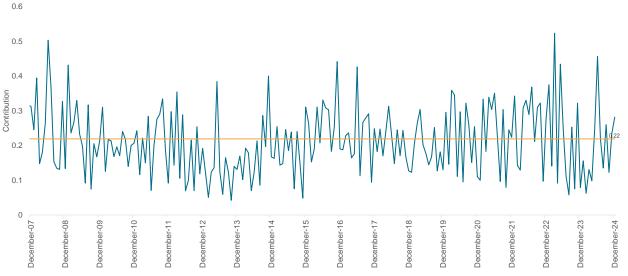


SECTOR	Select Sectors			S&P Mid(S&P MidCap 400 Capped Sectors			S&P SmallCap 600 Capped Sectors			S&P 500 Ex Sectors	
SECTOR	MTD	3M	12M	MTD	3M	12M	MTD	3M	12M	MTD	3M	12M
Consumer Discretionary	1.14%	12.14%	26.62%	-4.83%	-0.84%	9.42%	-6.36%	-1.38%	6.80%			
Consumer Staples	-4.80%	-4.63%	12.34%	-6.75%	3.01%	14.35%	-5.07%	1.21%	1.27%			
Energy	-9.52%	-1.63%	5.65%	-6.19%	11.76%	13.14%	-8.65%	-0.99%	-5.34%	-2.13%	2.58%	25.78%
Financials***	-5.43%	7.09%	30.56%	-7.93%	2.03%	18.86%	-8.41%	1.03%	15.86%	-1.71%	1.98%	24.75%
Real Estate	-8.59%	-7.94%	5.23%	-1.95%	2.03%	10.00%	-0.41%	1.03%	13.00%			
Health Care	-6.21%	-10.30%	2.58%	-4.91%	-3.68%	5.26%	-7.55%	-3.88%	3.92%	-1.93%	4.08%	28.21%
Industrials	-7.95%	-2.27%	17.47%	-9.83%	-1.39%	13.48%	-8.65%	1.95%	17.16%			
Materials	-10.78%	-12.29%	0.21%	-13.19%	-6.62%	-2.47%	-12.99%	-7.94%	0.94%			
Technology	-0.33%	3.14%	21.74%	-1.34%	2.82%	24.38%	-5.66%	-0.41%	-0.81%	-4.00%	1.28%	20.26%
Utilities**	-7.94%	-5.51%	23.43%	-5.46%	0.07%	21.97%	-9.10%	-1.36%	11.08%			
Communication Services	-1.37%	7.34%	34.79%	-5.40 /6	0.07 /0	21.31/0	-9.1070	-1.30 /6	11.0070			

CONTRIBUTION OF SECTORS TO S&P 500 DISPERSION*



COMMENTARY

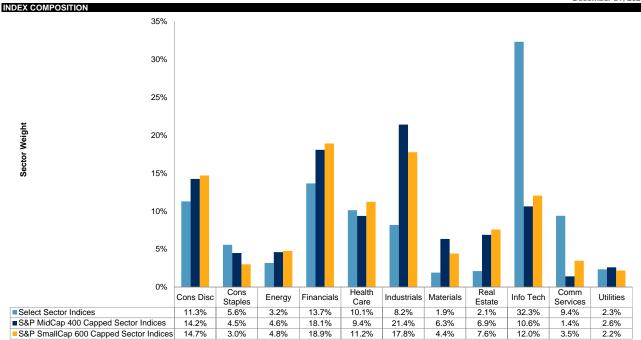
- All Select Sectors posted gains in 2024, led by Communication Services.
- The contribution of cross-sector effects to total S&P 500® dispersion moved further above its long-term average in December, indicating strengthening relative rewards for sector weighting decisions.

^{*}See pages 11-13 of *Sector Effects in the S&P 500®: The Role of Sectors, in Risk, Pricing, and Active Returns* for details on the strength of sector-level effects in the S&P 500.

^{**}Utilities MidCap and SmallCap Capped Sectors include constituents of the GICS® Utilities and Communication Services sectors.

^{***}Financials & Real Estate MidCap and SmallCap Capped Sectors combines constitutents of the GICS® Financials and Real Estate sectors. S&P 500 Ex-Financials & Real Estate excludes members of the GICS Financials and Real Estate sectors.

Source: S&P Dow Jones Indices LLC and/or its affiliates. Data as of December 31, 2024.



KEY TO FACTOR SCORINGS FOR INDICES

Factor Definitions

Each constituent of the S&P 1500 index is provided with a factor "score" for each of Beta, Volatility, Momentum, Dividend, Size, Value and Quality.



Factor	Measurement at single-stock level
Volatility	Trailing 12-month daily return volatility
Momentum	Twelve-month price change as of one month ago ("13 minus 1 momentum"), divided by the daily volatility during the twelve-month period that ended one month ago. For more details, see the <u>S&P Momentum</u> methodology
Value	The average of (normalized) earnings to price ratio, book to price ratio and sales to price ratio. For more details, see the S&P Value methodology.
Beta	Trailing 1 year beta of stock daily returns to the benchmark's return.
Dividend	Trailing 12-month dividend
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.
Size	Free-float market capitalization

Index Factor Ranking and Factor Diagram Scaling

Index Scores

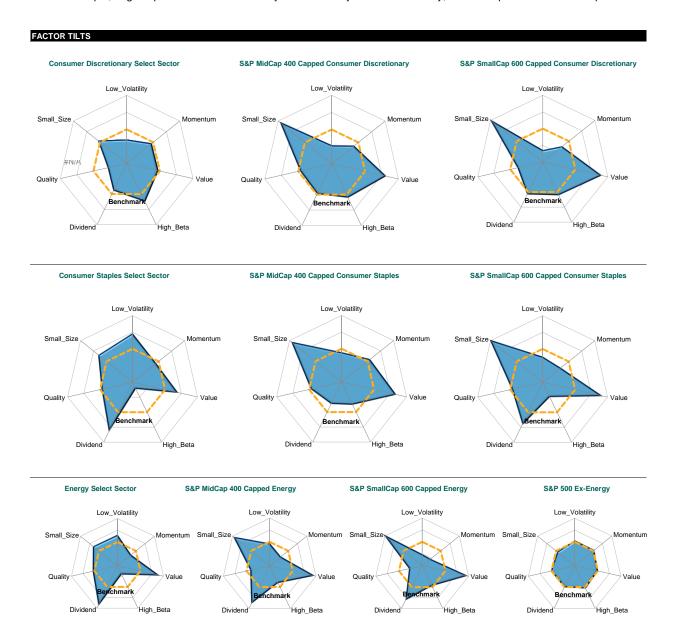
Each index is provided a score in each factor from -100% to +100% based on how much of the total capitalization of the benchmark must be excluded in order to provide a portfolio of stocks with similar exposure to that factor. This is done by examining a ranked series of hypothetical cap-weighted portfolios,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

Factor Diagram Axis



COMMENTARY

- The diagrams below illustrate factor exposures relative to the S&P 1500 across sectors, from large to small-caps.
- For example, large-cap Consumer Discretionary has a tilt away from Low Volatility, which deepens at the small-cap level.



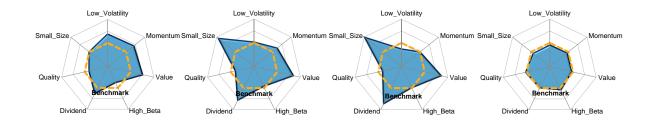
FACTOR TILTS

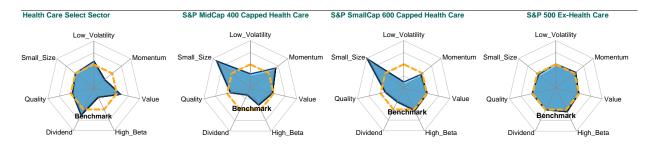
Financial Select Sector

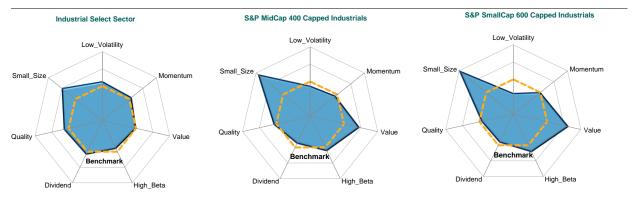
S&P MidCap 400 Capped Fin

S&P SmallCap 600 Capped Fin & Real Estate*

S&P 500 Ex-Fin & Real Estate





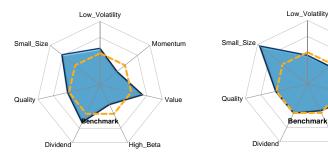


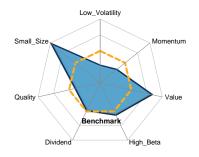


S&P MidCap 400 Capped Materials

High_Beta

S&P SmallCap 600 Capped Materials

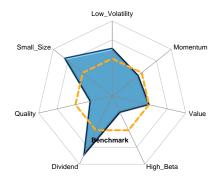


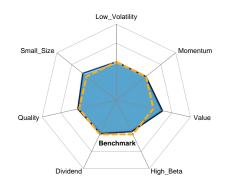


[&]quot;Financials & Real Estate SmallCap Capped Sector combines constitutents of the GICS Financials and Real Estate sectors. Source: S&P Dow Jones Indices LLC and/or its affiliates. Data as of December 31, 2024.

Real Estate Select Sector

Communication Services Select Sector



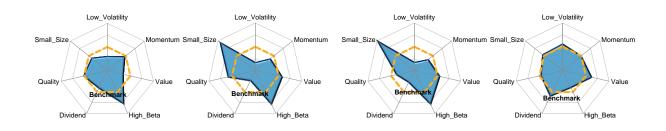


Technology Select Sector

S&P MidCap 400 Capped Info Tech

S&P SmallCap 600 Capped Info Tech

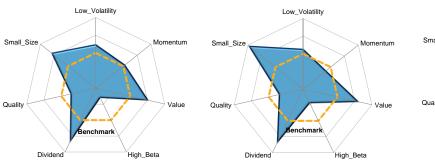
S&P 500 Ex-Info Tech

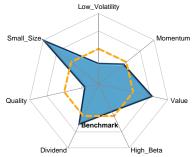


Utilities Select Sector

S&P MidCap 400 Capped Utilities & Comm Services **

S&P SmallCap 600 Capped Utilities & Comm Services **





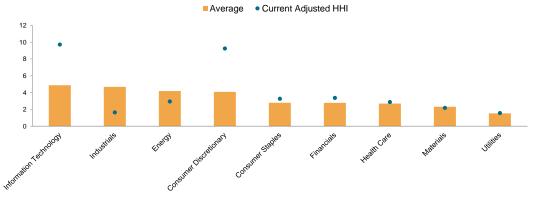
SELECTED KEY METRICS - SELECT SECTOR INDICES									
METRICS	DIV YIELD	P/E	P/B	P/S	BETA	CONSTITUENT VOLATILITY	RSI - 30 DAY	VALUE SCORE	GROWTH SCORE
Communication Services	1.1%	39.5	3.3	2.1	0.92	28.8%	51.9	0.13	0.00
Consumer Discretionary	0.8%	29.1	10.1	2.5	1.23	33.5%	60.8	0.29	-0.14
Consumer Staples	2.6%	24.2	5.0	1.3	0.25	21.0%	48.0	-0.06	0.03
Energy	3.5%	14.1	2.2	1.2	0.43	22.8%	26.5	0.16	0.25
Financials	1.6%	17.9	2.5	2.6	0.73	21.9%	46.5	0.33	0.16
Health Care	1.6%	37.2	4.8	1.7	0.45	25.0%	42.2	-0.05	-0.06
Industrials	1.4%	28.3	6.4	2.5	0.88	25.4%	39.0	0.17	-0.12
Materials	1.7%	30.7	2.8	2.1	0.67	24.7%	30.2	-0.08	0.03
Real Estate	3.1%	40.3	3.0	6.6	0.56	22.9%	39.8	0.02	-0.09
Technology	0.7%	44.3	10.0	7.0	1.50	34.5%	54.1	0.24	-0.25
Utilities	2.8%	20.6	2.3	2.7	0.33	23.5%	38.5	0.06	0.08

SELECTED KEY METRICS - S&P MIDCAP 400 CAPPED SECTORS									
METRICS	DIV YIELD	P/E	P/B	P/S	BETA	CONSTITUENT VOLATILITY	RSI - 30 DAY	VALUE SCORE	GROWTH SCORE
Consumer Discretionary	1.1%	19.1	3.8	1.0	1.10	37.0%	52.6	0.20	0.02
Consumer Staples	0.5%	26.3	3.7	0.7	0.72	30.5%	46.5	0.17	0.11
Energy	3.1%	13.2	1.3	1.3	0.76	29.9%	46.2	0.02	0.30
Financials	2.5%	17.8	1.8	1.8	0.95	28.5%	43.0	0.12	0.07
Health Care	0.1%	60.8	3.2	2.7	0.73	36.2%	51.9	0.15	-0.16
Industrials	0.8%	24.6	4.0	1.4	1.11	30.8%	38.2	0.22	-0.08
Information Technology	0.2%	46.5	3.9	1.6	1.54	40.9%	56.8	0.11	-0.13
Materials	1.2%	26.0	2.2	1.1	0.98	30.2%	30.6	-0.03	0.10
Utilities & Comm Services**	2.8%	25.5	1.9	2.1	0.46	26.0%	42.5	-0.12	0.05

SELECTED KEY METRICS - S&P SMALLCAP 600 CAPPED SECTORS									
METRICS	DIV YIELD	P/E	P/B	P/S	BETA	CONSTITUENT VOLATILITY	RSI - 30 DAY	VALUE SCORE	GROWTH SCORE
Consumer Discretionary	1.3%	24.1	2.3	0.7	1.10	42.0%	52.8	0.11	0.12
Consumer Staples	1.9%	28.0	1.9	0.7	0.55	31.7%	50.3	0.09	0.18
Energy	2.4%	14.0	1.4	1.0	0.94	38.6%	42.3	0.39	0.19
Financials & Real Estate*	3.1%	27.1	1.4	1.9	1.00	32.2%	41.3	0.07	-0.01
Health Care	0.4%	n/m	3.0	2.0	1.07	45.9%	49.3	0.31	-0.27
Industrials	0.9%	34.5	2.2	1.1	1.22	35.5%	41.0	0.30	-0.06
Information Technology	0.3%	n/m	3.0	1.7	1.50	42.1%	53.2	0.10	-0.24
Materials	1.2%	23.9	2.3	1.0	1.16	36.4%	31.1	0.14	-0.06
Utilities & Comm Services**	1.7%	170.3	1.8	1.2	0.83	35.5%	37.0	0.11	-0.04

SELECTED KEY METRICS - S&P 500 EX SECTORS									
METRICS	DIV YIELD	P/E	P/B	P/S	BETA	CONSTITUENT VOLATILITY	RSI - 30 DAY	VALUE SCORE	GROWTH SCORE
Ex-Energy	1.2%	30.5	5.7	3.2	1.05	28.7%	52.4	0.21	-0.12
Ex-Financials & Real Estate	1.1%	32.6	6.7	3.1	1.09	29.8%	52.5	0.19	-0.15
Ex-Health Care	1.2%	28.8	5.5	3.4	1.09	28.9%	52.3	0.24	-0.11
Ex-Information Technology	1.5%	25.3	4.2	2.4	0.79	25.9%	47.3	0.17	-0.02

Current and Average Adjusted HHI for S&P 500 GICS Sectors***



Consumer Discretionary had the highest relative strength among large-cap sectors.

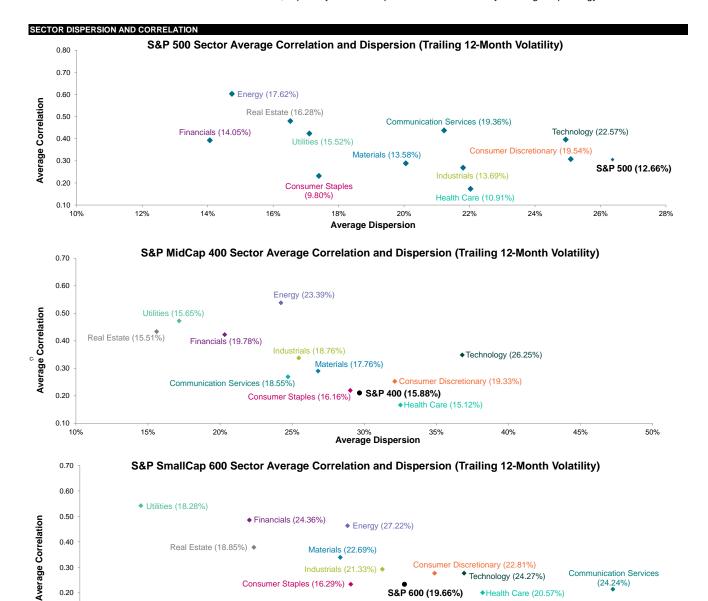
For details on definitions of fundamental metrics, please refer to the disclosure section. Value and Growth scores are rescored for the S&P Total Market Index universe annually every December. Average HHI calculated from Jan 1990 through current month.

^{*}Financials & Real Estate SmallCap Capped Sector combines constitutents of the GICS Financials and Real Estate sectors.

^{**}Utilities MidCap and SmallCap Capped Sectors include constituents of the GICS Utilities and Communication Services sectors.

COMMENTARY

- · Dispersion decreased within most sectors in 2024, particularly for small-cap Health Care and Financials.
- · Correlations decreased across most sectors in 2024, especially for small-cap Consumer Discretionary and large-cap Energy.



NOTES

0.10 | 10%

15%

The charts above decomposed volatility into its two main components: dispersion and correlation. The data points are each sector's average monthly value over the trailing 12 months. Trailing annualized volatility is included in parentheses. Index dispersions shown based on stock-level index-weighted dispersion over the calendar month. Index correlation based on single stock daily total returns during each calendar month. See "implications of Sector Dispersion" for more information.

30%

Average Dispersion

35%

40%

45%

50%

· See "At the Intersection of Diversification, Volatility and Correlation" for details on the relationship between correlation and dispersion

25%

20%

• See "Dispersion: Measuring Market Opportunity" for the definition of index dispersion and more information on the uses of dispersion.

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each analytical process

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Performance Disclosure

S&P 500 Information Technology was launched on June 28th, 1996. S&P 500 Industrials was launched on June 28th, 1996. S&P 500 En ergy was launched on June 28th, 1996. S&P 500 Consumer Discretionary was launched on June 28th, 1996. S&P 500 Consumer Staples was launched on June 28th, 1996. S&P 500 Health Care was launched on June 28th, 1996. S&P 500 Materials was launched on June 28th, 1996. S&P 500 Utilities was launched on the launch bate of tellect leavent was launched on the le

Please refer to the methodology for the Index for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations. Back-tested performance is for use with institutions only; not for use with retail investors.

S&P Dow Jones Indices defines various dates to assist our clients in providing transparency. The First Value Date is the first day for which there is a calculated value (either live or back-tested) for a given index. The Base Date is the date at which the index is set to a fixed value for calculation purposes. The Launch Date designates the date when the values of an index are first considered live: index values provided for any date or time period prior to the index's Launch Date are considered back-tested. S&P Dow Jones Indices defines the Launch Date as the date by which the values of an index are known to have been released to the public, for example via the company's public website or its data feed to external parties. For Dow Jones-branded indices introduced prior to May 31, 2013, the Launch Date (which prior to May 31, 2013, was termed "Date of introduction") is set at a date upon which no further changes were permitted to be made to the index methodology, but that may have been prior to the Index's public release date

Typically, when S&P DJI creates back-tested index data, S&P DJI uses actual historical constituent-level data (e.g., historical price, market capitalization, and corporate action data) in its calculations. As ESG investing is still in early stages of development, certain datapoints used to calculate S&P DJI's ESG indices may not be available for the entire desired period of back-tested history. The same data availability issue could be true for other indices as well. In cases when actual data is not available for all relevant historical periods, S&P DJI may employ a process of using "Backward Data Assumption" (or pulling back) of ESG data for the calculation of back-tested historical periodramace. "Backward Data Assumption" is a process that applies the earliest actual live data point available for an index constituent company to all prior historical instances in the index performance. For example, Backward Data Assumption inherently assumes that companies currently not involved in a specific business activity were involved historically not involved in a specific business activity were involved historically too. The Backward Data Assumption allows the hypothetical back-test to be extended over more historical years than would be feasible using only actual data. For more information or "Backward Data Assumption" please refer to the FAQ. The methodology and factsheets of any index that employs backward assumption in the back-tested history will explicitly state so. The methodology will include an Appendix with a table setting forth the specific data points and relevant time period for which backward projected data was used.

Index returns shown do not represent the results of actual trading of investable assets/securities. S&P Dow Jones Indices maintains the index and calculates the index levels and performance shown or discussed but does not manage actual assets. Index returns do not reflect payment of any sales charges or fees an investor may pay to purchase the securities underlying the Index or investment funds that are intended to track the performance of the Index. The imposition of these fees and charges would cause actual and back-tested performance of the securities/fund to be lower than the Index performance shown. As a simple example, if an index returned 10% on a US \$100,000 investment for a 12-month period (or US \$10,000) and an actual asset-based fee of 1.5% was imposed at the end of the period on the investment plus accrued interest (or US \$1,650), the net return would be 8.35% (or US \$8,350) for the year. Over a three-year period, an annual 1.5% fee taken at year end with an assumed 10% return per year would result in a cumulative gross return of 33.10%, a total fee of US \$5,375, and a cumulative net return of 27.2% (or US \$27,200).

Notes On Additional Index Statistics

STATISTIC	NOTES
Price/Earnings (P/E)	Price per share as of observation date divided by earnings per share, calculated by adding the last twelve calendar months' quarterly reported earnings per share.
Price/Book (P/B)	Price per share as of observation date divided by latest annual reported book value per share.
Price/Sales (P/S)	Price per share as of observation date divided by sales per share, calculated by adding twelve calendar months' quarterly reported sales per share.
RSI - 30 Day	RSI is an indicator of the speed and change of price movements and oscillates between zero and 100. RSI is considered overbought when above 70 and oversold when below 30. RS is the average gain divided by average loss over the past 30 days. Then RSI is equal to 100 minus 100 divided by 1+RS.