

S&P Dow Jones Indices

A Division of S&P Global

INDEX INVESTMENT STRATEGY: Daily Index Dashboard

October 18, 2019

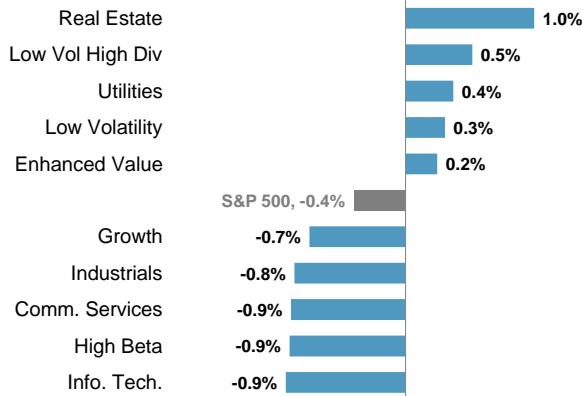
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E-mail chris.bennett@spglobal.com to receive daily commentary

HEADLINE INDICES

INDEX	Daily	MTD	YTD	12M
U.S. Equity				
S&P 500®	-0.39%	0.41%	21.05%	10.07%
S&P MidCap 400®	-0.10%	0.12%	18.01%	4.57%
S&P SmallCap 600®	-0.53%	0.34%	13.85%	-0.70%
S&P Composite 1500®	-0.37%	0.39%	20.65%	9.40%
S&P Total Market Index (TMI)	-0.40%	0.38%	20.51%	9.04%
Dow Jones Industrial Average®	-0.92%	-0.44%	16.99%	8.08%

Daily Leaders & Laggards: S&P 500 Sectors & Factors



Global Equity (USD)	Daily	MTD	YTD	12M
S&P Global BMI	-0.29%	1.04%	17.35%	8.21%
S&P Developed BMI	-0.29%	0.87%	18.17%	7.92%
S&P Emerging BMI	-0.27%	2.40%	10.47%	11.18%
S&P Frontier BMI ²	0.03%	-0.08%	8.95%	7.33%
S&P Developed Ex-US BMI	-0.13%	1.60%	14.79%	6.25%
S&P Global 1200	-0.24%	0.97%	18.87%	9.43%
S&P 500	-0.39%	0.41%	21.05%	10.07%
S&P/TOPIX 150	0.03%	1.50%	14.93%	3.06%
S&P Latin America 40	0.58%	1.83%	6.40%	0.60%
S&P Europe 350®	-0.09%	1.94%	16.48%	8.98%
S&P/ASX All Australian 50	0.19%	0.68%	19.10%	14.75%
S&P Asia 50	-0.46%	2.68%	10.56%	10.43%
S&P/TSX 60	-0.23%	-0.91%	21.66%	10.22%

Global Equity (Local Currency)	Daily	MTD	YTD	12M
S&P Merval (ARS)	-0.08%	9.98%	5.53%	12.68%
S&P South Africa Composite (ZAR)	-0.38%	4.32%	5.61%	6.97%
S&P/HKEX LargeCap (HKD)	-0.39%	2.59%	6.15%	8.52%
S&P/TOPIX 150 (JPY)	-0.14%	2.21%	12.73%	-0.54%
S&P Germany BMI (EUR)	-0.20%	1.88%	18.28%	7.01%
S&P China 500 (CNY)	-1.29%	1.78%	22.34%	21.22%
S&P BSE SENSEX (INR)	0.63%	1.65%	10.07%	14.42%
S&P/NZX 50 Portfolio (NZD)	-0.53%	1.08%	25.39%	24.04%
S&P Korea BMI (KRW)	-0.94%	0.56%	4.00%	-0.64%
S&P/BMV IPC (MXN)	-0.69%	0.42%	6.24%	-5.27%
S&P Europe 350 (EUR)	-0.32%	-0.34%	19.61%	12.29%
S&P/ASX 200 (AUD)	-0.52%	-0.57%	21.87%	16.80%
S&P France BMI (EUR)	-0.61%	-0.65%	22.06%	12.51%
S&P/BVL LIMA 25 (PEN)	0.23%	-0.90%	-6.82%	-3.87%
S&P Switzerland BMI (CHF)	-0.48%	-1.44%	22.80%	16.66%
S&P/TSX Composite (CAD)	-0.30%	-1.63%	17.17%	9.78%
S&P United Kingdom (GBP)	-0.45%	-3.19%	10.63%	6.70%

Case-Shiller (as of Jul 2019)

	1M	6M	12M
S&P CoreLogic Case-Shiller US National	0.39%	3.54%	3.18%

INDEX	Yield	Daily	MTD	YTD	12M
U.S. Fixed Income					
S&P U.S. Aggregate Bond	2.29%	0.05%	-0.12%	7.15%	9.31%
S&P U.S. Treasury Current 2-Year	1.57%	0.05%	0.18%	3.06%	4.35%
S&P U.S. Treasury Current 10-Year	1.75%	0.10%	-0.61%	10.12%	15.47%
S&P 500/MarketAxess IG Corp Bond	2.86%	0.15%	-0.10%	13.60%	14.69%
S&P 500 High Yield Corporate Bond	3.77%	0.04%	0.36%	14.01%	12.34%
S&P/LSTA U.S. Leveraged Loan 100 ²	6.17%	0.01%	-0.39%	7.79%	2.85%

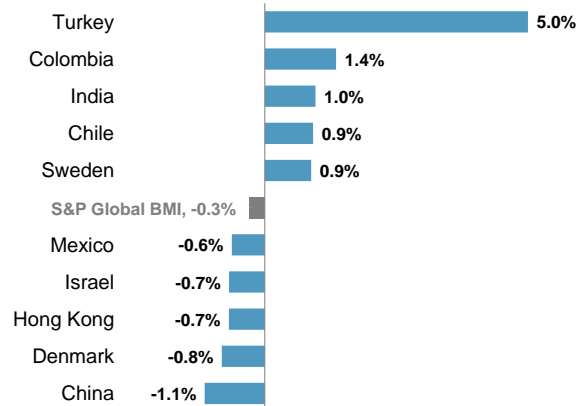
Global Fixed Income

S&P Global Dev. Sov. Bond (USD)	0.66%	0.05%	0.02%	5.20%	7.90%
S&P Japan Sovereign Bond (JPY)	-0.10%	-0.12%	-0.47%	2.09%	3.55%
S&P/ASX Australian Gov. Bond (AUD)	1.01%	-0.01%	-0.48%	9.86%	13.20%
S&P Canada Sovereign Bond (CAD)	1.63%	0.11%	-0.70%	3.99%	7.00%
S&P Germany Sovereign Bond (EUR)	-0.47%	-0.15%	-1.44%	4.13%	5.28%
S&P U.K. Gilt (GBP)	0.85%	-0.28%	-2.70%	8.34%	10.59%

Currencies

Dow Jones FXCM Dollar Index		-0.27%	-1.44%	0.40%	0.46%
GBP/USD (1.29)	0.46%	4.69%	1.29%	-1.33%	
EUR/USD (1.1139)	0.21%	2.18%	-2.55%	-3.05%	
USD/JPY (108.52)	-0.12%	0.41%	-1.09%	-3.54%	
USD/CAD (1.3132)	0.05%	0.82%	4.00%	-0.79%	
AUD/USD (0.6849)	0.45%	1.56%	-2.71%	-3.97%	

Daily Leaders & Laggards: S&P Global BMI (USD)



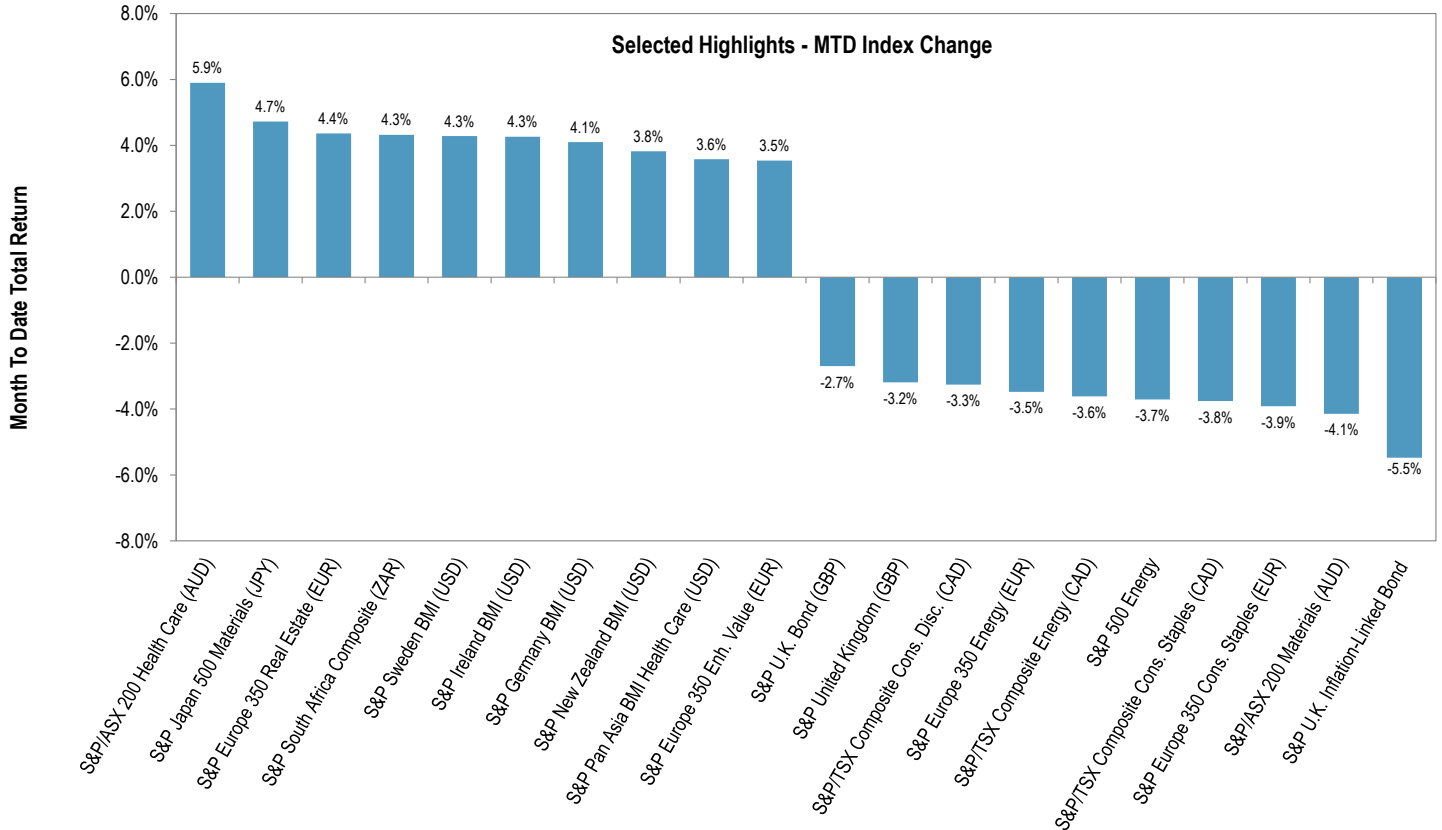
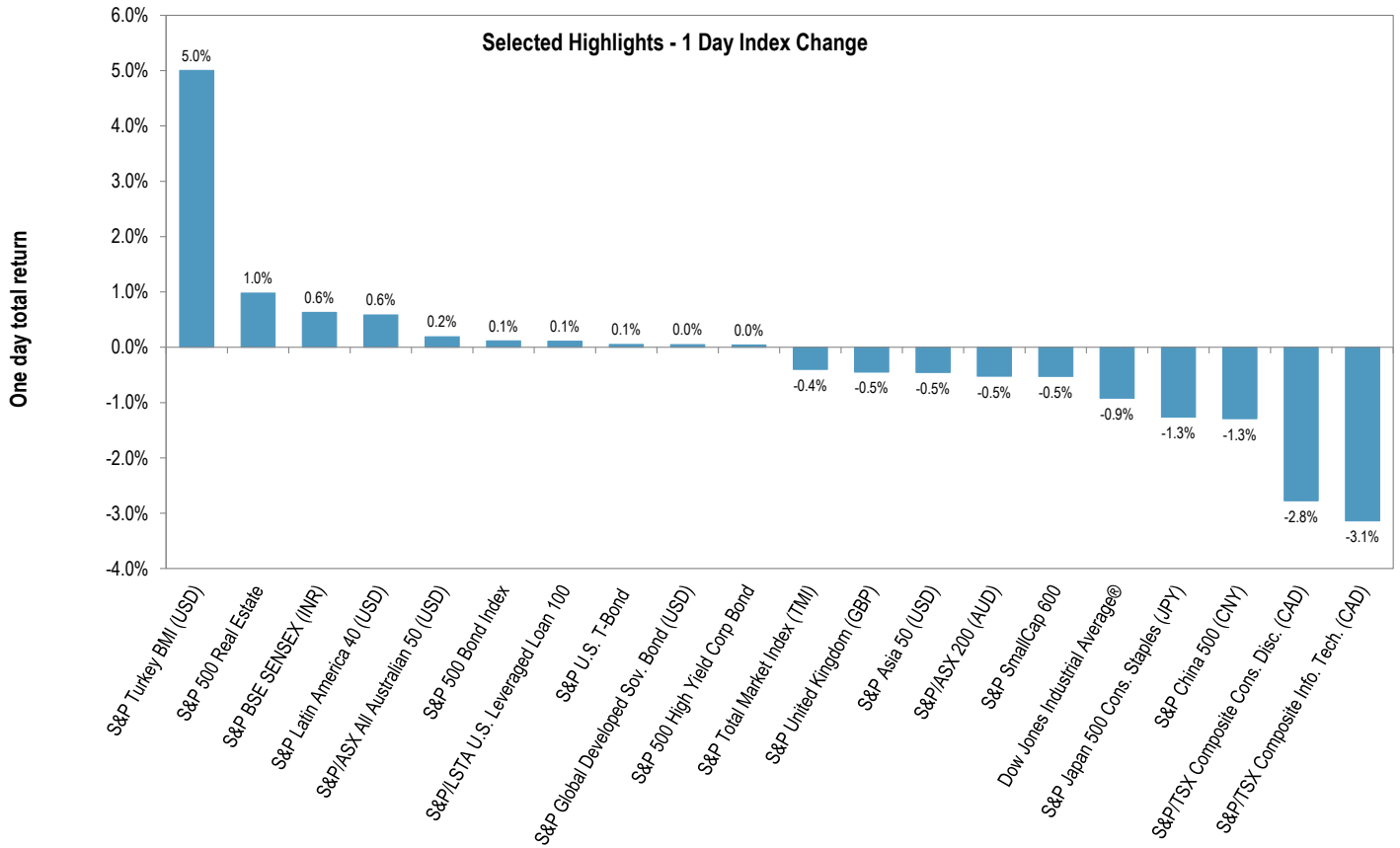
Commodities	Daily	MTD	YTD	12M
Dow Jones Commodity Index	0.12%	1.42%	6.14%	-3.68%
S&P GSCI	-0.09%	0.98%	9.67%	-13.30%
Agriculture	0.25%	2.69%	-3.29%	-7.55%
Precious Metals	-0.27%	1.71%	15.60%	20.60%
Gold	-0.28%	1.53%	15.95%	20.77%
Copper	1.19%	1.45%	-1.60%	-4.16%
Industrial Metals	0.70%	1.13%	1.88%	-4.24%
Energy	-0.25%	0.56%	16.93%	-18.76%
Livestock	-0.61%	-0.12%	-6.46%	-2.91%
Crude Oil	-0.29%	-0.30%	17.79%	-22.30%

Volatility

Cboe Volatility Index/ VIX® (14.25)	3.34%	-12.25%	-43.94%	-28.96%
S&P/ASX 200 VIX (13.45)	0.93%	2.16%	-25.00%	-17.20%
S&P/JPX JGB VIX (2.68)	1.13%	5.10%	60.48%	107.8%
S&P 500 VIX Short-Term Futures	0.61%	-8.84%	-54.33%	-37.55%
S&P 500 VIX Mid-Term Futures	1.27%	-1.15%	-12.13%	1.01%
S&P 500 1-Month Realized Volatility (13.72)	0.50%	61.30%	-52.14%	-23.12%
S&P/BMV IPC VIX (15.6)	1.07%	-8.86%	-26.17%	-4.01%
S&P/TSX 60 VIX (12.32)	0.82%	-1.60%	-50.68%	-27.95%

Source: S&P Dow Jones Indices LLC and/or its affiliates. Index performance based on total return. (1) Indicates delayed data. (2) Indicates Sunday trading. Returns are in USD unless otherwise stated. Numbers in brackets are the most recent closing price level for the corresponding index. 12M returns are calculated with reference to latest index level available exactly one calendar year prior to the calculation date. See disclaimer for further information

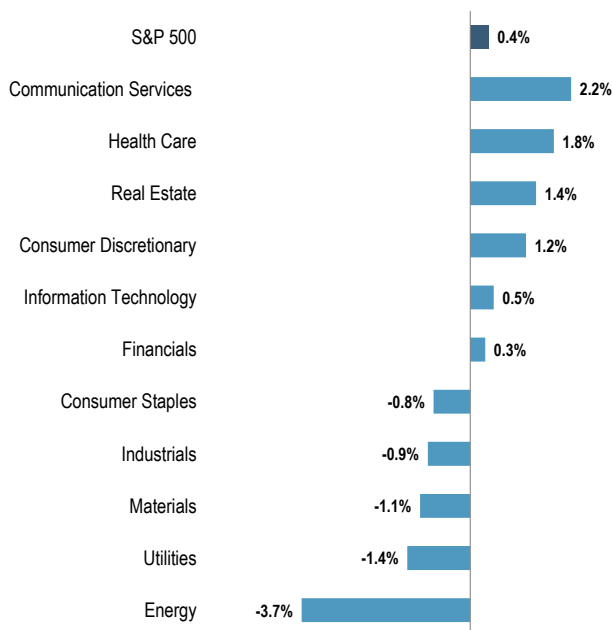
MOVERS AND SHAKERS



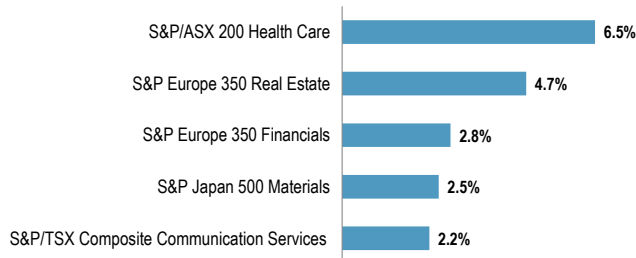
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EQUITY SECTORS

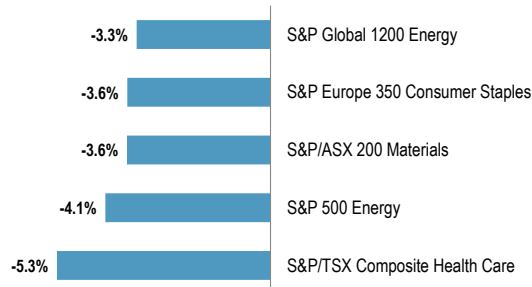
S&P 500 Sectors - Total Return MTD



Top 5 Outperforming Sectors - Excess Return MTD



Top 5 Underperforming Sectors - Excess Return MTD

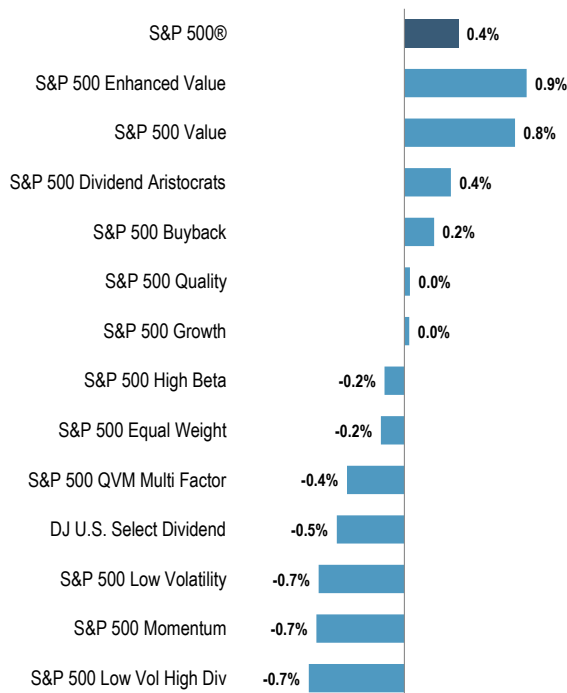


INDEX	Daily	MTD	YTD	12M
S&P 500	-0.39%	0.41%	21.05%	10.07%
Communication Services	-0.87%	2.22%	24.44%	13.07%
Health Care	-0.34%	1.84%	7.58%	1.10%
Real Estate	0.98%	1.45%	31.59%	31.05%
Consumer Discretionary	-0.32%	1.23%	23.96%	13.53%
Information Technology	-0.91%	0.52%	32.05%	17.39%
Financials	0.23%	0.33%	20.00%	8.21%
Consumer Staples	0.19%	-0.81%	22.28%	16.84%
Industrials	-0.85%	-0.93%	21.44%	7.15%
Materials	-0.10%	-1.10%	15.82%	10.01%
Utilities	0.36%	-1.39%	23.66%	22.85%
Energy	-0.54%	-3.71%	2.07%	-18.38%
S&P Europe 350 (EUR)	-0.32%	-0.34%	19.61%	12.29%
Real Estate	0.12%	4.36%	18.42%	7.78%
Financials	0.08%	2.43%	16.59%	7.35%
Consumer Discretionary	-0.83%	1.76%	25.62%	16.50%
Communication Services	0.33%	1.62%	8.72%	7.82%
Information Technology	-0.81%	1.58%	26.38%	13.62%
Materials	-0.10%	0.05%	16.89%	7.45%
Industrials	0.05%	-0.01%	24.37%	15.75%
Utilities	0.21%	-0.77%	24.99%	30.31%
Health Care	-0.60%	-2.11%	21.65%	17.11%
Energy	-0.37%	-3.48%	5.35%	-5.40%
Consumer Staples	-0.90%	-3.92%	22.65%	18.34%
S&P Japan 500 (JPY)	-0.13%	2.25%	11.52%	-1.70%
Materials	0.82%	4.72%	8.46%	-5.21%
Information Technology	-0.15%	3.43%	29.98%	12.82%
Consumer Discretionary	-0.22%	2.57%	11.85%	2.14%
Industrials	0.17%	2.55%	12.10%	-0.84%
Utilities	0.46%	2.15%	-8.56%	-11.59%
Health Care	-0.28%	2.15%	13.68%	-3.40%
Consumer Staples	-1.26%	1.79%	0.72%	-2.72%
Real Estate	-0.04%	0.79%	10.96%	5.60%
Communication Services	-0.62%	0.79%	17.29%	-2.88%
Energy	0.82%	0.48%	-6.45%	-35.40%
Financials	0.12%	0.32%	4.79%	-13.63%

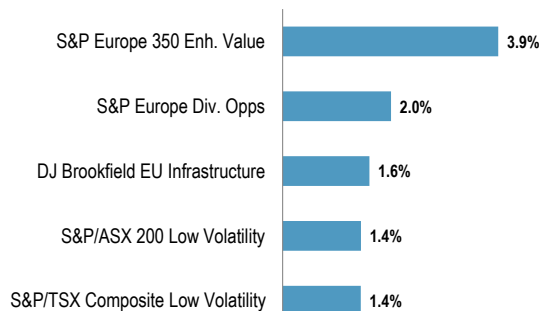
INDEX	Daily	MTD	YTD	12M
S&P/ASX 200 (AUD)	-0.52%	-0.57%	21.87%	16.80%
Health Care	-0.58%	5.90%	33.27%	30.10%
Industrials	-0.88%	1.45%	24.00%	22.22%
Consumer Discretionary	-0.49%	0.81%	29.45%	11.70%
Communication Services	-0.44%	0.58%	28.34%	13.35%
Real Estate	-0.55%	0.48%	23.35%	20.32%
Energy	-0.79%	-0.52%	14.98%	-5.15%
Consumer Staples	-1.17%	-0.61%	23.52%	19.57%
Utilities	-0.76%	-0.75%	13.56%	12.32%
Information Technology	-0.72%	-1.37%	29.44%	19.41%
Financials	-0.40%	-1.55%	19.35%	16.84%
Materials	-0.21%	-4.14%	16.87%	14.37%
S&P/TSX Composite (CAD)	-0.30%	-1.63%	17.17%	9.78%
Communication Services	-0.06%	0.60%	12.60%	15.49%
Materials	0.19%	-0.23%	14.60%	14.47%
Financials	0.19%	-0.69%	19.37%	11.49%
Real Estate	-0.29%	-0.79%	24.72%	21.12%
Utilities	0.23%	-1.51%	32.78%	33.07%
Industrials	-0.10%	-1.92%	17.08%	8.24%
Information Technology	-3.14%	-2.12%	45.66%	43.84%
Consumer Discretionary	-2.78%	-3.26%	14.21%	5.70%
Energy	-0.20%	-3.61%	9.54%	-4.82%
Consumer Staples	-0.37%	-3.76%	14.53%	25.32%
Health Care	-2.60%	-6.95%	-11.94%	-44.66%
S&P Global 1200	-0.24%	0.97%	18.87%	9.43%
Communication Services	-0.56%	2.21%	19.60%	11.05%
Consumer Discretionary	-0.31%	2.02%	22.33%	13.08%
Real Estate	0.66%	1.91%	24.89%	23.70%
Health Care	-0.29%	1.64%	10.72%	4.07%
Financials	0.23%	1.57%	16.51%	7.14%
Information Technology	-0.86%	1.17%	30.73%	16.86%
Materials	0.20%	0.66%	13.25%	5.87%
Industrials	-0.25%	0.52%	19.82%	8.16%
Utilities	0.42%	-0.40%	21.16%	22.38%
Consumer Staples	-0.16%	-0.91%	19.53%	14.89%
Energy	-0.24%	-2.36%	4.12%	-13.15%

Source: S&P Dow Jones Indices LLC and/or its affiliates. Index performance based on total return. (1) Indicates delayed data. (2) Indicates Sunday trading. Returns are in USD unless otherwise stated. Numbers in brackets are the most recent closing price level for the corresponding index. 12M returns are calculated with reference to latest index level available exactly one calendar year prior to the calculation date. See disclaimer for further information

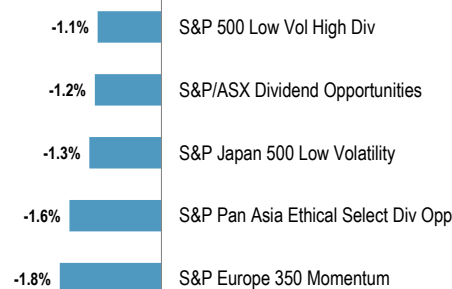
U.S. Equity Factors - Total Return MTD



Top 5 Outperformers - Excess Return MTD



Top 5 Underperformers - Excess Return MTD

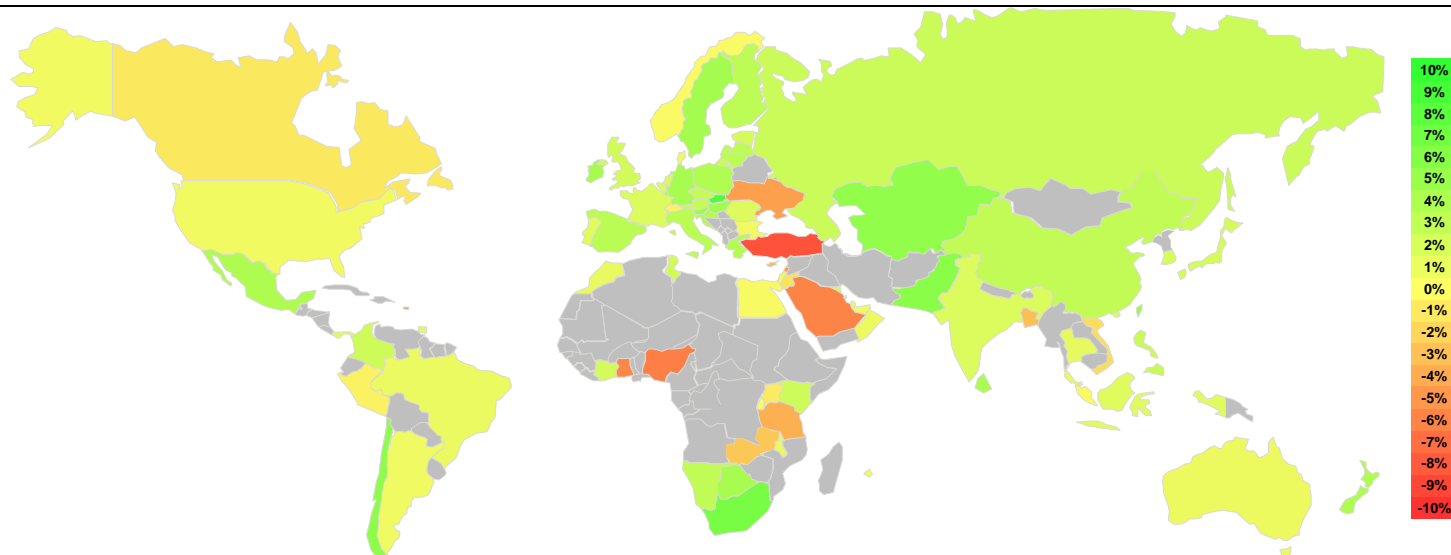


INDEX	Daily	MTD	YTD	12M
United States				
S&P 500 Enhanced Value	0.24%	0.93%	17.30%	5.94%
S&P 500 Value	0.00%	0.84%	21.02%	10.25%
S&P 500 Dividend Aristocrats	0.21%	0.35%	20.71%	15.95%
S&P 500 Buyback	0.07%	0.23%	20.41%	9.37%
S&P 500 Quality	-0.68%	0.04%	22.18%	10.66%
S&P 500 Growth	-0.73%	0.04%	21.10%	9.98%
S&P 500 High Beta	-0.88%	-0.15%	18.31%	2.18%
S&P 500 Equal Weight	-0.09%	-0.18%	19.89%	9.06%
S&P 500 QVM Multi Factor	-0.35%	-0.44%	16.34%	4.90%
DJ U.S. Select Dividend	0.33%	-0.51%	17.10%	8.72%
S&P 500 Low Volatility	0.30%	-0.65%	25.64%	22.46%
S&P 500 Momentum	-0.14%	-0.67%	20.61%	8.57%
S&P 500 Low Vol High Div	0.51%	-0.73%	14.68%	9.27%
Europe (EUR)				
S&P Europe 350 Enh. Value	-0.67%	3.54%	13.95%	2.80%
S&P Europe Div. Opps	0.02%	1.61%	19.18%	12.12%
DJ Brookfield EU Infrastructure	-0.13%	1.42%	27.86%	23.92%
S&P Europe 350 Equal Weight	-0.25%	0.95%	19.39%	10.15%
S&P D.A.E. Europe	-0.37%	0.41%	12.77%	14.18%
S&P Euro HY Div. Aristocrats	-0.12%	-0.08%	17.31%	12.14%
S&P Europe 350 Buyback	-0.35%	-0.66%	19.28%	9.90%
S&P Europe 350 RC 15%	-0.33%	-0.77%	17.11%	9.40%
S&P Europe 350 Low Volatility	-0.17%	-0.87%	20.90%	15.44%
S&P Europe 350 Quality	-0.55%	-1.20%	23.42%	17.24%
S&P Europe 350 Momentum	-0.40%	-2.15%	24.57%	13.97%
Canada (CAD)				
S&P/TSX Composite Low Volatility	-0.03%	-0.22%	21.38%	19.32%
Dow Jones Canada Select Value	-0.02%	-1.40%	14.36%	6.57%
S&P/TSX Composite High Dividend	0.00%	-1.50%	19.13%	11.76%
S&P/TSX Canadian Dividend Aristocrats	-0.13%	-1.59%	18.84%	11.82%
S&P/TSX Capped Composite	-0.30%	-1.63%	17.17%	9.78%
Dow Jones Canada Select Growth	-0.63%	-1.70%	22.14%	17.18%
S&P/TSX Composite Momentum	-1.14%	-1.82%	21.47%	7.31%
S&P/TSX Composite Enhanced Value	-0.20%	-2.07%	8.89%	4.27%
S&P/TSX Composite Equal Weight	-0.46%	-2.12%	12.66%	3.15%
S&P/TSX 60 Equal Weight	-0.73%	-2.73%	12.14%	7.22%

INDEX	Daily	MTD	YTD	12M
Australia (AUD)				
S&P/ASX 200 Low Volatility	-0.58%	0.84%	24.64%	24.74%
S&P/ASX 200 Growth	-0.47%	-0.01%	23.52%	18.78%
S&P/ASX 100 Equal Weight	-0.50%	-0.09%	23.06%	14.36%
S&P/ASX 200 Enhanced Value	-0.70%	-0.15%	19.55%	11.39%
S&P/ASX 200 Momentum	-0.39%	-0.39%	23.50%	13.69%
S&P/ASX 200 Quality	-0.31%	-0.48%	17.83%	8.12%
S&P GIVI Australia	-0.60%	-0.99%	21.22%	18.05%
S&P/ASX 200 Value	-0.58%	-1.15%	20.17%	14.75%
S&P/ASX 300 Shareholder Yield	-0.87%	-1.55%	16.91%	11.76%
S&P/ASX Dividend Opportunities	-0.42%	-2.01%	21.61%	12.80%
Japan (JPY)				
S&P Quality Japan LMC	-0.08%	3.14%	17.12%	3.31%
S&P Japan 500 Equal Weight	-0.03%	2.54%	9.36%	-3.43%
S&P/JPX Dividend Aristocrats	-0.11%	2.36%	5.12%	-8.60%
S&P Intrinsic Value Japan	-0.07%	2.25%	9.30%	-4.08%
S&P Enh. Value Japan LMC	0.12%	2.16%	3.16%	-11.31%
S&P GIVI® Japan	-0.25%	1.75%	6.63%	-4.19%
S&P Low Beta Japan	-0.33%	1.74%	8.80%	-2.12%
S&P Momentum Japan LMC	-0.22%	1.44%	9.54%	-5.03%
S&P Japan 500 Low Volatility	-0.29%	0.97%	4.40%	-2.54%
Asia				
S&P Pan Asia Dividend Aristocrats®	-0.18%	3.02%	14.44%	12.50%
S&P Pan Asia Quality LargeMidCap	0.00%	2.65%	16.15%	11.14%
S&P Pan Asia Growth	-0.32%	2.18%	14.64%	10.20%
S&P Pan Asia Value	-0.12%	1.84%	7.02%	2.17%
S&P Pan Asia Intrinsic Value Weighted	-0.15%	1.83%	8.62%	3.07%
S&P Pan Asia Low Beta	-0.33%	1.80%	10.00%	6.04%
S&P Pan Asia GIVI	-0.29%	1.55%	6.94%	2.62%
S&P Pan Asia Enhanced Value LMC	-0.25%	1.47%	1.12%	-2.45%
S&P Pan Asia Low Volatility	-0.17%	1.47%	14.21%	15.28%
S&P Pan Asia Momentum LargeMidCap	-0.08%	1.41%	11.75%	5.96%
S&P Pan Asia Ethical Select Div Opp	-0.39%	0.38%	7.75%	6.57%
Global				
S&P Global 1200 Low Vol High Div	0.25%	1.75%	17.23%	13.16%
S&P Global 1200 Div Stability Low Vol	0.19%	0.77%	17.04%	13.00%
S&P Global 1200 QVM Multi-Factor	-0.25%	0.34%	15.45%	5.31%

Source: S&P Dow Jones Indices LLC and/or its affiliates. Index performance based on total return. (1) Indicates delayed data. (2) Indicates Sunday trading. Returns are in USD unless otherwise stated. Numbers in brackets are the most recent closing price level for the corresponding index. 12M returns are calculated with reference to latest index level available exactly one calendar year prior to the calculation date. See disclaimer for further information

S&P GLOBAL BMI: MONTH-TO-DATE PERFORMANCE HEATMAP



INDEX	Daily	MTD	YTD	12M
S&P Developed BMI	-0.29%	0.87%	18.17%	7.92%
Sweden	0.88%	4.28%	15.04%	7.04%
Ireland	-0.45%	4.26%	18.09%	5.96%
Germany	0.01%	4.10%	15.26%	3.75%
Luxembourg	0.07%	4.03%	-11.08%	-28.36%
New Zealand	-0.09%	3.82%	22.59%	23.86%
Italy	-0.04%	3.14%	21.87%	16.08%
Spain	0.16%	3.14%	9.73%	5.61%
Finland	0.27%	3.04%	9.82%	1.83%
Austria	0.04%	2.69%	13.93%	-6.63%
United Kingdom	0.07%	2.00%	12.91%	5.20%
Japan	0.01%	1.83%	12.98%	2.09%
Korea	-0.48%	1.81%	-1.76%	-4.50%
Netherlands	-0.20%	1.79%	25.78%	18.30%
France	-0.40%	1.51%	18.94%	9.08%
Belgium	-0.21%	1.50%	25.82%	9.37%
Hong Kong	-0.68%	1.43%	2.56%	6.02%
Portugal	-0.36%	1.33%	10.63%	2.65%
Singapore	-0.61%	1.12%	10.41%	9.43%
Denmark	-0.82%	0.78%	13.40%	7.94%
Australia	-0.12%	0.72%	19.10%	12.67%
Israel	-0.68%	0.55%	12.66%	3.03%
United States	-0.40%	0.39%	20.54%	9.08%
Norway	-0.09%	0.07%	5.33%	-10.34%
Switzerland	-0.39%	-0.38%	22.70%	17.68%
Canada	-0.29%	-0.91%	21.12%	7.70%
S&P Emerging BMI	-0.27%	2.40%	10.47%	11.18%
South Africa	-0.56%	6.43%	4.58%	8.50%
Pakistan	0.17%	5.62%	-17.14%	-23.50%
Chile	0.92%	5.46%	-0.65%	-3.45%
Taiwan	0.24%	4.85%	21.96%	19.72%
Hungary	0.26%	4.44%	1.74%	7.76%
Mexico	-0.63%	3.73%	10.56%	-4.02%
Poland	-0.39%	3.72%	-4.43%	-1.84%
Greece	0.54%	3.55%	39.32%	29.10%
China	-1.14%	2.80%	9.97%	10.21%
Czech Republic	0.58%	2.65%	-0.31%	-4.28%
Philippines	-0.35%	2.51%	9.60%	17.28%
Russia	-0.14%	2.38%	34.11%	25.61%
Colombia	1.35%	2.17%	18.03%	3.16%
Kuwait	0.02%	2.06%	18.95%	20.92%
India	0.96%	1.52%	3.36%	13.87%
Indonesia	0.69%	1.29%	5.19%	19.43%
Thailand	0.03%	0.99%	17.22%	9.24%
Brazil	-0.12%	0.78%	13.94%	14.44%
Qatar	0.00%	0.73%	0.78%	3.49%

INDEX	Daily	MTD	YTD	12M
S&P Emerging BMI (Cont'd)				
United Arab Emirates	-0.04%	0.49%	5.38%	-0.31%
Egypt	-0.07%	0.16%	26.71%	22.87%
Malaysia	-0.31%	0.02%	-1.65%	-4.92%
Peru	0.44%	-0.41%	-1.59%	-1.54%
Saudi Arabia	0.00%	-5.88%	0.40%	2.87%
Turkey	5.00%	-8.41%	3.79%	2.87%
S&P Frontier BMI²	0.03%	-0.08%	8.95%	7.33%
Slovakia	-0.35%	8.53%	19.75%	16.93%
Kazakhstan	0.86%	5.18%	-15.83%	-19.17%
Slovenia	0.63%	4.79%	10.76%	10.22%
Botswana	1.08%	4.10%	-2.52%	-5.07%
Sri Lanka	0.51%	3.98%	-4.16%	-2.38%
Croatia	0.50%	3.59%	18.10%	16.68%
Latvia	0.35%	3.07%	36.24%	36.41%
Lithuania	0.38%	3.06%	15.21%	2.96%
Namibia	0.08%	2.85%	-3.26%	-2.44%
Kenya	0.56%	2.25%	13.05%	10.13%
Tunisia	0.16%	2.12%	3.00%	-4.68%
Estonia	0.29%	1.91%	4.28%	-2.88%
Cote D'Ivoire	0.79%	1.88%	-10.79%	-15.47%
Bahrain ²	0.17%	1.55%	32.60%	27.46%
Romania	-0.14%	1.41%	31.91%	11.77%
Trinidad And Tobago	0.79%	1.38%	8.46%	11.62%
Panama	0.55%	1.14%	15.58%	15.93%
Morocco	0.42%	0.88%	5.33%	6.53%
Oman ²	0.61%	0.71%	2.58%	1.11%
Mauritius	-0.31%	0.68%	-1.41%	-0.85%
Argentina	-1.56%	0.48%	17.92%	19.23%
Bulgaria	0.20%	0.47%	-6.78%	-8.76%
Jordan ²	-0.49%	-1.14%	-0.95%	0.16%
Vietnam	0.09%	-1.45%	9.22%	2.49%
Zambia	0.11%	-2.52%	-27.32%	-26.34%
Bangladesh ²	0.57%	-2.92%	-9.16%	-9.16%
Cyprus	-0.18%	-3.07%	-6.99%	-11.95%
Jamaica	0.85%	-4.35%	21.65%	38.39%
Lebanon	0.00%	-4.90%	-19.09%	-19.25%
Ghana	-0.64%	-5.74%	-21.76%	-33.90%
Nigeria	-0.18%	-6.17%	-18.75%	-22.78%
Additional Countries				
Palestine ²	0.58%	1.09%	1.50%	1.65%
Malawi	0.00%	0.75%	3.55%	8.96%
Rwanda	-0.73%	0.25%	-0.77%	-4.32%
Uganda	0.89%	-0.76%	-4.49%	-6.83%
Tanzania	-0.04%	-3.72%	-12.07%	-16.22%
Ukraine	1.44%	-4.49%	-18.28%	-24.28%

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S&P Dow Jones Indices

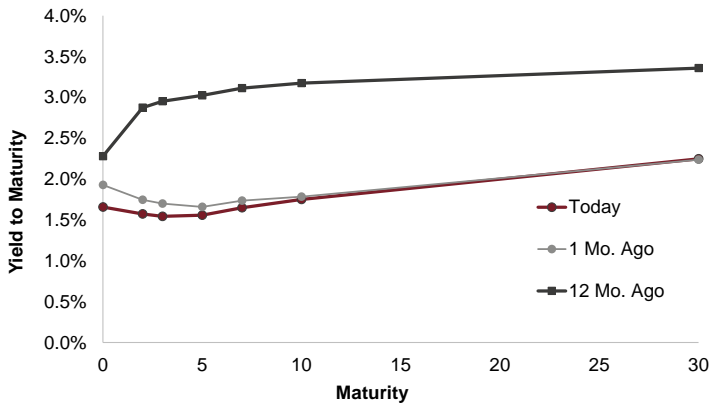
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INDEX INVESTMENT STRATEGY: Daily Index Dashboard

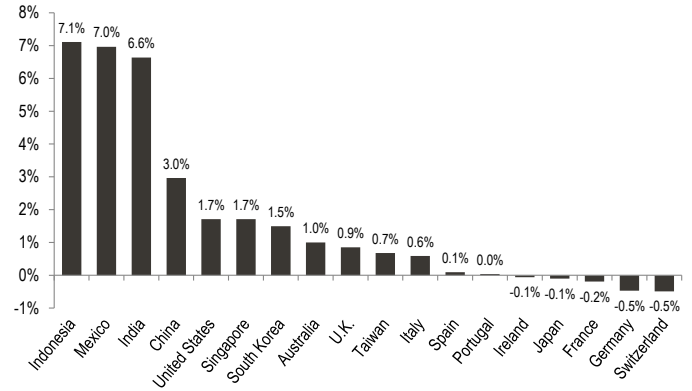
October 18, 2019

GLOBAL FIXED INCOME

U.S. Treasury Yield Curve



Yield to Worst - Selected S&P Sovereign Bond Indices



United States	Yield	Daily	MTD	YTD	12M
S&P U.S. Aggregate	2.3%	0.05%	-0.12%	7.15%	9.31%
S&P 500 Bond	2.9%	0.11%	-0.12%	12.30%	13.34%
S&P U.S. Treasury Bill	1.7%	0.01%	0.14%	2.00%	2.50%
S&P U.S. Treasury	1.7%	0.05%	-0.30%	6.63%	9.65%
S&P U.S. TIPS	0.4%	0.12%	-0.12%	7.32%	8.03%
S&P U.S. MBS	2.6%	0.00%	0.00%	3.79%	5.75%
S&P U.S. IG Corporate	2.8%	0.11%	-0.14%	11.81%	13.02%
S&P 500/MarketAxess IG Corp.	2.9%	0.15%	-0.10%	13.60%	14.69%
S&P U.S. HY Corporate	5.5%	0.02%	0.20%	11.82%	8.18%
S&P/LSTA U.S. Lev. Loan 100 ²	6.2%	0.01%	-0.39%	7.79%	2.85%
S&P National AMT-Free Muni	1.7%	-0.01%	0.00%	6.75%	9.21%
S&P U.S. Preferred Stock	6.4%	-0.11%	0.71%	15.85%	12.03%

S&P 500 Bond Sectors	Yield	Daily	MTD	YTD	12M
Financials	2.6%	0.12%	0.02%	10.90%	12.12%
Information Technology	2.6%	0.12%	0.02%	11.74%	13.07%
Consumer Discretionary	3.2%	0.11%	0.00%	12.44%	13.00%
Communication Services	3.3%	0.18%	0.00%	16.39%	17.60%
Real Estate	2.8%	0.18%	-0.01%	11.14%	12.76%
Health Care	2.9%	0.12%	-0.07%	12.45%	13.64%
Materials	3.3%	0.06%	-0.13%	13.16%	13.77%
Consumer Staples	2.8%	0.17%	-0.18%	11.91%	13.14%
Industrials	2.9%	0.07%	-0.34%	12.48%	13.01%
Utilities	3.0%	0.07%	-0.39%	12.70%	14.20%
Energy	3.3%	0.04%	-0.58%	11.96%	11.51%

Canada	Yield	Daily	MTD	YTD	12M
S&P Canada Aggregate	2.2%	0.16%	-0.79%	6.30%	8.73%
S&P Canada Sovereign	2.8%	0.13%	-0.69%	6.29%	7.57%
S&P Canada IG Corporate	2.2%	0.20%	-0.90%	7.70%	10.36%
S&P Canada Provincial & Municipal	1.6%	0.11%	-0.70%	3.99%	7.00%
S&P/TSX Preferred Share	5.3%	0.29%	0.28%	-0.11%	-9.48%

Australia & New Zealand	Yield	Daily	MTD	YTD	12M
S&P/ASX Australian Government 0+	1.0%	-0.01%	-0.45%	9.39%	12.58%
S&P/ASX Corporate 0+	1.8%	-0.01%	-0.08%	6.63%	7.90%
S&P/NZX NZ Government Bond	1.1%	-0.21%	-0.80%	7.18%	9.05%

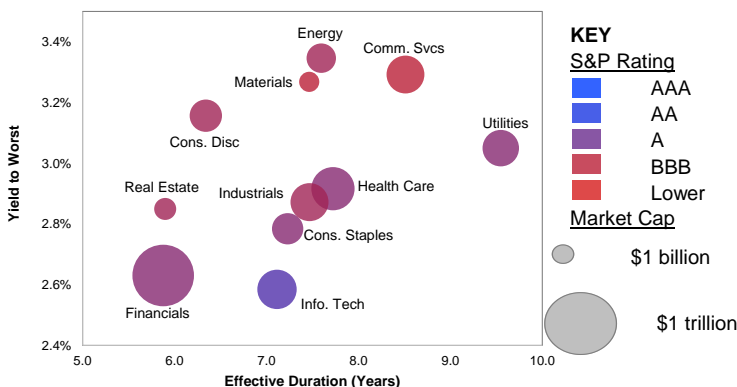
Europe	Yield	Daily	MTD	YTD	12M
S&P Eurozone Sovereign	0.0%	-0.18%	-1.14%	7.95%	10.24%
S&P Eurozone Sov Inf.-Linked	-0.7%	-0.17%	-0.46%	6.56%	7.16%
S&P Eurozone IG Corporate	0.4%	-0.10%	-0.52%	5.46%	4.91%
S&P U.K. Gilt	0.9%	-0.28%	-2.70%	8.34%	10.59%
S&P U.K. Inflation-Linked Gilt	-2.0%	-0.34%	-5.48%	9.72%	11.27%
S&P U.K. IG Corporate	2.2%	-0.03%	-1.15%	9.99%	9.94%
S&P Germany Sovereign	-0.5%	-0.15%	-1.44%	4.13%	5.28%
S&P France Sovereign	-0.2%	-0.23%	-1.39%	6.52%	7.16%
S&P Spain Sovereign	0.1%	-0.10%	-0.68%	8.94%	11.20%
S&P Italy Sovereign	0.6%	-0.20%	-0.72%	11.92%	18.37%
S&P Switzerland Sovereign	-0.5%	-0.14%	-2.39%	5.10%	7.87%
S&P Ireland Sovereign	-0.1%	-0.12%	-0.83%	6.54%	7.21%

Asia	Yield	Daily	MTD	YTD	12M
S&P Indonesia Sovereign	7.1%	0.05%	1.04%	11.61%	17.42%
S&P India Sovereign	6.6%	-0.15%	0.75%	9.68%	15.43%
S&P Pan Asia Bond	3.6%	0.30%	0.75%	1.45%	5.30%
S&P Taiwan Sovereign	0.7%	-0.04%	0.45%	2.80%	3.60%
S&P Singapore Sovereign	1.7%	-0.02%	0.39%	4.06%	7.84%
S&P China Corporate	3.7%	0.01%	0.14%	2.67%	3.89%
S&P China Sovereign	3.0%	0.06%	0.09%	2.59%	5.54%
S&P Hong Kong Sovereign	1.6%	0.07%	-0.22%	2.83%	4.49%
S&P Japan Corporate	0.3%	-0.06%	-0.31%	0.64%	1.17%
S&P Japan Sovereign	-0.1%	-0.12%	-0.47%	2.09%	3.55%
S&P South Korea Sovereign	1.5%	-0.10%	-0.95%	4.66%	7.12%

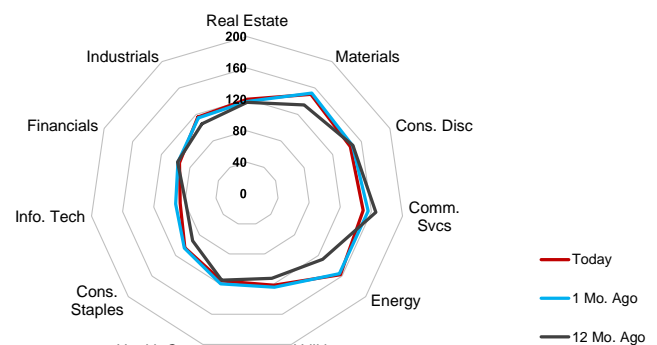
Latin America	Yield	Daily	MTD	YTD	12M
S&P Peru Sovereign	4.1%	-0.01%	2.47%	18.19%	20.07%
S&P/BMV Mexico Sovereign	7.0%	0.16%	0.72%	14.39%	13.99%
S&P/BMV Corporate	8.1%	0.13%	0.71%	12.89%	13.86%
S&P Colombia Sovereign	5.5%	0.03%	-0.30%	9.18%	11.81%
S&P Chile Sovereign	2.7%	-1.28%	-1.09%	15.17%	19.60%

ESG Bonds	Yield	Daily	MTD	YTD	12M
S&P Green Bond (USD)	1.2%	0.05%	0.64%	5.31%	6.26%
S&P Green Bond Select (USD)	0.6%	0.06%	0.69%	6.14%	6.61%
S&P ESG Europe Dev Sov (EUR)	0.1%	-0.20%	-1.38%	7.35%	8.61%

S&P 500 Bond Sectors - Selected Statistics



S&P 500 Bond Sector Option-Adjusted Spreads (OAS)



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