

**Economic & Capital Market Review** 

March 31, 2015

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# Economic & Capital Market Review March 31, 2015

# **KEY HIGHLIGHTS**

- In Q1 2015:
  - Macroeconomic themes and the actions of central banks throughout the world continued to drive the performance of global financial markets. Interest rate cuts and other accommodative measures in economies outside the US (including Quantitative Easing by the European Central Bank) drove foreign interest rates lower, extended the rise of the US dollar, and pushed various equity markets around the world to all-time highs.
- Growth assets were mostly higher:
  - Global equity indices were led higher by international developed stocks. Equity markets in the eurozone rose on improved economic data and the announcement of QE by the ECB, and the Japanese market moved higher on the prospects of further easing by the Bank of Japan.
  - The US market saw modest gains despite weaker data. Investors were optimistic the Federal Reserve will delay its first
    interest rate hike, which the market believes will occur in 2015. Small caps performed well, benefiting from their insulation
    from the negative impact the rising dollar has on the earnings of US companies with foreign market exposure.
  - Among other notable growth assets, master limited partnerships traded lower with energy prices.
- Income assets were positive:
  - Interest rates moved lower throughout the world during the quarter, pushing bond prices higher. International fixed income index returns were brought lower by continued dollar strength.
  - Core fixed income strategies were positive as yields fell across the curve in the US.
  - Core real estate continues to produce strong returns, gaining 3.4% for the quarter, and relative value hedge fund strategies were also positive.
- Diversifying assets were mixed:
  - Long Treasury bonds gained 4.0% during the quarter, benefiting from the continued decline in long-term interest rates. In January, the 30-year Treasury reached an all-time low yield of 2.2%.
  - Commodity indices fell with energy prices, while TIPS gained from the decline in real yields.

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# **Economic Perspective**

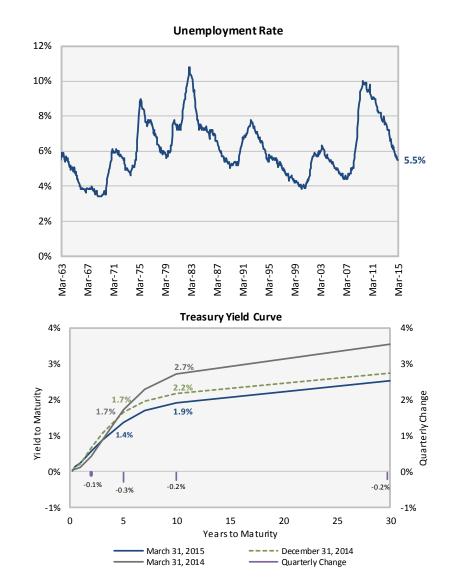
March 31, 2015

#### Economy

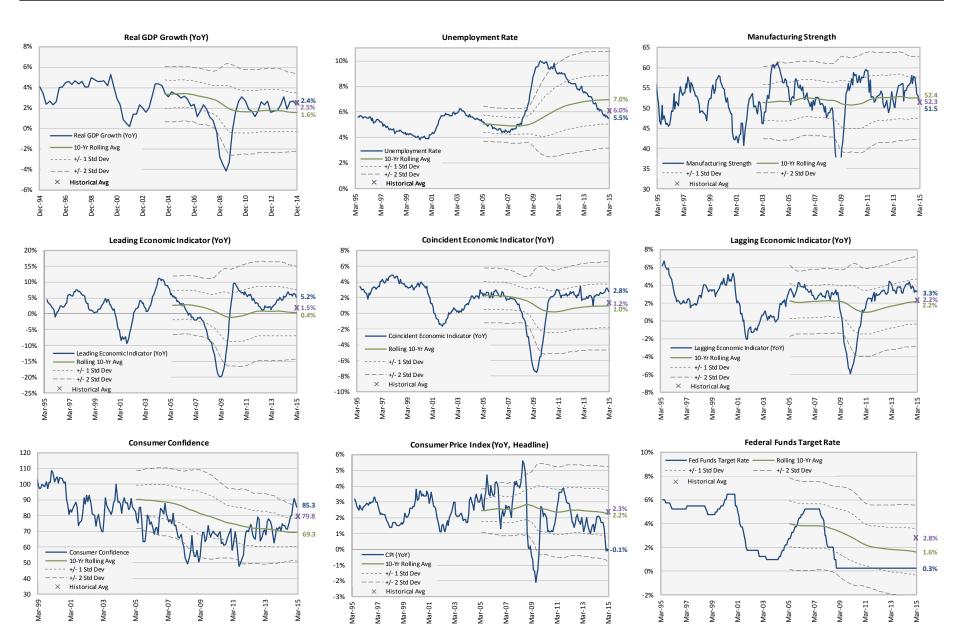
- US economic growth appears to have moderated during the first quarter of 2015 relative to recent quarters. Consumer spending, manufacturing and construction activity, and retail sales came in below expectations as severe winter weather in much of the country weighed on activity.
- Conversely, the US labor market continued to show signs of improvement. The unemployment rate was 5.5% at the end of the first quarter, down 10 basis points from its December 2014 level; at the end of March, unemployment was at its lowest level since May 2008. Job growth in January and February was strong and while employers hired fewer workers than expected in March, the economy added more than three million jobs over the 12 months ending March. Many labor market indicators have returned to levels last seen prior to the Great Recession, a sign the economy is recovering and may be stable enough for the Federal Reserve to raise short-term interest rates for the first time since 2006.
- Economic growth and fundamentals throughout the rest of the world have broadly been lackluster. Many policymakers outside the US have cut key interest rates in order to spur economic growth and battle deflationary pressures. In some areas, such as the eurozone, activity has started to pick up and economic data has generally beaten expectations.
- Currency exchange rates continued to reflect the diverging policies of central banks throughout the world and the increasing difference in interest rates between countries. The US Dollar Index (DXY) gained 9% during the quarter and 23% over the nine months ending March 2015. As interest rates have declined overseas (even into negative territory in some countries), investors have continued to show strong demand for the relatively higher interest rates of the US. The demand for US bonds from international investors is likely to help keep a cap on domestic rates going forward, even against the backdrop of the Federal Reserve raising short-term rates.
- Oil prices (WTI) once again declined in the first quarter, falling 11% to \$48 per barrel. Since June 2014, when one barrel of crude oil was \$105, prices have fallen 55%. While lower oil prices are likely to act as a tailwind for US consumption in coming quarters, to-date US consumers have mostly been inclined to save or pay down debt with the extra money from lower gasoline prices.

#### **Yield Curve**

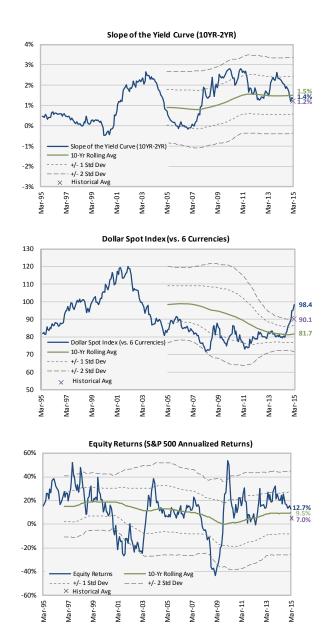
 The spread between 2-year and 30-year Treasuries tightened 10 bps to 200 bps during the quarter. 200 bps is the lowest quarter-end spread between 2- and 30year Treasuries since 2007.

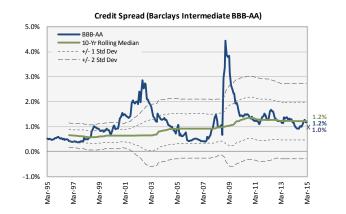


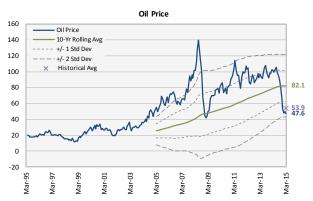
# Economic Perspective March 31, 2015



### Summit Strategies Group







Fixed Income Returns (Barclays Aggregate Annualized Returns)



# **Growth Assets**

March 31, 2015

#### **Public Equities**

- The global equity market returned 2.6% in the first quarter as US and international developed market large cap stocks, which make up over 75% of the global market capitalization, gained 1.0% and 4.9%, respectively. Within the US market, small cap (Russell 2000, 4.3%) outperformed large cap (Russell 1000, 1.6%) by 270 basis points. Strong performance in 2015 by US small caps has been due in part to their insulation from the recent volatility in currency markets and impact of the rising US dollar.
- Master Limited Partnerships (MLPs) struggled during the quarter, returning -5.2%. MLPs have traded lower with the sell-off in energy prices in recent months. Fundamentals are strong for the asset class despite lower crude oil prices; since June 2014, the distribution yield of the Alerian MLP Index has risen 95 basis points to 6.2%. The historical average distribution yield for the Index is 7.4%.

#### **Public Debt**

 High yield bond yields compressed 40 bps during the quarter with the Barclays US High Yield Index returning 2.5%. Spreads tightened 20 bps to 465 bps, and remain below their 20-year average of 530 bps.

#### **Private Equity**

 Purchase price multiples, as measured by S&P Leveraged Commentary and Data (LCD), were 9.5x at the end of the first quarter; this multiple is higher than any annual average on record. Pricing is being driven by managers competing with each other and renewed vigor from corporate buyers, who have a lower cost of capital and significant cost synergies that support higher prices. Despite this market dynamic, fundraising has not dropped significantly from the robust pace of 2014. Fundraising continues to be fueled by record distributions across the industry as well as investors increasing allocations in a search for higher returning assets.

#### **Private Debt**

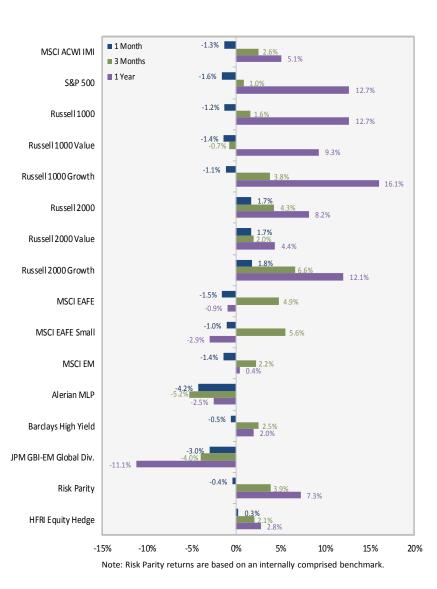
 There was an uptick in covenant relief amendments in the first quarter. While it is only one quarter of data, we will be monitoring for more reliefs in coming quarters as oil prices test the capital structures of several sponsor-backed deals in the oil patch. Debt/EBITDA ratios remain near all-time highs, but capital structures appear to be on firm footing; capex and interest coverage remain significantly higher than the low coverage rates seen in 2006 and 2007.

#### **Risk Parity**

• Risk parity strategies performed well, with positive contributions from equity and interest rate exposures during the quarter.

#### **Growth Hedge Funds**

• Long/short equity hedge funds gained, funds focusing on growth-oriented sectors, especially technology, performing particularly well. Event-driven hedge funds were also positive, with activists generating the highest returns.

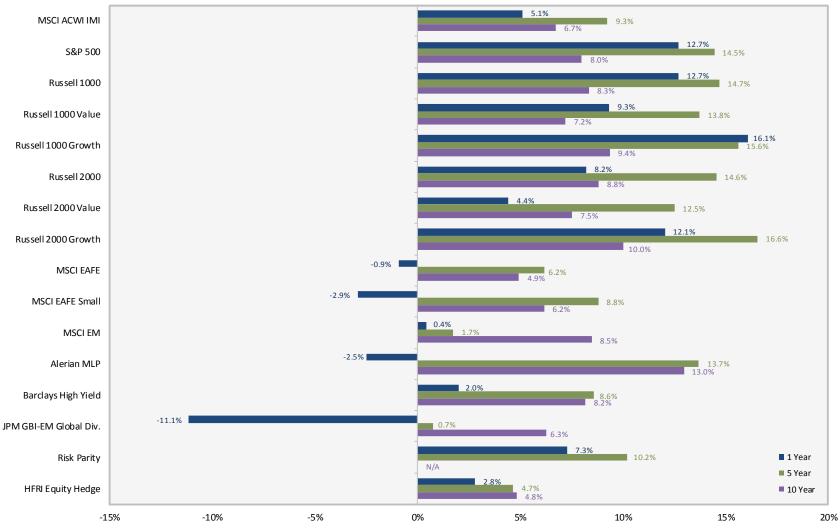


Summit Strategies Group

# **Growth Assets**

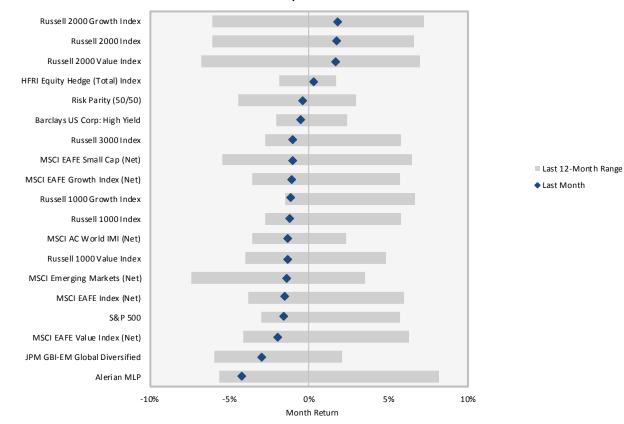
March 31, 2015

# ANNUALIZED ONE-, FIVE-, AND TEN-YEAR RETURNS



Note: Risk Parity returns are based on an internally comprised benchmark.

# **HISTORICAL RELATIVE PERFORMANCE**

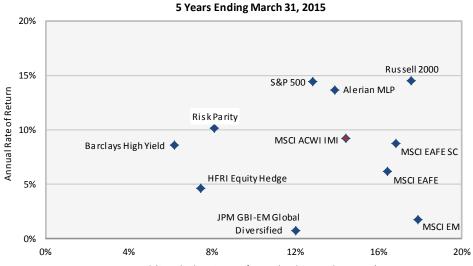


#### **Ranked Monthly Return Distribution**

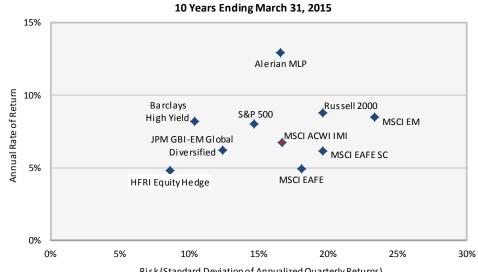




# ASSET CLASS RISK/RETURN PERFORMANCE



Risk (Standard Deviation of Annualized Quarterly Returns)

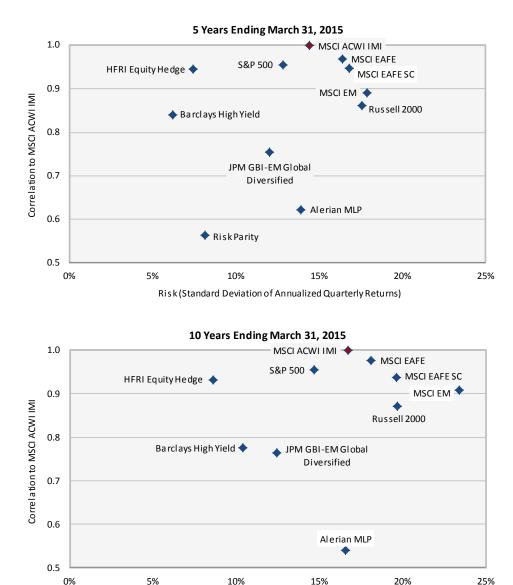


Risk (Standard Deviation of Annualized Quarterly Returns)

# **Growth Assets**

March 31, 2015

# ASSET CLASS CORRELATION TO MSCI ACWI IMI

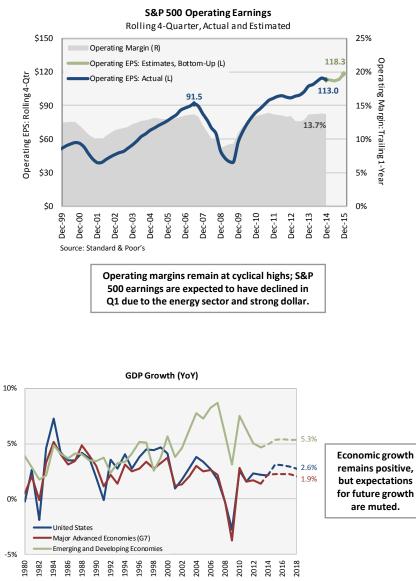




# **Growth Assets**

March 31, 2015

# **MARKET CHARTS**



Source: International Monetary Fund



80 60 40 20 0 -20 -40 -60 -48 Economic Surprise Index 1-Year Average -80 Mar-13 Sep-13 Dec-13 Mar-14 Sep -1 4 Mar-15 Jun-13 Jun-14 Dec-14 Source: Citigroup

> Economic data releases came in lower than expected during the first quarter; an Index reading of 0 means data has met analyst expectations.

#### Citigroup Economic Surprise Index

#### Public Debt

- Interest rates in most developed economies fell during the quarter. Bond market volatility has increased over the first three months of 2015, as investors have reacted to global economic data, commentary from Federal Reserve officials regarding the timing of the first interest rate increase, and ongoing central bank intervention outside the US. The 10year US Treasury ended the quarter yielding 1.9%, well below its 20-year average of 4.3%. Yields outside the US also remain very low and in some cases have moved into negative territory.
- Core fixed income (Barclays Aggregate) underperformed core plus (Barclays US Universal) by 10 bps during the first quarter, as higher-risk fixed income, such as high yield, outperformed safer bonds.
- US Government bond prices rose in the first quarter as yields fell, returning 1.6%.
- Corporate bonds also rose during the quarter, with spreads (130 bps) remaining unchanged. Corporate bond spreads have averaged 145 bps over the past 20 years.
- Mortgage-backed securities returned 1.1% for the quarter with agency MBS spreads falling 5 bps to 20 bps, the lowest level for MBS spreads since 2010.
- International bonds continued to face the headwind of the rising US dollar, with the Barclays Global Aggregate ex-US Index returning -4.6% in the first quarter.

#### **Private Debt**

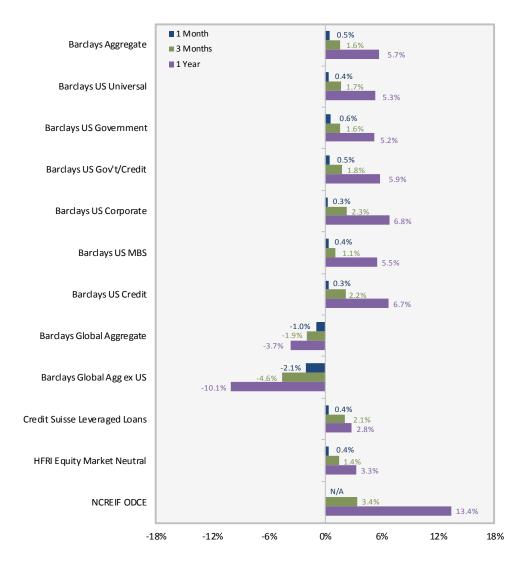
• Leveraged loans performed well in the first quarter, bringing the oneyear return for the Credit Suisse Leveraged Loan Index to 2.8%.

#### **Relative Value Hedge Funds**

• The HFRI Equity Market Neutral Index saw modest gains during the first quarter. Volatility and credit-oriented strategies performed well.

#### **Core Real Estate**

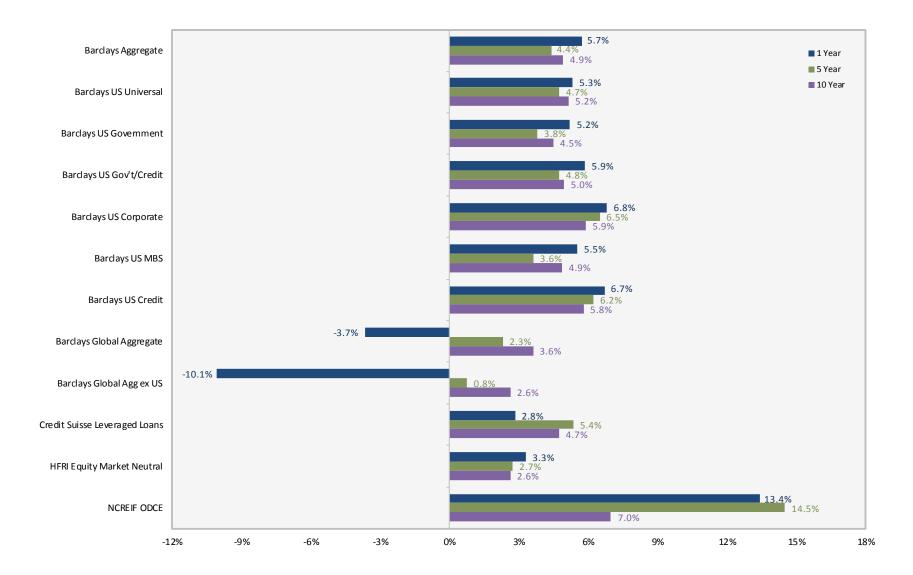
• The preliminary first quarter gross return for core real estate is 3.4%, as measured by the NCREIF ODCE Index. Economic growth throughout the U.S. has fueled favorable returns in the commercial real estate sector. Another contributing factor to the appreciation returns by the NCREIF ODCE Index has been financing, as funds with maturing debt continue to benefit from historically low Treasuries.



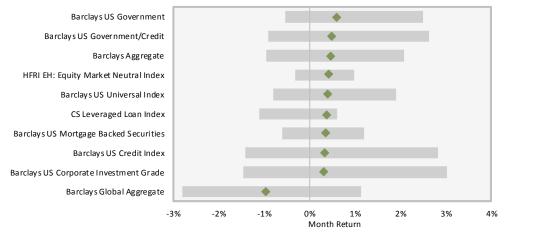
# **Income Assets**

March 31, 2015

# ANNUALIZED ONE-, FIVE-, AND TEN-YEAR RETURNS



# HISTORICAL RELATIVE PERFORMANCE



#### Ranked Monthly Return Distribution



Last Month

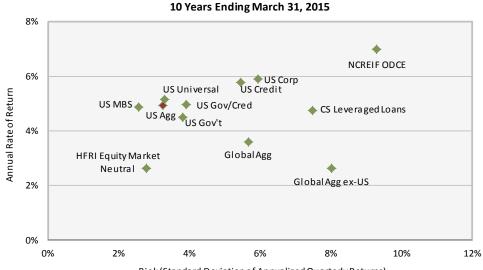
#### **Relative Performance**



# ASSET CLASS RISK/RETURN PERFORMANCE

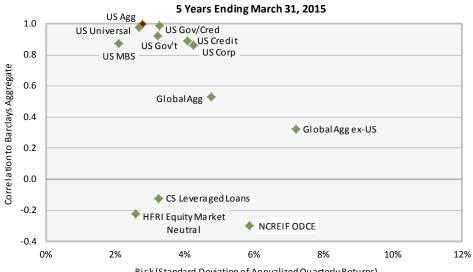
15% NCREIF ODCE 12% Annual Rate of Return 9% US Credit US Corp 6% CS Leveraged Loans US Universal US Gov/Cred US Agg +US Gov't US MBS ۲ 3% ◆ GlobalAgg HFRI Equity Market Global Agg ex-US Neutral ۲ 0% 0% 2% 3% 4% 5% 6% 7% 1% 8% Risk (Standard Deviation of Annualized Quarterly Returns)

5 Years Ending March 31, 2015

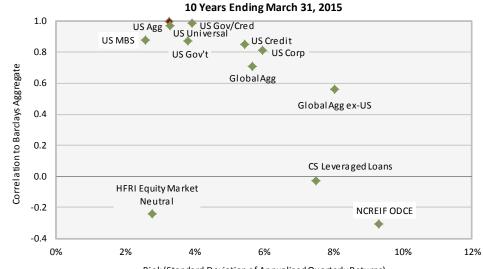


Risk (Standard Deviation of Annualized Quarterly Returns)

# ASSET CLASS CORRELATION TO BARCLAYS AGGREGATE



Risk (Standard Deviation of Annualized Quarterly Returns)

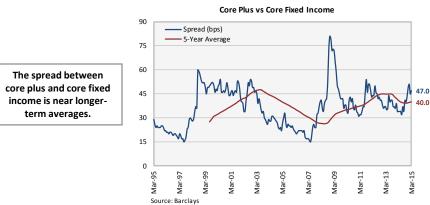


Risk (Standard Deviation of Annualized Quarterly Returns)

### **Income Assets**

March 31, 2015

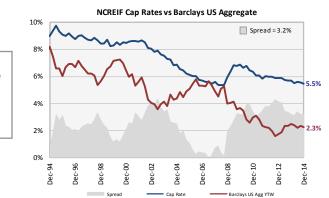
# **MARKET CHARTS**

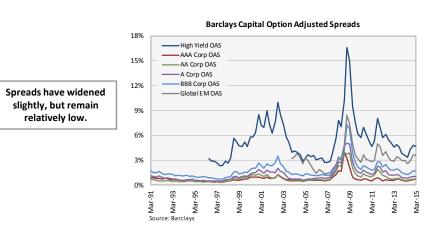






Post-2008, commercial real estate cap rates have remained relatively stable, with spreads to Treasuries remaining elevated.

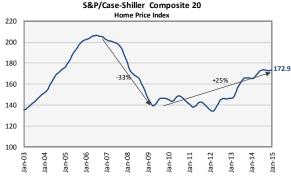




#### **Employment Cost Index YoY % Change**







Source: S&P Case-Shiller Composite 20-Home Price Index NSA

# Summit Strategies Group

#### Source: NCREIF, Barclays

# **Diversification Assets** March 31, 2015

#### Inflation

• TIPS rose 1.4% during the first quarter as real yields fell. The asset class produced a 3.1% gain for the 12 months ending March.

#### Deflation

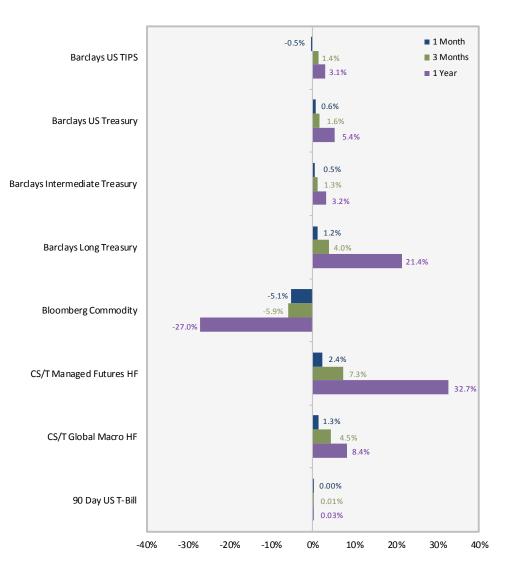
- Treasury prices rose during the first quarter, with the Barclays US Treasury Index returning 1.6%.
- Intermediate Treasuries returned 1.3% and long duration Treasuries returned 4.0% for the quarter. Intermediate and long Treasuries have earned 3.2% and 21.4%, respectively, over the past year. Long duration fixed income has performed particularly well, as rates at the long end of the yield curve have declined to historic lows.
- Cash continues to offer virtually no return, as 90-Day T-Bills have gained just 3 bps over the past year.

#### Commodities

 Commodity prices fell during the quarter, continuing to move inversely to the rising US dollar. Of the 33 commodities traded on major exchanges, 30 declined and three gained. The supply and demand disconnect in the energy and agriculture-related markets sent these commodities lower yet again.

#### **Tactical Trading**

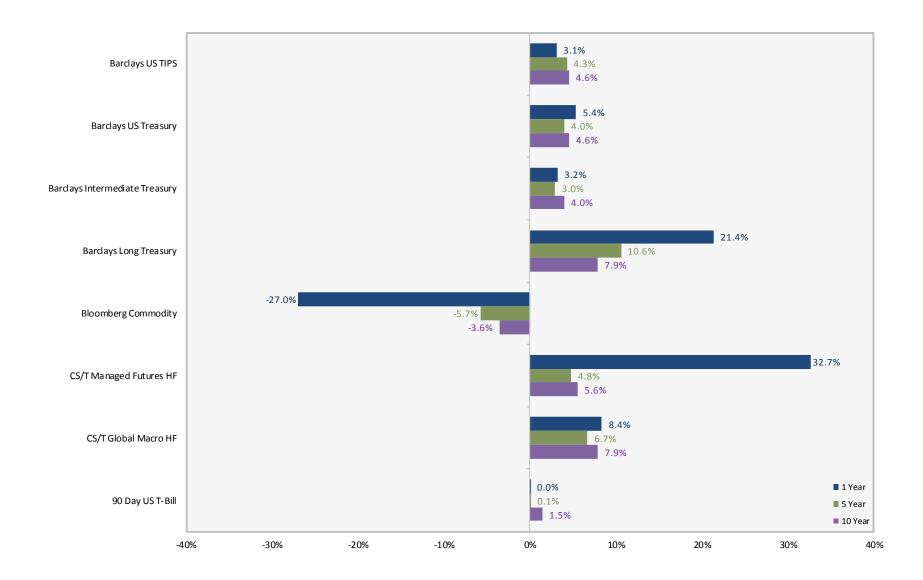
• Diversification hedge funds performed well during the quarter. CTAs continue to drive performance with trend-following strategies, while discretionary global macro also contributed.



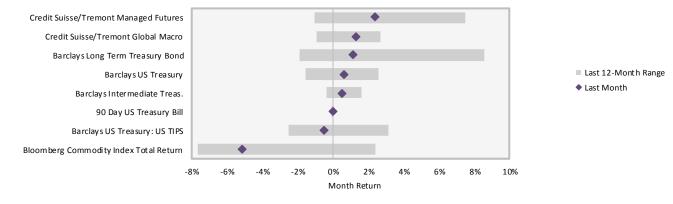
# **Diversification Assets**

March 31, 2015

# **ANNUALIZED ONE-, FIVE-, AND TEN-YEAR RETURNS**



# **HISTORICAL RELATIVE PERFORMANCE**

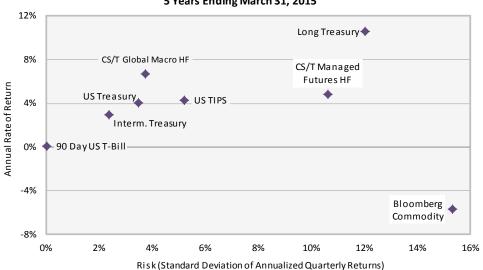


#### **Ranked Monthly Return Distribution**



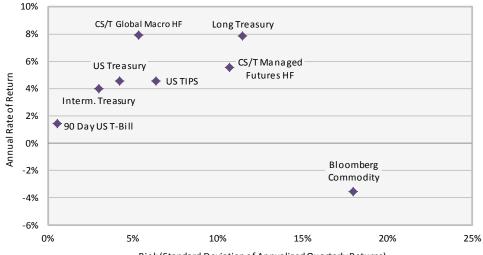


# ASSET CLASS RISK/RETURN PERFORMANCE



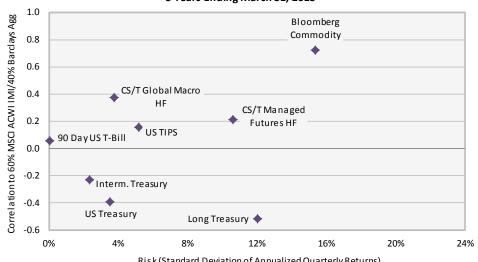
5 Years Ending March 31, 2015

10 Years Ending March 31, 2015



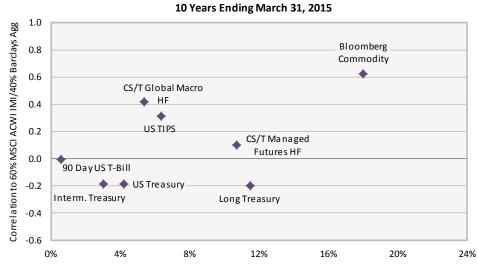
Risk (Standard Deviation of Annualized Quarterly Returns)

# ASSET CLASS CORRELATION TO 60% MSCI ACWI IMI/40% BARCLAYS AGGREGATE



5 Years Ending March 31, 2015

 ${\tt Risk} ({\tt Standard \ Deviation \ of \ Annualized \ Quarterly \ Returns})$ 

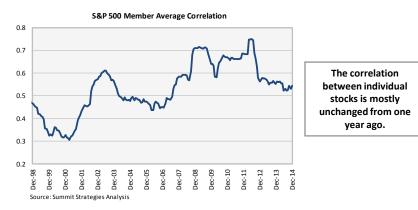


Risk (Standard Deviation of Annualized Quarterly Returns)

# **Diversification Assets**

March 31, 2015

# **MARKET CHARTS**

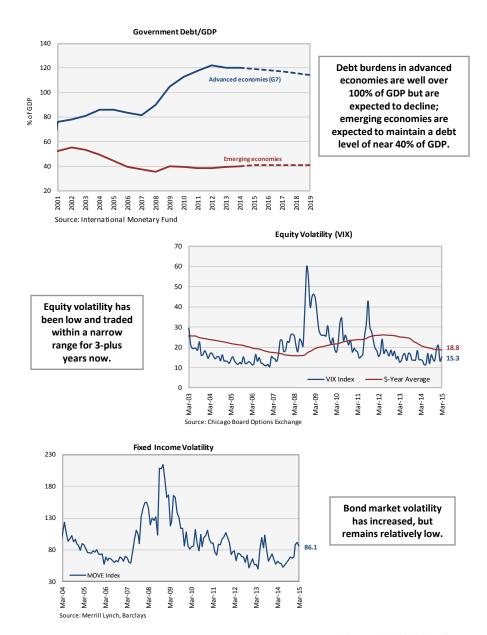


**Commodities: Including and Excluding Petroleum** 150 135 **Commodity prices have** declined dramatically; 120 the damage has not been limited to energy. 105 DJ-UBS Commodity Index DJ-UBS Commodity Index ex-Petroleum 90 Jun-13 Sep-13 Dec-13 Mar-14 Sep-14 Dec-14 Mar-15 13 Jun-14 Mar-Source: Dow Jones-UBS





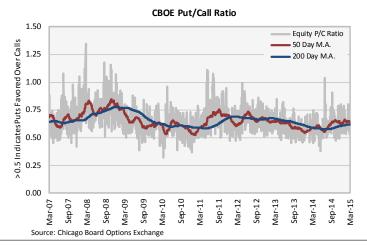
According to the STLFSI, financial market stress is currently below-average; a reading of 0 indicates average market stress.



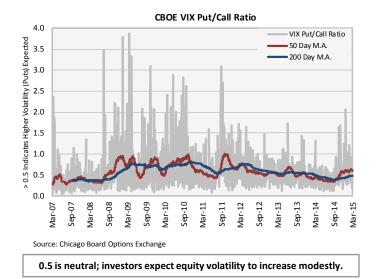
# **Diversification Assets**

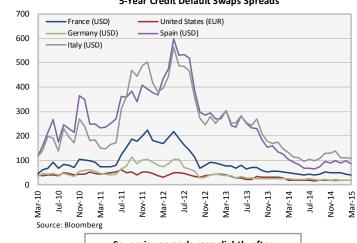
March 31, 2015

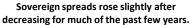
# **MARKET SKEW**



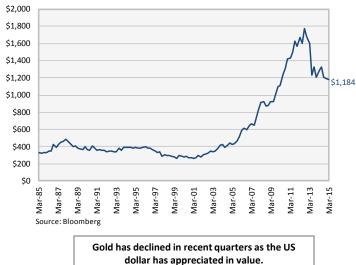
0.5 is neutral; investors are slightly more inclined to buy downside protection than they were at the beginning of the quarter, as suggested by the 50-day moving average.











#### 5-Year Credit Default Swaps Spreads

# **INVESTMENT THEMES: LOOKING FORWARD**

# What We Believe

#### Growth

- Muted global growth.
  - Deleveraging/deflationary pressures continue.
  - Growth potential continues to decline.
- Ongoing divergence in global economies.
  - More varied policy maker responses.
  - Source of market volatility.
- Major economies at different stages of central bank intervention.
- Valuation differences between domestic equities and other growth assets remain elevated, presenting opportunities.
- Strengthening US Dollar versus foreign currencies.

#### Income

- Muted returns for most fixed income assets.
  - Yields are low and credit spreads remain relatively compressed.

# Diversification

- Market is pricing in significant deflationary pressures.
- Inflation and growth expectations are at very low levels.
- The cost of explicit tail insurance remains moderate.

# What Investors Should Do

- Conservatively position Growth portfolio.
  - Move equity allocations near lower end of range.
  - Decrease return expectations.
- Focus on active management and quality.
- Emphasize broad diversification.
- Overweight emerging market equities and debt.
- In developed markets, bias towards US Dollar exposure.
- Balance credit risk, duration risk, and active management risk.

- Favor cheap inflation protection over expensive deflation protection.
- Monitor tail hedging strategy costs for potential inclusion.

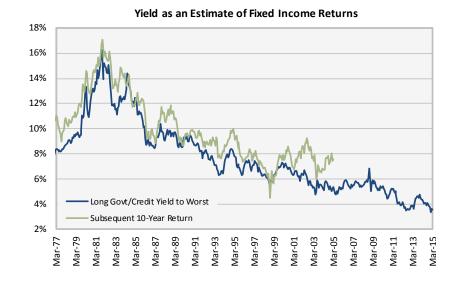
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# **SUMMARY**

- The capital market assumptions section summarizes changes to Summit's longterm strategic capital market assumptions (Summit's full assumptions document is updated annually).
- While these assumptions are long-term by definition (one would not expect them to change frequently), there are times when market fundamentals move dramatically, thereby altering the long-term expected performance for certain asset classes.
- The pages that follow provide brief supporting documentation for each of the asset classes in the table. For a complete rationale (for all assumptions) please refer to Summit's annual "Capital Market Assumption" publication (available at www.summitstrategies.com).

	Current E	Estimates	Previous	Quarter	
	Expected	Standard	Expected	Standard	Alpha
Asset Class	Return	Deviation	Return	Deviation	Assumptions
Inflation (CPI)	1.75%	1.75%	1.75%	1.75%	
GROWTH:					
Large Cap	5.00%	16.50%	5.00%	16.50%	0.50%
Small Cap	4.75%	20.50%	4.75%	20.50%	0.75%
International Large Cap	6.25%	19.75%	6.25%	19.75%	0.75%
International Small Cap	6.25%	22.75%	6.25%	22.75%	1.00%
Emerging Markets	8.25%	24.50%	8.25%	24.50%	1.00%
Master Limited Partnerships (MLP)	8.00%	18.50%	7.75%	18.50%	1.00%
Private Equity	7.75%	21.00%	7.75%	21.00%	1.00%
Growth Hedge Funds	5.50%	10.00%	5.75%	10.00%	0.75%
High Yield Bonds	4.75%	12.00%	5.25%	12.00%	0.50%
Emerging Market Debt	6.25%	10.50%	6.50%	10.50%	0.75%
Convertibles	4.25%	13.75%	4.50%	13.75%	0.50%
Private Debt	7.25%	15.00%	7.75%	15.00%	0.75%
Non-Core Real Estate	7.75%	23.00%	7.75%	23.00%	1.00%
Public Real Estate (REITs)	5.50%	15.00%	5.50%	15.00%	0.50%
Risk Parity	6.50%	10.00%	6.75%	10.00%	0.00%
INCOME:					
Public Debt					
Governments	1.75%	4.50%	2.00%	4.50%	
Corporates	3.25%	6.00%	3.50%	6.00%	0.50%
Mortgages (Agency)	2.25%	3.00%	2.50%	3.00%	0.25%
Intermediate Fixed Income	2.25%	3.25%	2.50%	3.25%	0.25%
Core Fixed Income	2.25%	3.25%	2.50%	3.25%	0.25%
Core Plus Fixed Income	2.75%	3.75%	3.00%	3.75%	0.50%
Long Gov/Credit Fixed Income	3.00%	9.75%	3.25%	9.75%	0.25%
International Fixed Income	2.25%	8.25%	2.50%	8.25%	0.50%
Public Bank Loans	4.75%	11.00%	5.25%	11.00%	0.50%
Private Bank Loans	6.00%	13.00%	6.50%	13.00%	0.75%
Relative Value Hedge Funds	4.50%	5.00%	4.75%	5.00%	0.50%
Core Real Estate	6.50%	12.00%	6.50%	12.00%	0.25%
DIVERSIFICATION:					
Cash	2.00%	1.75%	2.25%	1.75%	
TIPS	2.00%	5.50%	2.25%	5.50%	0.00%
Long Treasuries	2.25%	13.25%	2.50%	13.25%	0.00%
Commodities	4.75%	20.75%	5.00%	20.75%	1.00%
Tactical Trading	6.00%	10.00%	6.25%	10.00%	0.50%
Diversified Hedge Funds	5.00%	6.00%	5.25%	6.00%	0.75%

# **FIXED INCOME**

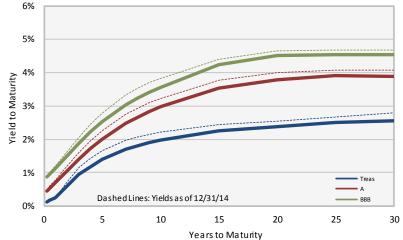




**Historical Yields** 

	Assun	nptions	Option-Adju	isted Spread
Asset Class	Current	Previous	Current	Previous
CPI	1.75%	1.75%	n/a	n/a
High Yield Bonds	4.75%	5.25%	466	424
Emerging Market Debt	6.25%	6.50%	n/a	n/a
Convertibles	4.25%	4.50%	n/a	n/a
Governments	1.75%	2.00%	2	2
Corporates	3.25%	3.50%	129	112
Mortgages (Agency)	2.25%	2.50%	20	30
Intermediate Fixed Income	2.25%	2.50%	37	32
Core Fixed Income	2.25%	2.50%	46	43
Core Plus Fixed Income	2.75%	3.00%	95	87
Long Gov/Credit Fixed Income	3.00%	3.25%	118	106
International Fixed Income	2.25%	2.50%	33	33
Cash	2.00%	2.25%	n/a	n/a
TIPS	2.00%	2.25%	n/a	n/a

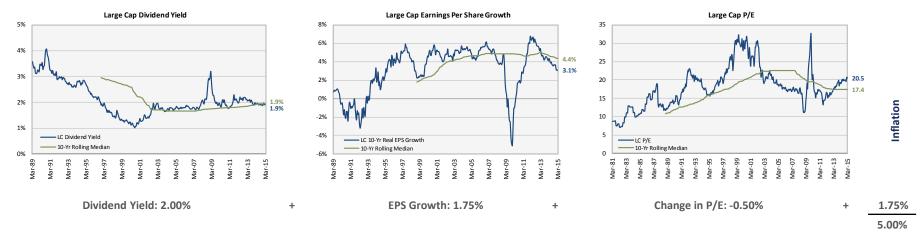




# Capital Market Assumptions March 31, 2015

# **DOMESTIC EQUITY**

**Large Cap Equity** 

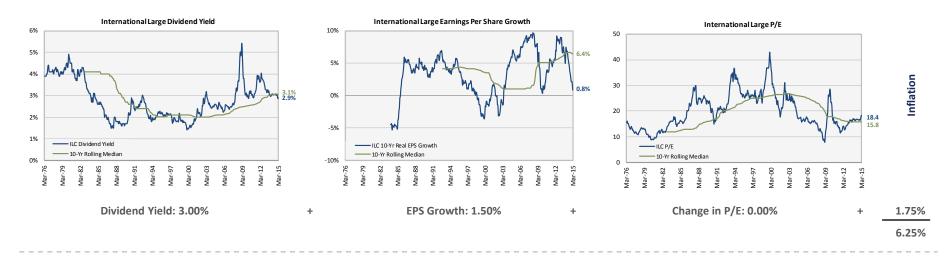


# **Small Cap Equity**

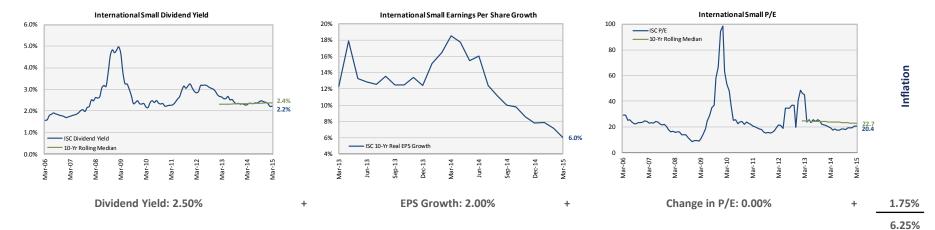


# **DEVELOPED INTERNATIONAL EQUITY**

# **International Large Cap Equity**



**International Small Cap Equity** 

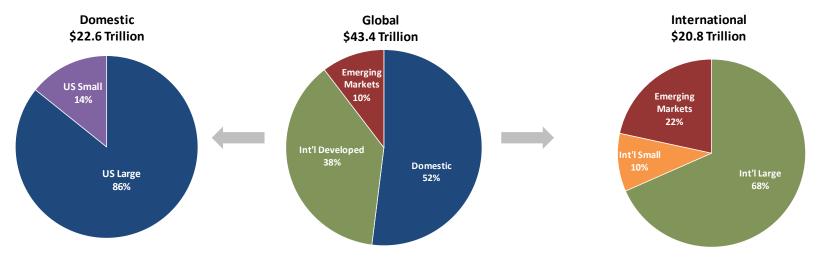


# **INTERNATIONAL EQUITY**

# **Emerging Markets Equity**



**Global Market Capitalization** 



#### Summit Strategies Group

# ALTERNATIVES

GROWTH									
					Small Cap		Return Premium		Expected
Private Equity					4.75%	+	3.00%	=	7.75%
	Expected Sharpe Ratio				Cash		Vol-Adj Excess Returns		
Growth Hedge Funds	0.35				2.00%	+	3.50%	=	5.50%
					High Yield		Return Premium		
Private Debt					4.75%	+	2.50%	=	7.25%
			Distribution Yield		Distribution Growth		Valuation		
Master Limited Partnerships			6.25%	+	1.75%	+	0.00%	=	8.00%
	Current Cap Rate		Growth		Liquidity Premium		Leverage Adjustment		
Non-Core Real Estate	5.50%	+	1.00%	+	1.25%	+	0.00%	=	7.75%
	Current Yield		Growth		Valuation		Leverage Adjustment		
Public Real Estate (REITS)	3.75%	+	1.00%	+	0.00%	+	0.75%	=	5.50%
	Expected Sharpe Ratio				Cash		Risk-Adj Beta Exposure		
Risk Parity	0.45				2.00%	+	4.50%	=	6.50%
INCOME									
					Public Bank Loans		Return Premium		
Private Bank Loans					4.75%	+	1.25%	=	6.00%
	Expected Sharpe Ratio				Cash		Vol-Adj Excess Returns		
Relative Value Hedge Funds	0.50				2.00%	+	2.50%	=	4.50%
	Current Cap Rate		Growth		Valuation		Leverage Adjustment		
Core Real Estate	5.50%	+	1.00%	+	0.00%	+	0.00%	=	6.50%
DIVERSIFICATION					Cash		Return Premium		
DIVERSIFICATION									
Commodities					2.00%	+	2.75%	=	4.75%
	Expected Sharpe Ratio					+	2.75% Vol-Adj Excess Returns	=	4.75%
	Expected Sharpe Ratio 0.40				2.00%	+ +		= =	4.75% 6.00%
Commodities					2.00% Cash		Vol-Adj Excess Returns		

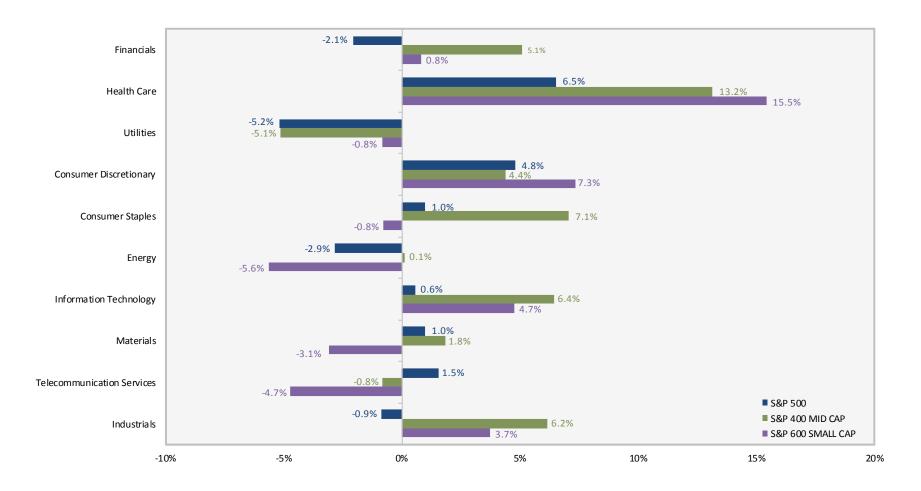
# **Relative Performance**

March 31, 2015

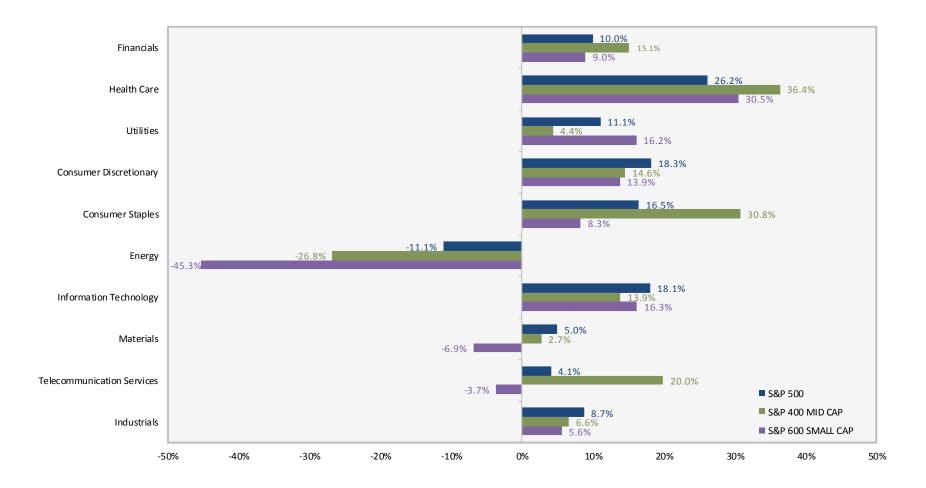
# STYLE PERFORMANCE RANKING: ONE-YEAR TIME PERIODS

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Q1 2015	10 Yr ROR	20 Yr ROR
	EM 74.8%	EAFE 8.1%	Large Value 38.4%	Large Growth 23.1%	Large Value 35.2%	Large Growth 38.7%	EM 66.4%	Small Value 22.8%	Small Value 14.0%	Core Bonds 10.3%	EM 55.8%	EM 25.6%	EM 34.1%	EM 32.2%	EM 39.4%	Bar. Int Treas 11.4%	EM 78.5%	Small Growth 29.1%	Core Bonds 7.8%	EM 18.2%	Small Growth 43.3%	S&P 500 13.7%	Small Growth 6.6%	Small Growth 6.6%	Small Growth 10.0%	Small Value 10.9%
Performing	EAFE 32.9%	Large Growth 2.7%	S&P 500 37.6%	S&P 500 23.0%	S&P 500 33.4%	S&P 500 28.6%	Small Growth 43.1%	Core Bonds 11.6%	Core Bonds 8.4%	Bar. Int Treas 9.6%	Small Growth 48.5%	Small Value 22.3%	EAFE 14.0%	EAFE 26.9%	Large Growth 11.8%	Core Bonds 5.2%	HY Bonds 58.2%	Small Cap 26.9%	Bar. Int Treas 6.6%	Small Value 18.1%	Small Cap 38.8%	Large Value 13.5%	EAFE 4.9%	EAFE 4.9%	Large Growth 9.4%	Large Value 10.0%
Best Per	Small Value 23.8%	S&P 500 1.3%	Large Growth 37.2%	Large Value 21.6%	Small Value 31.8%	EAFE 20.3%	Large Growth 33.2%	Bar. Int Treas 10.3%	Bar. Int Treas 8.2%	HY Bonds -1.4%	Small Cap 47.3%	EAFE 20.7%	Large Value 7.1%	Small Value 23.5%	EAFE 11.6%	HY Bonds -26.2%	Large Growth 37.2%	Small Value 24.5%	HY Bonds 5.0%	Large Value 17.5%	Small Value 34.5%	Large Growth 13.1%	Small Cap 4.3%	Small Cap 4.3%	Small Cap 8.8%	Small Cap 9.6%
Ť	Small Cap 18.9%	HY Bonds -1.0%	Small Growth 31.0%	Small Value 21.4%	Large Growth 30.5%	Large Value 15.6%	EAFE 27.3%	Large Value 7.0%	HY Bonds 5.3%	EM -6.0%	Small Value 46.0%	Small Cap 18.3%	Large Growth 5.3%	Large Value 22.2%	Bar. Int Treas 8.8%	Small Value -28.9%	Small Growth 34.5%	EM 18.9%	Large Growth 2.6%	EAFE 17.3%	Large Growth 33.5%	Core Bonds 6.0%	Large Growth 3.8%	Large Growth 3.8%	EM 8.5.%	S&P 500 9.4%
	Large Value 18.1%	Small Value -1.5%	Small Cap 28.4%	Small Cap 16.5%	Small Cap 22.4%	Core Bonds 8.7%	Small Cap 21.3%	Small Cap -3.0%	Small Cap 2.5%	Small Value -11.4%	EAFE 39.2%	Large Value 16.5%	S&P 500 4.9%	Small Cap 18.4%	Small Growth 7.1%	Small Cap -33.8%	EAFE 31.9%	Large Growth 16.7%	S&P 500 2.1%	Small Cap 16.3%	Large Value 32.5%	Small Growth 5.6%	BC HY 2.5%	BC HY 2.5%	BC HY 8.2%	Large Growth 8.8%
Ļ	HY Bonds 17.1%	Small Cap -1.8%	Small Value 25.8%	HY Bonds 11.4%	Small Growth 12.9%	Bar. Int Treas 8.6%	S&P 500 21.0%	HY Bonds -5.9%	EM -2.4%	Large Value -15.5%	Large Value 30.0%	Small Growth 14.3%	Small Value 4.7%	S&P 500 15.8%	Core Bonds 7.0%	Large Value -36.9%	Small Cap 27.2%	Large Value 15.5%	Large Value 0.4%	S&P 500 16.0%	S&P 500 32.4%	Small Cap 4.9%	EM 2.2%	EM 2.2%	S&P 500 8.0%	Small Growth 7.9%
Bui	Small Growth 13.4%	Bar. Int Treas -1.8%	HY Bonds 19.2%	Small Growth 11.3%	HY Bonds 12.7%	HY Bonds 1.9%	Large Value 7.4%	S&P 500 -9.1%	Large Value -5.6%	EAFE -15.7%	Large Growth 29.8%	HY Bonds 11.1%	Small Cap 4.6%	Small Growth 13.4%	S&P 500 5.5%	S&P 500 -37.0%	S&P 500 26.5%	HY Bonds 15.1%	Small Growth -2.9%	HY Bonds 15.8%	EAFE 22.8%	Small Value 4.2%	Small Value 2.0%	Small Value 2.0%	Small Value 7.5%	BC HY 7.8%
Worst Performing	S&P 500 10.1%	Large Value -2.0%	Core Bonds 18.5%	EAFE 6.4%	Core Bonds 9.7%	Small Growth 1.2%	HY Bonds 2.4%	EAFE -14.0%	Small Growth -9.2%	Small Cap -20.5%	HY Bonds 29.0%	S&P 500 10.9%	Small Growth 4.1%	HY Bonds 11.9%	HY Bonds 1.9%	Large Growth -38.4%	Small Value 20.6%	S&P 500 15.1%	Small Cap -4.2%	Large Growth 15.3%	HY Bonds 7.4%	Bar. Int Treas 2.6%	Core Bonds 1.6%	Core Bonds 1.6%	Large Value 7.2%	EM 6.6%
5	Core Bonds 9.8%	Small Growth -2.4%	Bar. Int Treas 14.4%	EM 6.0%	Bar. Int Treas 7.7%	Small Cap -2.5%	Bar. Int Treas 0.4%	Large Growth -22.4%	S&P 500 -11.9%	S&P 500 -22.1%	S&P 500 28.7%	Large Growth 6.3%	HY Bonds 2.7%	Large Growth 9.1%	Large Value -0.2%	Small Growth -38.5%	Large Value 19.7%	EAFE 7.8%	Small Value -5.5%	Small Growth 14.6%	Bar. Int Treas -1.3%	Bar. HY 2.5%	BC Int Treas 1.3%	BC Int Treas 1.3%	EAFE 4.9%	Core Bonds 6.0%
	Bar. Int Treas 8.2%	Core Bonds -2.9%	EAFE 11.6%	Bar. Int Treas 4.0%	EAFE 2.1%	Small Value -6.5%	Core Bonds -0.8%	Small Growth -22.4%	Large Growth -20.4%	Large Growth -27.9%	Core Bonds 4.1%	Core Bonds 4.3%	Core Bonds 2.4%	Core Bonds 4.3%	Small Cap -1.6%	EAFE -43.4%	Core Bonds 5.9%	Core Bonds 6.5%	EAFE -12.1%	Core Bonds 4.2%	Core Bonds -2.0%	EM -2.2%	S&P 500 1.0%	S&P 500 1.0%	Core Bonds 4.9%	EAFE 5.2%
	Large Growth 2.9%	EM -7.3%	EM -5.2%	Core Bonds 3.6%	EM -11.6%	EM -25.3%	Small Value -1.5%	EM -30.6%	EAFE -21.2%	Small Growth -30.3%	Bar. Int Treas 2.1%	Bar. Int Treas 2.0%	Bar. Int Treas 1.6%	Bar. Int Treas 3.5%	Small Value -9.8%	EM -53.3%	Bar. Int Treas -1.4%	Bar. Int Treas 5.3%	EM -18.4%	Bar. Int Treas 1.7%	EM -2.6%	EAFE -4.9%	Large Value -0.7%	Large Value -0.7%	BC Int Treas 4.0%	BC Int Treas 5.0%

# EQUITY STYLE SECTOR PERFORMANCE COMPARISON: CURRENT QUARTER SMALL, MID, AND LARGE CAP



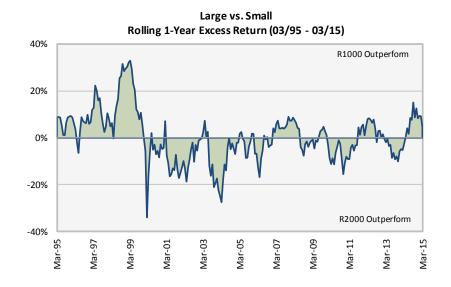
# EQUITY STYLE SECTOR PERFORMANCE COMPARISON: 1-YEAR SMALL, MID, AND LARGE CAP



# **Relative Performance**

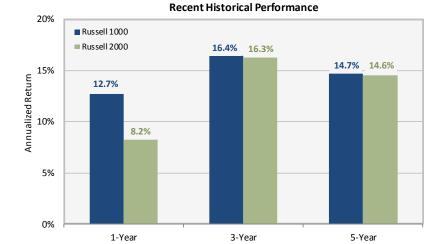
March 31, 2015

# HISTORICAL RELATIVE PERFORMANCE: LARGE CAP CORE TO SMALL CAP CORE





Large vs. Small



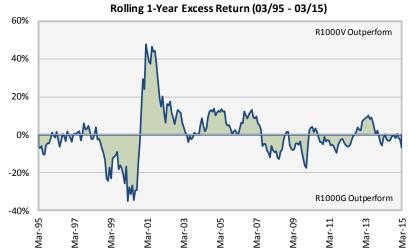
#### 1.5 LC Overvalued Relative to SC 1.0 0.78 0.66 0.58 0.5 L-S Rel PE 10-Yr Rolling Median ----- +/- 1 Std Dev --- +/- 2 Std Dev × Historical Avg LC Undervalued Relative to SC 0.0 Mar-95 Mar-05 Mar-09 Mar-15 Mar-97 Mar-99 Mar-03 Mar-11 Mar-13 Mar-01 Mar-07

Large/Small Relative P/E Ratio (R1000 vs R2000)

# Rolling 5-Year Annualized Excess Return (03/95 - 03/15)

Large vs. Small

# HISTORICAL RELATIVE PERFORMANCE: LARGE CAP VALUE TO LARGE CAP GROWTH



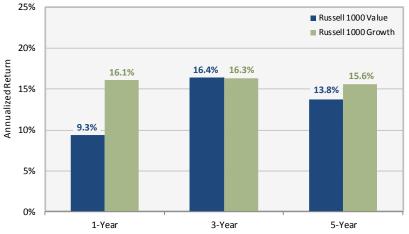
Large Value vs. Large Growth



### Large Value/Growth Relative P/E Ratio (R1000V vs R1000G)



#### Large Value vs. Large Growth **Recent Historical Performance**



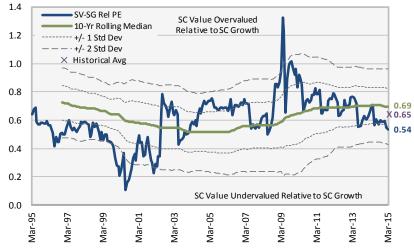
Summit Strategies Group

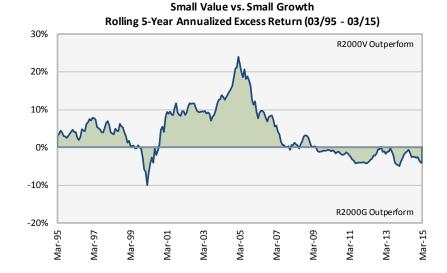
# HISTORICAL RELATIVE PERFORMANCE: SMALL CAP VALUE TO SMALL CAP GROWTH



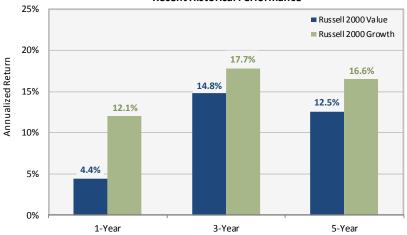
Small Value vs. Small Growth



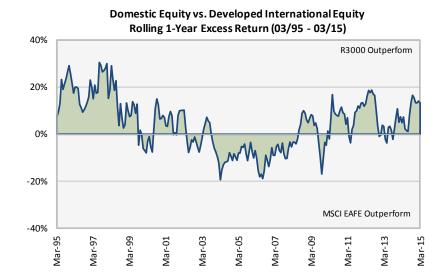




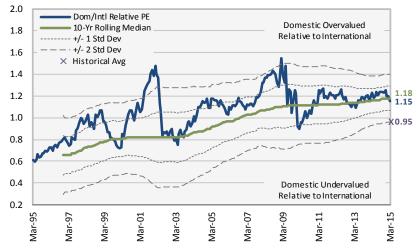
## Small Cap Value vs. Small Cap Growth **Recent Historical Performance**

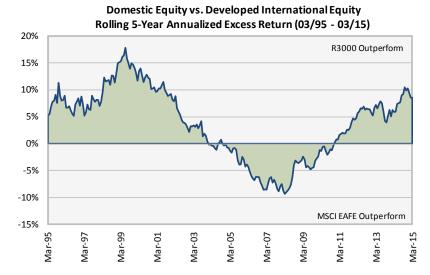


# HISTORICAL RELATIVE PERFORMANCE: DOMESTIC EQUITY TO DEVELOPED INTERNATIONAL EQUITY

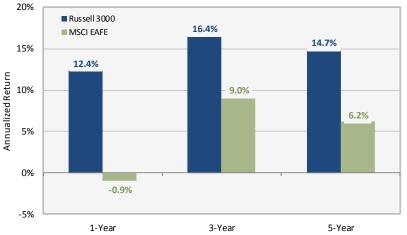


Domestic/International Relative P/E Ratio (R3000 vs MSCI EAFE)

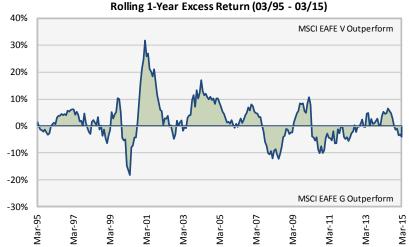




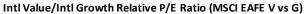
## Domestic Equity vs. Developed International Equity Recent Historical Performance

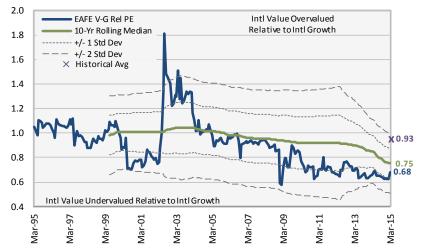


# HISTORICAL RELATIVE PERFORMANCE: INTERNATIONAL VALUE TO INTERNATIONAL GROWTH



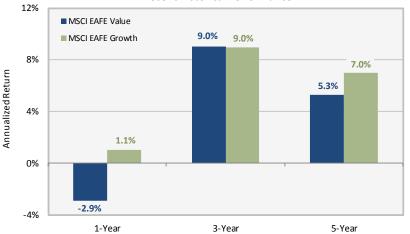
International Value vs. International Growth Rolling 1-Year Excess Return (03/95 - 03/15)



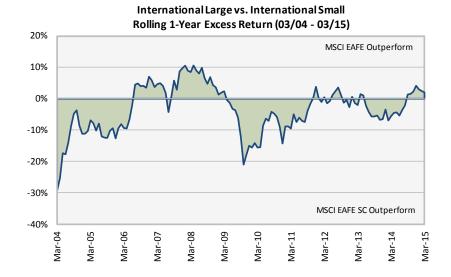


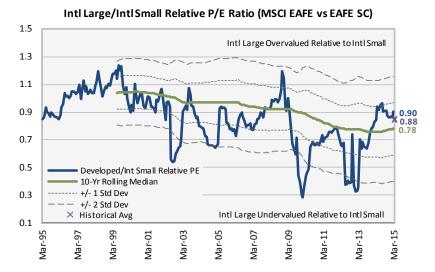


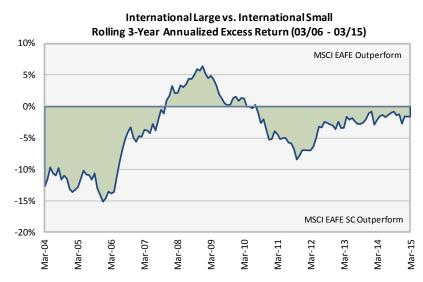
## International Value vs. International Growth Recent Historical Performance



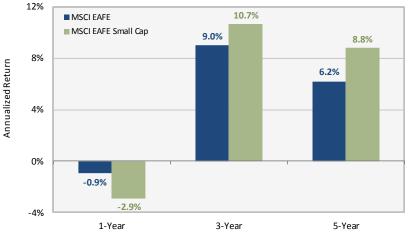
# HISTORICAL RELATIVE PERFORMANCE: INTERNATIONAL LARGE CAP TO INTERNATIONAL SMALL CAP



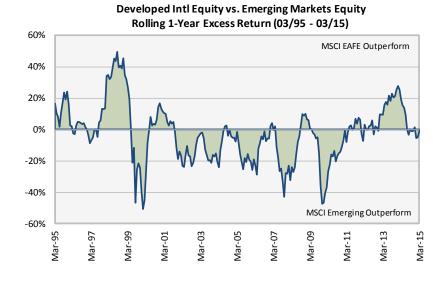


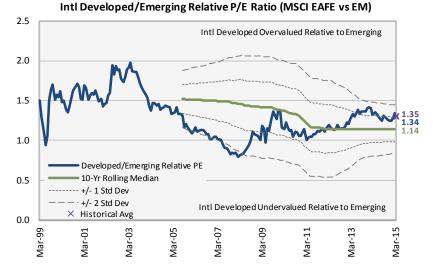


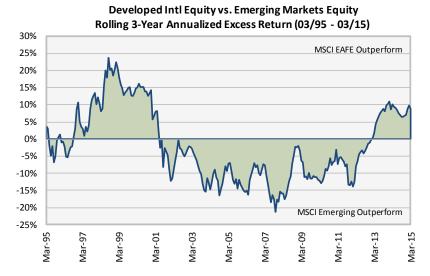
## International Large Equity vs. International Small Equity Recent Historical Performance



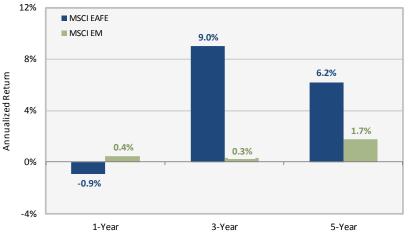
# HISTORICAL RELATIVE PERFORMANCE: DEVELOPED INTERNATIONAL TO EMERGING MARKETS



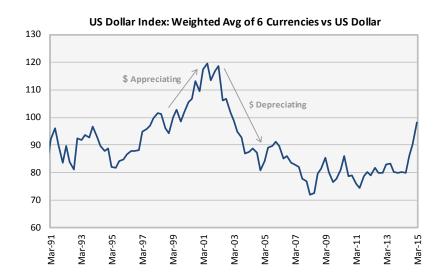


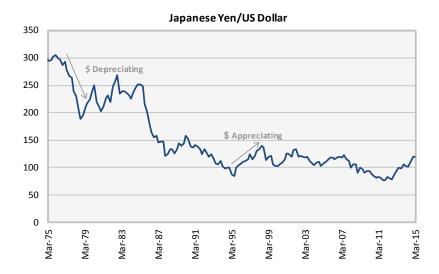


## Developed International Equity vs. Emerging Equity Recent Historical Performance

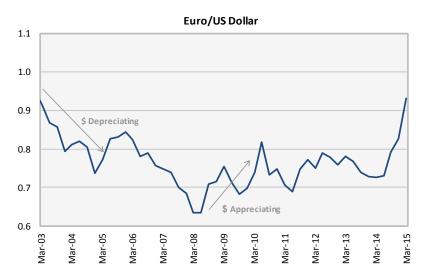


# **CURRENCY OVERVIEW**

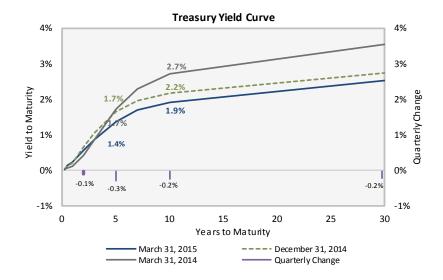






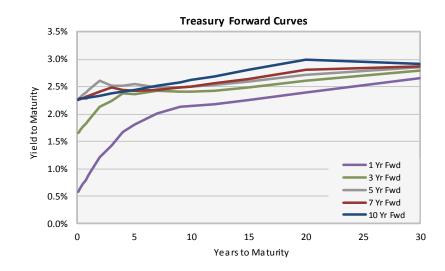


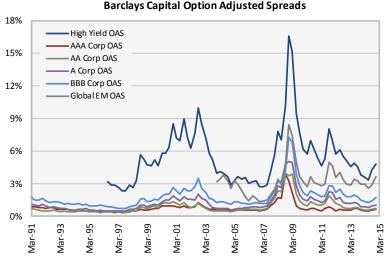
# **YIELD CURVE AND SPREAD ANALYSIS**



**History of the Treasury Yield Curve** Difference Between 30-Year & 2-Year Yields





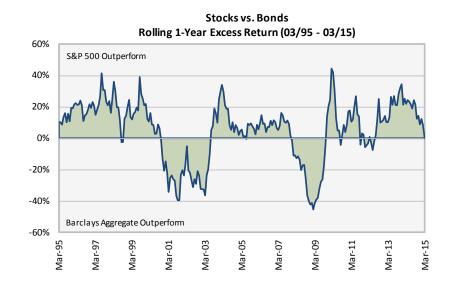


## **Barclays Capital Option Adjusted Spreads**

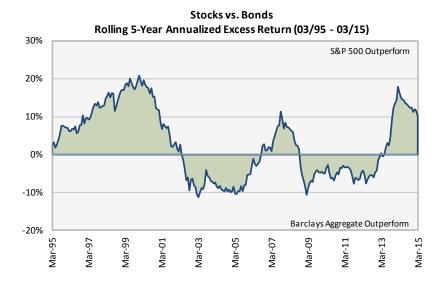
## **Relative Performance**

March 31, 2015

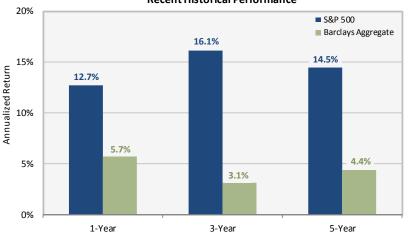
# HISTORICAL RELATIVE PERFORMANCE: STOCKS VS. BONDS



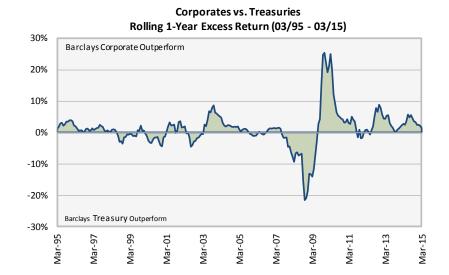
Fed Model (S&P 500 P/E vs 1/10YR Treasury Yield) 2.0 Stocks Overvalued Relative to Bonds 1.6 1.2 (1.02 Mmm 0.8 Fed Model 0 51 10-Yr Rolling Median 0.4 0.35 +/- 1 Std Dev --+/- 2 Std Dev Stocks Undervalued × Historical Avg Relative to Bonds 0.0 Mar-95 Mar-99 Mar-03 Mar-05 Mar-09 Mar-13 Mar-15 Mar-97 Mar-07 Mar-11 Mar-01



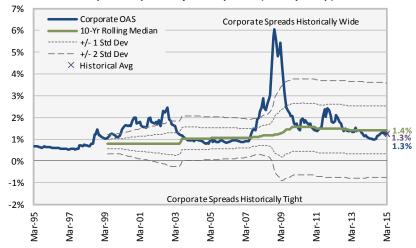
#### Stocks vs. Bonds Recent Historical Performance

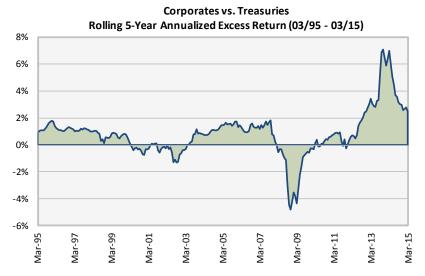


# HISTORICAL RELATIVE PERFORMANCE: CORPORATE BONDS VS. TREASURIES

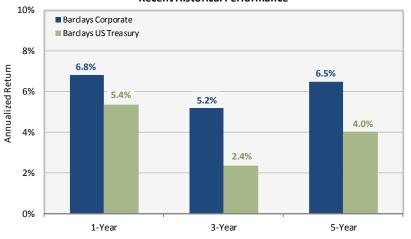


Corporate Option Adjusted Spreads (Barclays Corp)





#### Corporates vs. Treasuries Recent Historical Performance



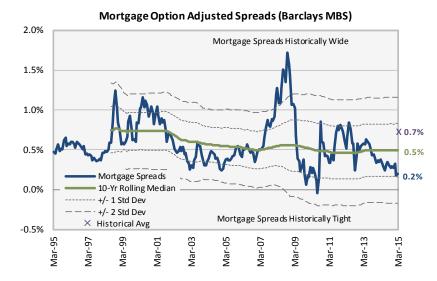
## Summit Strategies Group

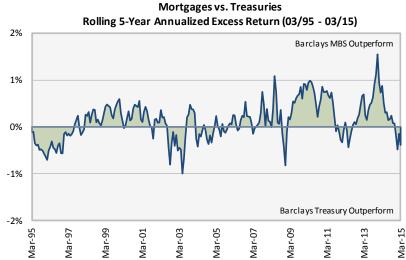
## **Relative Performance**

March 31, 2015

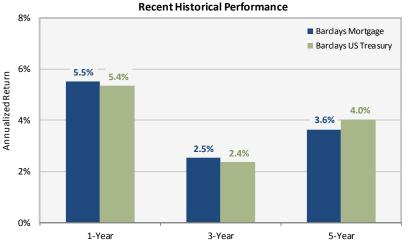
# HISTORICAL RELATIVE PERFORMANCE: MORTGAGES VS. TREASURIES







# Mortgages vs. Treasuries



## **Relative Performance**

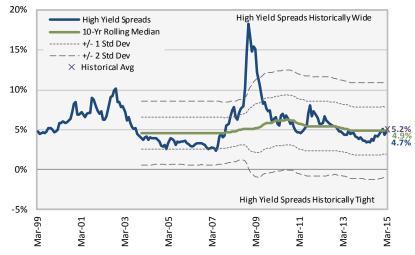
March 31, 2015

# HISTORICAL RELATIVE PERFORMANCE: HIGH YIELD BONDS VS. TREASURIES



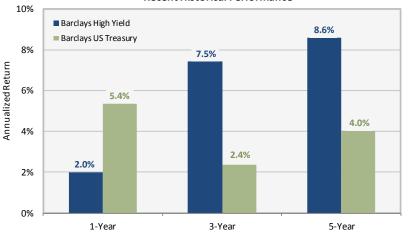
**High Yield vs. Treasuries** 

High Yield Option Adjusted Spreads (Barclays HY)

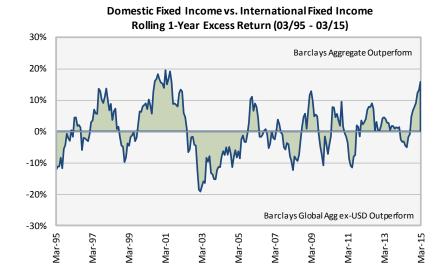




## **High Yield vs. Treasuries Recent Historical Performance**

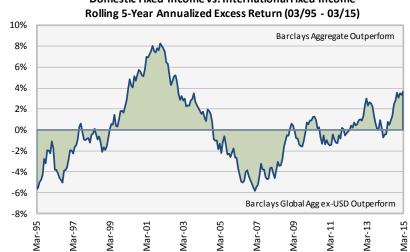


# HISTORICAL RELATIVE PERFORMANCE: DOMESTIC VS. INTERNATIONAL FIXED INCOME

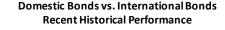


### Intl Option Adjusted Spreads (Barclays Global Aggregate exUSD)





#### Mar-99 Mar-03 Mar-07 Mar-01 Mar-05 Mar-09 Mar-11





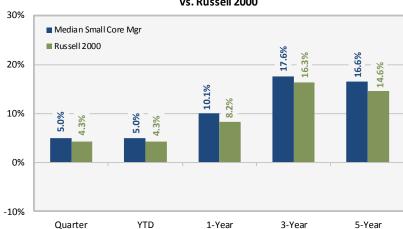
## **Universe Analysis**

March 31, 2015

# MEDIAN UNIVERSE CORE MANAGER RETURNS VS. INDEX RETURNS



Median Large Capitalization Core Equity Manager vs. S&P 500

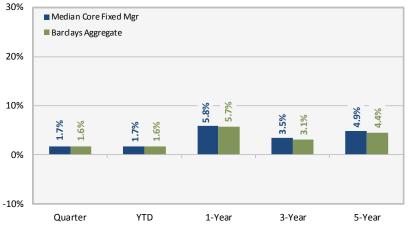


## Median Small Capitalization Core Equity Manager vs. Russell 2000

Median International Core Equity Manager vs. MSCI EAFE



## Median Core Fixed Income Manager vs. Barclays Aggregate



# Universe Analysis

March 31, 2015

# MEDIAN UNIVERSE EQUITY STYLE MANAGER RETURNS VS. INDEX STYLE RETURNS



## Median Large Capitalization Growth Equity Manager vs. Russell 1000 Growth

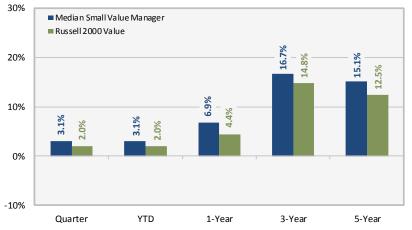


## Median Large Capitalization Value Equity Manager vs. Russell 1000 Value

Median Small Capitalization Growth Equity Manager vs. Russell 2000 Growth



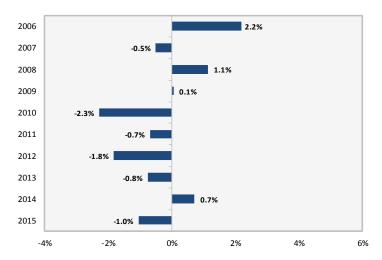
## Median Small Capitalization Value Equity Manager vs. Russell 2000 Value



# Universe Analysis

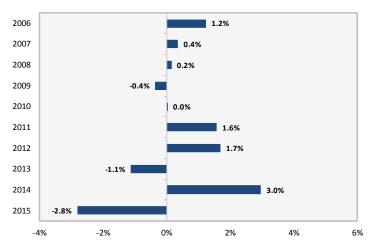
March 31, 2015

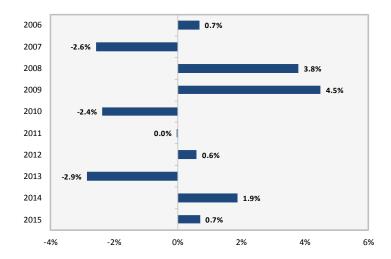
# MEDIAN UNIVERSE EQUITY STYLE MANAGER ONE-YEAR RETURN DIFFERENTIAL ENDING MARCH 31: 10 YEARS



Median Large Capitalization Growth Equity Manager vs. Russell 1000 Growth

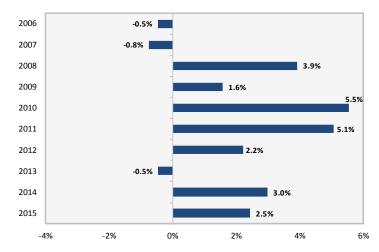
## Median Small Capitalization Growth Equity Manager vs. Russell 2000 Growth





Median Large Capitalization Value Equity Manager vs. Russell 1000 Value

Median Small Capitalization Value Equity Manager vs. Russell 2000 Value



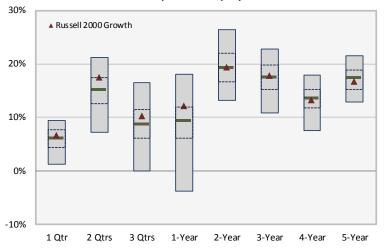
Summit Strategies Group

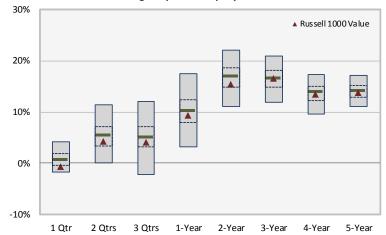
# **UNIVERSE EQUITY STYLE MANAGERS**



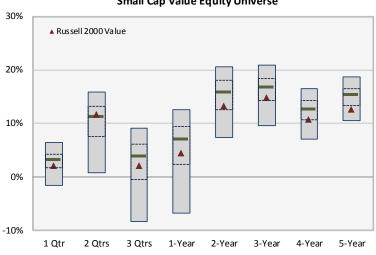
Large Cap Growth Equity Universe

Small Cap Growth Equity Universe





## Large Cap Value Equity Universe



## Small Cap Value Equity Universe

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