

Last week's summary

- Global equities added to gains in third consecutive weekly rally; S&P 500 rose 2.58%, down -10.87% from its 2018 peak; U.S. Small Caps rose 4.82%, no longer in bear market territory
- Expected Volatility (VIX Index) declined 14.9%
- World Bank cut its 2019 global growth forecast from 3% to 2.9%
- U.S. government shutdown for record length
- U.S. December consumer prices rose 1.9% YoY
- FOMC minutes show Fed can afford to be patient' about future rate hikes

To watch for this week

- 1/15/19 U.K. Parliament Votes on Brexit Deal, ECB President Speaks, Empire Manufacturing, PPI Final Demand
- 1/16/19 Fed Beige Book, MBA Mortgage Applications, Retail Sales, Import Prices
- 1/17/19 Housing Starts, Building Permits
- 1/18/19 Industrial Production, Capacity Utilization, U. of Michigan Sentiment

Weekly market recap

Global equities rose for a third consecutive week. The S&P 500 Index gained 2.58% on signs of progress between U.S. and China on trade, and the Fed's continuing dovish sentiment. The Federal Reserve meeting minutes showed the December rate hike came with reluctance from a few members. High yielding fixed-income showed continuing strength after yields have been the highest since 2016. Despite the recent strength, risk markets have not recovered since their last peak. The S&P 500 Index is still in correction territory, down -10.87% from its latest peak.

Sources for all charts and tables: Bloomberg, S&P, Redwood. Data for all tables and charts is as of 1/11/19, excluding, 1 YR, 3 YR, 5 YR, 10 YR, MAX DD, which is as of 12/31/18. For illustration purposes only. Past performance is not a guarantee of future results. Please see disclosures on the next page for important additional information.

WEEKLY MARKET DATA

Equities	Level	Index Returns (%)								
		1 Week	QTD	2018	1 YR	3 YR	5 YR	10 YR	Max DD	
S&P 500	2,596.26	2.58	3.63	-4.39	-4.37	9.24	8.48	13.10	-55.22	
Dow Jones Industrial Avg.	23,995.95	2.42	2.93	-3.48	-3.46	12.92	9.69	13.15	-51.78	
Nasdaq Composite	6,971.48	3.45	5.09	-2.81	-2.79	11.16	11.06	16.85	-55.03	
Russell 2000	1,447.39	4.84	7.36	-11.03	-10.97	7.34	4.40	11.95	-50.62	
MSCI EAFE	1,786.13	2.91	3.92	-13.32	-13.25	3.44	1.10	6.91	-60.08	
MSCI ACWI ex USA	265.70	3.25	4.09	-13.82	-13.75	5.01	1.20	7.12	-60.53	
MSCI Emerging Market	1,001.11	3.77	3.70	-14.49	-14.42	9.59	1.96	8.35	-65.13	
S&P 500 Growth	1,564.87	2.67	3.55	-0.01	-0.01	10.83	10.54	14.80	-49.03	
S&P 500 Value	1,036.14	2.47	3.72	-8.97	-8.92	7.22	6.05	11.19	-61.20	
S&P High Dividend	6,039.21	2.48	2.93	-2.42	-2.41	11.05	9.29	13.03	-52.74	
S&P 500 Buy Backs	23,787.64	3.23	4.97	-7.17	-7.13	9.39	7.63	16.55	-45.90	
S&P 500 Low Volatility	7,620.86	2.09	1.58	0.27	0.27	9.12	9.76	12.91	-43.48	

Fixed Income	Yield*	Levels (%)								
		1 Week	QTD	2018	1 YR	3 YR	5 YR	10 YR	Max DD	
Barclays U.S. Aggregate	3.28	-0.04	0.18	0.01	0.01	2.05	2.52	3.48	-5.08	
IG U.S. Corporates	4.06	0.26	0.47	-2.11	-2.10	3.16	3.21	5.52	-14.09	
Municipals	3.26	-0.02	0.35	1.36	1.36	2.34	3.89	5.11	-15.11	
High Yield Municipals	4.99	-0.07	0.27	4.76	4.73	5.77	6.52	9.11	-30.59	
High Yield Corporates	7.20	1.89	3.13	-2.08	-2.07	7.22	3.83	11.12	-35.34	
S&P/LSTA Leveraged Loan	6.22	1.14	3.47	-0.59	-0.59	4.42	2.26	8.10	-33.03	
S&P U.S. Preferred Stock	5.85	1.00	3.27	-4.25	-4.25	2.12	5.08	9.60	-65.75	

Key Rates	Levels (%)					
	1/11/19	12/31/18	9/28/18	12/31/17	12/31/16	1/11/16
5 Year U.S. Treasuries	2.53	2.51	2.95	2.21	1.93	1.59
10-Year U.S. Treasuries	2.70	2.68	3.06	2.41	2.44	2.18
10-Year German Bund	0.24	0.24	0.47	0.43	0.21	0.54
6-mo. CD rate	2.86	2.86	2.70	1.85	1.50	0.94
3-mo. USD Libor	2.79	2.81	2.40	1.69	1.00	0.62
Prime Rate	5.50	5.50	5.25	4.50	3.75	3.50

Index Characteristics			
Div. Yld (%)	FCF Yld (%)	P/E	P/B
2.13	5.53	17.29	2.74
2.43	5.10	15.61	3.36
1.21	0.09	69.64	3.70
1.63	-0.80	45.76	1.66
3.68	6.95	13.57	1.38
3.48	6.49	12.99	1.38
2.94	6.34	11.55	1.36
1.62	4.22	22.70	4.45
2.70	6.99	13.69	1.93
3.17	4.76	17.05	2.42
1.89	7.55	13.65	2.33
2.62	2.66	20.92	2.45

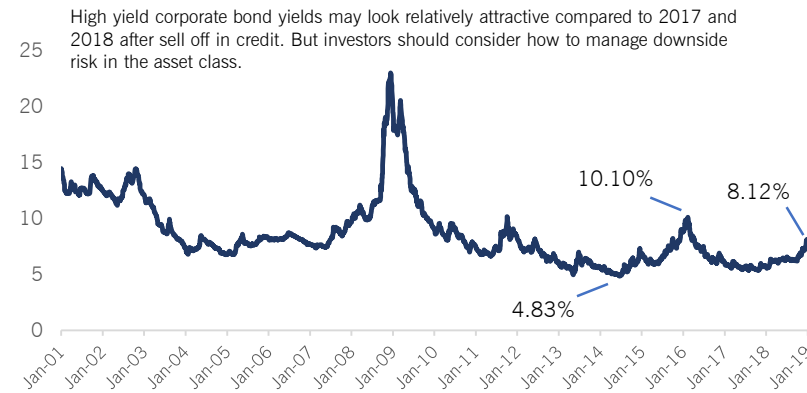
Currencies	Levels		
	1/11/19	12/29/17	12/30/16
\$ per €	1.15	1.20	1.05
¥ per \$	108.48	112.69	116.96
\$ per £	1.28	1.35	1.23

Commodities	Levels		
	1/11/19	12/29/17	12/30/16
Oil (WTI)	51.59	60.42	53.72
Natural Gas	3.10	2.95	3.72
Gold	1290.25	1302.80	1147.50
Silver	15.60	16.94	15.93
Copper	266.20	330.05	250.55

Fund Flows	Net Flows (\$ Millions)		
	1 Week	1 Week	1 Year
Equities	-11293	-11293	-49489
Fixed Income	-14164	-14164	95801
Commodities	478	478	1936

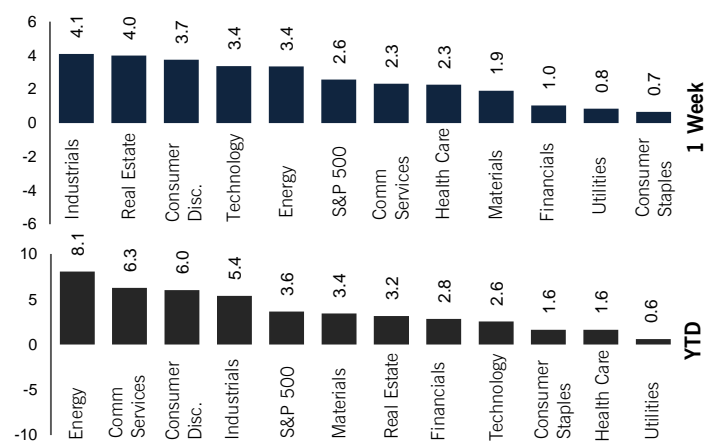
CHART OF THE WEEK

How Long Will The Rally Last in HY?



Source: Bloomberg. Data as of 1/11/19.

S&P 500 SECTOR RETURNS (%)



## Definitions and Disclosures

**Market Recap and Chart of the Week:** The Fed (Federal Reserve) is the central bank for the United States and is responsible for monetary policy. A (technical) correction for a security or market is defined as when prices fall 10% or more. A (technical) bear for a security or market is defined as when prices fall 20% or more. The VIX Index is the Chicago Board Options Exchange Volatility Index, which reflects a market estimate of future volatility, based on the weighted average of the implied volatilities for a wide range of strikes. For S&P 500 (S&P 500 Index), US Small Caps (Russell 2000 Index), U.S. 10-Year Treasury yield, High Yield Corporates, please see definitions below.

**Abbreviations:** MAX DD refers to Maximum Drawdown of the last 12 years ending with the as of data date indicated. A drawdown is a measure of peak to trough loss in a given period; maximum drawdown is a measure of the maximum peak to trough percentage loss in any given period. YTD refers to year to date and QTD refers to quarter to date.

**Indices and Data:** *Equities:* S&P 500 refers to the S&P 500 Index which is a stock market index based on the market capitalization of 500 leading companies publicly traded in the U.S. stock market, as determined by Standard & Poor's. Dow Jones Industrial Avg. (Average) is an index by Standard & Poor's that tracks 30 widely-traded blue chip stocks with large market capitalization. Nasdaq Composite (Index) is a broad-based capitalization-weighted index of stocks in all three Nasdaq tiers: Global Select, Global Market and Capital Market. Russell 2000 Index is an index that measures the performance of the small-cap segment of the U.S. equity universe, including approximately 2000 of the smallest securities based on a combination of their market cap and current index membership. MSCI EAFE refers to the Morgan Stanley Capital International Index that is designed to measure the equity market performance of developed markets outside of the U.S. & Canada and includes Europe, Australia, and the Far East. MSCI ACWI ex USA refers to the Morgan Stanley Capital International All Country World Index, which is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets; the MSCI ACWI ex USA Index does not include the U.S. MSCI Emerging Market Index is an equity index that captures large and mid cap representation across Emerging Market (EM) countries. S&P 500 Growth Index is an index that tracks stocks with growth characteristics in the S&P 500 Index; growth stocks are typically company stock that tends to increase in capital value rather than yield high income. S&P 500 Value Index is an index that tracks stocks with value characteristics in the S&P 500 Index; value stocks are typically company stock that tends to have fundamentals that are priced below those of its peers, based on analysis of price/earnings ratio, yield, and other factors. S&P High Dividend refers to the S&P High Yield Dividend Aristocrats Index and is designed to measure the performance of the S&P 500 Index constituents that have followed a policy of consistently increasing dividends every year for at least 25 years. S&P 500 Buy Backs refers to the S&P 500 Buyback Index, which is designed to measure the performance of the top 100 stocks with the highest buyback ratios in the S&P 500. S&P 500 Low Volatility refers to the S&P 500 Low Volatility Index, which is designed to measure the performance of the 100 least volatile stocks in the S&P 500 Index. *Equities Characteristics:* Calculations and data for characteristics for indices are supplied by Bloomberg. Div. Yld refers to Dividend Yield and is the annual dividends per share divided by the price per share, expressed as a percentage. FCF Yld refers to Free Cash Flow Yield and is an overall return evaluation ratio of a stock, which standardizes the free cash flow per share a company is expected to earn against its market price per share; this ratio is calculated by taking the free cash flow per share divided by the share price. P/E refers to the Price-Earnings Ratio, which is a valuation ratio of a company's current share price compared to its per-share earnings. P/B refers to the Price/Book, which is a ratio of a stock's price divided by the book value per share; for indices, the price-to book value ratio is the average of the index member's capitalization divided by their book value. *Fixed Income:* Performance of these indices reflect total-return, which includes both price and dividends and reinvestments of dividends. "Yield" shown may represent different yield types and calculations and varies from index (or asset class) to index determined by availability of data. Barclays U.S. Aggregate refers to the Barclays U.S. Capital Aggregate Bond Index, which is an index that consists of investment grade U.S. Government bonds, investment grade corporate bonds, mortgage pass-through securities, and asset-backed securities. It is often considered representative of the U.S. investment-grade fixed rate bond market. IG ("Investment Grade") U.S. Corporates is represented by the Barclays U.S. Aggregate Credit Total Return Index, which measures performance from corporate bonds within the Barclays U.S. Aggregate Bond Index. Municipals is represented by the S&P Municipal Bond Index, which is a broad, comprehensive, market value-weighted index that tracks bond issues that are exempt from U.S. federal income taxes or subject to the alternative minimum tax. High Yield Municipals is represented by the Barclays Municipal High Yield Index, which is an index that seeks to track the performance of non-investment grade municipals. High Yield Corporates is represented by the Barclays High Yield Corporate Bond Index, which is an index that consists of U.S. corporate debt that are non-investment grade to reflect the performance of U.S. dollar denominated non-investment grade debt. The S&P/LSTA Leveraged Loan Index is designed to reflect the performance of the largest facilities in the leveraged loan market. S&P U.S. Preferred Stock Index is an index designed to represent the U.S. preferred stock market. Yield shown for Barclays U.S. Aggregate and IG Corporates, High Yield Municipal, and High Yield Corporates is Yield To Worst as provided by Bloomberg. Yield shown for Municipals and S&P/LSTA Leveraged Loan is Yield To Maturity as provided by S&P. Yield shown for S&P U.S. Preferred Stock is the Dividend Yield as provided by S&P on a monthly basis – data shown is as of the last day of the previous month this piece is dated. MSCI All Country World Index is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets. *Key Rates:* Key rate data are provided by Bloomberg. 2-Year, 5-Year, 10-Year U.S. Treasuries are the yield of a debt obligation by the United States government that matures at the year indicated. 10-Year German Bund is a debt obligation issued by the German government that matures in 10-years. A 6-mo CD is a certificate of deposit with a 6 month maturity, 3-mo. USD LIBOR is the "London Inter-Bank Offered Rate, often used as a benchmark for borrowing between banks. The Prime Rate is the lowest rate of interest at which money may be borrowed commercially. *Currencies and Commodities:* \$ per € is the Dollar per Euro and ¥ per \$ is the Yen per Euro, calculated using spot prices. For commodities, the spot price is per common unit (barrel for WTI (West Texas Intermediate) Oil, thermal units for natural gas ounce for precious metals). Data and quotes provided by Bloomberg. *Fund Flows:* Aggregate net amount of flows per investment type in both mutual funds and exchange traded funds; data is as of 1/2/19 as provided by Investment Company Institute. *S&P 500 Sector Returns:* Returns within the S&P 500 Index broken down by GICS (Global Industry Classification Standards). Indices used to show performance are the S&P 500 Utilities Sector Index (Utilities), S&P 500 Telecommunications Sector Index (Communication Services), S&P 500 Consumer Staples Sector Index (Consumer Staples), S&P 500 Health Care Sector Index (Health Care), S&P 500 Industrial Sector Index (Industrials), S&P 500 Technology Sector Index (Technology), S&P 500 Consumer Discretionary Sector Index (Consumer Disc.), S&P 500 Materials Sector Index (Materials), S&P 500 Energy Sector Index (Energy), S&P 500 Financials Sector Index (Financials). UNLESS OTHERWISE NOTED, INDEX RETURNS REFLECT THE REINVESTMENT OF INCOME DIVIDENDS AND CAPITAL GAINS, IF ANY, BUT DO NOT REFLECT FEES, BROKERAGE COMMISSIONS OR OTHER EXPENSES OF INVESTING. INVESTORS CANNOT MAKE DIRECT INVESTMENTS INTO ANY INDEX.

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