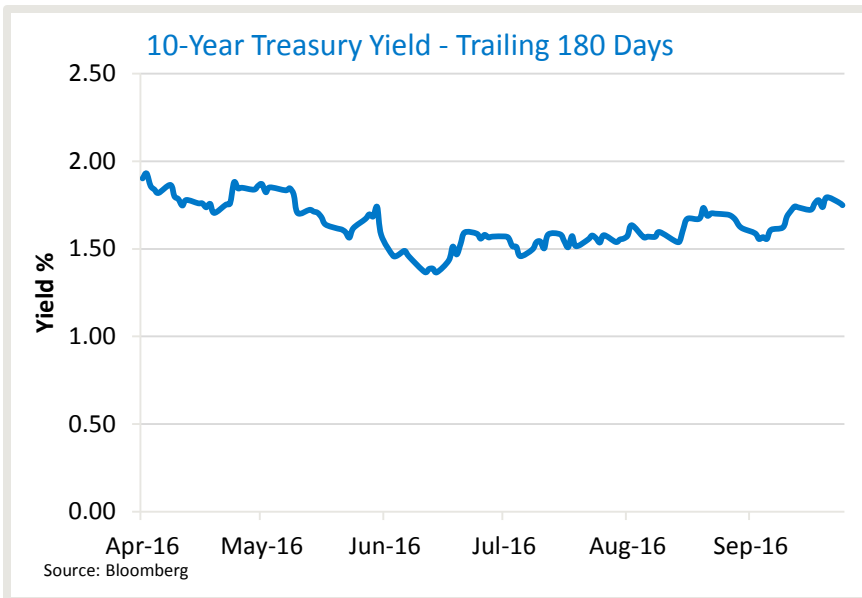


# Weekly Market Review

October 21, 2016

## Chart of the Week



## Weekly Highlights

- **Minutes from the FOMC's (Federal Open Market Committee) Domestic stocks edged slightly higher**, responding to a mixed bag of economic data, earnings results, uncertainty regarding the election, and the possibility of a December rate hike.
- **The price for a barrel of crude rose**, but then declined, ending the week relatively flat.
- **The Philadelphia Fed Manufacturing Index** fell to 9.7 in October, from 12.8 in September, but remained well above market expectations of 5.3. 2015
- **Third quarter earnings are out.** Companies have begun to report third quarter earnings, with some misses, but many positively surprising on the upside.

## Talking Points

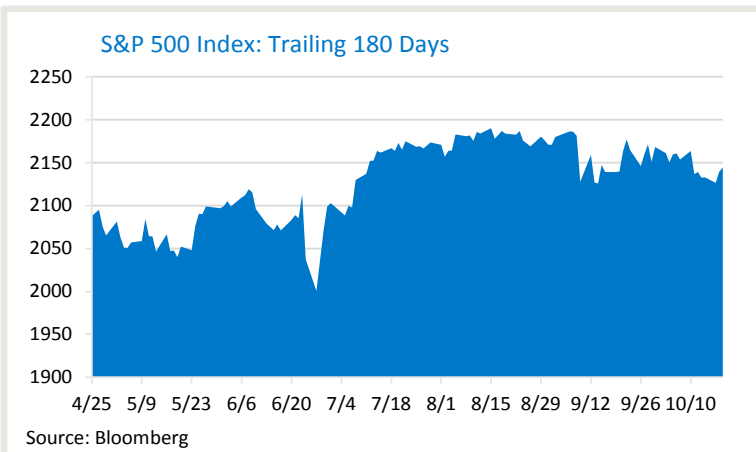
- **Among equities**, small caps outperformed large caps—with the Russell 2000 outperforming the S&P 500. Growth stocks outperformed value stocks, and international equities outperformed domestic stocks. Emerging markets outperformed developed markets.
- **Treasury prices increased.** The yield on the 10-year T-note declined slightly from 1.80% to 1.75%.
- **Commodity indices were relatively flat**, as oil gave back some gains earlier in the week and gold was slightly higher.
- **The dollar continued its upward trajectory** relative to all major currencies in anticipation of a December rate hike.
- **Among economic data released this week:** initial jobless claims rose to a five-week high of 260,000, from 247,000 the week prior; existing home sales beat market expectations, rising 3.2% to 5,470,000 in September, from 5,300,000 the month prior; and CPI increased to 1.5 in September from 1.1 in August year over year, but still remains under the Fed's 1.7% - 2% target.

## Market Dashboard

	Last Price	Change	% Chg.	YTD %
<b>S&amp;P 500</b>	2,141.16	8.18	0.38%	4.8%
<b>Dow Industrials</b>	18,145.71	7.33	0.04%	4.1%
<b>Nasdaq</b>	5,257.40	43.24	0.83%	5.0%
<b>Russell 2000</b>	1,218.10	5.69	0.47%	7.2%
<b>Euro Stoxx Index</b>	344.29	4.34	1.28%	-5.9%
<b>Shanghai Composite</b>	3,090.94	27.13	0.89%	-12.7%
<b>Russell Global</b>	1,726.22	12.95	0.76%	4.1%

Source: Bloomberg; Index % change is based on price.

	Last Price	Change	% Chg.	YTD %
<b>Russell Global EM</b>	2,887.41	48.59	1.71%	13.8%
<b>10-Year US Treas.</b>	1.74	-5 bps	NM	NM
<b>DJ UBS Comm. Idx.</b>	86.11	-0.24	-0.27%	9.6%
<b>Gold</b>	\$1,267.14	\$16.10	1.29%	19.4%
<b>Crude Oil</b>	\$50.97	\$0.20	0.39%	16.2%
<b>Dollar Index</b>	98.65	0.59	0.61%	0.0%
<b>VIX Index</b>	13.34	-2.78	-17.25%	-26.7%



	One Week			YTD		
	Value	Growth		Value	Growth	
L	-0.16%	0.36%	0.84%	4.68%	4.15%	3.68%
	0.69%	0.50%	0.29%	9.76%	6.38%	2.99%
S	0.71%	0.47%	0.22%	11.54%	7.24%	3.02%

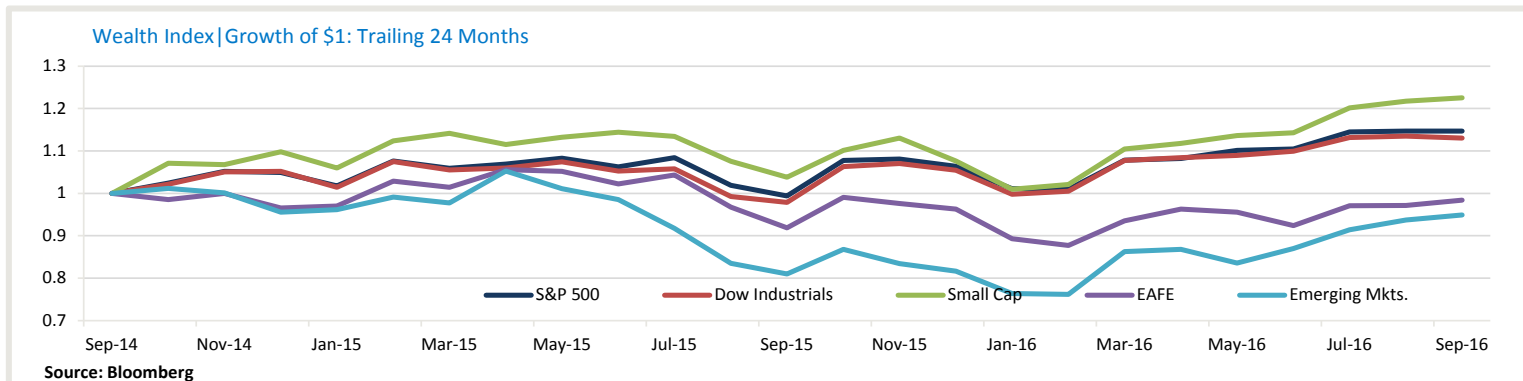
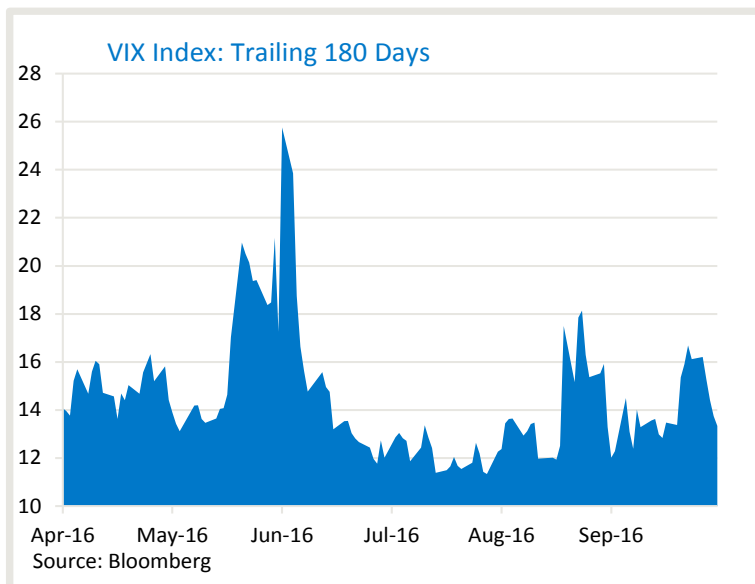
Source: Bloomberg

### Sector Performance:

#### S&P/Global Industry Classification Sectors (GICS)

	% Wgt in S&P 500	Week % Chg.	YTD % Chg.
<b>Consumer Discretionary</b>	12.6	0.92%	1.8%
<b>Consumer Staples</b>	9.9	-0.44%	3.2%
<b>Energy</b>	7.3	0.50%	15.3%
<b>Financials</b>	13.2	1.19%	1.4%
<b>Health Care</b>	14.4	0.13%	-3.3%
<b>Industrials</b>	9.6	-0.39%	6.3%
<b>Information Technology</b>	21.5	0.74%	11.2%
<b>Materials</b>	2.9	1.58%	7.9%
<b>Telecom Services</b>	2.5	-3.80%	6.0%
<b>Utilities</b>	3.3	0.56%	10.8%

Source: Bloomberg



## The Economy and Markets

### ***A Macro View – Goldilocks and the three bears: the Election, European Stimulus, and US Interest Rates***

As we approach October's end on the heels of an unseasonably warm fall, many of us are thinking about what lies ahead and the impact it will have on the markets. At the forefront, of course, are the US presidential election, the possibility of a Federal Reserve (Fed) rate hike as early as December, and what (if any) additional stimulus will come from the European Central Bank (ECB). And, just because I like euphemisms, and am in the Halloween spirit, as we prepare for what is sure to be an onslaught of very colorfully and elaborately dressed children on our front lawn in the next two weeks, I present my theme: Goldilocks and the three bears.

Envision the Fed as a sort of Goldilocks, navigating seemingly familiar, but in some ways uncharted and precarious, territory in the wake of a range-bound market, looming inflation, anemic domestic and international growth, and a very visible and public US presidential election cycle that has taken global center stage. No other presidential race in modern times has ever had the type of noise and divide we have experienced thus far in 2016. Debate viewership alone will convince anyone of this, with a record 84 million viewers tuning into the first presidential debate, and 66 million watching the final one on Wednesday night. Even the vice presidential debate drew 37 million viewers—*37 million*—staggering when one considers that up to a third of Americans cannot name the vice president in office at any given point in time.

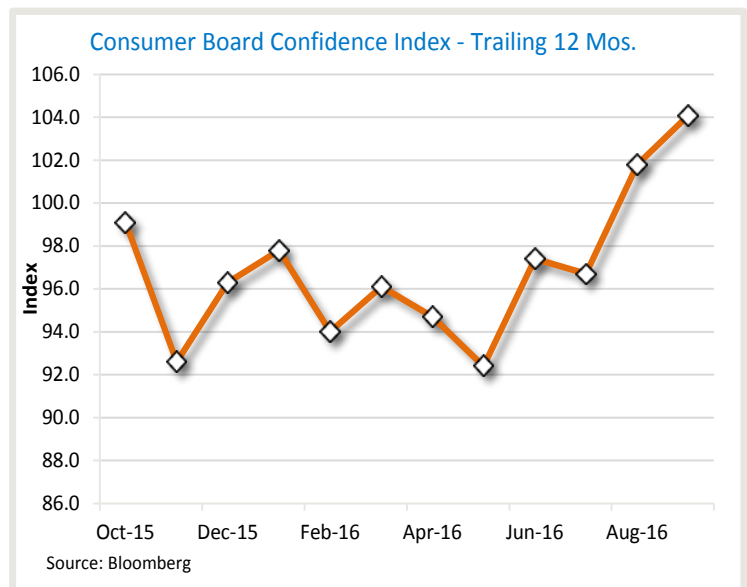
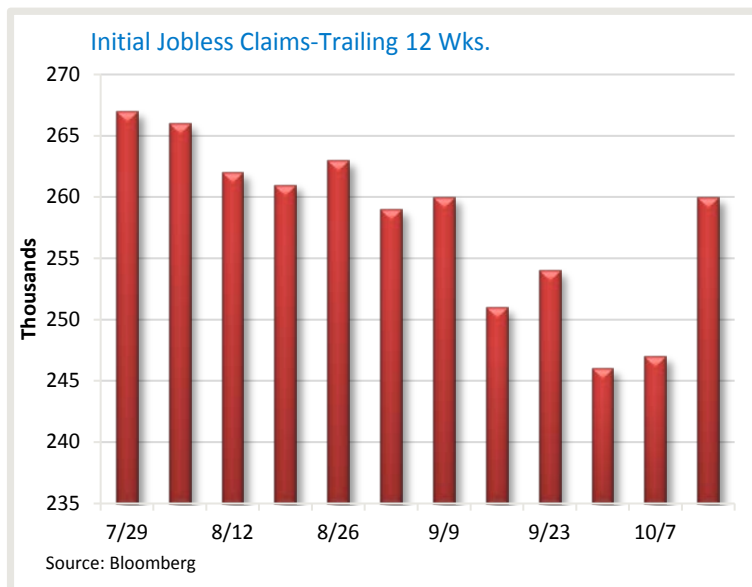
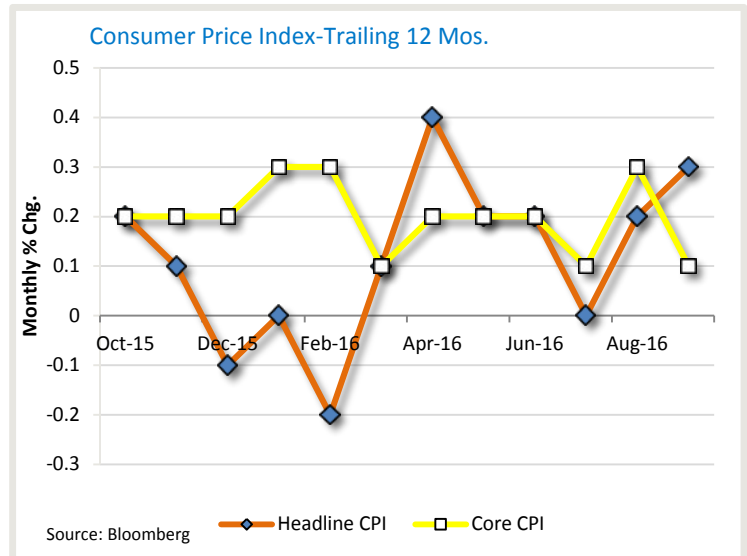
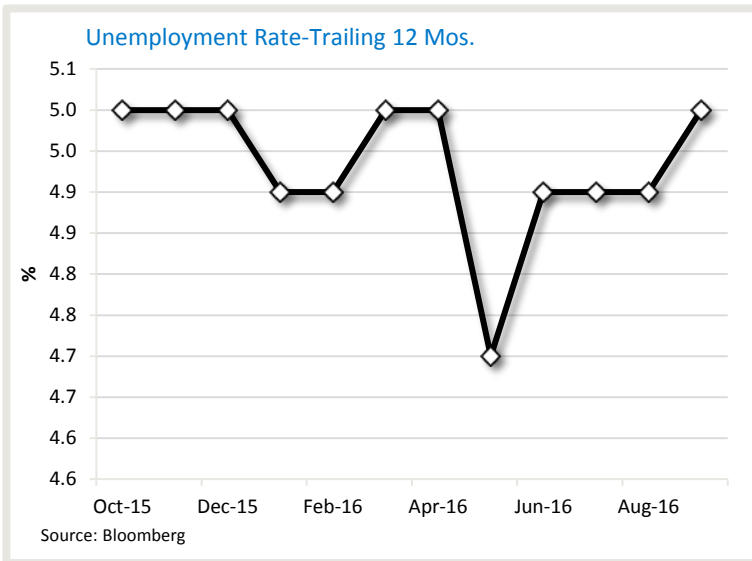
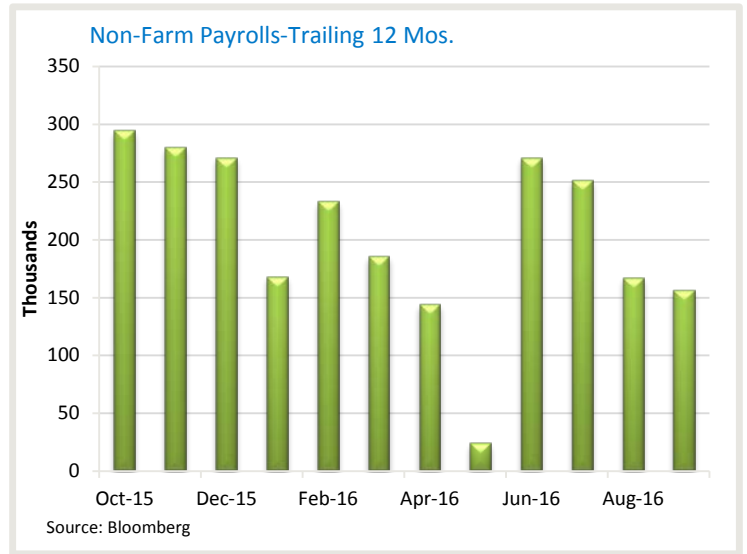
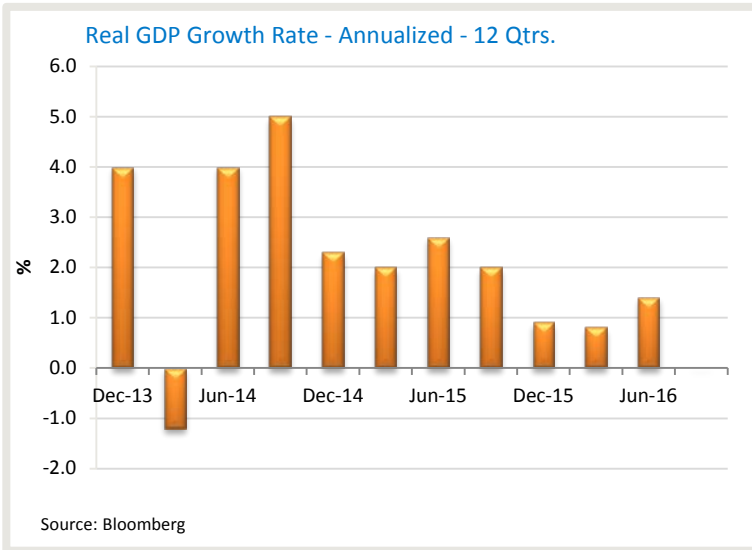
Without getting into the nitty gritty of each of the presidential candidates' proposed policies, suffice it to say that the implications for the stock market will look very different if Trump prevails versus a Clinton regime. A vote for Hillary in many ways will be a vote for the status quo, largely continuing her predecessor's policies, albeit with some new initiatives, higher taxes, and increased regulation. In this scenario, investors are unlikely to perceive either a threat of, or potential for, significant change, and the market is likely to keep ho-humming along as it has been. In contrast, a vote for Trump will be for a new and much-less-predictable path, and at the very least, it is reasonable to conclude that the uncertainty may carry an increased risk of market volatility.

Across the pond, the ECB contends with the prospect of rising inflation and questions regarding the scope and duration of its quantitative easing. Many wonder how long it can possibly continue, and when the bank will begin to taper. Europe is fraught with many ongoing growth hurdles of its own. In the background, of course, are the struggles of large financial lenders, such as Deutsche Bank. Although Germany seems to have turned its back on the possibility of a bailout, many wonder whether the bank will pull through, as other similarly large and struggling financial institutions (particularly in Italy) watch closely. On Thursday, European equities finished higher after ECB President Draghi hinted of announcing plans in December for additional easing.

So, what is the Fed to do? Although the FOMC will meet in November, no policy changes are expected until at least the December meeting. Given a mixed bag of domestic economic data, a bevy of geopolitical concerns ranging from Brexit, to Russian tensions, and the Italian referendum, the committee must carefully consider the health of the US economy in its rate hike trajectory. Of note this week, initial jobless claims rose to a five-week high of 260,000, from 247,000 the week prior. The Philadelphia Fed Manufacturing Index decreased to 9.7 in October, from 12.8 in September, but remained well above market expectations of 5.3. And, existing home sales beat market expectations, rising 3.2% to 5,470,000 in September, from 5,300,000 the month prior. Corporate earnings season has begun, and despite some misses, several companies are beating expectations, and the dollar's October rally continues to strengthen on the prospect of a rate increase. With an abundance of factors at play, one thing is certain – the committee has its work cut out for it! For our sake, let's hope it gets it *'just right.'*

Cynthia Crandall, CAIA  
VP, Senior Investment Analyst

## Economic Data



## Eurozone

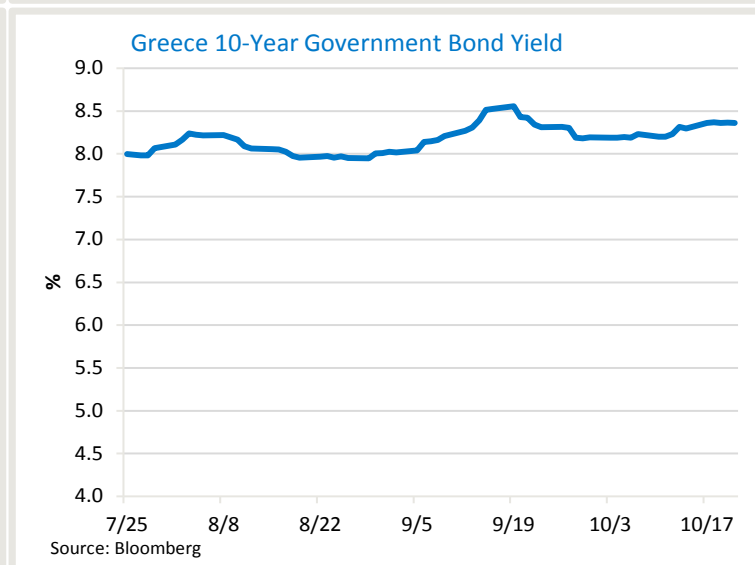
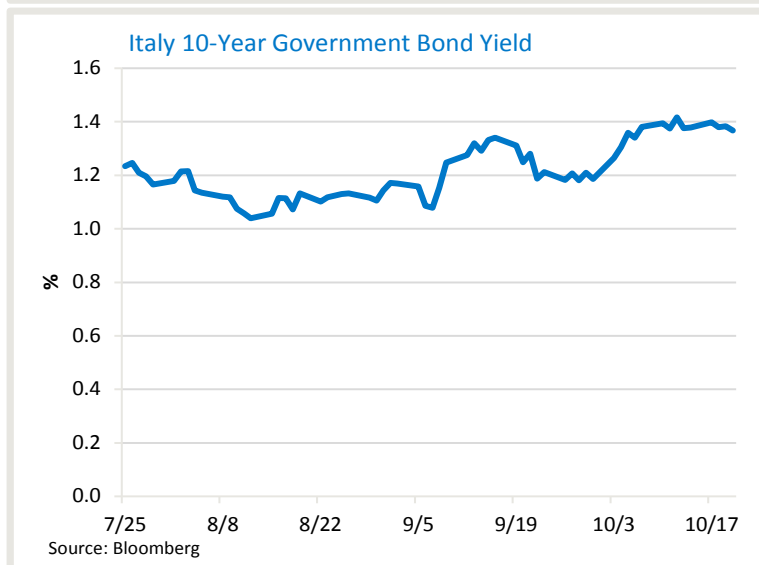
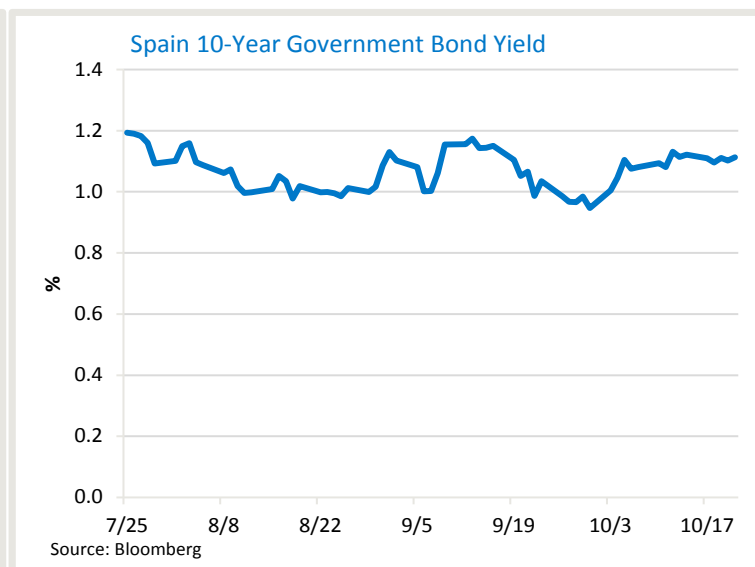
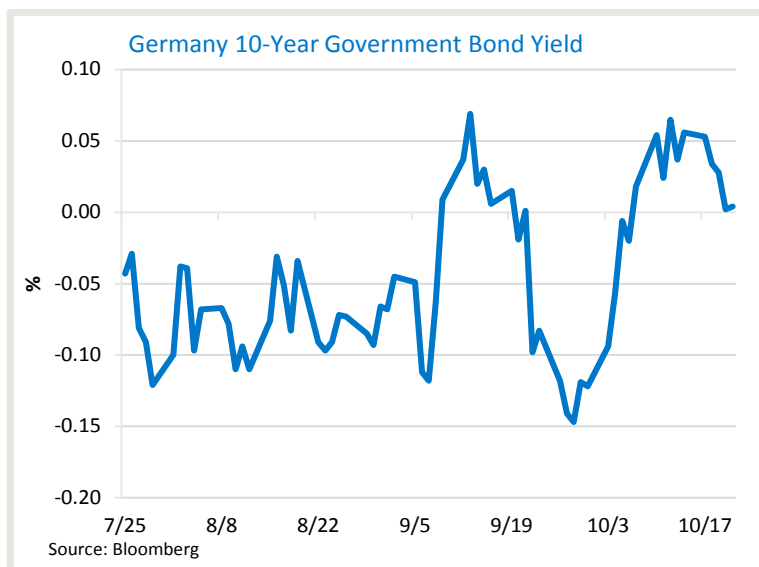
### SELECTED EUROPEAN SOVEREIGN YIELD PERFORMANCE

	Last	Change	% Chg.	YTD %
Germany 10-Yr. Govt.	0.00	5 bps	NM	NM
Greece 10-Yr. Govt.	8.36	-3 bps	NM	NM
Italy 10-Yr. Govt.	1.37	1 bps	NM	NM
Spain 10-Yr. Govt.	1.11	1 bps	NM	NM
Belgium 10-Yr. Govt.	0.23	5 bps	NM	NM

Source: Bloomberg

Basis points (bps)

	Last	Change	% Chg.	YTD %
France 10-Yr. Govt.	0.28	5 bps	NM	NM
Ireland 10-Yr. Govt.	0.46	3 bps	NM	NM
Portugal 10-Yr. Govt.	3.18	9 bps	NM	NM
Netherlands 10-Yr. Govt.	0.11	5 bps	NM	NM
U.K. 10-Yr. Govt.	1.09	1 bps	NM	NM

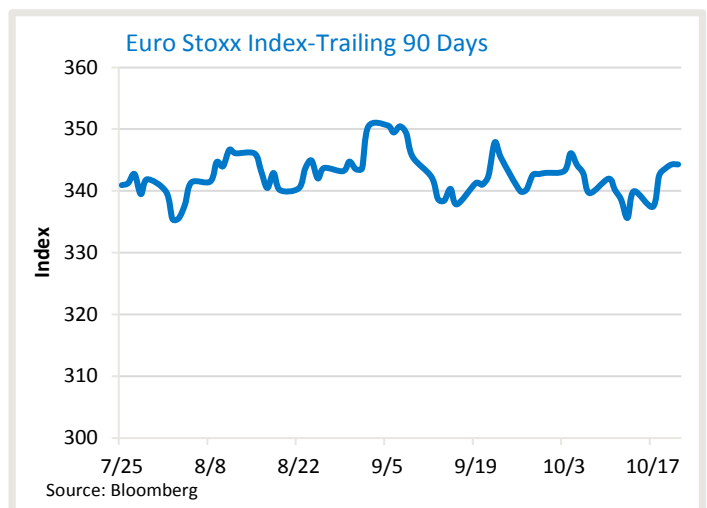
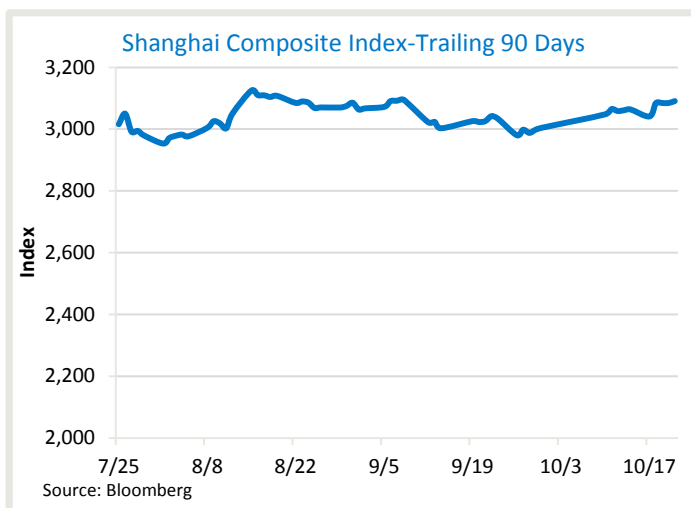
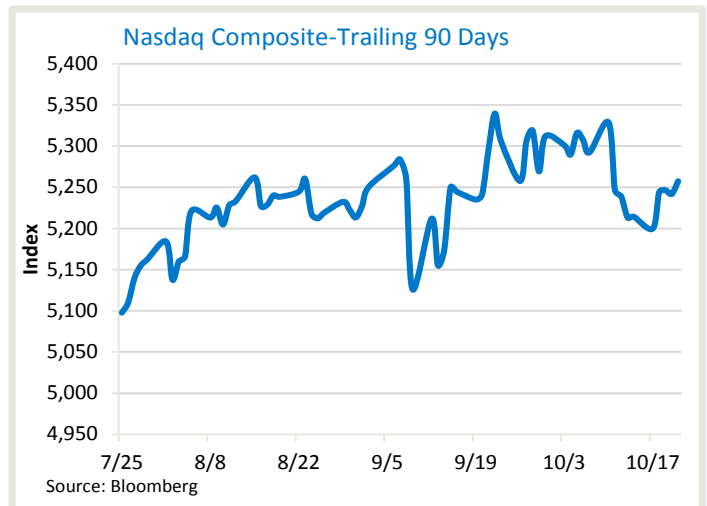
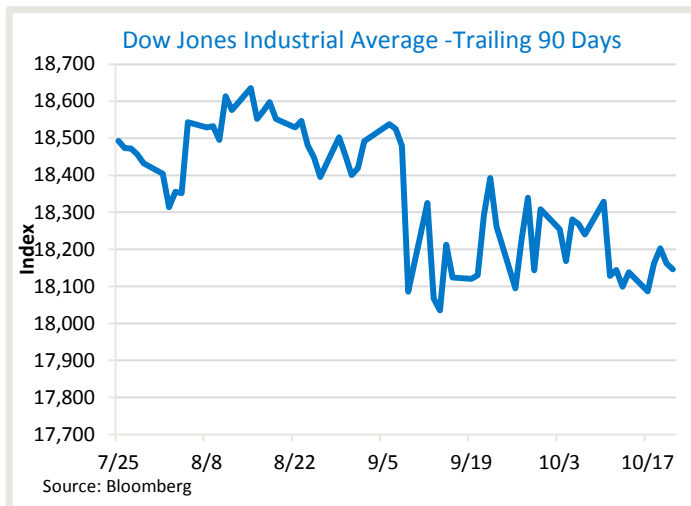


## Equities

### WORLD MARKET PERFORMANCE

	Last	Change	% Chg.	YTD %		Last	Change	% Chg.	YTD %
<b>S&amp;P 500</b>	<b>2,141.16</b>	<b>8.18</b>	<b>0.38%</b>	<b>4.76%</b>	<b>Swiss Market Index</b>	<b>8,034.86</b>	<b>-55.05</b>	<b>-0.68%</b>	<b>-8.88%</b>
<b>Dow Industrials</b>	<b>18,145.71</b>	<b>7.33</b>	<b>0.04%</b>	<b>4.14%</b>	<b>CAC 40 Index (France)</b>	<b>4,536.07</b>	<b>65.15</b>	<b>1.46%</b>	<b>-2.18%</b>
<b>Nasdaq Composite</b>	<b>5,257.40</b>	<b>43.24</b>	<b>0.83%</b>	<b>4.99%</b>	<b>DAX Index (Germany)</b>	<b>10,710.73</b>	<b>130.35</b>	<b>1.23%</b>	<b>-0.30%</b>
<b>Russell Global</b>	<b>1,726.22</b>	<b>12.95</b>	<b>0.76%</b>	<b>4.1%</b>	<b>Irish Overall Index</b>	<b>6,035.81</b>	<b>128.00</b>	<b>2.17%</b>	<b>-11.13%</b>
<b>Russell Global EM</b>	<b>2,887.41</b>	<b>48.59</b>	<b>1.71%</b>	<b>13.8%</b>	<b>Nikkei 225</b>	<b>17,184.59</b>	<b>328.22</b>	<b>1.95%</b>	<b>-9.71%</b>
<b>S&amp;P/TSX (Canada)</b>	<b>14,939.04</b>	<b>354.05</b>	<b>2.43%</b>	<b>14.83%</b>	<b>Hang Seng Index</b>	<b>23,374.40</b>	<b>343.10</b>	<b>1.49%</b>	<b>6.66%</b>
<b>Mexico IPC</b>	<b>48,418.40</b>	<b>716.95</b>	<b>1.50%</b>	<b>12.66%</b>	<b>Shanghai Composite</b>	<b>3,090.94</b>	<b>27.13</b>	<b>0.89%</b>	<b>-12.67%</b>
<b>Brazil Bovespa</b>	<b>64,108.08</b>	<b>2340.86</b>	<b>3.79%</b>	<b>47.88%</b>	<b>Kospi Index (S. Korea)</b>	<b>2,033.00</b>	<b>10.34</b>	<b>0.51%</b>	<b>3.66%</b>
<b>Euro Stoxx 600</b>	<b>344.29</b>	<b>4.34</b>	<b>1.28%</b>	<b>-5.88%</b>	<b>Taiwan Taiex Index</b>	<b>9,306.57</b>	<b>141.40</b>	<b>1.54%</b>	<b>11.62%</b>
<b>FTSE 100</b>	<b>7,020.47</b>	<b>6.92</b>	<b>0.10%</b>	<b>12.47%</b>	<b>Tel Aviv 25 Index</b>	<b>1,429.76</b>	<b>13.53</b>	<b>0.96%</b>	<b>-6.47%</b>
<b>IBEX 35 (Spain)</b>	<b>9,100.40</b>	<b>332.50</b>	<b>3.79%</b>	<b>-4.65%</b>	<b>MICEX Index (Russia)</b>	<b>1,957.70</b>	<b>-8.69</b>	<b>-0.44%</b>	<b>11.15%</b>

Source: Bloomberg; Index % change is based on price.



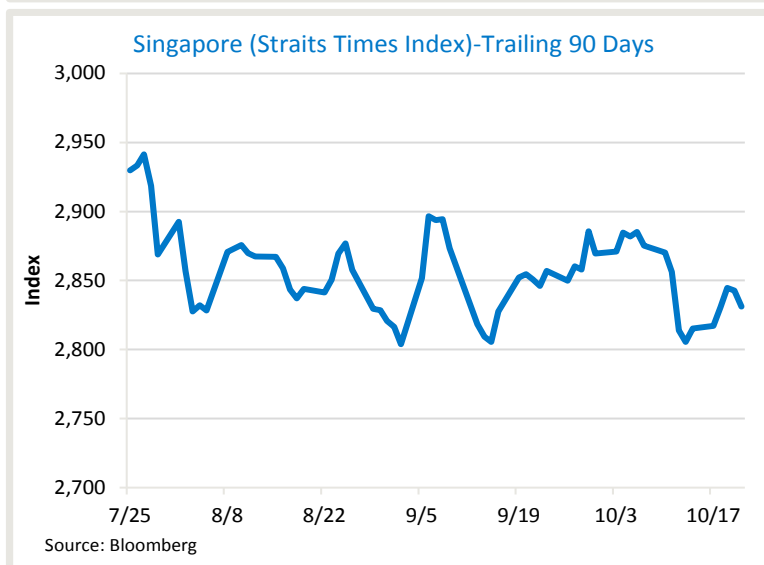
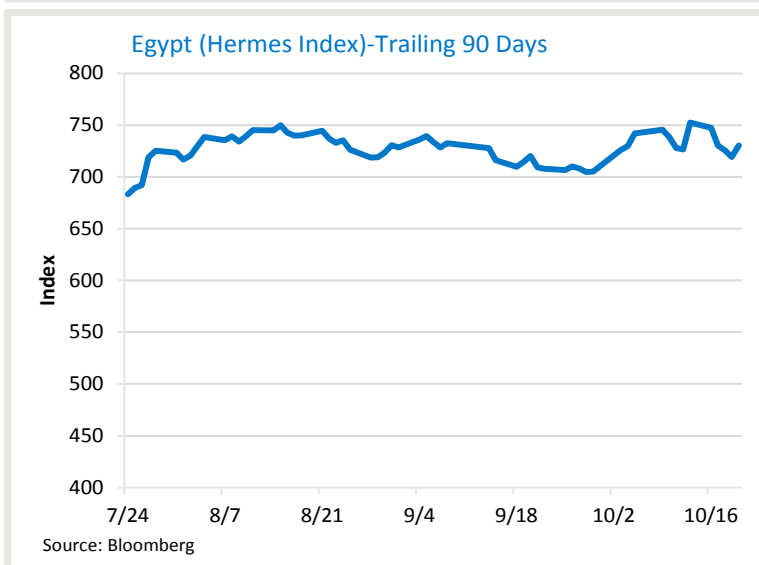
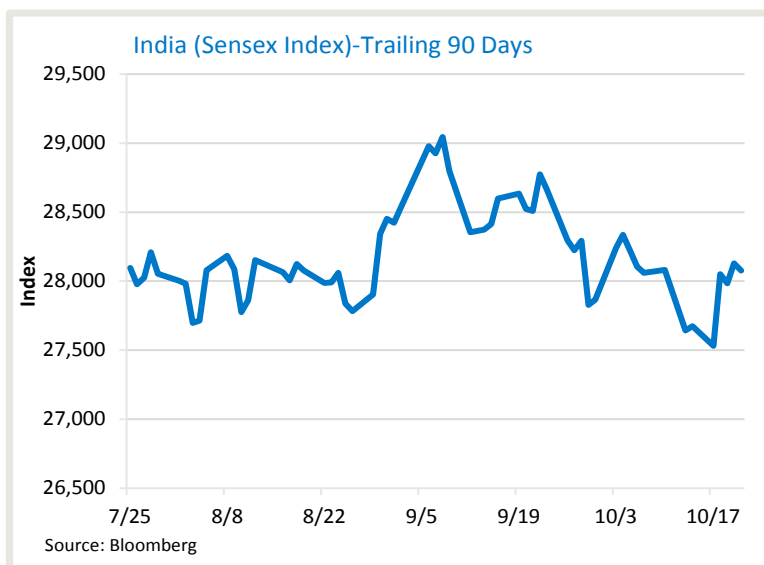
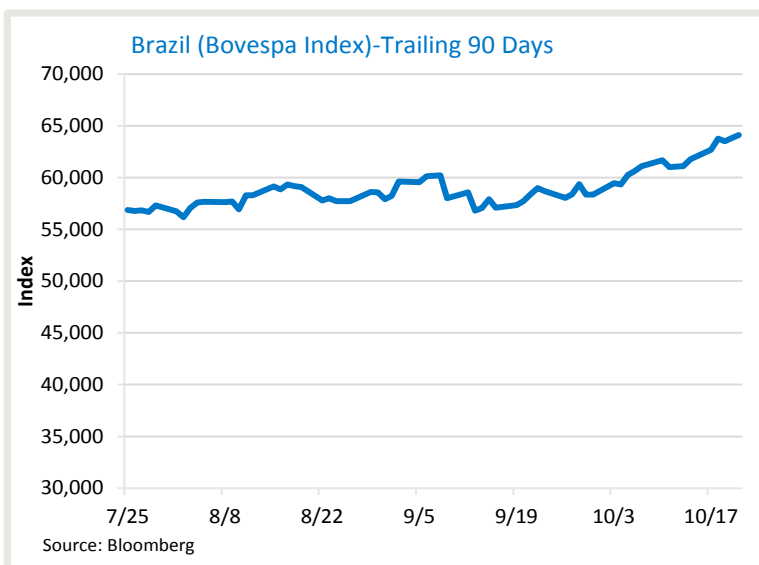
## Equities – Emerging and Frontier Markets

### EMERGING AND FRONTIER MARKET PERFORMANCE

	Last	Change	% Chg.	YTD %
Mexico IPC	48,418.40	716.95	1.5%	12.7%
Brazil (Bovespa Index)	64,108.08	2340.86	3.8%	47.9%
MICEX Index (Russia)	1,957.70	-8.69	-0.4%	11.1%
Czech Republic (Prague)	928.28	29.12	3.2%	-2.9%
Turkey (Istanbul)	78,843.69	1289.45	1.7%	9.9%
Egypt (Hermes Index)	730.43	-22.25	-3.0%	15.8%
Kenya (Nairobi 20 Index)	3,203.38	-64.54	-2.0%	-20.7%
Saudi Arabia (TASI Index)	5,651.80	-42.16	-0.7%	-18.2%
Lebanon (Beirut BLOM Index)	1,205.53	41.50	3.6%	3.1%
Palestine	515.72	-2.09	-0.4%	-3.2%

Source: Bloomberg; Index % change is based on price.

	Last	Change	% Chg.	YTD %
Hang Seng Index	23,374.40	343.10	1.5%	6.7%
India (Sensex 30)	28,077.18	403.58	1.5%	7.5%
Malaysia (KLCI Index)	1,669.98	11.01	0.7%	-1.3%
Singapore (Straits Times Index)	2,831.06	15.82	0.6%	-1.8%
Thailand (SET Index)	1,500.37	22.76	1.5%	16.5%
Indonesia (Jakarta)	5,409.24	9.36	0.2%	17.8%
Pakistan (Karachi KSE 100)	41,291.43	-172.88	-0.4%	25.8%
Vietnam (Ho Chi Minh)	684.83	-2.17	-0.3%	18.3%
Sri Lanka (Colombo)	6,447.53	-35.01	-0.5%	-6.5%
Cambodia (Laos)	1,001.40	2.67	0.3%	-14.7%

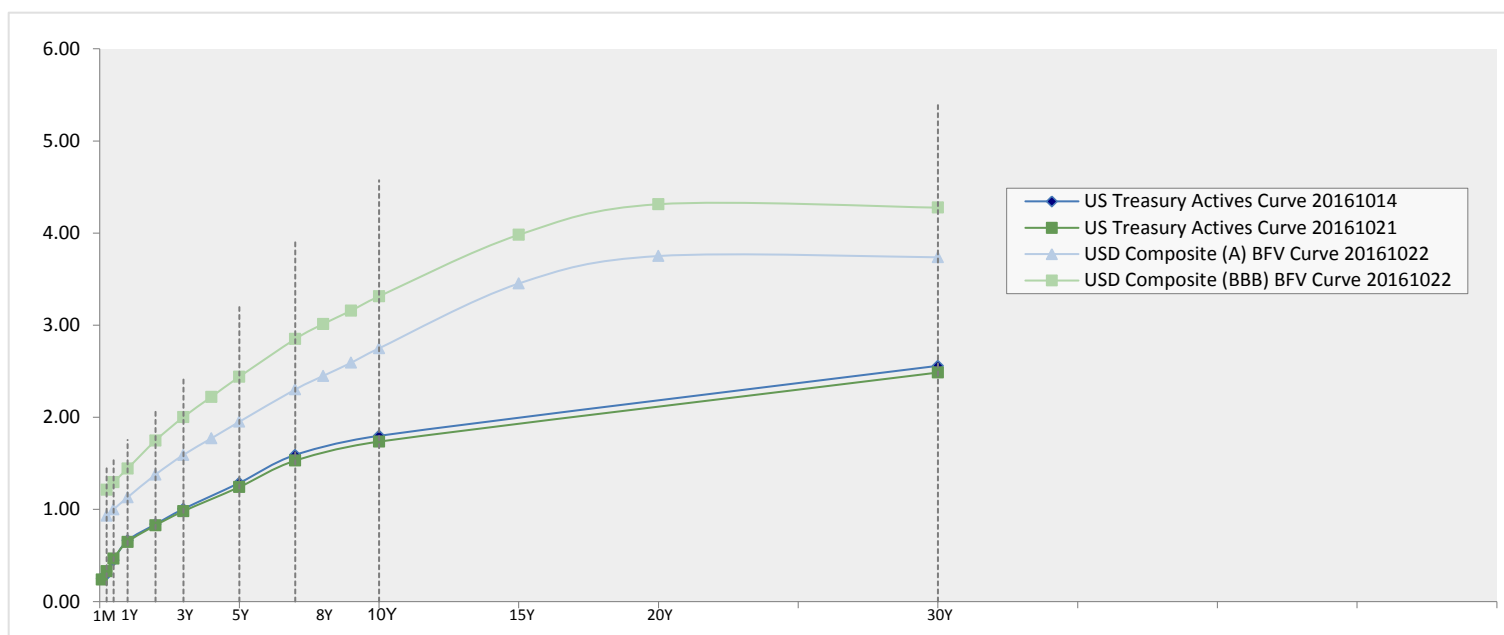


## Interest Rates

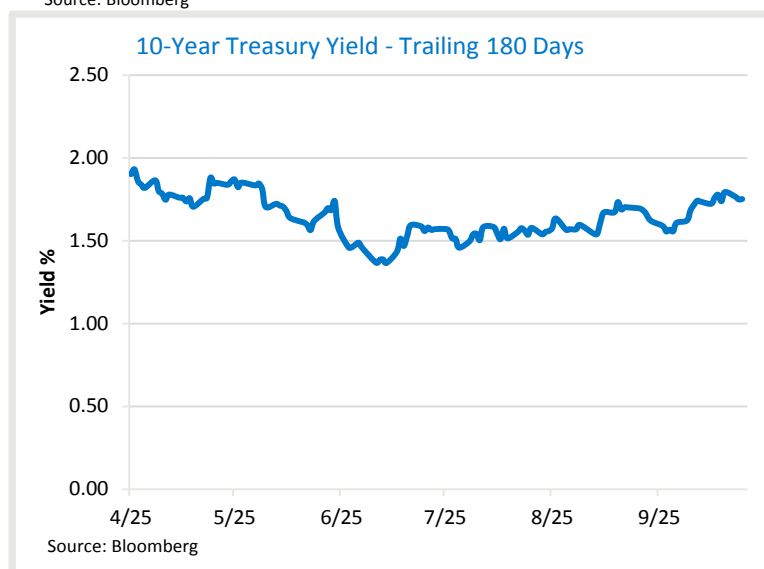
### SELECTED INTEREST RATES

	Last	Change	% Chg.	YTD %		Last	Change	% Chg.	YTD %
2-Yr. U.S. Treasury	0.83%	0 bps	NM	NM	Prime Rate	3.50%	0.00	NM	NM
5-Yr. U.S. Treasury	1.25%	-4 bps	NM	NM	Fed Funds Rate	0.50%	0.00	NM	NM
10-Yr. U.S. Treasury	1.74%	-5 bps	NM	NM	Discount Rate	1.00%	0.00	NM	NM
30-Yr. U.S. Treasury	2.49%	-6 bps	NM	NM	LIBOR (3 Mo.)	0.88%	0 bps	NM	NM
German 10-Yr. Govt.	0.00%	5 bps	NM	NM	Bond Buyer 40 Muni	3.25%	2 bps	NM	NM
France 10-Yr.	0.28%	5 bps	NM	NM	Bond Buyer 40 G.O.	3.28%	NA	NM	NM
Italy 10-Yr.	1.37%	1 bps	NM	NM	Bond Buyer 40 Rev.	3.51%	NA	NM	NM
Fed 5-Yr Fwd BE Inf.	1.57%	2 bps	NM	NM					

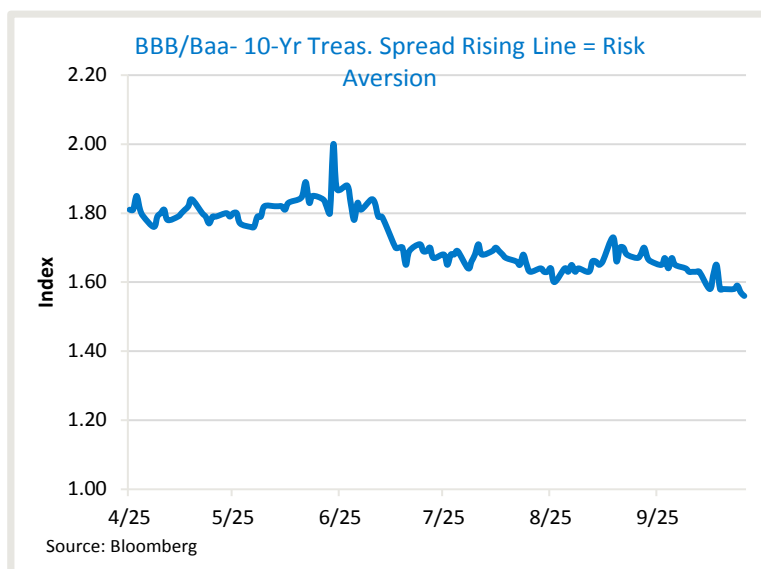
Source: Bloomberg



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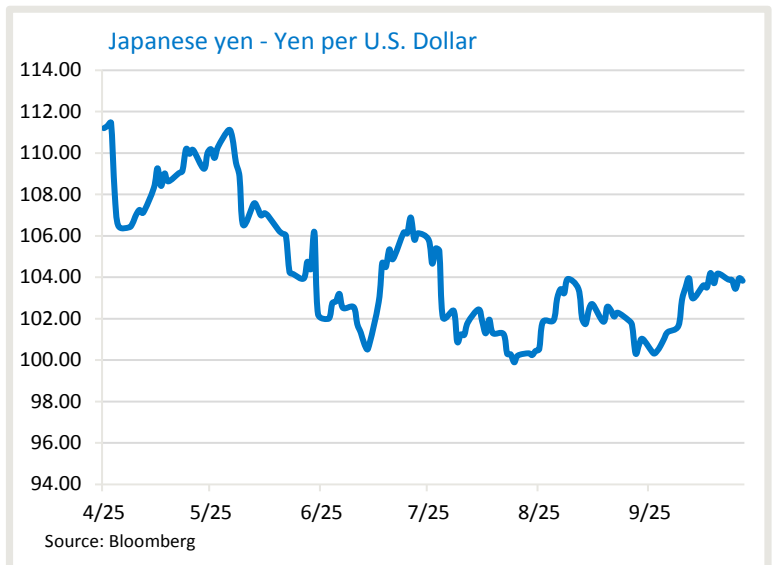
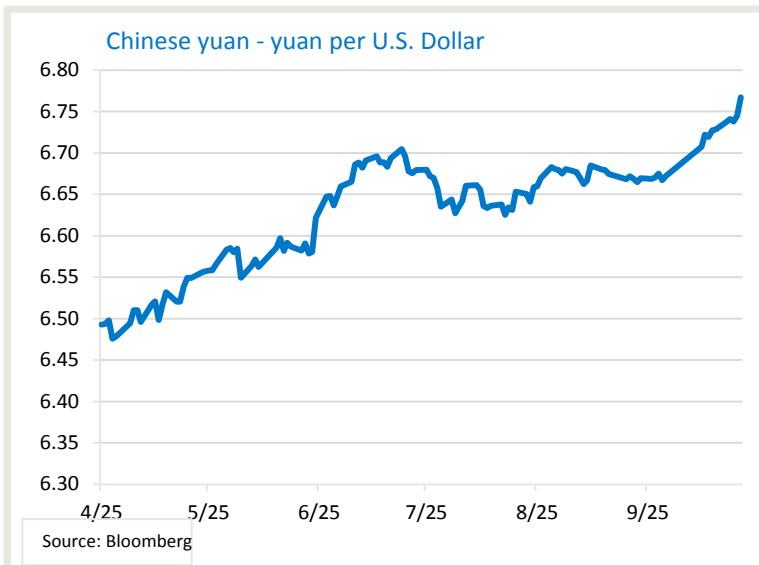
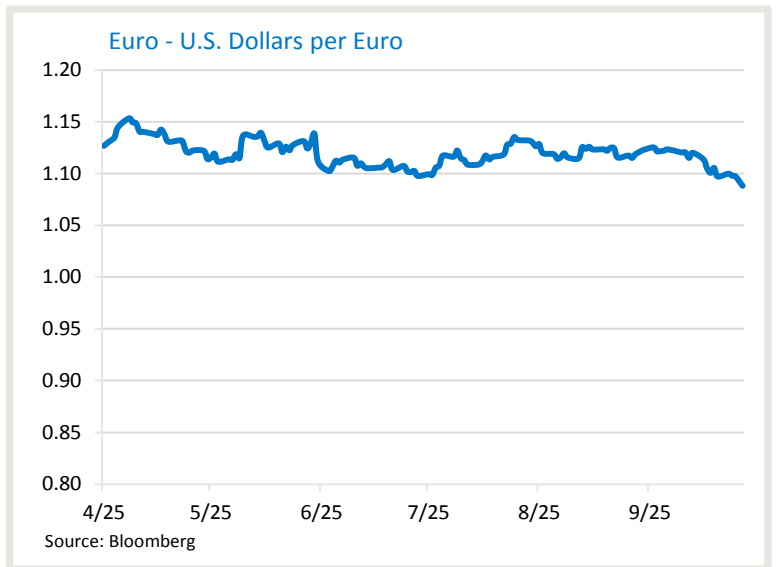
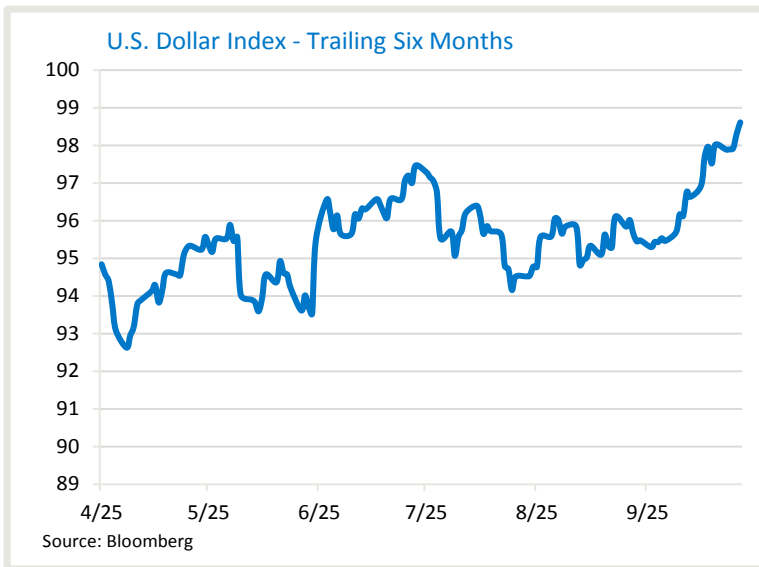
## Currencies

### SELECTED CURRENCY PERFORMANCE

	Last	Change	% Chg.	YTD %
<b>Dollar Index</b>	<b>98.64</b>	<b>0.594</b>	<b>0.61%</b>	<b>-0.02%</b>
<b>Euro</b>	<b>1.09</b>	<b>-0.009</b>	<b>-0.82%</b>	<b>0.18%</b>
<b>Japanese Yen</b>	<b>103.83</b>	<b>-0.350</b>	<b>0.34%</b>	<b>15.79%</b>
<b>British Pound</b>	<b>1.22</b>	<b>0.004</b>	<b>0.31%</b>	<b>-17.01%</b>
<b>Canadian Dollar</b>	<b>1.33</b>	<b>0.019</b>	<b>-1.44%</b>	<b>3.81%</b>

	Last	Change	% Chg.	YTD %
<b>Chinese Yuan</b>	<b>6.77</b>	<b>0.039</b>	<b>-0.57%</b>	<b>-4.04%</b>
<b>Swiss Franc</b>	<b>0.99</b>	<b>0.003</b>	<b>-0.33%</b>	<b>0.86%</b>
<b>New Zealand Dollar</b>	<b>0.72</b>	<b>0.008</b>	<b>1.06%</b>	<b>4.85%</b>
<b>Brazilian Real</b>	<b>3.16</b>	<b>-0.050</b>	<b>1.58%</b>	<b>25.49%</b>
<b>Mexican Peso</b>	<b>18.60</b>	<b>-0.405</b>	<b>2.18%</b>	<b>-7.50%</b>

Source: Bloomberg



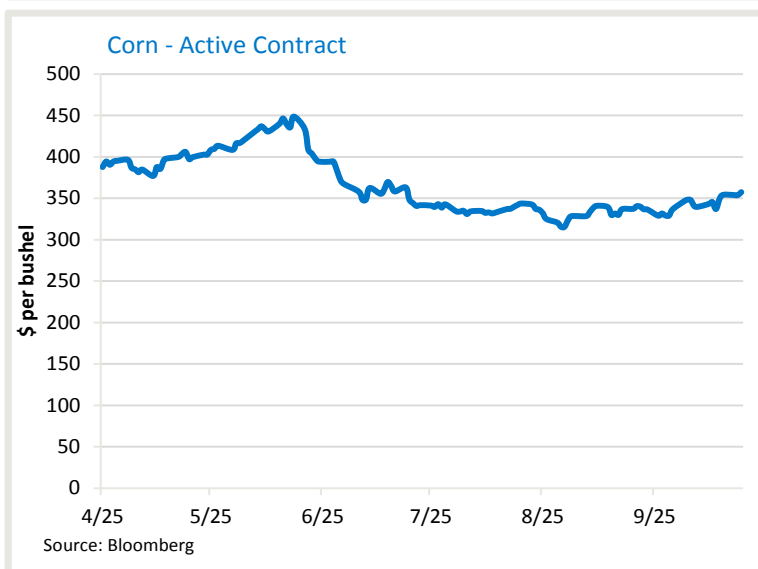
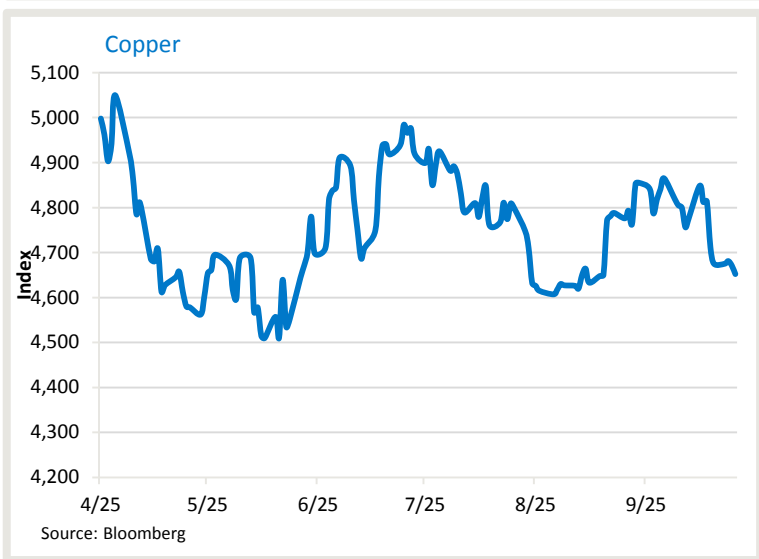
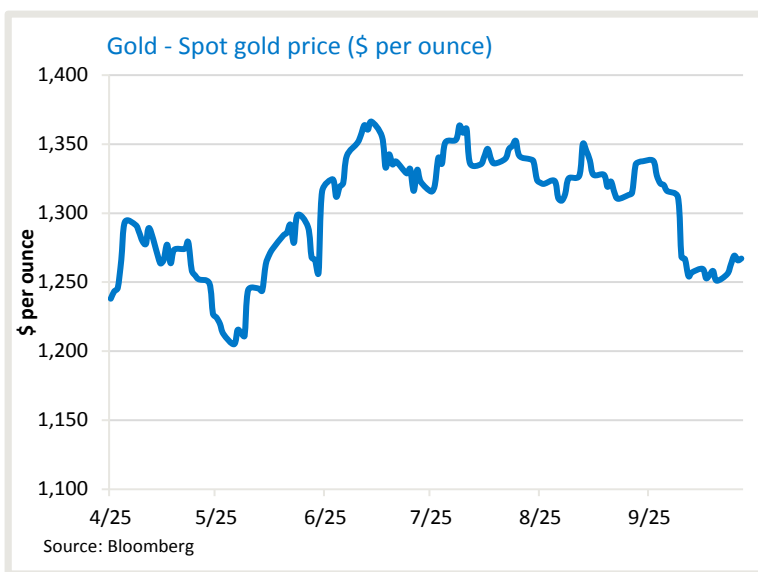
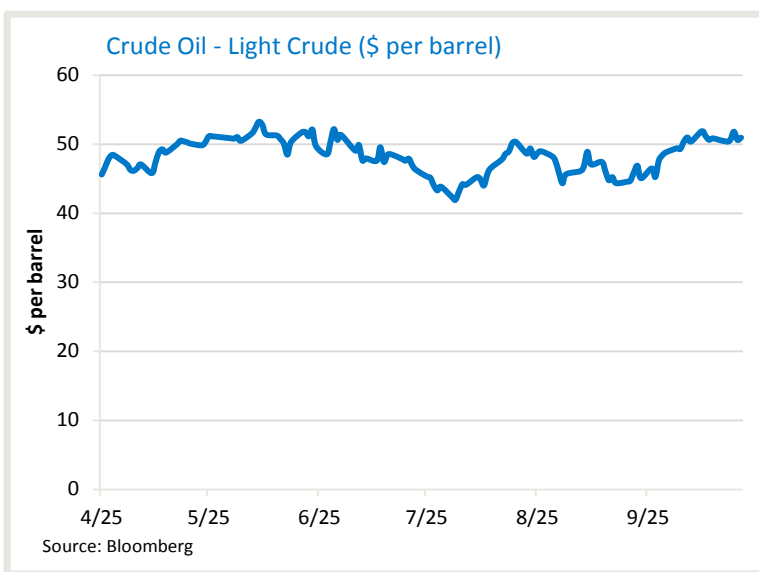
## Commodities

### SELECTED COMMODITY MARKET PERFORMANCE

	Last	Change	% Chg.	YTD %
<b>Bloomberg Comm. Idx.</b>	<b>86.11</b>	<b>-0.24</b>	<b>-0.27%</b>	<b>9.61%</b>
<b>Crude Oil</b>	<b>\$50.95</b>	<b>\$0.20</b>	<b>0.39%</b>	<b>16.24%</b>
<b>Natural Gas</b>	<b>\$2.98</b>	<b>-\$0.30</b>	<b>-9.25%</b>	<b>13.95%</b>
<b>Gasoline (\$/Gal.)</b>	<b>\$2.23</b>	<b>-\$0.02</b>	<b>-0.80%</b>	<b>11.72%</b>
<b>Heating Oil</b>	<b>157.69</b>	<b>0.89</b>	<b>0.57%</b>	<b>18.40%</b>
<b>Gold Spot</b>	<b>\$1,267.33</b>	<b>\$16.10</b>	<b>1.29%</b>	<b>19.42%</b>
<b>Silver Spot</b>	<b>\$17.56</b>	<b>\$0.12</b>	<b>0.68%</b>	<b>26.66%</b>

Source: Bloomberg; % change is based on price.

	Last	Change	% Chg.	YTD %
<b>Platinum Spot</b>	<b>\$933.70</b>	<b>-\$2.09</b>	<b>-0.22%</b>	<b>4.72%</b>
<b>Corn</b>	<b>352.50</b>	<b>-1.75</b>	<b>-0.49%</b>	<b>-7.96%</b>
<b>Wheat</b>	<b>414.50</b>	<b>-6.50</b>	<b>-1.54%</b>	<b>-18.33%</b>
<b>Soybeans</b>	<b>992.25</b>	<b>22.00</b>	<b>2.27%</b>	<b>11.68%</b>
<b>Sugar</b>	<b>22.71</b>	<b>-0.20</b>	<b>-0.87%</b>	<b>50.40%</b>
<b>Orange Juice</b>	<b>198.65</b>	<b>11.10</b>	<b>5.92%</b>	<b>36.62%</b>
<b>Aluminum</b>	<b>1,612.00</b>	<b>-63.00</b>	<b>-3.76%</b>	<b>6.97%</b>
<b>Copper</b>	<b>4,652.00</b>	<b>-23.00</b>	<b>-0.49%</b>	<b>-1.13%</b>

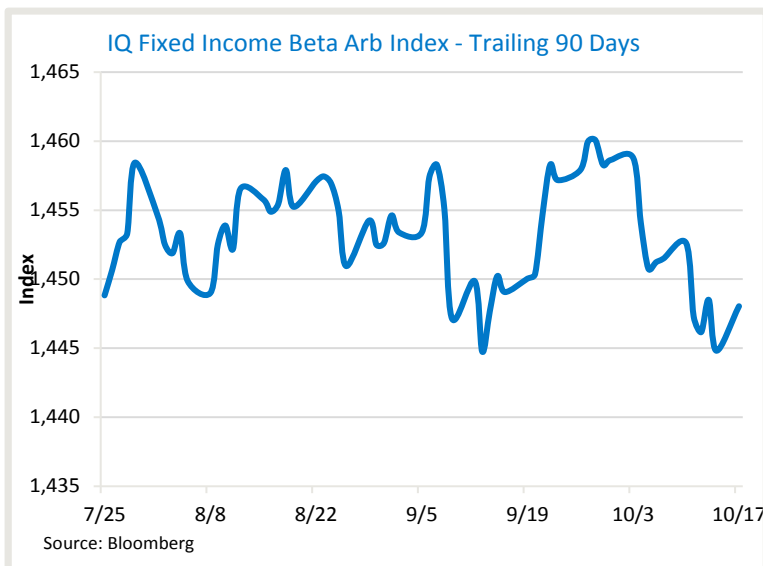
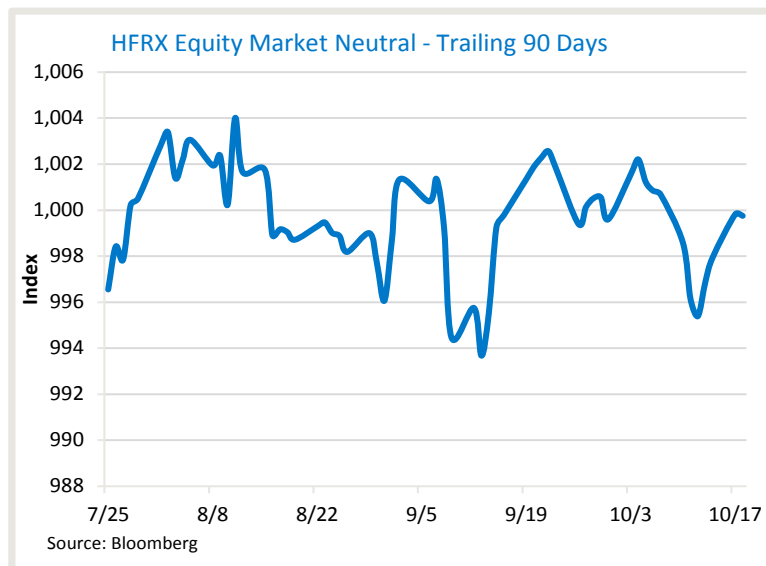
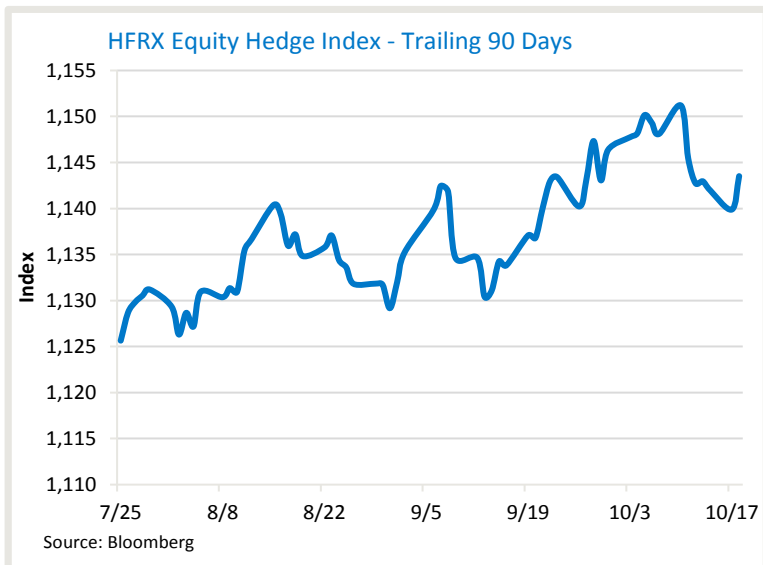
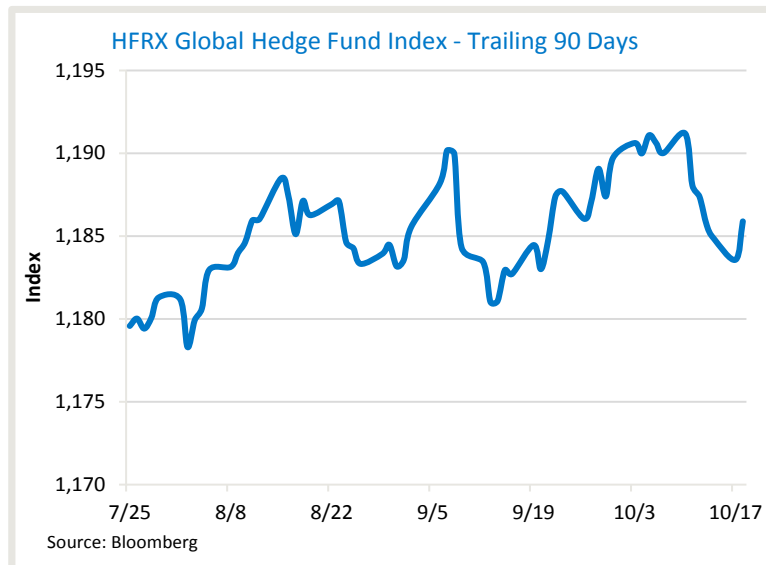


## Alternative Investments

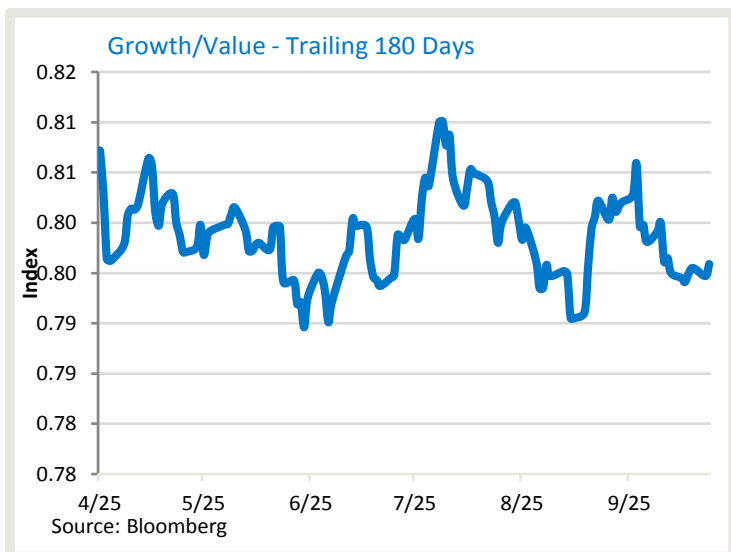
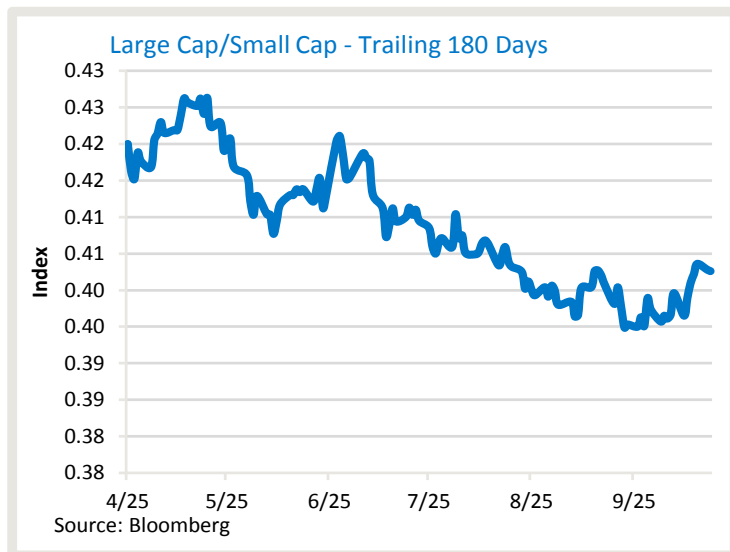
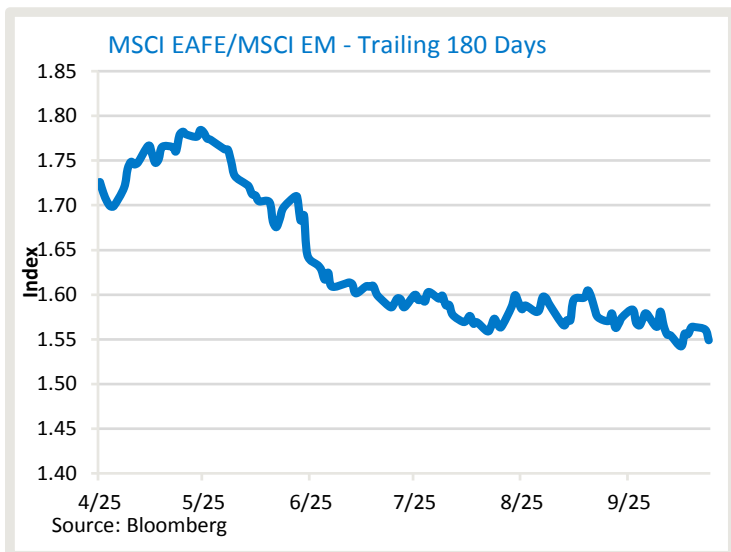
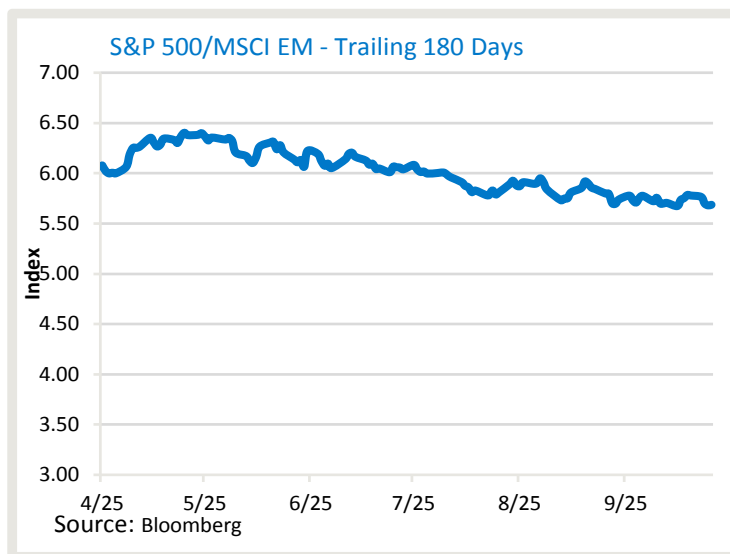
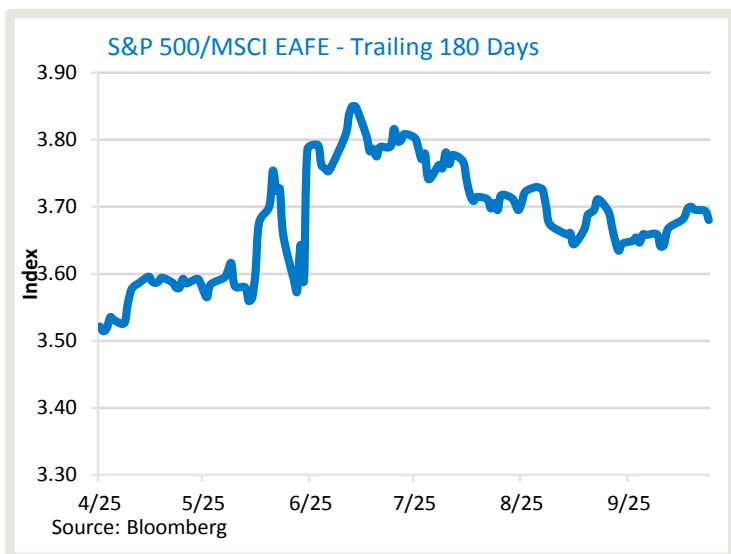
### SELECTED ALTERNATIVE INVESTMENT INDEX PERFORMANCE

	Last	Change	% Chg.	YTD %		Last	Change	% Chg.	YTD %
HFRX Global Hedge Fund Index	1189.25	4.41	0.37%	1.29%	HFRX Distressed Index	1031.74	10.79	1.06%	15.12%
HFRX Equity Market Neutral	1000.56	2.60	0.26%	-3.80%	HFRX Merger Arbitrage Index	1791.55	6.73	0.38%	3.09%
HFRX Equity Hedge Index	1146.32	4.33	0.38%	-0.69%	HFRX Convertible Arbitrage Index	738.08	1.95	0.26%	5.12%
HFRX Event-Driven Index	1510.53	9.41	0.63%	7.26%	HFRX Macro CTA Index	1149.09	1.98	0.17%	-1.76%
HFRX Absolute Return Index	1029.21	2.01	0.20%	0.38%	IQ Fixed Income Beta Arb Index	1449.23	4.42	0.31%	4.47%

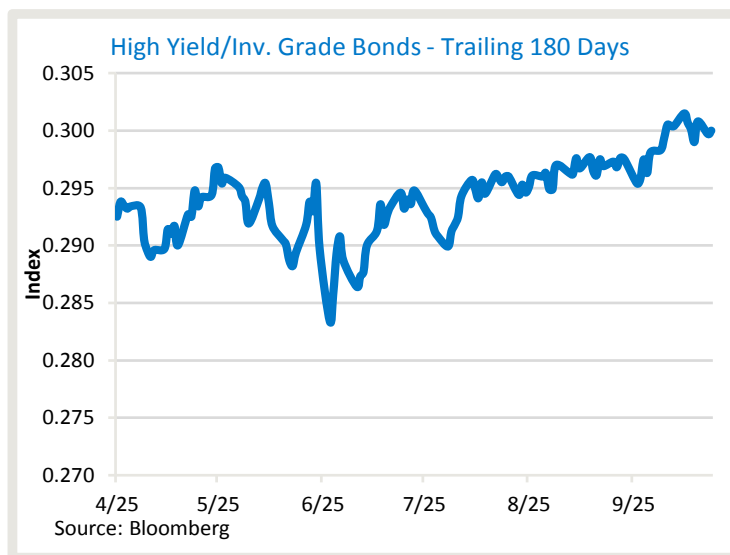
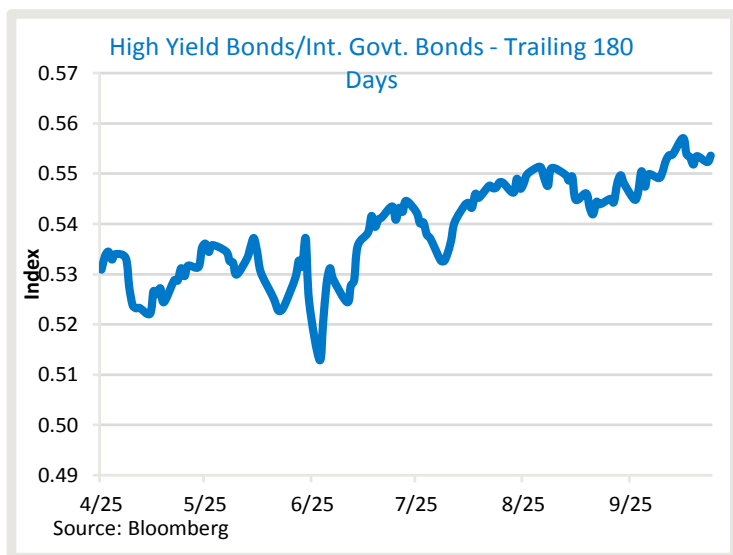
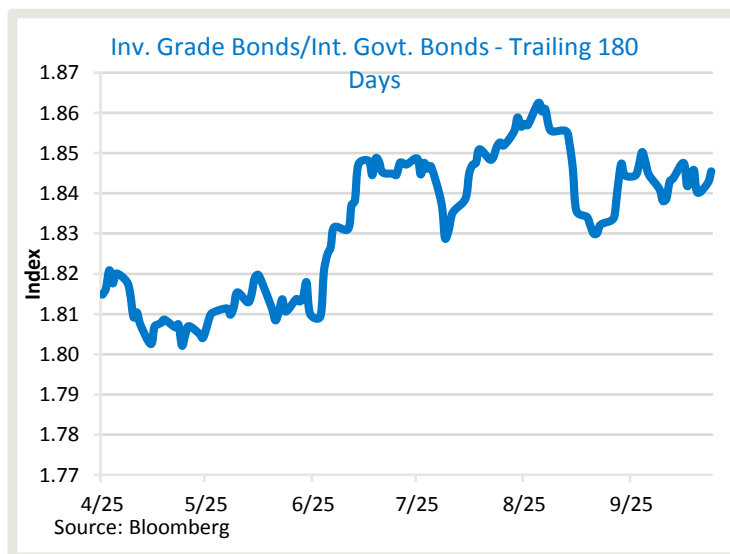
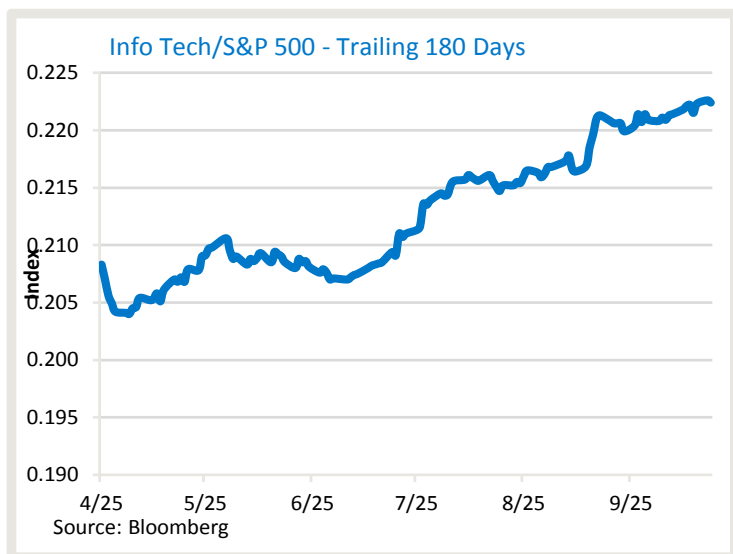
Source: Bloomberg; Index % change is based on price.



## Portfolio Construction



## Portfolio Construction (continued)



WEEKLY ASSET CLASS PERFORMANCE (Prior 12 weeks ending Thursday)

			8/4	8/11	8/18	8/25	9/1	9/8	9/15	9/22	9/29	10/6	10/13	10/20
Equity	Domestic Equity	Large Cap (R200)	-0.12%	1.01%	-0.04%	-0.70%	0.04%	0.46%	-1.32%	1.24%	-1.27%	0.56%	-1.14%	0.36%
		Small Cap (R2000)	-0.29%	1.27%	0.63%	0.26%	-0.02%	1.50%	-2.49%	2.97%	-2.03%	0.69%	-2.45%	0.33%
	Int'l. Equity	MSCI EAFE	0.32%	2.69%	-0.02%	-0.34%	-0.45%	2.27%	-3.27%	3.10%	-1.24%	-0.69%	-2.39%	1.54%
		MSCI Em. Mkts.	0.06%	3.60%	0.97%	-2.00%	-0.78%	4.06%	-4.13%	3.59%	-0.82%	0.40%	-2.88%	2.55%
Fixed Income	BarCap Agg. (AGG)	-0.15%	-0.17%	0.33%	-0.19%	-0.05%	-0.21%	-0.45%	0.48%	0.25%	-0.87%	0.00%	0.18%	
	High Yield (JNK)	-0.06%	1.22%	0.63%	-0.30%	-0.25%	0.25%	-0.99%	1.16%	-0.08%	0.11%	-0.19%	0.74%	
Commodities	Bloomberg Commodity Index	0.61%	0.08%	3.29%	-1.95%	-3.47%	3.71%	-2.43%	2.92%	-0.33%	0.34%	0.90%	-0.30%	
Alternatives	Hedge Funds (HFRX Global)	0.05%	0.45%	0.10%	-0.24%	-0.06%	0.54%	-0.59%	0.38%	0.00%	0.27%	-0.42%	0.30%	
Asset Allocation	60/40*	-0.07%	1.02%	0.24%	-0.41%	-0.13%	0.77%	-1.55%	1.54%	-0.73%	-0.15%	-1.10%	0.60%	
	48/32/20 (w/Alts.)**	-0.05%	0.90%	0.21%	-0.38%	-0.11%	0.72%	-1.36%	1.31%	-0.58%	-0.06%	-0.96%	0.54%	

Source: Bloomberg; \*60/40 portfolio = 30% Large Cap/10% Small Cap/15% EAFE/5% Emerging Markets/35% BarCap Agg./5% High Yield.

\*\*48/32/20 portfolio = 24% Large Cap/8% Small Cap/12% EAFE/4% Emerging Markets/28% BarCap Agg./4% High Yield/20% HFRX Global Index.

RELATIVE STRENGTH MATRIX (BASED ON 30-DAY RSI)

	Large Cap Core	Large Cap Growth	Large Cap Value	Mid Cap Core	Mid Cap Growth	Mid Cap Value	Small Cap Core	Small Cap Growth	Small Cap Value	Int'l. Developed	Emerging Markets	REITs	Comm.	Int. Bond	High Yield
Large Cap Core	1.00	0.99	1.00	1.02	1.07	0.99	1.00	1.04	0.96	0.99	0.89	1.08	0.93	1.03	0.87
Large Cap Growth	1.01	1.00	1.01	1.03	1.08	0.99	1.00	1.05	0.96	1.00	0.90	1.09	0.94	1.04	0.87
Large Cap Value	1.00	0.99	1.00	1.02	1.07	0.98	0.99	1.04	0.95	0.99	0.89	1.08	0.93	1.03	0.87
Mid Cap Core	0.98	0.97	0.98	1.00	1.05	0.96	0.98	1.02	0.94	0.97	0.87	1.06	0.91	1.01	0.85
Mid Cap Growth	0.93	0.93	0.94	0.95	1.00	0.92	0.93	0.97	0.89	0.93	0.83	1.01	0.87	0.96	0.81
Mid Cap Value	1.01	1.01	1.02	1.04	1.09	1.00	1.01	1.06	0.97	1.01	0.91	1.10	0.94	1.05	0.88
Small Cap Core	1.00	1.00	1.01	1.02	1.07	0.99	1.00	1.04	0.96	0.99	0.89	1.08	0.93	1.03	0.87
Small Cap Growth	0.96	0.95	0.96	0.98	1.03	0.95	0.96	1.00	0.92	0.95	0.86	1.04	0.89	0.99	0.83
Small Cap Value	1.04	1.04	1.05	1.07	1.12	1.03	1.04	1.09	1.00	1.04	0.93	1.13	0.97	1.08	0.91
Int'l. Developed	1.01	1.00	1.01	1.03	1.08	0.99	1.01	1.05	0.97	1.00	0.90	1.09	0.94	1.04	0.88
Emerging Markets	1.12	1.11	1.13	1.15	1.20	1.10	1.12	1.17	1.07	1.11	1.00	1.21	1.04	1.16	0.97
REITs	0.92	0.92	0.93	0.95	0.99	0.91	0.92	0.96	0.89	0.92	0.83	1.00	0.86	0.95	0.80
Commodities	1.08	1.07	1.08	1.10	1.15	1.06	1.07	1.12	1.03	1.07	0.96	1.16	1.00	1.11	0.94
Int. Bond	0.97	0.96	0.97	0.99	1.04	0.95	0.97	1.01	0.93	0.96	0.86	1.05	0.90	1.00	0.84
High Yield	1.15	1.14	1.16	1.18	1.23	1.13	1.15	1.20	1.10	1.14	1.03	1.24	1.07	1.19	1.00

Source: Bloomberg

The Relative Strength Matrix provides an indication of how the various asset classes have performed relative to one another over the past 30 days. A number greater than 1.0 indicates that the asset class in the far left column has outperformed the corresponding asset class in the top row over the past 30 days. A number below 1.0 means the asset class on the left has underperformed the asset class at the top. The green shading indicates outperformance, and the red shading indicates underperformance.

**Index Overview & Key Definitions**

**Fed, The Fed or FED** refers to the Federal Reserve System, the central bank of the United States. The **Federal Open Market Committee (FOMC)** is the monetary policymaking body of the Federal Reserve System. **Fed Funds Rate**, the interest rate at which a depository institution lends funds maintained at the Federal Reserve to another depository institution overnight. The **European Central Bank (ECB)** is the central bank for Europe's single currency, the euro. The ECB's main task is to maintain the euro's purchasing power and thus price stability in the euro area. The euro area comprises the 19 European Union countries that have introduced the euro since 1999. The **Gross Domestic Product (GDP)** rate is a measurement of the output of goods and services produced by labor and property located in the United States. **Basis Point(s)** is a unit that is equal to 1/100th of 1%, and is used to denote the change in a financial instrument. The basis point is commonly used for calculating changes in interest rates, equity indexes and the yield of a fixed-income security. A **separately managed account (SMA)** is an individual managed investment account offered typically by a brokerage firm through one of their brokers or financial consultants and managed by independent investment management firms (often called money managers for short) and have varying fee structures. The **Consumer Price Index (CPI)** measures the change in the cost of a fixed basket of products and services. The **Producer Price Index (PPI)** program measures the average change over time in the selling prices received by domestic producers for their output. The prices included in the PPI are from the first commercial transaction for many products and some services. **Core CPI** is an additional CPI Index, excludes energy and food item price changes, and measures the "core" or "underlying" rate of inflation. The **PCE (Personal Consumption Expenditure) Index of Prices** is a US--wide indicator of the average increase in prices for all domestic personal consumption. Using a variety of data including U.S. Consumer Price Index and Producer Price Index prices, it is derived from personal consumption expenditures; essentially a measure of goods and services targeted towards individuals and consumed by individuals.

The **Dow Jones Industrial Average (DOW or DJIA)** is an unmanaged index of 30 common stocks comprised of 30 actively traded blue chip stocks, primarily industrials and assumes reinvestment of dividends. The **S&P 500 Index** is an unmanaged index comprised of 500 widely held securities considered to be representative of the stock market in general. The **S&P/Case-Shiller Home Price Indices** measure the residential housing market, tracking changes in the value of the residential real estate market in 20 metropolitan regions across the United States. The **Nasdaq Composite Index** is a stock market index of the common stocks and similar securities listed on the NASDAQ stock market. The **US Dollar Index** is a measure of the value of the United States dollar relative to a basket of foreign currencies. It is a weighted geometric mean of the dollar's value relative to other select currencies (Euro, Japanese yen, Pound sterling, Canadian dollar, Swedish krona (SEK) & Swiss franc). The **Nikkei Index (Nikkei 225 or Nikkei)** is a stock market index for the Tokyo Stock Exchange calculated daily by the Nihon Keizai Shimbun (Nikkei) newspaper since 1950. It is a price-weighted index (the unit is yen), and the components are reviewed once a year. The **FTSE 100 Index (FTSE 100)** is a share index of the 100 companies listed on the London Stock Exchange (LSE) with the highest market capitalization. The **Bloomberg Commodity Index (formerly the Dow Jones-UBS Commodity Index)** tracks prices of futures contracts on physical commodities on the commodity markets and is designed to minimize concentration in any one commodity or sector (currently 22 commodity futures in seven sectors). The **Barclays Capital US Credit Index** is an unmanaged index considered representative of publicly issued, SEC-registered US corporate and specified foreign debentures and secured notes. The **Barclays Capital US Aggregate Bond Index** is a market capitalization-weighted index of investment-grade, fixed-rate debt issues, including government, corporate, asset-backed, and mortgage-backed securities, with maturities of at least one year. The **Barclays Capital US Corporate High Yield Index** covers the USD-denominated, non-investment grade, fixed-rate, taxable corporate bond market. Securities are classified as high-yield if the middle rating of Moody's, Fitch and S&P is Ba1/BB+/BB+ or below. The index may include emerging market debt. The **Barclays Capital Municipal Bond Index** is an unmanaged index comprised of investment-grade, fixed-rate municipal securities representative of the tax-exempt bond market in general. The **Barclays Capital US Treasury Total Return Index** is an unmanaged index of public obligations of the US Treasury with a remaining maturity of one year or more. The **Barclays Capital Global Aggregate ex-U.S. Index** is a market capitalization-weighted index, meaning the securities in the index are weighted according to the market size of each bond type. Most U.S. traded investment grade bonds are represented. Municipal bonds, and Treasury Inflation-Protected Securities are excluded, due to tax treatment issues. The index includes Treasury securities, Government agency bonds, Mortgage-backed bonds, Corporate bonds, and a small amount of foreign bonds traded in U.S. The **Barclays Capital U.S. 5-10 Year Corporate Bond Index** measures the investment return of U.S. dollar denominated, investment-grade, fixed rate, taxable securities issued by industrial, utility, and financial companies with maturities between 5 and 10 years. Treasury securities, mortgage-backed securities (MBS) foreign bonds, government agency bonds and corporate bonds are some of the categories included in the index. The **Barclays Capital U.S. Corporate High-Yield Index** is composed of fixed-rate, publicly issued, non-investment grade debt. The **Barclays Capital U.S. Corporate 5-10 Year Index** includes U.S. dollar-denominated, investment-grade, fixed-rate, taxable securities issued by industrial, utility, & financial companies, with maturities between 5 & 10 years. The **DJ-UBS Commodity Index Total Return SM** measures the collateralized returns from a basket of 19 commodity futures contracts representing the energy, precious metals, industrial metals, grains, softs and livestock sectors. The **Russell 1000 Index** is a market capitalization-weighted benchmark index made up of the 1000 largest U.S. companies in the Russell 3000 Index. The **Russell 1000 Growth Index** is an unmanaged index considered representative of large-cap growth stocks. The **Russell 1000 Value Index** is an unmanaged index considered representative of large-cap value stocks. The **Russell 2000 Index** is an unmanaged index considered representative of small-cap stocks. The **Russell 2000 Growth Index** is an unmanaged index considered representative of small-cap growth stocks. The **Russell 2000 Value Index** is an unmanaged index considered representative of small-cap value stocks. The **Russell 3000 Index** is an unmanaged index considered representative of the US stock market. The **Russell Midcap Index** is a subset of the Russell 1000 Index. It includes approximately 800 of the smallest securities based on a combination of their market cap and current index membership. The **Russell Midcap Growth Index** is an unmanaged index considered representative of mid-cap growth stocks. The **Russell Midcap Value Index** is an unmanaged index considered representative of mid-cap value stocks. The **HFRX Indices** are a series of benchmarks of hedge fund industry performance which are engineered to achieve representative performance of a larger universe of hedge fund strategies. Hedge Fund Research, Inc. employs the HFRX Methodology (UCITS compliant), a proprietary and highly quantitative process by which hedge funds are selected as constituents for the HFRX Indices. The **University of Michigan Consumer Sentiment Index (MCSI)** is a survey of consumer confidence conducted by the University of Michigan using telephone surveys to gather information on consumer expectations regarding the overall economy. The **CBOE Volatility Index (VIX)** is an up-to-the-minute market estimate of expected volatility that is calculated by using real-time S&P 500 Index option bid/ask quotes. The Index uses nearby and second nearby options with at least 8 days left to expiration and then weights them to yield a constant, 30-day measure of the expected volatility of the S&P 500 Index. The **MSCI EAFE Index** is designed to measure the equity market performance of developed markets outside of the U.S. & Canada. The **MSCI EAFE Growth Index** is an unmanaged index considered representative of growth stocks of Europe, Australasia and the Far East. The **MSCI EAFE Value Index** is an unmanaged index considered representative of value stocks of Europe, Australasia and the Far East. The **MSCI EM (Emerging Markets) Latin America Index** is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of emerging markets in Latin America. The **MSCI World ex-U.S. Index** captures large and mid-cap representation across 22 of 23 Developed Markets (DM) countries - excluding the US. With 1,002 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country. The **MSCI Japan Index** is designed to measure the performance of the large and mid-cap segments of the Japanese market. With 320 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in Japan. The **MSCI Emerging Markets Index** is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets. The **MSCI Europe Index** is an unmanaged index considered representative of stocks of developed European countries. The **MSCI Pacific Index** is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of the developed markets in the Pacific region. The **Barclays Intermediate US Government/Credit Bond Index** is a market capitalization-weighted index of investment-grade, fixed-rate debt issues, including Treasuries, government-related and U.S. corporate securities, with maturities of at least one year and less than 10 years. The **Philadelphia Fed Manufacturing Index** is a regional Federal Reserve Bank index measuring changes in business growth and is constructed from a survey of participants who voluntarily answer questions regarding the direction of change in their overall business activities. The **ISM Non-Manufacturing Index** is an index based on surveys of more than 400 non-manufacturing firms' purchasing and supply executives, within 60 sectors across the nation, by the Institute of Supply Management (ISM) and also tracks economic data, like the ISM Non-Manufacturing Business Activity Index. A composite diffusion index is created based on the data from these surveys that monitors economic conditions of the nation. The **Housing Market Index (HMI)** is based on a monthly survey of NAHB members designed to take the pulse of the single-family housing market. In May 2007, **Markit's U.S. PMI** research was extended out to cover producers of metal goods. In October 2009, Markit's U.S. Manufacturing PMI survey panel was extended further to cover all areas of U.S. manufacturing activity. The **NY Empire State Index** is an index based on the monthly survey of manufacturers in New York State - known as the Empire State Manufacturing Survey - conducted by the Federal Reserve Bank of New York. The headline number for the NY Empire State Index refers to the survey's main index, which summarizes general business conditions in New York State.

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Envestnet, Inc. (NYSE: ENV) is a leading provider of unified wealth management technology and services to investment advisors. Our open-architecture platforms unify and fortify the wealth management process, delivering unparalleled flexibility, accuracy, performance and value. Envestnet solutions enable the transformation of wealth management into a transparent, objective, independent and fully-aligned standard of care, and empower advisors to deliver better results.

Envestnet's Advisor Suite® software empowers financial advisors to better manage client outcomes and strengthen their practice. Envestnet provides institutional-quality research and advanced portfolio solutions through our Portfolio Management Consultants group, Envestnet | PMC®. Envestnet | Tamarac provides leading rebalancing, reporting and practice management software.

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