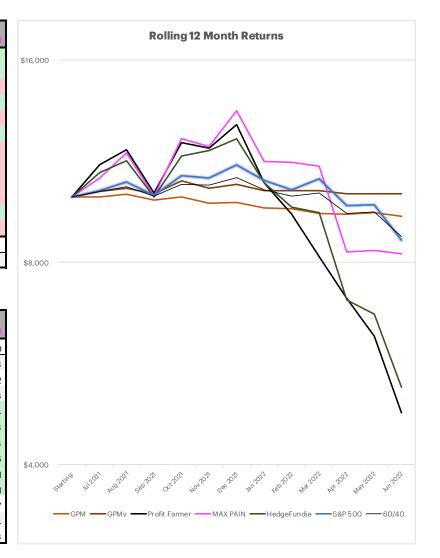
0.56%

-1.15%

-17.62%

-38.77%

-4.0%



Investment Strategies

1980 through June 21, 2022

Annual returns:

Annuairetu	Benchmarks			Dual Momentum					
	US Market	Balanced	Nasdaq 100			Dual Momentu			
Year End	S&P 500	60/40	QQQ	GPM	GPMv	HedgeFundie	MAXPAIN	Profit Farmer	
1980	32.49%	21.02%	33.38%	9.08%	12.65%	45.72%	58.31%	0.00%	
1981	-4.90%	0.07%	-0.63%	6.69%	14.01%	-13.21%	35.37%	0.00%	
1982	21.55%	25.68%	18.20%	31.54%	31.37%	104.69%	107.20%	0.00%	
1983	22.55%	16.21%	19.58%	5.36%	7.49%	33.46%	107.20%	0.00%	
1984	6.25%	9.84%	-13.19%	10.74%	18.76%	25.80%	102.32%	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%	-45.93%	-18.83%	
1988	16.22%	12.64%	19.47%	6.55%	9.15%	37.21%	12.34%	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%	-39.42%	-17.86%	
1991	30.22%	24.30%	46.97%	13.97%	13.22%	90.44%	61.96%	166.45%	
1992	7.40%	7.35%	21.54%	9.41%	11.06%	23.25%	11.92%	53.18%	
1993	9.58%	9.66%	15.37%	13.01%	14.43%	40.42%	44.23%	63.89%	
1993	0.38%	-0.77%	-3.66%	-2.88%	-1.98%	-10.94%	-18.10%	-22.12%	
1995	38.05%	29.81%	42.46%	24.20%	25.49%	133.08%	96.18%	120.13%	
1995	22.51%	14.70%	23.41%	9.65%	13.58%	33.24%	26.50%	16.68%	
1996	33.49%	23.58%	23.41%	9.79%	10.89%	78.35%	73.59%	85.81%	
1997	28.69%	23.36%	32.17%	12.06%	17.43%	71.42%	-2.07%	25.04%	
1996	20.39%	11.65%	80.58%	12.06%	22.18%	14.82%	12.88%	61.90%	
2000	-9.74%	-1.49%	-28.93%	7.93%	16.41%	2.12%	44.81%	98.51%	
2000	-9.74% -11.75%	-3.81%	-26.93 <i>%</i> -25.59%	7.93%	5.66%	-18.16%	7.80%	22.72%	
2001	-21.59%	-9.80%	-25.59%	11.99%	15.38%	-20.45%	7.80%	-6.68%	
2002	28.16%	18.19%	41.08%	6.27%	11.64%	49.04%	220.46%	163.96%	
2003	10.71%	8.00%	9.84%	4.55%	9.76%	29.13%	21.34%	44.50%	
2004	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%	42.84%	57.12%	
2007	5.14%	5.94%	9.44%	11.11%	9.72%	19.86%	8.01%	-19.18%	
2008	-36.81%	-21.86%	-42.67%	12.83%	13.16%	-42.86%	6.67%	17.52%	
2009	26.38%	18.66%	45.53%	3.80%	7.42%	-4.88%	73.35%	5.06%	
2010	15.06%	12.04%	18.51%	9.91%	16.20%	43.94%	32.07%	21.52%	
2011	1.88%	4.38%	-1.14%	25.62%	26.93%	45.73%	-0.50%	80.37%	
2012	16.00%	11.39%	15.46%	4.55%	4.04%	31.69%	47.10%	11.19%	
2013	32.31%	17.44%	35.69%	6.55%	12.07%	29.66%	149.93%	114.09%	
2014	13.48%	10.56%	16.11%	8.37%	9.74%	64.08%	27.61%	56.48%	
2015	1.26%	1.11%	6.50%	-0.67%	-3.17%	-2.45%	-21.41%	4.30%	
2016	12.00%	8.34%	7.39%	4.23%	3.67%	19.88%	45.79%	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%	-3.16%	7.79%	
2019	31.23%	21.98%	28.83%	10.23%	10.15%	81.31%	19.00%	21.26%	
2020	18.39%	14.93%	43.75%	12.76%	10.91%	49.80%	90.18%	101.69%	
2021	28.76%	15.74%	27.41%	4.07%	11.90%	36.12%	82.82%	108.84%	
2022	-22.72%	-18.29%	-30.88%	-4.68%	-3.12%	-57.32%	-38.77%	-62.76%	
+/- S&P YTD:	0.0%	4.4%	-8.2%	18.0%	19.6%	-34.6%	-16.0%	-40.0%	
CAGR	11.3%	9.8%	10.7%	10.8%	13.0%	26.5%	29.5%	0.0%	

USA Momentum Rotational always using triple leverage

Investment selection for July 2022:

VGSH. Short Term Treasuries

Tax friendliness:

MAX PAIN has mostly Short Term Cap Gains.

Months between change of holdings

MAX PAIN changes it's holdings every 2.8 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: 299%

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	1.26	1.63
Alpha	22.41%	11.18%

Annualized Returnsactual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	-38.77%	-17.62%	40.21%	24.42%	29.57%	30.00%	29.54%
Balanced 60/40	-18.29%	-12.61%	5.31%	6.76%	8.17%	5.56%	9.77%
S&P 500	-22.72%	-13.67%	9.32%	10.46%	12.47%	6.06%	11.33%

Maximum Drawdrown single largest drawdown.

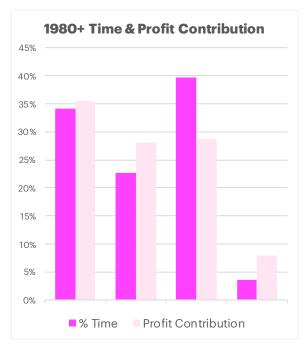
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	-38.77%	-38.77%	-38.77%	-38.77%	-38.77%	-38.77%	-67.45%
Balanced 60/40	-18.29%	-18.29%	-18.29%	-18.29%	-18.29%	-32.33%	-32.33%
S&P 500	-22.72%	-22.72%	-22.72%	-22.72%	-22.72%	-50.79%	-50.79%

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

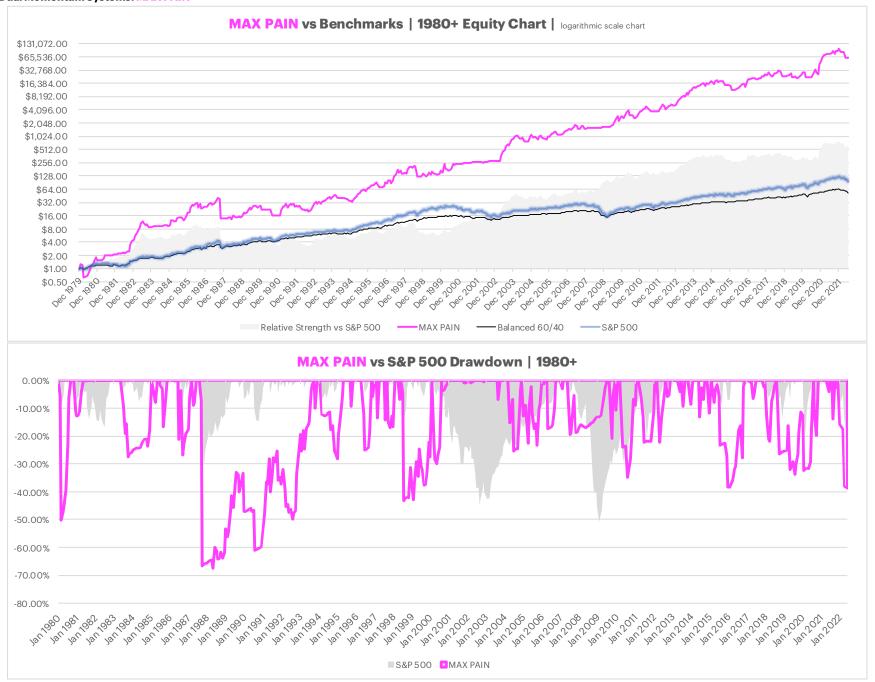
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	27.37	20.47	15.24	19.40	17.27	15.11	23.11
Balanced 60/40	9.79	7.24	4.88	4.11	3.04	7.69	5.99
S&P 500	11.72	8.70	6.57	5.82	4.39	16.71	12.90

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

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Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	(2.32)	(0.78)	1.00	0.47	0.62	1.59	1.40
Balanced 60/40	(2.82)	(2.05)	(1.13)	(1.15)	(1.28)	0.66	1.36
S&P 500	(2.58)	(1.61)	(0.52)	(0.52)	(0.54)	0.51	1.04



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 Farmeris 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	1.27	1.32
Alpha	27.50%	28.75%

Annualized Returnsactual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	05/1987+
Profit Farmer	-62.76%	-52.23%	16.41%	17.68%	32.29%	35.14%	36.72%
MAX PAIN	-38.77%	-17.62%	40.21%	24.42%	29.57%	30.00%	24.32%
S&P 500	-22.72%	-13.67%	9.32%	10.46%	12.47%	6.06%	9.71%

Maximum Drawdrown single largest drawdown.

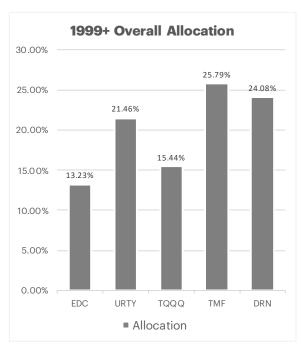
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	05/1987+
Profit Farmer	-62.76%	-62.76%	-62.76%	-62.76%	-62.76%	-62.76%	-62.76%
MAX PAIN	-38.77%	-38.77%	-38.77%	-38.77%	-38.77%	-38.77%	-67.45%
S&P 500	-22.72%	-22.72%	-22.72%	-22.72%	-22.72%	-50.79%	-50.79%

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	39.56	29.29	18.46	15.84	12.18	15.92	14.72
MAX PAIN	27.37	20.47	15.24	19.40	17.27	15.11	24.38
S&P 500	11.72	8.70	6.57	5.82	4.39	16.71	13.99

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	(3.35)	(1.79)	0.19	0.17	0.67	1.57	1.71
MAX PAIN	(2.32)	(0.78)	1.00	0.47	0.62	1.59	1.20
S&P 500	(2.58)	(1.61)	(0.52)	(0.52)	(0.54)	0.51	0.85



Strategy by Private Farmer

