

TALENT • HEALTH • RETIREMENT • INVESTMENTS

## NORTH CAROLINA SUPLEMENTAL RETIREMENT PLANS ANNUAL REVIEW 2014

Jay Love, CFA Partner

Kelly S. Henson Principal



## Annual Review 2014 Table of Contents

- Retirement Readiness Check
- Plan Line-up Review
- Goal Maker Changes
- Fund Performance and Fee Review
- Fixed Income Fund

## **Retirement Readiness Check**

### Plan Benchmarking Total Plan Benchmarking Considerations

- Currently NCSRP looks at the number of participants who are positioned to be able to replace 80% of their income in retirement
  - This benchmark is industry standard and commonly used by plan sponsors and the investment community
- NCSRP may want to consider additional benchmarks for your Plan to form a more comprehensive view of retirement readiness for your participants
- Additional benchmark considerations
  - Average participant performance versus the cost to purchase the DB annuity
  - Percentage of participants that are positioned to be able to live above the poverty line until the age of 85 or older
  - Projected outcomes of an average NCSRP participant relative to actual participant results over time

## Plan Line-up Review

## Plan Line-up Review Current Structure

|              | <b>Tier I</b><br>Lifecycle Fund<br>(Reluctant Investor) | <b>Tier II - A</b><br><b>Passive Core Options</b><br>(Proactive Investor) | <b>Tier II - B</b><br><b>Active Core Options</b><br>(Proactive Investor) | <b>Tier III</b><br><b>Specialty Options</b><br>(Very Active Investor) |
|--------------|---|---|--|---|
| Conservative |   |   | Capital Preservation   |   |
|              |   | Core Fixed Income   | Core Fixed Income  |   |
|              | Toward Data Frieda                                      |   | Inflation Sensitive  |   |
|              | Target Date Funds                                       | Large Cap Equity  | Large Cap Growth<br>Equity<br>Large Cap Value<br>Equity                  |   |
|              |   |   |  |   |
|              |   | Non- US Equity  |  |   |
|              |   |   | World ex-US Equity   |   |
|              |   |   | Small/Mid Cap<br>Growth Equity   |   |
|              |   | Small/Mid Cap Equity  | Small/Mid Cap Value<br>Equity  |   |
| Aggressive   |   |   | Global Equity  | 5   |

## Plan Line-up Review Consolidate and Streamline

- Having too many investment choices has been shown to create participant confusion and lead to ineffective investment results
- The optimal plan lineup reduces the investment options to only those needed to create an appropriate risk/return or growth/income profile
- Each plan option should be designed to provide the optimal long term exposure for a broad investment goal
  - Eliminate all portfolio construction decisions below the asset allocation level
- The required investment types may be:
  - High Growth (Global Equity)
  - Low Growth (Diversified Bonds)
  - Capital Preservation (Stable Value)
  - Inflation Protection (Diversified Inflation Fund)

## Plan Line-up Review Streamlined Structure



### Plan Line-up Review Streamlined Structure - Equity Consolidation Menu



## **Goal Maker Review**

## Goal Maker Review Observations and Recommendations

### • Participant objectives are the key consideration

- Target a reasonable and sustainable real income in retirement
- Running out of funds during retirement is a significant concern

### • Develop a custom Glidepath based on participants and other benefits

- The glidepath should be customized to provide the best expected replacement ratio for the typical North Carolina employee
- Scenario and simulation modelling provides insight into the most effective glidepath

### • Through Retirement

- Our preference is for solutions through a participant's life not just to retirement
- At least a low risk stable income fund for the post retirement period should be added
- 71% of TDF programs offer through retirement programs (not to retirement)\*

### Event-risk reduction

- Protect participants from losing significant portions of their savings near or during retirement
- Protect savings and income against the loss of purchasing power due to inflation

### • Explicitly Incorporate North Carolina's DB annuity purchase option into the design

The inclusion of the DB option in the analysis will have a significant impact on the optimal design

\*Statistic pulled from Mercer's quarterly target date survey

### Goal Maker Review Observations and Recommendations

### • Fund Spacing: 5 Years

- The spacing between funds should be 5 years but no more than 10 years
- This will require at least five new funds, seven if post-retirement funds are added

### Include Investments that are not in the Core Lineup

- There are investments that would be beneficial to the target date funds that are not appropriate as standalone funds, such as emerging market debt, bank loans or emerging markets equity
- A mechanism to include such assets would improve fund effectiveness

### Offer one fund per age cohort

- Offering multiple funds for each age group introduces additional complexity to the participants decision process
- With multi-year time horizons, there is no benefit to offering various risk levels, there is an
  optimal allocation for a given time horizon
- A customized glidepath for the North Carolina participant base also helps reduce the need for various risk levels

### • Default to auto-rolldown

- The GoalMaker program historically defaulted to a static allocation without age adjustment
- Currently it is an "opt out" procedure for the age adjustment

## Performance and Fee Review

## Performance Review Evaluation Criteria

#### **Overall Assessment**

- If the fund/manager is failing 2 of the three criteria or is currently on the watch list
- If the fund/manager is failing one of the three criteria or has personnel or business concern
- If the fund/manager is achieving all objectives

#### Vs. Benchmark

- Y If the fund/manager's three year return is outperforming two or more of the trailing four quarters
- X If the fund/manager's three year return is trailing three or more of the trailing four quarters

#### Vs. Peer Group

- $\checkmark$  If the fund/manager's three year return is outperforming two or more of the trailing four quarters
- $\ge$  If the fund/manager's three year return is trailing three or more of the trailing four quarters

#### **Standard Deviation**

- VIF the fund/manager's 5 year standard deviation is either less than 150% of the benchmark or greater with additional return
- If the fund/manager's 5 year standard deviation is either greater than 150% of the benchmark or greater with less return

#### Firm, Team, Strategy

- $\checkmark$  If there have been no changes of concern at the firm, team and strategy
- X If there have been any changes at the firm, team or strategy that cause concern

## Manager Performance Review

| 2013 Year End Review | Overall<br>Assessment | Vs<br>Benchmark | Vs Peer<br>Group | Standard<br>Deviation | Firm, Team,<br>Process |
|----------------------|-----------------------|-----------------|------------------|-----------------------|------------------------|
| Sands Capital        |                       | ~               | 1                | 1                     | *                      |
| Wellington           | $\bigcirc$            | ×               | 1                | V                     | 1                      |
| Neuberger Berman     |                       | ×               | ×                | 1                     | ×                      |
| Hotchkis & Wiley     |                       | 1               | -                | $\checkmark$          | <b></b>                |
| Wellington           |                       | ×               | ×                |                       | ×                      |
| Robeco               |                       | 1               | -                | 1                     | ×                      |
| Timesquare           |                       | ×               | ×                | 1                     | ×                      |
| Brown                |                       | 1               | ×                | 1                     | ×                      |
| Hotchkis & Wiley     |                       | 1               |                  | 1                     | ×                      |
| Wedge Capital        |                       | 1               | 1                | 1                     | ×                      |
| Earnest Partners     | $\bigcirc$            | 1               | ×                | 1                     | ×                      |
| Bailie Gifford       |                       | 1               | 1                | 1                     | 1                      |
| Mondrian             |                       | *               | ×                | 1                     | ×                      |
| Wellington           |                       | 1               | 1                | 1                     | ×                      |
| Arrowstreet          |                       | 1               | 1                | *                     | ×                      |
| JP Morgan            |                       |                 | ~                | 1                     | 1                      |
| PIMCO                |                       | 1               | ×                | ×                     | 1                      |

## Fund Performance Review

| 2013 Year End Review       | Overall<br>Assessment | vs<br>Benchmark | Vs Peer<br>Group | Standard<br>Deviation |
|----------------------------|-----------------------|-----------------|------------------|-----------------------|
| Large Cap Growth Fund      |                       |                 | *                | N/A                   |
| Large Cap Value Fund       |                       | <b>V</b>        | 1                | N/A                   |
| Large Cap Passive          |                       | *               | N/A              | N/A                   |
| SMID Growth Fund           |                       | ×               | 1                | N/A                   |
| SMID Value Fund            |                       | *               | 1                | N/A                   |
| SMID Passive Fund          |                       | 1               | N/A              | N/A                   |
| International Equity Fund  | $\bigcirc$            | *               | ×                | N/A                   |
| International Passive Fund |                       | 1               | N/A              | N/A                   |
| Global Equity Fund         |                       | <b>*</b>        | 1                | N/A                   |
| Inflation Sensitive Fund   | N/A                   | N/A             | N/A              | N/A                   |
| Fixed Income Fund          |                       | <b>V</b>        | *                | N/A                   |
| Fixed Income Passive Fund  | N/A                   | N/A             | N/A              | N/A                   |
| Stable Value Fund          |                       | <b>V</b>        | ×                | N/A                   |

## Manager Fee Review

| 2013 Year End Review | Fee Rank                 | Performance Rank         |
|----------------------|--------------------------|--------------------------|
| Sands Capital        | 3 <sup>rd</sup> Quartile | 1 <sup>st</sup> Quartile |
| Wellington           | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| Neuberger Berman     | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| Hotchkis & Wiley     | 3 <sup>rd</sup> Quartile | 2 <sup>nd</sup> Quartile |
| Wellington           | 1 <sup>st</sup> Quartile | 2 <sup>nd</sup> Quartile |
| Robeco               | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| Timesquare           | 4 <sup>th</sup> Quartile | 1 <sup>st</sup> Quartile |
| Brown                | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| Hotchkis & Wiley     | 2 <sup>nd</sup> Quartile | 1 <sup>st</sup> Quartile |
| Wedge Capital        | 3 <sup>rd</sup> Quartile | 2 <sup>nd</sup> Quartile |
| Earnest Partners     | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| Bailie Gifford       | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| Mondrian             | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| Wellington           | 2 <sup>nd</sup> Quartile | 1 <sup>st</sup> Quartile |
| Arrowstreet          | 3 <sup>rd</sup> Quartile | 1 <sup>st</sup> Quartile |
| JP Morgan            | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| PIMCO                | 2 <sup>nd</sup> Quartile | 1 <sup>st</sup> Quartile |

1<sup>st</sup> quartile is the best and 4<sup>th</sup> quartile is the worst

## Fund Fee Review

| 2013 Year End Review      | Fee Rank                 | Performance Rank         |
|---------------------------|--------------------------|--------------------------|
| Large Cap Growth Fund     | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| Large Cap Value Fund      | 1 <sup>st</sup> Quartile | 3 <sup>rd</sup> Quartile |
| SMID Growth Fund          | 2 <sup>nd</sup> Quartile | 2 <sup>nd</sup> Quartile |
| SMID Value Fund           | 1 <sup>st</sup> Quartile | 1 <sup>st</sup> Quartile |
| International Equity Fund | 1 <sup>st</sup> Quartile | Median                   |
| Global Equity Fund        | 1 <sup>st</sup> Quartile | Median                   |
| Fixed Income Fund         | 1 <sup>st</sup> Quartile | Median                   |

1<sup>st</sup> quartile is the best and 4<sup>th</sup> quartile is the worst

# Stable Value Review Fees

• The North Carolina Stable Value Fund's weighted average wrap fee is currently 0.16%; according to providers surveyed by Mercer, fees for new wrap contracts typically range from 0.20% to 0.25%, with the median averaging 0.21%.

| Plan                | Stable Value<br>Assets     | Stable Value Manager               | Total Expense Ratio |
|---------------------|----------------------------|------------------------------------|---------------------|
| North Carolina      | \$2.0 billion              | Galliard                           | 0.34%               |
| Maryland            | \$0.8 billion              | Deutsche Asset & Wealth Management | 0.50%               |
| MTA                 | \$1.7 billion              | Galliard                           | 0.31%               |
| New York City       | \$4.8 billion              | 7 managers                         | 0.30%               |
| City of Los Angeles | \$0.9 billion <sup>1</sup> | Galliard                           | 0.28% <sup>2</sup>  |
| LA County           | \$3.8 billion              | Invesco                            | 0.32%               |
| State of Kentucky   | \$0.7 billion              | Invesco                            | 0.36%               |

Data was primarily gathered from websites for each Plan. Asset amounts cited are approximations as of 9/30/2013 unless otherwise noted.

<sup>1</sup> As of 6/30/2013.

<sup>2</sup>0.28% expense ratio reflects investment management fees only and does not include wrap fees.

## Underlying Investment Management Fees Intermediate and Short Duration Universe Comparison

| Prudential*         |              |  |  |
|---------------------|--------------|--|--|
| Account Size (\$MM) | \$557        |  |  |
| Fee (bps)           | 6.0          |  |  |
|                     |              |  |  |
| Percent Rank        | 1st Quartile |  |  |
| Upper Quartile:     | 25.5         |  |  |
| Median:             | 20.9         |  |  |
| Lower Quartile:     | 16.8         |  |  |
| Number of Vehicles: | 113          |  |  |

| PIMCO               |              |  |  |
|---------------------|--------------|--|--|
| Account Size (\$MM) | \$327        |  |  |
| Fee (bps)           | 23.0         |  |  |
|                     |              |  |  |
| Percent Rank        | 3rd Quartile |  |  |
| Upper Quartile:     | 26.0         |  |  |
| Median:             | 22.3         |  |  |
| Lower Quartile:     | 18.2         |  |  |
| Number of Vehicles: | 115          |  |  |

| Great West Life*    |              |  |  |
|---------------------|--------------|--|--|
| Account Size (\$MM) | \$526        |  |  |
| Fee (bps)           | 5.0          |  |  |
|                     |              |  |  |
| Percent Rank        | 1st Quartile |  |  |
| Upper Quartile:     | 25.6         |  |  |
| Median:             | 21.0         |  |  |
| Lower Quartile:     | 16.9         |  |  |
| Number of Vehicles: | 113          |  |  |

| Payden & Rygel      |              |  |  |
|---------------------|--------------|--|--|
| Account Size (\$MM) | \$334        |  |  |
| Fee (bps)           | 14.0         |  |  |
|                     |              |  |  |
| Percent Rank        | 2nd Quartile |  |  |
| Upper Quartile:     | 20.7         |  |  |
| Median:             | 16.3         |  |  |
| Lower Quartile:     | 12.8         |  |  |
| Number of Vehicles: | 136          |  |  |

| Galliard            |              |  |  |
|---------------------|--------------|--|--|
| Account Size (\$MM) | \$270        |  |  |
| Fee (bps)           | 7.3          |  |  |
|                     |              |  |  |
| Percent Rank        | 1st Quartile |  |  |
| Upper Quartile:     | 20.9         |  |  |
| Median:             | 17.0         |  |  |
| Lower Quartile:     | 13.6         |  |  |
| Number of Vehicles: | 135          |  |  |

• All underlying investment management fees are significantly below or in-line with the peer group median. \* These managers offer provide wrap coverage for the portfolio. Prudential wraps 39.2% at 17bps and Great West wraps 22.9% at 15bps.

## Disclaimer

## Disclaimer Important Notices

References to Mercer shall be construed to include Mercer LLC and/or its associated companies.

© 2013 Mercer LLC. All rights reserved.

This contains confidential and proprietary information of Mercer and is intended for the exclusive use of the parties to whom it was provided by Mercer. Its content may not be modified, sold or otherwise provided, in whole or in part, to any other person or entity, without Mercer's prior written permission.

The findings, ratings and/or opinions expressed herein are the intellectual property of Mercer and are subject to change without notice. They are not intended to convey any guarantees as to the future performance of the investment products, asset classes or capital markets discussed. Past performance does not guarantee future results. Mercer's ratings do not constitute individualized investment advice.

Information contained herein has been obtained from a range of third party sources. While the information is believed to be reliable, Mercer has not sought to verify it independently. As such, Mercer makes no representations or warranties as to the accuracy of the information presented and takes no responsibility or liability (including for indirect, consequential or incidental damages), for any error, omission or inaccuracy in the data supplied by any third party.

This does not constitute an offer or a solicitation of an offer to buy or sell securities, commodities and/or any other financial instruments or products or constitute a solicitation on behalf of any of the investment managers, their affiliates, products or strategies that Mercer may evaluate or recommend.

For the most recent approved ratings of an investment strategy, and a fuller explanation of their meanings, contact your Mercer representative.

For Mercer's conflict of interest disclosures, contact your Mercer representative or see www.mercer.com/conflictsofinterest.

Mercer universes: Mercer's universes are intended to provide collective samples of strategies that best allow for robust peer group comparisons over a chosen timeframe. Mercer does not assert that the peer groups are wholly representative of and applicable to all strategies available to investors.

The value of your investments can go down as well as up, and you may not get back the amount you have invested. Investments denominated in a foreign currency will fluctuate with the value of the currency. Certain investments, such as securities issued by small capitalization, foreign and emerging market issuers, real property, and illiquid, leveraged or high-yield funds, carry additional risks that should be considered before choosing an investment manager or making an investment decision.

Returns for periods greater than one year are annualized. Returns are calculated net of investment management fees, unless noted as gross of fees.

Style analysis graph time periods may differ reflecting the length of performance history available.

THE FOLLOWING PROVISIONS APPLY TO DATA OR OTHER SERVICES PROVIDED BY THE FOLLOWING COMPANIES: Where "End User" appears before the Vendor name, a direct end-user license with the Vendor is required to receive some indices. You are responsible for ensuring you have in place all such licenses as are required by Vendors.

BARCLAYS: © Barclays Bank PLC 2013. This data is provided by Barclays Bank PLC. Barclays Bank PLC and its affiliated companies accept no liability for the accuracy, timeliness or completeness of such data which is provided "as is." All warranties in relation to such data are hereby extended to the fullest extent permitted under applicable law.

**BARCLAYS CAPITAL:** The Barclays Indices are a proprietary product of Barclays. Barclays shall maintain exclusive ownership of and rights to the Barclays Indices and that inclusion of the Barclays Indices in this Service shall not be construed to vest in the subscriber any rights with respect to the Indices. The subscriber agrees that it will not remove any copyright notice or other notification or trade name or marks of Barclays that may appear in the Barclays Indices and that any reproduction and/or distribution of the Barclays Indices (if authorized) shall contain such notices and/or marks.

**BLOOMBERG L.P.:** © 2013 Bloomberg L.P. All rights reserved. BLOOMBERG, BLOOMBERG PROFESSIONAL, BLOOMBERG FINANCIAL MARKETS, BLOOMBERG NEWS, BLOOMBERG TRADEMARK, BLOOMBERG BONDTRADER, AND BLOOMBERG TELEVISION are trademarks and service marks of Bloomberg L.P. a Delaware Limited Partnership.

### Disclaimer Important Notices

BNY Mellon Asset Servicing: Source: © 2013 BNY Mellon Performance Risk and Analytics, LLC. All Rights Reserved.

**CITIGROUP GLOBAL MARKETS (formerly SALOMON SMITH BARNEY):** Smith Barney<sup>sm</sup> and Citigroup Global Equity Index<sup>sm</sup> are service marks of Citigroup Inc. "BECAUSE ACCURACY COUNTS®" is a registered service mark of Citigroup Inc. FloatWatch® is a trade mark of Citigroup Inc. Citigroup Global Equity Index System<sup>sm</sup>, Citigroup Broad Market Index<sup>sm</sup>, Citigroup Primary Market Index<sup>sm</sup>, Citigroup Extended Market Index<sup>sm</sup>, Citigroup Cap-Range Index<sup>sm</sup>, Citigroup Intent Index (NIX)<sup>sm</sup>, Citigroup Style Indices (Growth/Value)<sup>sm</sup>, Citigroup Property Index<sup>sm</sup> are service marks of Citigroup Inc. ©2013 Citigroup Inc All rights reserved. Any unauthorized use, duplication or disclosure is prohibited by law and may result in prosecution. Citigroup, including its parent, subsidiaries and/or affiliates ("the Firm"), usually makes a market in the securities discussed or recommended in its report and may sell to or buy from customers, as principal, securities discussed or recommended in its report. The Firm or employees preparing its report may have a position in securities or options of any company discussed or recommended in its report. An employee of the Firm may be a director of a company discussed or recommended in its report. The Firm may perform or solicit investment banking or other services from any company discussed or recommended in its report. Securities recommended, offered, or sold by SSB: (i) are not insured by the Federal Deposit Insurance Corporation; (ii) are not deposits or other obligations of any insured depository institution (including Citibank); and (iii) are subject to investment risks, including the possible loss of the principal amount invested. Although information has been obtained from and is based upon sources SSB believes to be reliable, we do not guarantee its accuracy and it may be incomplete or condensed. All opinions and estimates constitute SSB's judgment as of the date of the report and are subject to change without notice. Its report is for informational purposes only and is not intended a

CREDIT SUISSE FIRST BOSTON LLC. (CSFB): Copyright © 1996 - 2013 Credit Suisse First Boston LLC and/or its affiliate companies. All rights reserved.

#### DataStream: Source: ThomsonReuters Datastream

Dow Jones: The Dow Jones IndexesSM are proprietary to and distributed by Dow Jones & Company, Inc. and have been licensed for use. All content of Dow Jones IndexesSM © 2013 is proprietary to Dow Jones & Company, Inc.

"End User" FTSE™: is a trade mark of the London Stock Exchange PLC and The Financial Times Limited and is used by FTSE International Limited under license. Russell Investment Group Europe Ltd is licensed by FTSE International Limited to distribute FTSE Advanced Service and other FTSE indices. FTSE shall not be responsible for any error or omission in FTSE data. All copyright and database rights in FTSE products belong to FTSE or its licensors. Redistribution of the data comprising the FTSE products is not permitted. You agree to comply with any restrictions or conditions imposed upon the use, access, or storage of the data as may be notified to you by FTSE or Russell/Mellon Europe Ltd. You are not permitted to receive the FTSE Advanced Service unless you have a separate agreement with FTSE. "FTSE™", "FT-SE™" and "Footsie™" are trade marks of London Stock Exchange PLC and The Financial Times Limited and are used by FTSE International Limited under license.

The FTSE Private Investor Indices are owned and calculated by FTSE International and are produced in association with APCIMS (Association of Private Client Investment Managers and Stockbrokers). ã FTSE International Limited 2013

The UK Value and Growth Indices are owned and calculated by FTSE International Limited in association with Russell Investment Group. a FTSE International Limited 2013.

**RUSSELL INVESTMENT GROUP:** Russell Investment Group is the source and owner of certain of the data contained or reflected in this material and all trademarks and copyrights related thereto. The material may contain confidential information and unauthorized use, disclosure, copying, dissemination or redistribution is strictly prohibited. This is a user presentation of the data. Russell Investment Group is not responsible for the formatting or configuration of this material or for any inaccuracy in presentation thereof. Returns and security data for the Russell indices are provided by Mellon Analytical Solutions. Russell indices are trademarks/service marks of the Russell Investment Group. Russell® is a trademark of the Russell Investment Group.

HFRI: Source: Hedge Fund Research, Inc., © HFR, Inc. 2013, www.hedgefundresearch.com

JPMORGAN: The JPMorgan EMBI Index (i) is protected by copyright and JPMorgan claims trade secret rights, (ii) is and shall remain the sole property of JPMorgan, and (iii) title and full ownership in the JPMorgan EMBI Index is reserved to and shall remain with JPMorgan. All proprietary and intellectual property rights of any nature, including patents, copyrights, trademarks and trade secrets regarding the JPMorgan EMBI Index, and any and all parts, copies, modifications, enhancements and derivative works are owned by, and shall remain the property of JPMorgan and its affiliates. The JPMorgan EMBI Index and related materials and software were developed, compiled, prepared and arranged by JPMorgan through expenditure of substantial time, effort and money and constitute valuable intellectual property and trade secrets of JPMorgan. The JPMorgan EMBI Index shall not be used in a manner that would infringe the property rights of JPMorgan or others or violate the laws, tariffs, or regulations of any country.

### Disclaimer Important Notices

LIPPER: Performance data was supplied by Lipper, A Thomson Reuters Company, subject to the following: Copyright 2013 © Thomson Reuters. All rights reserved. Any copying, republication or redistribution of Lipper Information, including by caching, framing or similar means, is expressly prohibited without the prior written consent of Lipper. Lipper shall not be liable for any errors or delays in the Information, or for any actions taken in reliance thereon. Lipper performance data is total return, and is preliminary and subject to revision. The data contained herein has been obtained from company reports, financial reporting services, periodicals, and other resources believed to be reasonable. Although carefully verified, data on compilations is not guaranteed by Lipper Inc. - A Reuters Company and may be incomplete. No offer or solicitations to buy or sell any of the securities herein is being made by Lipper. Portions of the information contained in this report was derived by Mercer using Content supplied by Lipper, A Thomson Reuters Company.

**MERRILL LYNCH:** The Merrill Lynch Indices are used with permission. Copyright 2013, Merrill Lynch, Pierce, Fenner & Smith Incorporated. All rights reserved. The Merrill Lynch Indices may not be copied, used, or distributed without Merrill Lynch's prior written approval.

This Product is not sponsored, endorsed, sold or promoted by Merrill Lynch. Merrill Lynch makes no guarantees, representations or warranties of any kind, express or implied, to any person, including, without limitation, any member of the public regarding the use of the Indices in the Product, the advisability of investing in securities generally or of the ability of the Index to track any market performance. Merrill Lynch's only relationship to Mellon Analytical Solutions or any other person or entity in respect to this Product is limited to the licensing of the Merrill Lynch Indices, which are determined, composed, and calculated by Merrill Lynch without regard to Mellon Analytical Solutions or this Product. Merrill Lynch retains exclusive ownership of the Indices and the programs and trademarks used in connection with the Indices. Merrill Lynch has no obligation to take the needs of Mellon Analytical Solutions or the purchasers, investors or participants in the Product into consideration in determining, composing or calculating the Indices, nor shall Merrill Lynch have any obligation to continue to calculate or provide the Indices in the future. Merrill Lynch may, in its absolute discretion and without prior notice, revise or terminate the Indices at any time. IN NO EVENT SHALL MERRILL LYNCH OR ANY OF ITS PARTNERS, AFFILIATES, EMPLOYEES, OFFICERS, DIRECTORS OR AGENTS HAVE ANY LIABILITY TO ANY PERSON OR ENTITY FOR ANY INDIRECT, PUNITIVE, SPECIAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS.

**MOODY'S INVESTORS SERVICE:** Moody's © Copyright 2013, Moody's Investors Service, Inc. ("Moody's). Moody's ratings ("Ratings") are proprietary to Moody's or its affiliates and are protected by copyright and other intellectual property laws. Ratings are licensed to Distributor by Moody's. RATINGS MAY NOT BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT. Moody's® is a registered trademark of Moody's Investors Service, Inc.

**MSCI®:** Portions of this report are copyright MSCI 2013. Unpublished. All Rights Reserved. This information may only be used for your internal use, may not be reproduced or redisseminated in any form and may not be used to create any financial instruments or products or any indices. This information is provided on an "as is" basis and the user of this information assumes the entire risk of any use it may make or permit to be made of this information. Neither MSCI, any of its affiliates or any other person involved in or related to compiling, computing or creating this information makes any express or implied warranties or representations with respect to such information or the results to be obtained by the use thereof, and MSCI, its affiliates and each such other person hereby expressly disclaim all warranties (including, without limitation, all warranties of originality, accuracy, completeness, timeliness, non-infringement, merchantability and fitness for a particular purpose) with respect to this information. Without limiting any of the foregoing, in no event shall MSCI, any of its affiliates or any other person involved in or reating this information have any liability for any direct, indirect, special, incidental, punitive, consequential or any other damages (including, without limitation, lost profits) even if notified of, or if it might otherwise have anticipated, the possibility of such damages. MSCI is a registered trademark of MSCI, Inc.

NAREIT: NAREIT® is the exclusive registered mark of the National Association of Real Estate Investment Trusts.

NCREIF: All NCREIF Data - Copyright by the National Council of Real Estate Investment Fiduciaries. This information is proprietary and may not be reported in whole or in part without written permission.

**STANDARD & POOR'S:** Standard & Poor's information contained in this document is subject to change without notice. Standard & Poor's cannot guarantee the accuracy, adequacy or completeness of the information and is not responsible for any errors or omissions or for results obtained from use of such information. Standard & Poor's makes no warranties or merchantability or fitness for a particular purpose. In no event shall Standard & Poor's be liable for direct, indirect or incidental, special or consequential damages from the information here regardless or whether such damages were foreseen or unforeseen.

WILSHIRE ASSOCIATES: Copyright © 2013 Wilshire Associates Incorporated.



Services provided by Mercer Investment Consulting, Inc.