Process driven investment decisions driving better long term results with more shallow drawdowns and better risk adjusted performance.



Disclosure

Nothing in this report should be construed as investment advice, an offer, recommendation, or solicitation to buy or sell any investment. All investing involves risk, including the possible loss of money you invest, and past performance does not guarantee future performance.

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DMS Allocation Strategies

Dual Momentum Systems, aka DMS, was the brought about because I think it's a much better approach than buy and hold. It can lag the market in a hot market, althought it has great potential with reasonable risk to outperform when Smart Leverage kicks in. And where it really shines is keeping you out of protracted down markets. But dual momentum investment requires attention and possible changes of investment with each new month. There are people who would rather set it and forget it. There may also be people, like myself, who wish to set and forget certain accounts while still using dual momentum in other accounts.

The Bamboo Portfolio allocation strategies are going to be inherently more volatile than the dual momentum strategies because they are always invested. The Bamboo+ Portfolio and Bamboo++ Portfolio strategies use 2X and 3X leverage with the US Large Cap allocation by using the same Smart Leverage as the dual momentum strategies.

These allocation strategies do not trade each month, they just require a re-balancing at the start of every year. The exception is if you are in the + or ++ version, there could be additional trades going into and out of Smart Leverage. But the leveraged versions have averaged less than 2 trades per year from 2000 forward, so it isn't excessive at all.

Investment Strategies Investments for the month of April 2024

Strategy Components Invested:

←Conservative Aggressive \rightarrow Month Bamboo Portfolio Bamboo++ Portfolio **Bamboo+ Portfolio** Apr 2023 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% May 2023 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% Jun 2023 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% Jul 2023 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% Aug 2023 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% Sep 2023 IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 0%, BND: 20%, DBMF: 20%, SGOL: 20% Oct 2023 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% Nov 2023 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% Dec 2023 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% Jan 2024 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% Feb 2024 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% Mar 2024 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% Apr 2024 IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20% IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20%

For April, here are the investments by strategy:

Bamboo Portfolio

This is an allocation strategy, rebalanced annually.

Bamboo+ Portfolio

This is an allocation strategy, which rebalanced annually and will put the IWB portion into leveraged 2X SSO using Smart Leverage.

Bamboo++ Portfolio

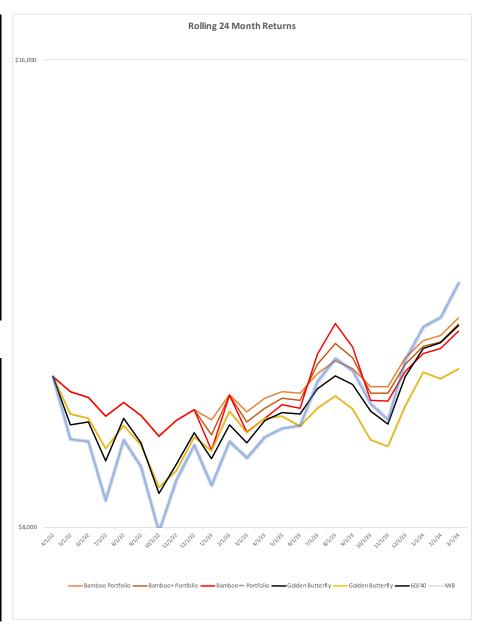
This is an allocation strategy, which rebalanced annually and will put the IWB portion into leveraged 3X UPRO using Smart Leverage.

** When you rebalance, if you have gains, rebalance 1 year + 1 day so that you get long term capital gains if not in a taxed advantaged account.

DMS Bamboo Portfolios Rolling 24 Month Returns Through March 31, 2024

Returns and M	Aaximum Dr		Aggressive \rightarrow			
	US Market	Balanced				
Month	IWB	60/40	Golden Butterfly	Bamboo Portfolio	Bamboo+ Portfolio	Bamboo++ Portfolio
Apr 2022	-8.86%	-6.86%	-5.34%	-2.21%	-2.21%	-2.21%
May 2022	-0.23%	0.47%	-0.66%	-0.85%	-0.85%	-0.85%
Jun 2022	-8.37%	-5.61%	-4.40%	-2.73%	-2.73%	-2.73%
Jul 2022	9.27%	6.48%	3.54%	2.06%	2.06%	2.06%
Aug 2022	-3.84%	-3.57%	-2.87%	-1.82%	-1.82%	-1.82%
Sep 2022	-9.17%	-7.22%	-6.06%	-3.05%	-3.05%	-3.05%
Oct 2022	7.90%	4.41%	2.40%	2.30%	2.30%	2.30%
Nov 2022	5.35%	4.80%	5.23%	1.62%	1.62%	1.62%
Dec 2022	-5.75%	-3.78%	-2.06%	-1.51%	-3.69%	-5.81%
Jan 2023	6.64%	5.10%	6.00%	3.83%	6.06%	8.42%
Feb 2023	-2.38%	-2.57%	-3.15%	-2.46%	-3.84%	-5.23%
Mar 2023	3.17%	3.30%	2.22%	1.98%	1.99%	2.00%
Apr 2023	1.23%	1.20%	0.35%	1.00%	1.57%	2.01%
May 2023	0.47%	-0.19%	-1.53%	-0.22%	-0.29%	-0.47%
Jun 2023	6.70%	3.80%	2.67%	2.91%	5.48%	8.37%
Jul 2023	3.46%	1.91%	1.87%	1.88%	3.13%	4.60%
Aug 2023	-1.74%	-1.24%	-1.88%	-1.08%	-2.18%	-3.43%
Sep 2023	-4.79%	-3.84%	-4.46%	-2.69%	-5.09%	-7.61%
Oct 2023	-2.38%	-1.91%	-1.01%	0.02%	-0.01%	-0.03%
Nov 2023	9.33%	7.29%	6.17%	4.31%	4.37%	4.43%
Dec 2023	5.00%	4.16%	5.18%	2.65%	2.68%	2.71%
Jan 2024	1.34%	0.89%	-0.97%	0.70%	0.70%	0.70%
Feb 2024	5.27%	2.59%	1.45%	2.67%	2.67%	2.67%
Mar 2024	3.26%	2.30%	3.76%	4.30%	4.30%	4.30%
12 Mo Rtrn:	18.64%	10.38%	4.99%	13.82%	12.79%	11.65%
Max DD:	-8.67%	-6.84%	-7.21%	-3.74%	-7.17%	-10.81%
b/(w) S&P 500:	0.0%	-8.3%	-13.7%	-4.8%	-5.9%	-7.0%

\$10,000 turns	into:			←Conservative		Aggressive \rightarrow
	US Market	Balanced				
Month	IWB	60/40	Golden Butterfly	Bamboo Portfolio	Bamboo+ Portfolio	Bamboo++ Portfolio
Starting:	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
Apr 2022	\$ 9,114	\$ 9,314	\$ 9,466	\$ 9,779	\$ 9,779	\$ 9,779
May 2022	\$ 9,093	\$ 9,358	\$ 9,403	\$ 9,696	\$ 9,696	\$ 9,696
Jun 2022	\$ 8,332	\$ 8,833	\$ 8,989	\$ 9,431	\$ 9,431	\$ 9,431
Jul 2022	\$ 9,104	\$ 9,405	\$ 9,308	\$ 9,625	\$ 9,625	\$ 9,625
Aug 2022	\$ 8,755	\$ 9,069	\$ 9,040	\$ 9,450	\$ 9,450	\$ 9,450
Sep 2022	\$ 7,952	\$ 8,415	\$ 8,492	\$ 9,162	\$ 9,162	\$ 9,162
Oct 2022	\$ 8,580	\$ 8,786	\$ 8,697	\$ 9,373	\$ 9,373	\$ 9,373
Nov 2022	\$ 9,039	\$ 9,208	\$ 9,151	\$ 9,525	\$ 9,525	\$ 9,525
Dec 2022	\$ 8,519	\$ 8,860	\$ 8,963	\$ 9,381	\$ 9,173	\$ 8,971
Jan 2023	\$ 9,085	\$ 9,312	\$ 9,501	\$ 9,740	\$ 9,729	\$ 9,727
Feb 2023	\$ 8,869	\$ 9,072	\$ 9,202	\$ 9,501	\$ 9,356	\$ 9,219
Mar 2023	\$ 9,150	\$ 9,371	\$ 9,405	\$ 9,689	\$ 9,542	\$ 9,403
Apr 2023	\$ 9,263	\$ 9,483	\$ 9,438	\$ 9,786	\$ 9,691	\$ 9,592
May 2023	\$ 9,306	\$ 9,466	\$ 9,293	\$ 9,764	\$ 9,663	\$ 9,547
Jun 2023	\$ 9,930	\$ 9,825	\$ 9,542	\$ 10,049	\$ 10,193	\$ 10,346
Jul 2023	\$ 10,273	\$ 10,013	\$ 9,721	\$ 10,238	\$ 10,512	\$ 10,823
Aug 2023	\$ 10,094	\$ 9,889	\$ 9,538	\$ 10,127	\$ 10,284	\$ 10,451
Sep 2023	\$ 9,611	\$ 9,510	\$ 9,112	\$ 9,855	\$ 9,760	\$ 9,656
Oct 2023	\$ 9,382	\$ 9,328	\$ 9,020	\$ 9,857	\$ 9,759	\$ 9,653
Nov 2023	\$ 10,257	\$ 10,008	\$ 9,576	\$ 10,282	\$ 10,186	\$ 10,080
Dec 2023	\$ 10,770	\$ 10,425	\$ 10,073	\$ 10,555	\$ 10,459	\$ 10,353
Jan 2024	\$ 10,915	\$ 10,518	\$ 9,974	\$ 10,629	\$ 10,532	\$ 10,426
Feb 2024	\$ 11,490	\$ 10,790	\$ 10,119	\$ 10,913	\$ 10,814	\$ 10,704
Mar 2024	\$ 11,864	\$ 11,038	\$ 10,499	\$ 11,382	\$ 11,279	\$ 11,165



DMS Allocation Investment Strategies

1980 through March 31, 2024

Annual retu	rns:			←Conservative		Aggressive \rightarrow
		Benchma	arks		Allocation Strategie	es
	US Market	Balanced				
Year End	IWB	60/40	Golden Butterfly	Bamboo Portfolio	Bamboo+ Portfolio	Bamboo++ Portfolio
1980	31.87%	21.02%	15.32%	27.82%	27.82%	27.82%
1981	-5.10%	0.07%	-1.44%	-2.15%	-2.15%	-2.15%
1982	20.31%	25.68%	27.28%	20.12%	28.39%	37.83%
1983	22.13%	16.21%	12.26%	11.66%	20.09%	29.98%
1984	4.75%	9.84%	3.87%	2.70%	2.70%	2.70%
1985	32.26%	27.65%	24.78%	23.22%	23.22%	23.22%
1986	17.87%	17.65%	17.37%	14.97%	14.97%	14.97%
1987	2.93%	4.81%	5.17%	16.92%	16.92%	16.92%
1987	17.26%	12.64%	9.73%	9.33%	10.9276	11.62%
1989	30.43%	24.20%	15.06%	14.67%	28.22%	45.57%
1989	-4.21%	1.56%	-2.54%	3.30%	3.30%	3.30%
1990	33.04%	24.30%	19.73%	15.24%	20.75%	26.77%
1992	8.93%	7.35%	9.25%	3.69%	3.69%	3.69%
1993	10.18%	9.66%	14.57%	11.44%	11.44%	11.44%
1994	0.39%	-0.77%	-1.93%	-0.93%	-0.93%	-0.93%
1995	37.77%	29.81%	22.05%	21.45%	21.45%	21.45%
1996	22.45%	14.70%	8.36%	10.46%	10.46%	10.46%
1997	32.85%	23.58%	13.25%	12.75%	12.75%	12.75%
1998	27.02%	21.01%	7.91%	13.65%	16.55%	19.58%
1999	20.91%	11.65%	3.66%	8.16%	10.22%	12.10%
2000	-6.15%	-1.49%	7.27%	0.65%	0.65%	0.65%
2001	-12.15%	-3.81%	3.01%	-2.65%	-2.65%	-2.65%
2002	-22.31%	-9.80%	3.13%	0.64%	-1.32%	-3.13%
2003	30.05%	18.19%	18.45%	19.97%	34.90%	54.45%
2004	11.02%	8.00%	9.97%	6.40%	10.39%	14.63%
2005 2006	6.34% 15.41%	3.87% 10.95%	8.09% 12.56%	7.17% 12.73%	6.54% 12.73%	6.01% 12.73%
2008	5.32%	5.94%	9.55%	12.75%	12.75%	12.75%
2007	-37.40%	-21.86%	-4.89%	-10.40%	-10.40%	-10.40%
2008	28.33%	18.66%	12.71%	16.66%	29.25%	43.46%
2009	16.08%	12.04%	16.51%	15.40%	19.94%	25.36%
2010	1.23%	4.38%	8.31%	3.00%	3.71%	4.35%
2012	16.51%	11.39%	9.01%	8.24%	14.05%	20.36%
2013	32.78%	17.44%	5.64%	7.16%	7.16%	7.16%
2014	13.07%	10.56%	9.72%	9.16%	9.16%	9.16%
2015	0.79%	1.11%	-3.27%	-1.75%	-1.75%	-1.75%
2016	12.04%	8.34%	9.56%	6.38%	6.38%	6.38%
2017	21.53%	14.26%	10.96%	12.44%	12.44%	12.44%
2018	-4.89%	-2.47%	-3.93%	-3.52%	-3.52%	-3.52%
2019	31.04%	21.98%	17.86%	20.11%	20.11%	20.11%
2020	20.77%	14.73%	14.53%	15.20%	24.05%	34.84%
2021	26.32%	15.74%	8.89%	11.65%	17.57%	23.48%
2022	-19.19%	-15.86%	-12.84%	-6.09%	-8.17%	-10.19%
2023	26.42%	17.66%	12.38%	12.51%	14.02%	15.40%
2024	10.16%	4.77%	3.75%	8.38%	8.38%	8.38%
+/- S&P YTD:	0.0%	-5.4%		-1.8%	-1.8%	
CAGR	11.9%	10.0%	9.0%	9.1%	11.1%	13.3%



Strategy Fact Sheets

randy@dualmomentumsystems.com

A fixed allocation strategy rebalanced annually

Investment selection for April 2024:

IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20%

Tax friendliness:

Bamboo Portfolio has mostly Long Term Cap Gains.

Average number of trades per year (including Rebalancing) 1.00

Portfolio size appropriateness:

Whale, Bamboo Portfolio can be used for any sized portfolio.

Characteristics:

Drawdowns: Bamboo Portfolio has more conservative drawdowns than the S&P and very similar to 60/40. Volatility: Bamboo Portfolio is usually less volatile than the S&P and 60/40over time. Returns: Bamboo Portfolio will perform more similar to a 60/40, but can outperform it and the S&P over longer cycles. Leverage: Bamboo Portfolio never uses any leverage.

Annualized Returns, actual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo Portfolio	8.38%	17.48%	7.96%	10.53%	7.88%	7.14%	9.14%
Balanced 60/40	4.77%	17.79%	5.85%	9.21%	8.44%	6.23%	9.98%
S&P 500	10.39%	29.61%	11.34%	14.97%	12.86%	7.32%	11.83%

Maximum Drawdrown, single largest drawdown.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo Portfolio	0	-3.74%	-8.38%	-8.38%	-8.38%	-16.44%	-16.44%
Balanced 60/40	0	-6.84%	-20.09%	-20.09%	-20.09%	-32.33%	-32.33%
S&P 500	0	-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.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo Portfolio	-	1.49	3.14	2.81	2.67	3.55	3.04
Balanced 60/40	-	2.38	9.01	7.25	5.32	7.93	6.23
S&P 500	-	2.93	9.89	8.37	6.39	16.37	12.83

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

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo Portfolio	N/A	3.15	0.52	0.93	0.54	0.39	0.78
Balanced 60/40	N/A	2.26	0.14	0.50	0.49	0.18	0.73
S&P 500	N/A	3.54	0.59	0.86	0.79	0.27	0.69

Dual Momentum Systems: LT Gain+

\$8.00

Bamboo Portfolio vs Benchmarks | 2000+ Equity Chart | logarithmic scale chart

Strategy Description:

The Bamboo Portfolio allocations strategies are for somebody who doesn't want straight up S&P, or a 60/40, but they want something not as volatile and with as much downside as holding the S&P, but also something that is more suited to the changing market conditions than is a 60/40. The base Bamboo Portfolio never uses any leverage, the Bamboo+ Portfolio uses 2X Leverage only for the 55% US Large Cap position using the Smart Leverage rules of the Dual Momentum Strategies, and the Bamboo++ Portfolio uses 3X Leverage using Smart Leverage.

Leverage	2000+
Average	100%
Maximum	100%

Metric	2000+
Beta	0.39
Alpha	4.05%

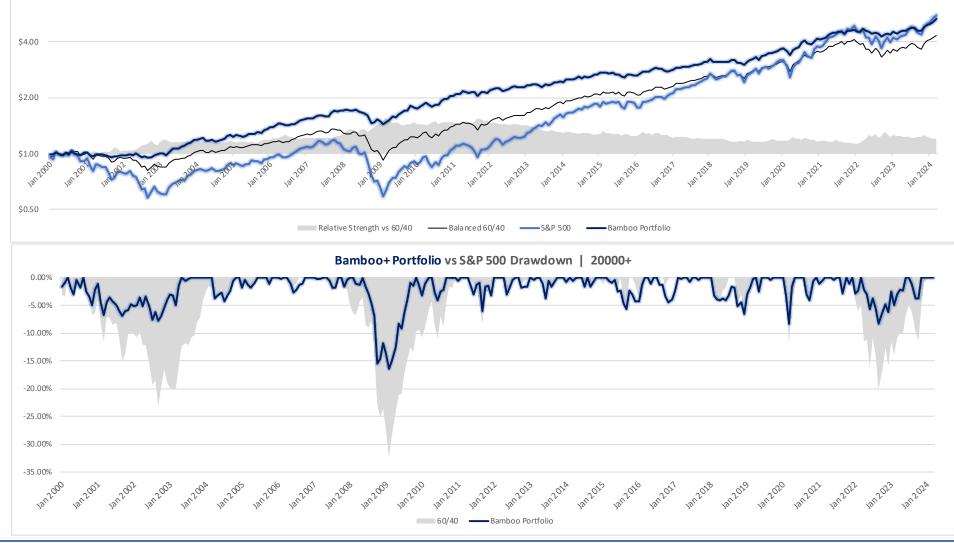
Mininum, Average, and Maximum monthly performance.

	Bamboo	Bamboo+	Bamboo++
MIN	-9.2%	-9.16%	-9.16%
AVE	0.5%	0.58%	0.70%
MAX	9.4%	11.61%	16.51%

Allocation Stats from 1980+

	Bamboo	Bamboo+	Bamboo++
Winning Months	346	342	342
Ave Winning Month	1.01%	1.18%	1.35%
Total Gain	686%	809%	950%
Net Gain	402%	487%	584%
Win to Loss Ratio	2.42	2.52	2.59
Gain to Pain Ratio	1.42	1.52	1.59
Losing Months	185	189	189
Ave Losing Month	-1.53%	-1.70%	-1.94%
Total Loss	-284%	-322%	-366%

Bamboo Portfolio inception date Mar 2024.



Bamboo Portfolio inception date June 2023.

A fixed allocation strategy rebalanced annually

Investment selection for April 2024:

IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20%

Tax friendliness:

Bamboo+ Portfolio has mostly Long Term Cap Gains.

Average number of trades per year (including Rebalancing) 1.69

Portfolio size appropriateness:

Whale, Bamboo+ Portfolio can be used for any sized portfolio.

Characteristics:

Drawdowns: Bamboo+ Portfolio has more conservative drawdowns than the S&P and very similar to 60/40. Volatility: Bamboo+ Portfolio is usually less volatile than the S&P and 60/40over time. Returns: Bamboo+ Portfolio will perform more similar to a 60/40, but can outperform it and the S&P over longer cycles. Leverage: Bamboo+ Portfolio never uses any leverage.

Annualized Returns, actual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo+ Portfolio	8.38%	18.20%	8.64%	13.14%	9.14%	9.12%	11.12%
Balanced 60/40	4.77%	17.79%	5.85%	9.21%	8.44%	6.23%	9.98%
S&P 500	10.39%	29.61%	11.34%	14.97%	12.86%	7.32%	11.83%

Maximum Drawdrown, single largest drawdown.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo+ Portfolio	0	-7.17%	-8.38%	-8.38%	-8.38%	-16.44%	-16.44%
Balanced 60/40	0	-6.84%	-20.09%	-20.09%	-20.09%	-32.33%	-32.33%
S&P 500	0	-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.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo+ Portfolio	-	3.00	3.76	3.37	2.98	3.83	3.24
Balanced 60/40	-	2.38	9.01	7.25	5.32	7.93	6.23
S&P 500	-	2.93	9.89	8.37	6.39	16.37	12.83

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

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo+ Portfolio	N/A	1.96	0.53	1.15	0.70	0.70	1.07
Balanced 60/40	N/A	2.26	0.14	0.50	0.49	0.18	0.73
S&P 500	N/A	3.54	0.59	0.86	0.79	0.27	0.69

Dual Momentum Systems: LT Gain+

Bamboo+ Portfolio vs Benchmarks | 2000+ Equity Chart | logarithmic scale chart

Strategy Description:

The Bamboo Portfolio allocations strategies are for somebody who doesn't want straight up S&P, or a 60/40, but they want something not as volatile and with as much downside as holding the S&P, but also something that is more suited to the changing market conditions than is a 60/40. The base Bamboo Portfolio never uses any leverage, the Bamboo+ Portfolio uses 2X Leverage only for the 55% US Large Cap position using the Smart Leverage rules of the Dual Momentum Strategies, and the Bamboo++ Portfolio uses 3X Leverage using Smart Leverage.

Leverage	2000+
Average	109%
Maximum	140%

Metric	2000+
Beta	0.47
Alpha	5.49%

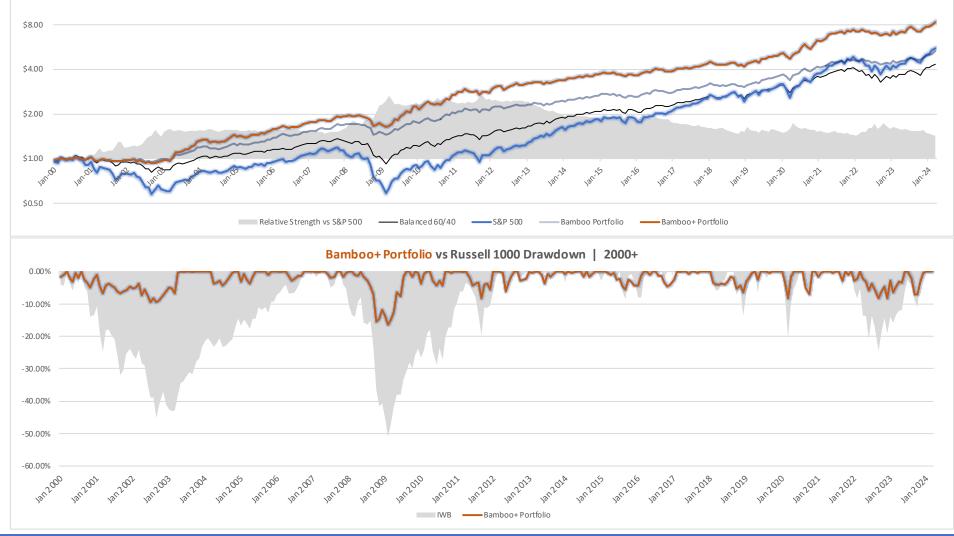
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Ave Losing Month	-1.53%	-1.70%	-1.94%
Total Loss	-284%	-322%	-366%

Bamboo Portfolio inception date Mar 2024.



Bamboo+ Portfolio inception date June 2023.

A fixed allocation strategy rebalanced annually

Investment selection for April 2024:

IWB: 40%, BND: 20%, DBMF: 20%, SGOL: 20%

Tax friendliness:

Bamboo++ Portfolio has mostly Long Term Cap Gains.

Average number of trades per year (including Rebalancing) 1.69

Portfolio size appropriateness:

Whale, Bamboo++ Portfolio can be used for any sized portfolio.

Characteristics:

Drawdowns: Bamboo++ Portfolio has more conservative drawdowns than the S&P and very similar to 60/40. Volatility: Bamboo++ Portfolio is usually less volatile than the S&P and 60/40over time. Returns: Bamboo++ Portfolio will perform more similar to a 60/40, but can outperform it and the S&P over longer cycles.

Leverage: Bamboo++ Portfolio never uses any leverage.

Annualized Returns , actual YTD for current year.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo++ Portfolio	8.38%	18.73%	9.29%	15.94%	10.48%	11.31%	13.29%
Balanced 60/40	4.77%	17.79%	5.85%	9.21%	8.44%	6.23%	9.98%
S&P 500	10.39%	29.61%	11.34%	14.97%	12.86%	7.32%	11.83%

Maximum Drawdrown , single largest drawdown.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo++ Portfolio	0	-10.81%	-10.81%	-10.81%	-10.81%	-16.44%	-16.44%
Balanced 60/40	0	-6.84%	-20.09%	-20.09%	-20.09%	-32.33%	-32.33%
S&P 500	0	-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.

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo++ Portfolio	-	5.00	4.70	4.20	3.47	4.30	3.62
Balanced 60/40	-	2.38	9.01	7.25	5.32	7.93	6.23
S&P 500	-	2.93	9.89	8.37	6.39	16.37	12.83

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

Investment	YTD	1 Year	3 Year	5 Year	10 Year	2000+	1980+
Bamboo++ Portfolio	N/A	1.45	0.53	1.28	0.82	0.95	1.29
Balanced 60/40	N/A	2.26	0.14	0.50	0.49	0.18	0.73
S&P 500	N/A	3.54	0.59	0.86	0.79	0.27	0.69

Dual Momentum Systems: LT Gain+

Bamboo++ Portfolio vs Benchmarks | 2000+ Equity Chart | logarithmic scale chart

Strategy Description:

The Bamboo Portfolio allocations strategies are for somebody who doesn't want straight up S&P, or a 60/40, but they want something not as volatile and with as much downside as holding the S&P, but also something that is more suited to the changing market conditions than is a 60/40. The base Bamboo Portfolio never uses any leverage, the Bamboo+ Portfolio uses 2X Leverage only for the 55% US Large Cap position using the Smart Leverage rules of the Dual Momentum Strategies, and the Bamboo++ Portfolio uses 3X Leverage using Smart Leverage.

Leverage	2000+
Average	109%
Maximum	140%

Metric	2000+		
Beta	0.47		
Alpha	5.49%		

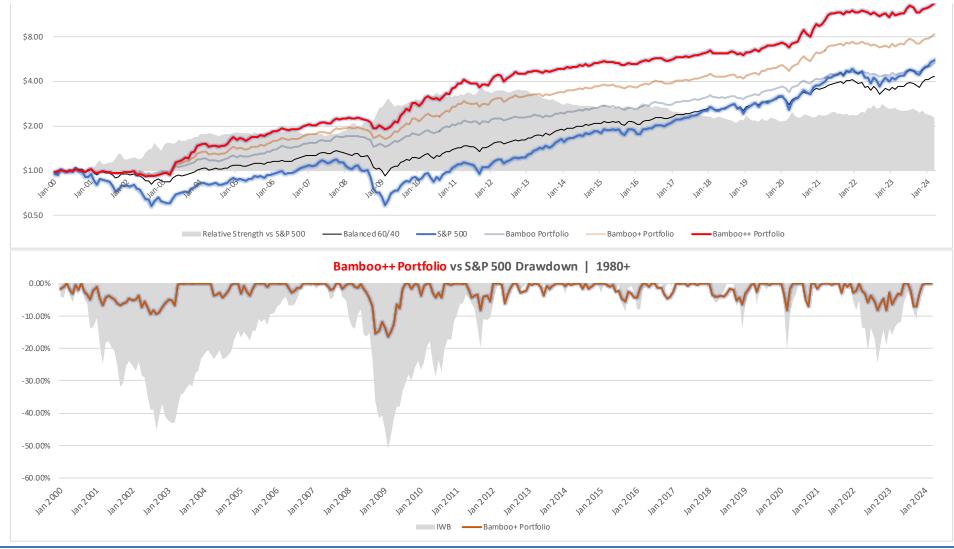
Mininum, Average, and Maximum monthly performance.

	Bamboo	Bamboo+	Bamboo++
MIN	-9.2%	-9.16%	-9.16%
AVE	0.5%	0.58%	0.70%
MAX	9.4%	11.61%	16.51%

Allocation Stats from 1980+

	Bamboo	Bamboo+	Bamboo++
Winning Months	346	342	342
Ave Winning Month	1.01%	1.18%	1.35%
Total Gain	686%	809%	950%
Net Gain	402%	487%	584%
Win to Loss Ratio	2.42	2.52	2.59
Gain to Pain Ratio	1.42	1.52	1.59
Losing Months	185	189	189
Ave Losing Month	-1.53%	-1.70%	-1.94%
Total Loss	-284%	-322%	-366%

Bamboo Portfolio inception date Mar 2024.

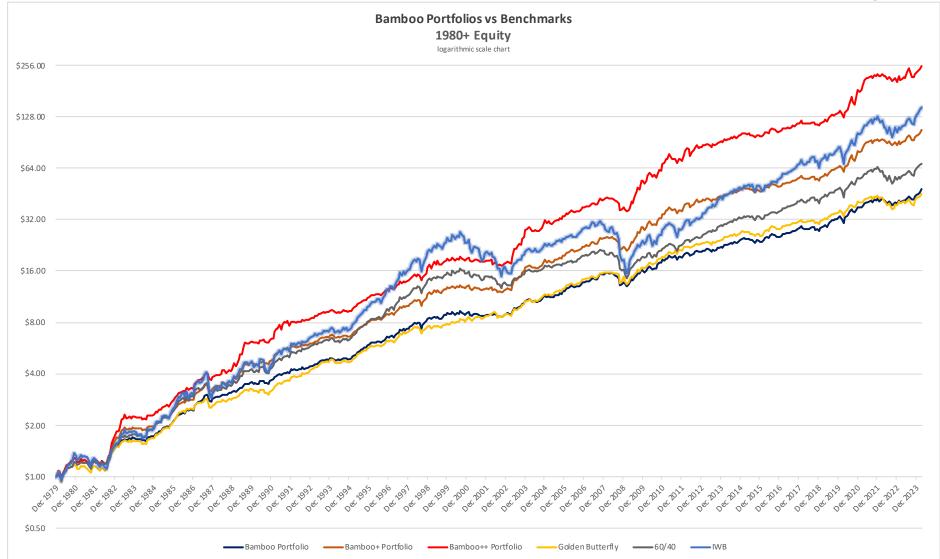


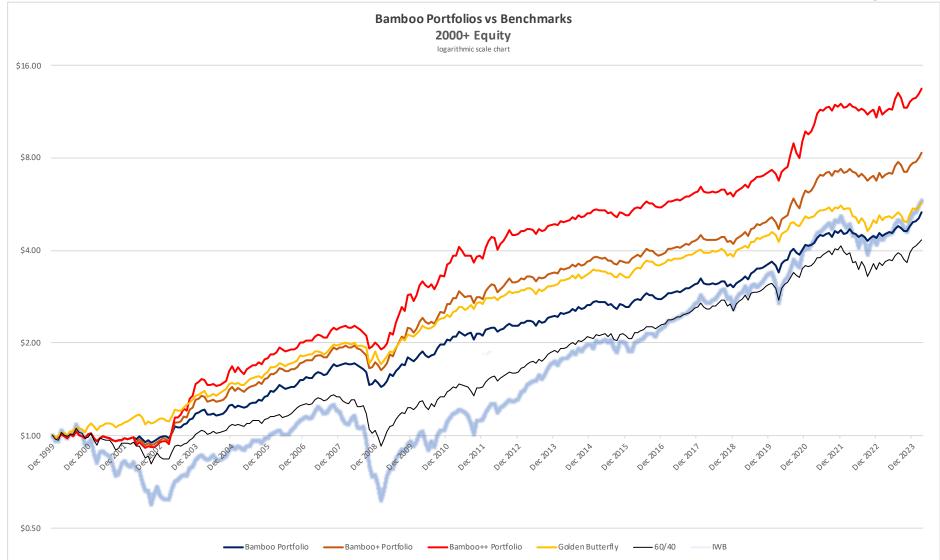
Bamboo++ Portfolio inception date June 2023.



Equity & Return Charts

randy@dualmomentumsystems.com





Metrics, Annual Returns and Correlations

CAGR: Compound Annual Growth Rate, on average how much the strategy has returned per year

Ulcer Performance Index: A risk adjusted performance ratio which uses the Ulcer Index in it's calculations

Sortino Ratio: A risk adjusted performance ratio commonly used

Gain to Pain: Used by the famous Jack Schwager, simply the total net gain divided by net loses along the way

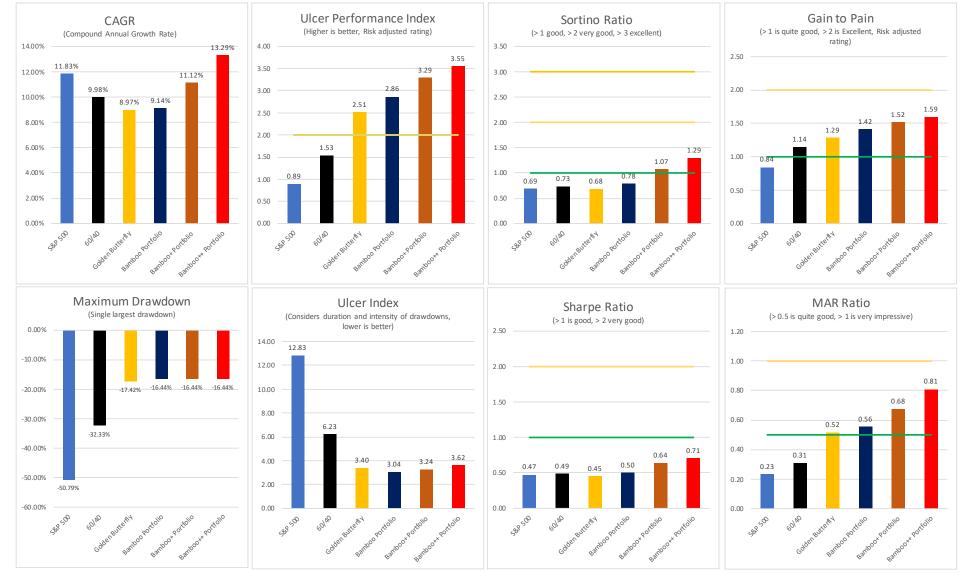
Maximum Drawdown: The largest negative drawdown for the strategy, on a month end basis

Ulcer Index: Measures how bad drawdowns are for an investment, not related to gains, just drawdowns

Sharpe Ratio: A commonly used risk adjusted performance measure, however, it penalizes for upside volatility

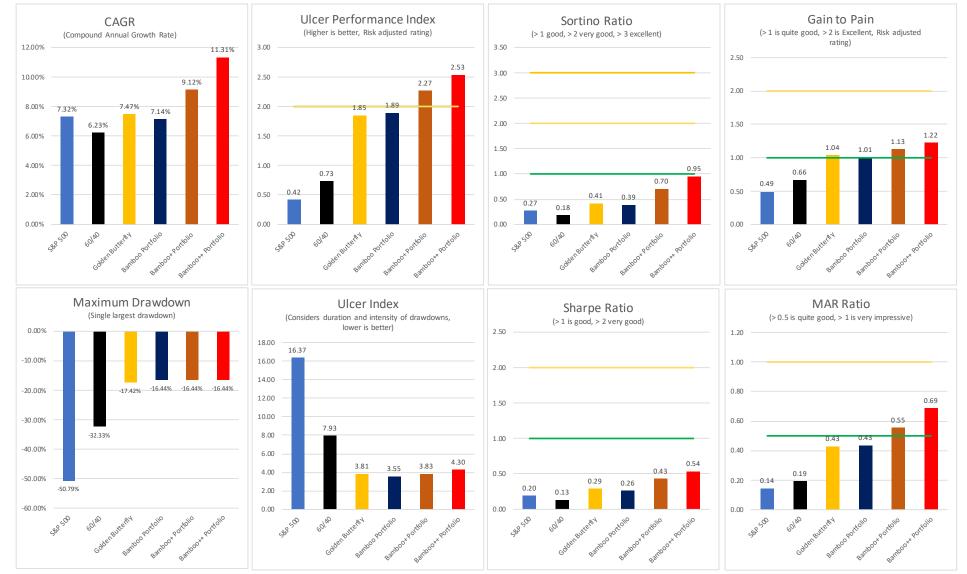
MAR Ratio: A risk adjusted performance ratio, uses maximum drawdown in it's calculations

Metrics Comparisons: Bamboo Portfolios vs S&P 500 & 60/40 & Golden Butterfly 1980 to current



All Metrics are calculated from Monthly returns

Metrics Comparisons: Bamboo Portfolios vs S&P 500 & 60/40 & Golden Butterfly 2000 to current



All Metrics are calculated from Monthly returns

36 Month Strategy Return Correlations

	←Conservative				Aggressive \rightarrow	
	S&P 500	Balanced 60/40	Golden Butterfly	Bamboo Portfolio	Bamboo+ Portfolio	Bamboo++ Portfolio
S&P 500	1.00					
Balanced 60/40	0.99	1.00				
Golden Butterfly	0.90	0.94	1.00			
Bamboo Portfolio	0.89	0.88	0.92	1.00		
Bamboo+ Portfolio	0.85	0.84	0.88	0.96	1.00	
Bamboo++ Portfolio	0.79	0.78	0.98	0.89	0.98	1.00

Thank you for your time, my hope is that these strategies may help you grow your investments more than a market index fund, with less drawdowns along the way.

Countless hours of thought, development, and modeling have gone into the DMS strategies which were inspired from the work of Gary Antonacci at www.OptimalMomentum.com. I have entrusted my invested net worth into these strategies, I am not looking to gain from anybody else who choose to use them, I simply want to share what I think are fantastic ways to invest money for the long run. Receive the strategy information free by emailin me and getting on the distribution list, your information is kept private.



Extended Data & Out of Sample

Extended Data

The strategies use ETF monthly total return data. Leveraged ETF data is used as far back as it is available, it is simulate using the available daily return total data to extend the leverage returns back in time. At this time, only the leveraged S&P 500 from 1970 through 1979 had to be simulated on monthly data instead of daily, if that information becomes available to me it will be updated. This deck is reporting back to 1980 for all strategies, I do have Global Navigator and LT Gain 3 back to 1970 but as mentioned the extended data for the 1970's should based on daily returns.

The Nasdaq 100 benchmark data is based on Nasdaq 100 back to 1986, however, it didn't exist or data can't be found before that time, so the Nasdaq Composite is used pre-1986 as a proxy. I couldn't reliably emulate Nasdaq 100 from Nasdaq comp.

In Sample, and Out of Sample

The strategies were created with available data from 2000 through the time each strategy was created. Because this data was available and used in the modeling of each strategy, it is considered "In Sample". "Out of Sample" is the perio that the strategy is looking at for which returns were not available when the strategies were created. 1980 through 2000, and from when the strategy was finalized forward is all out of sample.

Nothing was changed to any of the strategies after seeing the additional 20 years from 1980 through 2000, nor were any of the strategies changed or modified due to any returns which have resulted after the strategies were created. I use these strategies myself to invest my hard earned dollars in them, I don't want to fool anybody, most especially not myse by tweaking the strategies to handle some big incident better than it was originally designed to do, no data mining!