

#### **Chart of the Week**



# **Weekly Highlights**

- Domestic stocks ended higher after an extremely volatile week in the markets. Monday marked the peak of the volatility, with the CBOE Volatility Index (VIX) spiking as high as 46.34; the Dow experiencing its largest ever intra-day point decline; and, circuit breakers halting several trades amidst large swings in ETF prices. The equity markets subsequently recovered on Wednesday following a 6-day losing streak after positive indications on employment and housing.
- NY Federal Reserve Chief William Dudley signaled that a September interest rate was "less compelling," amidst heightened global concerns in Europe and China.
- **U.S. GDP growth** expanded 3.7% in the second quarter—handily beating the 2.3% estimate in July.

# **Talking Points**

- Among equities, small caps performed largely in-line with large caps—with both advancing approximately 1.0% for the week. Growth stocks outperformed value stocks, and domestic stocks outperformed international equities. Emerging markets outperformed developed markets.
- Treasury prices declined during the week. The yield on the 10-year T-note increased slightly from last week, bolstered in part by a strong reading on U.S. durable goods.
- Commodity indices were higher, driven by an increase in the price of crude oil. Previous metals were lower and grains were essentially flat.
- The dollar increased slightly this week in response to strong economic readings and the Federal Reserve's decreased probability of a September rate hike.
- Among economic data released this week, initial jobless claims fell to 271,000, signaling improved employment growth. New home sales posted a 7-month gain in July, and Durable Goods orders beat July forecasts. Second quarter U.S. GDP growth was revised to 3.7%, up from the 2.3% estimate forecasted last month.

### **MARKET DASHBOARD**

	Look Duice	Chausa	0/ Ch =	VTD 0/
	Last Price	Change	% Chg.	YTD %
S&P 500	1,988.87	17.98	0.91%	-3.4%
Dow Industrials	16,643.01	183.26	1.11%	-6.6%
Nasdaq	4,828.32	122.29	2.60%	1.9%
Russell 2000	1,162.91	6.13	0.53%	-3.5%
Euro Stoxx Index	363.28	2.00	0.55%	6.1%
Shanghai Composite	3,232.35	-275.39	-7.85%	-0.1%
Russell Global	1,650.96	-1.14	-0.07%	-4.5%

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

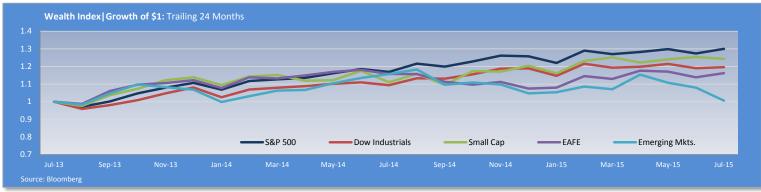
	Last Price	Change	% Chg.	YTD %
Russell Global EM	2,540.43	1.14	0.04%	-14.7%
10-Year US Treas.	2.19	13 bps	NM	NM
DJ UBS Comm. ldx.	89.36	1.55	1.77%	-14.3%
Gold	\$1,134.16	-\$26.53	-2.29%	-4.2%
Crude Oil	\$45.24	\$4.83	11.94%	-22.1%
Dollar Index	96.09	1.06	1.12%	6.4%
VIX Index	26.05	-1.98	-7.06%	35.7%

S&P 500 Index: Trailing 180 Days	
2200	
2150	
2100	
2050	
2000 -	
1950 -	
1900 -	V
1850 -	
1800 -	
1750 -	
1700	
3/2 3/16 3/30 4/13 4/27 5/11 5/25 6/8 6/22 7/6 7/20 8/3	8/17
Source: Bloomberg	

	One Week		YTD			
	Value		Growth	Value		Growth
L	0.38%	1.08%	1.73%	-7.99%	-3.24%	1.54%
	0.01%	0.54%	1.06%	-5.22%	-2.53%	0.04%
S	-0.18%	0.53%	1.22%	-8.22%	-3.47%	1.35%
	Source: B	loomberg				

Sector Performance: S&P/Global Industry Classification Sectors (GICS) % Wgt in Week % **S&P 500** Chg. YTD % Chg. **Consumer Discretionary** 12.9 .65% **Consumer Staples** 9.7 0.32% -24% 7.1 3.65% -18.3% Energy 16.6 -4.7% **Financials** 0.52% **Health Care** 15.4 0.20% 4.7% **Industrials** 10.0 0.52% -8.6% **Information Technology** 19.9 3.09% -22% Materials 2.9 **0**.87% -10.6% -3.7% **Telecom Services** 2.4 0.24% -9.3% Utilities 3.0 4.35% Source: Bloomberg





#### THE ECONOMY AND MARKETS

## Ground Hog Mon-Day: Has the U.S. economy seen its shadow?

Following a tumultuous week in the markets, many investors are asking themselves whether the sharp drawdowns experienced earlier in the week mark the beginning of a recession, or merely represent a great buying opportunity. As I sit here watching the indices move up and down nearly in tandem, Warren Buffet's sage words come to mind, "Be fearful when others are greedy and greedy when others are fearful."

The VIX crossed 30 on Monday, reaching an intraday high of 46.34 before finally closing at 43.26. It has since retreated, but has hovered around the 30-mark for the remainder of the week. Widely considered an indicator of the fear level in the markets, the VIX offers observers a glimpse into the number of investors purchasing protection against market declines. The higher it trades up, the greater the fear of market participants. Contrarians largely interpret it as a positive signal when it trends above 20, and 30 is often thought to be a positive indication of the market's trajectory for the next six months.

And yet, a great deal of uncertainty still surrounds us. What of China? What of the turmoil in Greece? Will the Fed move forward with raising rates amidst all the global uncertainty? Although a rate hike from the near-zero rate environment that the U.S. has been operating in is inevitable, September now seems unlikely. On Wednesday, Federal Reserve Bank of New York President William Dudley described the probability of a September hike as "less compelling." Even withstanding a rate hike, monetary policy in the U.S. and Europe remains very accommodative. And, although China's slowdown and currency devaluation have been center stage for the past few weeks, the fallout appears to be fairly self-contained. China is an exporter (rather than an importer) to most major economies, and Chinese consumption accounts for less than 1% of U.S. GDP exports. And Greece, whose economy is the size of Detroit, is even less consequential.

With 2008 still fresh in investors' memories, it is no wonder that Monday felt like a sort of doomsday—the Dow posted its largest ever intra-day index point decline, and many ETFs fell between 30%-50%. However, we can take comfort in that markets have already started to reverse course. Housing data shows that U.S. home prices still are rising at a moderate pace, and new home sales posted a new seven-month high in July. U.S. GDP growth expanded 3.7% in the second quarter, well above the earlier estimate of 2.3%. Initial Jobless claims fell to 271,000 from 277,000 the week prior. The major indices traded up on Wednesday after several positive business readings following a six-day losing streak: the S&P 500 gained 3.9%, the Dow increased 4.0%, and the Nasdaq soared 4.2%. Thursday's strides also were positive, although Friday's open subsequently gave back some of these gains.

And yet, I would be remiss if I failed to point out that amidst the short-term volatility, certain strategies fared better than others. Following a six-year bull market, alternatives largely have fallen out of favor. However, this week's events have reinforced the importance of diversification within any portfolio. Several alternatives and trend-following strategies profited this week, partially insulating portfolios and dampening the effects of short-term volatility for those investors who were diversified properly.

Monday's performance is a good example. In contrast to significantly larger losses in the equity markets (S&P 500 -3.9%; Dow -3.6%; and Nasdaq -3.8%), alternative strategies were down, on average, only a fraction of their broader market peers (HFRX Global Hedge Fund Index -1.1%; HFRX Equal Weighted Strategies -0.8%; and HFRX Absolute Return -0.2%)—reinforcing the value behind less-correlated sources of return.

Cynthia Crandall VP, Senior Investment Analyst

## **ECONOMIC DATA**



Source: Bloomberg

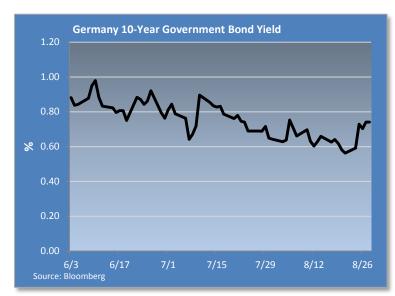
## **EUROZONE**

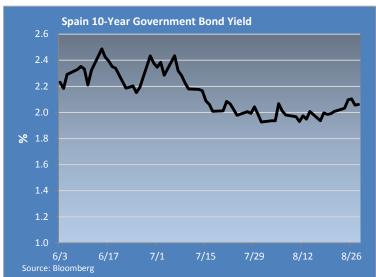
#### SELECTED EUROPEAN SOVEREIGN YIELD PERFORMANCE

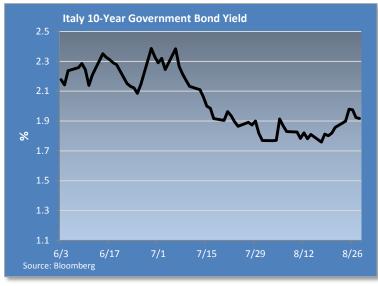
	Last	Change	% Chg.	YTD %
Germany 10-Yr. Govt.	0.74	-18 bps	NM	NM
Greece 10-Yr. Govt.	9.02	25 bps	NM	NM
Italy 10-Yr. Govt.	1.92	-5 bps	NM	NM
Spain 10-Yr. Govt.	2.06	-5 bps	NM	NM
Belgium 10-Yr. Govt.	1.09	-12 bps	NM	NM

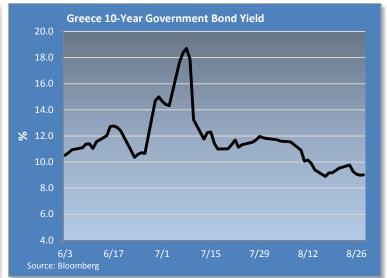
	Last	Change	% Chg.	YTD %
France 10-Yr. Govt.	1.09	-12 bps	NM	NM
Ireland 10-Yr. Govt.	1.39	-15 bps	NM	NM
Portugal 10-Yr. Govt.	2.60	2 bps	NM	NM
Netherlands 10-Yr. Govt.	0.94	-14 bps	NM	NM
U.K. 10-Yr. Govt.	1.96	-13 bps	NM	NM

Source: Bloomberg Basis points (bps)









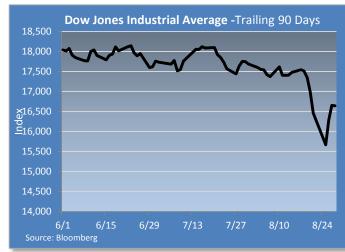
# **EQUITIES**

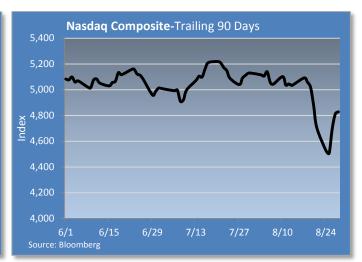
#### WORLD MARKET PERFORMANCE

	Last	Change	% Chg.	YTD %
S&P 500	1,988.87	17.98	0.91%	-3.40%
Dow Industrials	16,643.01	183.26	1.11%	-6.62%
Nasdaq Composite	4,828.32	122.29	2.60%	1.95%
Russell Global	1,650.96	-1.14	-0.07%	-4.5%
Russell Global EM	2,540.43	1.14	0.04%	-14.7%
S&P/TSX (Canada)	13,865.07	391.40	2.90%	-5.24%
Mexico IPC	43,290.86	1127.04	2.67%	0.34%
Brazil Bovespa	47,153.87	1434.23	3.14%	-5.71%
Euro Stoxx 600	363.28	2.00	0.55%	6.05%
FTSE 100	6,247.94	60.29	0.97%	-4.85%
IBEX 35 (Spain)	10,352.90	81.20	0.79%	0.71%

	Last	Change	% Chg.	YTD %
Swiss Market Index	8,785.10	-13.47	-0.15%	-2.21%
CAC 40 Index (France)	4,675.13	44.14	0.95%	9.42%
DAX Index (Germany)	10,298.53	174.01	1.72%	5.03%
Irish Overall Index	6,309.18	135.19	2.19%	20.76%
Nikkei 225	19,136.32	-299.51	-1.54%	9.66%
Hang Seng Index	21,612.39	-797.23	-3.56%	-8.44%
Shanghai Composite	3,232.35	-275.39	-7.85%	-0.07%
Kospi Index (S. Korea)	1,937.67	61.60	3.28%	1.15%
Taiwan Taiex Index	8,019.18	232.26	2.98%	-13.84%
Tel Aviv 25 Index	1,596.56	-98.55	-5.81%	8.98%
MICEX Index (Russia)	1,719.16	55.85	3.36%	23.10%

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









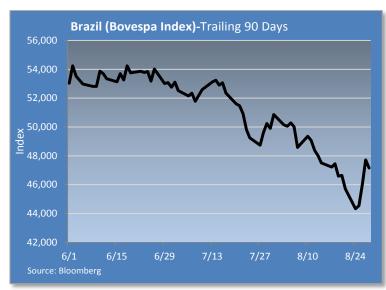
# **EQUITIES – EMERGING AND FRONTIER MARKETS**

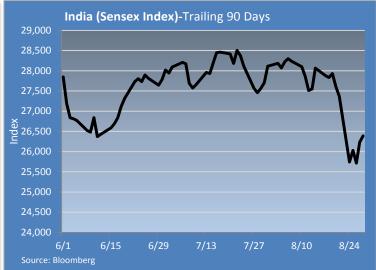
#### EMERGING AND FRONTIER MARKET PERFORMANCE

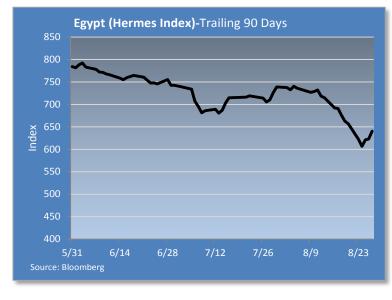
	Last	Change	% Chg.	YTD %
Mexico IPC	43,290.86	1127.04	2.7%	0.3%
Brazil (Bovespa Index)	47,153.87	1434.23	3.1%	-5.7%
MICEX Index (Russia)	1,719.16	55.85	3.4%	23.1%
Czech Republic (Prague)	1,012.59	20.57	2.1%	7.0%
Turkey (Istanbul)	74,641.60	843.83	1.1%	-12.9%
Egypt (Hermes Index)	640.47	-16.36	-2.5%	-23.2%
Kenya (Nairobi 20 Index)	4,101.67	-303.62	-6.9%	-19.8%
Saudi Arabia (TASI Index)	7,604.32	-408.52	-5.1%	-8.7%
Lebanon (Beirut BLOM Index)	1,147.27	-21.64	-1.9%	-2.0%
Palestine	480.21	-7.08	-1.5%	-4.5%

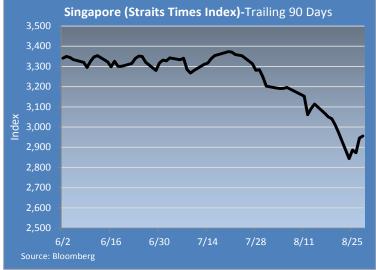
	Last	Change	% Chg.	YTD %
Hang Seng Index	21,612.39	-797.23	-3.6%	-8.4%
India (Sensex 30)	26,392.38	-973.69	-3.6%	-4.0%
Malaysia (KLCI Index)	1,612.74	38.07	2.4%	-8.4%
Singapore (Straits Times Index)	2,955.94	-15.07	-0.5%	-12.2%
Thailand (SET Index)	1,365.94	0.33	0.0%	-8.8%
Indonesia (Jakarta)	4,446.20	110.25	2.5%	-14.9%
Pakistan (Karachi KSE 100)	34,447.47	-72.30	-0.2%	7.2%
Vietnam (Ho Chi Minh)	570.87	14.57	2.6%	4.6%
Sri Lanka (Colombo)	7,350.52	-120.65	-1.6%	0.7%
Cambodia (Laos)	1,251.41	-36.32	-2.8%	-11.5%

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









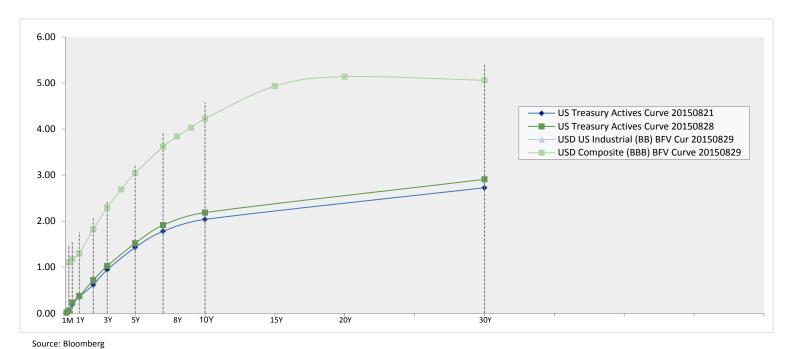
## **INTEREST RATES**

#### **SELECTED INTEREST RATES**

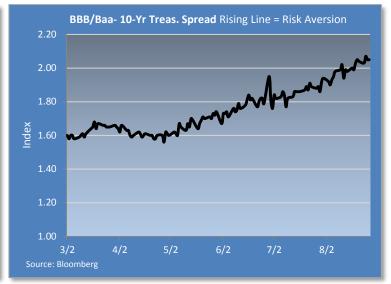
	Last	Change	% Chg.	YTD %
2-Yr. U.S. Treasury	0.72%	-1 bps	NM	NM
5-Yr. U.S. Treasury	1.53%	9 bps	NM	NM
10-Yr. U.S. Treasury	2.19%	13 bps	NM	NM
30-Yr. U.S. Treasury	2.91%	16 bps	NM	NM
German 10-Yr. Govt.	0.74%	-18 bps	NM	NM
France 10-Yr.	1.09%	-12 bps	NM	NM
Italy 10-Yr.	1.92%	-5 bps	NM	NM
Fed 5-Yr Fwd BE Inf.	1.89%	5 bps	NM	NM

	Last	Change	% Chg.	YTD %
Prime Rate	3.25%	0.00	NM	NM
Fed Funds Rate	0.25%	0.00	NM	NM
Discount Rate	0.75%	0.00	NM	NM
LIBOR (3 Mo.)	0.32%	0 bps	NM	NM
Bond Buyer 40 Muni	4.12%	11 bps	NM	NM
Bond Buyer 40 G.O.	3.79%	NA	NM	NM
Bond Buyer 40 Rev.	4.20%	NA	NM	NM

Source: Bloomberg







## **CURRENCIES**

## **SELECTED CURRENCY PERFORMANCE**

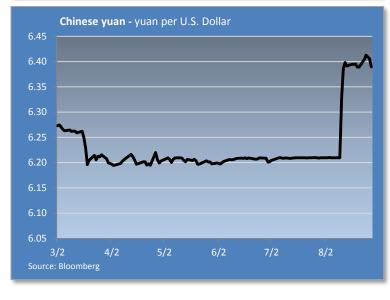
	Last	Change	% Chg.	YTD %
Dollar Index	96.09	1.061	1.12%	6.43%
Euro	1.12	-0.020	-1.74%	-7.52%
Japanese Yen	121.43	-0.630	0.52%	-1.34%
British Pound	1.54	-0.030	-1.90%	-1.16%
Canadian Dollar	1.32	0.003	-0.20%	-12.06%

	Last	Change	% Chg.	YTD %
Chinese Yuan	6.39	0.001	-0.01%	-2.88%
Swiss Franc	0.96	0.016	-1.63%	3.33%
<b>New Zealand Dollar</b>	0.65	-0.022	-3.28%	-17.06%
Brazilian Real	3.58	0.084	-2.33%	-25.83%
Mexican Peso	16.76	-0.229	1.36%	-11.98%

Source: Bloomberg









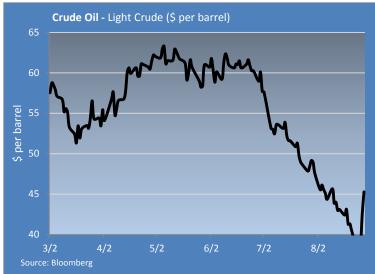
## **COMMODITIES**

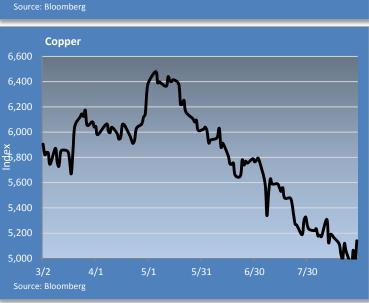
## SELECTED COMMODITY MARKET PERFORMANCE

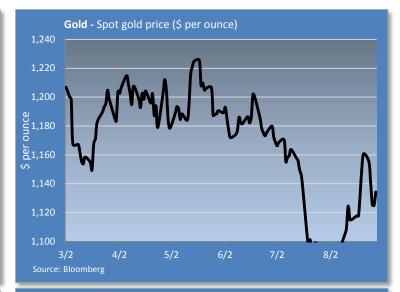
	SEEEOLED CONTINUED									
	Last	Change	% Chg.	YTD %						
DJ UBS Comm. ldx.	89.36	1.55	1.77%	-14.35%						
Rogers Int. Comm. ldx.	2277.05	-34.37	-1.49%	-18.46%						
Crude Oil	\$45.27	\$4.83	11.94%	-22.11%						
Natural Gas	\$2.72	\$0.03	0.96%	-10.37%						
Gasoline (\$/Gal.)	\$2.51	-\$0.10	-3.98%	12.10%						
Heating Oil	157.65	11.41	7.80%	-15.59%						
<b>Gold Spot</b>	\$1,134.16	-\$26.53	-2.29%	-4.23%						
Silver Spot	\$14.59	-\$0.72	-4.72%	-7.11%						

	Last	Change	% Chg.	YTD %
Platinum Spot	\$1,018.10	-\$1.40	-0.14%	-15.72%
Corn	375.00	-2.25	-0.60%	-10.93%
Wheat	483.75	-20.25	-4.02%	-21.31%
Soybeans	885.50	-4.00	-0.45%	-11.93%
Sugar	10.97	0.53	5.08%	-29.99%
Orange Juice	129.95	1.85	1.44%	-9.69%
Aluminum	1,560.00	12.00	0.78%	-15.79%
Copper	5,140.00	85.00	1.68%	-18.41%

 $Source: Bloomberg; \% \ change \ is \ based \ on \ price.$ 









### **ALTERNATIVE INVESTMENTS**

#### SELECTED ALTERNATIVE INVESTMENT INDEX PERFORMANCE

	Last	Change	% Chg.	YTD %
HFRX Global Hedge Fund Index	1213.94	0.69	0.06%	-1.01%
HFRX Equity Market Neutral	1007.65	10.15	1.01%	2.81%
HFRX Equity Hedge Index	1180.02	6.06	0.52%	-1.10%
HFRX Event-Driven Index	1470.55	-1.12	-0.08%	-3.39%
HFRX Absolute Return Index	1018.80	2.82	0.28%	2.25%

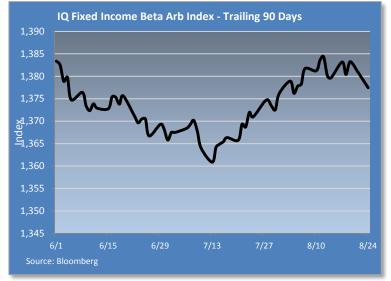
	Last	Change	% Chg.	YTD %
HFRX Distressed Index	987.40	-4.84	-0.49%	-2.58%
HFRX Merger Arbitrage Index	1679.81	0.11	0.01%	4.61%
HFRX Convertible Arbitrage Index	721.01	-1.29	-0.18%	1.92%
HFRX Macro CTA Index	1195.07	-3.78	-0.32%	-0.54%
IQ Fixed Income Beta Arb Index	1374.20	-7.04	-0.51%	-0.97%

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

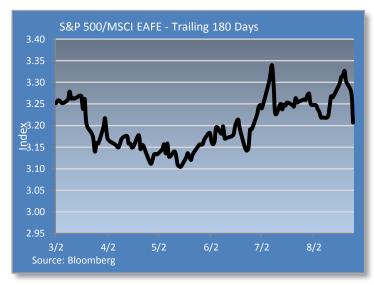




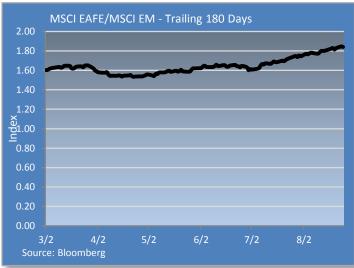




## **PORTFOLIO CONSTRUCTION**



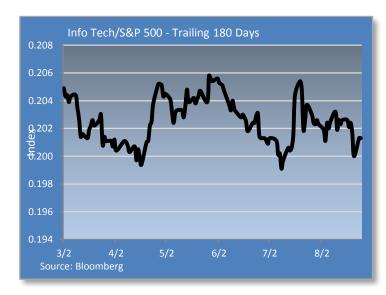


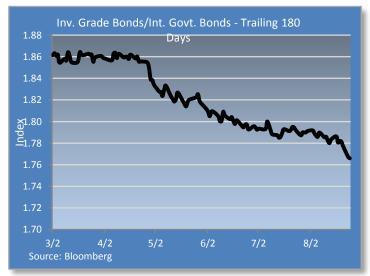


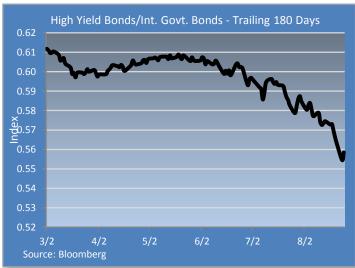


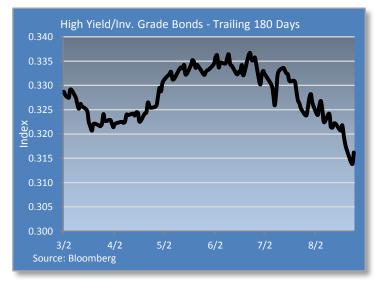


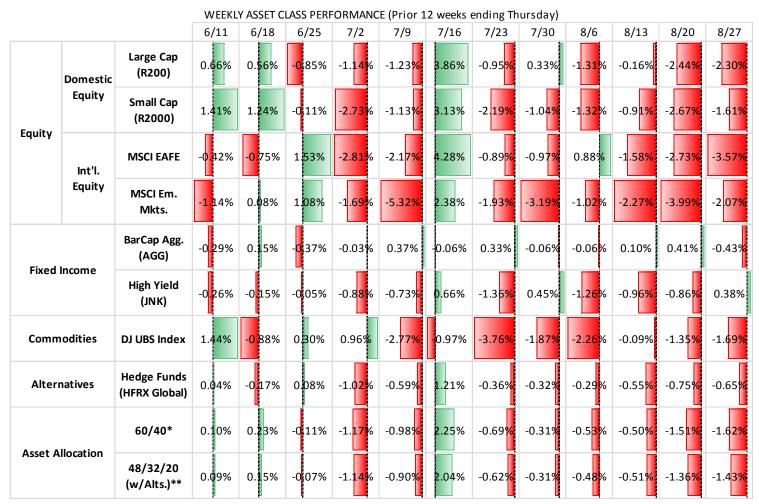
# PORTFOLIO CONSTRUCTION (cont'd.)











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

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

	Large Cap	Large Cap	Large Cap	Mid Cap	Mid Cap	Mid Cap	Small Cap	Small Cap	Small Cap	Int'l.	Emerging				
	Core	Growth	Value	Core	Growth	Value	Core	Growth	Value	Developed	Markets	REITs	Comm.	Int. Bond	High Yield
Large Cap Core	1.00	0.95	1.05	1.02	1.00	1.03	1.07	1.04	1.12	1.18	1.30	0.96	1.17	0.88	1.13
Large Cap Growth	1.05	1.00	1.11	1.07	1.05	1.08	1.13	1.09	1.18	1.24	1.37	1.01	1.23	0.92	1.19
Large Cap Value	0.95	0.90	1.00	0.97	0.95	0.98	1.02	0.99	1.06	1.13	1.24	0.91	1.11	0.83	1.08
Mid Cap Core	0.98	0.94	1.04	1.00	0.98	1.01	1.06	1.02	1.10	1.17	1.28	0.95	1.15	0.86	1.11
Mid Cap Growth	1.00	0.95	1.05	1.02	1.00	1.03	1.07	1.04	1.12	1.19	1.31	0.96	1.17	0.88	1.13
Mid Cap Value	0.97	0.92	1.02	0.99	0.97	1.00	1.04	1.01	1.09	1.15	1.26	0.93	1.13	0.85	1.10
Small Cap Core	0.93	0.89	0.98	0.95	0.93	0.96	1.00	0.97	1.04	1.10	1.21	0.90	1.09	0.82	1.05
Small Cap Growth	0.96	0.92	1.01	0.98	0.96	0.99	1.03	1.00	1.08	1.14	1.26	0.93	1.13	0.85	1.09
Small Cap Value	0.89	0.85	0.94	0.91	0.89	0.92	0.96	0.93	1.00	1.06	1.16	0.86	1.04	0.78	1.01
Int'l. Developed	0.84	0.80	0.89	0.86	0.84	0.87	0.91	0.88	0.94	1.00	1.10	0.81	0.99	0.74	0.95
Emerging Markets	0.77	0.73	0.81	0.78	0.77	0.79	0.82	0.80	0.86	0.91	1.00	0.74	0.90	0.67	0.87
REITs	1.04	0.99	1.09	1.06	1.04	1.07	1.11	1.08	1.16	1.23	1.35	1.00	1.21	0.91	1.18
Commodities	0.86	0.82	0.90	0.87	0.86	0.88	0.92	0.89	0.96	1.02	1.12	0.83	1.00	0.75	0.97
Int. Bond	1.14	1.09	1.20	1.16	1.14	1.18	1.22	1.18	1.28	1.35	1.49	1.10	1.33	1.00	1.29
High Yield	0.88	0.84	0.93	0.90	0.88	0.91	0.95	0.92	0.99	1.05	1.15	0.85	1.03	0.77	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.

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, Mortgagebacked 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 Citigroup World Government Bond Index measures the performance of fixed-rate, local currency, investment grade sovereign bonds and comprises sovereign debt from over 20 countries, denominated in a variety of currencies. 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 Growth 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 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). The ISM Non-Manufacturing Index 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 ISM Manufacturing Index is an index based on surveys of more than 300 manufacturing firms by the Institute of Supply Management – the index monitors employment, production inventories, new orders and supplier deliveries. A composite diffusion index is created that monitors conditions in national manufacturing based on the data from these surveys. 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. (DM countries include: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland and the UK.) 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 15 markets in the Pacific region.

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