



The City of Grand Rapids – Police and Fire Retirement System

Executive Summary of Investment Performance

September 30, 2014



Investment Performance	Tab 1
------------------------	-------

Capital Market Review Tab 2

Appendix

Total Fund

Policy Allocation vs Actual Allocation

Total Fund Composite

As of September 30, 2014

Policy Allocation Actual Allocation (in \$'000s) Non - US Non - US Equity Equity \$57,044 15.0% 14.4% Fixed Income Fixed Income \$117,261 30.0% 29.5% **US Equity** \$176,950 44.5% **US** Equity 40.0% Real Estate Real Estate 5.0% \$19,257 4.8% Private Equity Cash **Commodities** Private Equity \$2,631 5.0% Commodities 5.0% \$5,339 0.7% \$18,968 1.3% 4.8%

Total Assets: \$397,451,000

Policy Allocation vs Actual Allocation



Total Fund Composite As of September 30, 2014

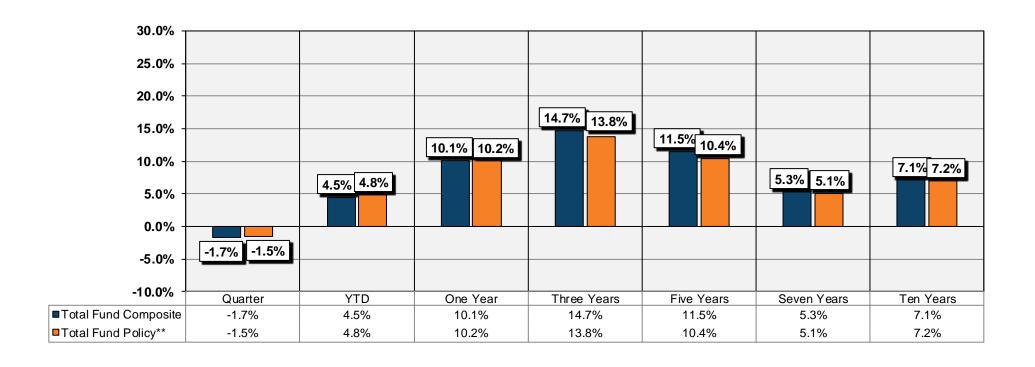
US Equity
Non - US Equity
Fixed Income
Real Estate
Private Equity
Commodities
Cash
Total Fund Composite

Market Value (in \$1000e)	Asset Al	location
Market Value (in \$'000s)	Actual	Policy
\$176,950	44.52%	40.00%
\$57,044	14.35%	15.00%
\$117,261	29.50%	30.00%
\$19,257	4.85%	5.00%
\$5,339	1.34%	5.00%
\$18,968	4.77%	5.00%
\$2,631	0.66%	0.00%
\$397,451	100.00%	100.00%

Wilshire

Investment Performance

Total Fund Composite*



^{*}Returns are net of fees

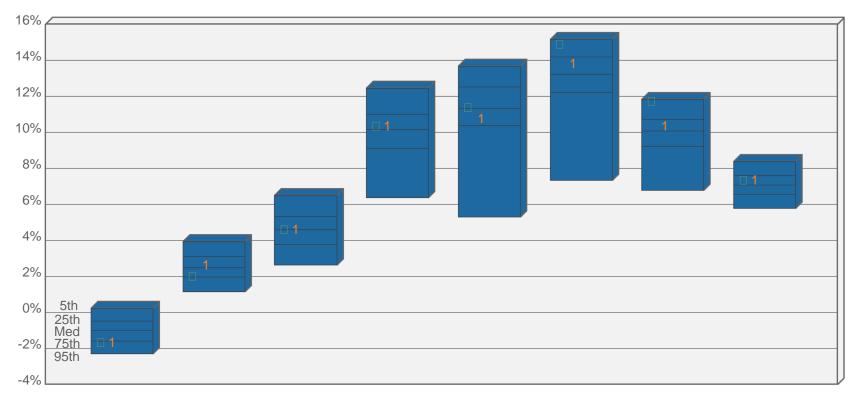
^{**} Policy index = Wilshire 5000 (40%), MSCI ACWI ex U.S. (15%), Barclays Aggregate (30%), FTSE EPRA NAREIT Dev RE (5%), Wilshire 5000 +2.5% (5%), DJ UBS Commodity Index (5%)

Performance Comparison



Total Fund Composite

Periods Ended September 30, 2014



	i Quarter	2 Quarters	3 Quarters	i i eai	Z Tears	3 Teals	5 Teals	TO Tears	
Total FundPolicy Index	-1.60 (76) -1.50 (72)	2.11 (69) 2.64 (43)	4.67 (46) 4.81 (43)	10.42 (43) 10.23 (47)	11.47 (47) 10.79 (66)	14.99 (10) 13.83 (35)	11.82 (5) 10.37 (37)	7.42 (29) 7.15 (46)	
5th %tile 25th %tile Median 75th %tile 95th %tile Number of Funds	0.24 -0.46 -1.00 -1.59 -2.29 185	3.94 3.12 2.48 1.98 1.17 183	6.48 5.33 4.59 3.79 2.65 182	12.45 11.01 10.17 9.13 6.38 182	13.70 12.54 11.36 10.37 5.32 180	15.16 14.20 13.23 12.25 7.33 174	11.82 10.71 10.08 9.25 6.79 162	8.39 7.61 7.08 6.56 5.81 129	

1 Vear

2 Vears

3 Vears

5 Years

3 Quarters

1 Quarter

2 Quarters

10 Vears

Performance Comparison



Trailing Returns

	1 Qtr	YTD	1 Year	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Incept Date	Incept Ret
U.S. Equity Composite									
Net of Fee Return	-0.56	6.63	17.21	23.64	16.40	6.77	8.88	9/30/87	9.37
Wilshire 5000	0.08	7.08	17.91	22.82	15.66	6.21	8.49	9/30/87	9.39
Value Added	-0.64	-0.46	-0.70	0.83	0.74	0.56	0.39	9/30/87	-0.02
Fixed Income Composite									
Net of Fee Return	0.37	5.65	5.97	4.74	6.91	5.91	5.36	9/30/87	7.33
Barclays Aggregate	0.17	4.10	3.96	2.43	4.12	4.95	4.62	9/30/87	6.99
Value Added	0.20	1.55	2.01	2.31	2.78	0.96	0.74	9/30/87	0.34
Non-U.S. Equity Composite									
Net of Fee Return	-5.85	-2.67	1.49	11.97	8.02	-0.33	5.01	12/31/89	8.43
Policy Benchmark	-5.27	0.00	4.77	11.79	6.03	-0.16	6.82	12/31/89	4.70
Value Added	-0.59	-2.67	-3.28	0.18	1.99	-0.17	-1.80	12/31/89	3.72
Real Estate Composite									
Net of Fee Return	-4.88	5.92	6.45	13.86	9.44			6/30/09	13.74
FTSE EPRA/NAREIT Dev (N)	-4.59	6.61	5.91	14.80	10.49			6/30/09	14.73
Value Added	-0.29	-0.69	0.54	-0.95	-1.05			6/30/09	-0.99
Commodities Composite									
Net of Fee Return	-8.81	-2.32	-5.06					3/31/13	-8.47
DJ UBS Commodity Index	-11.83	-5.59	-6.58					3/31/13	-9.28
Value Added	3.02	3.27	1.52					3/31/13	0.82
Alternative Investments Composite									
Net of Fee Return	3.80	11.71	14.43	5.76				6/30/10	5.55
Wilshire 5000 +2.5%	0.70	8.96	20.41	25.32				6/30/10	21.27
Value Added	3.10	2.75	-5.97	-19.55				6/30/10	-15.73

Police & Fire

Performance Comparison

W Wilshire

Trailing Returns

	1 Qtr	YTD	1 Year	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Incept Date	Incept Re
otal Fund									
Net of Fee Return	-1.66	4.47	10.13	14.70	11.50	5.32	7.13	9/30/87	8.57
Policy Index	-1.50	4.81	10.23	13.83	10.37	5.06	7.15	9/30/87	8.69
Value Added	-0.17	-0.35	-0.10	0.87	1.12	0.26	-0.02	9/30/87	-0.12

Police & Fire Wilshire

Custom Benchmark Specification

Total Fund

September 30, 2014

	Quarter Start	Quarter End	Percent	Description
Policy Index	12/79	6/98	55.00	Wilshire 5000
olloy Indox	12/73	0,00	40.00	Barclays Aggregate
			5.00	MSCI EAFE Index (N)
	9/98	9/02	50.00	Wilshire 5000
	3,33	0,02	40.00	Barclays Aggregate
			10.00	MSCI EAFE Index (N)
	12/02	3/06	50.00	Wilshire 5000
			35.00	Barclays Aggregate
			15.00	MSCI EAFE Index (N)
	6/06	6/06	55.00	Wilshire 5000
			30.00	Barclays Aggregate
			15.00	MSCI EAFE Index (N)
	9/06	6/09	55.00	Wilshire 5000
			30.00	Barclays Aggregate
			15.00	MSCI ACWI X US (N)
	9/09	3/10	5.00	FTSE EPRA/NAREIT Dev (N)
			15.00	MSCI ACWI X US (N)
			30.00	Barclays Aggregate
			50.00	Wilshire 5000
	6/10	12/12	5.00	FTSE EPRA/NAREIT Dev (N)
			5.00	Wilshire 5000 + 2.5%
			30.00	Barclays Aggregate
			15.00	MSCI ACWI X US (N)
			45.00	Wilshire 5000
	3/13	9/14	5.00	FTSE EPRA/NAREIT Dev (N)
			40.00	Wilshire 5000
			15.00	MSCI ACWI X US (N)
			30.00	Barclays Aggregate
			5.00	Wilshire 5000 + 2.5%

Custom Benchmark Specification



Total Fund

September 30, 2014

	Quarter Start	Quarter End	Percent	Description
Policy Index (cont.)			5.00	Bloomberg Commodity Index

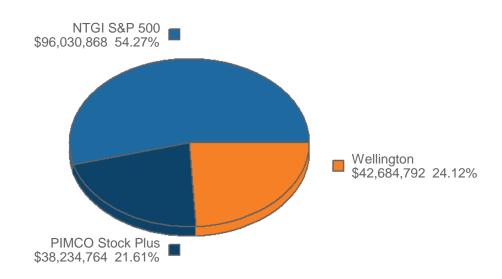
U.S. Equity

Manager Allocation



U.S. Equity Composite

As of September 30, 2014



Performance Comparison



Trailing Returns

	1 Qtr	YTD	1 Year	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Incept Date	Incept Re
NTGI S&P 500									
Net of Fee Return	1.12	8.31	19.70	23.00	15.70	5.91	8.25	9/30/98	6.46
Policy Benchmark	1.13	8.35	19.74	22.99	15.69	6.02	8.29	9/30/98	6.46
Value Added	-0.00	-0.03	-0.04	0.01	0.00	-0.10	-0.05	9/30/98	-0.00
PIMCO Stock Plus									
Net of Fee Return	1.18	9.66	21.41	26.27	18.03	7.44	9.00	9/30/00	5.08
Standard & Poor's 500	1.13	8.35	19.74	22.99	15.69	6.02	8.11	9/30/00	4.29
Value Added	0.05	1.31	1.66	3.28	2.34	1.42	0.89	9/30/00	0.78
Wellington									
Net of Fee Return	-5.52	-0.22	9.49	25.34	18.69	9.70	11.07	9/30/99	11.35
Russell 2000	-7.36	-4.41	3.93	21.26	14.28	6.04	8.19	9/30/99	7.93
Value Added	1.84	4.18	5.56	4.08	4.40	3.65	2.88	9/30/99	3.42
U.S. Equity Composite									
Net of Fee Return	-0.56	6.63	17.21	23.64	16.40	6.77	8.88	9/30/87	9.37
Wilshire 5000	0.08	7.08	17.91	22.82	15.66	6.21	8.49	9/30/87	9.39
Value Added	-0.64	-0.46	-0.70	0.83	0.74	0.56	0.39	9/30/87	-0.02

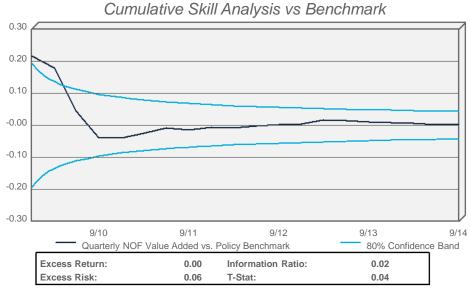


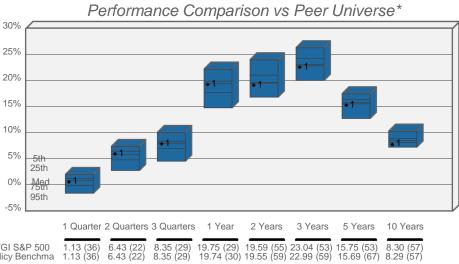
NTGI S&P 500

Median

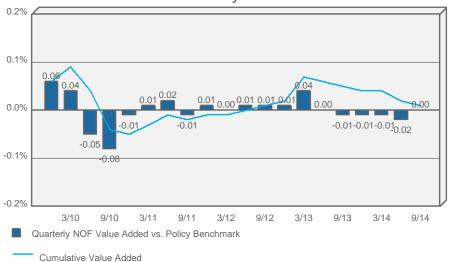
Number of Funds

September 30, 2014

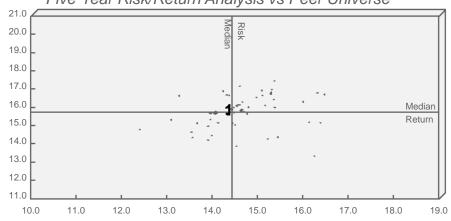




Value-Added Analysis vs Benchmark



Five Year Risk/Return Analysis vs Peer Universe*



		Gross F	Fee Ret	Standard Deviation		
Description	Legend	Value	Rank	Value	Rank	
NTGI S&P 500	•	15.75	53	14.45	48	
Policy Benchmark	1	15.69	67	14.43	52	
Median		15.75		14.44		

23.05

15.75

8.47

113

19.32

7.99

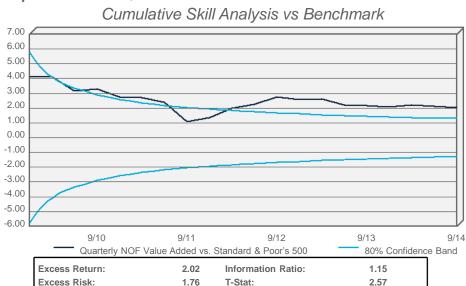


PIMCO Stock Plus

September 30, 2014

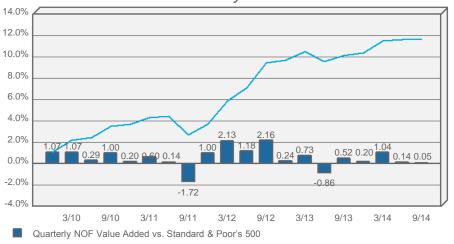
Median

Number of Funds



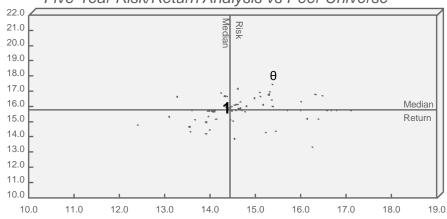
Performance Comparison vs Peer Universe* 25% 20% 15% 10% 25th 95th 1 Quarter 2 Quarters 3 Quarters 1.18 (22) 6.63 (12) 9.66 (7) 21.41 (11) 20.70 (27) 26.27 (7) 18.03 (3) 1.13 (36) 6.43 (22) 8.35 (29) 19.74 (30) 19.55 (59) 22.99 (59) 15.69 (67)

Value-Added Analysis vs Benchmark



Cumulative Value Added

Five Year Risk/Return Analysis vs Peer Universe*



		Gross F	Fee Ret	Standard Deviation		
Description	Legend	Value	Rank	Value	Rank	
PIMCO Stock Plus	θ	18.03	3	15.48	18	
Standard & Poor's 500	1	15.69	67	14.43	52	
Median		15.75		14.44		

19.64

23.05

15.75

8.47

113

19.32

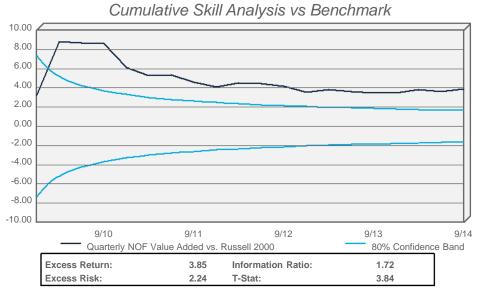


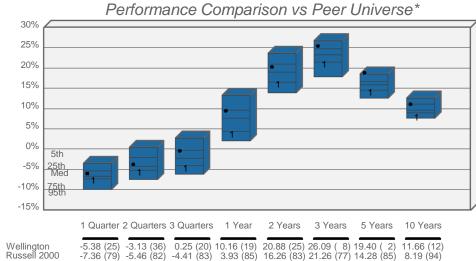
Wellington

Median

Number of Funds

September 30, 2014



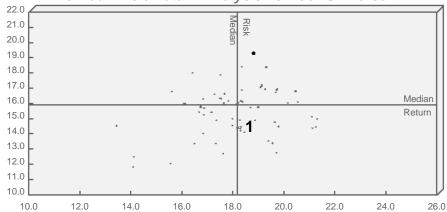


Value-Added Analysis vs Benchmark



Cumulative Value Added

Five Year Risk/Return Analysis vs Peer Universe*



		Gross F	Fee Ret	Standard Deviation		
Description	Legend	Value	Rank	Value	Rank	
Wellington	•	19.40	2	19.02	30	
Russell 2000	1	14.28	85	18.77	33	
Median		15.92		18.18		

15.92

9.66

-2.32

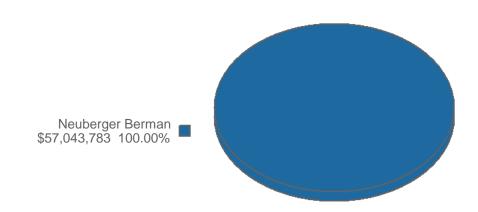
Non - U.S. Equity

Manager Allocation



Non-U.S. Equity Composite

As of September 30, 2014



Police & Fire

Performance Comparison



Trailing Returns

	1 Qtr	YTD	1 Year	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Incept Date	Incept Re
Neuberger Berman									
Net of Fee Return	-5.85	-2.67	1.49	11.97	8.02	-0.33		6/30/06	2.46
MSCI ACWI X US (N)	-5.27	0.00	4.77	11.79	6.03	-0.16		6/30/06	3.62
Value Added	-0.59	-2.67	-3.28	0.18	1.99	-0.17		6/30/06	-1.16
Non-U.S. Equity Composite									
Net of Fee Return	-5.85	-2.67	1.49	11.97	8.02	-0.33	5.01	12/31/89	8.43
Policy Benchmark	-5.27	0.00	4.77	11.79	6.03	-0.16	6.82	12/31/89	4.70
Value Added	-0.59	-2.67	-3.28	0.18	1.99	-0.17	-1.80	12/31/89	3.72



Neuberger Berman

-5.27 (60) -0.50 (53)

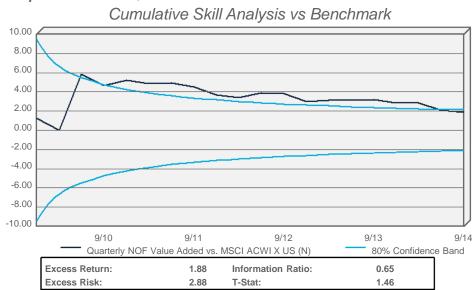
Number of Funds

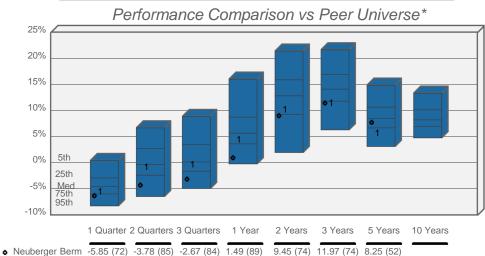
0.00 (55)

0.23

2185

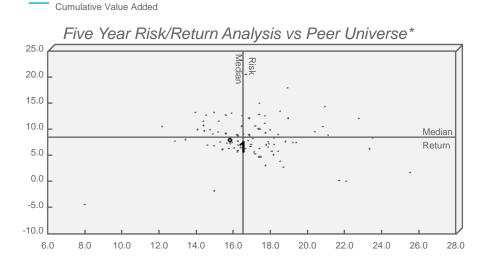
September 30, 2014





Value-Added Analysis vs Benchmark 12.0% 10.0% 8.0% 6.0% 4.0% 2.0% 1.16 0.84 0.93 -0.31-0.49 -0.59 -2.0% -1.58 -4.0% 3/10 9/10 3/12 9/12 3/13

Quarterly NOF Value Added vs. MSCI ACWI X US (N)



		Gross F	Fee Ret	Standard Deviation		
Description	Legend	Value	Rank	Value	Rank	
Neuberger Berman	۰	8.25	52	16.10	62	
MSCI ACWI X US (N)	1	6.03	82	16.68	47	
Median		8.43		16.53		

14.18

1776

8.22

1336

4.77 (62)

2158

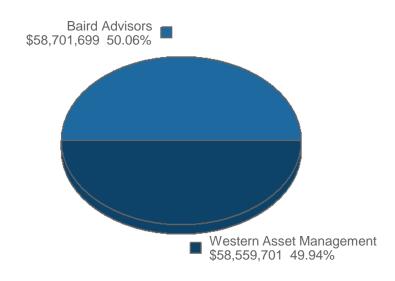
Fixed Income

Manager Allocation



Fixed Income Composite

As of September 30, 2014



Performance Comparison



Trailing Returns

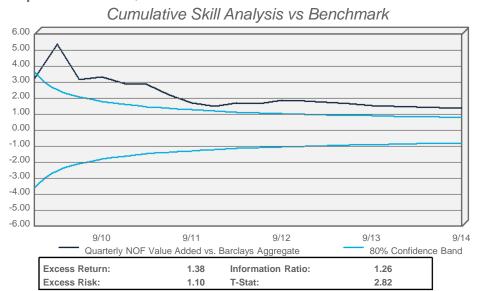
	1 Qtr	YTD	1 Year	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Incept Date	Incept Re
Baird Advisors									
Net of Fee Return	0.35	4.77	4.76	3.63	5.56	5.26	4.92	3/31/03	4.85
Barclays Aggregate	0.17	4.10	3.96	2.43	4.12	4.95	4.62	3/31/03	4.55
Value Added	0.18	0.67	0.80	1.19	1.44	0.31	0.30	3/31/03	0.31
Western Asset Management									
Net of Fee Return	0.39	6.54	7.17	5.72	8.12	6.38	5.67	3/31/04	5.55
Barclays Aggregate	0.17	4.10	3.96	2.43	4.12	4.95	4.62	3/31/04	4.47
Value Added	0.23	2.44	3.22	3.29	4.00	1.43	1.05	3/31/04	1.08
Fixed Income Composite									
Net of Fee Return	0.37	5.65	5.97	4.74	6.91	5.91	5.36	9/30/87	7.33
Barclays Aggregate	0.17	4.10	3.96	2.43	4.12	4.95	4.62	9/30/87	6.99
Value Added	0.20	1.55	2.01	2.31	2.78	0.96	0.74	9/30/87	0.34

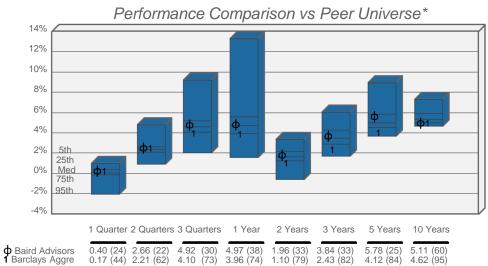


Baird Advisors

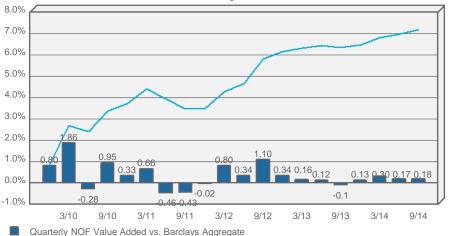
Number of Funds

September 30, 2014



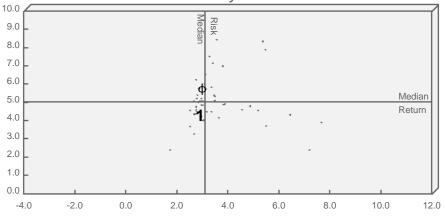


Value-Added Analysis vs Benchmark



Cumulative Value Added

Five Year Risk/Return Analysis vs Peer Universe*



		Gross F	Fee Ret	Standard Deviation		
Description	Legend	Value	Rank	Value	Rank	
Baird Advisors	ф	5.78	25	3.11	48	
Barclays Aggregate	1	4.12	84	3.03	57	
Median		5.01		3.10		

5.34

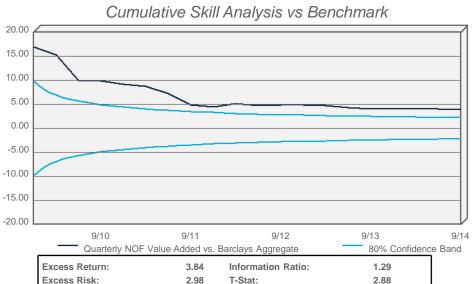


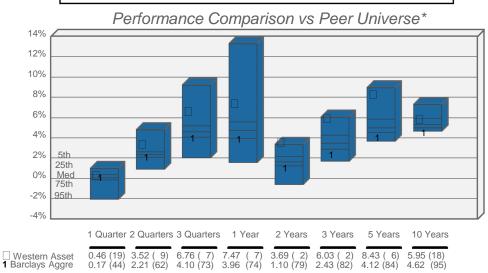
Western Asset Management

September 30, 2014

Median

Number of Funds





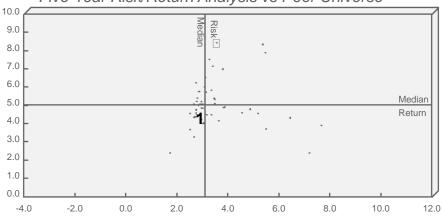
Value-Added Analysis vs Benchmark



Quarterly NOF Value Added vs. Barclays Aggregate

Cumulative Value Added

Five Year Risk/Return Analysis vs Peer Universe*



		Gross F	Fee Ret	Standard Deviation		
Description	Legend	Value	Rank	Value	Rank	
Western Asset Management		8.43	6	3.68	26	
Barclays Aggregate	1	4.12	84	3.03	57	
Median		5.01		3.10		

110

5.01

5.34

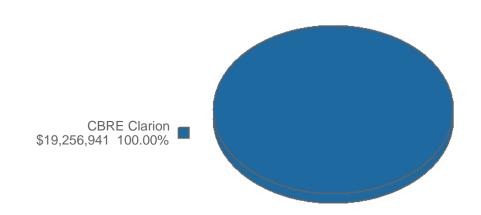
Real Estate

Manager Allocation



Real Estate Composite

As of September 30, 2014



Performance Comparison



Trailing Returns

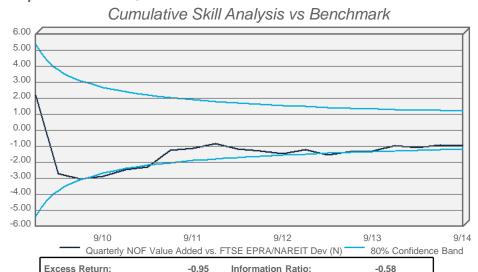
	1 Qtr	YTD	1 Year	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Incept Date	Incept Re
VOYA / CBRE Clarion									
Net of Fee Return	-4.88	5.92	6.45	13.86	9.44			6/30/09	13.74
FTSE EPRA/NAREIT Dev (N)	-4.59	6.61	5.91	14.80	10.49			6/30/09	14.73
Value Added	-0.29	-0.69	0.54	-0.95	-1.05			6/30/09	-0.99
Real Estate Composite									
Net of Fee Return	-4.88	5.92	6.45	13.86	9.44			6/30/09	13.74
FTSE EPRA/NAREIT Dev (N)	-4.59	6.61	5.91	14.80	10.49			6/30/09	14.73
Value Added	-0.29	-0.69	0.54	-0.95	-1.05			6/30/09	-0.99



VOYA / CBRE Clarion

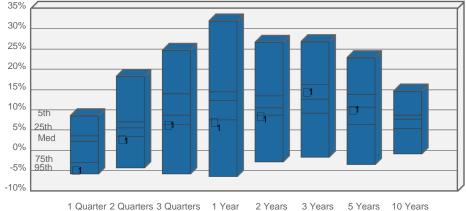
September 30, 2014

Excess Risk:



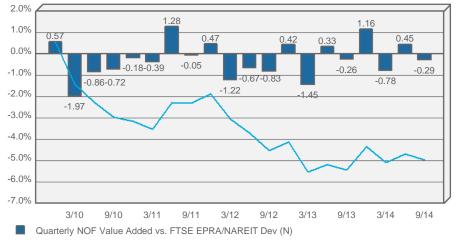
T-Stat: Performance Comparison vs Peer Universe*

-1.31



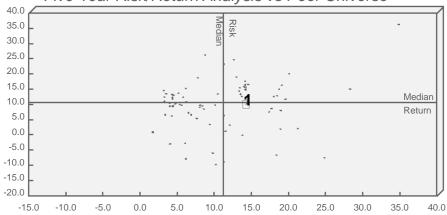
			,				
□VOYA/CBRE 1 FTSE EPRA/NA						14.69 (38) 14.80 (37)	
Median Number of Funds	2.21 559	5.48 574	8.72 573	12.22 567	10.44 516	12.54 472	 7.61 128

Value-Added Analysis vs Benchmark



Five Year Risk/Return Analysis vs Peer Universe*

Cumulative Value Added



		Gross F	ee Ret	Standard Deviation		
Description	Legend	Value	Rank	Value	Rank	
VOYA/CBRE Clarion		10.24	54	14.73	27	
FTSE EPRA/NAREIT Dev (N)	1	10.49	51	14.94	27	
Median		10.63		11.26		

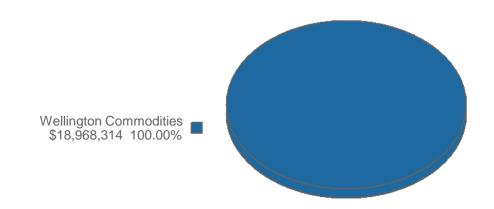
Commodities

Manager Allocation



Commodities Composite

As of September 30, 2014



Performance Comparison



Trailing Returns

	1 Qtr	YTD	1 Year	3 Yrs	5 Yrs	7 Yrs	10 Yrs	Incept Date	Incept Ret
Wellington Commodities									
Net of Fee Return	-8.81	-2.32	-5.06					3/31/13	-8.47
DJ UBS Commodity Index	-11.83	-5.59	-6.58					3/31/13	-9.28
Value Added	3.02	3.27	1.52						0.82
Commodities Composite									
Net of Fee Return	-8.81	-2.32	-5.06					3/31/13	-8.47
DJ UBS Commodity Index	-11.83	-5.59	-6.58					3/31/13	-9.28
Value Added	3.02	3.27	1.52						0.82

Private Equity

W Wilshire

Investment Manager Performance

Private Partnerships As of September 30, 2014

Partnership	Commitment	Inception Date	Capital Cal	led	Capital Distri	al Distributed To		Total Value /	Annualized
raitheiship	Value	inception bate	Amount	%	Amount	%	ran value	Paid-In Capital 1	IRR
Adams Street Direct 2010 Fund	\$500,000	April 27, 2010	\$440,236	88%	\$48,246	10%	\$557,765	1.38	15.38%
Adams Street Non-US Dev. 2010 Fund	\$1,500,000	April 27, 2010	\$642,284	43%	\$43,228	3%	\$724,188	1.19	8.97%
Adams Street Non-US EM 2010 Fund	\$500,000	January 3, 2011	\$269,000	54%	\$0	0%	\$271,546	1.01	0.69%
Adams Street US 2010 Fund	\$2,500,000	April 27, 2010	\$1,068,760	43%	\$104,933	4%	\$1,358,035	1.37	13.62%
Adams Street 2013 Global Fund	\$5,000,000	July 3, 2013	\$868,215	17%	\$0	0%	\$890,082	1.03	4.16%
Flag Global Partners	\$5,000,000	January 17, 2012	\$1,800,000	36%	\$217,333	4%	\$1,537,813	0.98	-1.78%
Alternative Investments Composite	\$15,000,000	April 27, 2010	\$5,088,495	34%	\$413,740	3%	\$5,339,429	1.13	7.68%

¹ TVPI = Fair Value + Capital Distributed / Capital Called

Capital Market Review

Market Commentary



U.S. Equity

The U.S. stock market was basically flat for the third quarter, up 0.1%. Only a strong August prevented the first down quarter in two years as the market lost ground in both July and September. Both equity and fixed income markets experienced a hectic quarter as investors were faced with numerous geopolitical events such as continued problems in Ukraine, U.S. military involvement in Iraq and Syria and pro-democracy protests in Hong Kong. Also looming large is the coming end to the Federal Reserve's third round of quantitative easing.

Large capitalization stocks dramatically outperformed smaller shares during the third quarter. Results for growth stocks versus value were mixed. From a sector perspective, Health Care and Technology were the clear winners while Energy was the primary laggard, hurt by lower oil prices.

Breakeven inflation, essentially the market's forecast for future inflation, moved meaningfully lower in August and September. By quarter-end, the ten-year forecast sat at 2.0%. The most recent news to affect the rate was the release of August economic data that showed that prices, in aggregate, fell by -0.2%. It should be noted that ten-year breakeven fell below 2% during the summer of 2013 only to move back to 2.2% one month later.

Non-U.S. Equity

Europe's fiscal woes continued into the third quarter as investors digested sluggish economies on the Continent, ongoing saber-rattling between Russia and Ukraine to the region's east and the contentious referendum in Scotland seeking political independence from Great Britain, ultimately rejected. The European Central Bank actually drove short-term rates into negative territory to spark economic activity in the region. Pacific regional markets, in contrast, managed moderate gains despite a second-quarter contraction in the Japanese economy.

Fixed Income

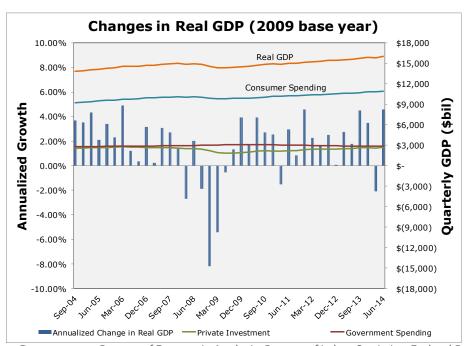
The U.S. Treasury yield curve flattened somewhat for the third quarter; very short-term yields as well as rates beyond ten years moved lower, while rates on intermediate-term securities rose slightly. Credit spreads widened during the quarter. With short-term rates in Europe now officially negative, investors moved up the curve into longer-term issuance, giving long-dated global bonds a performance boost. Emerging market debt eked out small gains overall despite weakness in major developing economies as well as uncertainty as to the timing of tighter U.S. Fed policy. The strong U.S. dollar, however, erased this quarter's global market gains for U.S.-based investors.

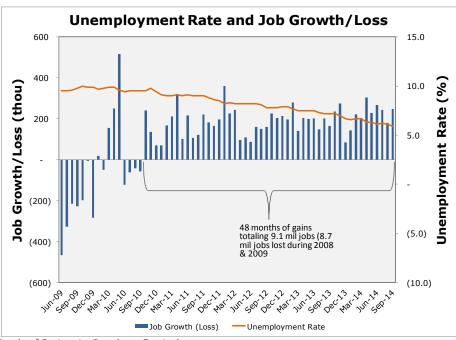
Economic Review



September 30, 2014		Key Ecor	nomic Indicators	
CPI (all items)	Monthly C	hange	Cumulati	ve Change
Seasonally adjusted	Sep-14	0.1	3-Month	0.0
	Aug-14	-0.2	12-Month	1.7
	Jul-14	0.1	10-Yr Annua	2.3
Breakeven Inflation	10-Year	2.0		
Consumer Sentiment	Sep-14	84.6		
Unv. of Michigan Survey	Aug-14	82.5		
	1-Yr Ago	77.5	10-Yr Avg	77.2
Manufacturing	Sep-14	56.6	Change in Manufac	turing Sector
Inst. for Supply Mgmt	Aug-14	59.0	>50	Expansion
Purchasing Mngrs' ldx	1-Yr Avg	55.6	<50	Contraction

Note: Seasonally adjusted CPI data is utilized to better reflect short-term pricing activity.





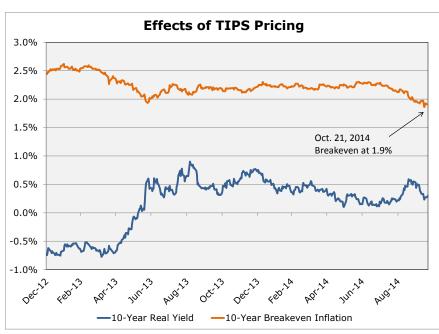
Data sources: Bureau of Economic Analysis, Bureau of Labor Statistics, Federal Reserve Bank of St. Louis, Barclays Capital

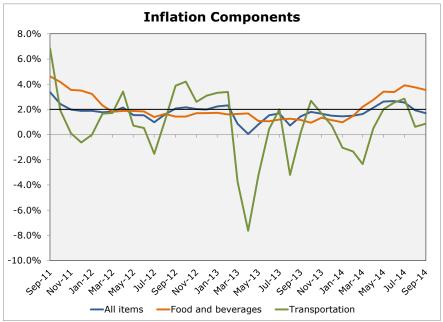
Inflation



- Real-yield on 10-year TIPS remains in positive territory
- Nominal yield has fallen along with inflation expectations

- Actual inflation has been moderate, typically running near the Fed's target of 2%
- Food prices are trending higher while transportation costs are down on lower oil prices

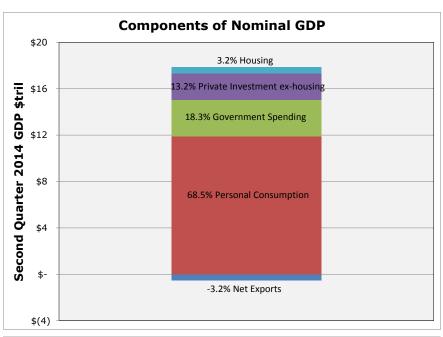


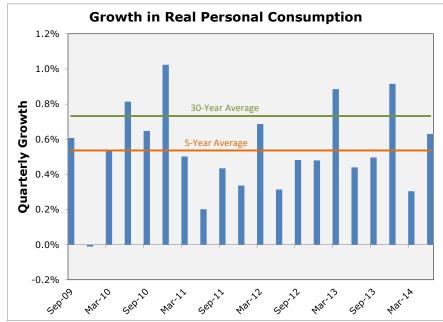


GDP Growth since Recession



- Q2 marked 5 years since the official end of the latest recession
- Real GDP growth has been moderate at 2.2% versus a 30year average of 2.7%
- Largest component of GDP is personal consumption
- Growth in real personal consumption has been hampered by consumers deleveraging and employment conditions
- Average quarterly growth for the past 5 years has been 0.54%, versus a 30 year average of 0.73%



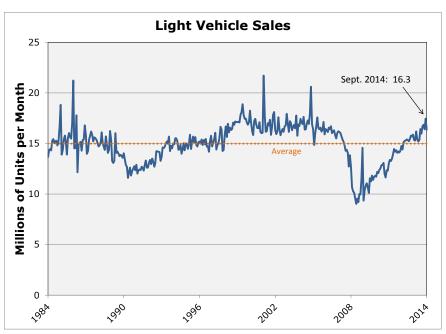


Discretionary Spending



 Spending on autos and light trucks has rebounded and is currently at levels not seen since 2006

- Housing starts continue to recover
- Multi-family starts (rentals) have driven much of the growth
- Unfortunately, the single-family market generates more spending at places like home improvement stores

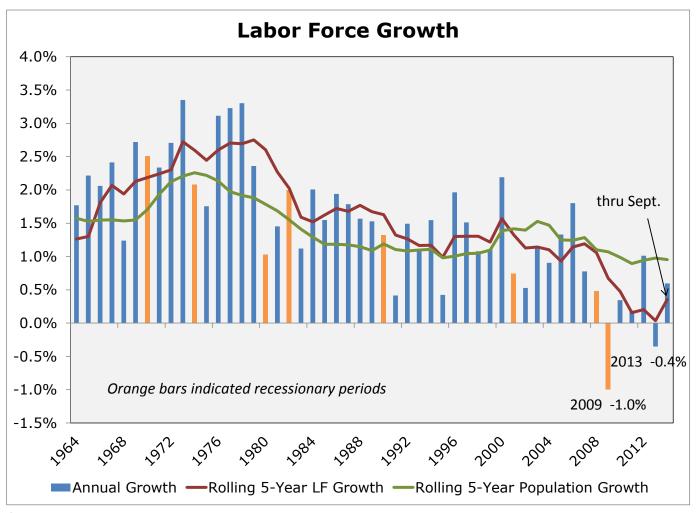




Employment Conditions



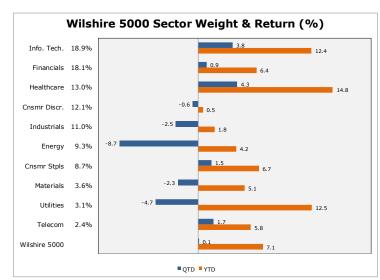
- U.S. has recovered all of the jobs lost during the recession
- Labor Force currently 1.2 million larger than it was at year-end 2008, despite a population growth (of those 16 and older) of 13 million



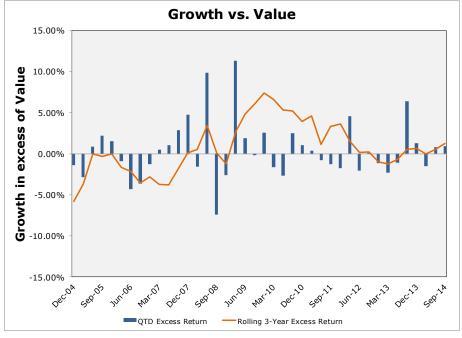
U.S. Equity Market



September 30, 2014	Qtr	Ytd	1 Yr	3 Yr	5 Yr	10 Yr
Wilshire 5000	0.1	7.1	17.9	22.8	15.7	8.5
Wilshire U.S. Large Cap	0.8	8.1	19.1	22.7	15.6	8.3
Wilshire U.S. Small Cap	-6.2	-0.8	8.2	23.4	16.3	10.1
Wilshire U.S. Large Growth	1.5	8.4	20.4	23.7	16.0	8.9
Wilshire U.S. Large Value	0.3	7.8	18.0	21.9	15.2	7.7
Wilshire U.S. Small Growth	-6.7	-2.3	6.1	23.0	17.0	10.8
Wilshire U.S. Small Value	-5.8	0.5	10.1	23.8	15.5	9.3
Wilshire REIT Index	-3.1	14.5	13.5	16.5	16.0	8.3
MSCI USA Minimum Volatility Index	1.6	7.4	15.2	17.6	14.5	7.9
FTSE RAFI U.S. 1000 Index	-0.1	7.5	18.8	24.3	15.8	9.7





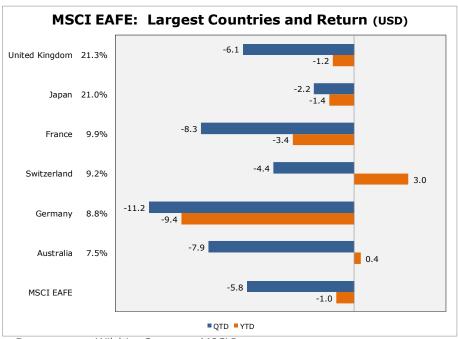


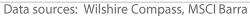
Data sources: Wilshire Compass, Wilshire Atlas

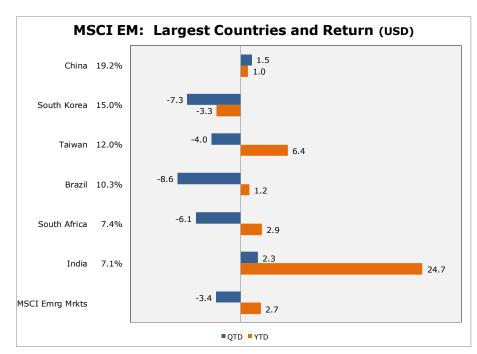
Non-U.S. Equity Market



September 30, 2014	Qtr	Ytd	1 Yr	3 Yr	5 Yr	10 Yr
MSCI ACWI ex-US (\$g)	-5.2	0.4	5.2	12.3	6.5	7.5
MSCI EAFE (\$g)	-5.8	-1.0	4.7	14.2	7.0	6.8
MSCI Emerging Markets (\$g)	-3.4	2.7	4.7	7.6	4.8	11.0
MSCI Frontier Markets (\$g)	1.6	22.4	30.5	18.3	9.1	8.6
MSCI ACWI ex-US Growth (\$g)	-4.8	0.0	4.7	12.2	7.1	7.5
MSCI ACWI ex-US Value (\$g)	-5.6	0.8	5.8	12.4	5.8	7.5
MSCI ACWI ex-US Small (\$g)	-6.7	0.3	4.9	12.9	9.2	9.4
MSCI EAFE Minimum Volatility Idx	-3.8	4.9	7.3	11.8	8.5	8.9
FTSE RAFI Developed ex-US Index	-6.3	0.1	6.6	14.4	5.6	7.9
MSCI EAFE LC (g)	1.0	4.5	11.2	17.8	8.6	6.3
MSCI Emerging Markets LC (g)	0.7	5.5	8.6	10.5	6.6	11.2







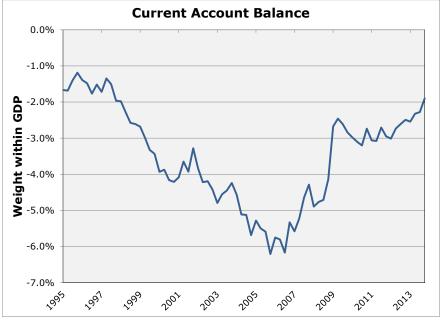
U.S. Dollar and Trade



 U.S. dollar has been strengthening since May, with the index up 6% (note: index to the right is a tradeweighted average of the value of the U.S. dollar versus other major currencies)

- U.S. typically runs a current account deficit – imports outweigh exports – which detracts from GDP growth
- Strengthening dollar should eventually effect prices, making imports relatively cheaper and worsening the trade deficit





U.S. Fixed Income Market

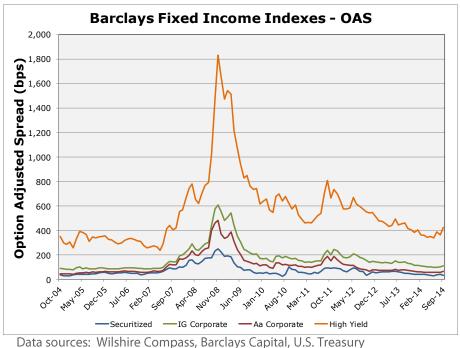


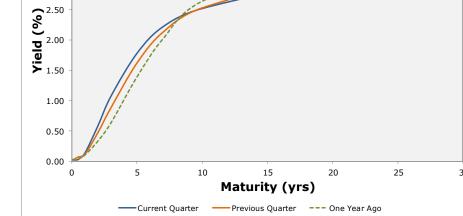
September 30, 2014	Qtr	Ytd	1 Yr	3 Yr	5 Yr	10 Yr
Barclays Aggregate Bond Index	0.2	4.1	3.9	2.4	4.1	4.6
Barclays Treasury Index	0.3	3.1	2.3	1.0	3.2	4.2
Barclays Govt-Related Index	0.2	4.6	4.6	2.4	3.6	4.5
Barclays Securitized Index	0.2	4.1	3.7	2.2	3.8	4.6
Barclays Corporate IG Index	-0.1	5.6	6.8	5.2	6.4	5.5
Barclays LT Govt/Credit Index	1.0	13.0	12.9	4.7	8.0	7.0
Barclays LT Treasury Index	2.7	15.2	11.6	2.0	7.0	6.8
Barclays LT Govt-Related Index	0.8	13.8	13.7	5.6	8.2	7.4
Barclays LT Corporate IG Index	0.1	11.3	13.4	6.9	8.7	6.9
Barclays U.S. TIPS Index	-2.0	3.7	1.6	1.3	4.5	4.6
Barclays High Yield Index	-1.9	3.5	7.2	11.1	10.6	8.3
Treasury Bills	0.0	0.0	0.1	0.1	0.1	1.6

4.00

3.50

3.00



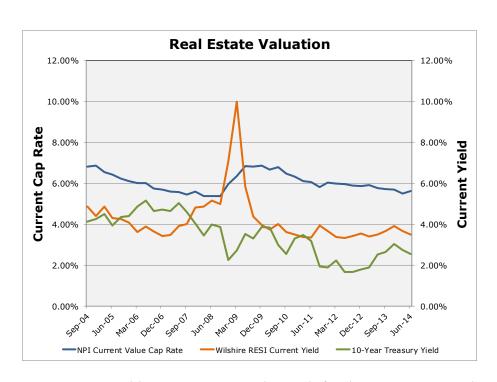


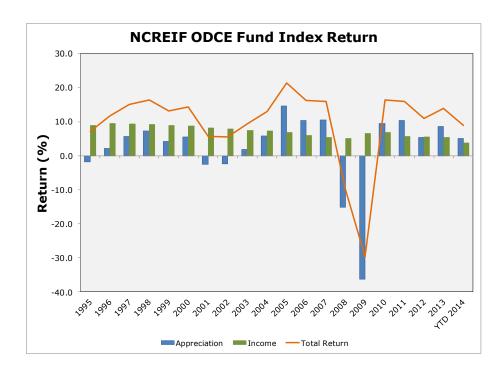
Treasury Yield Curve



September 30, 2014	Qtr	Ytd	1 Yr	3 Yr	5 Yr	10 Yr
Barclays U.S. TIPS Index	-2.0	3.7	1.6	1.3	4.5	4.6
Bloomberg Commodity Index	-11.8	-5.6	-6.6	-5.3	-1.4	-1.0
Global Public Real Estate*	-3.8	12.1	11.4	15.8	14.0	8.3
NCREIF ODCE Fund Index	3.2	8.9	12.4	12.3	12.4	7.1
NCREIF Timberland Index	1.5	4.2	10.4	7.4	3.6	8.3
Alerian MLP Index (Oil & Gas)	1.8	18.4	24.6	22.6	23.3	16.1

^{*} Wilshire Global Real Estate Securities from September 2004 to December 2004. Wilshire Global REITs from 2004 to present.



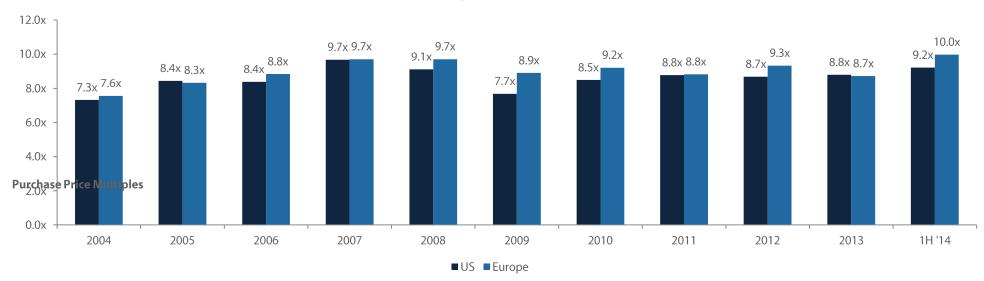


Data sources: Wilshire Compass, National Council of Real Estate Investment Fiduciaries

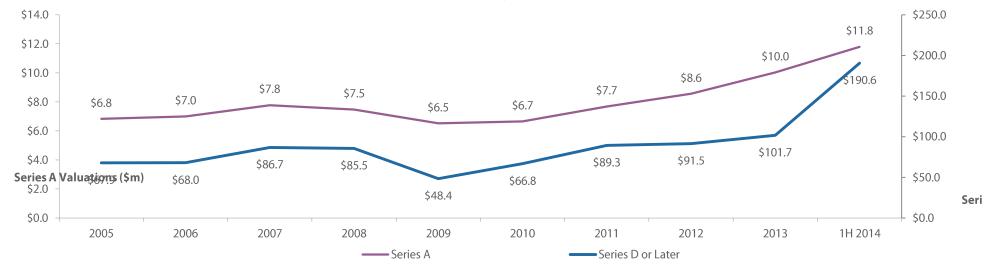
Private Equity – Pricing & Valuations



Global LBO Multiples (2004 – 1H 2014)



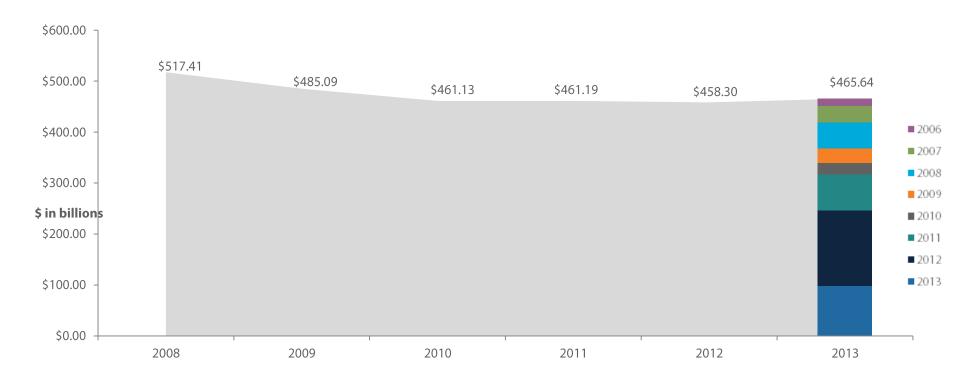
U.S. Venture Capital Median Pre-Money Valuations (2005 – 1H 2014)



Private Equity – North American Overhang



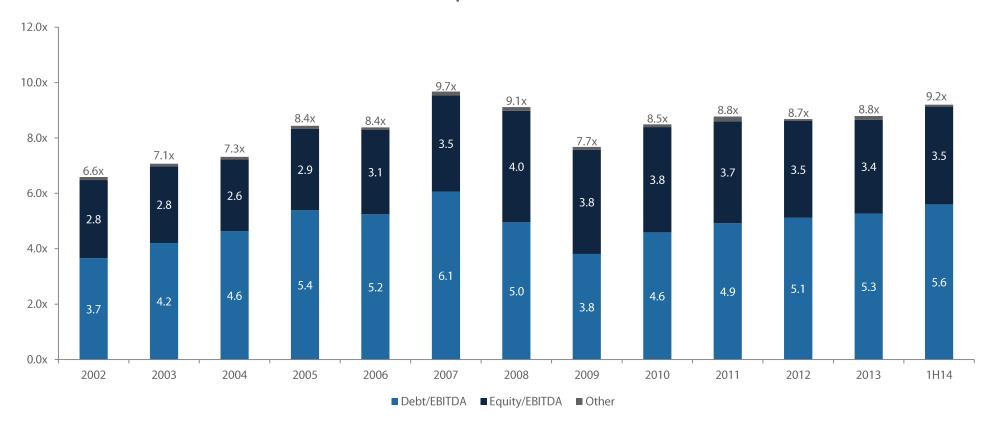
Cumulative Vintage Year Overhang



- Total private equity overhang significantly grew to over \$517 billion during the runup to the financial crisis
- While the overhang has slightly decreased since 2008, it remains relatively high at approximately \$466 billion



Purchase Price Multiples of U.S. LBO Transactions



- As the debt markets have come back, purchase price multiples have increased from the recent low in 2009
- Recent pricing continues to inch upward and stay relatively high in the 8.8x to 9.2x range

Asset Class Performance



Annual Asset Class Returns - Best to Worst

2009	2010	2011	2012	2013	YTD 2014
Emrg Mrkts	MLPs	MLPs	Emrg Mrkts	U.S. Equity	MLPs
79.0%	35.9%	13.9%	18.6%	33.1%	18.4%
MLPs	REITs	U.S. TIPS	Developed	MLPs	REITs
76.4%	28.6%	13.6%	17.9%	27.6%	14.5%
High Yield	Emrg Mrkts	REITs	REITs	Developed	U.S. Equity
58.2%	19.2%	9.2%	17.6%	23.3%	7.1%
Developed	U.S. Equity	Core Bond	U.S. Equity	High Yield	Core Bond
32.5%	17.2%	7.8%	16.1%	7.4%	4.1%
REITs	Commodities	High Yield	High Yield	REITs	U.S. TIPS
28.6%	16.8%	5.0%	15.8%	1.9%	3.7%
U.S. Equity	High Yield	U.S. Equity	U.S. TIPS	T-Bills	High Yield
28.3%	15.1%	1.0%	7.0%	0.1%	3.5%
Commodities	Developed	T-Bills	MLPs	Core Bond	Emrg Mrkts
18.9%	8.2%	0.1%	4.8%	-2.0%	2.7%
U.S. TIPS	Core Bond	Developed	Core Bond	Emrg Mrkts	T-Bills
11.4%	6.5%	-11.7%	4.2%	-2.3%	0.0%
Core Bond	U.S. TIPS	Commodities	T-Bills	U.S. TIPS	Developed
5.9%	6.3%	-13.3%	0.1%	-8.6%	-1.0%
T-Bills	T-Bills	Emrg Mrkts	Commodities	Commodities	Commodities
0.2%	0.1%	-18.2%	-1.0%	-9.5%	-5.6%

Annualized 5-Vear

5-Year
as of Sept '14
MLPs
23.3%
REITs
16.0%
U.S. Equity
15.7%
High Yield
10.6%
Developed
7.0%
Emrg Mrkts
4.8%
U.S. TIPS
4.5%
Core Bond
4.1%
T-Bills
0.1%
Commodities
-1.4%

Data sources: Wilshire Compass

Note: Developed asset class is developed markets ex-U.S., ex-Canada.

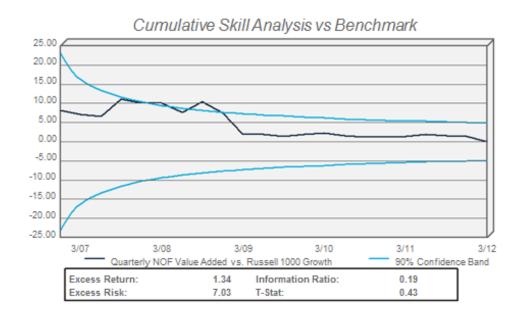
Appendix

Glossary



Cumulative Skill Graph

- Graphical representation of the statistical significance of excess returns over a specified benchmark for the cumulative time period being analyzed.
- Positive cumulative excess performance is shown when the dark blue line is above the "0.00" line measured on the left Y axis.
- The light blue lines that form a channel, or the shape of a trumpet horn, represent the boundaries of the statistical significance test.
- The width of the channel is calculated based on the amount of "Excess Risk" that the manager takes over the benchmark.



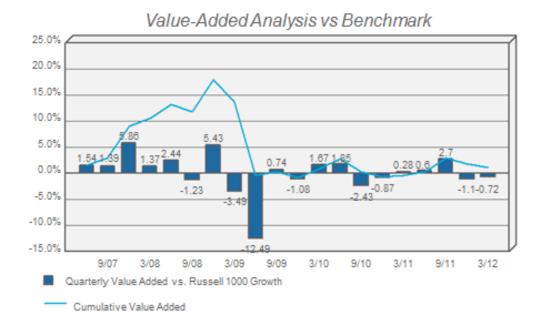
Data sources: Wilshire Compass

Glossary



Value Added Graph

- Illustrates excess returns over the specified benchmark for individual periods, usually quarters, and for the cumulative time period being analyzed.
- A period in which there was positive excess performance the dark blue bar is above the line. Negative excess performance is below the line. The magnitude of the excess performance is measured on the left Y axis.
- The light blue line is the cumulative result of the quarterly performance and is measured on the right Y axis.



Data sources: Wilshire Compass