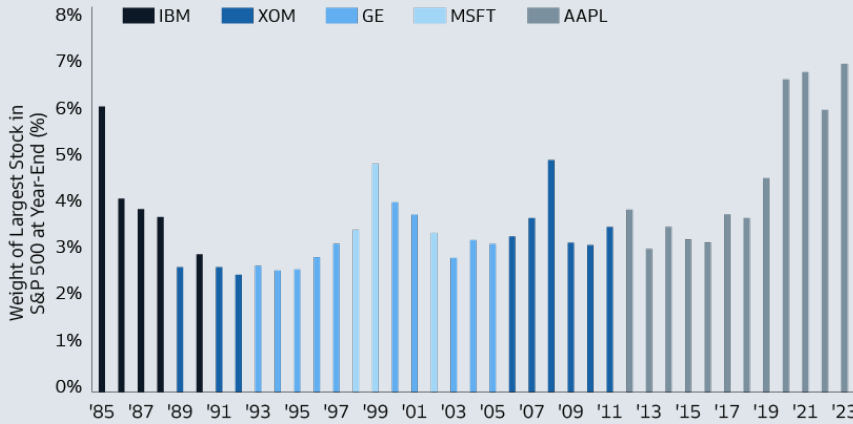


MARKET MONITOR

Chart Of The Week: Weighing In



EQUITIES

By the end of 2023, Apple had roughly a 7% weighting in the S&P 500, making it the largest stock in the index in over 3 decades. While concentration has characterized US stock markets at times historically, the influence of a few firms over equity performance has rarely been this strong. This may offer the opportunity for remaining constituents to catch up to index leaders in 2024, as stable economic growth and interest rates encourage broader participation, in our view.

Source: FactSet and Goldman Sachs Asset Management. As of December 31, 2023.

MARKET SUMMARY

GLOBAL EQUITIES: US equities fell last week as many investors reassessed the magnitude and timeline of Fed rate cuts in 2024. This was most apparent in the tech-heavy Nasdaq which started the year with consecutive daily drawdowns of at least 1% for the third time in its history. Ultimately, the S&P 500 ended last week -1.50% lower. Elsewhere, the STOXX Europe 600 fell -0.54% despite core inflation falling for the fifth consecutive month.

COMMODITIES: Oil prices rose last week as tensions in the Middle East continued to disrupt supply chains through the Red Sea. WTI and Brent crude ultimately finished higher at \$73.81 and \$78.76/bbl, respectively, as US crude inventories declined. Meanwhile, the price of gold ended the week lower at \$2069.70/troy oz.

FIXED INCOME: Global sovereign yields rose last week as firm jobs growth in the US more than offset weak manufacturing data in key developed economies. In the US, the 2-Year and 10-Year US Treasury yields rose to 4.39% and 4.04%, respectively, despite manufacturing activity contracting for the 14th consecutive month in December. Across the pond, the 10-Year German Bund and 10-Year UK Gilt yields closed the week higher at 2.16% and 3.79%, respectively.

FX: The US dollar strengthened against a basket of currencies last week on the back of strong labor market data. The US dollar index ended the week 1.10% higher on below consensus initial jobless claims and an above consensus print for December nonfarm payrolls. Outside the US, the Japanese yen weakened against the dollar amidst uncertainty around future BoJ policy decisions, ultimately ending the week at ¥144.57.

ECONOMIC SUMMARY

EMPLOYMENT: US labor market data was firm last week. Nonfarm payrolls exceeded consensus expectation, printing at 216k for December while initial jobless claims fell by -18k to 202k in the week ended December 30. Meanwhile, US job openings printed below consensus expectations for November, declining by -62k to 8.790M and the quits rate fell to 2.2%. We believe these figures indicate a healthy relaxation in demand for labor.

MONETARY POLICY: The release of December FOMC meeting minutes showed that many participants "reaffirmed that it would be appropriate for policy to remain at a restrictive stance for some time until inflation was clearly moving down sustainably toward the Committee's objective." We view this comment as dovish because we think it is already clear that inflation is moving down sustainably and therefore continue to forecast for rate cuts to begin as early as March.

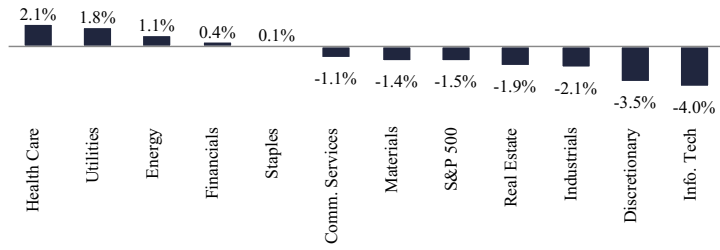
ACTIVITY: The US ISM Manufacturing PMI edged up to 47.4 in December, above consensus expectations. On the other hand, the ISM Services PMI fell sharply to 50.6, led by the employment component falling to its lowest level in over three years. In the UK, the Services PMI rose to 53.4 in December from 50.9 in November, marking the fastest pace of growth since June 2023. The UK Manufacturing PMI recorded 46.2 in December, slightly below November's seven-month high of 47.2.

INFLATION: Euro area headline CPI rose to 2.9% year-over-year in December, in line with consensus expectations. This marked the first uptick in inflation since April, primarily driven by energy-related base effects. Core CPI fell to 3.4% year-over-year, also in line with consensus expectations.

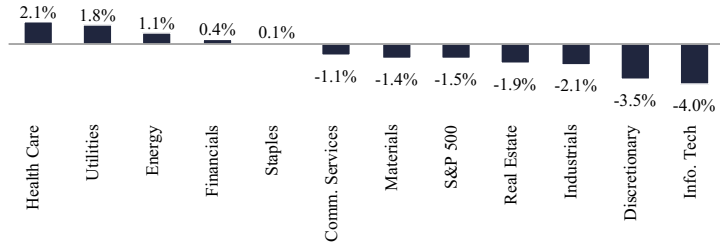
MARKET WATCH

S&P 500 INDEX SECTOR RETURNS

MONTH-TO-DATE, AS OF 01/05/24

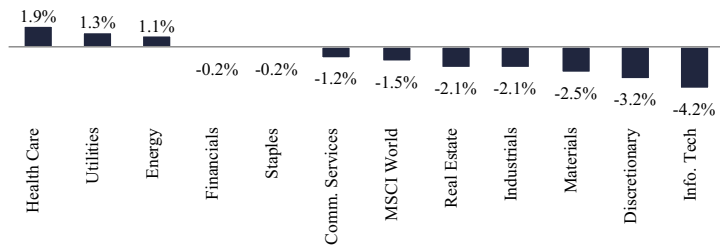


YEAR-TO-DATE, AS OF 01/05/24

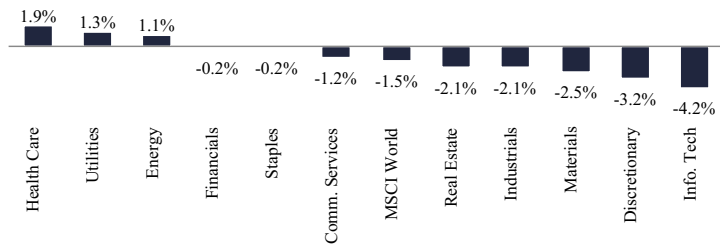


MSCI WORLD INDEX SECTOR RETURNS

MONTH-TO-DATE, AS OF 01/05/24



YEAR-TO-DATE, AS OF 01/05/24



ECONOMIC WATCH

Monday, January 8	Tuesday, January 9	Wednesday, January 10	Thursday, January 11	Friday, January 12	Critical Future Events
Euro area Unemployment (Cons: N/A, Prior: 6.5%)			US CPI YoY (Cons: N/A, Prior: 3.1%) US Core CPI MoM (Cons: 0.3%, Prior: 0.3%) US Initial Jobless Claims (Cons: N/A, Prior: 202K)	US PPI MoM (Cons: 0.2%, Prior: 0.0%) UK GDP MoM (Cons.: 0.1%, Prior: -0.3%) UK Manuf. Production MoM (Cons: N/A, Prior: -1.1%)	BoJ Meeting – Jan 23 ECB Meeting – Jan 25 FOMC Meeting – Jan 31 BoE Meeting – Feb 1

Source: MSCI, Bloomberg, and Goldman Sachs Asset Management. For style performance, Large, Mid, and Small for US Equity refer to the Russell 1000, Russell Midcap, and Russell 2000 indices, respectively. Value refers to companies with lower price-to-book ratios and lower expected growth values, and Growth refers to higher price-to-book ratios and higher forecasted growth values. For US Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Treasury, Bloomberg Corporate Credit, and Bloomberg High Yield indices, respectively. Short, Intermediate, and Long refer to the Short, Intermediate, and Long segments of their respective curves. For European Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Euro Treasury Index, the Bloomberg Euro Corporate Index, and the Bloomberg Euro High Yield Index, respectively. Quality returns refers to the credit quality of asset classes ranging from Government, highest quality, to High Yield, lowest quality. Since August 24, 2021, the Barclays indices are branded "Bloomberg indices". Please see end disclosures for footnotes. **Past performance does not guarantee future results, which may vary.**

Style Performance

US EQUITY SIZE & STYLE RETURNS

Month-to-Date (as of 01/05/24)			Year-to-Date			
Value	Core	Growth		Value	Core	Growth
-0.34%	-1.62%	-2.71%	Large	-0.34%	-1.62%	-2.71%
-1.63%	-2.17%	-3.45%	Medium	-1.63%	-2.17%	-3.45%
-3.26%	-3.73%	-4.23%	Small	-3.26%	-3.73%	-4.23%

MSCI WORLD SIZE & STYLE RETURNS

Month-to-Date (as of 01/05/24)			Year-to-Date			
Value	Core	Growth		Value	Core	Growth
0.06%	-1.43%	-2.78%	Large	0.06%	-1.43%	-2.78%
-1.03%	-2.01%	-3.48%	Medium	-1.03%	-2.01%	-3.48%
-2.02%	-2.88%	-3.74%	Small	-2.02%	-2.88%	-3.74%

US FIXED INCOME MATURITY AND QUALITY RETURNS

Month-to-Date (as of 01/05/24)			Year-to-Date			
Short	Intermed.	Long		Short	Intermed.	Long
-0.37%	-0.58%	-2.73%	Government	-0.37%	-0.58%	-2.73%
-0.48%	-0.87%	-2.84%	Corporate	-0.48%	-0.87%	-2.84%
-0.86%	-1.11%	-1.55%	High Yield	-0.86%	-1.11%	-1.55%

EUROPEAN FIXED INCOME MATURITY AND QUALITY RETURNS

Month-to-Date (as of 01/05/24)			Year-to-Date			
Short	Intermed.	Long		Short	Intermed.	Long
-0.27%	-0.74%	-1.48%	Government	-0.27%	-0.74%	-1.48%
-0.32%	-1.10%	-1.80%	Corporate	-0.32%	-1.10%	-1.80%
	-0.52%		High Yield		-0.52%	

WEEKLY MARKET RECAP

INDEX RETURNS				
	1 WEEK	MTD	QTD	YTD
EQUITIES				
S&P 500	-1.50%	-1.50%	-1.50%	-1.50%
DJ Industrial Average	-0.56%	-0.56%	-0.56%	-0.56%
Russell 2000	-3.73%	-3.73%	-3.73%	-3.73%
Russell Midcap	-2.17%	-2.17%	-2.17%	-2.17%
STOXX Europe 50 (€)	-1.23%	-1.23%	-1.23%	-1.23%
STOXX Europe 600 (€)†	-0.54%	-0.54%	-0.54%	-0.54%
MSCI EAFE Small Cap	-2.25%	-2.25%	-2.25%	-2.25%
FTSE 100 (£)	-0.56%	-0.56%	-0.56%	-0.56%
DAX (€)	-0.94%	-0.94%	-0.94%	-0.94%
FTSE MIB (€)	0.29%	0.29%	0.29%	0.29%
CAC 40 (€)†	-1.54%	-1.54%	-1.54%	-1.54%
SWISS MKT (CHF)	0.43%	0.43%	0.43%	0.43%
TOPIX (¥)	1.15%	1.15%	1.15%	1.15%
Hang Seng (HKD)	-3.00%	-3.00%	-3.00%	-3.00%
MSCI World	-1.52%	-1.52%	-1.52%	-1.52%
MSCI China Free†	-1.78%	-1.78%	-1.78%	-1.78%
MSCI EAFE	-1.26%	-1.26%	-1.26%	-1.26%
MSCI EM	-2.09%	-2.09%	-2.09%	-2.09%
MSCI Brazil (BRL)	-1.14%	-1.14%	-1.14%	-1.14%
MSCI India (INR)	0.53%	0.53%	0.53%	0.53%
FIXED INCOME				
Bloomberg Aggregate	-1.20%	-1.20%	-1.20%	-1.20%
Bloomberg Euro Aggregate	-1.38%	-1.38%	-1.38%	-1.38%
Bloomberg US High Yield	-1.12%	-1.12%	-1.12%	-1.12%
Bloomberg Euro High Yield (€)	-0.52%	-0.52%	-0.52%	-0.52%
Bloomberg Muni Aggregate	-0.29%	-0.29%	-0.29%	-0.29%
Bloomberg TIPS	-0.85%	-0.85%	-0.85%	-0.85%
JPM EMBI Gbl. Divers.	-1.92%	-1.92%	-1.92%	-1.92%
JPM GBI-EM Gbl. Divers.	-0.98%	-0.98%	-0.98%	-0.98%
OTHER				
DJ US Real Estate	-1.96%	-1.96%	-1.96%	-1.96%
FTSE EPRA/NAREIT Dvlpd. Ex-US	-2.42%	-2.42%	-2.42%	-2.42%
S&P GSCI	1.25%	1.25%	1.25%	1.25%
Alerian MLP	1.04%	1.04%	1.04%	1.04%
US Dollar Index	1.10%	1.10%	1.10%	1.10%
VIX	7.23%	7.23%	7.23%	7.23%

COMMODITIES				
	01/05/24	12/31/23	09/30/23	12/31/22
WTI Oil (\$/barrel)	\$73.81	\$71.65	\$90.79	\$80.26
Brent Oil (\$/barrel)	\$78.76	\$77.04	\$95.31	\$85.91
Gold (\$/oz)	\$2069.70	\$2091.80	\$1885.40	\$1842.20
Natural Gas (\$/mmBtu)	\$2.89	\$2.51	\$2.93	\$4.47

CURRENCIES				
	01/05/24	12/31/23	09/30/23	12/31/22
Euro (\$/€)	1.0945	1.1041	1.0577	1.0701
Pound (\$/£)	1.2723	1.2746	1.2205	1.2063
Japanese Yen (¥/\$)	144.67	141.02	149.40	130.97
Swiss Franc (CHF/€)	0.9300	0.9289	0.9682	0.9890
Chinese Yuan Renminbi (CNY/\$)	7.1084	7.0842	7.1746	6.9225

RATES & SPREADS				
	01/05/24	12/31/23	09/30/23	12/31/22
RATES				
Secured Overnight Financing Rate *	5.32%	5.38%	5.31%	4.30%
3-Month US Dollar Libor	5.59%	5.59%	5.66%	4.77%
ECB Depo Rate	4.00%	3.75%	3.50%	2.00%
US Treasuries 2-Year	4.39%	4.25%	5.05%	4.41%
US Treasuries 10-Year	4.04%	3.86%	4.57%	3.84%
US Treasury 2-10 Slope	-0.35%	-0.39%	-0.47%	-0.57%
German Bunds 2-Year	2.57%	2.40%	3.20%	2.76%
German Bunds 10-Year	2.16%	2.02%	2.84%	2.57%
Japanese Govt Bonds 10-Year	0.61%	0.61%	0.76%	0.42%
UK Gilts 10-Year	3.79%	3.54%	4.44%	3.67%
Swiss Govt Bonds 10-Year	0.83%	0.70%	1.10%	1.62%
French OATs 10-Year	2.70%	2.56%	3.40%	3.12%
Italian BTPs 10-Year	3.85%	3.70%	4.78%	4.71%
Spanish Bonos 10-Year	3.15%	2.99%	3.93%	3.66%
SPREADS				
HY Corp. Spread (bps)	352	323	395	468
Bank Loan Spread (bps) *	525	528	551	652
IG Corp. Spread (bps)	103	98	120	130
EMD Spread (bps)	455	438	478	500

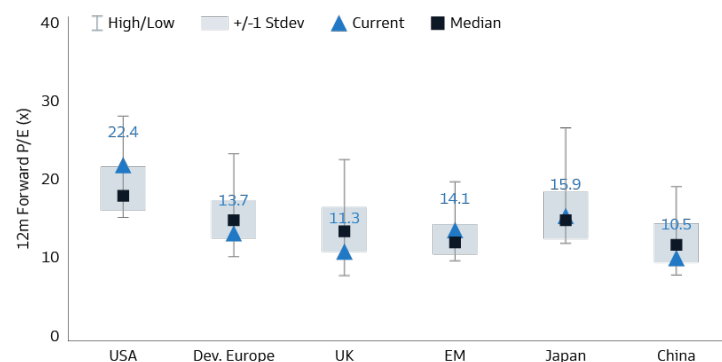
Global Equity Valuations


Chart Source: Goldman Sachs Asset Management and Bloomberg as of close of trading on December 31, 2023. Chart data shows next 12-month P/E ratio from January 2014 to the current period. 12m forward P/E(x) refers to price-to-earnings ratio for the next 12 months, which is a valuation measure applied to respective broad equity indices. Please see additional disclosures at the end of this presentation.

Weekly Market Recap Notes:

All data is denominated in USD unless noted otherwise.

† Data is released weekly, as of Monday.

If data displays an asterisk:

* Data is lagged by 1 day.

** Data is lagged by 2 days.

Source: MSCI and Goldman Sachs Asset Management. **Past performance does not guarantee future results, which may vary. Please see end disclosures for footnotes.**

IMPORTANT INFORMATION

Page 1 Chart of the Week Notes: Source: FactSet and Goldman Sachs Asset Management. As of December 31, 2023. "IBM" refers to International Business Machines Corporation. "XOM" refers to Exxon Mobil Corporation. "GE" refers to General Electric. "MSFT" refers to Microsoft Corporation. "AAPL" refers to Apple Inc. Chart depicts the stock with the largest weight in the S&P 500 on the last trading day of each year since 1985.

Page 1 Market Summary Notes: "Dovish" refers to expansionary monetary policy. "FOMC" refers to Federal Open Market Committee. "Fed" refers to the US Federal Reserve. "CPI" refers to Consumer Price Index. "WTI" refers to West Texas Intermediate crude oil, a common US benchmark for oil prices. "Brent" refers to a global benchmark for oil prices worldwide. "Bbl" refers to barrel. "BoJ" refers to the Bank of Japan.

Page 1 Economic Summary Notes: "ISM" refers to the Institute of Supply Management. "PMI" refers to the Purchasing Managers Index. "CPI" refers to Consumer Price Index. "Core CPI" refers to a Consumer Price Index, excluding food and energy.

Page 2 Style Performance Notes: For US Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg US Treasury, the Bloomberg US Corporate Credit, and the Bloomberg US High Yield indices, respectively. For European Fixed Income, Government, Corporate, and High Yield refer to the Bloomberg Euro Treasury Index, the Bloomberg Euro Corporate Index, and the Bloomberg Euro High Yield Index, respectively. Short, Intermediate, and Long refer to the Short, Intermediate, and Long segments of their respective curves. Quality returns refers to the credit quality of asset classes ranging from Government, highest quality, to High Yield, lowest quality. Since August 24, 2016, the Barclays indices are co-branded "Bloomberg Barclays indices".

Page 2 Economic Watch Notes: "CPI" refers to Consumer Price Index. "Core CPI" refers to a Consumer Price Index, excluding food and energy. "PPI" refers to the Producer Price Index. "GDP" refers to Gross Domestic Product. "YoY" refers to year-over-year. "MoM" refers to month-over-month. "YoY" refers to year-over-year. "BoJ" refers to the Bank of Japan. "Core PCE" refers to Personal Consumption Expenditures, excluding food and energy. "ECB" refers to the European Central Bank. "FOMC" refers to Federal Open Market Committee. "BoE" refers to the Bank of England.

Page 3 Global Equity Valuations Chart Notes: Earnings are forward looking Bloomberg estimates of operating earnings per share over the next four quarters, which may exclude one-time extraordinary gains and losses. Please see index disclosures for additional definitions on the indices.

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Index Benchmarks: Equities: The **S&P 500 Index** is the Standard & Poor's 500 Composite Stock Prices Index of 500 stocks, an unmanaged index of common stock prices. The Dow Jones Industrial Average Index is a price-weighted average of 30 actively traded blue-chip stocks. The **Russell 1000 Index** is a market-cap weighted index that measures the performance of the 1,000 largest companies in the Russell 3000 Index. The **Russell Mid Cap Index** measures the performance of the 800 smallest companies in the Russell 1000 Index, which represent approximately 30% of the total market capitalization of the Russell 1000 Index. The **Russell 2000 Index** is an unmanaged index of common stock prices that measures the performance of the 2000 smallest companies in the Russell 3000 Index. The **MSCI EAFE Index** is a free-float weighted equity index, which covers developed markets countries in Europe, Australasia, Israel, and the Far East. The **MSCI Emerging Markets (EM) Index** is a free float-adjusted market capitalization index that captures large and mid-cap representation across 24 Emerging Markets (EM) countries. The **STOXX Europe 600 Index** is derived from the STOXX Europe Total Market Index (TMI) and is a subset of the STOXX Global 1800 Index. With a fixed number of 600 components, the STOXX Europe 600 Index represents large, mid and small capitalization companies across 18 countries of the European region. The **Japan TOPIX Index** is a capitalization-weighted index of the largest companies and corporations that are found in the First Section of the Tokyo Stock Exchange. The **German DAX** is a capitalization-weighted blue chip stock market index consisting of the 30 major German companies trading on the Frankfurt Stock Exchange. The **Shanghai Composite** is a market capitalization weighted index of all A-shares and B-shares that trade on the Shanghai Stock Exchange. **Euro Stoxx 50 Index**, Europe's leading Blue-chip index for the Eurozone, provides a Blue-chip representation of supersector leaders in the Eurozone. The **Financial Times Stock Exchange (FTSE) 100 Index** is an index of the 100 companies listed on the London Stock Exchange with the highest market capitalization. **FTSE MIB Index** is composed of 40 Italian equities and seeks to replicate the broad sector weights of the Italian stock market. **CAC 40 Index** is composed of the 40 largest equities listed in France. **SWISS Market Index** is composed of the largest and most liquid stocks traded on the Geneva, Zurich, and Basel Stock Exchanges. **Hang Seng Composite Index** covers about 95% of the total market capitalization of companies listed on the Main Board of the Hong Kong Stock Exchange. The **MSCI World Index** is a broad global equity index that represents large and mid-cap equity performance across 23 developed markets countries. It covers approximately 85% of the free float-adjusted market capitalization in each country. The **MSCI China Index** captures large and mid cap representation across China H shares, B shares, Red chips, P chips and foreign listings (e.g. ADRs). With 461 constituents, the index covers about 85% of this China equity universe. Currently, the index also includes Large Cap A shares represented at 5% of their free float adjusted market capitalization. **MSCI Brazil Index** covers about 85% of the total market capitalization of the Brazilian equity universe. **MSCI India Index** covers about 85% of the total market capitalization of the Indian equity universe. **MSCI Russia Index** covers about 85% of the free float-adjusted market capitalization in Russia. The **CBOE Volatility Index (VIX)** is a leading measure of market expectations of near-term volatility conveyed by S&P 500 Index option prices. **Fixed Income:** The **Bloomberg US Aggregate Bond Index** represents an unmanaged diversified portfolio of fixed-income securities, including US Treasuries, investment-grade corporate bonds, and mortgage-backed and asset-backed securities. The **Bloomberg US High-Yield Index** covers the USD-denominated, non-investment grade, fixed-rate, taxable corporate bond market. The **Bloomberg US Aggregate Municipal Bond Index** is an unmanaged broad-based total return index composed of approximately 8,000 investment grade, fixed rate, and tax-exempt issues, with a remaining maturity of at least one year. The **J.P. Morgan Emerging Markets Bond Index (EMBI Global Index)** is an unmanaged market capitalization Index that tracks total returns for USD-denominated debt instruments issued by emerging market sovereign and quasi-sovereign issuers.

The **J.P. Morgan Government Bond Index-Emerging Markets Global Diversified (GBI-EM Global Index)** is a market capitalization Index that tracks the performance of local currency debt issued by emerging market governments. **Bloomberg Euro Aggregate Index** refers to the Bloomberg EuroAgg Index. The index measures the market of investment grade, euro-denominated, fixed-rate bond market, including treasuries, government-related, corporate and securitized issues. Inclusion is based on currency denomination of a bond and not country of risk of the issuer. **Bloomberg Euro High Yield Index** refers to the Bloomberg Euro High Yield 3% Issuer Capped Index. The index measures the of non-investment grade, fixed-rate corporate bonds denominated in USD. Inclusion is based on the currency of issue, and not the domicile of the issuer. The index excludes emerging market debt. **Other:** The **FTSE EPRA/NAREIT Developed ex US Index** is a subset of the FTSE EPRA/NAREIT Developed Index and is designed to track the performance of listed real estate companies and REITS. The **S&P GSCI Commodity Index** is a composite index of commodity sector returns, representing an unleveraged, long-only investment in commodity futures that is broadly diversified across the spectrum of commodities. It is not possible to invest in an unmanaged index. **Commodities:** **WTI Oil** refers to West Texas Intermediate (WTI) Crude Oil, a land-locked crude, delivered via pipeline into Cushing, Oklahoma. **Brent Oil** refers to Brent crude oil, a waterborne crude oil produced in the North Sea. **Currencies:** **Euro (\$/€)** refers to the Euro's exchange rate with the Dollar. **Pound (\$/£)** refers to the British Pound's exchange rate with the US Dollar. **Japanese Yen (¥/\$)** refers to the US Dollar's exchange rate with the Japanese Yen. **Swiss Franc (CHF/€)** refers to the Euro's exchange rate with the Swiss Franc. **Chinese Yuan Renminbi (CNY/\$)** refers to the US Dollar's exchange rate with the Chinese Yuan Renminbi. **Rates:** The **federal funds rate** is the interest rate at which depository institutions lend balances at the Federal Reserve to other depository institutions overnight. The **LIBOR** is the USD-denominated London Interbank Offered Rate, and is the average of interest rates estimated by each of the leading banks in London that it would be charged were it to borrow from other banks. The **2-Year Treasury** is a US Treasury debt obligation that has a maturity of 2 years. The **10-Year Treasury** is a US Treasury debt obligation that has a maturity of 10 years. The **2-10 Treasury Slope** is the difference between the 10-Year Treasury and the 2-Year Treasury. The **German Bunds 2-Year** is a German debt obligation that has a maturity of 2 years. The **German Bunds 10-Year** is a German debt obligation that has a maturity of 10 years. The **Japanese Govt Bonds 2-Year** is a Japanese debt obligation that has a maturity of 2 years. The **Japanese Govt Bonds 10-Year** is a Japanese debt obligation that has a maturity of 10 years. The **UK Gilts 10-Year** is a UK debt obligation that has a maturity of 10 years. The **Swiss Govt Bonds 10-Year** is a Swiss debt obligation that has a maturity of 10 years. The **French OATs 10-Year** is a French debt obligation that has a maturity of 10 years. The **Italian BTPs 10-Year** is an Italian debt obligation that has a maturity of 10 years. The **Spanish Bonos 10-Year** is a Spanish debt obligation that has a maturity of 10 years. **Spreads:** **High Yield (HY) Corporate Spread** is the Bloomberg US Corporate High Yield Average Option Adjusted Spread (OAS), which measures the spread between the US Treasury yield curve and the Bloomberg US Corporate High Yield curve. The **Bank Loan Spread** is the daily discount margin (3-year life) of the Credit Suisse Leveraged Loan Index, which is designed to mirror the investable universe of the USD-denominated leveraged loan market. The **Investment Grade (IG) Corporate Spread** is the Bloomberg US Aggregate Corporate Average OAS, which measures the spread between the US Treasury yield curve and the Bloomberg US Corporate Average curve. The **EMD Spread** is the J.P. Morgan EMBI Global Diversified Sovereign Spread, which measures the spread between the US Treasury yield curve and the J.P. Morgan EMBI Global Diversified Sovereign curve.

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