Investment Strategies

Investments for the month of

January 31, 2024

We are still mid month Dec 2023, January 2024 selections aren't final until full month results are in for Dec 2023.

Strategy Components Invested:

←Conservative Aggressive →

Month	GPM	GPMv	HedgeFundie	MAX PAIN	Profit Farmer
Jan 2023	100% SHY	100% BIL	55% UPRO 45% TMF	3X S&P MidCap 400	48.82% EDC 51.18% TMF
Feb 2023	22% SGOL 22% PDBC 22% EEM 33% SHY	28% SGOL 28% PDBC 28% VGK 17% BIL	55% UPRO 45% TMF	3X S&P MidCap 400	62.69% EDC 35.1% TMF 2.21% DRN
Mar 2023	100% SHY	100% BIL	55% UPRO 45% TMF	3X Long Term Treasuries	73.36% URTY 26.64% DRN
Apr 2023	11% SGOL 11% QQQ 11% VGK 67% SHY	22% SGOL 22% QQQ 22% VGK 33% VGSH	55% UPRO 45% TMF	3X S&P 500	48.35% EDC 8.74% TQQQ 42.91% TMF
May 2023	17% SGOL 17% QQQ 17% VGK 50% IEF	22% SGOL 22% QQQ 22% VGK 33% VGIT	55% UPRO 45% TMF	3X S&P 500	38.97% EDC 18.5% TQQQ 42.53% TMF
Jun 2023	100% SHY	11% SGOL 11% QQQ 11% IWB 67% VGSH	55% UPRO 45% TMF	3X S&P 500	28.15% URTY 22.11% TQQQ 49.74% TMF
Jul 2023	22% QQQ 22% IWM 22% SPY 33% SHY	28% QQQ 28% IWR 28% IWB 17% BIL	55% UPRO 45% TMF	3X S&P 500	50.19% EDC 14.15% URTY 35.66% TQQQ
Aug 2023	17% QQQ 17% IWM 17% SGOL 50% SHY	22% QQQ 22% SGOL 22% IWR 33% BIL	55% UPRO 45% TMF	3X S&P 500	19.06% EDC 28.26% URTY 52.68% TQQQ
Sep 2023	22% QQQ 22% SGOL 22% PDBC 33% SHY	28% QQQ 28% SGOL 28% PDBC 17% VGSH	55% UPRO 45% TMF	3X S&P 500	24.25% EDC 52.61% URTY 23.14% TQQQ
Oct 2023	6% PDBC 6% QQQ 6% SPY 83% SHY	17% PDBC 17% QQQ 17% IWB 50% VGSH	55% UPRO 45% TMF	3X Long Term Treasuries	47.69% EDC 9.86% TQQQ 42.45% DRN
Nov 2023	100% SHY	100% VGSH	55% UPRO 45% TMF	Extended Duration Treasuries	73.74% EDC 11.96% TQQQ 14.3% DRN
Dec 2023	22% SGOL 22% QQQ 22% VGK 33% SHY	28% SGOL 28% QQQ 28% VGK 17% VGSH	55% UPRO 45% TMF	3X S&P 500	68.3% EDC 31.7% TQQQ
Jan 2024	**28% SGOL 28% QQQ 28% IWM 17% SHY**	**33% SGOL 33% QQQ 33% IWR**	55% UPRO 45% TMF	**3X Russell 2000**	**22.1% URTY 68.18% TMF 9.72% DRN**

For January, here are the investments by strategy:

randy@dualmomentumsystems.com

Investment Strategies

Rolling 12 Month Returns

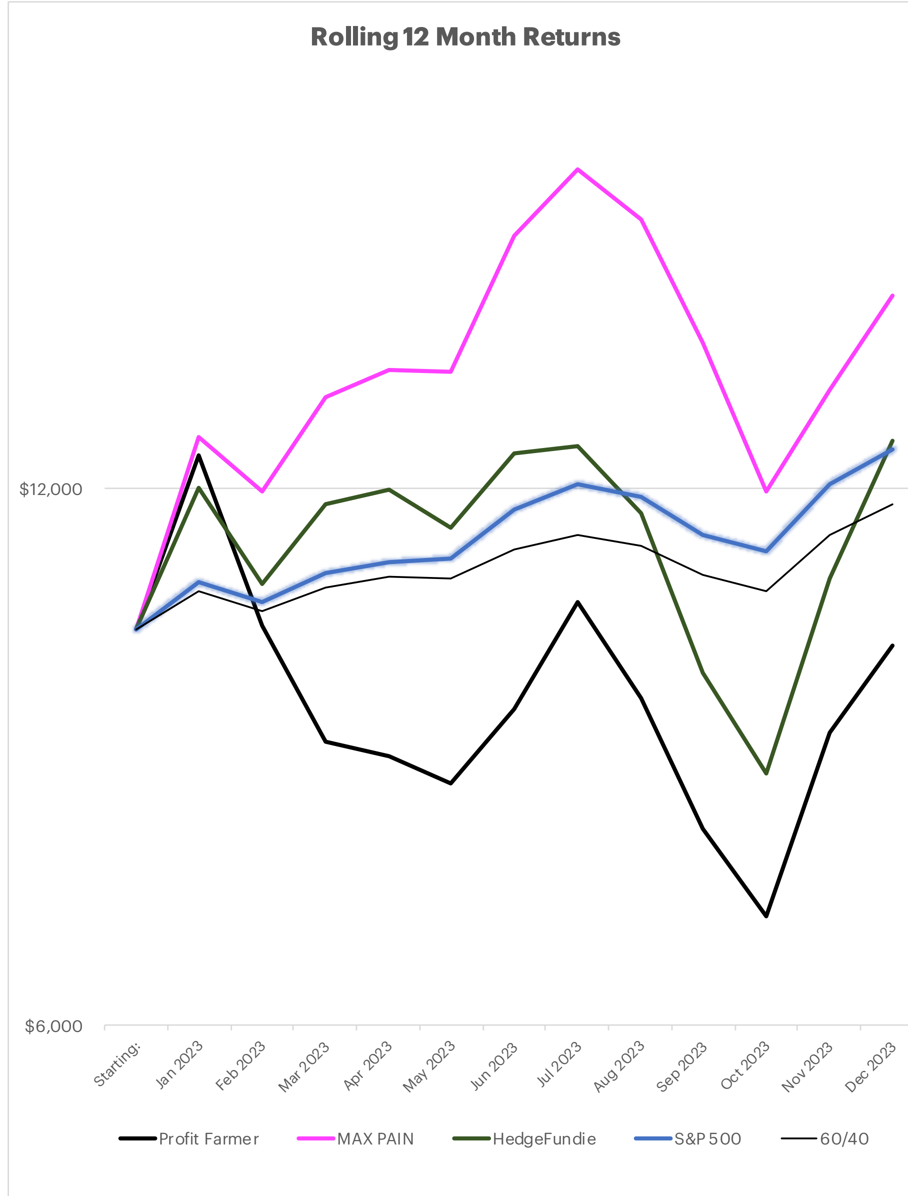
Through December 30, 2023

Returns and Maximum Drawdown:

Month	US Market S&P 500	Balanced 60/40	Nasdaq 100 QQQ	HedgeFundie	Profit Farmer	MAX PAIN
Jan 2023	6.29%	5.10%	10.64%	20.01%	25.22%	28.28%
Feb 2023	-2.51%	-2.67%	-0.36%	-11.66%	-19.65%	-6.80%
Mar 2023	3.71%	3.30%	9.49%	10.98%	-14.03%	12.86%
Apr 2023	1.60%	1.20%	0.51%	1.83%	-1.93%	3.60%
May 2023	0.46%	-0.19%	7.88%	-4.81%	-3.44%	-0.15%
Jun 2023	6.48%	3.80%	6.30%	10.10%	10.22%	19.13%
Jul 2023	3.27%	1.91%	3.86%	1.00%	14.82%	8.95%
Aug 2023	-1.63%	-1.24%	-1.48%	-8.44%	-11.67%	-6.37%
Sep 2023	-4.74%	-3.84%	-5.08%	-18.57%	-15.63%	-14.71%
Oct 2023	-2.17%	-1.91%	-2.07%	-12.18%	-10.62%	-17.43%
Nov 2023	9.13%	7.29%	10.82%	28.69%	26.78%	14.03%
Dec 2023	4.57%	4.16%	5.59%	19.41%	11.99%	12.94%
12 Mo Rtrn:	**26.18%**	**17.55%**	**54.84%**	**27.60%**	**-1.96%**	**53.84%**
Max DD:	-8.33%	-6.84%	-8.42%	-34.52%	-44.86%	-34.06%
b/(w) S&P 500:	0.0%	-8.6%	28.7%	1.4%	-28.1%	27.7%

$10,000 turns into:

Month	US Market S&P 500	Balanced 60/40	Nasdaq 100 QQQ	HedgeFundie	Profit Farmer	MAX PAIN
Starting:	$ 10,000	$ 10,000	$ 10,000	$ 10,000	$ 10,000	$ 10,000
Jan 2023	$ 10,629	$ 10,510	$ 11,064	$ 12,001	$ 12,522	$ 12,828
Feb 2023	$ 10,362	$ 10,230	$ 11,024	$ 10,602	$ 10,061	$ 11,956
Mar 2023	$ 10,747	$ 10,567	$ 12,070	$ 11,766	$ 8,650	$ 13,493
Apr 2023	$ 10,919	$ 10,693	$ 12,132	$ 11,981	$ 8,483	$ 13,979
May 2023	$ 10,969	$ 10,673	$ 13,088	$ 11,404	$ 8,191	$ 13,958
Jun 2023	$ 11,680	$ 11,079	$ 13,912	$ 12,556	$ 9,028	$ 16,628
Jul 2023	$ 12,062	$ 11,291	$ 14,449	$ 12,682	$ 10,366	$ 18,116
Aug 2023	$ 11,865	$ 11,151	$ 14,236	$ 11,612	$ 9,157	$ 16,962
Sep 2023	$ 11,303	$ 10,723	$ 13,512	$ 9,456	$ 7,725	$ 14,467
Oct 2023	$ 11,057	$ 10,518	$ 13,233	$ 8,304	$ 6,905	$ 11,946
Nov 2023	$ 12,067	$ 11,285	$ 14,665	$ 10,686	$ 8,754	$ 13,622
Dec 2023	$ 12,618	$ 11,755	$ 15,484	$ 12,760	$ 9,804	$ 15,384



randy@dualmomentumsystems.com

Investment Strategies

1980 through December 30, 2023

Annual returns:

Year End	Benchmarks US Market S&P 500	 Balanced 60/40	 Nasdaq 100 QQQ	Dual Momentum HedgeFundie	 MAX PAIN	 Profit Farmer
1980	32.49%	21.02%	33.38%	45.72%	112.85%	0.00%
1981	-4.90%	0.07%	-0.63%	-13.21%	17.16%	0.00%
1982	21.55%	25.68%	18.20%	104.69%	134.42%	0.00%
1983	22.55%	16.21%	19.58%	33.46%	107.36%	0.00%
1984	6.25%	9.84%	-13.19%	25.80%	8.11%	0.00%
1985	31.23%	27.65%	32.38%	122.87%	87.51%	0.00%
1986	18.05%	17.65%	10.83%	68.99%	37.57%	0.00%
1987	4.68%	4.81%	-11.38%	-2.02%	-45.08%	-18.83%
1988	16.22%	12.64%	19.47%	37.21%	23.23%	56.44%
1989	31.38%	24.20%	19.49%	86.89%	73.31%	30.16%
1990	-3.32%	1.56%	-17.55%	-4.70%	-31.86%	-17.86%
1991	30.22%	24.30%	46.97%	90.44%	89.45%	166.45%
1992	7.40%	7.35%	21.54%	23.25%	23.14%	53.18%
1993	9.58%	9.66%	15.37%	40.42%	44.23%	63.89%
1994	0.38%	-0.77%	-3.66%	-10.94%	-15.76%	-22.12%
1995	38.05%	29.81%	42.46%	133.08%	96.18%	120.13%
1996	22.51%	14.70%	23.41%	33.24%	24.90%	16.68%
1997	33.49%	23.58%	21.27%	78.35%	73.59%	85.81%
1998	28.69%	21.01%	32.17%	71.42%	4.10%	25.04%
1999	20.39%	11.65%	101.07%	14.82%	12.88%	61.90%
2000	-9.74%	-1.49%	-36.11%	2.12%	58.06%	98.51%
2001	-11.75%	-3.81%	-33.34%	-18.16%	5.80%	22.72%
2002	-21.59%	-9.80%	-37.37%	-20.45%	19.08%	-6.68%
2003	28.16%	18.19%	49.67%	49.04%	222.74%	163.96%
2004	10.71%	8.00%	10.54%	29.13%	39.62%	44.50%
2005	4.83%	3.87%	1.57%	20.71%	-8.55%	52.20%
2006	15.84%	10.95%	7.14%	24.73%	55.90%	57.12%
2007	5.14%	5.94%	19.02%	19.86%	9.98%	-19.18%
2008	-36.81%	-21.86%	-41.73%	-42.86%	48.69%	17.52%
2009	26.38%	18.66%	54.68%	-4.88%	23.19%	5.06%
2010	15.06%	12.04%	20.14%	43.94%	38.95%	21.52%
2011	1.88%	4.38%	3.47%	45.73%	60.10%	80.37%
2012	16.00%	11.39%	18.12%	31.69%	47.10%	11.19%
2013	32.31%	17.44%	36.63%	29.66%	149.93%	114.09%
2014	13.48%	10.56%	19.18%	64.08%	27.61%	56.48%
2015	1.26%	1.11%	9.45%	-2.45%	-17.34%	4.30%
2016	12.00%	8.34%	7.10%	19.88%	58.20%	50.27%
2017	21.71%	14.26%	32.66%	51.13%	23.68%	61.33%
2018	-4.56%	-2.47%	-0.12%	-13.56%	8.78%	7.79%
2019	31.23%	21.98%	38.96%	81.31%	27.64%	21.26%
2020	18.39%	14.93%	48.40%	49.80%	120.14%	101.69%
2021	28.76%	15.74%	27.42%	36.12%	82.82%	108.84%
2022	-18.16%	-15.86%	-32.59%	-63.22%	-63.67%	-80.51%
2023	26.18%	17.55%	54.84%	27.60%	53.84%	-1.96%
+/- S&P YTD:	0.0%	-8.6%	28.7%	1.4%	27.7%	-28.1%
CAGR	11.7%	9.8%	12.0%	25.8%	34.8%	0.0%

randy@dualmomentumsystems.com

Dual Momentum Strategies: HedgeFundie

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

Results through 12/30/2023

Investment selection for January 2024:
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 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	1.52	1.73
Alpha	2.84%	5.90%

Annualized Returns, actual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
HedgeFundie	27.60%	27.60%	-13.88%	11.65%	15.84%	13.19%	25.77%
Balanced 60/40	17.55%	17.55%	3.11%	8.98%	7.57%	5.86%	9.79%
S&P 500	26.18%	26.18%	9.96%	15.62%	11.94%	6.95%	11.65%

Maximum Drawdown, single largest drawdown.

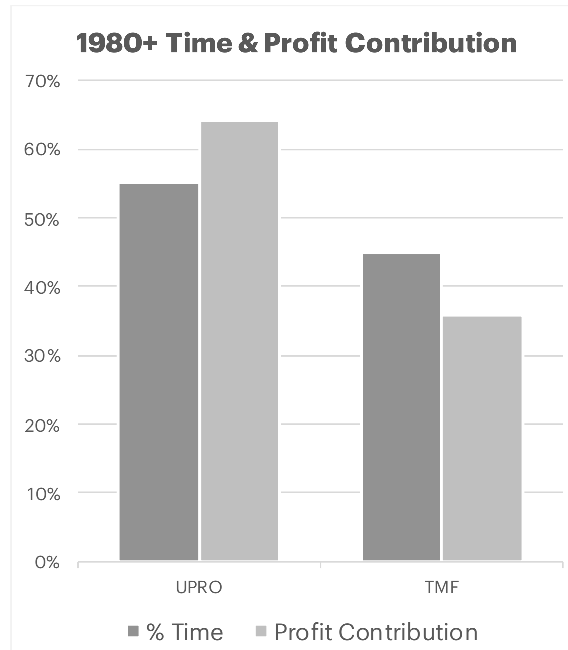
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
HedgeFundie	-34.52%	-34.52%	-69.46%	-69.46%	-69.46%	-69.46%	-69.46%
Balanced 60/40	-6.84%	-6.84%	-20.09%	-20.09%	-20.09%	-32.33%	-32.33%
S&P 500	-8.33%	-8.33%	-23.92%	-23.92%	-23.92%	-50.79%	-50.79%

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	13.37	13.37	43.46	34.03	24.80	25.96	20.50
Balanced 60/40	2.49	2.49	10.83	8.63	6.27	8.25	6.45
S&P 500	3.01	3.01	9.89	8.37	6.39	16.46	12.87

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

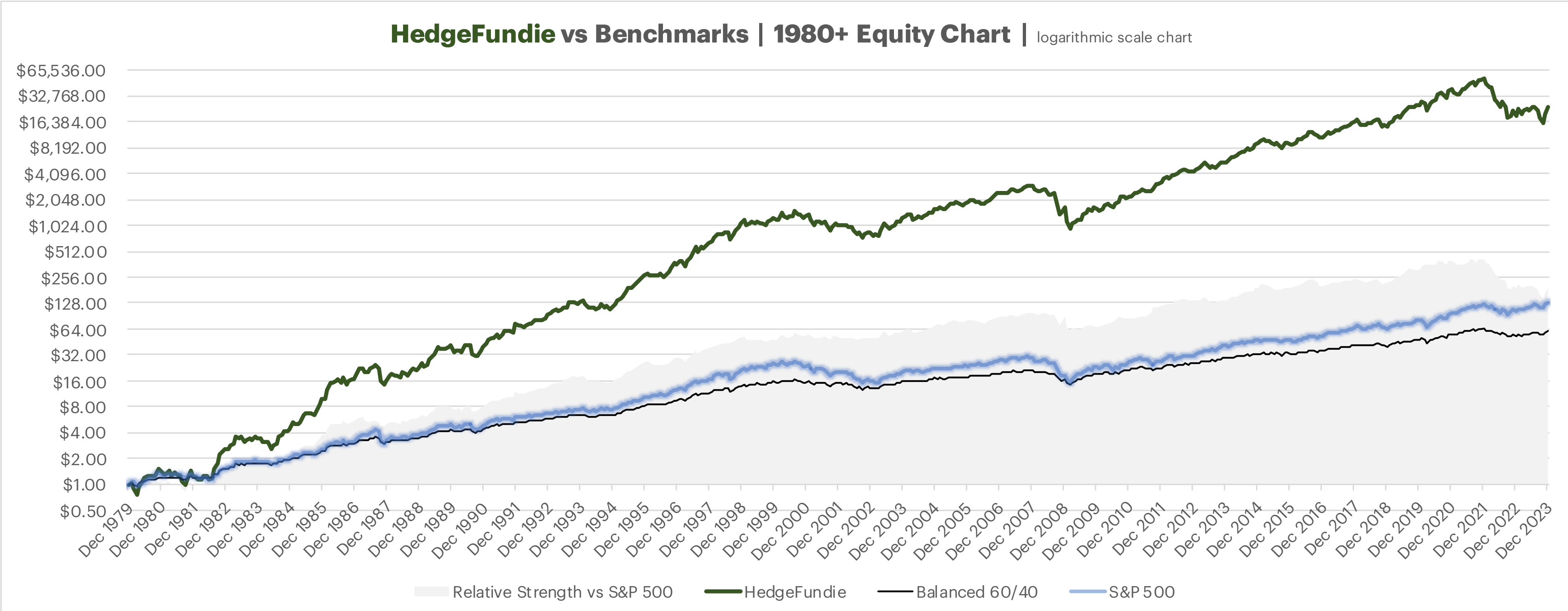
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
HedgeFundie	(0.73)	(0.73)	(1.55)	(1.20)	(1.43)	0.57	1.19
Balanced 60/40	(2.69)	(2.69)	(2.84)	(2.75)	(2.97)	0.13	0.70
S&P 500	(2.26)	(2.26)	(2.34)	(2.16)	(2.49)	0.24	0.67

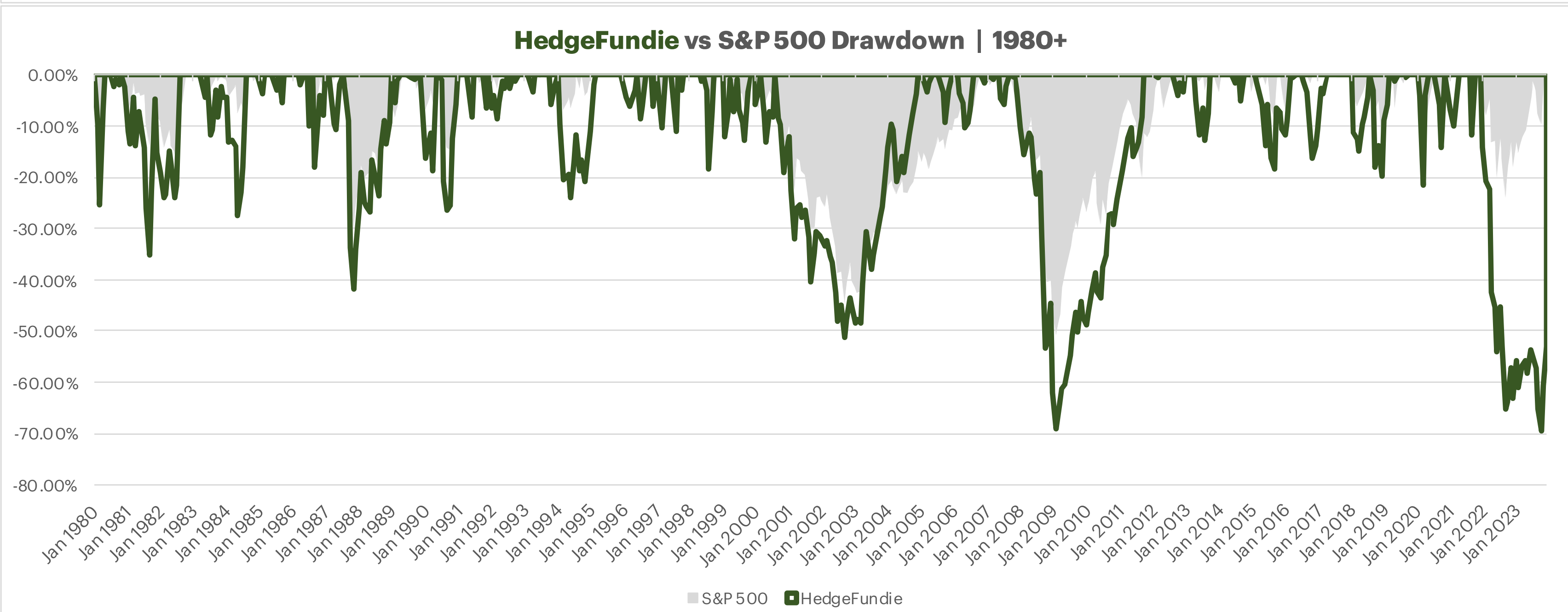


HedgeFundie's Excellent Adventure [55/45] began in August 2019, out of sample after that time.

randy@dualmomentumsystems.com

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





HedgeFundie's Excellent Adventure [55/45] began in August 2019, out of sample after that time.

randy@dualmomentumsystems.com

Dual Momentum Strategies: MAX PAIN

USA Momentum Rotational always using triple leverage

Results through 12/30/2023

Investment selection for January 2024:
URTY, 3X Russell 2000

Tax friendliness:
MAX PAIN has 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	1.10	1.60
Alpha	27.48%	16.40%

Annualized Returns, actual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	53.84%	53.84%	0.72%	23.48%	20.48%	35.07%	34.79%
Balanced 60/40	17.55%	17.55%	3.11%	8.98%	7.57%	5.86%	9.79%
S&P 500	26.18%	26.18%	9.96%	15.62%	11.94%	6.95%	11.65%

Maximum Drawdown, single largest drawdown.

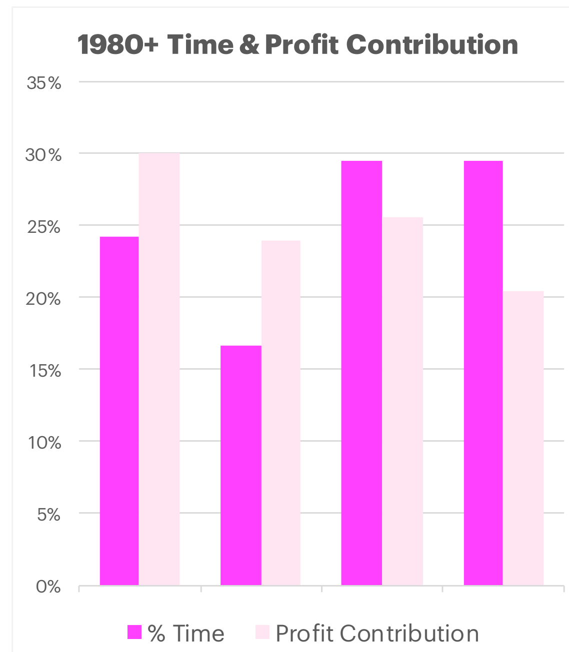
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	-34.06%	-34.06%	-63.67%	-63.67%	-63.67%	-63.67%	-67.06%
Balanced 60/40	-6.84%	-6.84%	-20.09%	-20.09%	-20.09%	-32.33%	-32.33%
S&P 500	-8.33%	-8.33%	-23.92%	-23.92%	-23.92%	-50.79%	-50.79%

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	13.85	13.85	38.53	30.80	23.95	17.78	21.61
Balanced 60/40	2.49	2.49	10.83	8.63	6.27	8.25	6.45
S&P 500	3.01	3.01	9.89	8.37	6.39	16.46	12.87

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

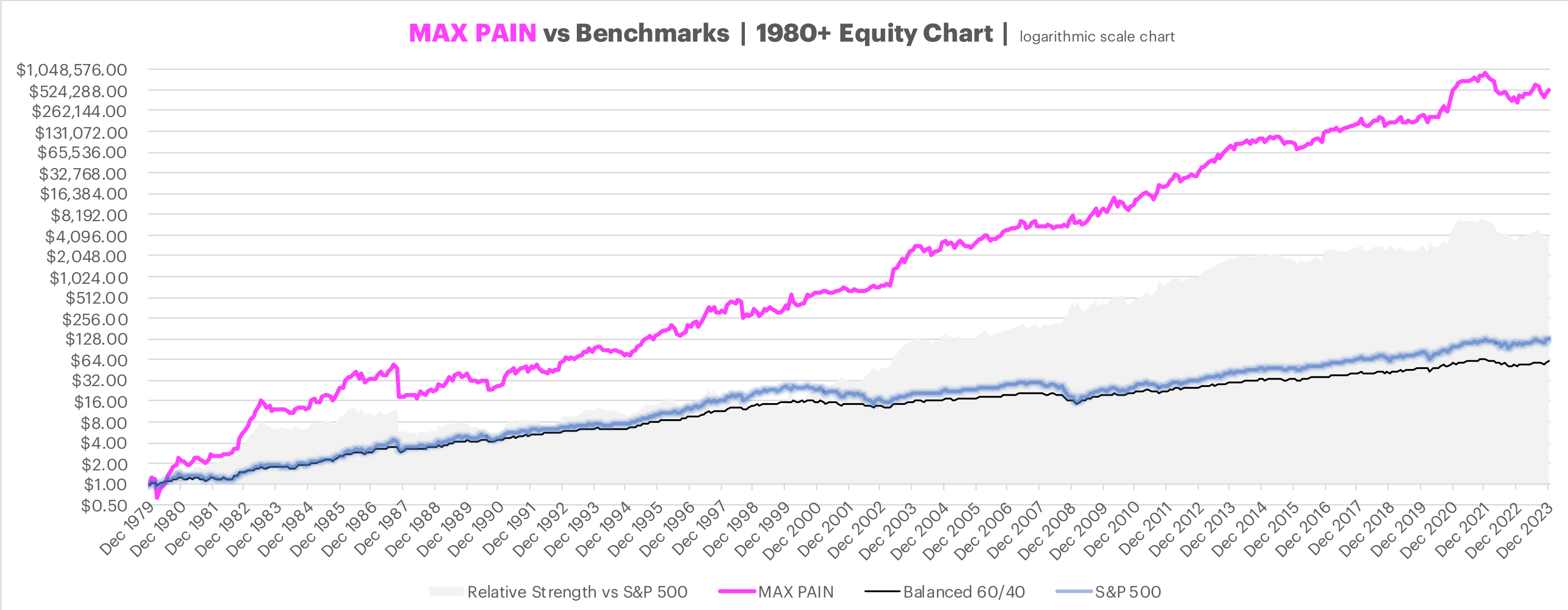
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
MAX PAIN	(0.30)	(0.30)	(1.37)	(0.85)	(1.10)	1.49	1.37
Balanced 60/40	(2.69)	(2.69)	(2.84)	(2.75)	(2.97)	0.13	0.70
S&P 500	(2.26)	(2.26)	(2.34)	(2.16)	(2.49)	0.24	0.67

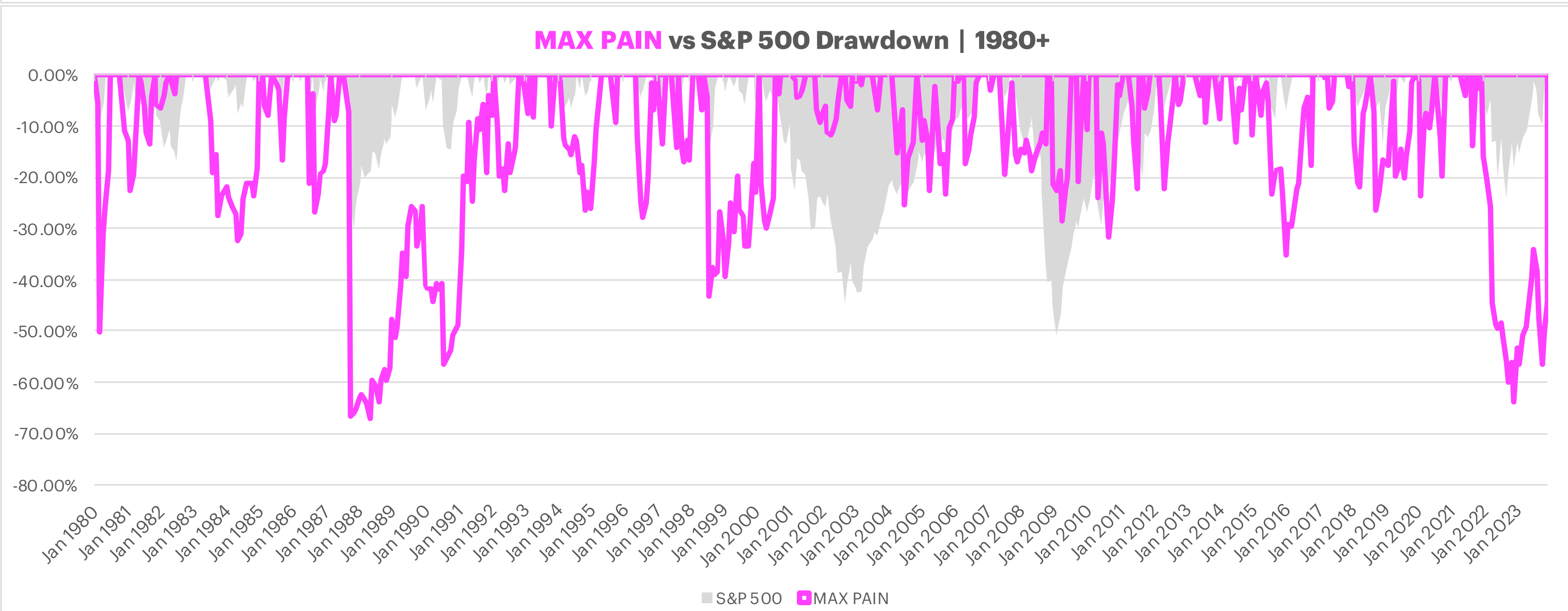


The MAX PAIN inception date January 2021, out of sample since then and before 2000.

randy@dualmomentumsystems.com

Dual Momentum Systems: MAX PAIN





The MAX PAIN inception date January 2021, out of sample since then and before 2000.

randy@dualmomentumsystems.com

Dual Momentum Strategies: Profit Farmer

A Minimum Variance Adaptive Asset Allocation strategy by Private Farmer

Results through 12/30/2023

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 invested in 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 Farmer** has frequent and larger drawdowns than the S&P.
Volatility: **Profit Farmer** is far more volatile than the S&P over time.
Returns: **Profit Farmer** has 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	1.33	1.37
Alpha	19.85%	23.19%

Annualized Returns, actual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	05/1987+
Profit Farmer	-1.96%	-1.96%	-26.38%	-0.49%	15.33%	28.98%	32.55%
MAX PAIN	53.84%	53.84%	0.72%	23.48%	20.48%	35.07%	29.65%
S&P 500	26.18%	26.18%	9.96%	15.62%	11.94%	6.95%	10.17%

Maximum Drawdown, single largest drawdown.

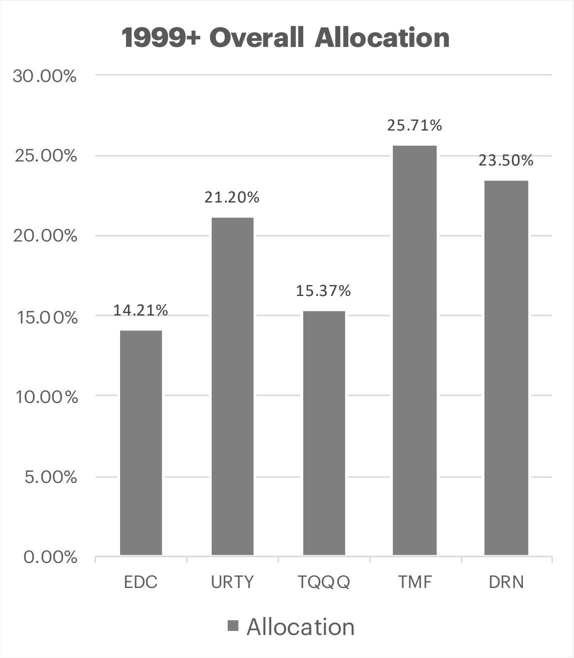
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	05/1987+
Profit Farmer	-44.86%	-44.86%	-86.54%	-86.54%	-86.54%	-86.54%	-86.54%
MAX PAIN	-34.06%	-34.06%	-63.67%	-63.67%	-63.67%	-63.67%	-67.06%
S&P 500	-8.33%	-8.33%	-23.92%	-23.92%	-23.92%	-50.79%	-50.79%

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	28.06	28.06	58.05	45.48	32.82	25.14	21.58
MAX PAIN	13.85	13.85	38.53	30.80	23.95	17.78	22.74
S&P 500	3.01	3.01	9.89	8.37	6.39	16.46	13.92

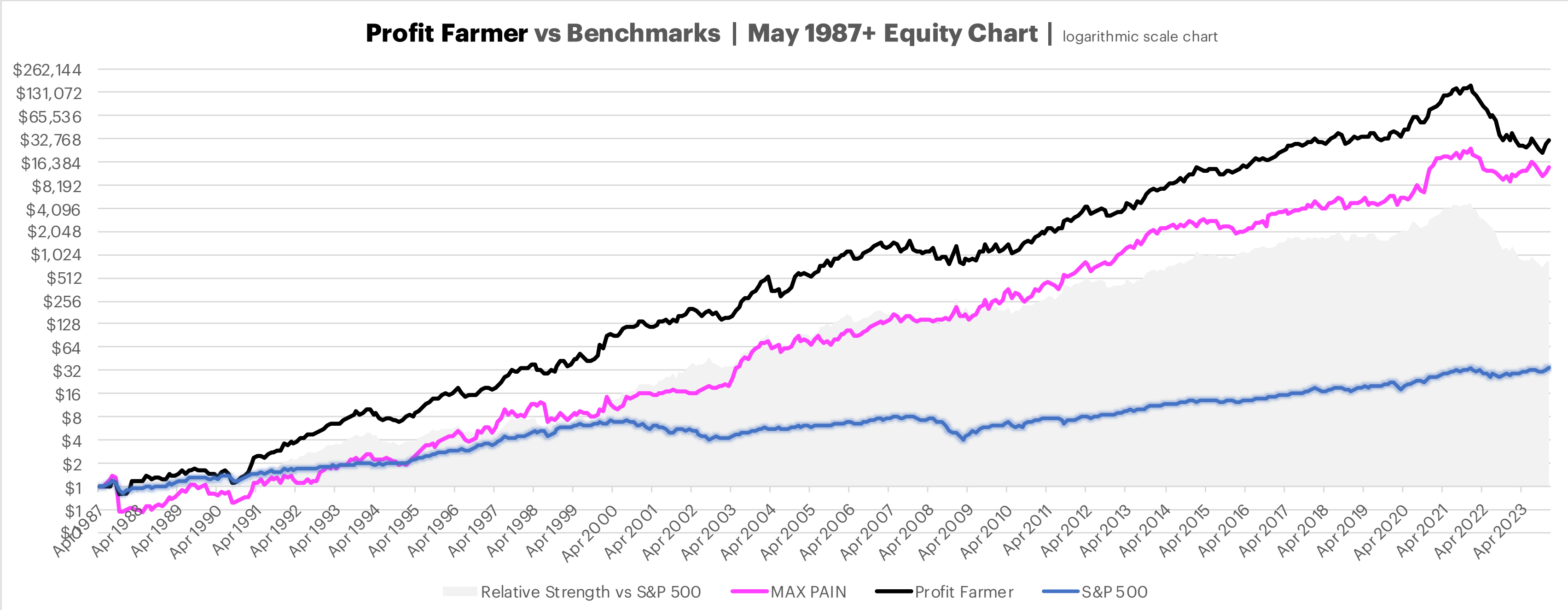
Sortino Ratio, risk adjusted performance measure - bigger number is better.

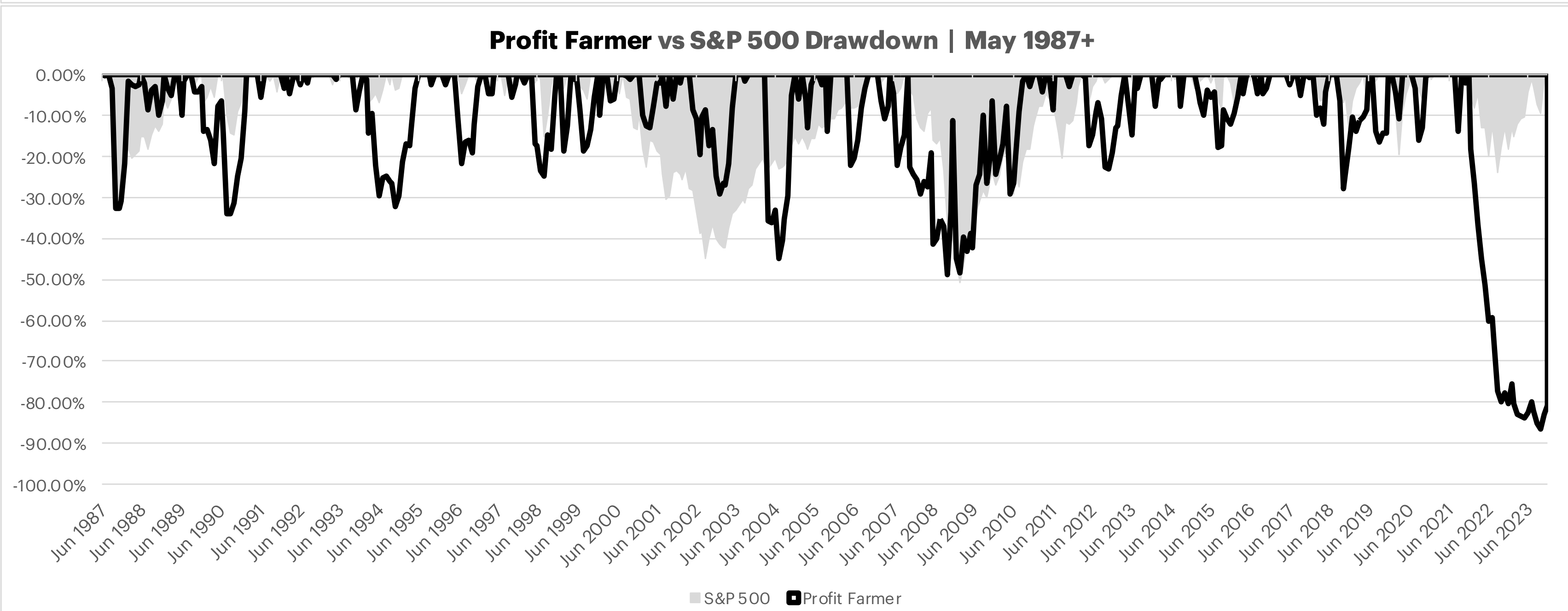
Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	05/1987+
Profit Farmer	(1.14)	(1.14)	(1.63)	(1.29)	(1.25)	1.13	1.31
MAX PAIN	(0.30)	(0.30)	(1.37)	(0.85)	(1.10)	1.49	1.19
S&P 500	(2.26)	(2.26)	(2.34)	(2.16)	(2.49)	0.24	0.52



randy@dualmomentumsystems.com

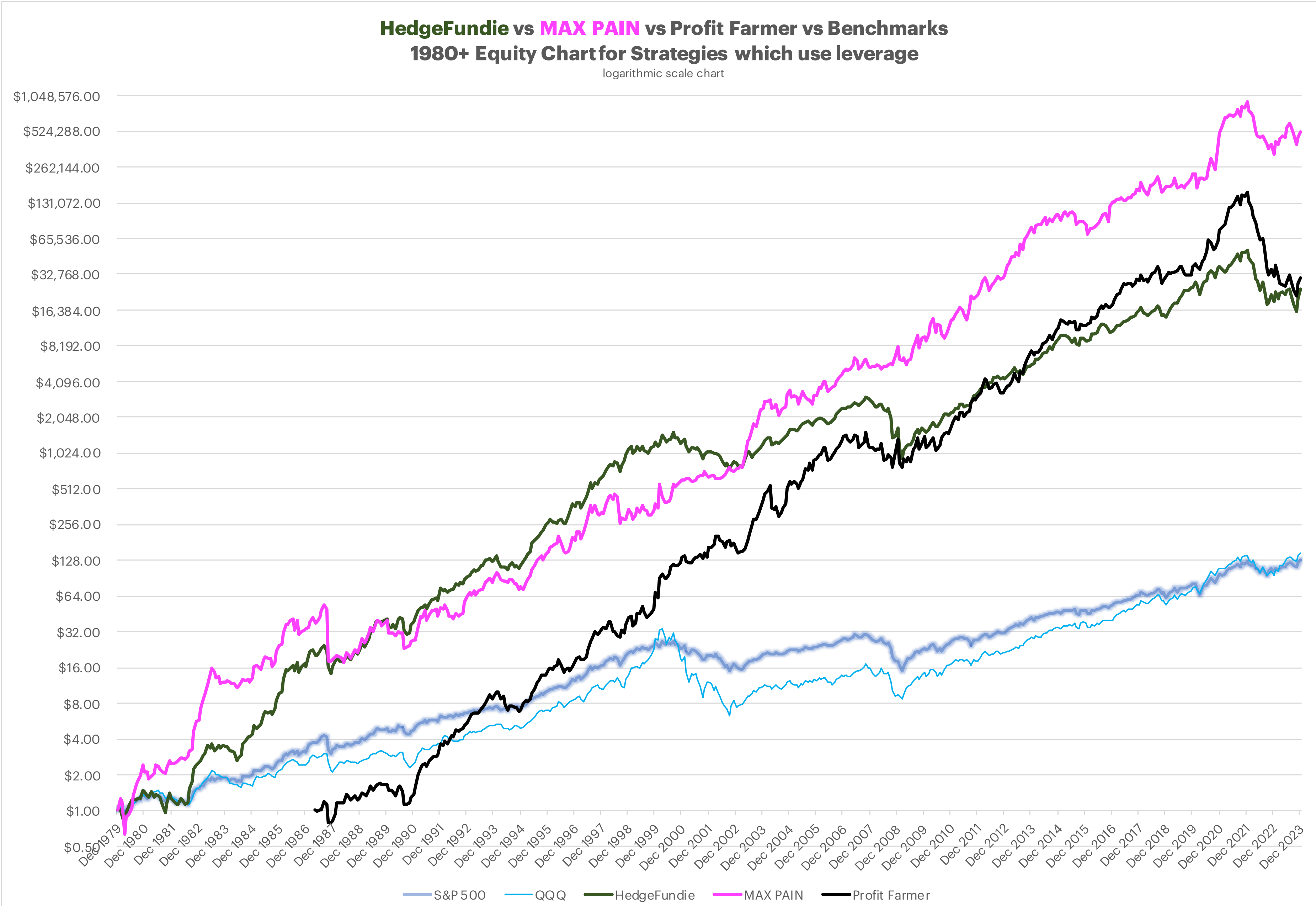
Strategy by Private Farmer





randy@dualmomentumsystems.com

Results through 12/30/2023

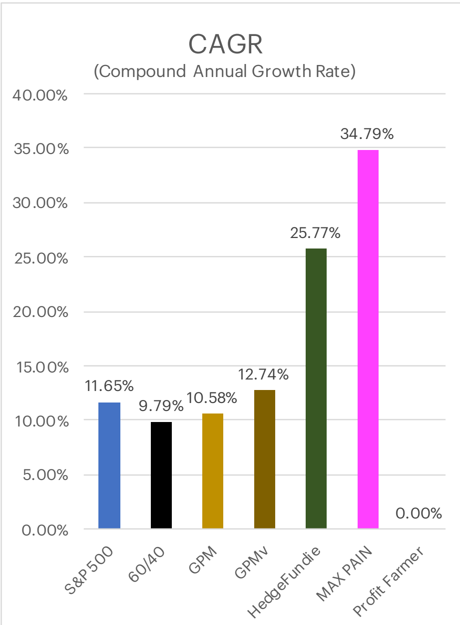


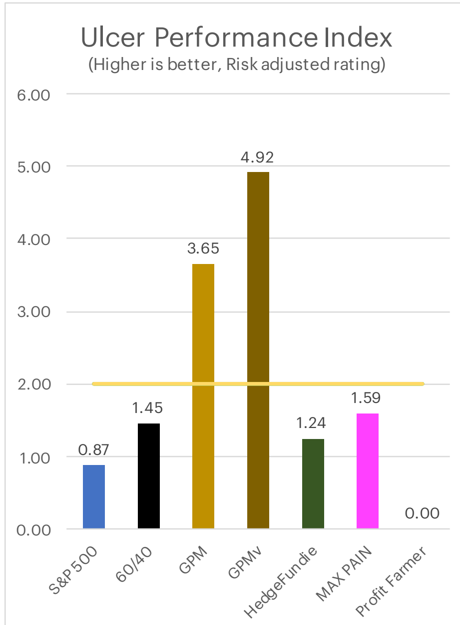
*Profit Farmer returns only back through May 1987

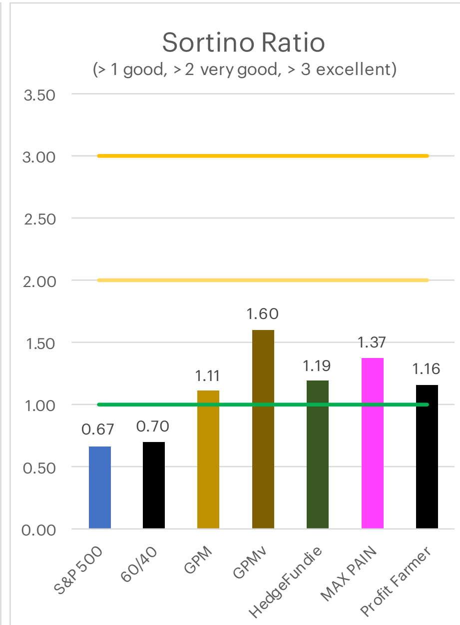
randy@dualmomentumsystems.com

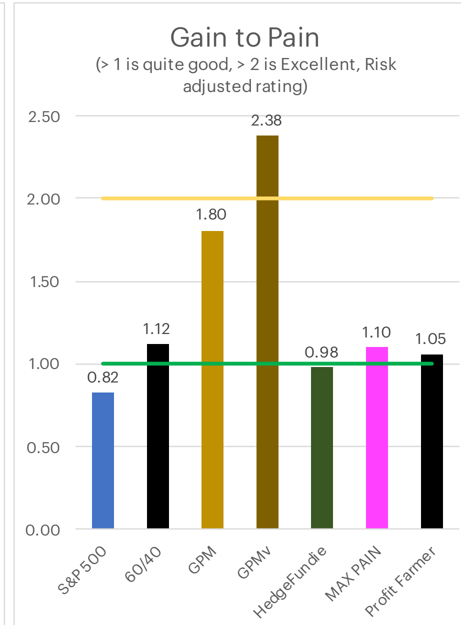
Results through 12/30/2023

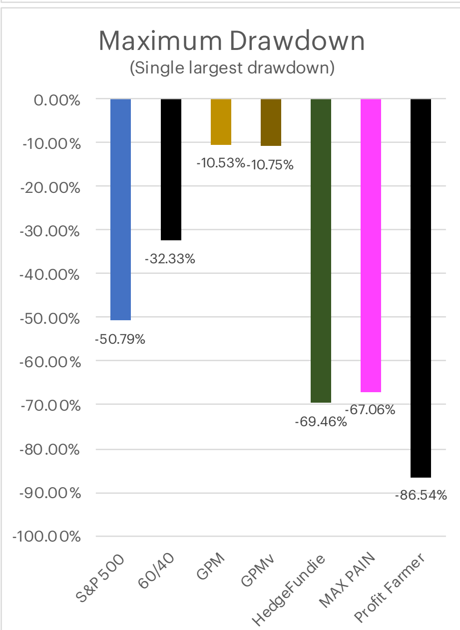
"Long Term" Metrics Comparisons: Strategies vs S&P 500 & 60/40
1980 to current

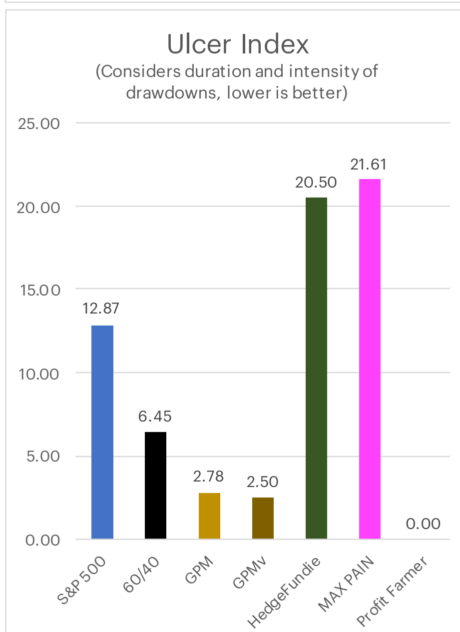


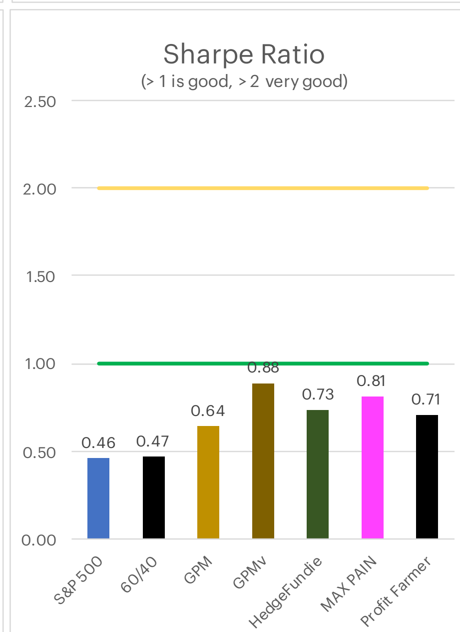


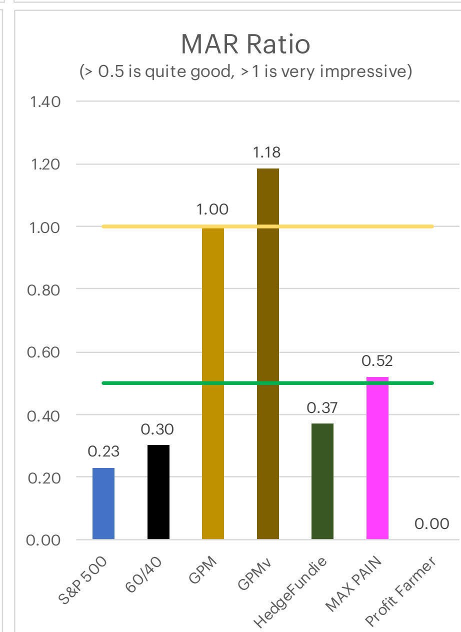












All Metrics are calculated from Monthly returns

randy@dualmomentumsystems.com