2026 BOGLEHEADS CONFERENCE

To Tilt or Not to Tilt

The Great Debate

Paul A. Merriman & James M. Dahle



The Case for a Small Value Tilt

Paul Merriman

5 Minutes


Compare
Data Type
Events
Indicators
Fundamentals
Display
TIME PERIOD
START DATE
2/29/2000
END DATE
10/13/2026
FREQUENCY
Daily
VTSAX +80,121.86 | +801.22%
USD
100,000.00
80,000.00
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90,121.86
2000
2005
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2025
USD | MSTARFund | End of Date as of Oct 13, 2026


Compare
Data Type
Events
Indicators
Fundamentals
Display
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2/29/2000
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FREQUENCY
Daily
VTSAX +80,121.86 | +801.22%
VFIAX +82,377.72 | +823.78%
USD
100,000.00
80,000.00
60,000.00
40,000.00
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92,377.72
2000
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USD | MSTARFund | End of Date as of Oct 13, 2026


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FREQUENCY
Daily
VTSAX +80,121.86 | +801.22%
VFIAX +82,377.72 | +823.78%
DFSVX +129,282.28 | +1,292.82%
USD
150,000.00
120,000.00
90,000.00
60,000.00
30,000.00
0.00
139,282.28
92,377.72
2000
2005
2010
2015
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2025
USD | MSTARFund | End of Date as of Oct 13, 2026


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VFIAX +82,377.72 | +823.78%
DFSVX +129,282.28 | +1,292.82%
DFFVX +160,424.85 | +1,604.25%
USD
200,000.00
160,000.00
120,000.00
80,000.00
40,000.00
0.00
2000
2005
2010
2015
2020
2025
170,424.85
139,282.28
92,377.72
USD | MSTARFund | End of Date as of Oct 13, 2026

The Case for Total Market Investing

Jim Dahle

5 Minutes

You Don’t Have a Time Machine

- 15 Year Trailing Returns (as of Oct 2026)
- VTI 15.23%
- DFSVX 12.56% (before advisory fees)

“Don’t look for a needle in the haystack. Just buy the haystack!”

—Jack Bogle

Expenses of Small Value Investing

- FZROX 0%
- FSKAX 0.015%
- VTI 0.03%
- SCHB 0.03%
- ITOT 0.03%

- DFSVX/DFSV 0.31%
- AVUV 0.25%
- VBR 0.05%
- VTWV 0.06%
- VIOV 0.10%
- RZV 0.35%
- IWN 0.24%
- SVAL 0.20%
- +/- advisory fees

Taxes of Small Value Investing

Tax Efficiency of Various Funds		
Fund	Turnover	Yield
VTI	3%	1.03%
VBR	25%	2.05%
AVUV	6%	1.38%
DFSV	7%	1.48%
IWN	30%	1.55%

The Argument for Total Market Investing

	Total Market Approach	Small Value Tilt
Returns*	Higher	Lower
Taxes	Lower	Higher
Complexity	Lower	Higher
Behavior	Easier	Harder
*period dependent		

Rebuttal

Paul A. Merriman

3 minutes

Large Cap Blend

Large Cap Value

Small Cap Blend

Small Cap Value

4 Fund Combo

Table K1a - 4 US Asset Class Indexes & 4 Fund Combo Relative Return Ranking (1928-2025)

Quintile Rank	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937
1	S&P 500 43.6%	LCV 2.8%	S&P 500 -24.9%	S&P 500 -43.3%	S&P 500 -8.2%	SCV 124.7%	SCB 15.6%	SCB 56.1%	SCV 66.6%	S&P 500 -35.0%
2	SCB 42.8%	S&P 500 -8.4%	LCV -34.1%	SCB -46.3%	4 Fund -10.3%	SCB 111.2%	4 Fund -0.2%	4 Fund 48.5%	SCB 52.6%	LCV -36.6%
3	4 Fund 35.8%	4 Fund -19.2%	4 Fund -34.7%	4 Fund -51.5%	SCV -10.5%	4 Fund 95.6%	S&P 500 -1.4%	SCV 47.7%	4 Fund 50.5%	4 Fund -42.6%
4	SCV 32.0%	SCB -34.0%	SCB -36.3%	SCV -55.4%	LCV -10.7%	LCV 92.5%	SCV -6.2%	S&P 500 47.7%	LCV 49.1%	SCB -48.3%
5	LCV 24.6%	SCV -37.0%	SCV -43.5%	LCV -61.1%	SCB -11.8%	S&P 500 54.0%	LCV -8.7%	LCV 42.4%	S&P 500 33.9%	SCV -50.5%

Quintile Rank	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
1	SCB 39.8%	S&P 500 -0.4%	SCB -3.6%	LCV 1.0%	SCV 34.1%	SCV 78.6%	SCV 52.6%	SCV 65.4%	LCV -6.3%	SCV 8.8%
2	SCV 32.6%	SCB -0.8%	LCV -5.4%	SCV -0.2%	4 Fund 25.4%	SCB 56.9%	SCB 42.1%	SCB 64.0%	S&P 500 -8.1%	LCV 7.2%
3	S&P 500 31.1%	4 Fund -2.5%	4 Fund -6.7%	4 Fund -5.5%	SCB 25.3%	4 Fund 48.1%	4 Fund 36.0%	4 Fund 51.9%	4 Fund -8.7%	S&P 500 5.7%
4	4 Fund 30.4%	SCV -3.8%	SCV -8.1%	SCB -11.0%	LCV 22.0%	LCV 31.0%	LCV 29.7%	LCV 41.9%	SCB -9.9%	4 Fund 5.3%
5	LCV 18.1%	LCV -4.9%	S&P 500 -9.8%	S&P 500 -11.6%	S&P 500 20.3%	S&P 500 25.9%	S&P 500 19.7%	S&P 500 36.4%	SCV -10.5%	SCB -0.7%

Quintile Rank	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957
1	S&P 500 5.5%	SCB 20.8%	SCV 63.4%	S&P 500 24.0%	S&P 500 18.4%	S&P 500 -1.0%	SCV 64.3%	S&P 500 31.5%	SCB 8.2%	S&P 500 -10.8%
2	LCV 1.5%	SCV 19.7%	LCV 47.2%	LCV 19.2%	LCV 15.0%	SCB -3.0%	LCV 63.5%	4 Fund 25.0%	LCV 7.2%	LCV -14.1%
3	4 Fund -0.8%	S&P 500 18.8%	4 Fund 45.4%	4 Fund 16.7%	4 Fund 13.0%	4 Fund -5.0%	4 Fund 59.8%	LCV 23.6%	S&P 500 6.6%	4 Fund -14.6%
4	SCV -4.9%	4 Fund 18.7%	SCB 39.2%	SCB 13.8%	SCB 9.7%	LCV -5.3%	SCB 58.9%	SCV 23.5%	4 Fund 6.0%	SCB -14.8%
5	SCB -5.4%	LCV 15.5%	S&P 500 31.7%	SCV 9.9%	SCV 9.0%	SCV -10.6%	S&P 500 52.6%	SCB 21.3%	SCV 1.8%	SCV -18.6%

Quintile Rank	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
1	SCV 77.3%	SCB 19.3%	S&P 500 0.5%	SCB 29.8%	LCV -4.4%	SCV 29.5%	SCV 25.2%	SCV 40.0%	LCV -5.7%	SCB 79.1%
2	SCB 61.3%	SCV 15.2%	LCV -0.2%	SCV 29.3%	S&P 500 -8.7%	LCV 24.7%	4 Fund 19.6%	SCB 37.4%	SCB -7.3%	SCV 69.8%
3	4 Fund 57.5%	4 Fund 14.2%	SCB -2.7%	4 Fund 27.9%	4 Fund -9.8%	4 Fund 23.5%	LCV 18.9%	4 Fund 26.8%	4 Fund -8.1%	4 Fund 49.4%
4	LCV 48.1%	S&P 500 12.0%	4 Fund -3.3%	S&P 500 26.9%	SCV -10.3%	S&P 500 22.8%	SCB 17.6%	LCV 17.4%	SCV -9.6%	LCV 24.8%
5	S&P 500 43.4%	LCV 10.2%	SCV -10.8%	LCV 25.6%	SCB -15.7%	SCB 17.0%	S&P 500 16.5%	S&P 500 12.5%	S&P 500 -10.0%	S&P 500 24.0%

Quintile Rank	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
1	SCV 49.1%	S&P 500 -8.5%	LCV 11.0%	SCB 20.3%	S&P 500 19.0%	LCV -8.8%	LCV -17.6%	SCV 65.6%	SCV 58.4%	SCB 22.8%
2	SCB 40.0%	LCV -18.1%	S&P 500 4.0%	SCV 15.4%	LCV 17.1%	S&P 500 -14.7%	SCV -17.9%	SCB 54.4%	SCB 48.0%	SCV 22.2%
3	4 Fund 30.7%	4 Fund -20.7%	4 Fund 0.3%	4 Fund 14.9%	4 Fund 12.0%	4 Fund -22.5%	4 Fund -22.2%	4 Fund 51.5%	LCV 43.9%	4 Fund 9.6%
4	LCV 22.5%	SCB -27.3%	SCV -0.3%	S&P 500 14.3%	SCV 7.6%	SCV -30.0%	S&P 500 -26.5%	LCV 48.9%	4 Fund 43.6%	LCV 0.6%
5	S&P 500 11.1%	SCV -28.8%	SCB -13.5%	LCV 9.4%	SCB 4.3%	SCB -36.7%	SCB -27.0%	S&P 500 37.2%	S&P 500 23.8%	S&P 500 -7.2%

Quintile Rank	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
1	SCV 23.4%	SCB 38.8%	SCB 37.2%	SCV 20.5%	SCV 36.9%	SCV 48.9%	LCV 13.2%	SCB 32.8%	LCV 19.2%	LCV 5.5%
2	SCB 22.2%	SCV 35.2%	S&P 500 32.4%	LCV 9.1%	SCB 30.6%	SCB 38.8%	S&P 500 6.3%	S&P 500 32.2%	S&P 500 18.5%	S&P 500 5.2%
3	4 Fund 15.0%	4 Fund 29.6%	4 Fund 28.7%	4 Fund 7.6%	4 Fund 27.2%	4 Fund 35.6%	4 Fund 4.5%	4 Fund 31.5%	4 Fund 13.6%	4 Fund -0.8%
4	LCV 7.8%	LCV 26.1%	SCV 24.6%	SCB 5.7%	S&P 500 21.4%	LCV 32.1%	SCV 2.1%	LCV 30.7%	SCB 8.5%	SCV -5.3%
5	S&P 500 6.6%	S&P 500 18.4%	LCV 20.7%	S&P 500 -4.9%	LCV 19.9%	S&P 500 22.5%	SCB -3.5%	SCV 30.2%	SCV 8.3%	SCB -8.7%

Quintile Rank	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	SCV 34.3%	S&P 500 31.5%	S&P 500 -3.1%	SCV 47.2%	SCV 34.9%	SCV 26.2%	LCV 2.5%	LCV 41.4%	LCV 27.0%	SCV 39.2%
2	LCV 28.5%	LCV 31.0%	LCV -14.8%	SCB 46.6%	SCB 24.1%	LCV 21.3%	SCV 2.5%	S&P 500 37.6%	SCV 25.1%	LCV 36.7%
3	4 Fund 26.4%	4 Fund 22.5%	4 Fund -15.4%	4 Fund 38.7%	4 Fund 20.8%	SCB 20.7%	4 Fund 1.5%	4 Fund 35.4%	4 Fund 24.3%	4 Fund 34.7%
4	SCB 26.0%	SCB 14.0%	SCB -20.2%	S&P 500 30.5%	LCV 16.5%	4 Fund 19.6%	S&P 500 1.3%	SCB 31.4%	S&P 500 23.0%	S&P 500 33.4%
5	S&P 500 16.8%	SCV 13.3%	SCV -23.6%	LCV 30.5%	S&P 500 7.6%	S&P 500 10.1%	SCB -0.2%	SCV 31.4%	SCB 22.2%	SCB 29.5%

Quintile Rank	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
1	S&P 500 28.6%	SCB 22.9%	SCV 19.7%	SCV 28.4%	SCV -6.8%	SCV 67.1%	SCV 23.3%	LCV 11.0%	SCV 21.2%	S&P 500 5.5%
2	LCV 8.4%	S&P 500 21.0%	LCV 13.2%	SCB 14.7%	SCB -13.0%	SCB 55.7%	SCB 22.3%	4 Fund 7.8%	LCV 20.7%	SCB -5.1%
3	4 Fund 7.4%	4 Fund 15.1%	4 Fund 7.1%	4 Fund 8.3%	LCV -13.7%	4 Fund 47.4%	LCV 19.4%	SCV 7.6%	SCB 19.4%	4 Fund -5.6%
4	SCB -2.3%	LCV 8.7%	SCB 4.7%	LCV 2.0%	4 Fund -13.9%	LCV 38.3%	4 Fund 19.0%	SCB 7.4%	4 Fund 19.3%	LCV -10.2%
5	SCV -5.1%	SCV 7.8%	S&P 500 -9.1%	S&P 500 -11.9%	S&P 500 -22.1%	S&P 500 28.7%	S&P 500 10.9%	S&P 500 4.9%	S&P 500 15.8%	SCV -12.5%

Quintile Rank	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
1	SCB -36.3%	SCV 49.6%	SCV 31.3%	S&P 500 2.1%	LCV 20.8%	SCB 44.8%	S&P 500 13.7%	S&P 500 1.4%	SCV 37.3%	S&P 500 21.8%
2	SCV -36.6%	SCB 39.1%	SCB 29.7%	LCV -2.6%	SCB 18.5%	SCV 42.6%	LCV 9.7%	LCV -3.8%	SCB 26.8%	LCV 16.9%
3	S&P 500 -37.0%	4 Fund 36.0%	4 Fund 23.9%	4 Fund -2.6%	4 Fund 18.2%	4 Fund 39.7%	4 Fund 7.8%	4 Fund -3.9%	4 Fund 25.0%	4 Fund 14.9%
4	4 Fund -38.2%	LCV 28.9%	LCV 19.5%	SCB -4.2%	SCV 17.3%	LCV 38.9%	SCB 4.3%	SCB -5.4%	LCV 24.0%	SCB 13.3%
5	LCV -42.8%	S&P 500 26.5%	S&P 500 15.1%	SCV -5.8%	S&P 500 16.0%	S&P 500 32.4%	SCV 3.4%	SCV -7.9%	S&P 500 12.0%	SCV 7.6%

Quintile Rank	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
1	S&P 500 -4.4%	S&P 500 31.5%	S&P 500 18.4%	SCV 42.6%	SCV -4.9%	S&P 500 26.3%	S&P 500 25.0%	S&P 500 17.9%		
2	4 Fund -10.8%	LCV 28.1%	SCB 15.2%	4 Fund 31.3%	LCV -7.1%	4 Fund 18.9%	4 Fund 14.7%	LCV 16.4%		
3	SCB -12.6%	4 Fund 25.5%	4 Fund 8.8%	S&P 500 28.7%	4 Fund -11.0%	SCB 18.5%	LCV 13.3%	4 Fund 12.2%		
4	SCV -12.6%	SCB 23.5%	SCV 3.8%	LCV 27.5%	SCB -13.8%	SCV 15.7%	SCB 11.9%	SCB 8.4%		
5	LCV -13.5%	SCV 19.1%	LCV -2.1%	SCB 26.4%	S&P 500 -18.1%	LCV 15.0%	SCV 8.7%	SCV 6.2%		

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Table K1a - 4 US Asset Class Indexes & 4 Fund Combo Relative Return Ranking (1928-2025)

Quintile Rank	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
1	S&P 500 -4.4%	S&P 500 31.5%	S&P 500 18.4%	SCV 42.6%	SCV -4.9%	S&P 500 26.3%	S&P 500 25.0%	S&P 500 17.9%		
2	4 Fund -10.8%	LCV 28.1%	SCB 15.2%	4 Fund 31.3%	LCV -7.1%	4 Fund 18.9%	4 Fund 14.7%	LCV 16.4%		
3	SCB -12.6%	4 Fund 25.5%	4 Fund 8.8%	S&P 500 28.7%	4 Fund -11.0%	SCB 18.5%	LCV 13.3%	4 Fund 12.2%		
4	SCV -12.6%	SCB 23.5%	SCV 3.8%	LCV 27.5%	SCB -13.8%	SCV 15.7%	SCB 11.9%	SCB 8.4%		
5	LCV -13.5%	SCV 19.1%	LCV -2.1%	SCB 26.4%	S&P 500 -18.1%	LCV 15.0%	SCV 8.7%	SCV 6.2%		

Table K1a - 4 US Asset Class Indexes & 4 Fund Combo Relative Return Ranking (1928-2025)

Quintile Rank	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
1	S&P 500 28.6%	SCB 22.9%	SCV 19.7%	SCV 28.4%	SCV -6.8%	SCV 67.1%	SCV 23.3%	LCV 11.0%	SCV 21.2%	S&P 500 5.5%
2	LCV 8.4%	S&P 500 21.0%	LCV 13.2%	SCB 14.7%	SCB -13.0%	SCB 55.7%	SCB 22.3%	4 Fund 7.8%	LCV 20.7%	SCB -5.1%
3	4 Fund 7.4%	4 Fund 15.1%	4 Fund 7.1%	4 Fund 8.3%	LCV -13.7%	4 Fund 47.4%	LCV 19.4%	SCV 7.6%	SCB 19.4%	4 Fund -5.6%
4	SCB -2.3%	LCV 8.7%	SCB 4.7%	LCV 2.0%	4 Fund -13.9%	LCV 38.3%	4 Fund 19.0%	SCB 7.4%	4 Fund 19.3%	LCV -10.2%
5	SCV -5.1%	SCV 7.8%	S&P 500 -9.1%	S&P 500 -11.9%	S&P 500 -22.1%	S&P 500 28.7%	S&P 500 10.9%	S&P 500 4.9%	S&P 500 15.8%	SCV -12.5%

Table K1b - S&P 500 & US SCV Relative Return Rank Comparison (1928-2025)

Quintile Ranking	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937
1	S&P 500 43.6%		S&P 500 -24.9%	S&P 500 -43.3%	S&P 500 -8.2%	SCV 124.7%			SCV 66.6%	S&P 500 -35.0%
2		S&P 500 -8.4%								
3					SCV -10.5%		S&P 500 -1.4%	SCV 47.7%		
4	SCV 32.0%			SCV -55.4%			SCV -6.2%	S&P 500 47.7%		
5		SCV -37.0%	SCV -43.5%			S&P 500 54.0%			S&P 500 33.9%	SCV -50.5%

Quintile Ranking	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
1		S&P 500 -0.4%			SCV 34.1%	SCV 78.6%	SCV 52.6%	SCV 65.4%		SCV 8.8%
2	SCV 32.6%			SCV -0.2%					S&P 500 -8.1%	
3	S&P 500 31.1%									S&P 500 5.7%
4		SCV -3.8%	SCV -8.1%							
5			S&P 500 -9.8%	S&P 500 -11.6%	S&P 500 20.3%	S&P 500 25.9%	S&P 500 19.7%	S&P 500 36.4%	SCV -10.5%	

Quintile Ranking	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957
1	S&P 500 5.5%		SCV 63.4%	S&P 500 24.0%	S&P 500 18.4%	S&P 500 -1.0%	SCV 64.3%	S&P 500 31.5%		S&P 500 -10.8%
2		SCV 19.7%								
3		S&P 500 18.8%							S&P 500 6.6%	
4	SCV -4.9%							SCV 23.5%		
5			S&P 500 31.7%	SCV 9.9%	SCV 9.0%	SCV -10.6%	S&P 500 52.6%		SCV 1.8%	SCV -18.6%

Quintile Ranking	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
1	SCV 77.3%		S&P 500 0.5%			SCV 29.5%	SCV 25.2%	SCV 40.0%		
2		SCV 15.2%		SCV 29.3%	S&P 500 -8.7%					SCV 69.8%
3										
4		S&P 500 12.0%		S&P 500 26.9%	SCV -10.3%	S&P 500 22.8%			SCV -9.6%	
5	S&P 500 43.4%		SCV -10.8%				S&P 500 16.5%	S&P 500 12.5%	S&P 500 -10.0%	S&P 500 24.0%

Quintile Ranking	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
1	SCV 49.1%	S&P 500 -8.5%			S&P 500 19.0%			SCV 65.6%	SCV 58.4%	
2			S&P 500 4.0%	SCV 15.4%		S&P 500 -14.7%	SCV -17.9%			SCV 22.2%
3										
4			SCV -0.3%	S&P 500 14.3%	SCV 7.6%	SCV -30.0%	S&P 500 -26.5%			
5	S&P 500 11.1%	SCV -28.8%						S&P 500 37.2%	S&P 500 23.8%	S&P 500 -7.2%

Quintile Ranking	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
1	SCV 23.4%			SCV 20.5%	SCV 36.9%	SCV 48.9%				
2		SCV 35.2%	S&P 500 32.4%				S&P 500 6.3%	S&P 500 32.2%	S&P 500 18.5%	S&P 500 5.2%
3										
4			SCV 24.6%		S&P 500 21.4%		SCV 2.1%			SCV -5.3%
5	S&P 500 6.6%	S&P 500 18.4%		S&P 500 -4.9%		S&P 500 22.6%		SCV 30.2%	SCV 8.3%	

Quintile Ranking	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1	SCV 34.3%	S&P 500 31.5%	S&P 500 -3.1%	SCV 47.2%	SCV 34.9%	SCV 26.2%				SCV 39.2%
2							SCV 2.5%	S&P 500 37.6%	SCV 25.1%	
3										
4				S&P 500 30.5%			S&P 500 1.3%		S&P 500 23.0%	S&P 500 33.4%
5	S&P 500 16.8%	SCV 13.3%	SCV -23.6%		S&P 500 7.6%	S&P 500 10.1%		SCV 31.4%		

Quintile Ranking	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
1	S&P 500 28.6%		SCV 19.7%	SCV 28.4%	SCV -6.8%	SCV 67.1%	SCV 23.3%		SCV 21.2%	S&P 500 5.5%
2		S&P 500 21.0%								
3								SCV 7.6%		
4										
5	SCV -5.1%	SCV 7.8%	S&P 500 -9.1%	S&P 500 -11.9%	S&P 500 -22.1%	S&P 500 28.7%	S&P 500 10.9%	S&P 500 4.9%	S&P 500 15.8%	SCV -12.5%

Quintile Ranking	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
1		SCV 49.6%	SCV 31.3%	S&P 500 2.1%			S&P 500 13.7%	S&P 500 1.4%	SCV 37.3%	S&P 500 21.8%
2	SCV -36.6%					SCV 42.6%				
3	S&P 500 -37.0%									
4					SCV 17.3%					
5		S&P 500 26.5%	S&P 500 15.1%	SCV -5.8%	S&P 500 16.0%	S&P 500 32.4%	SCV 3.4%	SCV -7.9%	S&P 500 12.0%	SCV 7.6%

Quintile Ranking	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
1	S&P 500 -4.4%	S&P 500 31.5%	S&P 500 18.4%	SCV 42.6%	SCV -4.9%	S&P 500 26.3%	S&P 500 25.0%	S&P 500 17.9%		
2										
3				S&P 500 28.7%						
4	SCV -12.6%		SCV 3.8%			SCV 15.7%				
5		SCV 19.1%			S&P 500 -18.1%		SCV 8.7%	SCV 6.2%		

Table K7a - Sound Investing Index Port., S&P 500 & US SCV (1928-2025)

- Return Rank Frequency -

			Quintile Rank Frequency				
Portfolio	**Asset Alloc.**	**CAGR**	**1**	**2**	**3**	**4**	**5**
US SCV	100% US SCV	13.1%	**46**	5	4	9	34
			47%	5%	4%	9%	35%
				<---------- **18%** ---------->			
US All Val	50% US SCV 50% US LCV	12.3%	10	**43**	6	25	14
			10%	44%	6%	26%	14%
				<---------- **76%** ---------->			
US 2 Fund	50% US SCV 50% S&P 500	12.0%	0	28	**36**	34	0
			0%	29%	37%	35%	0%
				<---------- **100%** ---------->			
US 4 Fund	25% US SCV 25% US SCB 25% US LCV 25% US LCB	11.9%	3	18	**49**	27	1
			3%	18%	50%	28%	1%
				<---------- **96%** ---------->			
S&P 500	100% S&P 500	10.2%	39	4	3	3	**49**
			40%	4%	3%	3%	50%
				<---------- **10%** ---------->			

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Rebuttal

James M. Dahle

3 Minutes

Period of Time is Extremely Important

- Let’s examine Paul’s charts


TIME PERIOD
START DATE 2/29/2000
END DATE 10/13/2026
FREQUENCY Daily
VTSAX +80,121.86 | +801.22%
VFIAX +82,377.72 | +823.78%
DFSVX +129,282.28 | +1,292.82%
USD
150,000.00
120,000.00
90,000.00
60,000.00
30,000.00
0.00
139,282.28
92,377.72
2000
2005
2010
2015
2020
2025

Time period
Custom

11/13/2010

10/15/2026

Frequency
Monthly

Chart Table

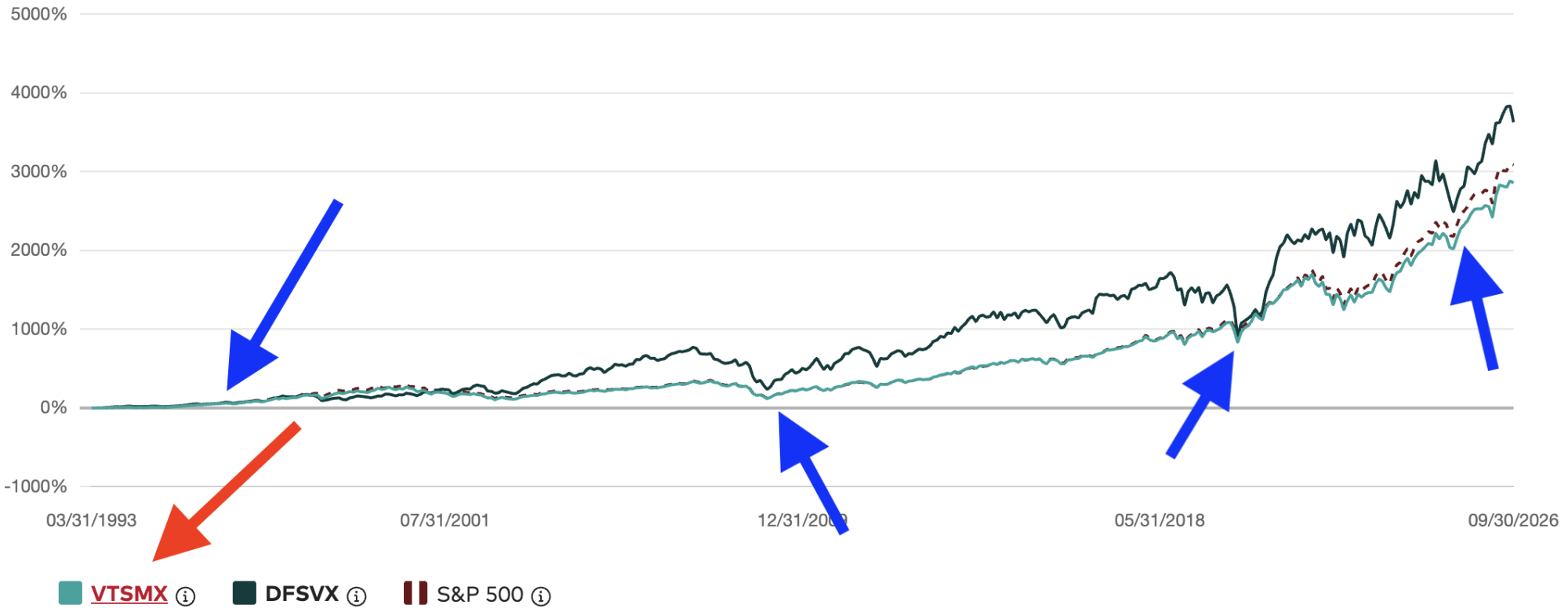


VTSAX 708.00%

DFSVX 416.72%

S&P 500 765.88%

VTSAX DFSVX S&P 500

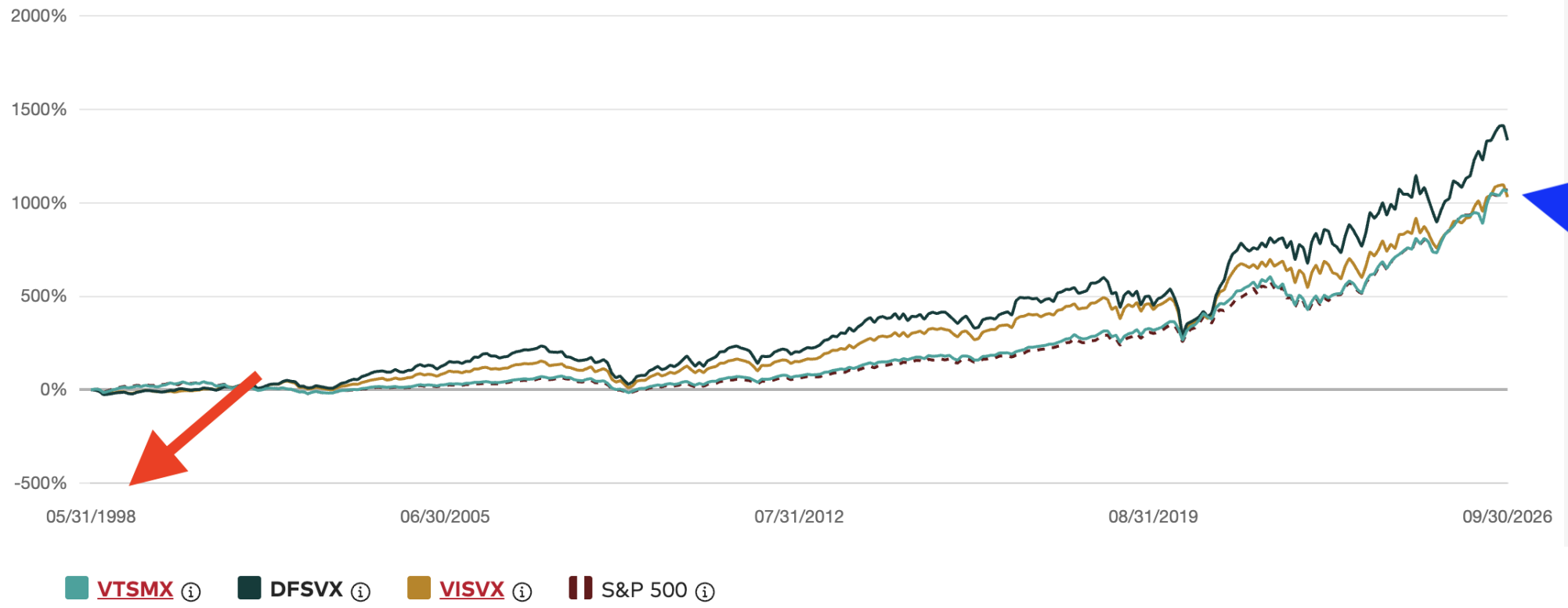


VTSMX	2,858.07%
DFSVX	3,627.92%
S&P 500	3,085.41%

Time period
Earliest common inception

Frequency
Monthly

Chart Table



VTSMX	1,061.80%
DFSVX	1,335.14%
VISVX	1,031.07%
S&P 500	1,068.02%

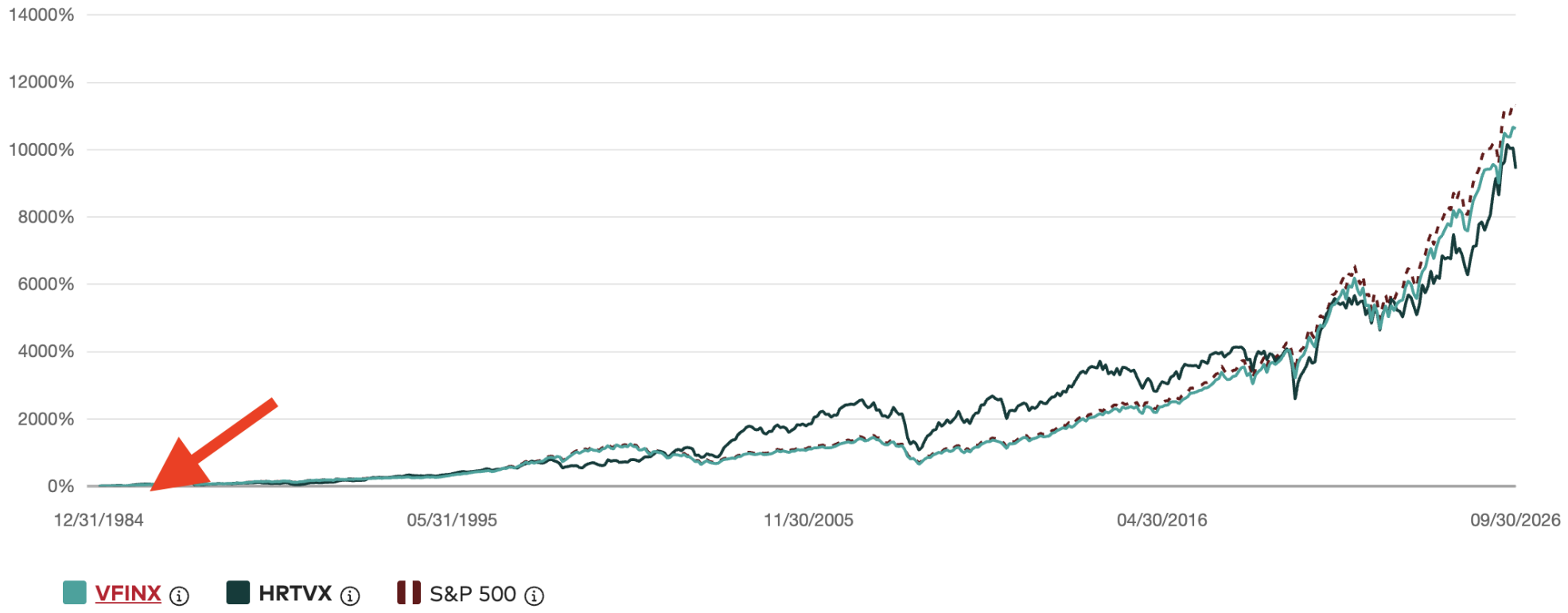
Other Issues

- Was small value really investable before the 1990s?
- HRTVX 1984

Time period
Earliest common inception

Frequency
Monthly

Chart Table



VFINX	10,628.84%
HRTVX	9,438.00%
S&P 500	11,326.46%

Other Issues

- How did DFSVX do if you account for the advisory fee?
- Cumulative return VTI 93-26 2,858% (10.7% annualized)
- Cumulative pre-fee DFSVX 93-26 3,628% (11.5% annualized)
- Now subtract typical 1% fee = 10.5% annualized
- Yes, it's interesting how well small value has theoretically done long term per Fama/French data
- Hasn't outperformed since you could invest in it, even over very long time periods (33 years)
- And that's picking the best SV fund we can find retrospectively

Practical Suggestions for Tilters

Paul A. Merriman

3 Minutes

Table G1b - Fine Tuning Table: S&P 500 vs US SCV Equity Portfolio - Out-Performance

Index returns reduced by a representative fund's expense ratio, except S&P 500 Index shown below.

Year	100% S&P	10/90	20/80	30/70	40/60	50/50	60/40	70/30	80/20	90/10	100% SCV	Out Performance S&P	Out Performance US SCV
1970	4.0%	3.5%	3.0%	2.5%	2.0%	1.5%	0.9%	0.3%	-0.2%	-0.8%	-1.5%	**5.4%**	
1971	14.3%	14.4%	14.6%	14.7%	14.8%	14.8%	14.9%	14.9%	14.9%	14.9%	14.9%		**0.6%**
1972	18.9%	17.8%	16.7%	15.6%	14.5%	13.4%	12.2%	11.1%	9.9%	8.7%	7.6%	**11.4%**	
1973	-14.7%	-16.3%	-17.9%	-19.5%	-21.1%	-22.7%	-24.3%	-25.8%	-27.4%	-28.9%	-30.4%	**15.7%**	
1974	-26.5%	-25.5%	-24.6%	-23.6%	-22.8%	-21.9%	-21.1%	-20.3%	-19.5%	-18.7%	-18.0%		**8.5%**
1975	37.2%	40.0%	42.8%	45.7%	48.5%	51.3%	54.1%	56.9%	59.7%	62.5%	65.2%		**28.1%**
1976	23.8%	27.0%	30.3%	33.6%	37.0%	40.4%	43.9%	47.4%	51.0%	54.6%	58.2%		**34.4%**
1977	-7.2%	-4.6%	-1.9%	0.9%	3.7%	6.6%	9.6%	12.6%	15.8%	18.9%	22.2%		**29.4%**
1978	6.5%	8.2%	9.8%	11.5%	13.1%	14.8%	16.4%	18.0%	19.6%	21.2%	22.8%		**16.3%**
1979	18.4%	20.0%	21.6%	23.3%	24.9%	26.6%	28.2%	29.9%	31.6%	33.3%	35.0%		**16.7%**
1980	32.4%	31.6%	30.8%	30.0%	29.2%	28.3%	27.5%	26.6%	25.7%	24.9%	24.0%	**8.4%**	
1981	-4.9%	-2.6%	-0.3%	2.1%	4.6%	7.1%	9.6%	12.2%	14.8%	17.5%	20.2%		**25.1%**
1982	21.4%	22.9%	24.4%	25.9%	27.5%	29.0%	30.6%	32.1%	33.7%	35.3%	36.8%		**15.5%**
1983	22.5%	25.0%	27.5%	30.1%	32.7%	35.4%	38.0%	40.8%	43.5%	46.3%	49.1%		**26.6%**
1984	6.2%	5.8%	5.4%	4.9%	4.5%	4.1%	3.7%	3.2%	2.8%	2.4%	1.9%	**4.3%**	
1985	32.1%	31.9%	31.6%	31.3%	31.0%	30.7%	30.4%	30.1%	29.8%	29.5%	29.2%	**3.0%**	
1986	18.4%	17.4%	16.4%	15.4%	14.4%	13.4%	12.4%	11.4%	10.4%	9.4%	8.4%	**10.0%**	
1987	5.2%	4.1%	3.0%	1.9%	0.8%	-0.4%	-1.5%	-2.6%	-3.7%	-4.8%	-6.0%	**11.2%**	
1988	16.8%	18.4%	20.1%	21.8%	23.5%	25.2%	26.9%	28.6%	30.3%	32.0%	33.8%		**17.0%**
1989	31.5%	29.6%	27.7%	25.8%	24.0%	22.2%	20.3%	18.5%	16.8%	15.0%	13.2%	**18.2%**	
1990	-3.1%	-5.4%	-7.6%	-9.8%	-12.0%	-14.1%	-16.1%	-18.2%	-20.2%	-22.1%	-24.0%	**20.9%**	
1991	30.4%	32.0%	33.6%	35.3%	36.9%	38.5%	40.1%	41.8%	43.4%	45.1%	46.7%		**16.3%**
1992	7.6%	10.1%	12.7%	15.3%	17.9%	20.6%	23.3%	26.1%	28.9%	31.7%	34.5%		**26.9%**
1993	10.0%	11.6%	13.3%	14.9%	16.5%	18.2%	19.9%	21.6%	23.3%	25.0%	26.8%		**16.7%**
1994	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.2%	**0.1%**	
1995	37.5%	36.7%	35.9%	35.1%	34.3%	33.4%	32.6%	31.8%	30.9%	30.1%	29.3%	**8.3%**	
1996	22.9%	22.9%	22.9%	22.8%	22.8%	22.7%	22.7%	22.6%	22.5%	22.4%	22.3%	**0.6%**	
1997	33.3%	33.2%	33.0%	32.8%	32.6%	32.3%	32.1%	31.8%	31.5%	31.1%	30.7%	**2.6%**	
1998	28.5%	24.5%	20.5%	16.7%	13.0%	9.4%	5.8%	2.4%	-0.9%	-4.2%	-7.3%	**35.8%**	
1999	21.0%	20.3%	19.6%	18.9%	18.1%	17.4%	16.5%	15.7%	14.8%	14.0%	13.0%	**8.0%**	
2000	-9.1%	-7.3%	-5.5%	-3.7%	-1.9%	-0.1%	1.7%	3.6%	5.4%	7.2%	9.0%		**18.1%**
2001	-11.9%	-8.8%	-5.7%	-2.4%	0.9%	4.3%	7.8%	11.4%	15.1%	18.8%	22.7%		**34.6%**
2002	-22.1%	-20.8%	-19.5%	-18.2%	-16.9%	-15.6%	-14.3%	-13.0%	-11.8%	-10.5%	-9.3%		**12.9%**
2003	28.7%	31.5%	34.4%	37.4%	40.4%	43.4%	46.5%	49.7%	52.9%	56.1%	59.4%		**30.8%**
2004	10.8%	12.3%	13.7%	15.1%	16.6%	18.0%	19.5%	21.0%	22.4%	23.9%	25.4%		**14.5%**
2005	4.9%	5.2%	5.5%	5.8%	6.1%	6.4%	6.7%	7.0%	7.3%	7.5%	7.8%		**2.9%**
2006	15.8%	16.4%	17.0%	17.6%	18.2%	18.7%	19.3%	19.9%	20.5%	21.0%	21.5%		**5.8%**
2007	5.5%	3.8%	2.1%	0.4%	-1.3%	-2.9%	-4.5%	-6.1%	-7.7%	-9.2%	-10.7%	**16.2%**	
2008	-37.0%	-37.0%	-36.9%	-36.8%	-36.8%	-36.8%	-36.8%	-36.8%	-36.8%	-36.8%	-36.8%		**0.2%**
2009	26.4%	27.3%	28.1%	28.9%	29.6%	30.4%	31.1%	31.8%	32.4%	33.0%	33.6%		**7.2%**
2010	15.0%	16.6%	18.2%	19.8%	21.3%	22.9%	24.5%	26.1%	27.7%	29.3%	30.9%		**15.9%**
2011	2.1%	1.1%	0.2%	-0.8%	-1.8%	-2.7%	-3.7%	-4.6%	-5.6%	-6.6%	-7.5%	**9.6%**	
2012	16.0%	16.5%	17.1%	17.7%	18.3%	18.9%	19.4%	20.0%	20.6%	21.2%	21.7%		**5.8%**
2013	32.3%	33.3%	34.3%	35.3%	36.3%	37.3%	38.3%	39.3%	40.4%	41.4%	42.4%		**10.0%**
2014	13.7%	12.6%	11.6%	10.6%	9.6%	8.6%	7.6%	6.5%	5.5%	4.5%	3.5%	**10.2%**	
2015	1.4%	0.4%	-0.5%	-1.4%	-2.3%	-3.2%	-4.1%	-5.0%	-6.0%	-6.9%	-7.8%	**9.2%**	
2016	11.9%	13.5%	15.1%	16.8%	18.4%	20.0%	21.6%	23.3%	24.9%	26.6%	28.3%		**16.3%**
2017	21.8%	20.3%	18.8%	17.3%	15.9%	14.4%	13.0%	11.5%	10.1%	8.6%	7.2%	**14.6%**	
2018	-4.4%	-5.5%	-6.6%	-7.7%	-8.8%	-9.8%	-10.9%	-12.0%	-13.0%	-14.1%	-15.1%	**10.7%**	
2019	31.4%	30.1%	28.8%	27.5%	26.2%	24.8%	23.5%	22.2%	20.8%	19.5%	18.1%	**13.3%**	
2020	18.4%	16.9%	15.4%	13.9%	12.3%	10.7%	9.1%	7.4%	5.7%	4.0%	2.2%	**16.2%**	
2021	28.7%	29.9%	31.1%	32.3%	33.4%	34.5%	35.6%	36.7%	37.8%	38.8%	39.8%		**11.1%**
2022	-18.1%	-16.7%	-15.3%	-13.9%	-12.4%	-11.0%	-9.5%	-8.0%	-6.5%	-5.0%	-3.5%		**14.6%**
2023	26.3%	25.7%	25.0%	24.3%	23.6%	22.9%	22.1%	21.4%	20.6%	19.8%	18.9%	**7.4%**	
2024	25.0%	23.5%	22.0%	20.4%	18.9%	17.4%	15.8%	14.3%	12.7%	11.1%	9.6%	**15.4%**	
2025	17.9%	17.0%	16.0%	15.1%	14.2%	13.2%	12.3%	11.3%	10.3%	9.4%	8.4%	**9.5%**	
Annualized Return	**11.0%**	**11.4%**	**11.7%**	**12.0%**	**12.2%**	**12.5%**	**12.7%**	**13.0%**	**13.2%**	**13.4%**	**13.5%**		
Standard Deviation	16.9%	16.8%	16.8%	17.0%	17.4%	17.8%	18.4%	19.2%	20.0%	20.9%	21.9%		
Worst 12 Months	-43.3%	-43.9%	-44.5%	-45.1%	-45.7%	-46.3%	-46.9%	-47.5%	-48.1%	-48.7%	-49.3%		
Worst 36 Mo (An'lzd)	-16.1%	-15.8%	-16.5%	-17.2%	-17.9%	-18.6%	-19.3%	-20.0%	-20.7%	-21.4%	-22.1%		
Worst 60 Mos (An'lzd)	-6.7%	-6.8%	-6.9%	-7.0%	-7.2%	-7.3%	-7.5%	-7.6%	-7.8%	-8.0%	-8.2%		
Worst Drawdown	-51.0%	-51.6%	-52.4%	-53.5%	-54.7%	-55.8%	-56.9%	-58.0%	-59.1%	-60.1%	-61.2%		

Summary S&P vs US SCV	
Years Out-Perform	
27	**29**
Avg. Out-Perf Rtn.	
11.0%	**16.5%**

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Table G1b – Fine Tuning Table: S&P 500 vs US SCV Equity Portfolio – Out-Performance

Summary · 1970–2025

	100% S&P	10/90	20/80	30/70	40/60	50/50	60/40	70/30	80/20	90/10	100% SCV
Annualized Return	11.0%	11.4%	11.7%	12.0%	12.2%	12.5%	12.7%	13.0%	13.2%	13.4%	13.5%
Standard Deviation	16.9%	16.8%	16.8%	17.0%	17.4%	17.8%	18.4%	19.2%	20.0%	20.9%	21.9%
Worst 12 Months	-43.3%	-43.9%	-44.5%	-45.1%	-45.7%	-46.3%	-46.9%	-47.5%	-48.1%	-48.7%	-49.3%
Worst 36 Months (Annualized)	-16.1%	-15.8%	-16.5%	-17.2%	-17.9%	-18.6%	-19.3%	-20.0%	-20.7%	-21.4%	-22.1%
Worst 60 Months (Annualized)	-6.7%	-6.8%	-6.9%	-7.0%	-7.2%	-7.3%	-7.5%	-7.6%	-7.8%	-8.0%	-8.2%
Worst Drawdown	-51.0%	-51.6%	-52.4%	-53.5%	-54.7%	-55.8%	-56.9%	-58.0%	-59.1%	-60.1%	-61.2%

Table G1b – Fine Tuning Table: S&P 500 vs US SCV Equity Portfolio – Out-Performance

Index returns reduced by a representative fund's expense ratio, except S&P 500 Index · 1970–1983

Year	100% S&P 500	100% US SCV	Out-Performance S&P 500	Out-Performance US SCV
1970	4.0%	-1.5%	**5.4%**	
1971	14.3%	14.9%		**0.6%**
1972	18.9%	7.6%	**11.4%**	
1973	-14.7%	-30.4%	**15.7%**	
1974	-26.5%	-18.0%		**8.5%**
1975	37.2%	65.2%		**28.1%**
1976	23.8%	58.2%		**34.4%**
1977	-7.2%	22.2%		**29.4%**
1978	6.5%	22.8%		**16.3%**
1979	18.4%	35.0%		**16.7%**
1980	32.4%	24.0%	**8.4%**	
1981	-4.9%	20.2%		**25.1%**
1982	21.4%	36.8%		**15.5%**
1983	22.5%	49.1%		**26.6%**

Table G1b – Fine Tuning Table: S&P 500 vs US SCV Equity Portfolio – Out-Performance

Index returns reduced by a representative fund's expense ratio, except S&P 500 Index · 1984–1999

Year	100% S&P 500	100% US SCV	Out-Performance S&P 500	Out-Performance US SCV
1984	6.2%	1.9%	**4.3%**	
1985	32.1%	29.2%	**3.0%**	
1986	18.4%	8.4%	**10.0%**	
1987	5.2%	-6.0%	**11.2%**	
1988	16.8%	33.8%		**17.0%**
1989	31.5%	13.2%	**18.2%**	
1990	-3.1%	-24.0%	**20.9%**	
1991	30.4%	46.7%		**16.3%**
1992	7.6%	34.5%		**26.9%**
1993	10.0%	26.8%		**16.7%**
1994	1.3%	1.2%	**0.1%**	
1995	37.5%	29.3%	**8.3%**	
1996	22.9%	22.3%	**0.6%**	
1997	33.3%	30.7%	**2.6%**	
1998	28.5%	-7.3%	**35.8%**	
1999	21.0%	13.0%	**8.0%**	

Table G1b – Fine Tuning Table: S&P 500 vs US SCV Equity Portfolio – Out-Performance

Index returns reduced by a representative fund's expense ratio, except S&P 500 Index · 2000–2013

Year	100% S&P 500	100% US SCV	Out-Performance S&P 500	Out-Performance US SCV
2000	-9.1%	9.0%		**18.1%**
2001	-11.9%	22.7%		**34.6%**
2002	-22.1%	-9.3%		**12.9%**
2003	28.7%	59.4%		**30.8%**
2004	10.8%	25.4%		**14.5%**
2005	4.9%	7.8%		**2.9%**
2006	15.8%	21.5%		**5.8%**
2007	5.5%	-10.7%	**16.2%**	
2008	-37.0%	-36.8%		**0.2%**
2009	26.4%	33.6%		**7.2%**
2010	15.0%	30.9%		**15.9%**
2011	2.1%	-7.5%	**9.6%**	
2012	16.0%	21.7%		**5.8%**
2013	32.3%	42.4%		**10.0%**

Table G1b – Fine Tuning Table: S&P 500 vs US SCV Equity Portfolio – Out-Performance

Index returns reduced by a representative fund's expense ratio, except S&P 500 Index · 2014–2025

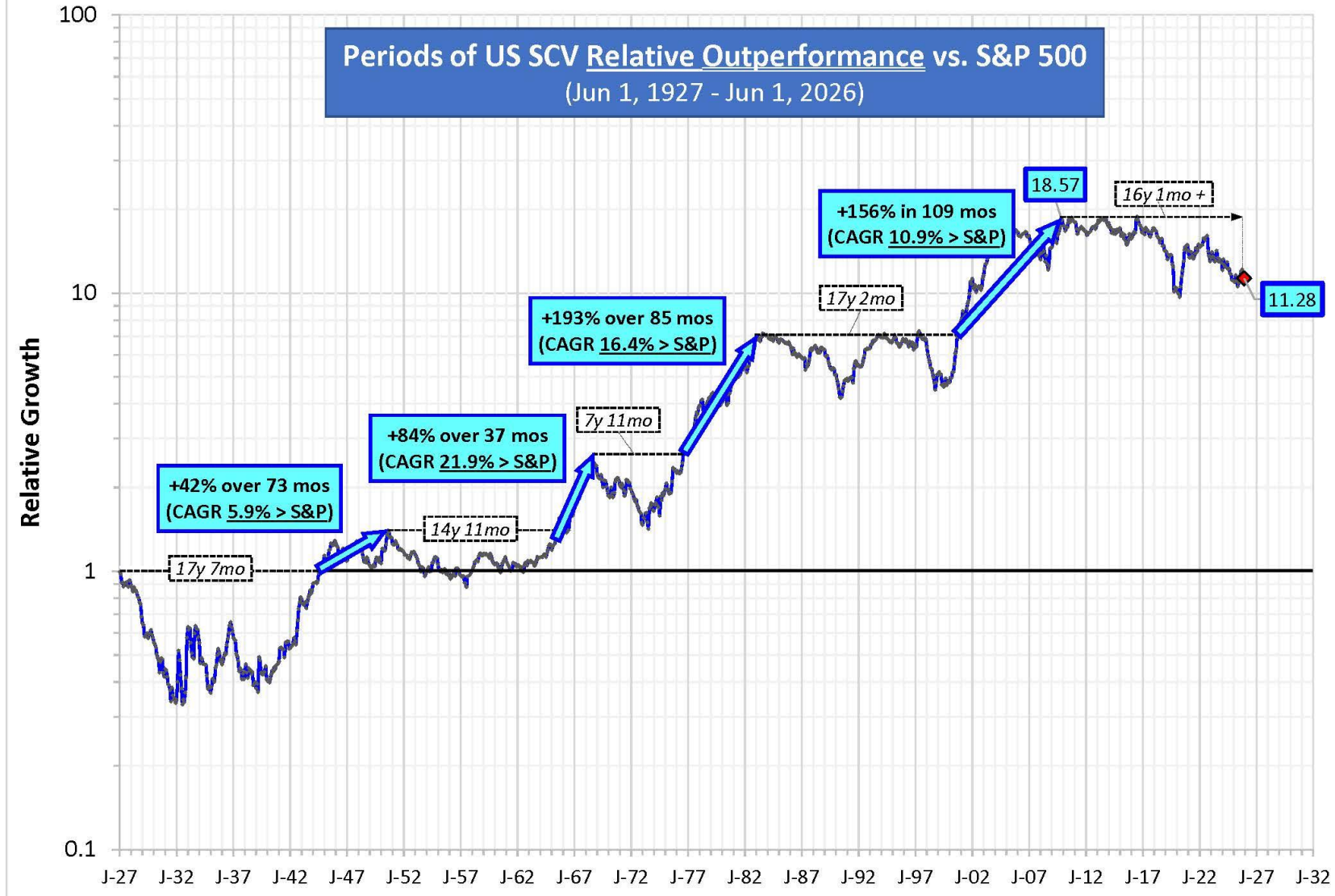
Year	100% S&P 500	100% US SCV	Out-Performance S&P 500	Out-Performance US SCV
2014	13.7%	3.5%	**10.2%**	
2015	1.4%	-7.8%	**9.2%**	
2016	11.9%	28.3%		**16.3%**
2017	21.8%	7.2%	**14.6%**	
2018	-4.4%	-15.1%	**10.7%**	
2019	31.4%	18.1%	**13.3%**	
2020	18.4%	2.2%	**16.2%**	
2021	28.7%	39.8%		**11.1%**
2022	-18.1%	-3.5%		**14.6%**
2023	26.3%	18.9%	**7.4%**	
2024	25.0%	9.6%	**15.4%**	
2025	17.9%	8.4%	**9.5%**	

Table G1b – Fine Tuning Table: S&P 500 vs US SCV Equity Portfolio – Out-Performance

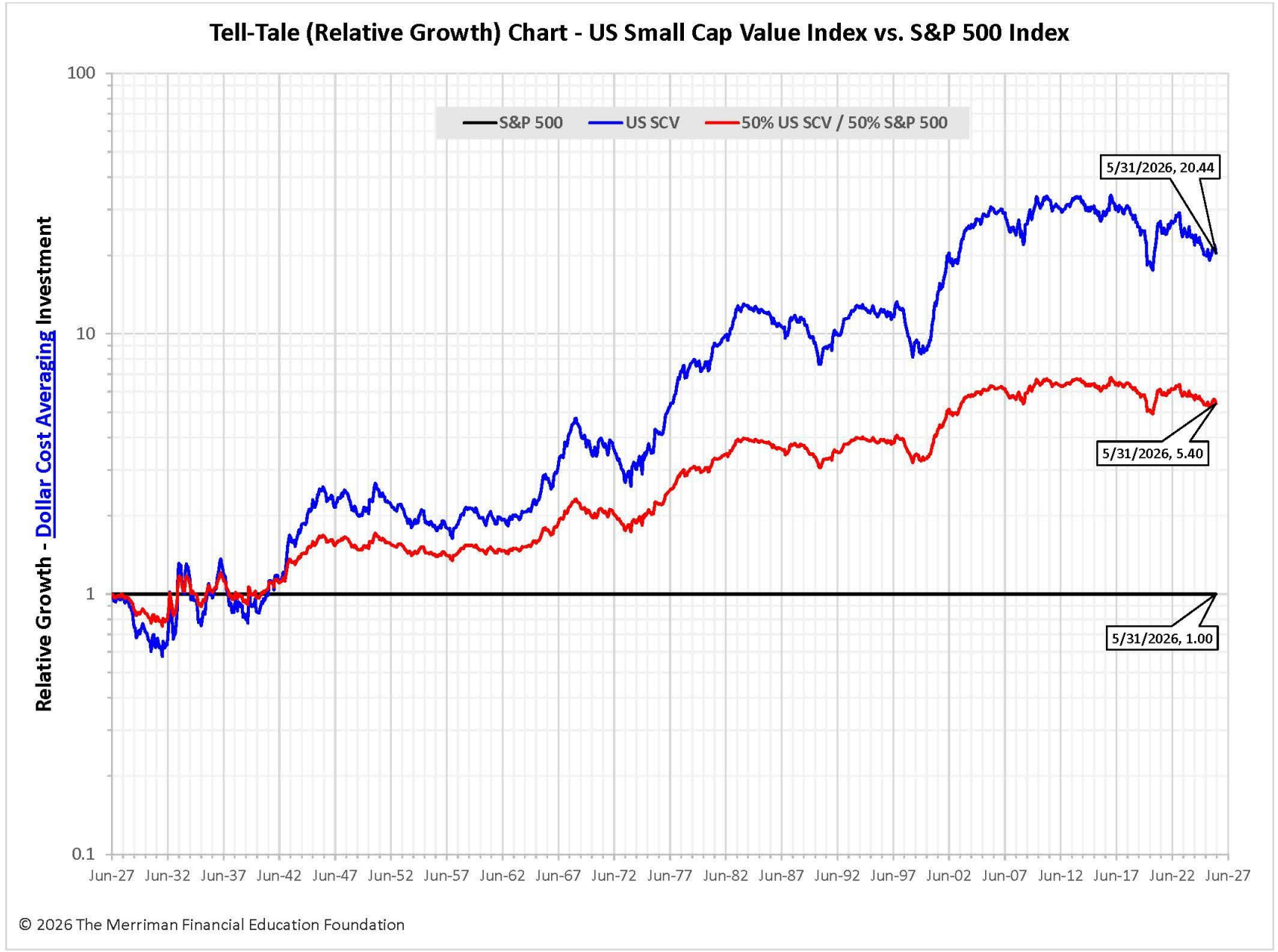
Out-Performance Summary · 1970–2025

Summary: S&P 500 vs US SCV	S&P 500	US SCV
Years Out-Performed	27	29
Avg. Out-Performance Return	11.0%	16.5%

Tell-Tale Chart - US Small Cap Value Index vs. S&P 500 Index

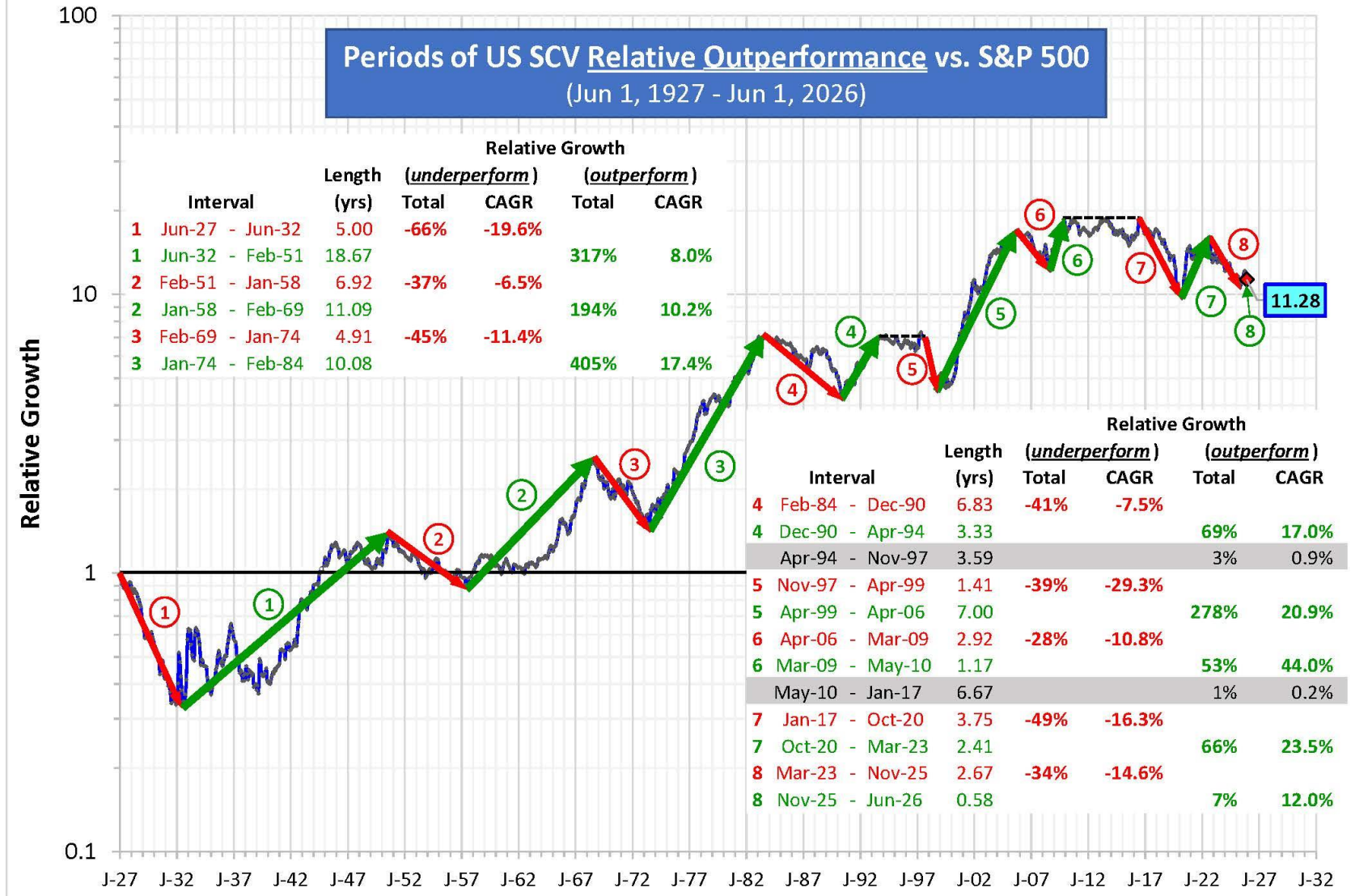


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Tell-Tale Chart - US Small Cap Value Index vs. S&P 500 Index



	Interval	Length (yrs)	Relative Growth (*underperform*) Total	(*underperform*) CAGR	(*outperform*) Total	(*outperform*) CAGR
1	Jun-27 - Jun-32	5.00	-66%	-19.6%		
1	Jun-32 - Feb-51	18.67			317%	8.0%
2	Feb-51 - Jan-58	6.92	-37%	-6.5%		
2	Jan-58 - Feb-69	11.09			194%	10.2%
3	Feb-69 - Jan-74	4.91	-45%	-11.4%		
3	Jan-74 - Feb-84	10.08			405%	17.4%

	Interval	Length (yrs)	Relative Growth (*underperform*) Total	(*underperform*) CAGR	(*outperform*) Total	(*outperform*) CAGR
4	Feb-84 - Dec-90	6.83	-41%	-7.5%		
4	Dec-90 - Apr-94	3.33			69%	17.0%
	Apr-94 - Nov-97	3.59			3%	0.9%
5	Nov-97 - Apr-99	1.41	-39%	-29.3%		
5	Apr-99 - Apr-06	7.00			278%	20.9%
6	Apr-06 - Mar-09	2.92	-28%	-10.8%		
6	Mar-09 - May-10	1.17			53%	44.0%
	May-10 - Jan-17	6.67			1%	0.2%
7	Jan-17 - Oct-20	3.75	-49%	-16.3%		
7	Oct-20 - Mar-23	2.41			66%	23.5%
8	Mar-23 - Nov-25	2.67	-34%	-14.6%		
8	Nov-25 - Jun-26	0.58			7%	12.0%

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Table C9 - Fixed Contributions ($1,000/yr): US 2-Fund Equity Portfolio

Annual contribution made at $83.33/mo and grow at 3%/yr. Contributions at BEGINNING OF MONTH. Results reflect Fine Tuning Table returns.

Year	100% Bonds	10% Eq 90% Bd	20% Eq 80% Bd	30% Eq 70% Bd	40% Eq 60% Bd	50% Eq 50% Bd	60% Eq 40% Bd	70% Eq 30% Bd	80% Eq 20% Bd	90% Eq 10% Bd	100% Equity	S&P 500 Index	Annual Contribution
1970	$1,082	$1,075	$1,068	$1,061	$1,054	$1,047	$1,039	$1,032	$1,024	$1,016	$1,008	$1,022	$1,000
1971	$2,248	$2,254	$2,258	$2,262	$2,266	$2,268	$2,270	$2,271	$2,271	$2,270	$2,269	$2,276	$1,030
1972	$3,466	$3,494	$3,522	$3,549	$3,574	$3,599	$3,623	$3,646	$3,667	$3,688	$3,708	$3,875	$1,061
1973	$4,800	$4,705	$4,609	$4,512	$4,414	$4,315	$4,217	$4,117	$4,018	$3,918	$3,818	$4,311	$1,093
1974	$6,305	$6,041	$5,784	$5,533	$5,289	$5,051	$4,820	$4,597	$4,380	$4,171	$3,969	$4,127	$1,126
1975	$8,122	$8,092	$8,053	$8,005	$7,948	$7,884	$7,813	$7,735	$7,651	$7,561	$7,466	$7,044	$1,159
1976	$10,381	$10,585	$10,779	$10,962	$11,133	$11,293	$11,442	$11,580	$11,706	$11,821	$11,926	$10,067	$1,194
1977	$11,932	$12,187	$12,432	$12,666	$12,889	$13,101	$13,302	$13,492	$13,670	$13,836	$13,992	$10,526	$1,230
1978	$13,815	$14,224	$14,626	$15,018	$15,400	$15,770	$16,128	$16,473	$16,804	$17,121	$17,423	$12,529	$1,267
1979	$16,140	$16,861	$17,591	$18,327	$19,069	$19,814	$20,562	$21,309	$22,056	$22,799	$23,539	$16,270	$1,305
1980	$18,704	$19,863	$21,061	$22,295	$23,565	$24,866	$26,196	$27,553	$28,933	$30,332	$31,747	$23,112	$1,344
1981	$22,183	$23,401	$24,652	$25,932	$27,239	$28,570	$29,920	$31,285	$32,661	$34,044	$35,430	$23,324	$1,384
1982	$29,808	$31,427	$33,090	$34,791	$36,528	$38,293	$40,082	$41,889	$43,707	$45,529	$47,350	$29,904	$1,426
1983	$33,936	$36,493	$39,194	$42,039	$45,027	$48,158	$51,428	$54,836	$58,376	$62,044	$65,833	$38,279	$1,469
1984	$40,493	$43,049	$45,711	$48,475	$51,334	$54,283	$57,313	$60,416	$63,583	$66,804	$70,067	$42,241	$1,513
1985	$50,071	$53,630	$57,375	$61,303	$65,410	$69,690	$74,136	$78,739	$83,489	$88,374	$93,381	$57,648	$1,558
1986	$59,260	$63,319	$67,576	$72,024	$76,657	$81,463	$86,432	$91,550	$96,802	$102,170	$107,635	$70,057	$1,605
1987	$63,619	$67,890	$72,299	$76,822	$81,431	$86,097	$90,783	$95,452	$100,059	$104,559	$108,902	$75,421	$1,653
1988	$69,784	$75,544	$81,617	$87,989	$94,637	$101,533	$108,641	$115,919	$123,317	$130,777	$138,234	$89,953	$1,702
1989	$80,957	$88,183	$95,871	$104,010	$112,580	$121,553	$130,894	$140,553	$150,474	$160,588	$170,814	$120,320	$1,754
1990	$90,675	$96,379	$102,230	$108,189	$114,210	$120,242	$126,229	$132,110	$137,817	$143,282	$148,431	$118,361	$1,806
1991	$106,235	$115,019	$124,257	$133,914	$143,942	$154,284	$164,869	$175,614	$186,426	$197,198	$207,813	$156,575	$1,860
1992	$115,697	$126,656	$138,355	$150,773	$163,875	$177,610	$191,912	$206,696	$221,856	$237,270	$252,795	$170,508	$1,916
1993	$129,400	$142,494	$156,592	$171,691	$187,769	$204,786	$222,681	$241,369	$260,741	$280,662	$300,970	$189,761	$1,974
1994	$126,986	$140,322	$154,762	$170,313	$186,970	$204,704	$223,468	$243,187	$263,762	$285,067	$306,941	$194,314	$2,033
1995	$148,966	$166,788	$186,405	$207,895	$231,314	$256,698	$284,051	$313,348	$344,522	$377,465	$412,017	$269,831	$2,094
1996	$156,195	$177,717	$201,859	$228,815	$258,768	$291,883	$328,295	$368,103	$411,362	$458,071	$508,162	$334,201	$2,157
1997	$168,981	$196,253	$227,552	$263,318	$304,002	$350,056	$401,920	$460,013	$524,712	$596,334	$675,118	$448,307	$2,221
1998	$184,804	$215,067	$249,809	$289,494	$334,590	$385,545	$442,781	$506,669	$577,510	$655,506	$740,743	$579,056	$2,288
1999	$188,050	$222,026	$261,671	$307,709	$360,893	$421,999	$491,798	$571,037	$660,412	$760,529	$871,867	$703,515	$2,357
2000	$211,862	$247,218	$287,987	$334,749	$388,087	$448,564	$516,705	$592,970	$677,728	$771,225	$873,548	$641,770	$2,427
2001	$231,142	$268,968	$312,382	$361,920	$418,091	$481,361	$552,126	$630,684	$717,206	$811,701	$913,983	$567,827	$2,500
2002	$260,319	$295,029	$333,593	$376,118	$422,634	$473,081	$527,294	$584,984	$645,730	$708,968	$773,986	$444,583	$2,575
2003	$271,993	$318,535	$372,127	$433,421	$503,019	$581,439	$669,081	$766,180	$872,768	$988,624	$1,113,237	$575,181	$2,652
2004	$283,067	$335,735	$397,269	$468,691	$551,012	$645,188	$752,074	$872,366	$1,006,543	$1,154,794	$1,316,953	$640,644	$2,732
2005	$290,811	$346,169	$411,145	$486,909	$574,630	$675,432	$790,340	$920,222	$1,065,713	$1,227,139	$1,404,439	$675,006	$2,814
2006	$301,927	$364,194	$438,400	$526,275	$629,625	$750,292	$890,086	$1,050,711	$1,233,670	$1,440,158	$1,670,937	$784,773	$2,898
2007	$333,984	$397,750	$472,759	$560,388	$662,011	$778,939	$912,356	$1,063,247	$1,232,303	$1,419,833	$1,625,663	$830,960	$2,985
2008	$364,774	$412,786	$465,908	$524,087	$587,112	$654,587	$725,913	$800,276	$876,637	$953,737	$1,030,113	$525,945	$3,075
2009	$372,148	$432,955	$502,088	$579,927	$666,659	$762,219	$866,244	$978,017	$1,096,433	$1,219,969	$1,346,674	$668,733	$3,167
2010	$396,389	$468,900	$552,681	$648,542	$757,076	$878,573	$1,012,938	$1,159,604	$1,317,453	$1,484,758	$1,659,140	$772,991	$3,262
2011	$430,363	$504,244	$588,567	$683,784	$790,073	$907,253	$1,034,721	$1,171,382	$1,315,605	$1,465,192	$1,617,383	$792,715	$3,360
2012	$444,268	$528,093	$625,378	$737,136	$864,109	$1,006,663	$1,164,675	$1,337,430	$1,523,516	$1,720,753	$1,926,143	$923,331	$3,461
2013	$431,660	$531,313	$651,562	$795,323	$965,474	$1,164,693	$1,395,266	$1,658,851	$1,956,234	$2,287,058	$2,649,570	$1,226,544	$3,565
2014	$445,517	$551,041	$679,184	$833,361	$1,017,008	$1,233,413	$1,485,493	$1,775,538	$2,104,918	$2,473,771	$2,880,683	$1,398,378	$3,671
2015	$452,905	$557,499	$683,944	$835,348	$1,014,767	$1,225,028	$1,468,510	$1,746,895	$2,060,891	$2,409,947	$2,791,973	$1,421,539	$3,782
2016	$466,578	$583,386	$727,038	$902,051	$1,113,107	$1,364,847	$1,661,608	$2,007,093	$2,403,981	$2,853,501	$3,354,986	$1,595,697	$3,895
2017	$478,019	$603,940	$760,762	$954,289	$1,190,743	$1,476,563	$1,818,113	$2,221,303	$2,691,119	$3,231,077	$3,842,613	$1,948,534	$4,012
2018	$485,911	$606,862	$755,734	$937,191	$1,156,031	$1,416,959	$1,724,293	$2,081,604	$2,491,298	$2,954,159	$3,468,883	$1,867,137	$4,132
2019	$527,424	$668,500	$844,870	$1,063,227	$1,330,713	$1,654,655	$2,042,193	$2,499,803	$3,032,707	$3,644,198	$4,334,914	$2,459,983	$4,256
2020	$575,838	$733,714	$931,575	$1,176,888	$1,477,471	$1,841,125	$2,275,124	$2,785,584	$3,376,710	$4,049,967	$4,803,221	$2,918,264	$4,384
2021	$586,514	$768,358	$1,003,230	$1,303,499	$1,683,076	$2,157,095	$2,741,362	$3,451,541	$4,302,055	$5,304,714	$6,467,088	$3,762,260	$4,515
2022	$532,684	$696,752	$908,430	$1,178,643	$1,519,572	$1,944,329	$2,466,405	$3,098,897	$3,853,475	$4,739,124	$5,760,699	$3,086,005	$4,651
2023	$560,248	$744,176	$985,595	$1,299,173	$1,701,810	$2,212,377	$2,851,180	$3,639,080	$4,596,232	$5,740,427	$7,085,051	$3,903,840	$4,790
2024	$577,424	$776,532	$1,041,666	$1,391,102	$1,846,434	$2,432,465	$3,176,762	$4,108,780	$5,258,472	$6,654,309	$8,320,715	$4,887,588	$4,934
2025	$620,141	$837,880	$1,129,682	$1,516,729	$2,024,280	$2,681,642	$3,521,748	$4,580,241	$5,893,924	$7,498,503	$9,425,590	$5,768,757	$5,082

Table C9 - Fixed Contributions ($1,000/yr): US 2-Fund Equity Portfolio

Annual contribution made at $83.33/mo and grow at 3%/yr. Contributions at BEGINNING OF MONTH. Results reflect Fine Tuning Table returns.

Year	100% Bonds	10% Eq 90% Bd	20% Eq 80% Bd	30% Eq 70% Bd	40% Eq 60% Bd	50% Eq 50% Bd	60% Eq 40% Bd	70% Eq 30% Bd	80% Eq 20% Bd	90% Eq 10% Bd	100% Equity	S&P 500 Index	Annual Contribution
2020	$575,838	$733,714	$931,575	$1,176,888	$1,477,471	$1,841,125	$2,275,124	$2,785,584	$3,376,710	$4,049,967	$4,803,221	$2,918,264	$4,384
2021	$586,514	$768,358	$1,003,230	$1,303,499	$1,683,076	$2,157,095	$2,741,362	$3,451,541	$4,302,055	$5,304,714	$6,467,088	$3,762,260	$4,515
2022	$532,684	$696,752	$908,430	$1,178,643	$1,519,572	$1,944,329	$2,466,405	$3,098,897	$3,853,475	$4,739,124	$5,760,699	$3,086,005	$4,651
2023	$560,248	$744,176	$985,595	$1,299,173	$1,701,810	$2,212,377	$2,851,180	$3,639,080	$4,596,232	$5,740,427	$7,085,051	$3,903,840	$4,790
2024	$577,424	$776,532	$1,041,666	$1,391,102	$1,846,434	$2,432,465	$3,176,762	$4,108,780	$5,258,472	$6,654,309	$8,320,715	$4,887,588	$4,934
2025	$620,141	$837,880	$1,129,682	$1,516,729	$2,024,280	$2,681,642	$3,521,748	$4,580,241	$5,893,924	$7,498,503	$9,425,590	$5,768,757	$5,082

Practical Suggestions for Tilters

James M. Dahle

3 Minutes

How Much to Tilt

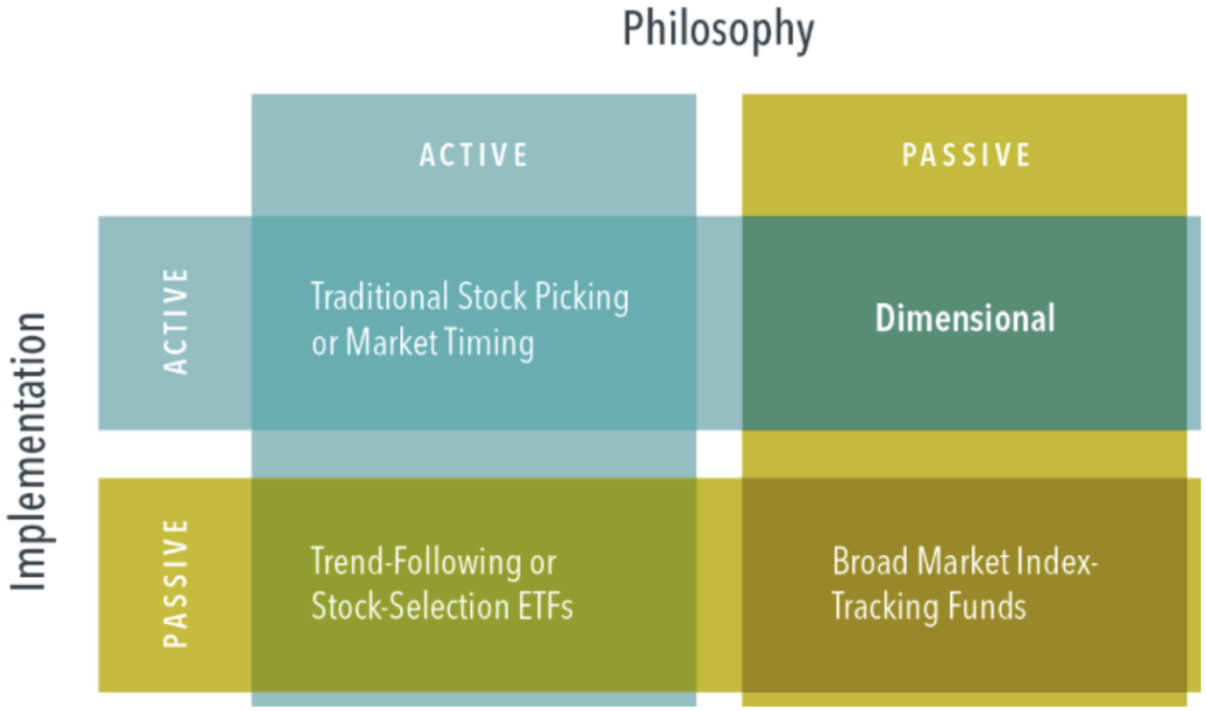
- 0-50%
- Don’t tilt more than you believe

Tips for Tilters

1. Use ETFs instead of traditional funds
2. Don’t sweat the expense ratios

Tips for Tilters

3. Don’t get too fixated about active vs passive



Tips for Tilters

4. Get a decent tilt

VTI

	Value	Blend	Growth
Large	21	32	19
Mid	6	9	5
Small	3	4	2

VBR

	Value	Blend	Growth
Large	0	0	1
Mid	12	13	3
Small	35	31	5

AVUV

	Value	Blend	Growth
Large	0	0	0
Mid	0	1	0
Small	57	33	9

Our Chosen Funds

- US
  - AVUV Avantis Small Cap Value ETF
  - DFSV Dimensional Small Cap Value ETF
- International
  - AVDV Avantis International Small Cap Value ETF
  - DISV Dimensional International Small Cap Value ETF

Final thoughts

Paul A. Merriman

3 Minutes

2026 Best-in-Class Equity ETF Recommendations

Non-traditional index funds from Avantis and DFA, alongside traditional Vanguard options.

ASSET CLASSES	NON-TRADITIONAL INDEX FUNDS		TRADITIONAL INDEX FUNDS
EQUITIES	**Avantis ETF**	**DFA ETF**	**Vanguard**
US Large Cap Blend	Avantis U.S. Large Cap Equity ETF **(AVLC)**	Dimensional U.S. Equity Market ETF **(DFUS)**	Vanguard S&P 500 ETF **(VOO)**
US Large Cap Value	Avantis U.S. Large Cap Value ETF **(AVLV)**	Dimensional US Large Cap Value ETF **(DFLV)**	Vanguard Russell 1000 Value Index **(VONV)**
US Small Cap Blend	Avantis U.S. Small Cap Equity ETF **(AVSC)**	Dimensional US Small Cap ETF **(DFAS)**	Vanguard S&P Small-Cap 600 ETF **(VIOO)**
US Small Cap Value	Avantis U.S. Small Cap Value ETF **(AVUV)**	Dimensional US Small Cap Value ETF **(DFSV)**	Vanguard S&P Small-Cap 600 ETF **(VIOV)**
US REIT	Avantis Real Estate ETF **(AVRE)** — ~30% Int'l	Dimensional US Real Estate ETF **(DFAR)**	Vanguard Real Estate ETF **(VNQ)**
Int'l Large Cap Blend	Avantis International Equity ETF **(AVDE)**	Dimensional Int'l Core Equity Market ETF **(DFAI)**	Vanguard FTSE Dev. Markets ETF **(VEA)**
Int'l Large Cap Value	Avantis Int'l Large Cap Value ETF **(AVIV)**	Dimensional International Value ETF **(DFIV)**	Vanguard Int'l Hi Div Yld Indx ETF **(VYMI)**
Int'l Small Cap Blend	Avantis International Small Cap Equity ETF **(AVDS)**	Dimensional International Small Cap ETF **(DFIS)**	Vanguard FTSE All-Wld ex-US SmCp ETF **(VSS)**
Int'l Small Cap Value	Avantis International Small Cap Value ETF **(AVDV)**	Dimensional Int'l Small Cap Value ETF **(DISV)**	*AVDV if possible, or DISV, or more VYMI & VSS*
Int'l REIT (optional)	*Avantis only has a global real estate fund*	Global Real Estate ETF **(DFGR)**	Vanguard Global ex-US Real Estate **(VNQI)**
Emerging Markets	Avantis Emerging Markets Equity ETF **(AVEM)**	Dimensional Em. Markets Core Eq. 2 ETF **(DFEM)**	Vanguard FTSE Em. Markets ETF **(VWO)**

Table H1a - Sound Investing Portfolios: Asset Allocations (50% US / 50% Int'l)

Portfolio	S&P 500	US LCV	US SCB	US SCV	REIT	Intl LCB	Intl LCV	Intl SCB	Intl SCV	Em Mrkt
S&P 500	100%									
WW UBH	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
WW 4-Fund	25%			25%			25%	25%		
US 4-Fund	25%	25%	25%	25%						
WW All Value		25%		25%			20%		20%	10%
US All Value		50%		50%						
WW All SCV				50%					50%	
US All SCV				100%						
US 2-Fund	50%			50%						

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Table H2 - Sound Investing Portfolios: Comparison Data (100% Eq/0% FI)

(Worldwide (WW) equity portfolios are 50% US / 50% Int'l)

1970-2025	S&P 500	WW UBH	WW 4-Fund	US 4-Fund	WW All Value	US All Value	WW All SCV	US All SCV	US 2-Fund
56 yr Growth of $10K*	$3,518,853	$5,944,592	$6,603,966	$6,288,836	$8,678,016	$9,270,656	$15,204,456	$12,217,944	$7,319,060
(-Monthly rebalancing)*									
Returns									
CAGR (70-25)	11.0%	12.1%	12.3%	12.2%	12.8%	13.0%	14.0%	13.5%	12.5%
(70-79)	5.8%	13.3%	13.4%	10.4%	14.4%	13.0%	17.2%	13.9%	10.1%
(80-89)	17.5%	22.0%	22.9%	18.8%	23.5%	20.2%	26.7%	20.0%	18.9%
(90-99)	18.2%	10.1%	10.4%	15.4%	10.6%	14.6%	8.4%	15.3%	16.9%
(00-09)	-1.0%	7.3%	6.1%	4.8%	8.5%	6.9%	10.5%	9.1%	4.2%
(10-19)	13.5%	9.2%	9.3%	12.4%	8.7%	11.8%	9.1%	10.7%	12.2%
(20-25)	15.1%	10.5%	12.4%	11.9%	11.5%	10.9%	12.4%	11.8%	13.7%
The "Ups & Downs" Ride									
Number of Up Yrs	45	45	45	43	47	44	44	43	44
Average Up Yr Gain	19.0%	20.3%	20.7%	21.3%	20.4%	21.9%	23.9%	24.6%	21.0%
Sum of Up Yr Gains	856.2%	913.8%	932.9%	917.9%	957.7%	965.4%	1053.6%	1057.7%	925.5%
Best Year	37.5%	48.9%	48.9%	51.4%	53.5%	57.0%	69.7%	65.2%	51.3%
	1995	2003	2003	1975	2003	1975	1975	1975	1975
Number of Down Yrs	11	11	11	13	9	12	12	13	12
Average Down Yr Loss	-14.5%	-13.6%	-14.0%	-11.4%	-16.1%	-12.2%	-13.0%	-13.7%	-11.8%
Sum of Down Yr Losses	-159.2%	-149.4%	-153.5%	-148.2%	-144.8%	-146.5%	-156.5%	-178.0%	-141.1%
Worst Year	-37.0%	-41.2%	-40.9%	-37.6%	-42.2%	-38.8%	-39.1%	-36.8%	-36.8%
	2008	2008	2008	2008	2008	2008	2008	2008	2008

Final thoughts

James M. Dahle

3 Minutes

What Matters in Investing

1. Income
2. Savings rate
3. Developing a reasonable plan
4. Sticking with that plan
5. Asset Allocation
6. Investment Selection
7. Asset Location

Your Behavior Matters

Don’t tilt more than you believe.

Your faith in a small value tilt WILL be tested.

Develop a Workable Plan

- Fail to plan, plan to fail
- Write your plan down
  - Yes, it will change
  - A written document can be referred back to when you (or markets) are uncertain
  - The act of writing it down exposes gaps in your plan or your knowledge base that you can then go fill
- Use realistic assumptions (study financial history)

THANK YOU!

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