INDEX INVESTMENT STRATEGY

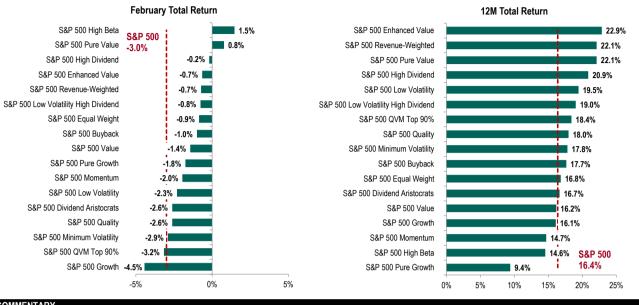
Index Dashboard: S&P 500® Factor Indices February 2022

Indices

S&P Dow Jones

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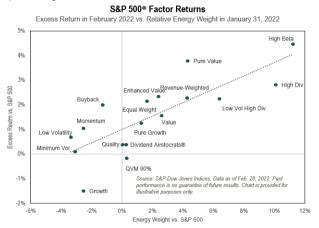
MONTHLY AND 12M PERFORMANCE SUMMARY

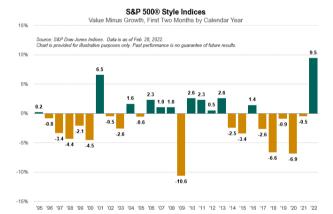


COMMENTARY

While the S&P 500 started the month on the front foot, up 1.6% at one point, risk appetite dramatically waned following Russia's invasion of Ukraine and the subsequent sanctions by NATO allies, leading to the U.S. benchmark losing 3% in February. High Beta and Pure Value were the only two factors to finish February with gains, but almost every factor index outperformed. Growth was the sole notable laggard, although the low-active share QVM 90% was also slightly behind. The S&P 500 Equal Weight managed to limit its losses to just 0.9%, as some of the heaviest drops were suffered by the market's largest blue chips; this helps explain why most factor indices finished the month ahead of their capitalization-weighted parent.

Besides the spectacular drops suffered by some of the mega caps, the month's other highlight was Value's continued outperformance: it is having its best start to the year against both Growth and the S&P 500 since records began in the mid-1990s, outperforming Growth by 9.5% year-to-date. An important driver of Value's outperformance has been sector tilts, as it had a 5% overweight in the two best-performing sectors, Energy and Industrials, and a 3% underweight in worstperforming Communication Services.





Exposure to Energy was an important driver not just for Value but for all our factors indices in February. The correlation between the relative return of our factor indices in February and their Energy weights as of January 31, 2022, was 0.79, signaling a strong positive statistical relationship. High Beta, the top performing factor in February, also had the largest overweight in Energy, starting the month with an 14.6% Energy exposure vs. 3.4% for the S&P 500, while worst-performing Growth had the largest underweight with just 0.8% allocated to the Energy sector.

High Beta's 4.5% outperformance this month caps a very strong run both in absolute and relative terms since the S&P 500's pre-COVID high on February 19, 2020. High Beta has risen 211% from the market bottom and 66% since February 19, 2020, making it the best performing among S&P 500 factors since both the pre-COVID high and the market bottom on 23 March, 2020.

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ANNUAL PERFORMANCE

Core factor performance by calendar year, 2007-present:

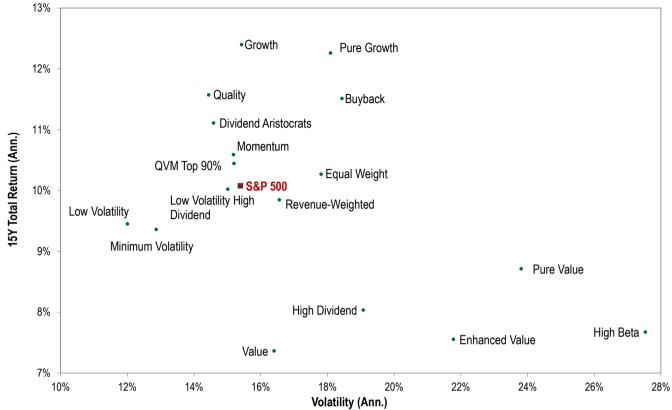
Total Return		2007	2008	2009	2010	2011	2012	2013	2014
Value		1.99%	-39.22%	21.18%	15.10%	-0.48%	17.68%	31.99%	12.36%
Low Volatility		0.58%	-21.41%	19.22%	13.36%	14.78%	10.30%	23.59%	17.49%
Momentum		9.89%	-34.56%	17.24%	18.72%	1.60%	17.33%	31.42%	11.23%
Quality		15.50%	-34.06%	30.46%	14.95%	10.89%	14.68%	34.24%	14.95%
S&P 500		5.49%	-37.00%	26.46%	15.06%	2.11%	16.00%	32.39%	13.69%
Relative to Benchmark	20%	2007	2008	2009	2010	2011	2012	2013	2014
■ Value	15%								
	10%								
Low Volatility	5%								
	0%							- -	
Momentum	-5%								
	-10%								
Quality	-15%								
	-20%								

Total Return		2015	2016	2017	2018	2019	2020	2021	2022
Value		-3.13%	17.40%	15.36%	-8.95%	31.93%	1.36%	24.90%	-3.04%
Low Volatility		4.34%	10.37%	17.41%	0.27%	28.26%	-1.11%	24.42%	-6.74%
Momentum		5.56%	5.70%	28.27%	-0.04%	26.25%	28.32%	22.79%	-8.23%
Quality		0.38%	9.56%	19.51%	-6.79%	33.91%	17.55%	28.16%	-6.61%
S&P 500		1.38%	11.96%	21.83%	-4.38%	31.49%	18.40%	28.71%	-8.01%
Relative to Benchmark		2015	2016	2017	2018	2019	2020	2021	2022
	20%								
■ Value	15%								
	10%								
■ Low Volatility	5%								
	0%						-	_	
Momentum	-5%								
	-10%								
■ Quality	-15%								
	-20%								

Source: S&P Dow Jones Indices LLC and/or its affiliates. Data as of February 28, 2022.

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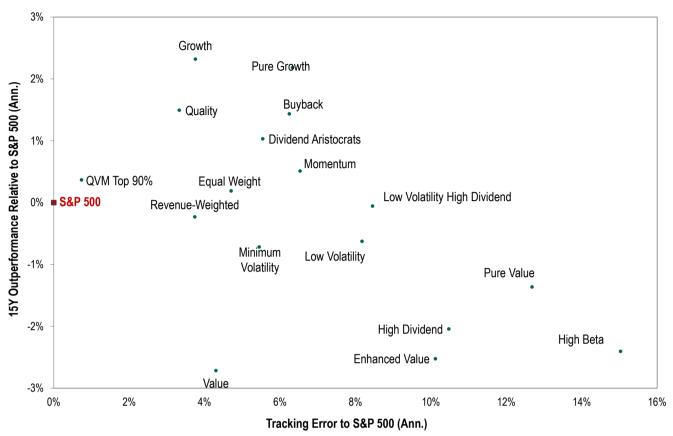
Index Dashboard: S&P 500® Factor Indices February 2022



TOTAL RETURN	1M	3M	12M	3Y	5Y	10Y	15Y	VOLATILITY (ANN.)	12M	3Y	5Y	10Y	
S&P 500 Growth	-4.5%	-10.3%	16.1%	21.8%	19.2%	16.7%	12.4%	S&P 500 Growth	17.6%	18.5%	16.6%	13.9%	
S&P 500 Pure Growth	-1.8%	-15.5%	9.4%	17.5%	16.2%	15.2%	12.3%	S&P 500 Pure Growth	21.0%	21.4%	19.0%	15.8%	1
S&P 500 Quality	-2.6%	-2.0%	18.0%	18.7%	14.8%	14.0%	11.6%	S&P 500 Quality	12.0%	16.2%	14.7%	12.8%	1
S&P 500 Buyback	-1.0%	0.5%	17.7%	16.4%	14.2%	15.3%	11.5%	S&P 500 Buyback	13.0%	22.6%	19.7%	16.4%	1
S&P 500 Dividend Aristocrats	-2.6%	0.3%	16.7%	14.0%	13.1%	14.1%	11.1%	S&P 500 Dividend Aristocrats	14.8%	17.5%	15.4%	12.8%	1
S&P 500 Momentum	-2.0%	-5.7%	14.7%	17.2%	17.2%	15.0%	10.6%	S&P 500 Momentum	15.2%	16.0%	15.4%	13.0%	1
S&P 500 QVM Top 90%	-3.2%	-3.2%	18.4%	18.8%	15.5%	14.8%	10.4%	S&P 500 QVM Top 90%	13.6%	17.5%	15.7%	13.2%	1
S&P 500 Equal Weight	-0.9%	0.7%	16.8%	16.3%	13.3%	13.9%	10.3%	S&P 500 Equal Weight	12.4%	20.1%	17.6%	14.6%	1
S&P 500 Low Volatility High Dividend	-0.8%	8.8%	19.0%	7.3%	6.6%	11.1%	10.0%	S&P 500 Low Volatility High Dividend	13.7%	20.0%	16.9%	13.7%	1
S&P 500 Revenue-Weighted	-0.7%	3.9%	22.1%	17.2%	13.7%	14.4%	9.8%	S&P 500 Revenue-Weighted	11.9%	18.5%	16.6%	13.9%	1
S&P 500 Low Volatility	-2.3%	2.3%	19.5%	9.8%	10.5%	12.2%	9.5%	S&P 500 Low Volatility	14.8%	15.3%	13.4%	11.5%	1
S&P 500 Minimum Volatility	-2.9%	-1.4%	17.8%	14.1%	12.0%	13.5%	9.4%	S&P 500 Minimum Volatility	13.9%	15.9%	14.2%	11.7%	1
S&P 500 Pure Value	0.8%	9.5%	22.1%	11.8%	9.2%	12.6%	8.7%	S&P 500 Pure Value	12.7%	27.2%	23.1%	19.1%	2
S&P 500 High Dividend	-0.2%	9.1%	20.9%	9.4%	8.5%	12.4%	8.0%	S&P 500 High Dividend	11.5%	24.1%	19.9%	15.6%	1
S&P 500 High Beta	1.5%	-0.9%	14.6%	24.7%	17.2%	15.1%	7.7%	S&P 500 High Beta	13.7%	30.7%	26.6%	22.4%	2
S&P 500 Enhanced Value	-0.7%	7.3%	22.9%	12.4%	10.1%	12.9%	7.6%	S&P 500 Enhanced Value	13.6%	25.9%	22.0%	18.3%	2
S&P 500 Value	-1.4%	3.8%	16.2%	13.4%	10.2%	11.9%	7.4%	S&P 500 Value	11.8%	18.4%	16.3%	13.7%	1
S&P 500	-3.0%	-3.9%	16.4%	18.2%	15.2%	14.6%	10.1%	S&P 500	13.2%	17.5%	15.6%	13.2%	1
1	Perform	ance figui	res for m	ore than	one year	are anni	ualized.						

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RELATIVE TO S&P 500



RELATIVE RETURN AND TRACKING ERROR

ERFORMANCE v S&P 500	1M	3M	1YR	3YR	5YR	10YR	15`
S&P 500 Growth	-1.5%	-6.4%	-0.3%	3.6%	4.0%	2.1%	2.3%
S&P 500 Pure Growth	1.2%	-11.6%	-7.0%	-0.8%	1.0%	0.7%	2.2%
S&P 500 Quality	0.4%	1.9%	1.6%	0.5%	-0.4%	-0.6%	1.5%
S&P 500 Buyback	2.0%	4.4%	1.3%	-1.9%	-0.9%	0.7%	1.4%
S&P 500 Dividend Aristocrats	0.4%	4.2%	0.3%	-4.2%	-2.1%	-0.5%	1.0%
S&P 500 Momentum	1.0%	-1.8%	-1.7%	-1.0%	2.1%	0.5%	0.5%
S&P 500 QVM Top 90%	-0.2%	0.7%	2.0%	0.6%	0.3%	0.2%	0.4%
S&P 500 Equal Weight	2.1%	4.6%	0.4%	-1.9%	-1.9%	-0.7%	0.2%
S&P 500 Low Volatility High Dividend	2.2%	12.7%	2.7%	-10.9%	-8.6%	-3.5%	-0.1%
S&P 500 Revenue-Weighted	2.3%	7.8%	5.7%	-1.1%	-1.4%	-0.2%	-0.2%
S&P 500 Low Volatility	0.7%	6.2%	3.1%	-8.4%	-4.7%	-2.4%	-0.6%
S&P 500 Minimum Volatility	0.1%	2.5%	1.4%	-4.2%	-3.1%	-1.1%	-0.7%
S&P 500 Pure Value	3.8%	13.4%	5.7%	-6.5%	-5.9%	-2.0%	-1.4%
S&P 500 High Dividend	2.8%	13.0%	4.5%	-8.9%	-6.7%	-2.2%	-2.0%
S&P 500 High Beta	4.5%	3.0%	-1.8%	6.5%	2.0%	0.5%	-2.4%
S&P 500 Enhanced Value	2.3%	11.2%	6.5%	-5.9%	-5.0%	-1.7%	-2.5%
S&P 500 Value	1.6%	7.7%	-0.2%	-4.8%	-4.9%	-2.7%	-2.7%
F	Performa	ance figui	res for m	ore than o	one year	are anni	ualized.

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Index Dashboard: S&P 500® Factor Indices February 2022

DEGREE OF PORTFOLIO OVER			ATIVE R	ETURN	CORRE		IS											ŗ
PORTFOLIO OVERLAP																		
	340 500	S&P 50 C	Sap San S	Set 500 p	S&P 5001	S&P 50 1.	S&P 500 C.	580 500 5.	Skp 500 1.	S&P 501 L.	S&P 50 P	S&P 500 L	Parise Store	S&P 500 C	Sab Sup B.	ap 200 r	S&P SALL	3&P 500
S&P 500 Momentum	100%	20%	20%	17%	6%	9%	19%	6%	0%	1%	17%	15%	18%	8%	17%	21%	16%	18%
S&P 500 Growth	20%	100%	24%	29%	8%	24%	60%	6%	1%	2%	31%	26%	27%	0%	12%	3%	20%	63%
S&P 500 Quality	20%	24%	100%	15%	5%	18%	29%	12%	5%	8%	21%	19%	19%	8%	16%	17%	15%	27%
S&P 500 Pure Growth	17%	29%	15%	100%	1%	13%	18%	4%	0%	0%	10%	0%	10%	0%	11%	3%	33%	19%
S&P 500 Low Volatility	6%	8%	5%	1%	100%	27%	20%	31%	27%	29%	18%	30%	21%	12%	8%	5%	0%	20%
S&P 500 Minimum Volatility	9%	24%	18%	13%	27%	100%	32%	16%	11%	11%	26%	30%	18%	8%	9%	8%	8%	33%
S&P 500 QVM Top 90%	19%	60%	29%	18%	20%	32%	100%	15%	9%	12%	56%	62%	48%	16%	17%	13%	15%	88%
S&P 500 Dividend Aristocrats	6%	6%	12%	4%	31%	16%	15%	100%	19%	17%	17%	22%	13%	10%	8%	8%	3%	14%
S&P 500 Low Volatility High Dividend	0%	1%	5%	0%	27%	11%	9%	19%	100%	58%	14%	18%	11%	16%	3%	12%	0%	9%
S&P 500 High Dividend	1%	2%	8%	0%	29%	11%	12%	17%	58%	100%	20%	21%	17%	33%	10%	21%	1%	12%
S&P 500 Revenue-Weighted	17%	31%	21%	10%	18%	26%	56%	17%	14%	20%	100%	60%	49%	35%	24%	32%	8%	60%
S&P 500 Value	15%	26%	19%	0%	30%	30%	62%	22%	18%	21%	60%	100%	55%	25%	16%	20%	9%	63%
S&P 500 Equal Weight	18%	27%	19%	10%	21%	18%	48%	13%	11%	17%	49%	55%	100%	26%	20%	21%	19%	50%
S&P 500 Pure Value	8%	0%	8%	0%	12%	8%	16%	10%	16%	33%	35%	25%	26%	100%	31%	53%	9%	15%
S&P 500 Buyback	17%	12%	16%	11%	8%	9%	17%	8%	3%	10%	24%	16%	20%	31%	100%	29%	14%	16%
S&P 500 Enhanced Value	21%	3%	17%	3%	5%	8%	13%	8%	12%	21%	32%	20%	21%	53%	29%	100%	5%	12%
S&P 500 High Beta	16%	20%	15%	33%	0%	8%	15%	3%	0%	1%	8%	9%	19%	9%	14%	5%	100%	17%

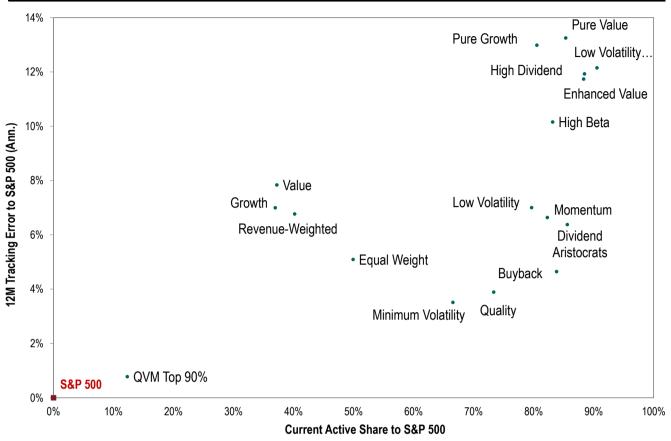
"Portfolio Overlap" is percentage of index weights held in common between any two indices.

RELATIVE RETURN CORRELATIONS	6						_		_		_		_	_			
	540-5001,	Sap 500 C	Sap 500 C	S&P 500 E	Skp 5001,	S&P 500 1 K	S&P 500 C.	5&P 500 Di	S&P 5001.	S&P 500 LE	Skp 500 p.	S&P 500 LL	5&P 500 F.	S&P 500 E.	une Value Sap 500 p.	58P 500 E.	S&P 500 LL
S&P 500 Momentum	1.00	0.60	0.24	0.47	0.06	0.06	0.02	-0.38	-0.44	-0.53	-0.54	-0.60	-0.49	-0.53	-0.46	-0.55	-0.46
S&P 500 Growth	0.60	1.00	0.08	0.59	-0.23	-0.15	-0.22	-0.67	-0.68	-0.72	-0.83	-0.99	-0.73	-0.78	-0.62	-0.79	-0.48
S&P 500 Quality	0.24	0.08	1.00	-0.02	0.07	0.16	-0.08	0.12	-0.15	-0.21	-0.06	-0.08	-0.18	-0.27	-0.20	-0.30	-0.29
S&P 500 Pure Growth	0.47	0.59	-0.02	1.00	-0.17	-0.16	0.08	-0.38	-0.39	-0.31	-0.44	-0.56	-0.06	-0.23	0.00	-0.25	0.06
S&P 500 Low Volatility	0.06	-0.23	0.07	-0.17	1.00	0.80	0.17	0.53	0.57	0.37	0.05	0.23	0.15	-0.06	-0.04	-0.06	-0.41
S&P 500 Minimum Volatility	0.06	-0.15	0.16	-0.16	0.80	1.00	0.03	0.53	0.51	0.31	0.07	0.16	0.08	-0.13	-0.12	-0.16	-0.43
S&P 500 QVM Top 90%	0.02	-0.22	-0.08	0.08	0.17	0.03	1.00	0.17	0.24	0.26	0.12	0.23	0.39	0.37	0.49	0.38	0.25
S&P 500 Dividend Aristocrats	-0.38	-0.67	0.12	-0.38	0.53	0.53	0.17	1.00	0.71	0.62	0.62	0.69	0.60	0.44	0.42	0.42	0.14
S&P 500 Low Volatility High Dividend	-0.44	-0.68	-0.15	-0.39	0.57	0.51	0.24	0.71	1.00	0.91	0.60	0.70	0.69	0.59	0.50	0.55	0.26
S&P 500 High Dividend	-0.53	-0.72	-0.21	-0.31	0.37	0.31	0.26	0.62	0.91	1.00	0.67	0.74	0.81	0.77	0.65	0.71	0.50
S&P 500 Revenue-Weighted	-0.54	-0.83	-0.06	-0.44	0.05	0.07	0.12	0.62	0.60	0.67	1.00	0.84	0.73	0.79	0.66	0.81	0.53
S&P 500 Value	-0.60	-0.99	-0.08	-0.56	0.23	0.16	0.23	0.69	0.70	0.74	0.84	1.00	0.76	0.79	0.65	0.81	0.50
S&P 500 Equal Weight	-0.49	-0.73	-0.18	-0.06	0.15	0.08	0.39	0.60	0.69	0.81	0.73	0.76	1.00	0.88	0.87	0.82	0.76
S&P 500 Pure Value	-0.53	-0.78	-0.27	-0.23	-0.06	-0.13	0.37	0.44	0.59	0.77	0.79	0.79	0.88	1.00	0.85	0.95	0.80
S&P 500 Buyback	-0.46	-0.62	-0.20	0.00	-0.04	-0.12	0.49	0.42	0.50	0.65	0.66	0.65	0.87	0.85	1.00	0.86	0.75
S&P 500 Enhanced Value	-0.55	-0.79	-0.30	-0.25	-0.06	-0.16	0.38	0.42	0.55	0.71	0.81	0.81	0.82	0.95	0.86	1.00	0.75
S&P 500 High Beta	-0.46	-0.48	-0.29	0.06	-0.41	-0.43	0.25	0.14	0.26	0.50	0.53	0.50	0.76	0.80	0.75	0.75	1.00
Correlation of weekly excess total retu	rns (versu	is S&P 500	0), last thi	ree years													

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Index Dashboard: S&P 500® Factor Indices February 2022

TRACKING ERROR & ACTIVE SHARE- RELATIVE TO S&P 500



INDEX	PAGE No.	LOW VOLATILITY	MOMENTUM	VALUE	HIGH BETA	DIVIDEND	QUALITY	SMALL SIZE
S&P 500 Low Volatility	7	73.0%	14.9%	9.5%	-56.4%	49.0%	-24.6%	45.3%
S&P 500 Minimum Volatility	7	25.8%	-7.9%	-4.7%	-36.5%	14.6%	-23.4%	13.0%
S&P 500 Low Volatility High Dividend	8	44.8%	-7.9%	50.2%	-74.8%	87.4%	-24.3%	50.5%
S&P 500 High Dividend	8	7.0%	0.5%	62.2%	-55.8%	84.8%	-23.4%	59.7%
S&P 500 Quality	9	-15.5%	0.1%	29.1%	0.8%	11.3%	11.0%	13.0%
S&P 500 Dividend Aristocrats	9	27.4%	0.5%	29.1%	-36.5%	47.8%	-12.7%	44.7%
S&P 500 Momentum	10	-13.9%	26.9%	32.1%	16.9%	-15.8%	-12.7%	16.6%
S&P 500 Revenue-Weighted	10	4.9%	1.4%	59.4%	-24.8%	26.7%	-12.7%	13.0%
S&P 500 QVM Top 90%	11	2.4%	8.2%	6.8%	-2.0%	3.5%	2.2%	6.9%
S&P 500 Growth	11	-22.5%	2.7%	-22.7%	36.8%	-25.3%	4.9%	-44.9%
S&P 500 Value	12	10.8%	-2.7%	36.6%	-37.0%	36.4%	-12.7%	26.0%
S&P 500 Pure Growth	12	-71.6%	2.5%	-6.0%	52.8%	-29.7%	-33.2%	18.5%
S&P 500 Pure Value	13	-15.8%	-5.8%	87.7%	-36.5%	47.8%	-2.6%	58.2%
S&P 500 Buyback	13	-7.3%	10.7%	63.6%	-5.9%	9.2%	-3.4%	41.6%
S&P 500 High Beta	14	-78.4%	-36.0%	-2.3%	56.0%	-31.1%	-29.5%	41.6%
S&P 500 Enhanced Value	14	-7.3%	9.2%	90.1%	-24.8%	47.8%	-16.9%	34.2%
S&P 500 Equal Weight	15	-10.6%	-8.9%	31.8%	-15.7%	17.3%	-23.4%	50.5%

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S&P 500 Low Volatility

Description

The S&P 500 Low Volatility is designed to measure the performance of the 100 stocks in the S&P 500 with the lowest volatility, measured on a 1-year trailing basis. The weighting of each stock is in inverse proportion to its volatility. As of February 28, 2022 the index comprised 100 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-2.3%	2.3%	-6.7%	19.5%	9.8%	10.5%	12.2%	9.5%
Relative to Benchmark	0.7%	6.2%	1.3%	3.1%	-8.4%	-4.7%	-2.4%	-0.6%
Index Volatility				14.8%	15.3%	13.4%	11.5%	12.0%
Tracking Error				7.0%	9.2%	8.2%	7.6%	8.2%

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.56

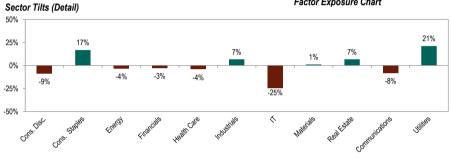
Portfolio Statistics	Index	Bmark
Active Share (Stock)	80%	0%
Active Share (Sector)	52%	0%
Concentration (HH Index)	101.2	144.9
Correlation (stock)	0.23	0.27
Ann. Turnover (last 10 yr)	0.60	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	23%	27%
12M - 1M price return	21%	26%
Book/Price	0.27	0.24
Earnings/Price	0.05	0.05
Sales/Price	0.39	0.38
Stock Beta	0.68	0.97
Yield (12M trailing)	2.1%	1.5%
R.O.E.	29%	34%
Market Cap (U.S. \$ bn)	94.4	516.8

Top Sector Tilts (versus benchmark) Sector Index Bmark Difference Utilities 24% 3% 21% 23% 17% Cons. Staples 6% IT 4% 29% 25% Cons. Disc. 3% 12% 9%







S&P 500 Minimum Volatility

Description

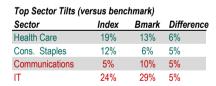
The S&P 500 Minimum Volatility uses an optimization process to find the portfolio of S&P 500 stocks, and weights, that would have demonstrated the lowest volatility on a historical basis, subject to constraints maintaining limiting sector and factor exposures. As of February 28, 2022 the index comprised 95 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-2.9%	-1.4%	-7.7%	17.8%	14.1%	12.0%	13.5%	9.4%
Relative to Benchmark	0.1%	2.5%	0.3%	1.4%	-4.2%	-3.1%	-1.1%	-0.7%
Index Volatility				13.9%	15.9%	14.2%	11.7%	12.9%
Tracking Error				3.5%	4.6%	4.0%	4.5%	5.4%

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.76

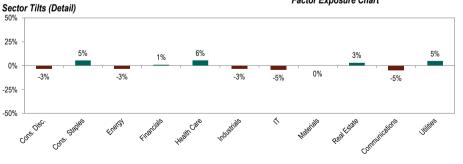
Portfolio Statistics	Index	Bmark
Active Share (Stock)	67%	0%
Active Share (Sector)	20%	0%
Concentration (HH Index)	153.7	144.9
Correlation (stock)	0.23	0.27
Ann. Turnover (last 10 yr)	0.35	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	25%	27%
12M - 1M price return	22%	26%
Book/Price	0.26	0.24
Earnings/Price	0.05	0.05
Sales/Price	0.35	0.38
Stock Beta	0.79	0.97
Yield (12M trailing)	1.8%	1.5%
R.O.E.	29%	34%
Market Cap (U.S. \$ bn)	254.0	516.8









7

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S&P 500 Low Volatility High Dividend

Index Dashboard: S&P 500® Factor Indices February 2022

Description The S&P 500 Low Volatility High Dividend measures the performance of the 50 least-volatile high dividend-yielding stocks in the S&P 500. Each component is weighted proportionally to its dividend yield, subject to single stock and sector constraints. As of February 28, 2022 the index comprised 50 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-0.8%	8.8%	0.1%	19.0%	7.3%	6.6%	11.1%	10.0%
Relative to Benchmark	2.2%	12.7%	8.1%	2.7%	-10.9%	-8.6%	-3.5%	-0.1%
Index Volatility				13.7%	20.0%	16.9%	13.7%	15.0%
Tracking Error				12.2%	10.5%	9.3%	8.3%	8.5%

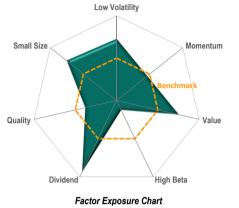
Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.56

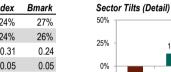
Portfolio Statistics	Index	Bmark
Active Share (Stock)	91%	0%
Active Share (Sector)	51%	0%
Concentration (HH Index)	209.9	144.9
Correlation (stock)	0.30	0.27
Ann. Turnover (last 10 yr)	0.58	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	24%	27%
12M - 1M price return	24%	26%
Book/Price	0.31	0.24
Earnings/Price	0.05	0.05
Sales/Price	0.48	0.38
Stock Beta	0.60	0.97
Yield (12M trailing)	3.0%	1.5%
R.O.E.	27%	34%
Market Cap (U.S. \$ bn)	69.6	516.8

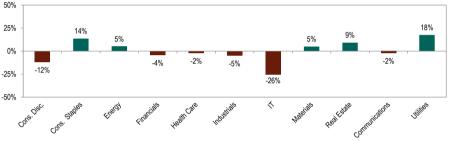


Top Sector Tilts (versus benchmark)









Small Size

S&P 500 High Dividend

Description

The S&P 500 High Dividend is constructed from the 80 constituents of the S&P 500 with the highest indicated dividend yield. The index is equal weighted. As of February 28, 2022 the index comprised 80 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y	
Total Return (Ann)	-0.2%	9.1%	1.6%	20.9%	9.4%	8.5%	12.4%	8.0%	
Relative to Benchmark	2.8%	13.0%	9.7%	4.5%	-8.9%	-6.7%	-2.2%	-2.0%	
Index Volatility				11.5%	24.1%	19.9%	15.6%	19.1%	
Tracking Error				11.9%	13.9%	11.5%	9.5%	10.5%	
Benchmark: S&P 500	enchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.76								

ng beta to benchmark

Portfolio Statistics	Index	Bmark
Active Share (Stock)	88%	0%
Active Share (Sector)	50%	0%
Concentration (HH Index)	125.7	144.9
Correlation (stock)	0.38	0.27
Ann. Turnover (last 10 yr)	0.40	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	26%	27%
12M - 1M price return	29%	26%
Book/Price	0.37	0.24
Earnings/Price	0.06	0.05
Sales/Price	0.52	0.38
Stock Beta	0.70	0.97
Yield (12M trailing)	2.7%	1.5%
R.O.E.	24%	34%
Market Cap (U.S. \$ bn)	59.6	516.8



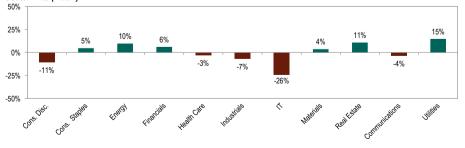




Low Volatility

Benchmark

Momentum



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S&P 500 Quality

Description

The S&P 500 Quality is designed to track the 100 stocks in the S&P 500 with the highest quality score, which is calculated based on return on equity, accruals ratio and financial leverage ratio. The weighting is proportional to both the quality score, and the market capitalization, of each component, subject to single stock and sector constraints. As of February 28, 2022 the index comprised 100 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-2.6%	-2.0%	-6.6%	18.0%	18.7%	14.8%	14.0%	11.6%
Relative to Benchmark	0.4%	1.9%	1.4%	1.6%	0.5%	-0.4%	-0.6%	1.5%
Index Volatility				12.0%	16.2%	14.7%	12.8%	14.4%
Tracking Error				3.9%	3.6%	3.4%	2.8%	3.3%

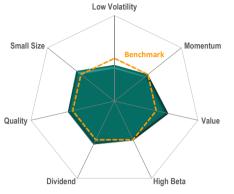
Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 1

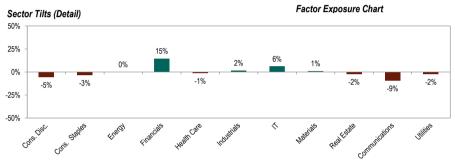
Portfolio Statistics	Index	Bmark
Active Share (Stock)	73%	0%
Active Share (Sector)	24%	0%
Concentration (HH Index)	249.1	144.9
Correlation (stock)	0.26	0.27
Ann. Turnover (last 10 yr)	0.62	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	29%	27%
12M - 1M price return	22%	26%
Book/Price	0.32	0.24
Earnings/Price	0.05	0.05
Sales/Price	0.50	0.38
Stock Beta	0.97	0.97
Yield (12M trailing)	1.7%	1.5%
R.O.E.	35%	34%
Market Cap (U.S. \$ bn)	357.5	516.8

Sector Index Bmark Diff. Financials 26% 11% 15% IT 35% 29% 6% 9% Communications 1% 10% Cons. Disc. 7% 12% 5%

Top Sector Tilts (versus benchmark)





S&P 500 Dividend Aristocrats

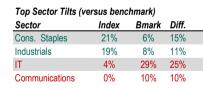
Description

The S&P 500 Dividend Aristocrats measures the performance S&P 500 companies that have increased dividends every year for the last 25 consecutive years. The Index is equally weighted at each rebalance. As of February 28, 2022 the index comprised 65 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-2.6%	0.3%	-6.6%	16.7%	14.0%	13.1%	14.1%	11.1%
Relative to Benchmark	0.4%	4.2%	1.4%	0.3%	-4.2%	-2.1%	-0.5%	1.0%
Index Volatility				14.8%	17.5%	15.4%	12.8%	14.6%
Tracking Error				6.4%	5.4%	5.2%	4.6%	5.5%
Benchmark: S&P 500.	1 Yr trailing l	beta to ber	nchmark = ().71				

Portfolio Statistics	Index	Bmark
Active Share (Stock)	86%	0%
Active Share (Sector)	41%	0%
Concentration (HH Index)	155.2	144.9
Correlation (stock)	0.29	0.27
Ann. Turnover (last 10 yr)	0.17	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	24%	27%
12M - 1M price return	21%	26%
Book/Price	0.28	0.24
Earnings/Price	0.05	0.05
Sales/Price	0.49	0.38
Stock Beta	0.70	0.97
Yield (12M trailing)	2.3%	1.5%
R.O.E.	27%	34%
Market Cap (U.S. \$ bn)	76.9	516.8









Source: S&P Dow Jones Indices LLC and/or its affiliates. Data as of February 28, 2022

Index Dashboard: S&P 500® Factor Indices February 2022

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S&P 500 Momentum

Description

The S&P 500 Momentum comprises the top 100 stocks in the S&P 500 based on 12M prior risk-adjusted performance (excluding the most recent month at the rebalance). The weighting is inversely proportional to the trailing volatility of each component, subject to single stock and sector constraints. As of February 28, 2022 the index comprised 100 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-2.0%	-5.7%	-8.2%	14.7%	17.2%	17.2%	15.0%	10.6%
Relative to Benchmark	1.0%	-1.8%	-0.2%	-1.7%	-1.0%	2.1%	0.5%	0.5%
Index Volatility				15.2%	16.0%	15.4%	13.0%	15.2%
Tracking Error				6.6%	7.3%	6.5%	5.6%	6.5%

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 1.13

Portfolio Statistics	Index	Bmark
Active Share (Stock)	82%	0%
Active Share (Sector)	33%	0%
Concentration (HH Index)	320.7	144.9
Correlation (stock)	0.42	0.27
Ann. Turnover (last 10 yr)	1.15	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	28%	27%
12M - 1M price return	31%	26%
Book/Price	0.24	0.24
Earnings/Price	0.06	0.05
Sales/Price	0.39	0.38
Stock Beta	1.03	0.97
Yield (12M trailing)	1.1%	1.5%
R.O.E.	31%	34%
Market Cap (U.S. \$ bn)	253.0	516.8

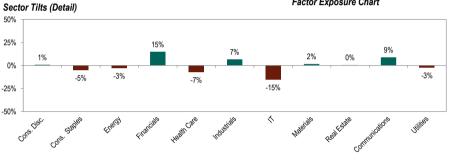
Top Sector Tilts (versus benchmark) Sector Index Bmark Diff. Financials 26% 11% 15% 19% 10% 9% Communications IT 13% 29% 15% Health Care 6% 13% 7%



Index Dashboard: S&P 500® Factor Indices

February 2022

Factor Exposure Chart



S&P 500 Revenue-Weighted

Description

The S&P 500 Revenue-Weighted comprises all the constituents of the S&P 500, weighted in proportion to revenues. As of February 28, 2022 the index comprised 504 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-0.7%	3.9%	-2.5%	22.1%	17.2%	13.7%	14.4%	9.8%
Relative to Benchmark	2.3%	7.8%	5.5%	5.7%	-1.1%	-1.4%	-0.2%	-0.2%
Index Volatility				11.9%	18.5%	16.6%	13.9%	16.6%
Tracking Error				6.8%	5.7%	4.8%	3.8%	3.7%
Benchmark: S&P 500.	1 Yr trailing t	beta to ber	nchmark = (0.82				

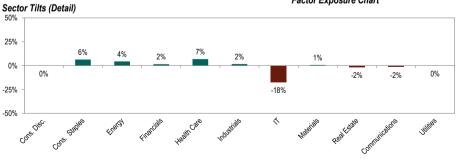
Portfolio Statistics	Index	Bmark
Active Share (Stock)	40%	0%
Active Share (Sector)	21%	0%
Concentration (HH Index)	96.8	144.9
Correlation (stock)	0.25	0.27
Ann. Turnover (last 10 yr)	0.20	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	26%	27%
12M - 1M price return	24%	26%
Book/Price	0.30	0.24
Earnings/Price	0.06	0.05
Sales/Price	0.73	0.38
Stock Beta	0.85	0.97
Yield (12M trailing)	1.9%	1.5%
R.O.E.	29%	34%
Market Cap (U.S. \$ bn)	248.0	516.8





Factor Exposure Chart



Source: S&P Dow Jones Indices LLC and/or its affiliates. Data as of February 28, 2022

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S&P 500 QVM Top 90%

Description

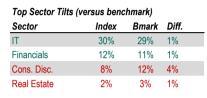
The S&P 500 Quality, Value & Momentum Top 90% Multi-factor Index is designed to measure the performance of 90% of the stocks within the S&P 500, after excluding those with the lowest quality, value, and momentum as determined by a multi-factor score. As of February 28, 2022 the index comprised 449 constituents.

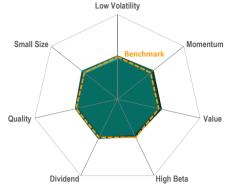
Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-3.2%	-3.2%	-7.8%	18.4%	18.8%	15.5%	14.8%	10.4%
Relative to Benchmark	-0.2%	0.7%	0.2%	2.0%	0.6%	0.3%	0.2%	0.4%
Index Volatility				13.6%	17.5%	15.7%	13.2%	15.2%
Tracking Error				0.8%	0.9%	0.7%	0.6%	0.7%

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.99

Portfolio Statistics	Index	Bmark
Active Share (Stock)	12%	0%
Active Share (Sector)	5%	0%
Concentration (HH Index)	171.5	144.9
Correlation (stock)	0.27	0.27
Ann. Turnover (last 10 yr)	0.20	0.04

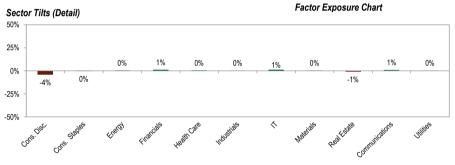
Index-Weighted Avg.	Index	Bmark
Stock Volatility	27%	27%
12M - 1M price return	27%	26%
Book/Price	0.26	0.24
Earnings/Price	0.05	0.05
Sales/Price	0.40	0.38
Stock Beta	0.96	0.97
Yield (12M trailing)	1.5%	1.5%
R.O.E.	34%	34%
Market Cap (U.S. \$ bn)	506.8	516.8





Index Dashboard: S&P 500® Factor Indices

February 2022



S&P 500 Growth

Description

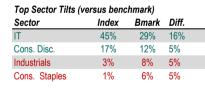
The S&P 500 Growth is comprises S&P 500 stocks with above-average combinations of the ratio of earnings growth to price, sales growth, and momentum. The weighting is by capitalization, although the weight of some stocks is divided between the Value and Growth indices. As of February 28, 2022 the index comprised 239 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-4.5%	-10.3%	-12.5%	16.1%	21.8%	19.2%	16.7%	12.4%
Relative to Benchmark	-1.5%	-6.4%	-4.5%	-0.3%	3.6%	4.0%	2.1%	2.3%
Index Volatility				17.6%	18.5%	16.6%	13.9%	15.4%
Tracking Error				7.0%	5.5%	4.7%	3.8%	3.8%

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 1.2

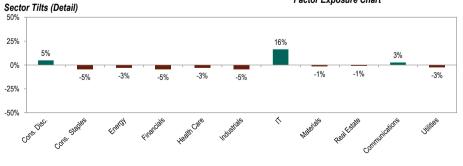
Portfolio Statistics	Index	Bmark
Active Share (Stock)	37%	0%
Active Share (Sector)	24%	0%
Concentration (HH Index)	482.7	144.9
Correlation (stock)	0.44	0.27
Ann. Turnover (last 10 yr)	0.24	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	28%	27%
12M - 1M price return	30%	26%
Book/Price	0.18	0.24
Earnings/Price	0.04	0.05
Sales/Price	0.29	0.38
Stock Beta	1.16	0.97
Yield (12M trailing)	0.9%	1.5%
R.O.E.	42%	34%
Market Cap (U.S. \$ bn)	896.1	516.8









Source: S&P Dow Jones Indices LLC and/or its affiliates. Data as of February 28, 2022.

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S&P 500 Value

Description

The S&P 500 Value comprises S&P 500 stocks with above-average combinations of book value-to-price, earnings-to-price, and sales-to-price. The weighting is by capitalization, although the weight of some stocks is divided between the Value and Growth indices. As of February 28, 2022 the index comprised 449 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-1.4%	3.8%	-3.0%	16.2%	13.4%	10.2%	11.9%	7.4%
Relative to Benchmark	1.6%	7.7%	5.0%	-0.2%	-4.8%	-4.9%	-2.7%	-2.7%
Index Volatility				11.8%	18.4%	16.3%	13.7%	16.4%
Tracking Error				7.8%	6.6%	5.7%	4.4%	4.3%

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.78

Portfolio Statistics	Index	Bmark
Active Share (Stock)	37%	0%
Active Share (Sector)	24%	0%
Concentration (HH Index)	68.2	144.9
Correlation (stock)	0.27	0.27
Ann. Turnover (last 10 yr)	0.26	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	25%	27%
12M - 1M price return	22%	26%
Book/Price	0.31	0.24
Earnings/Price	0.05	0.05
Sales/Price	0.48	0.38
Stock Beta	0.76	0.97
Yield (12M trailing)	2.0%	1.5%
R.O.E.	26%	34%
Market Cap (U.S. \$ bn)	123.7	516.8

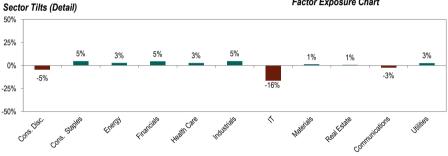
Top Sector Tilts (versus benchmark) Sector Index Bmark Diff. Industrials 13% 8% 5% Cons. Staples 11% 6% 5% IT 12% 29% 16% Cons. Disc. 7% 12% 5%



Index Dashboard: S&P 500® Factor Indices

February 2022





S&P 500 Pure Growth

Description

The S&P 500 Pure Growth comprises those S&P 500 stocks with 100% of their market cap in the S&P 500 Growth index and a growth score in the highest quartile. The weighting is proportional to the growth score. As of February 28, 2022 the index comprised 56 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-1.8%	-15.5%	-14.9%	9.4%	17.5%	16.2%	15.2%	12.3%
Relative to Benchmark	1.2%	-11.6%	-6.8%	-7.0%	-0.8%	1.0%	0.7%	2.2%
Index Volatility				21.0%	21.4%	19.0%	15.8%	18.1%
Tracking Error				13.0%	8.7%	7.5%	6.3%	6.3%
Development ORD 500	A Mature III and	hate to have	ale and a set					

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 1.4

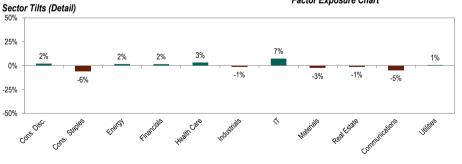
Portfolio Statistics	Index	Bmark
Active Share (Stock)	81%	0%
Active Share (Sector)	17%	0%
Concentration (HH Index)	197.5	144.9
Correlation (stock)	0.41	0.27
Ann. Turnover (last 10 yr)	0.65	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	36%	27%
12M - 1M price return	38%	26%
Book/Price	0.23	0.24
Earnings/Price	0.05	0.05
Sales/Price	0.34	0.38
Stock Beta	1.23	0.97
Yield (12M trailing)	1.1%	1.5%
R.O.E.	30%	34%
Market Cap (U.S. \$ bn)	172.0	516.8









Source: S&P Dow Jones Indices LLC and/or its affiliates. Data as of February 28, 2022

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S&P 500 Pure Value

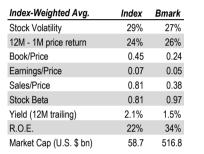
Description

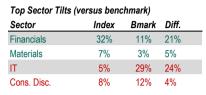
The S&P 500 Pure Value comprises S&P 500 stocks with 100% of their market cap in the S&P 500 Value index and a value score in the highest quartile. The weighting is proportional to the value score. As of February 28, 2022 the index comprised 122 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	0.8%	9.5%	2.8%	22.1%	11.8%	9.2%	12.6%	8.7%
Relative to Benchmark	3.8%	13.4%	10.8%	5.7%	-6.5%	-5.9%	-2.0%	-1.4%
Index Volatility				12.7%	27.2%	23.1%	19.1%	23.8%
Tracking Error				13.3%	15.7%	12.8%	10.2%	12.7%
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Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.89

Portfolio Statistics	Index	Bmark
Active Share (Stock)	85%	0%
Active Share (Sector)	36%	0%
Concentration (HH Index)	106.8	144.9
Correlation (stock)	0.44	0.27
Ann. Turnover (last 10 yr)	0.45	0.04



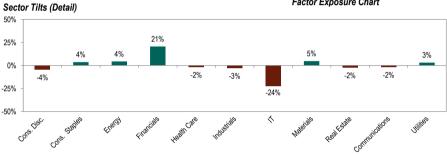




Index Dashboard: S&P 500® Factor Indices

February 2022





S&P 500 Buyback

Description

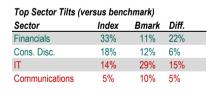
The S&P 500 Buyback is designed to measure the performance of the top 100 stocks in the S&P 500 by buyback ratio. The components are equally weighted. As of February 28, 2022 the index comprised 100 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-1.0%	0.5%	-5.3%	17.7%	16.4%	14.2%	15.3%	11.5%
Relative to Benchmark	2.0%	4.4%	2.7%	1.3%	-1.9%	-0.9%	0.7%	1.4%
Index Volatility				13.0%	22.6%	19.7%	16.4%	18.4%
Tracking Error				4.6%	8.7%	7.2%	6.0%	6.2%

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.91

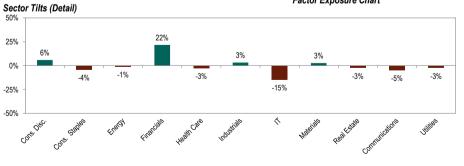
Portfolio Statistics	Index	Bmark
Active Share (Stock)	84%	0%
Active Share (Sector)	33%	0%
Concentration (HH Index)	100.8	144.9
Correlation (stock)	0.29	0.27
Ann. Turnover (last 10 yr)	0.92	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	28%	27%
12M - 1M price return	33%	26%
Book/Price	0.34	0.24
Earnings/Price	0.06	0.05
Sales/Price	0.63	0.38
Stock Beta	0.93	0.97
Yield (12M trailing)	1.8%	1.5%
R.O.E.	29%	34%
Market Cap (U.S. \$ bn)	118.0	516.8









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S&P 500 High Beta

Description

The S&P 500 High Beta is designed to measure the performance of the top 100 stocks in the S&P 500 by sensitivity to market returns. The weighting is in proportional to the beta coefficient of each constituent. As of February 28, 2022 the index comprised 100 constituents.

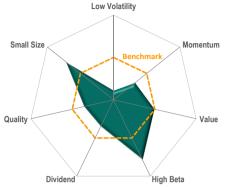
Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	1.5%	-0.9%	-4.3%	14.6%	24.7%	17.2%	15.1%	7.7%
Relative to Benchmark	4.5%	3.0%	3.7%	-1.8%	6.5%	2.0%	0.5%	-2.4%
Index Volatility				13.7%	30.7%	26.6%	22.4%	27.5%
Tracking Error				10.2%	17.9%	14.9%	12.8%	15.0%

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 1.35

Portfolio Statistics	Index	Bmark
Active Share (Stock)	83%	0%
Active Share (Sector)	28%	0%
Concentration (HH Index)	103.8	144.9
Correlation (stock)	0.50	0.27
Ann. Turnover (last 10 yr)	0.88	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	34%	27%
12M - 1M price return	31%	26%
Book/Price	27%	24%
Earnings/Price	5%	5%
Sales/Price	39%	38%
Stock Beta	115%	97%
Yield (12M trailing)	1.1%	1.5%
R.O.E.	27%	34%
Market Cap (U.S. \$ bn)	94.1	516.8

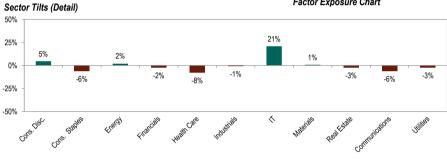
Top Sector Tilts (versus benchmark) Sector Index Bmark Diff. IT 50% 29% 21% 17% Cons. Disc. 12% 5% Health Care 5% 8% 13% Cons. Staples 0% 6% 6%



Index Dashboard: S&P 500® Factor Indices

February 2022





S&P 500 Enhanced Value

Description

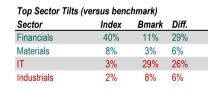
The S&P 500 Enhanced Value is designed to measure the performance of the 100 stocks in the S&P 500 with the highest average book value-to-price, earnings-to-price, and sales-to-price. The weighting is proportional to both the value score and the market capitalization of each component. As of February 28, 2022 the index comprised 99 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-0.7%	7.3%	0.4%	22.9%	12.4%	10.1%	12.9%	7.6%
Relative to Benchmark	2.3%	11.2%	8.4%	6.5%	-5.9%	-5.0%	-1.7%	-2.5%
Index Volatility				13.6%	25.9%	22.0%	18.3%	21.8%
Tracking Error				11.7%	14.1%	11.6%	9.5%	10.1%
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Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.8

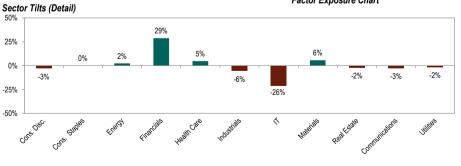
Portfolio Statistics	Index	Bmark
Active Share (Stock)	88%	0%
Active Share (Sector)	42%	0%
Concentration (HH Index)	224.6	144.9
Correlation (stock)	0.42	0.27
Ann. Turnover (last 10 yr)	0.42	0.04

Index-Weighted Avg.	Index	Bmark
Stock Volatility	26%	27%
12M - 1M price return	26%	26%
Book/Price	0.46	0.24
Earnings/Price	0.08	0.05
Sales/Price	0.85	0.38
Stock Beta	0.77	0.97
Yield (12M trailing)	2.3%	1.5%
R.O.E.	22%	34%
Market Cap (U.S. \$ bn)	107.4	516.8









Source: S&P Dow Jones Indices LLC and/or its affiliates. Data as of February 28, 2022

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S&P 500 Equal Weight

Index Dashboard: S&P 500® Factor Indices February 2022

Description

The S&P 500 Equal Weight comprises all the constituents in the S&P 500, equally weighted at each quarterly rebalance. As of February 28, 2022 the index comprised 505 constituents.

Index Statistics	1M	3M	YTD	12M	3Y	5Y	10Y	15Y
Total Return (Ann)	-0.9%	0.7%	-5.2%	16.8%	16.3%	13.3%	13.9%	10.3%
Relative to Benchmark	2.1%	4.6%	2.8%	0.4%	-1.9%	-1.9%	-0.7%	0.2%
Index Volatility				12.4%	20.1%	17.6%	14.6%	17.8%
Tracking Error				5.1%	6.0%	5.0%	3.9%	4.7%

Benchmark: S&P 500. 1 Yr trailing beta to benchmark = 0.93

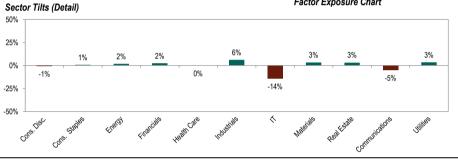
Index	Bmark
50%	0%
21%	0%
20.3	144.9
0.25	0.27
0.22	0.04
	50% 21% 20.3 0.25

Index-Weighted Avg.	Index	Bmark
Stock Volatility	28%	27%
12M - 1M price return	25%	26%
Book/Price	0.29	0.24
Earnings/Price	0.05	0.05
Sales/Price	0.48	0.38
Stock Beta	0.88	0.97
Yield (12M trailing)	1.7%	1.5%
R.O.E.	26%	34%
Market Cap (U.S. \$ bn)	75.2	516.8

Top Sector Tilts (versus benchmark) Sector Index Bmark Diff. Industrials 14% 8% 6% Utilities 6% 3% 3% 14% IT 14% 29% Communications 5% 10% 5%



Factor Exposure Chart



More Factor Resources



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Factor Allocator is a complementary web-based tool from Optimal Asset Management that allows advisors to build and analyse simulated portfolios using S&P Factor Indices. Using 15 years of S&P factor index data, explore how individual risk factors behave together and in different market conditions to meet specific performance goals. Visit factorallocator.com/spdji.

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KEY TO FACTOR SCORINGS FOR INDICES

Factor Definitions

Each constituent of the S&P 500 index is provided with a factor "score" for each of Beta, Volatility, Momentum, Dividend, Size, Value and Quality.

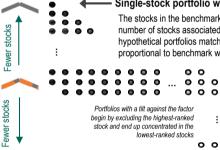
Low Volatility	Factor	Measurement at single-stock level
	Volatility	Trailing 12-month daily volatility.
Small Size Momentum	Momentum	Twelve-month total return change as of one month ago ("13 minus 1 momentum"), divided by the daily volatility during the twelve-month period that ended one month prior. For more details, see the <u>S&P</u> <u>Momentum</u> methodology.
S&P	Value	The average of (normalized) earnings to price ratio, book to price ratio and sales to price ratio. For more details, see the <u>S&P Value</u> methodology.
Quality 500 Value	Beta	Trailing 1 year beta of daily returns to the benchmark's returns.
Value	Dividend	Trailing 12-month dividend.
Dividend High Beta	Quality	The average of the (normalized) return on equity, the negative of the accruals ratio and the negative of the financial leverage ratio. For more details, see the <u>S&P Quality</u> methodology. Average and standard deviations for each metric follow below.
Dividend	Size	Free-float market capitalization.

Index Factor Ranking and Factor Diagram Scaling

Index Scores

Each index is provided score in each factor from -100% to +100% based on how much of the total capitalization of the benchmark must be excluded in order to provide a portfolio of stocks with similar exposure to that factor. This is done by examining a ranked series of hypothetical cap-weighted portfolios, including or excluding an increasing number of the stocks with the highest or lowest scores. An illustration of the process is below, further details may be found at this link.

Factor Diagram Axis



Single-stock portfolio with the highest possible factor score

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The stocks in the benchmark are ranked in order from highest to lowest factor score, and we examine portfolios including or excluding a varying number of stocks associated to high or lower factor scores. The score in each factor (and its level on the chart) reflects the active share of a hypothetical portfolios matching the factor score of that index. The weights of stocks within the hypothetical comparison portfolios are set proportional to benchmark weights, i.e. free-float market capitalization.

> weighted average score among all stocks Weighting matters to the ranking of the index. Each the ranked portfolios of stocks is given a factor score through the capitalization-weighted average. Factor indices can use alternative weightings, which can

Benchmark Portfolio has a factor rank defined by that of a cap-

- Single-stock portfolio with the lowest possible factor score

Notes On Additional Index Statistics

Statistic	Notes
Active Share (Stock)	Ranging from 0 to 100%, "active share" is a measure of how much a portfolio's composition differs from that of its benchmark, and provides the amount of trading theoretically required to switch from a position in one to a position in the other. The Active Share (Stock) for each index is calculated as the absolute sum of difference between S&P 500 stock weights and Index stock weights, divided by two.
Active Share (Sector)	The Active Share (Sector) is the absolute sum of difference between S&P 500 sector weights and Index sector weights, divided by two.
Concentration (HH Index)	The Herfindahl-Hirschman ("HH") concentration measure is equal to the index constituent's percentage weights, squared. For example, the HH measure of a single-stock portfolio is 10,000 (the maximum possible). The HH measure of a 100-stock, equally weighted index is 100.
Correlation (Stock)	Calculated as the weighted-average 1Yr trailing daily variance of current index constituents, divided by the 1Yr trailing daily Index variance. The value approximates an average stock-to-stock correlation of index constituents, weighted proportionally to both constituent weight and constituent volatility.

provide higher factor exposures with fewer stocks.

Benchmark Statistics for Value, Quality and Momentum (normalization variables)

		VALUE			QUALITY		MOM	ENTUM
	Earnings to Price	Book to Price	Sales to Price	Accrual Ratio	Return on Equity	Leverage Ratio	13M - 1M Return	Daily Price Volatility
S&P 500 index-weighted average	0.045	0.209	0.338	10.54%	35.26%	1.29	28.33%	1.64%
S&P 500 index-weighted standard deviation	0.033	0.220	0.374	19.60%	28.45%	1.09	25.15%	0.55%

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Performance Disclosure

The S&P 500 Buyback Index was launched November 29, 2012. The S&P 500 Enhanced Value Index was launched April 27, 2015. The S&P 500 Revenue-Weighted was launched on Dec 30, 2005. The S&P 500 Pure Value was launched December 16, 2005. The S&P 500 Quality Index was launched July 8, 2014. The S&P 500 Pure Growth was launched December 16, 2005. The S&P 500 High Beta Index was launched April 4, 2011. The S&P 500 Equal Weight Index was launched Jaury 8, 2003. The S&P 500 High Beta Index was launched April 4, 2011. The S&P 500 Equal Weight Index was launched Jaury 8, 2003. The S&P 500 Low Valitility High Dividend Index was launched September 17, 2012. The S&P 500 Low Valitility High Dividend Index was launched September 17, 2012. The S&P 500 Low Valitility Index was launched April 4, 2011. All information presented prior to an Index's Launch Date is hypothetical (back-tested), not actual performance. The back-test dalculations are based on the same methodology that was in effect on the index Launch Date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general Current market tenvironment, index methodology uses available at www.spglobal.com/spdi). Past performance of the Index is not an indication of future results. Back-tested performance, cannot account for all financial risk that may affect ensults and may be considered to reflect survivor/look ahead bias. Actual returms may differ significantly from, and liquidity thresholds market for indication of guarantee of future results. Back-tested performance, Rest performance is not an indication or guarantee of future results. Back-tested performance, Rest performance is not an indication or guarantee of future results. Actual returms mark differ significantly from, and guidity to market the stead returns. Past performance is not an indication or guarantee of future results. Back-tested performance, Rest performance is not an indication or guarantee of future results. Please refer to the methodology to t

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