

Last week's summary

- U.S. equities hit record highs, S&P 500 edged higher 0.17%
  - Retail sales missed estimates amid hurricane effects
  - Fed minutes mixed, showed concern on weak inflation
  - CPI data weaker than expected; core prices rose 0.5%, below estimate of 0.6%
  - U.S. 10-Year Treasury yield fell to 2.27%, first time in 4 weeks
  - Asian stocks traded at highest level since 2007
- To watch for this week
- M, 10/16/17 Empire Manufacturing
  - T, 10/17/17 Industrial Production
  - W, 10/18/17 Housing Starts
  - Th, 10/19/17 Leading Index, China GDP
  - F, 10/20/17 Yellen speaks in Washington, EU meets on Brexit

Weekly market recap

Global stocks advanced steadily with bonds after inflation data in the U.S. added to evidence that global growth may be continuing. U.S. core inflation rose less than forecast for the 6th time in seven months, curbing bets on a Fed rate increase in December, even as Fed minutes showed officials seeing another rate hike for the year warranted. The U.S. 10-Year Treasury yield fell to 2.27% after rising for four weeks in a row. Bonds in Europe also gained after a report that the European Central Bank may continue asset purchases for at least nine months after it starts tapering in January.

WEEKLY MARKET DATA

| Equities                  | Level     | Index Returns (%) |      |       |       |       |       |       |        |  |
|---------------------------|-----------|-------------------|------|-------|-------|-------|-------|-------|--------|--|
|                           |           | 1 Week            | QTD  | YTD   | 1 YR  | 3 YR  | 5 YR  | 10 YR | Max DD |  |
| S&P 500                   | 2,553.17  | 0.17              | 1.42 | 15.86 | 18.66 | 10.80 | 14.20 | 7.43  | -55.22 |  |
| Dow Jones Industrial Avg. | 22,871.72 | 0.43              | 2.14 | 17.92 | 25.53 | 12.35 | 13.56 | 7.71  | -51.78 |  |
| Russell 2000              | 1,502.66  | -0.49             | 0.82 | 11.84 | 20.78 | 12.16 | 13.77 | 7.82  | -50.62 |  |
| MSCI EAFE                 | 2,004.05  | 1.63              | 1.57 | 22.36 | 19.78 | 5.62  | 8.97  | 1.92  | -60.08 |  |
| MSCI ACWI ex USA          | 298.29    | 1.70              | 2.17 | 24.24 | 20.26 | 5.25  | 7.52  | 1.81  | -60.53 |  |
| S&P High Dividend         | 5,721.67  | 0.75              | 1.61 | 10.71 | 12.26 | 12.43 | 14.59 | 8.98  | -52.74 |  |
| S&P 500 Buy Backs         | 22,598.60 | -0.52             | 0.52 | 12.41 | 18.97 | 9.56  | 16.86 | 10.70 | -45.90 |  |
| S&P 500 Low Volatility    | 7,487.86  | 0.76              | 1.68 | 14.07 | 13.13 | 12.17 | 13.21 | 9.41  | -43.48 |  |

| Fixed Income             | Yield* | Index Returns (%) |       |      |      |      |      |       |        |  |
|--------------------------|--------|-------------------|-------|------|------|------|------|-------|--------|--|
|                          |        | 1 Week            | QTD   | YTD  | 1 YR | 3 YR | 5 YR | 10 YR | Max DD |  |
| Barclays U.S. Aggregate  | 2.53   | 0.48              | 1.18  | 3.48 | 0.07 | 2.71 | 2.06 | 4.27  | -5.08  |  |
| IG U.S. Corporates       | 3.04   | 0.56              | 1.86  | 5.60 | 1.96 | 3.87 | 3.23 | 5.53  | -14.09 |  |
| Municipals               | 2.88   | 0.35              | 0.40  | 4.70 | 0.84 | 3.21 | 3.08 | 4.45  | -15.11 |  |
| High Yield Municipals    | 5.32   | 0.64              | 0.51  | 8.27 | 1.44 | 4.56 | 4.73 | 4.74  | -30.59 |  |
| High Yield Corporates    | 5.46   | 0.03              | 0.19  | 7.20 | 8.90 | 5.83 | 6.36 | 7.83  | -35.34 |  |
| S&P/LSTA Leveraged Loan  | 4.78   | 0.16              | 0.38  | 2.72 | 4.58 | 3.17 | 3.44 | 4.48  | -33.03 |  |
| S&P U.S. Preferred Stock | 5.90   | 0.38              | -0.29 | 8.69 | 4.95 | 6.19 | 6.33 | 5.53  | -65.75 |  |

| Blended Benchmarks               | Index Returns (%) |      |       |       |      |      |       |        |  |
|----------------------------------|-------------------|------|-------|-------|------|------|-------|--------|--|
|                                  | 1 Week            | QTD  | YTD   | 1 YR  | 3 YR | 5 YR | 10 YR | Max DD |  |
| 20% MSCI ACWI/80% U.S. Aggregate | 0.57              | 2.42 | 6.64  | 3.70  | 3.70 | 3.77 | 4.60  | -10.10 |  |
| 30% MSCI ACWI/70% U.S. Aggregate | 0.61              | 3.03 | 8.22  | 5.53  | 4.18 | 4.61 | 4.69  | -14.89 |  |
| 40% MSCI ACWI/60% U.S. Aggregate | 0.65              | 3.63 | 9.80  | 7.37  | 4.66 | 5.44 | 4.75  | -21.35 |  |
| 65% MSCI ACWI/35% U.S. Aggregate | 0.74              | 5.08 | 13.75 | 12.02 | 5.84 | 7.46 | 4.65  | -36.37 |  |
| 80% MSCI ACWI/20% U.S. Aggregate | 0.80              | 5.92 | 16.12 | 14.84 | 6.53 | 8.65 | 4.42  | -44.67 |  |

Index Characteristics

| Div. Yld (%) | FCF Yld (%) | P/E   | P/B  |
|--------------|-------------|-------|------|
| 1.95         | 4.23        | 21.80 | 3.07 |
| 2.24         | 4.03        | 19.50 | 3.68 |
| 1.32         | 1.23        | 56.64 | 2.03 |
| 3.08         | 5.18        | 20.15 | 1.69 |
| 2.87         | 5.68        | 19.09 | 1.70 |
| 2.65         | 4.00        | 21.64 | 2.96 |
| 1.48         | 5.79        | 16.74 | 2.44 |
| 2.19         | 3.93        | 21.48 | 3.17 |

Levels

| Currencies | 10/13/17 | 12/31/16 | 12/31/15 |
|------------|----------|----------|----------|
| \$ per €   | 1.18     | 1.05     | 1.09     |
| ¥ per \$   | 111.82   | 116.96   | 120.22   |
| \$ per £   | 1.33     | 1.23     | 1.47     |

Commodities

|             | 10/13/17 | 12/31/16 | 12/31/15 |
|-------------|----------|----------|----------|
| Oil (WTI)   | 51.45    | 53.72    | 37.04    |
| Natural Gas | 3.00     | 3.72     | 2.34     |
| Gold        | 1303.82  | 1147.50  | 1061.10  |
| Silver      | 17.42    | 15.93    | 13.85    |
| Copper      | 313.35   | 250.55   | 213.50   |

Net Flows (\$ Millions)

| Fund Flows   | 1 Week | YTD    | 1 Year |
|--------------|--------|--------|--------|
| Equities     | -3519  | 134048 | 155207 |
| Fixed Income | 12397  | 311603 | 308256 |
| Commodities  | -357   | 3062   | -4197  |

Levels (%)

| Key Rates               | 10/13/17 | 9/30/17 | 3/31/17 | 12/31/16 | 12/31/15 | 10/13/14 |
|-------------------------|----------|---------|---------|----------|----------|----------|
| 5 Year U.S. Treasuries  | 1.90     | 1.94    | 1.89    | 1.93     | 1.76     | 1.53     |
| 10-Year U.S. Treasuries | 2.27     | 2.33    | 2.30    | 2.44     | 2.27     | 2.28     |
| 10-Year German Bund     | 0.40     | 0.46    | 0.47    | 0.21     | 0.63     | 0.90     |
| 6-mo. CD rate           | 1.55     | 1.53    | 1.45    | 1.50     | 0.85     | 0.36     |
| 3-mo. USD Libor         | 1.35     | 1.33    | 1.30    | 1.00     | 0.61     | 0.23     |
| Prime Rate              | 4.25     | 4.25    | 4.25    | 3.75     | 3.50     | 3.25     |

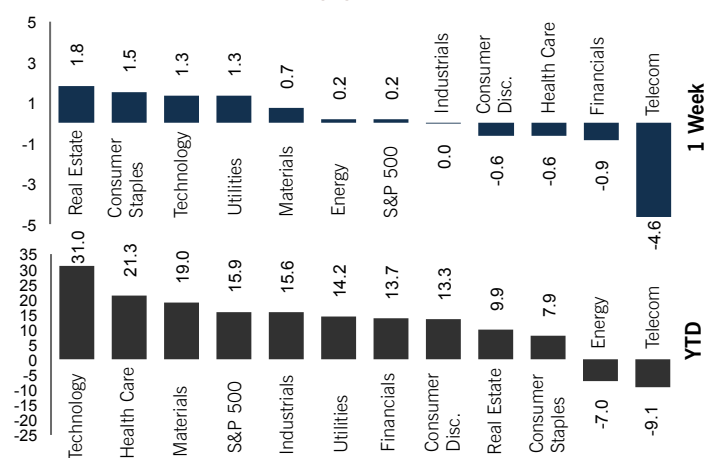
CHART OF THE WEEK

Cyclical Rotation: Financials / Staples Ratio Widest in Over 7 Years



Source: Bloomberg. Data from 1/1/10 to 10/13/2017.

S&P 500 SECTOR RETURNS (%)



Sources for all charts and tables: Bloomberg, S&P, Redwood. Data for all tables and charts is as of 10/13/17, excluding, 1 YR, 3 YR, 5 YR, 10 YR, MAX DD, which is as of 9/30/17. For illustration purposes only. Past performance is not a guarantee of future results. Please see disclosures on the next page for important additional information.



## Definitions and Disclosures

**Market Recap and Chart of the Week:** Fed refers to the Federal Reserve, which is the central bank of the U.S. that is responsible for monetary policy, designed to expand a country's output and curb the effects of deflation. European Central Bank (ECB) is responsible for the monetary system of the European Union. CPI refers to the Consumer Price Index, which is a measure of weighted average prices of a basket of consumer goods and services and is used as a measurement of inflation. Inflation is the rate at which the general level of prices for goods and services is rising and, consequently, the purchasing power of currency is falling. For S&P 500 (S&P 500 Index), S&P 500 Financials, S&P 500 Consumer Staples, and U.S. 10-Year Treasury Yield, please see definitions below.

**Abbreviations:** MAX DD refers to Maximum Drawdown of the last 10 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. 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. 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. *Blended Benchmarks:* Benchmarks shown reflect the total return of two indices with the weights indicated and rebalanced annually. Blend returns are calculated and are hypothetical with data supplied by Bloomberg. For example, 20% MSCI ACWI/ 80% U.S. Aggregate is a blend of 20%: 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; 80%: U.S. Aggregate refers to the Barclays U.S. Aggregate Bond Index (see above). *Key Rates:* Key rate data are provided by Bloomberg. 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 10/4/17 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 (Telecom), 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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