



The City of Grand Rapids – General Retirement System

Executive Summary of Investment Performance

March 31, 2015

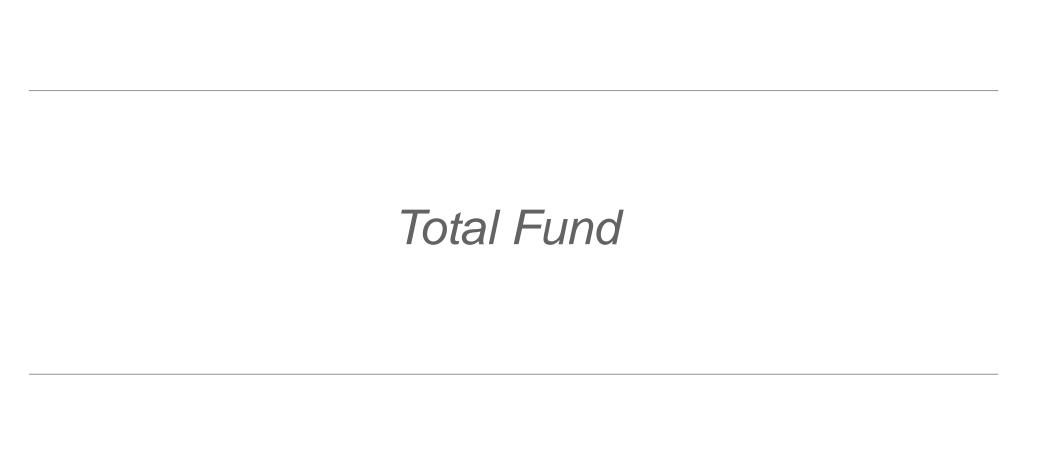
### **Contents**



Investment Performance Tab 1

Capital Market Review Tab 2

**Appendix** 



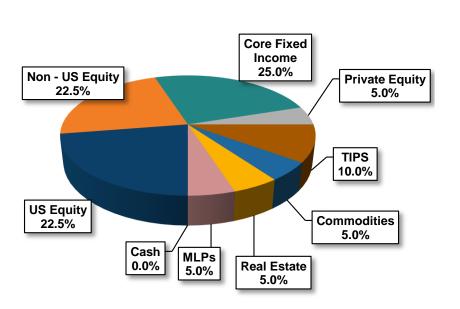
General Retirement System

### Policy Allocation vs Actual Allocation

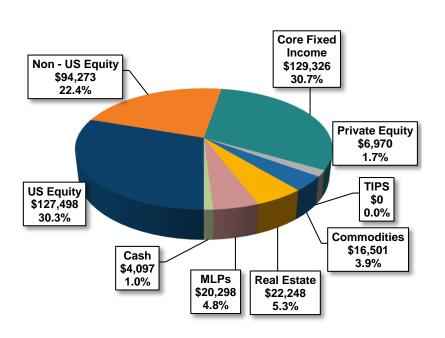


# Total Fund Composite As of March 31, 2015

Policy Allocation<sup>1</sup>



#### Actual Allocation (in \$'000)



Total Assets: \$421,212,000

### Policy Allocation vs Actual Allocation



# Total Fund Composite As of March 31, 2015

**US Equity** 

Non - US Equity

**Core Fixed Income** 

**Private Equity** 

**TIPS** 

Commodities

Real Estate

**MLPs** 

Cash

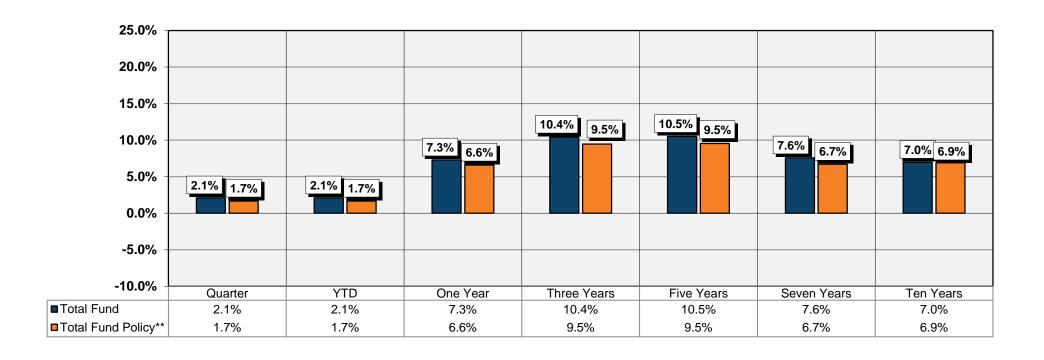
**Total Fund Composite** 

| Morket Value (in \$1000) | Asset Al | location |
|--------------------------|----------|----------|
| Market Value (in \$'000) | Actual   | Policy   |
| \$127,498                | 30.27%   | 22.50%   |
| \$94,273                 | 22.38%   | 22.50%   |
| \$129,326                | 30.70%   | 25.00%   |
| \$6,970                  | 1.65%    | 5.00%    |
| \$0                      | 0.00%    | 10.00%   |
| \$16,501                 | 3.92%    | 5.00%    |
| \$22,248                 | 5.28%    | 5.00%    |
| \$20,298                 | 4.82%    | 5.00%    |
| \$4,097                  | 0.97%    | 0.00%    |
| \$421,212                | 100.00%  | 100.00%  |
|                          |          |          |

### Investment Performance



### Total Fund Composite\*



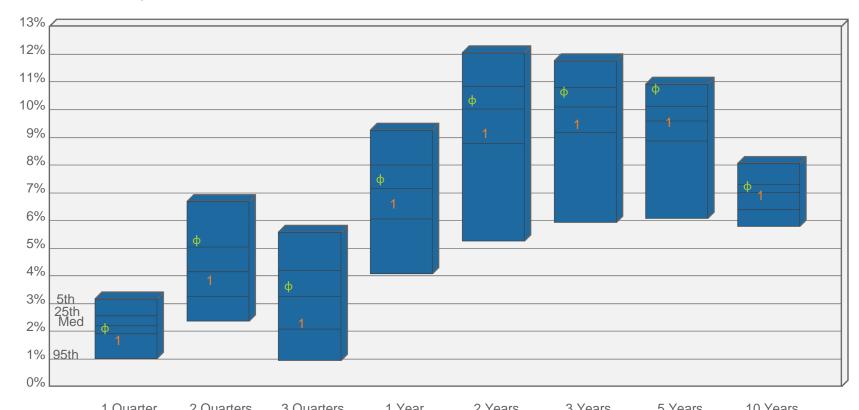
<sup>\*</sup>Returns are net of fees

<sup>\*\*</sup> Policy index = Wilshire 5000 (40%), MSCI ACWI ex U.S. (15%), Barclays Aggregate (30%), FTSE EPRA NAREIT Dev RE (5%), Wilshire 5000

<sup>+2.5% (5%),</sup> DJ UBS Commodity Index (5%)



### **Total Fund Composite**



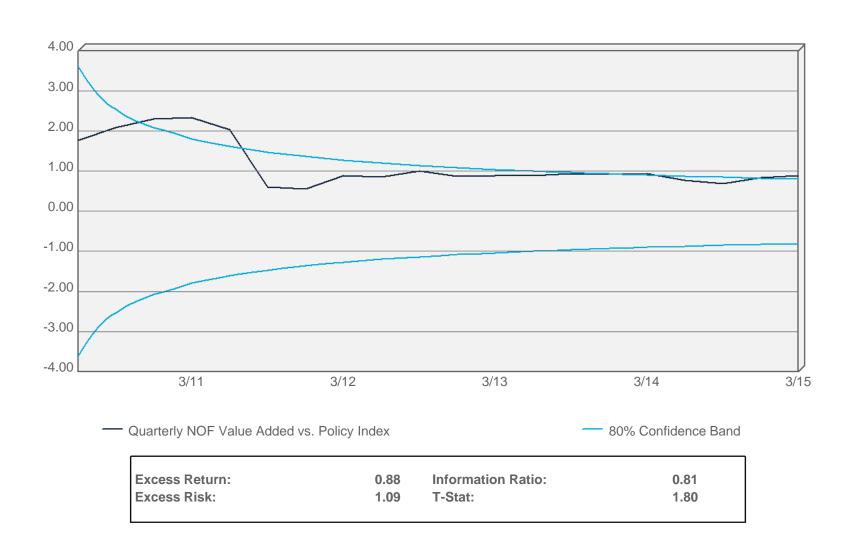
|                             | i Quarter | 2 Quarters | 3 Quarters | i i eai   | Z Tears    | 3 Teals    | 5 rears    | 10 Teals  |
|-----------------------------|-----------|------------|------------|-----------|------------|------------|------------|-----------|
| φ Total Fund 1 Policy Index | 2.16 (56) | 5.34 (20)  | 3.67 (42)  | 7.54 (38) | 10.39 (40) | 10.70 (30) | 10.81 ( 8) | 7.28 (28) |
|                             | 1.66 (85) | 3.84 (56)  | 2.29 (72)  | 6.59 (62) | 9.15 (69)  | 9.46 (69)  | 9.54 (50)  | 6.90 (53) |
| 5th %tile                   | 3.16      | 6.69       | 5.56       | 9.26      | 12.05      | 11.75      | 10.91      | 8.05      |
| 25th %tile                  | 2.55      | 5.05       | 4.21       | 8.00      | 10.85      | 10.79      | 10.13      | 7.30      |
| Median                      | 2.19      | 4.16       | 3.25       | 7.15      | 10.03      | 10.10      | 9.59       | 7.02      |
| 75th %tile                  | 1.92      | 3.26       | 2.08       | 6.05      | 8.78       | 9.18       | 8.88       | 6.38      |
| 95th %tile                  | 1.02      | 2.36       | 0.95       | 4.08      | 5.26       | 5.93       | 6.08       | 5.78      |
| Number of Funds             | 158       | 158        | 158        | 157       | 156        | 151        | 145        | 116       |

## Cumulative Skill Analysis



**Total Fund Composite** 

Five Years Ending March 31, 2015





### 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        | 1.98  | 1.98  | 12.36  | 16.80 | 15.31 | 10.18 | 8.86   | 9/30/87     | 8.38       |
| Wilshire 5000            | 1.61  | 1.61  | 12.24  | 16.19 | 14.56 | 9.29  | 8.41   | 9/30/87     | 9.48       |
| Value Added              | 0.37  | 0.37  | 0.12   | 0.62  | 0.75  | 0.89  | 0.45   | 9/30/87     | -1.10      |
| Core Fixed Composite     |       |       |        |       |       |       |        |             |            |
| Net of Fee Return        | 1.93  | 1.93  | 6.63   | 4.69  | 6.19  | 6.44  | 5.63   | 9/30/87     | 7.15       |
| Barclays Aggregate       | 1.61  | 1.61  | 5.72   | 3.10  | 4.41  | 4.69  | 4.93   | 9/30/87     | 6.99       |
| Value Added              | 0.32  | 0.32  | 0.91   | 1.58  | 1.77  | 1.75  | 0.71   | 9/30/87     | 0.16       |
| Non-US Equity Composite  |       |       |        |       |       |       |        |             |            |
| Net of Fee Return        | 4.98  | 4.98  | 1.80   | 8.95  | 8.11  | 2.32  | 4.01   | 6/30/95     | 7.81       |
| Policy Benchmark         | 3.49  | 3.49  | -1.01  | 6.40  | 4.82  | 1.24  | 5.27   | 6/30/95     | 5.37       |
| Value Added              | 1.49  | 1.49  | 2.81   | 2.55  | 3.29  | 1.08  | -1.26  | 6/30/95     | 2.44       |
| Real Estate Composite    |       |       |        |       |       |       |        |             |            |
| Net of Fee Return        | 3.77  | 3.77  | 14.88  | 11.18 | 10.44 |       |        | 6/30/09     | 14.65      |
| FTSE EPRA/NAREIT Dev (N) | 3.97  | 3.97  | 15.18  | 12.00 | 11.29 |       |        | 6/30/09     | 15.65      |
| Value Added              | -0.20 | -0.20 | -0.29  | -0.82 | -0.85 |       |        | 6/30/09     | -1.00      |
| Commodities Composite    |       |       |        |       |       |       |        |             |            |
| Net of Fee Return        | -4.94 | -4.94 | -21.08 |       |       |       |        | 3/31/13     | -14.48     |
| DJ UBS Commodity Index   | -5.94 | -5.94 | -27.04 |       |       |       |        | 3/31/13     | -15.48     |
| Value Added              | 1.00  | 1.00  | 5.96   |       |       |       |        | 3/31/13     | 1.00       |
| MLPs Composite           |       |       |        |       |       |       |        |             |            |
| Net of Fee Return        |       |       |        |       |       |       |        |             |            |
| S&P MLP Index            |       |       |        |       |       |       |        |             |            |
|                          |       |       |        |       |       |       |        |             |            |



### Trailing Returns

| 2.95 | 2.95                | 12.37                              | 6.30  |  |   |   | 6/30/10   | 6.04  |
|------|---------------------|------------------------------------|---|--|---|---|---|---|
|      |                     |                                    |   |  |   |   |   | 20.80   |
| 0.72 | 0.72                | -2.37                              | -12.38  |  |   |   | 6/30/10   | -14.76  |
|      |                     |                                    |   |  |   |   |   |   |
| 2.10 | 2.10                | 7.29                               | 10.42   | 10.51  | 7.57  | 6.97  | 9/30/87   | 8.02  |
| 1.66 | 1.66                | 6.59                               | 9.46  | 9.54   | 6.70  | 6.90  | 9/30/87   | 8.67  |
| 0.44 | 0.44                | 0.70                               | 0.96  | 0.97   | 0.87  | 0.07  | 9/30/87   | -0.66   |
|      |                     |                                    |   |  |   |   |   |   |
|      | <b>2.10</b><br>1.66 | 2.23 2.23 0.72 0.72 2.10 1.66 1.66 | 2.23 2.23 14.74 0.72 0.72 -2.37  2.10 2.10 7.29 1.66 6.59 | 2.23       2.23       14.74       18.69         0.72       -2.37       -12.38             2.10       2.10       7.29       10.42         1.66       1.66       6.59       9.46 | 2.23     2.23     14.74     18.69       0.72     -2.37     -12.38       2.10     2.10     7.29     10.42     10.51       1.66     1.66     6.59     9.46     9.54 | 2.23       2.23       14.74       18.69         0.72       -2.37       -12.38             2.10       2.10       7.29       10.42       10.51       7.57         1.66       1.66       6.59       9.46       9.54       6.70 | 2.23     2.23     14.74     18.69       0.72     -2.37     -12.38       2.10     2.10     7.29     10.42     10.51     7.57     6.97       1.66     1.66     6.59     9.46     9.54     6.70     6.90 | 2.23       2.23       14.74       18.69       6/30/10         0.72       -2.37       -12.38       6/30/10         2.10       2.10       7.29       10.42       10.51       7.57       6.97       9/30/87         1.66       1.66       6.59       9.46       9.54       6.70       6.90       9/30/87 |

# Custom Benchmark Specification



Total Fund

March 31, 2015

|              | Quarter Start | Quarter End | Percent | Description               |
|--------------|---------------|-------------|---------|---------------------------|
|              |               |             |         |                           |
| Policy Index | 12/79         | 6/98        | 55.00   | Wilshire 5000             |
|              |               |             | 40.00   | Barclays Aggregate        |
|              |               |             | 5.00    | MSCI EAFE Index (N)       |
|              | 9/98          | 9/02        | 50.00   | Wilshire 5000             |
|              |               |             | 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          | 3/15        | 5.00    | FTSE EPRA/NAREIT Dev (N)  |
|              | 5, 15         | 3,13        | 5.00    | Bloomberg Commodity Index |
|              |               |             | 5.00    | Wilshire 5000 + 2.5%      |
|              |               |             | 30.00   | Barclays Aggregate        |
|              |               |             | 15.00   | MSCI ACWI X US (N)        |
|              |               |             | 15.00   |                           |

# Custom Benchmark Specification



Total Fund

March 31, 2015

|                      | Quarter Start | Quarter End | Percent | Description   |
|----------------------|---------------|-------------|---------|---------------|
| Policy Index (cont.) |               |             | 40.00   | Wilshire 5000 |

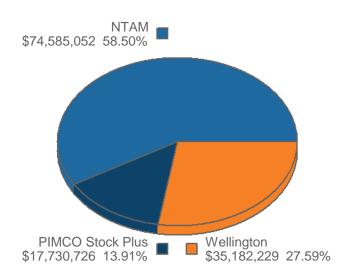


# Manager Allocation



U.S. Equity Composite

As of March 31, 2015





### Trailing Returns

|                       | 1 Qtr | YTD   | 1 Year | 3 Yrs | 5 Yrs | 7 Yrs | 10 Yrs | Incept Date | Incept Re |
|-----------------------|-------|-------|--------|-------|-------|-------|--------|-------------|-----------|
| NTAM                  |       |       |        |       |       |       |        |             |           |
| Net of Fee Return     | 0.97  | 0.97  | 12.78  | 16.12 | 14.44 | 8.86  | 8.06   | 9/30/98     | 6.63      |
| Policy Benchmark      | 0.95  | 0.95  | 12.74  | 16.12 | 14.46 | 8.95  | 8.11   | 9/30/98     | 6.63      |
| Value Added           | 0.02  | 0.02  | 0.04   | 0.00  | -0.02 | -0.08 | -0.05  | 9/30/98     | -0.00     |
| PIMCO Stock Plus      |       |       |        |       |       |       |        |             |           |
| Net of Fee Return     | 0.86  | 0.86  | 12.19  | 17.79 | 16.11 | 10.28 | 8.87   | 9/30/00     | 5.25      |
| Standard & Poor's 500 | 0.95  | 0.95  | 12.74  | 16.12 | 14.46 | 8.95  | 8.01   | 9/30/00     | 4.56      |
| Value Added           | -0.09 | -0.09 | -0.55  | 1.67  | 1.65  | 1.34  | 0.85   | 9/30/00     | 0.70      |
| Wellington            |       |       |        |       |       |       |        |             |           |
| Net of Fee Return     | 4.66  | 4.66  | 11.06  | 19.57 | 18.09 | 14.34 | 11.60  | 9/30/99     | 11.99     |
| Russell 2000          | 4.32  | 4.32  | 8.21   | 16.27 | 14.56 | 10.47 | 8.82   | 9/30/99     | 8.60      |
| Value Added           | 0.35  | 0.35  | 2.85   | 3.30  | 3.53  | 3.87  | 2.78   | 9/30/99     | 3.38      |
| U.S. Equity Composite |       |       |        |       |       |       |        |             |           |
| Net of Fee Return     | 1.98  | 1.98  | 12.36  | 16.80 | 15.31 | 10.18 | 8.86   | 9/30/87     | 8.38      |
| Wilshire 5000         | 1.61  | 1.61  | 12.24  | 16.19 | 14.56 | 9.29  | 8.41   | 9/30/87     | 9.48      |
| Value Added           | 0.37  | 0.37  | 0.12   | 0.62  | 0.75  | 0.89  | 0.45   | 9/30/87     | -1.10     |
|                       |       |       |        |       |       |       |        |             |           |
|                       |       |       |        |       |       |       |        |             |           |
|                       |       |       |        |       |       |       |        |             |           |
|                       |       |       |        |       |       |       |        |             |           |
|                       |       |       |        |       |       |       |        |             |           |

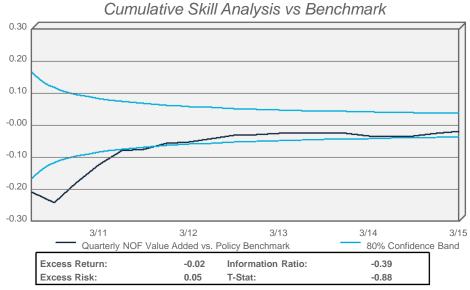


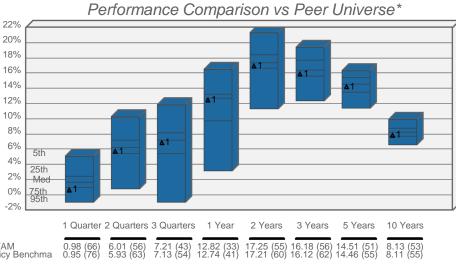
#### **NTAM**

Median

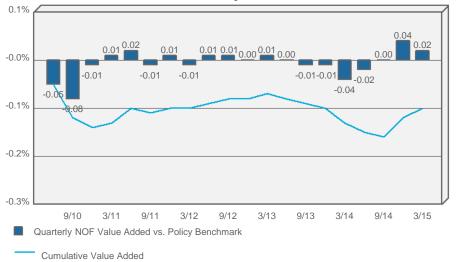
Number of Funds

March 31, 2015

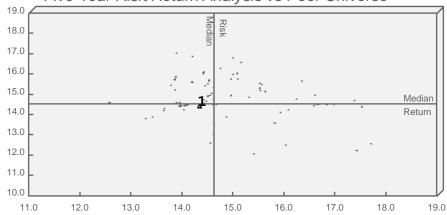




#### Value-Added Analysis vs Benchmark



#### Five Year Risk/Return Analysis vs Peer Universe\*



|                  |        | Gross F | Fee Ret | Standard Deviation |      |  |
|------------------|--------|---------|---------|--------------------|------|--|
| Description      | Legend | Value   | Rank    | Value              | Rank |  |
| NTAM             | Δ      | 14.51   | 51      | 14.45              | 60   |  |
| Policy Benchmark | 1      | 14.46   | 55      | 14.45              | 60   |  |
| Median           |        | 14.51   |         | 14.63              |      |  |

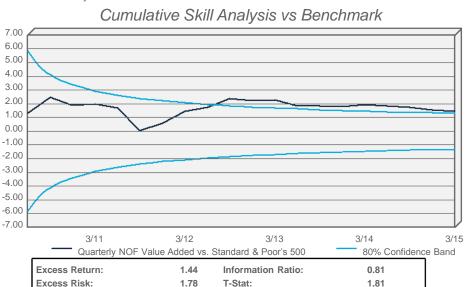
16.35

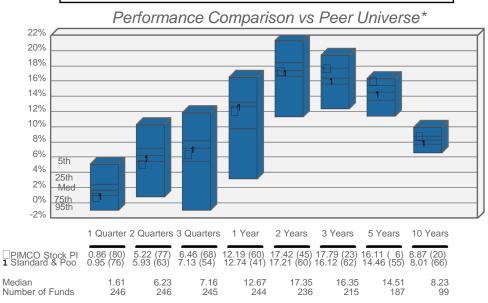
14.51



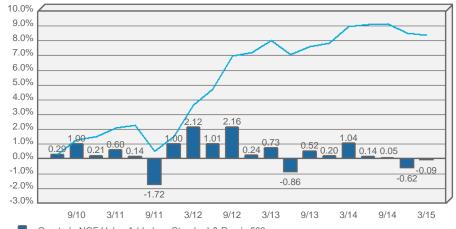
#### PIMCO Stock Plus

March 31, 2015





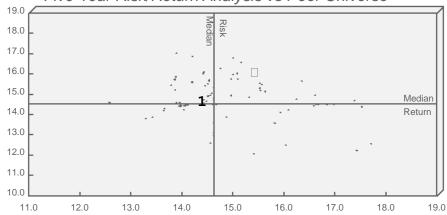
#### Value-Added Analysis vs Benchmark



Quarterly NOF Value Added vs. Standard & Poor's 500

Cumulative Value Added

#### Five Year Risk/Return Analysis vs Peer Universe\*

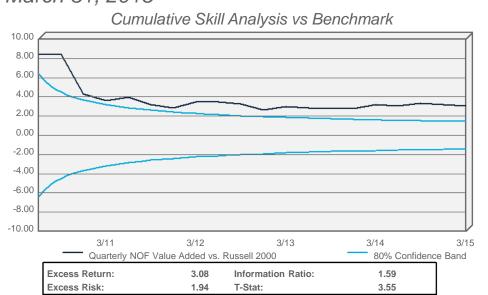


|                       |        | Gross F | Fee Ret | Standard Deviation |      |  |
|-----------------------|--------|---------|---------|--------------------|------|--|
| Description           | Legend | Value   | Rank    | Value              | Rank |  |
| PIMCO Stock Plus      |        | 16.11   | 6       | 15.49              | 28   |  |
| Standard & Poor's 500 | 1      | 14.46   | 55      | 14.45              | 60   |  |
| Median                |        | 14.51   |         | 14.63              |      |  |



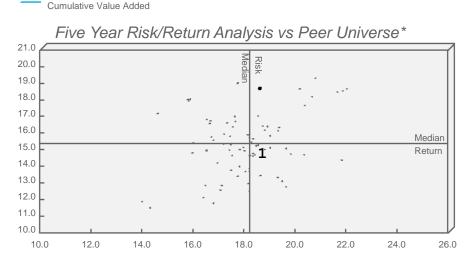
# Wellington March 31, 2015

Number of Funds



#### Performance Comparison vs Peer Universe\* 20% 15% 10% 25th 5% Med -5% 1 Quarter 2 Quarters 3 Quarters Wellington1 Russell 2000 15.36 (10) 9.16 ( 9) 11.74 (11) 20.71 ( 2) 20.29 ( 4) 18.80 ( 4.32 (38) 14.46 (15) 6.04 (35) 8.21 (46) 16.25 (54) 16.27 (66) 14.56 (75) 8.82 (77) Median 15.38

#### Value-Added Analysis vs Benchmark 16.0% 14.0% 12.0% 10.0% 8.0% 6.0% 2.15 2.0% 0.18 0.35 0.0% -0.1 -2.0% 1.01 -4.0% 9/10 3/11 3/13 3/15 Quarterly NOF Value Added vs. Russell 2000



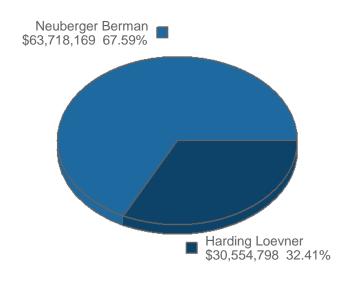
|              |        | Gross F | Fee Ret | Standard Deviation |      |  |
|--------------|--------|---------|---------|--------------------|------|--|
| Description  | Legend | Value   | Rank    | Value              | Rank |  |
| Wellington   | •      | 18.80   | 4       | 18.83              | 28   |  |
| Russell 2000 | 1      | 14.56   | 75      | 18.83              | 28   |  |
| Median       |        | 15.38   |         | 18.22              |      |  |



# Manager Allocation



Non-US Equity Composite
As of March 31, 2015





### Trailing Returns

Periods Ended March 31, 2015

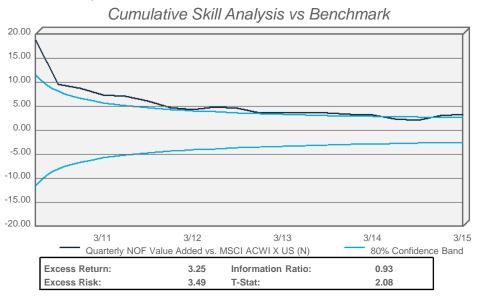
|  | 1 Qtr | YTD  | 1 Year | 3 Yrs | 5 Yrs | 7 Yrs | 10 Yrs | Incept Date | Incept Ret |
|--|-------|------|--------|-------|-------|-------|--------|-------------|------------|
| Neuberger Berman   |       |      |        |       |       |       |        |             |            |
| Net of Fee Return  | 5.55  | 5.55 | 2.35   | 9.15  | 8.23  | 2.40  |        | 6/30/06     | 3.03       |
| MSCI ACWI X US (N)   | 3.49  | 3.49 | -1.01  | 6.40  | 4.82  | 1.24  |        | 6/30/06     | 3.35       |
| Value Added  | 2.05  | 2.05 | 3.36   | 2.74  | 3.41  | 1.16  |        | 6/30/06     | -0.32      |
| Harding Loevner<br>Net of Fee Return<br>MSCI ACWI X US (N) |       |      |        |       |       |       |        |             |            |
| Int'l Equity Composite                                     |       |      |        |       |       |       |        |             |            |
| Net of Fee Return  | 4.98  | 4.98 | 1.80   | 8.95  | 8.11  | 2.32  | 4.01   | 6/30/95     | 7.81       |
| Policy Benchmark   | 3.49  | 3.49 | -1.01  | 6.40  | 4.82  | 1.24  | 5.27   | 6/30/95     | 5.37       |
| Value Added  | 1.49  | 1.49 | 2.81   | 2.55  | 3.29  | 1.08  | -1.26  | 6/30/95     | 2.44       |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |
|  |       |      |        |       |       |       |        |             |            |

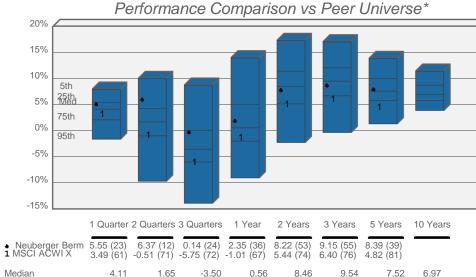
General Retirement System



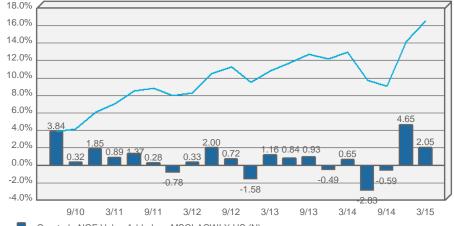
#### Neuberger Berman

March 31, 2015





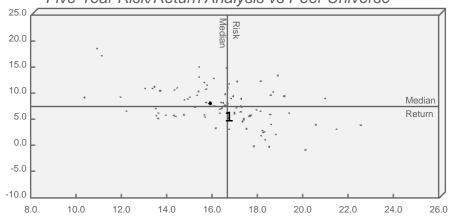
# Value-Added Analysis vs Benchmark



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

Cumulative Value Added

#### Five Year Risk/Return Analysis vs Peer Universe\*



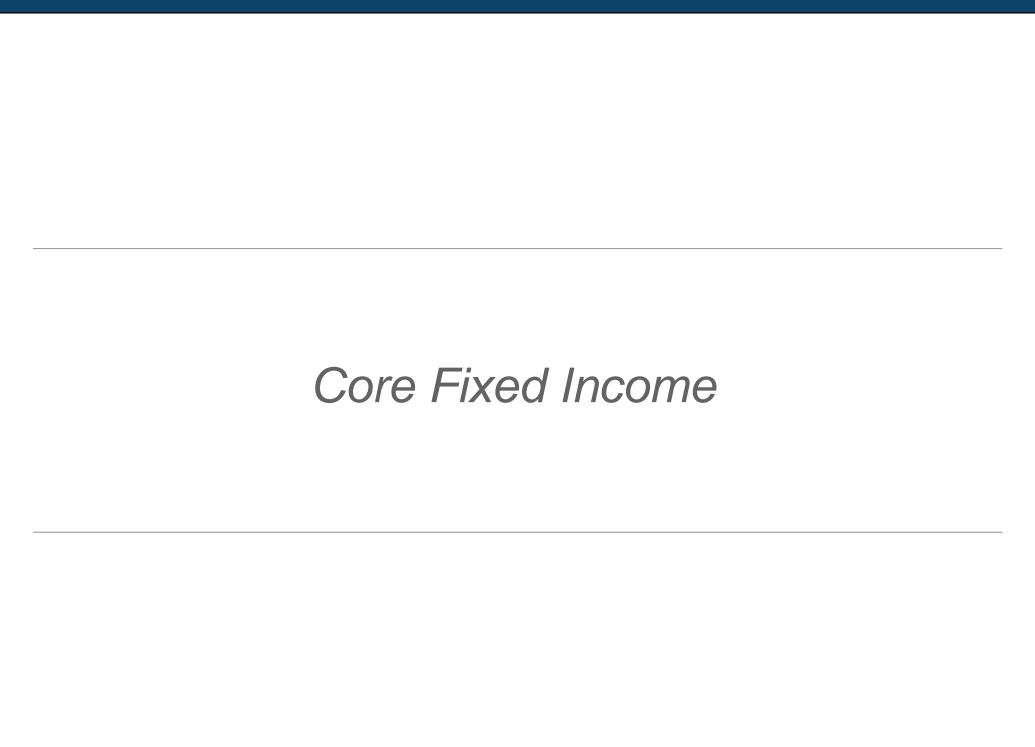
|                    |        | Gross F | Fee Ret | Standard Deviation |      |  |
|--------------------|--------|---------|---------|--------------------|------|--|
| Description        | Legend | Value   | Rank    | Value              | Rank |  |
| Neuberger Berman   | •      | 8.39    | 39      | 16.14              | 64   |  |
| MSCI ACWI X US (N) | 1      | 4.82    | 81      | 16.87              | 45   |  |
| Median             |        | 7.52    |         | 16.66              |      |  |

1483

1764

Number of Funds

1746



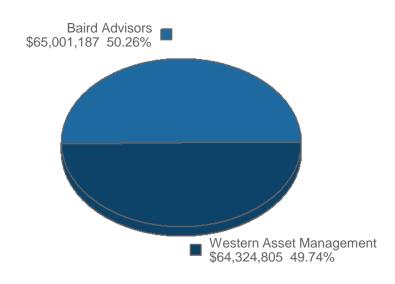
# Manager Allocation



24

Core Fixed Composite

As of March 31, 2015





### Trailing Returns

Periods Ended March 31, 2015

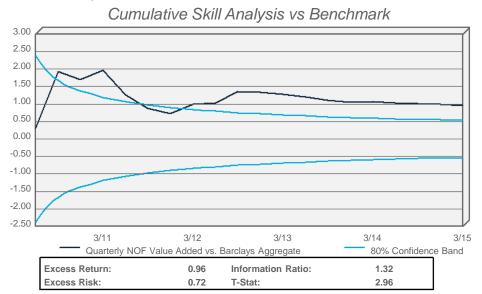
|                          | 1 Qtr | YTD  | 1 Year | 3 Yrs | 5 Yrs | 7 Yrs | 10 Yrs | Incept Date | Incept Ret |
|--------------------------|-------|------|--------|-------|-------|-------|--------|-------------|------------|
| Baird Advisors           |       |      |        |       |       |       |        |             |            |
| Net of Fee Return        | 1.71  | 1.71 | 6.30   | 4.07  | 5.41  | 5.38  | 5.22   | 3/31/03     | 4.96       |
| Barclays Aggregate       | 1.61  | 1.61 | 5.72   | 3.10  | 4.41  | 4.69  | 4.93   | 3/31/03     | 4.65       |
| Value Added              | 0.10  | 0.10 | 0.58   | 0.96  | 1.00  | 0.68  | 0.29   | 3/31/03     | 0.32       |
| Western Asset Management |       |      |        |       |       |       |        |             |            |
| Net of Fee Return        | 2.15  | 2.15 | 7.00   | 5.30  | 6.90  | 7.37  | 5.93   | 3/31/04     | 5.65       |
| Barclays Aggregate       | 1.61  | 1.61 | 5.72   | 3.10  | 4.41  | 4.69  | 4.93   | 3/31/04     | 4.58       |
| Value Added              | 0.54  | 0.54 | 1.28   | 2.19  | 2.49  | 2.68  | 1.00   | 3/31/04     | 1.08       |
| Core Fixed Composite     |       |      |        |       |       |       |        |             |            |
| Net of Fee Return        | 1.93  | 1.93 | 6.63   | 4.69  | 6.19  | 6.44  | 5.63   | 9/30/87     | 7.15       |
| Barclays Aggregate       | 1.61  | 1.61 | 5.72   | 3.10  | 4.41  | 4.69  | 4.93   | 9/30/87     | 6.99       |
| Value Added              | 0.32  | 0.32 | 0.91   | 1.58  | 1.77  | 1.75  | 0.71   | 9/30/87     | 0.16       |
|                          |       |      |        |       |       |       |        |             |            |
|                          |       |      |        |       |       |       |        |             |            |
|                          |       |      |        |       |       |       |        |             |            |
|                          |       |      |        |       |       |       |        |             |            |
|                          |       |      |        |       |       |       |        |             |            |
|                          |       |      |        |       |       |       |        |             |            |
|                          |       |      |        |       |       |       |        |             |            |
|                          |       |      |        |       |       |       |        |             |            |
|                          |       |      |        |       |       |       |        |             |            |
|                          |       |      |        |       |       |       |        |             |            |

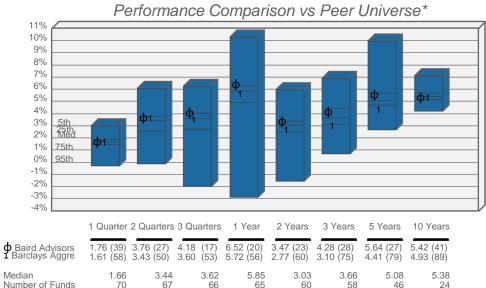
General Retirement System



#### **Baird Advisors**

March 31, 2015





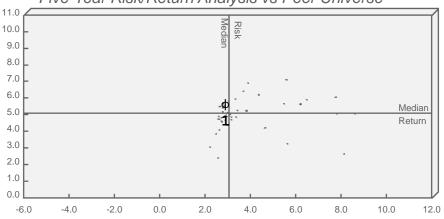
#### Value-Added Analysis vs Benchmark



Quarterly NOF Value Added vs. Barclays Aggregate

Cumulative Value Added

#### Five Year Risk/Return Analysis vs Peer Universe\*



|                    |        | Gross F | ee Ret | Standard | Deviation |
|--------------------|--------|---------|--------|----------|-----------|
| Description        | Legend | Value   | Rank   | Value    | Rank      |
| Baird Advisors     | ф      | 5.64    | 27     | 3.02     | 50        |
| Barclays Aggregate | 1      | 4.41    | 79     | 3.02     | 50        |
| Median             |        | 5.08    |        | 3.04     |           |

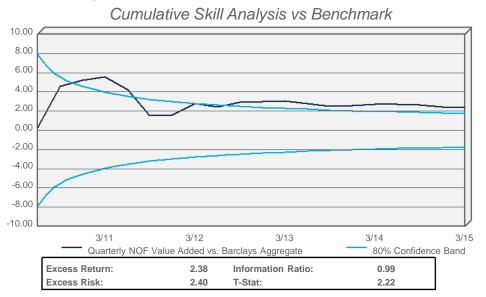


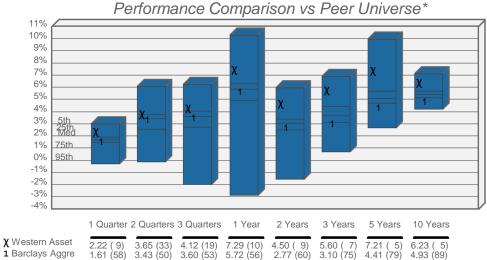
# Western Asset Management

March 31, 2015

Median

Number of Funds





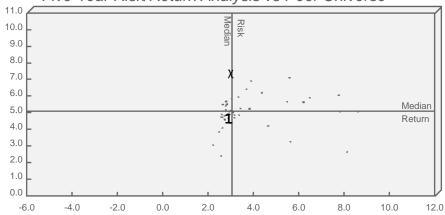
#### Value-Added Analysis vs Benchmark



Quarterly NOF Value Added Vs. Barciays Aggregat

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 | Х      | 7.21    | 5       | 3.19     | 38        |
| Barclays Aggregate       | 1      | 4.41    | 79      | 3.02     | 50        |
| Median                   |        | 5.08    |         | 3.04     |           |

3.03

5.08



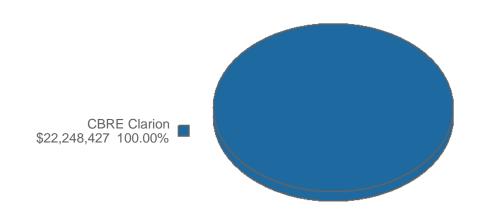
General Retirement System

# Manager Allocation



Real Estate Composite

As of March 31, 2015





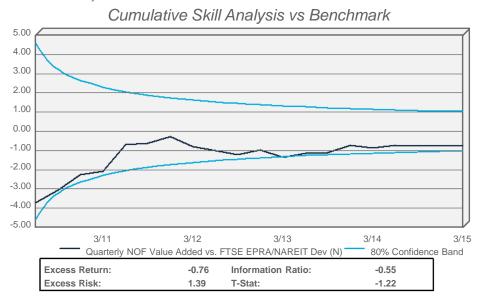
### Trailing Returns

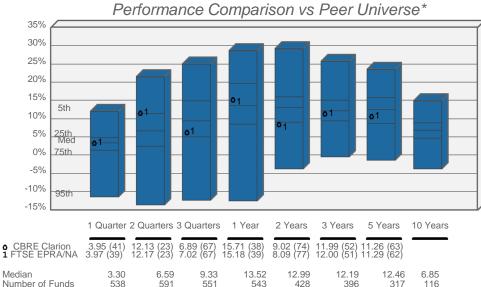
|                          | 1 Qtr | YTD   | 1 Year | 3 Yrs | 5 Yrs | 7 Yrs | 10 Yrs | Incept Date | Incept Re |
|--------------------------|-------|-------|--------|-------|-------|-------|--------|-------------|-----------|
| CBRE Clarion             |       |       |        |       |       |       |        |             |           |
| Net of Fee Return        | 3.77  | 3.77  | 14.88  | 11.18 | 10.44 |       |        | 6/30/09     | 14.65     |
| FTSE EPRA/NAREIT Dev (N) | 3.97  | 3.97  | 15.18  | 12.00 | 11.29 |       |        | 6/30/09     | 15.65     |
| Value Added              | -0.20 | -0.20 | -0.29  | -0.82 | -0.85 |       |        | 6/30/09     | -1.00     |
| Real Estate Composite    |       |       |        |       |       |       |        |             |           |
| Net of Fee Return        | 3.77  | 3.77  | 14.88  | 11.18 | 10.44 |       |        | 6/30/09     | 14.65     |
| FTSE EPRA/NAREIT Dev (N) | 3.97  | 3.97  | 15.18  | 12.00 | 11.29 |       |        | 6/30/09     | 15.65     |
| Value Added              | -0.20 | -0.20 | -0.29  | -0.82 | -0.85 |       |        | 6/30/09     | -1.00     |
|                          |       |       |        |       |       |       |        |             |           |
|                          |       |       |        |       |       |       |        |             |           |
|                          |       |       |        |       |       |       |        |             |           |
|                          |       |       |        |       |       |       |        |             |           |
|                          |       |       |        |       |       |       |        |             |           |
|                          |       |       |        |       |       |       |        |             |           |
|                          |       |       |        |       |       |       |        |             |           |
|                          |       |       |        |       |       |       |        |             |           |
|                          |       |       |        |       |       |       |        |             |           |
|                          |       |       |        |       |       |       |        |             |           |



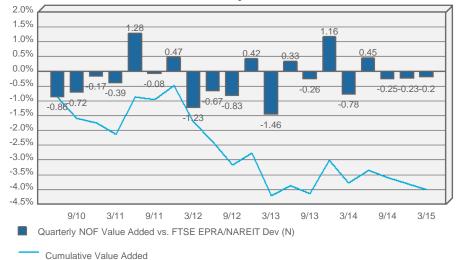
#### **CBRE Clarion**

March 31, 2015

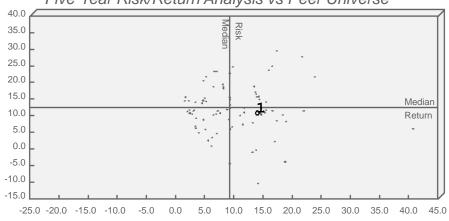




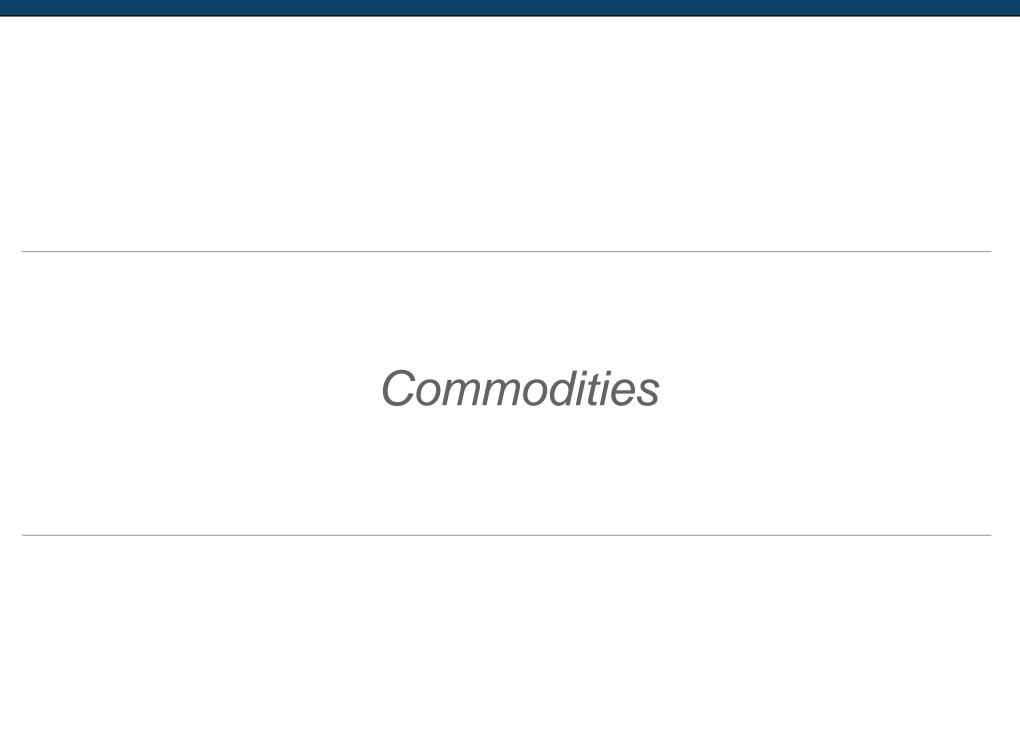
#### Value-Added Analysis vs Benchmark



Five Year Risk/Return Analysis vs Peer Universe\*



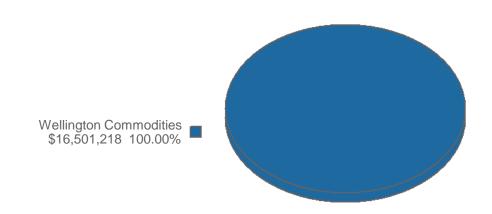
|                          |        | Gross F | Fee Ret | Standard | Deviation |  |
|--------------------------|--------|---------|---------|----------|-----------|--|
| Description              | Legend | Value   | Rank    | Value    | Rank      |  |
| CBRE Clarion             | ٥      | 11.26   | 63      | 14.89    | 24        |  |
| FTSE EPRA/NAREIT Dev (N) | 1      | 11.29   | 62      | 15.10    | 22        |  |
| Median                   |        | 12.46   |         | 9.31     |           |  |



# Manager Allocation



Commodities Composite
As of March 31, 2015





### Trailing Returns

|                        | 1 Qtr | YTD   | 1 Year | 3 Yrs | 5 Yrs | 7 Yrs | 10 Yrs | Incept Date | Incept Re |
|------------------------|-------|-------|--------|-------|-------|-------|--------|-------------|-----------|
| Wellington Commodities |       |       |        |       |       |       |        |             |           |
| Net of Fee Return      | -4.94 | -4.94 | -21.08 |       |       |       |        | 3/31/13     | -14.48    |
| DJ UBS Commodity Index | -5.94 | -5.94 | -27.04 |       |       |       |        | 3/31/13     | -15.48    |
| Value Added            | 1.00  | 1.00  | 5.96   |       |       |       |        | 0,01,10     | 1.00      |
| Commodities Composite  |       |       |        |       |       |       |        |             |           |
| Net of Fee Return      | -4.94 | -4.94 | -21.08 |       |       |       |        | 3/31/13     | -14.48    |
| DJ UBS Commodity Index | -5.94 | -5.94 | -27.04 |       |       |       |        | 3/31/13     | -15.48    |
| Value Added            | 1.00  | 1.00  | 5.96   |       |       |       |        |             | 1.00      |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |
|                        |       |       |        |       |       |       |        |             |           |

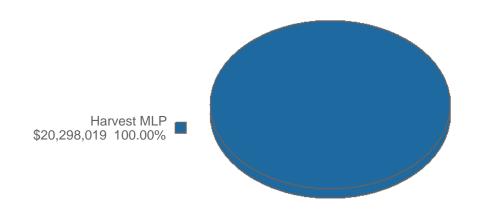


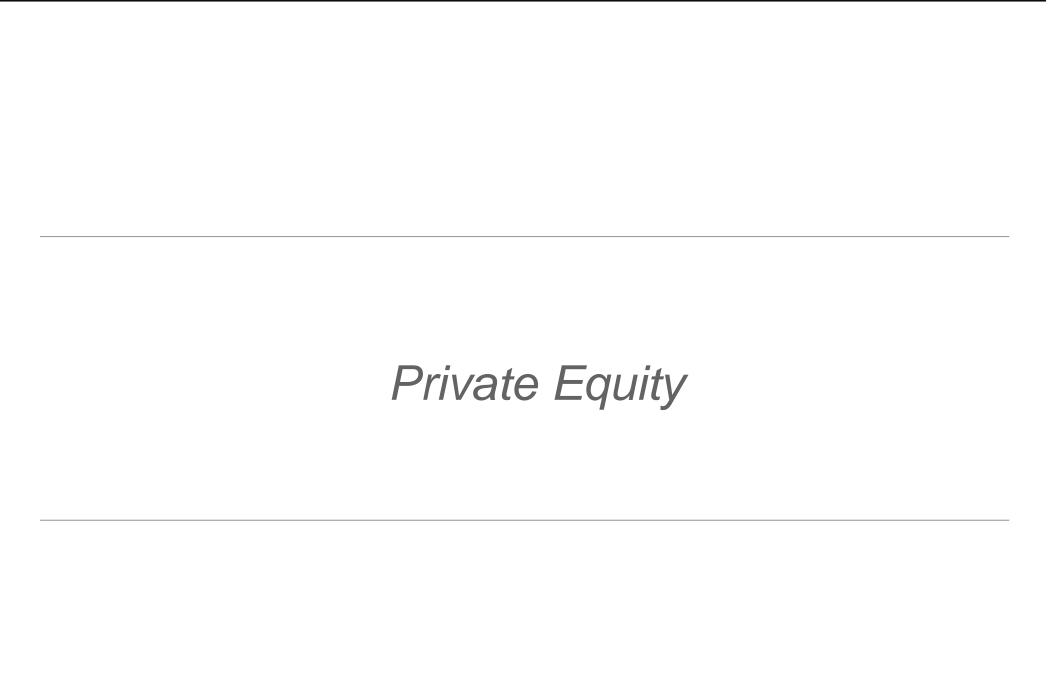
# Manager Allocation



MLPs Composite

As of March 31, 2015





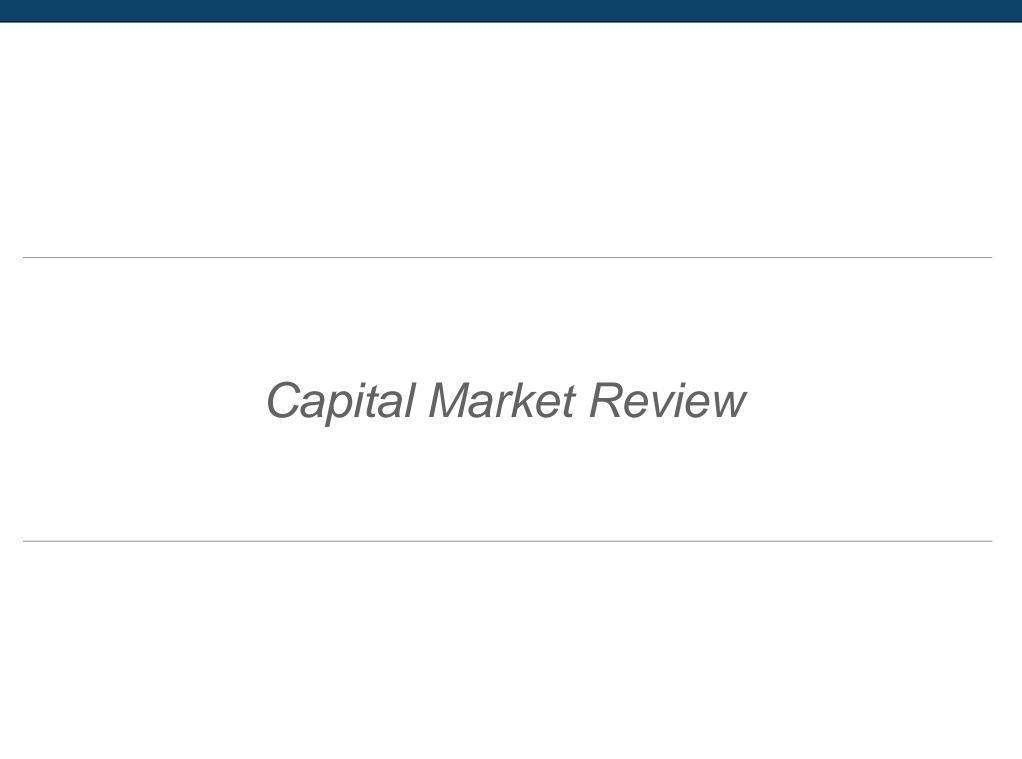
# Investment Manager Performance



# Private Partnerships As of March 31, 2015

| Partnership                        | Commitment   | Inception Date   | Capital Cal | led | Capital Distri | buted | Fair Value  | Total Value /                | Annualized |
|------------------------------------|--------------|------------------|-------------|-----|----------------|-------|-------------|------------------------------|------------|
| raitieisiiip                       | Value        | inception Date   | Amount      | %   | Amount         | %     | ran value   | Paid-In Capital <sup>1</sup> | IRR        |
|                                    |              |                  |             |     |                |       |             |                              |            |
| Adams Street Direct 2010 Fund      | \$500,000    | April 27, 2010   | \$458,736   | 92% | \$66,268       | 13%   | \$571,622   | 1.39                         | 13.58%     |
| Adams Street Non-US Dev. 2010 Fund | \$1,500,000  | April 27, 2010   | \$713,066   | 48% | \$43,228       | 3%    | \$767,715   | 1.14                         | 5.69%      |
| Adams Street Non-US EM 2010 Fund   | \$500,000    | January 3, 2011  | \$297,000   | 59% | \$0            | 0%    | \$331,135   | 1.11                         | 6.44%      |
| Adams Street US 2010 Fund          | \$2,500,000  | April 27, 2010   | \$1,136,866 | 45% | \$104,933      | 4%    | \$1,608,535 | 1.51                         | 15.69%     |
| Adams Street 2013 Global Fund      | \$5,000,000  | July 3, 2013     | \$1,420,904 | 28% | \$0            | 0%    | \$1,416,109 | 1.00                         | -0.37%     |
| Flag Global Partners               | \$5,000,000  | January 17, 2012 | \$2,400,000 | 48% | \$217,333      | 4%    | \$2,275,095 | 1.04                         | 2.57%      |
|                                    |              |                  |             |     |                |       |             |                              |            |
|                                    |              |                  |             |     |                |       |             |                              |            |
| Alternative Investments Composite  | \$15,000,000 | April 27, 2010   | \$6,426,572 | 43% | \$431,762      | 3%    | \$6,970,211 | 1.15                         | 8.32%      |
|                                    |              |                  |             |     |                |       |             |                              |            |

<sup>&</sup>lt;sup>1</sup> TVPI = Fair Value + Capital Distributed / Capital Called



## **Market Commentary**



### **U.S. Equity**

The U.S. stock market was up for the guarter by 1.6%. The market has not suffered a down quarter in nearly three years and is up a cumulative 60% since the credit crisis recovery point in early 2012. The Fed went to great lengths to express that, while a rise in rates is nearing, they are likely to be very cautious in the timing and pace of any increases. Several market factors support this stance such as good employment growth, low inflation and economic weakness in parts of Europe and China.

Large capitalization stocks underperformed smaller shares for the quarter while growth stocks led value. Sector performance was mixed during the guarter with Health Care and Consumer Discretionary the best performers. Utilities and Energy were the primary laggards, both hurt by lower oil prices.

There have been three major downward shifts in Treasury yields since the start of the last recession. Late 2008 brought the Citigroup bailout and quantitative easing. The bailout of Greece occurred in 2010 along with the possibility of more easing. Finally, 2011 included major political negotiations on raising the U.S. debt ceiling. After a steady rise, rates have again been falling. With the Fed set to raise the overnight rate, the big unknown at this point is whether longer term rates will move as well.

### Non-U.S. Equity

Global equity markets outside the U.S. started 2015 with strong gains, with European stocks leading the charge. Despite Greece's ongoing fiscal woes, the Eurozone began to show signs of economic recovery; recent moves by European central banks to relax monetary policy, including quantitative easing bond-buying programs, sent stock prices soaring. Pacific region stocks also rallied as their economies achieved more solid footing in the first quarter, aided by sharply lower energy prices. Although China and India enjoyed big gains, other emerging market economies experienced more muted performance, especially in the Americas.

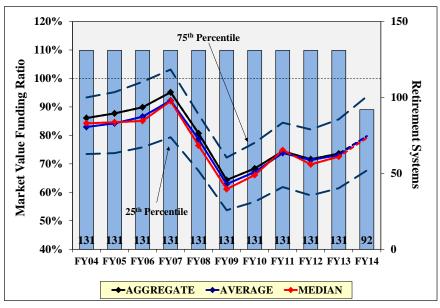
### **Fixed Income**

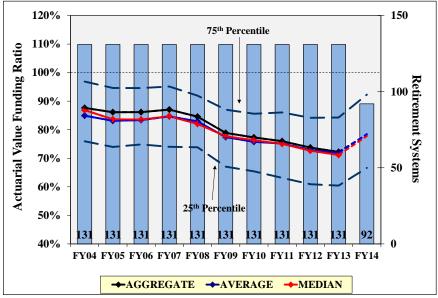
The U.S. Treasury yield curve flattened during the first quarter; yields on paper above one year maturity fell, especially in the short-intermediate band of the curve. Treasuries benefited from investor unease over a possible U.S. economic slowdown accompanied by remarkably low inflation. European bond markets held their own in local-currency terms, although the rally in U.S. Treasuries dampened their gains. Emerging market bonds also managed positive performance. The strong U.S. dollar, however, erased this quarter's global market gains for U.S.-based investors. 40

## Wilshire 2015 State Funding Study



- 92 state retirement systems reported actuarial values on or after June 30, 2014
- Improvement in funding ratio fueled by rallying global stock markets in the 12 months ending June 30
- Funding ratios based on actuarial values were up for 2014
- Although pension liabilities grew, asset growth was far stronger



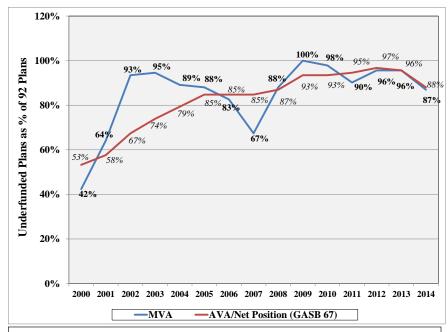


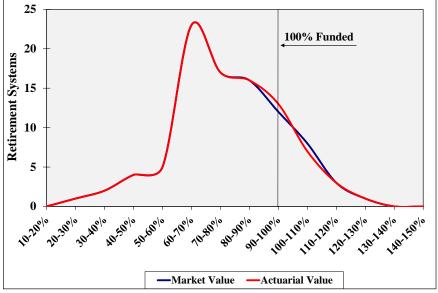
# Wilshire 2015 State Funding Study



Of the 92 plans with 2014 data,
 87% of them were underfunded based on market values

 On a market value basis, a majority of the 92 plans are less than or equal to 80% funded

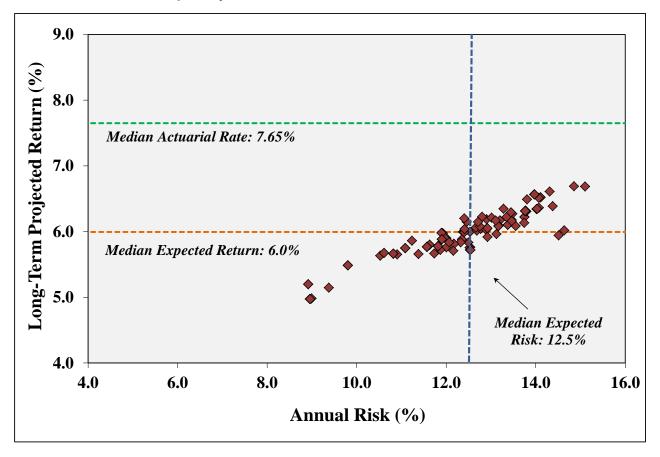




# Wilshire 2015 State Funding Study



- Using Wilshire Consulting's asset class assumptions to calculate return forecasts for the 131 plans in our study, the median expected return is 6.0% per year
- None of the plans are projected to meet or exceed the median actuarial rate of 7.65%

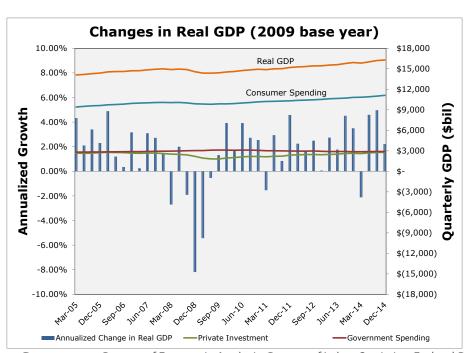


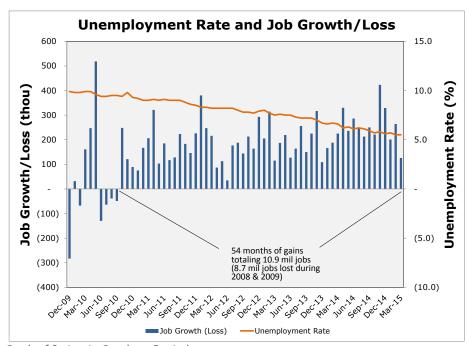
### **Economic Review**



| March 31, 2015          |           | Key Ecor | nomic Indicators  |               |
|-------------------------|-----------|----------|-------------------|---------------|
| CPI (all items)         | Monthly C | Change   | Cumulativ         | ve Change     |
| Seasonally adjusted     | Mar-15    | 0.2      | 3-Month           | -0.2          |
|                         | Feb-15    | 0.2      | 12-Month          | 0.0           |
|                         | Jan-15    | -0.7     | 10-Yr Annual      | 2.0           |
| Breakeven Inflation     | 10-Year   | 1.8      |                   |               |
| Consumer Sentiment      | Mar-15    | 93.0     |                   |               |
| Unv. of Michigan Survey | Feb-15    | 95.4     |                   |               |
|                         | 1-Yr Ago  | 80.0     | 10-Yr Avg         | 77.1          |
| Manufacturing           | Mar-15    | 51.5     | Change in Manufac | turing Sector |
| Inst. for Supply Mgmt   | Feb-15    | 52.9     | >50               | Expansion     |
| Purchasing Mngrs' ldx   | 1-Yr Avg  | 55.5     | <50               | Contraction   |

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



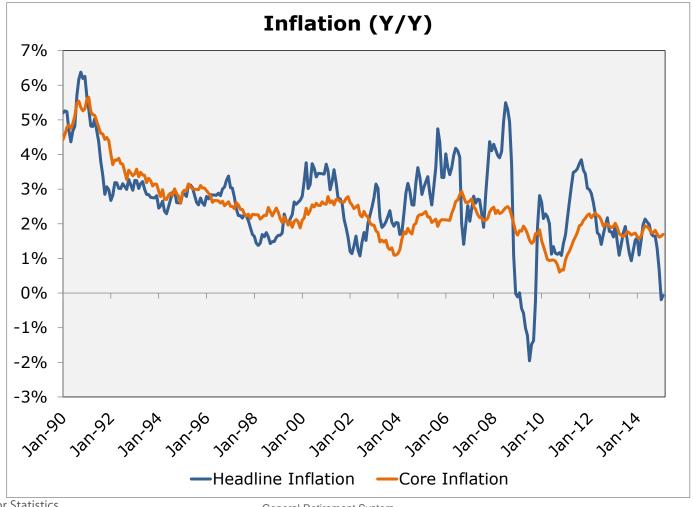


Data sources: Bureau of Economic Analysis, Bureau of Labor Statistics, Federal Reserve Bank of St. Louis, Barclays Capital

### **Inflation Picture**



- Headline inflation down due to falling oil prices, Core inflation (ex food and energy) has moderated just under 2%
- Headline inflation does tend to eventually effect core prices



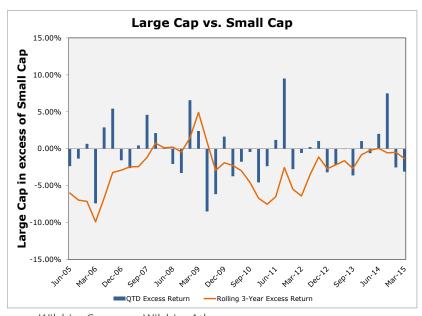
45

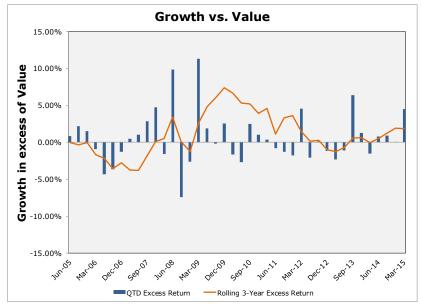
## **U.S. Equity Market**



| March 31, 2015                    | Qtr  | Ytd  | 1 Yr | 3 Yr | 5 Yr | 10 Yr |
|-----------------------------------|------|------|------|------|------|-------|
| Wilshire 5000                     | 1.6  | 1.6  | 12.3 | 16.2 | 14.6 | 8.4   |
| Wilshire U.S. Large Cap           | 1.3  | 1.3  | 12.7 | 16.0 | 14.4 | 8.2   |
| Wilshire U.S. Small Cap           | 4.5  | 4.5  | 8.8  | 17.6 | 15.9 | 10.4  |
| Wilshire U.S. Large Growth        | 3.8  | 3.8  | 17.1 | 17.3 | 15.3 | 9.4   |
| Wilshire U.S. Large Value         | -1.0 | -1.0 | 9.0  | 15.0 | 13.7 | 7.0   |
| Wilshire U.S. Small Growth        | 5.7  | 5.7  | 7.9  | 17.9 | 17.1 | 11.1  |
| Wilshire U.S. Small Value         | 3.5  | 3.5  | 9.7  | 17.3 | 14.7 | 9.7   |
| Wilshire REIT Index               | 4.7  | 4.7  | 25.2 | 14.2 | 16.1 | 9.6   |
| MSCI USA Minimum Volatility Index | 2.3  | 2.3  | 16.2 | 15.2 | 15.0 | 8.0   |
| FTSE RAFI U.S. 1000 Index         | 0.3  | 0.3  | 10.2 | 17.3 | 14.6 | 9.3   |







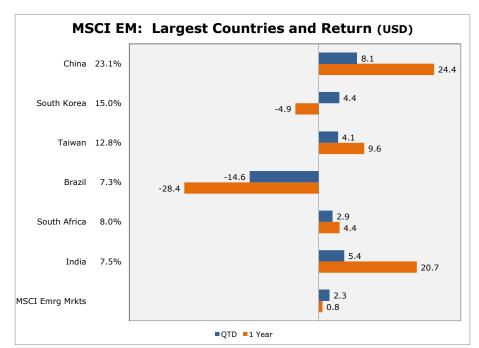
Data sources: Wilshire Compass, Wilshire Atlas

# Non-U.S. Equity Market



| March 31, 2015                   | Qtr  | Ytd  | 1 Yr | 3 Yr | 5 Yr | 10 Yr |
|----------------------------------|------|------|------|------|------|-------|
| MSCI ACWI ex-US (\$g)            | 3.6  | 3.6  | -0.6 | 6.9  | 5.3  | 5.9   |
| MSCI EAFE (\$g)                  | 5.0  | 5.0  | -0.5 | 9.5  | 6.6  | 5.4   |
| MSCI Emerging Markets (\$g)      | 2.3  | 2.3  | 0.8  | 0.7  | 2.1  | 8.8   |
| MSCI Frontier Markets (\$g)      | -2.9 | -2.9 | -3.2 | 10.8 | 5.5  | 2.7   |
| MSCI ACWI ex-US Growth (\$g)     | 4.9  | 4.9  | 2.1  | 7.5  | 6.1  | 6.3   |
| MSCI ACWI ex-US Value (\$g)      | 2.2  | 2.2  | -3.3 | 6.2  | 4.4  | 5.5   |
| MSCI ACWI ex-US Small (\$g)      | 4.0  | 4.0  | -3.3 | 7.8  | 6.9  | 7.3   |
| MSCI EAFE Minimum Volatility Idx | 6.4  | 6.4  | 9.0  | 11.5 | 9.7  | 8.0   |
| FTSE RAFI Developed ex-US Index  | 3.5  | 3.5  | -3.2 | 9.0  | 5.5  | 6.1   |
| MSCI EAFE LC (g)                 | 11.0 | 11.0 | 18.3 | 17.2 | 9.6  | 6.6   |
| MSCI Emerging Markets LC (g)     | 4.9  | 4.9  | 11.3 | 6.8  | 5.9  | 10.5  |



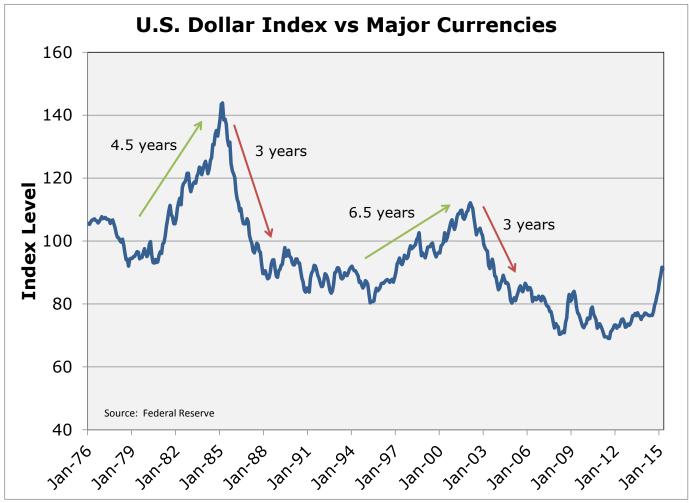


Data sources: Wilshire Compass

## U.S. Dollar



- Strengthening dollar has detracted from U.S. investors' foreign assets
- Two periods in the past 40 years where the dollar has gone on extended runs; the dollar is down, though, in total



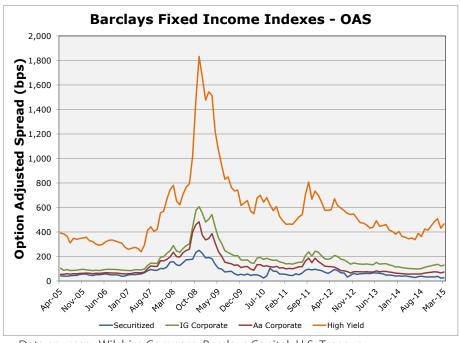
General Retirement System

48

## **U.S. Fixed Income Market**



| March 31, 2015                 | Qtr | Ytd | 1 Yr | 3 Yr | 5 Yr | 10 Yr |
|--------------------------------|-----|-----|------|------|------|-------|
| Barclays Aggregate Bond Index  | 1.6 | 1.6 | 5.7  | 3.1  | 4.4  | 4.9   |
| Barclays Treasury Index        | 1.6 | 1.6 | 5.4  | 2.4  | 4.0  | 4.6   |
| Barclays Govt-Related Index    | 1.4 | 1.4 | 5.5  | 2.9  | 3.9  | 4.7   |
| Barclays Securitized Index     | 1.1 | 1.1 | 5.4  | 2.6  | 3.8  | 4.8   |
| Barclays Corporate IG Index    | 2.3 | 2.3 | 6.8  | 5.2  | 6.5  | 5.9   |
| Barclays LT Govt/Credit Index  | 3.4 | 3.4 | 15.7 | 7.7  | 10.2 | 7.7   |
| Barclays LT Treasury Index     | 4.0 | 4.0 | 21.4 | 7.7  | 10.6 | 7.9   |
| Barclays LT Govt-Related Index | 2.3 | 2.3 | 14.1 | 6.7  | 9.7  | 7.8   |
| Barclays LT Corporate IG Index | 3.3 | 3.3 | 12.6 | 8.1  | 9.9  | 7.4   |
| Barclays U.S. TIPS Index       | 1.4 | 1.4 | 3.1  | 0.6  | 4.3  | 4.6   |
| Barclays High Yield Index      | 2.5 | 2.5 | 2.0  | 7.5  | 8.6  | 8.2   |
| Treasury Bills                 | 0.0 | 0.0 | 0.0  | 0.1  | 0.1  | 1.5   |



Treasury Yield Curve

4.00
3.50
3.00

2.50

Decident Surve Yield Curve

4.00
3.50

3.00

Annual Curve Treasury Yield Curve

4.00

3.50

Annual Curve Treasury Yield Curve

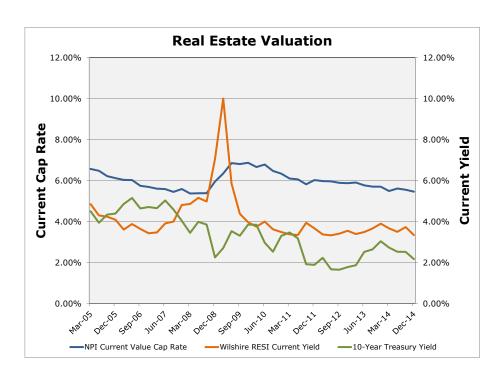
4.00

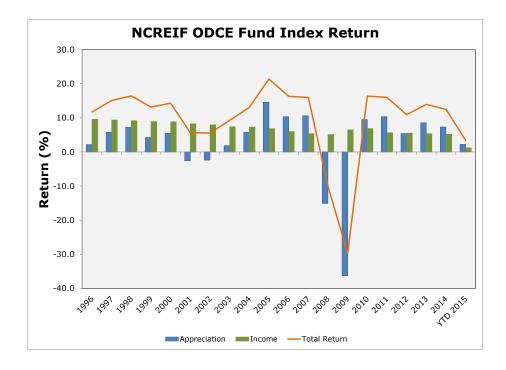
Data sources: Wilshire Compass, Barclays Capital, U.S. Treasury

## Real Assets



| March 31, 2015                | Qtr  | Ytd  | 1 Yr  | 3 Yr  | 5 Yr | 10 Yr |
|-------------------------------|------|------|-------|-------|------|-------|
| Barclays U.S. TIPS Index      | 1.4  | 1.4  | 3.1   | 0.6   | 4.3  | 4.6   |
| Bloomberg Commodity Index     | -5.9 | -5.9 | -27.0 | -11.5 | -5.7 | -3.6  |
| Wilshire Global REIT Index    | 4.1  | 4.1  | 20.4  | 13.6  | 15.0 | 8.7   |
| NCREIF ODCE Fund Index        | 3.4  | 3.4  | 13.5  | 12.7  | 14.5 | 7.0   |
| NCREIF Timberland Index       | 1.8  | 1.8  | 10.6  | 9.8   | 6.2  | 8.3   |
| Alerian MLP Index (Oil & Gas) | -5.2 | -5.2 | -2.5  | 9.2   | 13.7 | 13.0  |





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

## **Asset Class Performance**



#### Annual Asset Class Returns - Best to Worst

| 2010        | 2011        | 2012        | 2013        | 2014        | YTD 2015    |
|-------------|-------------|-------------|-------------|-------------|-------------|
| MLPs        | MLPs        | Emrg Mrkts  | U.S. Equity | REITs       | Developed   |
| 35.9%       | 13.9%       | 18.6%       | 33.1%       | 31.8%       | 5.0%        |
| REITs       | U.S. TIPS   | Developed   | MLPs        | U.S. Equity | REITs       |
| 28.6%       | 13.6%       | 17.9%       | 27.6%       | 12.7%       | 4.7%        |
| Emrg Mrkts  | REITs       | REITs       | Developed   | Core Bond   | High Yield  |
| 19.2%       | 9.2%        | 17.6%       | 23.3%       | 6.0%        | 2.5%        |
| U.S. Equity | Core Bond   | U.S. Equity | High Yield  | MLPs        | Emrg Mrkts  |
| 17.2%       | 7.8%        | 16.1%       | 7.4%        | 4.8%        | 2.3%        |
| Commodities | High Yield  | High Yield  | REITs       | U.S. TIPS   | U.S. Equity |
| 16.8%       | 5.0%        | 15.8%       | 1.9%        | 3.6%        | 1.6%        |
| High Yield  | U.S. Equity | U.S. TIPS   | T-Bills     | High Yield  | Core Bond   |
| 15.1%       | 1.0%        | 7.0%        | 0.1%        | 2.5%        | 1.6%        |
| Developed   | T-Bills     | MLPs        | Core Bond   | T-Bills     | U.S. TIPS   |
| 8.2%        | 0.1%        | 4.8%        | -2.0%       | 0.0%        | 1.4%        |
| Core Bond   | Developed   | Core Bond   | Emrg Mrkts  | Emrg Mrkts  | T-Bills     |
| 6.5%        | -11.7%      | 4.2%        | -2.3%       | -1.8%       | 0.0%        |
| U.S. TIPS   | Commodities | T-Bills     | U.S. TIPS   | Developed   | MLPs        |
| 6.3%        | -13.3%      | 0.1%        | -8.6%       | -4.5%       | -5.2%       |
| T-Bills     | Emrg Mrkts  | Commodities | Commodities | Commodities | Commodities |
| 0.1%        | -18.2%      | -1.0%       | -9.5%       | -17.0%      | -5.9%       |

Annualized 5-Year

| 5-Year        |
|---------------|
| as of Mar '15 |
| REITs         |
| 16.1%         |
| U.S. Equity   |
| 14.6%         |
| MLPs          |
| 13.7%         |
| High Yield    |
| 8.6%          |
| Developed     |
| 6.6%          |
| Core Bond     |
| 4.4%          |
| U.S. TIPS     |
| 4.3%          |
| Emrg Mrkts    |
| 2.1%          |
| T-Bills       |
| 0.1%          |
| Commodities   |
| -5.7%         |
|               |

Data sources: Wilshire Compass

# Private Markets Update

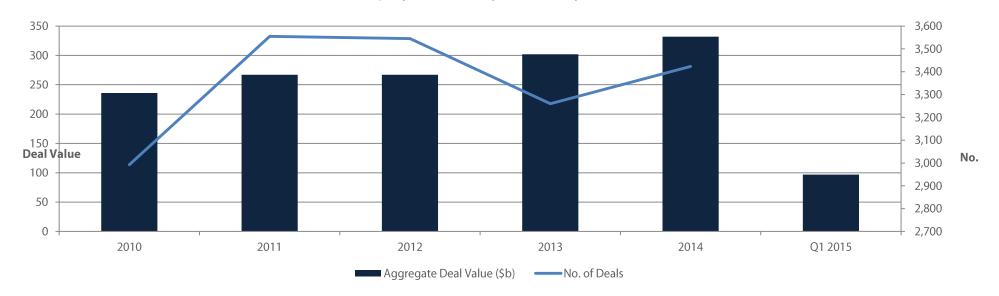




#### Global Private Equity Fundraising (Q1 2010 – Q1 2015)



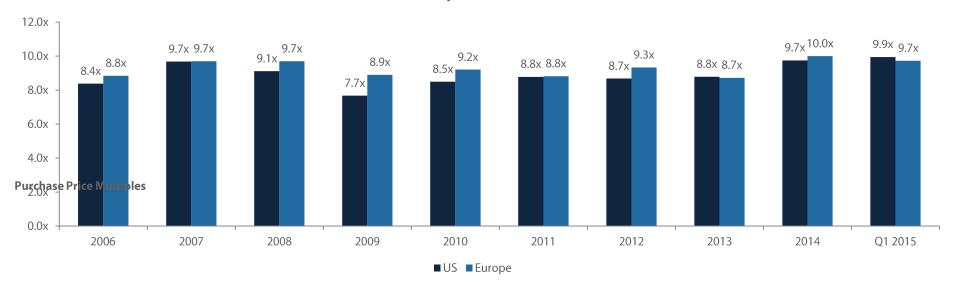
### **Global Private Equity–Backed Buyout Activity (2010 –Q1 2015)**



# Private Equity – Pricing & Valuations



### **Global LBO Multiples (2006 – Q1 2015)**



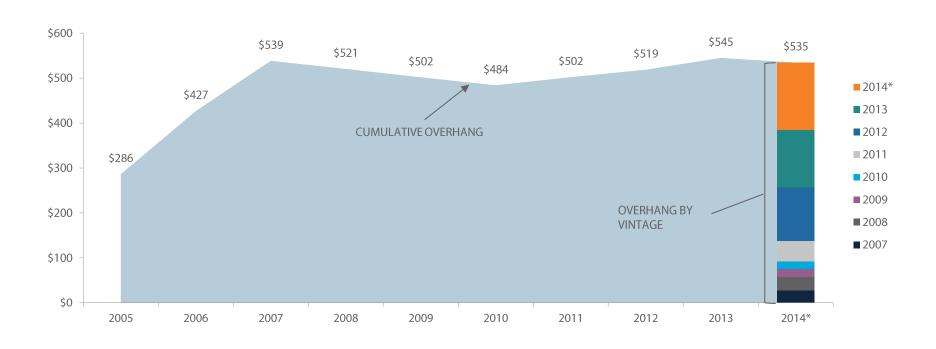
### U.S. Venture Capital Median Pre-Money Valuations (2009 –2014)



## Private Equity – Capital Overhang



### Cumulative Vintage Year Overhang

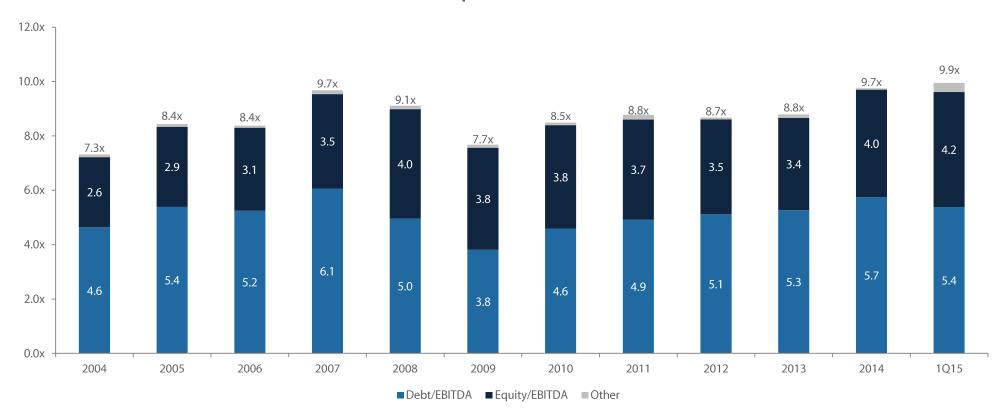


- Total private equity overhang significantly grew to an estimated \$539 billion during the run-up to the financial crisis
- While the overhang slightly decreased across 2007 through 2010, the overhang has steadily increased over the last few years to a near-peak level





### **Purchase Price Multiples of U.S. LBO Transactions**

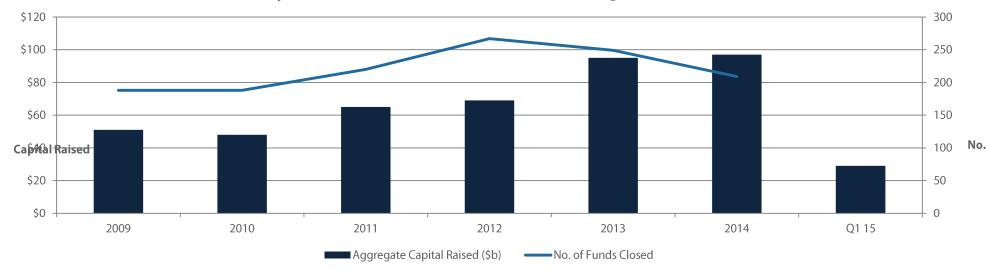


- As the debt markets have come back, purchase price multiples have increased from the low point in 2009
- Pricing in Q1 2015 is above the peak level in 2007

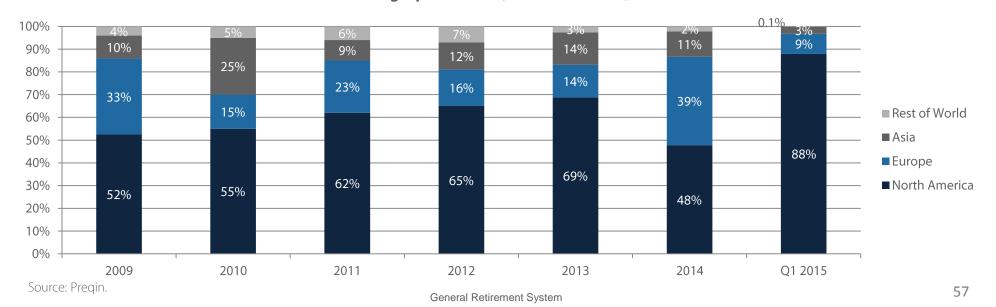


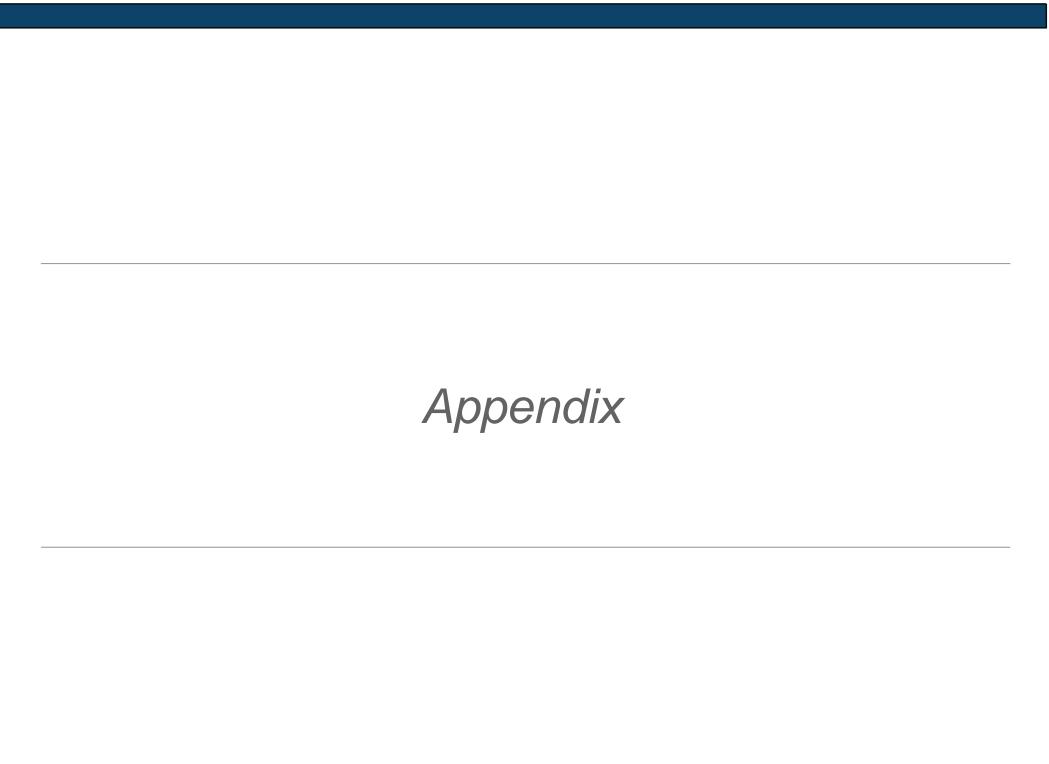


### **Quarterly Closed-End Private Real Estate Fundraising (2009 – Q1 2015)**



# Proportion of Aggregate Capital Raised by Closed-End Private Real Estate Funds by Fund Geographic Focus (2009 – Q1 2015)



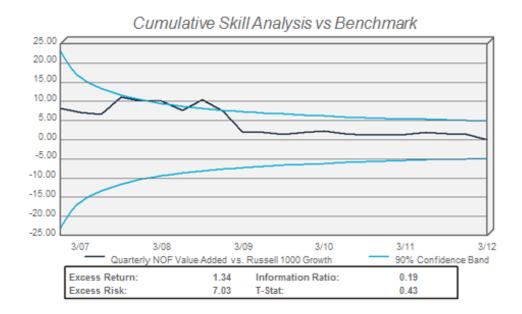


## Glossary



### 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.



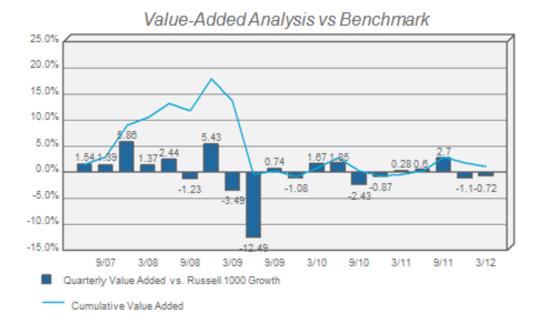
Data sources: Wilshire Compass

## 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