

# Comprehensive Annual Financial Report

For the fiscal year ended June 30, 2014



A component unit of the City of Richmond, Virginia

Leo F. Griffin, Executive Director  
Richmond Retirement System

**Richmond Retirement System**

**RRS**

*Building your financial future.*

# Comprehensive Annual Financial Report

for the fiscal year ended  
June 30, 2014

## Vision

Our vision is to be a recognized leader in pension fund management and administration, the standard by which others measure their progress and success. Every employee of the RRS displays a devotion to maintaining excellence in public service and embraces the highest standards of excellence, accountability, dependability and integrity. All participating employers, along with active, former and vested members, should take pride in knowing that the RRS provides the best retirement services available and is an exemplary steward of their pension funds.

## Mission

To deliver timely and effective communications and retirement services with integrity and professionalism to the members of the Richmond Retirement System, its Board of Trustees, City officials, departments, and City Council.

A publication of the  
**Richmond Retirement System,**  
A component unit of the City of Richmond, Virginia





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*Footbridge over the James River*



# Richmond Retirement System

## Financial and Statistical Highlights – Pension Trust Fund

(Dollars in Thousands)

<b>Activity for the Fiscal Year Ended June 30</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>	<b>2010</b>	<b>2009</b>
Contributions	\$44,461	\$42,539	\$41,132	\$42,191	\$34,616	\$35,821
Investment Income (Net of Investment Expenses)	\$76,463	\$54,219	\$1,896	\$93,770	\$59,128	(\$97,507)
Retirement Benefits and Refunds (Net of Investment Expenses)	\$67,321	\$64,775	\$70,086	\$62,474	\$61,340	\$62,937
Administrative Expenses (Net of Miscellaneous Income)	\$1,318	\$1,125	\$1,167	\$1,169	\$1,094	\$1,095
Increase (Decrease) in Net Assets Held in Trust for Pension Benefits	\$52,286	\$30,858	(\$28,226)	\$72,318	\$31,310	(\$125,719)
<b>Net Assets Held in Trust for Benefits at Fiscal Year End</b>	<b>\$544,904</b>	<b>\$492,619</b>	<b>\$461,761</b>	<b>\$489,987</b>	<b>\$417,669</b>	<b>\$385,938</b>
Contributions as a Percentage of Benefit Payments	66.04%	65.67%	58.7%	67.5%	56.4%	56.9%
Investment Income as a Percentage of Benefit Payments	113.58%	83.70%	2.7%	150.1%	96.4%	(154.9%)

### **Investment Performance (Net of Fees)**

One-Year Return	15.9%	11.8%	0.6%	22.6%	15.2%	(18.7%)
Three-Year Return	9.3%	–	–	–	–	–
Five-Year Return	13.1%	–	–	–	–	–

### **Members/Retirees**

Active DB Plan Members	2,065	2,219	2,360	2,498	2,616	2,782
Terminated Vested DB Plan Members	1,662	1,691	1,763	1,778	1,763	1,781
Active DC 401(a) Plan Members	1,865	1,765	1,735	1,656	1,632	1,614
Retirees and Beneficiaries	4,312	4,170	4,131	4,078	3,997	3,963
<b>TOTAL Members/Retirees</b>	<b>9,904</b>	<b>9,845</b>	<b>9,989</b>	<b>10,010</b>	<b>10,008</b>	<b>10,140</b>



*A historic Richmond home*

# Introductory Section

**In this section:**

Awards

Letter of Transmittal

Organizational Chart

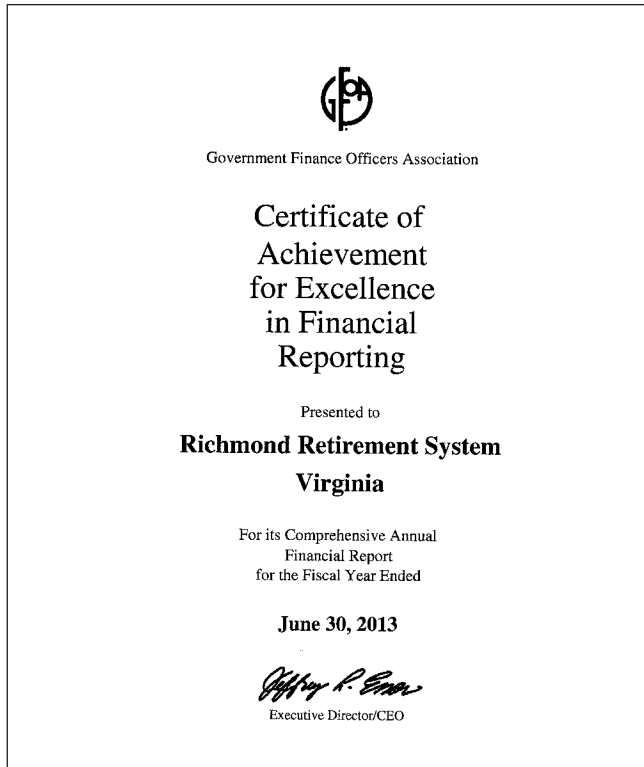
Board of Trustees

Executive Director

Investment Advisory Committee

Services, Examiners and Investment Managers

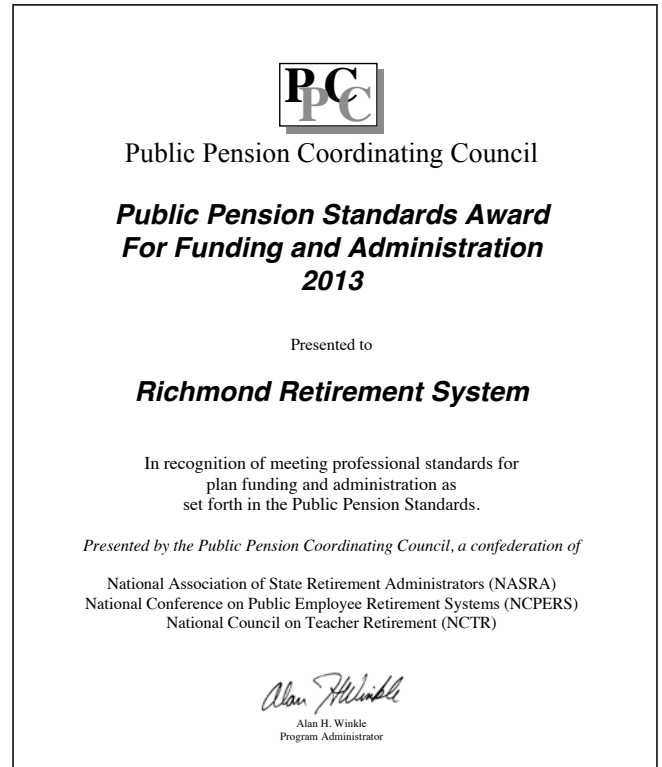
# Awards



## Certificate of Achievement for Excellence in Financial Reporting

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the RRS for its Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2013. This was the 23rd consecutive year that the RRS achieved this prestigious recognition.

To be awarded the certificate, a government unit must publish an easily readable and efficiently organized comprehensive annual report. This report must satisfy both generally accepted accounting principles and applicable legal requirements. The certificate is valid for a period of one year. The RRS's CAFR for FY 2014 continues to conform to the Certificate of Achievement Program requirements and will be submitted to GFOA to determine its eligibility for another certificate.



## Public Pension Coordinating Council Achievement Award

The RRS received the 2013 Achievement Award from the Public Pension Coordinating Council (PPCC) in recognition of the agency's excellence in meeting the Public Pension Standards. Developed by PPCC, these standards are the benchmark for measuring excellence in defined benefit plan funding and administration.

This is the fourth award from the PPCC. The purpose of the award is to promote high professional standards for public employee retirement systems and publicly commend systems that adhere to these standards. The PPCC is a coalition of the National Association of State Retirement Administrators (NASRA), National Conference on Public Employee Retirement Systems (NCPERS) and the National Council on Teacher Retirement (NCTR).

# Letter of Transmittal



## City of Richmond, Virginia

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RICHMOND RETIREMENT SYSTEM

The Honorable City Council  
City of Richmond  
900 East Broad Street, Suite 200  
Richmond, VA 23219

October 16, 2014

*and*

The Honorable Mayor Dwight C. Jones  
City of Richmond  
900 East Broad Street, Suite 201  
Richmond, VA 23219

Dear City Council Members and Mayor Jones:

On behalf of the Board of Trustees of the Richmond Retirement System (RRS or the System) and in accordance with city of Richmond code § 78-54, I am pleased to submit the Comprehensive Annual Financial Report (CAFR) for the fiscal year (FY) ended June 30, 2014. The CAFR was prepared by the RRS, a component unit of the city of Richmond, and management maintains responsibility for the accuracy and completeness of the presentation including all disclosures.

On October 16, 2014 Cherry Bekaert LLP, an independent auditor, issued an unqualified opinion for our financial statements for the fiscal year ended June 30, 2014. Their report is included on page 18 of the CAFR.

In addition to the Introductory Section, the RRS's CAFR contains a Financial Section, Investment Section, Actuarial Section, and Statistical Section. The Letter of Transmittal is designed to complement Management's Discussion and Analysis (MD&A) and should be read in conjunction with it. The MD&A can be found in the Financial Section on page 20 and provides in-depth analysis of the RRS's financial statements.

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**Richmond Retirement System**

900 East Broad Street • Suite 400 • Richmond, VA 23219  
Phone: 804-646-5958 • 1-888-288-2781 • Fax: 804-646-5299  
<http://www.richmondgov.com/retirement>





# City of Richmond, Virginia

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## RICHMOND RETIREMENT SYSTEM

### Overview

The RRS was first established in 1945 by Richmond City Council and reestablished by the acts of the Virginia General Assembly in 1998, 2005, 2008, and 2010. The System administers defined benefit and defined contribution 401(a) plans for approximately 10,000 members, retirees, and beneficiaries in accordance with provisions outlined in both the Richmond City Charter (5B.01) and Chapter 78 of the Code of the city of Richmond. Two employers participate in the RRS on behalf of their employees. They include the city of Richmond and the Richmond Behavioral Health Authority.

Chapter 78 of the Code of the city of Richmond details how these plans are administered. On July 1, 2006, the defined benefit plan was closed to newly hired and rehired employees, except sworn police officers and firefighters, and eligible senior executive employees. For all members, vesting occurs with five years of creditable service, or upon attainment of the member's normal retirement age. For sworn police officers and firefighters, this is age 60. For all other employees, referred to as "general employees," the normal retirement age is age 65.

Additional information about RRS plans, members, and participating employers, are provided on pages 32-37 and 73-77.

### Governance

The Richmond City Council has delegated authority to the Board of Trustees (the Board) to invest the System's trust funds. To fulfill this obligation, the Board developed investment objectives and policy guidelines to manage its investments. The investment objectives include ensuring that funds are available to meet current and future obligations of the plan and to earn an investment return greater than the actuarial return assumption.

State Street Corporation serves as the fund's custodian bank. NEPC, LLC serves as the Board's investment consultant and investment managers are selected by the Board to best manage the fund's assets within each manager's area of expertise. More information about the RRS' investment policies can be found on pages 52-55 of this CAFR.

The Richmond City Council and the Board are responsible for discharging their duties solely in the interest of the members and beneficiaries of the System and shall invest the assets with the care, skill, prudence, and diligence under the circumstances then prevailing that a prudent person acting in a like capacity and familiar with such matters would use in the conduct of an enterprise of like character and like aims (city of Richmond Code §78-82(d)).

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# City of Richmond, Virginia

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## RICHMOND RETIREMENT SYSTEM

### Accounting Basis and Internal Control

Financial statements included in the CAFR have been prepared in accordance with generally accepted accounting principles (GAAP) for governmental accounting and reporting under the Governmental Accounting Standards Board (GASB) and the Financial Accounting Standards Board (FASB).

The accrual basis of accounting is used in the preparation of the financial statements. Revenues are recognized when they are earned and become measurable; expenses are recognized when the liabilities are incurred. Investments are reported at fair value. In management's opinion, the financial statements fairly present RRS' net position at June 30, 2014 and the changes in its plan net position.

RRS management is responsible for maintaining a system of adequate internal controls designed to provide reasonable, rather than absolute assurance, that the financial statements are free of any material misstatements. The concept of reasonable assurance recognizes that these controls should be cost-effective and that the cost of a control should not exceed the benefits to be derived from that control. In management's opinion, the internal controls in effect during FY 2014 adequately safeguard the RRS's assets and provide reasonable assurance regarding the proper recording of financial transactions.

### Funding

The funded status is the ratio of assets to actuarial liabilities, and acts as an indicator of the System's ability to pay its long-term obligations. As of June 30, 2014, the funded status, as determined by the System's actuary, SageView Consulting Group, LLC, was 63.8% compared to 55.9% the prior year. The funded status increased by 7.9% primarily due to the fiscal year investment return exceeding the actuarial assumed rate of return. Other factors impacting the increase in the funded status include changes in actuarial methodology required by GASB 67 and a change in plan assumptions resulting from a five-year Experience Study. Generally speaking, a plan that is 80% funded is considered "healthy" and in a strong position to meet its long-term benefit obligations.

To improve the System's funded status and its ability to pay its long-term obligations, the System uses a Board approved long-term actuarial assumed rate of return of 7.5%, which it reduced from 8.0% effective July 1, 2011. That same fiscal year, the Board also modified its ad hoc cost of living allowance (COLA) policy. The policy states that the Board will not recommend an ad hoc COLA to the City Council unless the System's funded status is 70% or greater and remains above 70% after the ad hoc COLA is granted. The last ad hoc COLA was approved and granted by the City Council in FY 2009.

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# City of Richmond, Virginia

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## RICHMOND RETIREMENT SYSTEM

The Administration and City Council should remain committed to the improvement of the System's funded status through actions such as continuing to fund the Actuarially Determined Contribution and restraint on benefit enhancements without the proper funding allocated to the System.

### **Investments**

For the fiscal year ended June 30, 2014, RRS' investment portfolio returned 16.5% on a gross-of-fees basis (15.9% on a net-of-fees basis) compared to a gross investment return of 12.3% (11.8% net-of-fees) in the prior year. For the trailing ten-year period ending June 30, 2014, RRS' gross return of 8.0% ranked the System in the 8th percentile (1% being the highest, 100% being the lowest), outpacing 92% of other public funds within the Investor-Force Public Fund Universe.

As of June 30, 2014, the fair market value of the RRS investment portfolio was \$587.2 million, an increase of \$54.7 million from the prior year. The primary reason for the increase in the portfolio relates to the robust 15.9% net-of-fees investment return earned during the fiscal year. The RRS's net position available for benefits at June 30, 2014 totaled \$544.9 million, an increase of \$52.3 million from the prior year.

### **Highlights and Major Initiatives**

In FY 2014, the City Council adopted Ordinance No. 2013-109 regarding a Voluntary Retirement Incentive Program for city of Richmond employees. The RRS implemented this program with 133 members retiring effective November 1, 2013.

For the fiscal year ended June 30, 2014, the RRS adopted GASB 67, a new financial reporting standard required by the Governmental Accounting Standards Board.

The RRS was awarded a Certificate of Achievement for Excellence in Financial Reporting by the GFOA for the fiscal year ended June 30, 2013. This national award is granted to governments whose comprehensive annual financial reports meet or exceed the GFOA's guidelines. Additionally, the RRS was awarded a Certificate of Funding and Administration by the Public Pension Coordinating Council (PPCC) for the fiscal year ended June 30, 2013.

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# City of Richmond, Virginia

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*RICHMOND RETIREMENT SYSTEM*

## **Acknowledgments**

I would like to express my gratitude to the Board of Trustees, Investment Advisory Committee, and my staff. I would also like to thank City Council and the Mayor of the city of Richmond for your support of the Richmond Retirement System. Your guidance and commitment to improve the funded status of the Richmond Retirement System is valued. I thank you for your continued support.

Respectfully submitted,

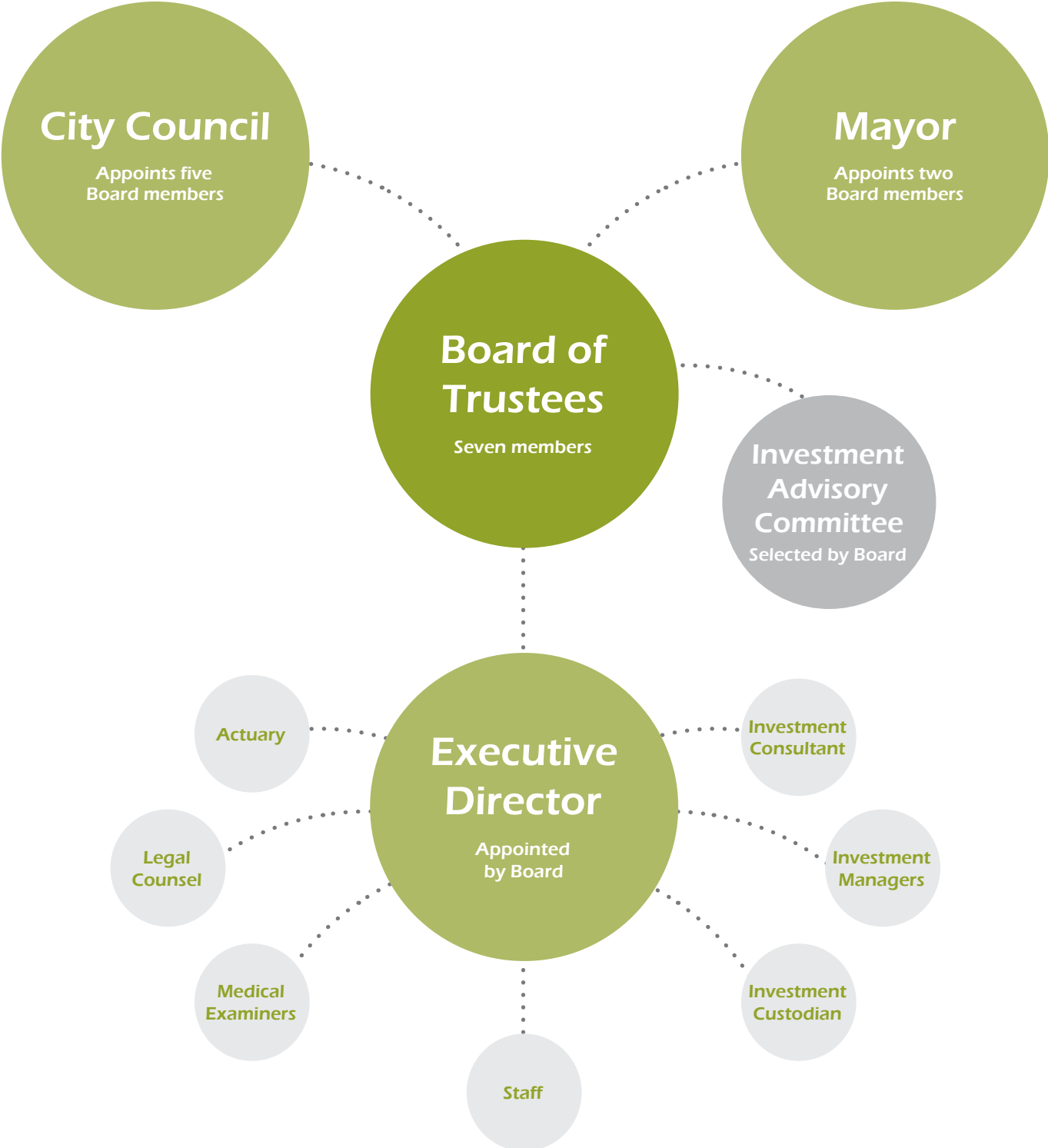
Leo F. Griffin, CPA  
Executive Director

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<http://www.richmondgov.com/retirement>

# Organizational Chart



The Schedule of Fees and Commissions is located on page 59 and 60 of this report.

## Board of Trustees



**Kenneth N. Daniels, Ph.D.**  
**Chairman**  
*Professor of Finance*  
Virginia Commonwealth University



**Jacquelyn E. Stone, Esq.**  
**Vice Chairman**  
*Partner*  
McGuire Woods, LLP



**S. Brian Farmer, Esq.**  
*Treasurer and Business Section Chairman*  
Hirschler Fleischer



**Lawrence Glidewell, Jr.**  
*Battalion Chief, Fire & Emergency Services*  
City of Richmond



**Matthew E. Peanort**  
*Budget & Management Analyst,*  
*Department of Budget and Strategic Planning*  
City of Richmond

## Executive Director



**Leo F. Griffin, CPA**  
*Executive Director*  
Richmond Retirement System

# Investment Advisory Committee

**Kenneth N. Daniels, Ph.D., Chairman**

*Professor of Finance*  
Virginia Commonwealth University

**S. Brian Farmer, Esq.**

*Treasurer and Business Section Chairman*  
Hirschler Fleischer

**Michael Hultzapple, CPA, CFA®**

*Managing Director*  
Alpha Performance Verification Services

**Basil L. Hurst III**

*Head of Business Development and Investor Relations*  
Stelliam Investment Management LP

**W. Massie Meredith, Jr.**

*Managing Member*  
Alternative Investments Group, LLC

**Gregory A. Schnitzler, CFA®**

*Managing Partner*  
Ascential Equity, LLC

**Donald A. Steinbrugge, CFA®**

*Managing Partner*  
Agecroft Partners, LLC

**Wayne Lassiter, Ex Officio**

*Interim Director of Finance*  
City of Richmond

**Leo F. Griffin, CPA**

*Executive Director*  
Richmond Retirement System

# Services, Examiners and Investment Managers

## Professional Services

### Consulting Actuary

**SageView Consulting Group, LLC**  
William M. Dowd, FCA, EA, MAAA  
4421 Cox Road  
Glen Allen, VA 23060

### Independent Auditor

**Cherry Bekaert LLP**  
200 South 10th Street, Suite 900  
Richmond, VA 23219

### Investment Consultant

**NEPC, LLC**  
Kevin Leonard, *Partner*  
255 State Street  
Boston, MA 02109

### Investment Custodian

**State Street Corporation**  
Robert Taylor  
*Vice President, Public Fund Services*  
2 Avenue de Lafayette, 6th Floor  
Boston, MA 02111

## Medical Examiners

### Cardiopulmonary

Dr. Phillip B. Duncan

### Eye, Ear, Nose and Throat

Dr. Nicholas G. Tarasidis

### General Medicine

Dr. Barrington Bowser, Jr.  
Dr. Roderick Haithcock  
Dr. George Maughan

### Mental Health

Dr. William Brock

### Orthopedic

Dr. Robert S. Adelaar  
Dr. William Fleming  
Dr. Harry Shaia  
*OrthoVirginia*  
*Tuckahoe Orthopaedic Associates, Ltd.*

### Vascular Specialist

Dr. Broadie G. Newton  
*The Vascular Group at Richmond*  
*Surgical Group*

## Investment Managers

### Abbey Capital, Ltd.

1-2 Cavendish Row  
Dublin 1, Ireland

### ABS Investment Management, LLC

537 Steamboat Road  
Greenwich, CT 06830

### Acadian Asset Management, Inc.

One Post Office Square  
20th Floor  
Boston, MA 02109

### Audax Group, L.P.

101 Huntington Ave., 24th Floor  
Boston, MA 02199

### Axiom International Investors, LLC

33 Benedict Place  
Greenwich, CT 06830

### BlackRock Financial Management, Inc.

40 E. 52nd St.  
New York, NY 10022

### Brandywine Global Investment Management, LLC

2929 Arch St., 8th Floor  
Philadelphia, PA 19104

### CenterSquare Investment Management

630 W. Germantown Pike, Ste. 300  
Plymouth Meeting, PA 19462

### Chartwell Investment Partners

1235 Westlakes Dr., Suite 400  
Berwyn, PA 19312-2412

### EIG Global Energy Partners

1700 Pennsylvania Avenue, NW  
Suite 800  
Washington, D.C. 20006

### Fort Hill Investment Partners, LLC

Six Landmark Square, 6th Floor  
Stamford, CT 06901-2704

### Golub Capital

666 Fifth Avenue, 18th Floor  
New York, NY 10103

### Grantham, Mayo, Van Otterloo & Co., LLC

40 Rowes Wharf  
Boston, MA 02110

### Hughes Capital Management, Inc.

916 Prince Street, Third Floor  
Alexandria, VA 22314

### J.P. Morgan Asset Management

245 Park Ave.  
New York, NY 10017

### Lexington Partners, Inc.

111 Huntington Ave., Suite 3020  
Boston, MA 02199

### Loomis, Sayles & Co., L.P.

One Financial Center  
Boston, MA 02111

### LSV Asset Management

155 North Wacker Dr., Suite 4600  
Chicago, IL 60606

### Oaktree Capital Management

333 South Grand Ave., 28th Floor  
Los Angeles, CA 90071

### Orion Capital Managers

2 Cavendish Square, 6th Floor  
London W1G 0PD, England

### Pine Grove Associates, Inc.

25 De Forest Ave., 2nd Floor  
Summit, NJ 07901

### Private Advisors, LLC

Riverfront Plaza West  
901 East Byrd Street, Suite 1400  
Richmond, Virginia 23219

### Protégé Partners QP Fund, Ltd.

the MoMa Office Bldg.  
25 W. 53rd Street, 15th Floor  
New York, NY 10019

### State Street Global Advisors

State Street Financial Center  
One Lincoln St.  
Boston, MA 02111-2900

### StepStone Group, LLC

4350 La Jolla Village Dr., Suite 800  
San Diego, CA 92122

### Stone Harbor Investment Partners, L.P.

31 W 52nd St., 16th Floor  
New York, NY 10019

### TPG Opportunities Partners, L.P.

301 Commerce St., Suite 3300  
Fort Worth, TX 76102

### Tricadia Capital Management, LLC

780 Third Avenue, 29th Floor  
New York, NY 10017

### Westwood Management

200 Crescent Ct., Suite 1200  
Dallas, TX 75201





*Interior of the Virginia State Capital*

## Financial Section

*The RRS administers pension benefit plans for approximately 10,000 members, retirees and beneficiaries. The purpose of the financial section is to present the plan's assets for the fiscal year through the audited basic financial statements. To support this information, the section includes management's discussion and analysis as well as the notes to the financial statements.*

### **In this section:**

Report of Independent Auditor  
Management's Discussion and Analysis  
Summary of Financial Statements  
Asset Allocation  
Statement of Fiduciary Net Position  
Statement of Changes in Fiduciary Net Position  
Notes to Financial Statements  
*Summary of Significant Financial Policies*  
*Deposits and Investments*  
*Litigation*  
*Plan Description*  
*Contributions Required and*  
*Contributions Made*

# Report of Independent Auditor



To The Board of Trustees  
Richmond Retirement System  
City of Richmond, Virginia

We have audited the accompanying financial statements of the Richmond Retirement System (the “System”), a component unit of the City of Richmond, Virginia, as of and for the year ended June 30, 2014, and the related notes to the financial statements, which collectively comprise the System’s basic financial statements as listed in the table of contents.

## **Management’s Responsibility for the Financial Statements**

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

## **Auditor’s Responsibility**

Our responsibility is to express an opinion on the financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor’s judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity’s preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity’s internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

## **Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the System, as of June 30, 2014, and the respective changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

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## **Emphasis-of-Matter**

As discussed in Note 1 to the financial statements, the System adopted the provisions of Governmental Accounting Standards Board Statement No. 67, *Financial Reporting for Pension Plans — an amendment of GASB Statement No. 25*, effective July 1, 2013. Our opinion is not modified with respect to this matter.

## **Other Matters**

### *Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and pension trend information on pages 20-23 and 41-44, respectively, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### *Other Information*

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the System's basic financial statements. The Introductory Section, Supporting Schedules, Investment Section, Actuarial Section and Statistical Section are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The Supporting Schedules on pages 45-47 are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Supporting Schedules are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The Introductory, Investment, Actuarial and Statistical Sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

*Cherry Bekant LLP*

Richmond, Virginia  
October 16, 2014

# Management's Discussion and Analysis

The discussion and analysis of the Richmond Retirement System's (RRS) pension fund financial performance provides an overview of its financial activities and funding condition for the fiscal year ended June 30, 2014.

## Financial Highlights

The rate of return on investments during the fiscal year ended June 30, 2014 was 15.9% (net of fees) versus the expected rate of return of 7.5%.

The RRS's net position increased by approximately \$52.3 million to \$544,904,299 during fiscal year 2014. The total assets were \$ 596,207,976 and the total liabilities were \$51,303,676. The market value of the investment portfolio increased by approximately \$50.9 million.

The major components of the RRS's additions to net position were contributions of \$44.5 million and \$76.4 million in net investment gains. Total additions to net position were \$120.9 million.

The primary deductions of the RRS's net position were the retirement, survivor, and disability benefit payments to members and their beneficiaries; additional deductions were for administrative costs. Deductions for fiscal year 2014 totaled \$68.6 million, an increase of \$2.74 million or 4.16% over fiscal year 2013. The increase is primarily attributable to an increase in retirement benefits payments.

## Plan Membership

The table titled Plan Membership reflects the RRS's membership, including Defined Benefit Plan participants and Defined Contribution 401(a) Plan participants, as of the beginning and end of the year. Please see the Schedule of Membership on page 77 for a complete listing of active members by department.

The following table demonstrates the changes in retirees and beneficiaries during the period.

Count as of 6/30/2013	4,170
New Retirees	285
Benefits Terminated	(143)
Count as of 6/30/2014	<u>4,312</u>

## Plan Membership

	FY 2014	FY 2013	Increase/ (Decrease)	Percent Change
Active Vested DB Plan Members	1,835	2,018	(183)	-9.1%
Active Non-vested DB Plan Members	230	201	29	14.4%
Terminated Vested DB Plan Members	1,662	1,691	(29)	-1.7%
Active DC 401(a) Plan Members	1,865	1,765	100	5.7%
Retirees & Beneficiaries	<u>4,312</u>	<u>4,170</u>	<u>142</u>	<u>3.4%</u>
<b>Total:</b>	<u><b>9,904</b></u>	<u><b>9,845</b></u>	<u><b>59</b></u>	<u><b>0.6%</b></u>

## Financial Statements

The basic financial statements are designed to provide readers with a broad overview of the RRS's finances in a manner similar to a private-sector business and in accordance with U.S. Generally Accepted Accounting Principles (GAAP).

The Statement of Fiduciary Net Position on (page 24) presents information on all of the RRS's assets and liabilities, with the difference between the two reported as net position. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the system is improving or deteriorating.

The Statement of Changes in Fiduciary Net Position (page 25) displays the changes in the RRS's net position that occurred during the fiscal year. All changes in net position are reported as soon as the underlying event giving rise to the change occurs, regardless of the timing

of related cash flows. Thus, revenues and expenses are reported in the statement for some items that will result in cash flows in future fiscal periods (for example, administrative expenses and investment expenses).

The City of Richmond's basic financial statements present information about the RRS as a fiduciary pension trust fund. A fiduciary fund is used to account for resources held for the benefit of parties outside the government. Fiduciary funds are not available to support the City of Richmond's programs.

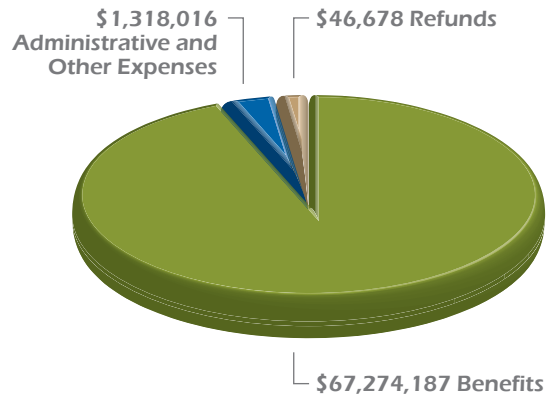
### Notes to the Financial Statements

The notes to the basic financial statements provide additional information essential for a full understanding of the information provided in the RRS's financial statements.

The condensed financial data of net position, additions, and deductions for the fiscal years ended June 30, 2014 and 2013 is on the next page.

### Pension Plan Activity

*Fiscal Year 2014*



# Summary of Financial Statements

## Activity for the Fiscal Year Ended June 30 (Dollars in Millions)

	FY 2014	Increase/ (Decrease)	FY 2013	Increase/ (Decrease)	FY 2012
Total Assets	\$596.21	\$55.84	\$540.37	\$17.95	\$522.42
Total Liabilities	(51.30)	(3.55)	(47.75)	12.91	(60.66)
<b>Net Assets</b>	<b>544.90</b>	<b>52.28</b>	<b>492.62</b>	<b>30.86</b>	<b>461.76</b>
Contributions	44.46	1.92	42.54	1.41	41.13
Net Investment Earnings	76.46	22.24	54.22	52.32	1.90
<b>Total Additions</b>	<b>120.92</b>	<b>24.16</b>	<b>96.76</b>	<b>53.73</b>	<b>43.03</b>
Benefits Payments	67.32	2.55	64.77	(5.31)	70.08
Administrative Expenses	1.32	0.19	1.13	(0.04)	1.17
<b>Total Deductions</b>	<b>68.64</b>	<b>2.74</b>	<b>65.90</b>	<b>(5.35)</b>	<b>71.25</b>
Total Additions	120.92	24.16	96.76	53.73	43.03
Total Deductions	(68.64)	(2.74)	(65.90)	5.35	(71.25)
<b>Net Change</b>	<b>52.29</b>	<b>\$21.43</b>	<b>\$30.86</b>	<b>\$59.09</b>	<b>\$(28.23)</b>

## Contribution Rates

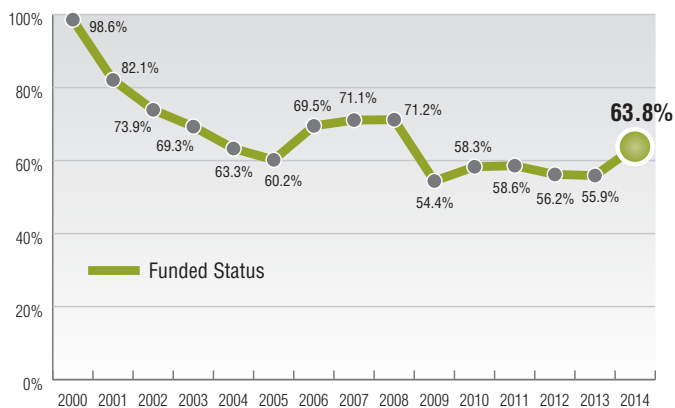
General	35.70%	31.46%	26.86%
Police/Fire	39.83%	37.35%	33.89%

## Funding Status

Of primary concern to most pension plan participants is the amount of money available to pay benefits. The City of Richmond has traditionally contributed the actuarially determined contributions (ADC) as determined by the RRS's actuary. Therefore, a net pension obligation has never existed for the system. This is due in large part to the City Code requirement that contributions to the RRS consist of a normal contribution plus an accrued liability contribution which, combined, equal the ADC.

For fiscal year ended on or before June 30, 2014, an indicator of funding status is the ratio of the actuarial value of the assets to the liability when using the Projected Unit Credit Method. Beginning with the fiscal year ended June 30, 2014, the funding status is determined using market value of assets and Entry Age Actuarial Cost Method. An increase in this percentage over time usually indicates a plan is becoming financially stronger. However, a decrease will not necessarily indicate a plan is in financial decline. Changes in actuarial assumptions can significantly impact the actuarial liability. Performance

## Schedule of Funding Progress *As of June 30, 2014*



in equity and fixed income markets can have a material impact on the market value of assets.

The table on page 23 indicates the policy target asset allocation as of June 30, 2014. In identifying the optimal asset mix strategy for the RRS, the Board of Trustees has adopted the aforementioned asset allocation policy. To ensure compliance with the policy, a rebalancing strategy is employed which requires periodic rebalancing for each asset class.

# Asset Allocation

Asset Class	Target Allocation	Target Range
<b>U.S. Equity Total:</b>	<b>23.00%</b>	
Large Cap Passive U.S. Equities	8.00%	3% - 13%
Large Cap U.S. Growth	5.00%	0% - 10%
Large Cap U.S. Value	5.00%	0% - 10%
Small/Mid Cap Growth U.S. Equities	2.50%	0% - 7.5%
Small/Mid Cap Value U.S. Equities	2.50%	0% - 7.5%
<b>International Equity Total:</b>	<b>15.00%</b>	
Developed International Equities	8.00%	3% - 13%
Emerging International Equities	7.00%	2% - 12%
<b>Fixed Income Total:</b>	<b>30.50%</b>	
Core Plus Bonds	9.50%	4.5% - 14.5%
High Yield Bonds	6.00%	0% - 9%
Global Bonds	4.00%	0% - 9%
Inflation Linked Bonds	4.00%	0% - 9%
Emerging Market Debt	4.00%	0% - 7%
Multi-Sector Fixed Income	2.00%	0% - 7%
Core Bonds	1.00%	0% - 6%
<b>Alternatives Total:</b>	<b>30.00%</b>	
Hedge Funds	12.00%	7% - 17%
Private Equity	8.00%	3% - 13%
Private Debt	5.00%	0% - 10%
Real Estate	5.00%	0% - 10%
Real Assets	0.00%	0% - 5%
<b>Cash Total:</b>	<b>1.50%</b>	0% - 5%

## Investment Activities

Investment income is vital to the RRS's current and continued financial stability. Therefore, the Board of Trustees has a fiduciary responsibility to act prudently when making investment decisions. To assist the Board in this area, a comprehensive formal investment policy is updated periodically.

As managers and asset classes have been added, specific detailed investment guidelines have been developed, adopted, and included as an addendum to each Investment Manager's Professional Service Contract.

The Board and its consultants, New England Pension Consultants, review portfolio performance quarterly. Performance is evaluated individually by money manager style, collectively by investment type and for the aggregate portfolio.

The RRS's Total Fund return overperformed the actuarial return assumption. The fund's investment return of 15.9% (net of fees) overperformed the long-term 7.5% actuarial return assumption target for the year. The RRS's Total Fund gained 13.1% on an average annual basis in the five-year period ending June 30, 2014, which exceeded the Total Fund benchmark for the same period. The Total Fund returns are reported net of fees. A schedule of investment results of one-year, three-year, and five-year average performance, with comparable benchmarks, is available in the Investment Section (see page 56.)

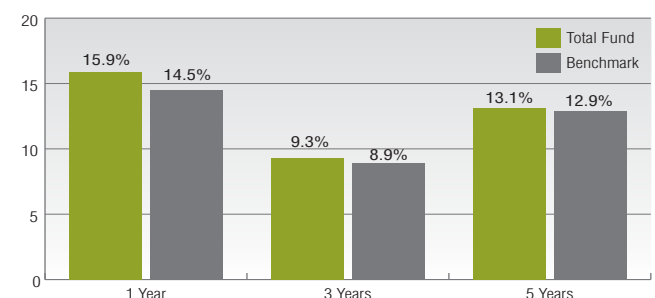
## Economic Factors

In terms of economic outlook, two factors primarily impact the system: (1) the employer/employee contributions; and (2) the return on investments. These factors directly impact the primary functions of the pension trust, which are to (a) appropriately award and pay benefits and (b) manage investments.

## Contacting the RRS's Financial Management

The financial report is designed to provide citizens, taxpayers, plan participants and the marketplace's credit analysis with an overview of the RRS's finances and the prudent exercise of the Board of Trustees' oversight. If you have any questions regarding this report or need additional financial information, please contact the Richmond Retirement System, 900 E. Broad Street, Suite 400, Richmond, Virginia 23219.

## Investment Performance (Net of Fees)



# Statement of Fiduciary Net Position

## Defined Benefit Pension Trust Fund

As of June 30

<b>Assets</b>	<b>2014</b>	<b>2013</b>
Cash and Short-Term Investments (Note II)	<u>\$12,443,520</u>	<u>\$6,582,957</u>
<b>Receivables</b>		
Receivables for Security Transactions	2,272,890	4,301,465
Contributions from Participating Employers	1,848,643	1,641,783
Interest and Dividends	712,441	800,428
Other Receivables	16,198	98,576
<b>Total Receivables</b>	<u><b>4,850,171</b></u>	<u><b>6,842,252</b></u>
<b>Investments, at Fair Value (Note II)</b>		
Common Stock	168,963,956	151,606,377
International Stock	96,150,418	78,959,420
Hedge Funds	65,303,836	60,380,900
Corporate Bonds and Notes	62,546,230	57,782,535
International Bonds and Notes	47,364,825	44,877,240
Private Real Estate	23,909,232	20,680,551
Mutual Funds	19,960,287	19,074,002
Private Debt	19,073,916	17,053,639
US Government and Agency Obligations	16,454,690	16,207,814
Private Equity	13,639,003	10,133,275
REITs	6,963,363	13,134,186
Emerging Market Debt	6,199,789	5,730,007
<b>Total Investments</b>	<u><b>546,529,544</b></u>	<u><b>495,619,947</b></u>
Cash Collateral Received Under Securities Lending Program	32,384,739	31,327,218
<b>Total Assets</b>	<u><b>596,207,976</b></u>	<u><b>540,372,373</b></u>
<b>Liabilities</b>		
DROP Payable	10,098,596	8,649,120
Payable for Security Transactions	6,604,133	5,689,447
Accounts Payable and Accrued Expenses	1,403,805	1,200,011
Investment Expenses Payable	558,000	527,000
Retirement and Death Benefits Payable	254,402	360,795
<b>Total Accounts Payable</b>	<u><b>18,918,937</b></u>	<u><b>16,426,374</b></u>
Payable for Collateral Received Under Securities Lending Program	32,384,739	31,327,218
<b>Total Liabilities</b>	<u><b>51,303,676</b></u>	<u><b>47,753,592</b></u>
<b>Net Position Held in Trust for Benefits</b>	<u><b>\$544,904,299</b></u>	<u><b>\$492,618,782</b></u>

*The accompanying Notes to Financial Statements, which begin on page 26, are an integral part of this statement.*



# Statement of Changes in Fiduciary Net Position

## Defined Benefit Pension Trust Fund

As of June 30

<b>Additions</b>	<b>2014</b>	<b>2013</b>
City of Richmond (Note V)	\$41,131,188	\$39,394,317
Richmond Behavioral Health Authority	1,113,946	1,102,228
Richmond Public Schools*	49,792	(94,242)
Revenue for DC Plan Expenses	47,695	43,906
<b>Total Employer Contributions</b>	<b>42,342,620</b>	<b>40,446,209</b>
<b>Total Member Contributions</b>	<b>2,118,493</b>	<b>2,093,104</b>
<b>Total Contributions</b>	<b>44,461,114</b>	<b>42,539,313</b>
<b>Investment Income</b>		
Net Appreciation in Fair Value of Investments (Note II)	71,592,775	49,398,109
Dividends	4,773,694	4,384,933
Interest	2,411,010	2,608,334
<b>Total Investment Income before Investment Expense</b>	<b>78,777,479</b>	<b>56,391,376</b>
Investment Expenses	(2,379,575)	(2,278,428)
<b>Net Investment Income</b>	<b>76,397,904</b>	<b>54,112,947</b>
<b>Security Lending Income</b>		
Gross Income	111,104	205,579
Less Borrower Rebates and Agent Fees	(45,722)	(99,556)
<b>Net Security Lending Income</b>	<b>65,382</b>	<b>106,023</b>
<b>Total Net Investment Gain</b>	<b>76,463,286</b>	<b>54,218,970</b>
<b>Total Additions</b>	<b>120,924,399</b>	<b>96,758,283</b>
<b>Deductions</b>		
Retirement Benefits	(67,274,187)	(64,673,091)
Refunds of Member Contributions	(46,678)	(101,579)
Administrative Expenses	(1,318,016)	(1,125,363)
<b>Total Deductions</b>	<b>(68,638,882)</b>	<b>(65,900,033)</b>
<b>Net Increase</b>	<b>52,285,518</b>	<b>30,858,250</b>
<b>Net Position Held in Trust for Benefits</b>		
Beginning of Year	492,618,782	461,760,532
<b>End of Year</b>	<b>\$544,904,299</b>	<b>\$492,618,782</b>

\* Richmond Public Schools received a refund in FY13 as a result of an overpayment of employer contributions.

The accompanying Notes to Financial Statements, which begin on the following page, are an integral part of this statement.

# Notes to Financial Statements

## I. Summary of Significant Financial Policies

### (A) Financial Reporting Entity

The RRS is a component unit of the City of Richmond, Virginia. The RRS's operations are accounted for as a blended component unit in the city's financial reporting entity because it provides services for the benefit of the city's employees. Its operations are included in the City of Richmond's basic financial statements as a fiduciary pension trust fund.

### (B) Administration and Management

The RRS is governed by the Board of Trustees, which administers the retirement program according to the requirements of the Code of the City of Richmond, and other governing law. The Board is responsible for the general administration and operation of the Defined Benefit Plan. The Board has full power to invest and reinvest the trust funds of the RRS through the adoption of the investment policies and guidelines that fulfill the Board's investment objectives to maximize long-term investment returns while targeting an acceptable level of risk.

The Board of Trustees consists of seven members; City Council appoints five members and the Mayor appoints two members. The Board appoints an Executive Director

to administer and transact the RRS's business. The Board also retains outside investment managers and consultants to advise and assist in the implementation of these policies, and State Street Corporation is the custodian of designated assets of the RRS.

The provisions of Chapter 78 of the Code of the City of Richmond govern the actual operations of the RRS.

The Board of Trustees has oversight and limited administrative responsibility, but no investment responsibility, for the Defined Contribution 401 (a) Plan established for employees of participating employers who were hired or rehired on or after July 1, 2006. Because the Board neither owns nor has custody of the assets, their financial transactions are not recorded in the RRS's accounting system. Therefore, these programs are not included in the RRS's basic financial statements. Additional information about the Defined Contribution 401(a) Plan is provided in the statistical section of this report.

### (C) Accounting Basis

The basic financial statements are presented in accordance with U.S. Generally Accepted Accounting Principles (GAAP) using the accrual basis of accounting and the economic resources measurement focus.

Under the accrual basis, revenues are recognized when

## Investment Standard of Care

As stated in Section 78-82(d) of the City of Richmond Code, "...the Board shall discharge their duties with respect to the System solely in the interest of the members and beneficiaries of the System and shall invest the assets of the System with the care, skill, prudence, and diligence under the circumstances then prevailing that a prudent person acting in a like capacity and familiar with such matters would use in the conduct of an enterprise of a like character and like aims."

Accordingly, the Board must diversify the portfolio to minimize the risk of large losses unless, under the circumstances, it is clearly prudent not to do so. Primary risk measures are volatility in the plan's assets, funded status, and contribution rates.

earned and expenses are recognized when liabilities are incurred, regardless of the timing of related cash flows. Member and employer contributions are recognized as revenue, when due, in the period in which employees' services are performed pursuant to the City of Richmond Code.

Investment income is recognized when earned by the plan. Benefits and refunds are recognized when due and payable in accordance with the City Code.

#### (D) Actuarial Basis and Contribution Rates

The funding policy for the pension plan provides for periodic employer contributions at actuarially determined rates as a percentage of payroll and will accumulate sufficient assets to meet the cost of all benefits when due. Member and employer contributions are required by Sections 78-111 – 78-113 of the Code.

The July 1, 2013 valuation developed contribution rates for the fiscal year ending June 30, 2015, using the Projected Unit Credit Method. However, due to the GASB 67 implementation, the RRS will utilize the Entry Age Actuarial Cost Method to develop contribution rates for the fiscal year ending June 30, 2016. This method is also used in the RRS' FY 14 annual valuation for purposes of determining funded status. The unfunded actuarial liability, and any changes in unfunded actuarial liability due to changes in benefit provisions, actuarial gains and losses and changes in methods and assumptions, is amortized over a period not more than 30 years, with contributions increasing 4% per year for Police and Fire employees and level contributions for General Employees.

Actuarial valuations estimate the value of reported amounts and assumptions about the probability of occurrence of events in the future. The actuarial assumptions include mortality, turnover, and the use of benefits. Actuarially determined amounts are subject to revision as actual results are compared with past expectations and new estimates are made about the future. The required supplemental schedules of funding progress and employer contributions, which follow these notes, present historical information about the increase or decrease of the actuarial values of the plan's assets over time relative to the actuarial accrued liability.

#### (E) Administrative Expenses and Budget

The Board of Trustees approves expenses related to the administration and management of the RRS. These expenses are included in a budget prepared using the full accrual basis of accounting. Expenses for goods and services received but not paid for prior to the RRS's fiscal year end are accrued for financial reporting purposes in accordance with GAAP. Administrative expenses for the fiscal year ended June 30, 2014, are presented in the Schedule of Administrative Expenses in the Supporting Schedules Section following the Required Supplementary Information.

#### (F) Governmental Accounting Standard Board (GASB) Statements

GASB Statement No. 28, Accounting and Financial Reporting for Securities Lending Transactions, establishes accounting and financial reporting standards for securities lending transactions. In these transactions, governmental entities transfer their securities to broker-dealers and other entities for collateral which may be cash, securities, or letters of credit and simultaneously agree to return the collateral for the same securities in the future. This statement requires governmental entities to report securities lent (the underlying securities) as assets in their balance sheets. Cash received as collateral on securities lending transactions and investments made with that cash should be reported as assets. Additional information about the securities lending program is presented in Section H and in Note II.

GASB Statement No. 40, Deposits and Investment Risk Disclosures, requires disclosures related to credit risk, concentration of credit risk, interest rate risk, custodial credit risk and foreign currency risk. The statement also requires disclosure of custodial credit risk and foreign currency risk for depository accounts. Information about the RRS's deposit and investment risk is provided in Note II.

GASB Statement No. 63, Financial Reporting of Deferred Outflows of Resources, Deferred Inflows of Resources and Net Position. The statement requires including information about the assets, deferred outflows of resources, liabilities, deferred inflow of resources, and net position in the statement of financial position and related dis-

closures. Based on the Statement 63, deferred outflow of resources is a consumption of net assets by the government that is applicable to the future reporting periods, deferred inflow of resources is an acquisition of net assets by the government that is applicable to a future reporting periods. As of year ending June 30, 2014, the RRS did not have deferred inflows and deferred outflows of resources. Assets, liabilities, and net position are disclosed in the financial statements on pages 24 and 25.

GASB Statement 65, Items Previously Reported as Assets and Liabilities. This Statement establishes accounting and financial reporting standards that reclassify, as deferred outflows of resources or deferred inflows of resources, certain items that were previously reported as assets and liabilities and recognizes, as outflows of resources or inflows of resources, certain items that were previously reported as assets and liabilities. As of year ending June 30, 2014, the RRS did not have items included in the financial statements that are classified as deferred inflows and deferred outflows of resources. Assets, liabilities, and net position are disclosed in the financial statements on pages 24 and 25.

The RRS adopted new accounting guidance, GASB Statement No. 67, Financial Reporting for Pension Plans — an amendment of GASB Statement No. 25 and No. 50, with the June 30, 2014 reporting period. The statement requires changing the presentation of the financial statements, notes to the financial statements, and required supplementary information. Significant changes include an actuarial calculation of total and net pension liability. It also includes comprehensive footnote disclosure regarding the pension liability, the sensitivity of the net pension liability to the discount rate, and increased investment activity disclosures. The total pension liability, determined in accordance with GASB No. 67, is presented in Note 5 and in the Required Supplementary Information on page 42-44.

### (G) Investments

The investments of the RRS are reported at fair value as determined by the RRS's custodian, State Street Corporation. The fair value is based on either quotations obtained from national security exchanges or on the basis of quo-

tations provided by a pricing service, which uses information with respect to transactions on bonds, quotations from bond dealers, market transactions in comparable securities and various relationships between securities.

The RRS has modified the investment categories for commingled funds from those provided by the custodian to accurately present the underlying investments.

Security transactions and related gains and losses are recorded on a trade date basis. The cost of investments sold is the average cost of the aggregate holding of the specific investment sold. Dividend income is recorded on the ex-dividend date and interest income is accrued as earned.

Futures contracts are valued daily, with the resulting adjustment recorded as realized gains or losses arising from the daily settlement of the variation margin. Gains and losses related to forward contracts and options are recognized at the time the contracts are settled. Investments in limited partnerships are accounted for on the equity method of accounting, and their earnings or losses for the period are included in investment income using the equity method.

### (H) Securities Lending Program

The RRS lends securities to firms on a temporary basis through its custodian bank, State Street Corporation (Custodian). During the fiscal year, the Custodian loaned its securities at the direction of the RRS and received cash, U.S. government securities, and irrevocable bank letters of credit as collateral. The Custodian did not have the ability to pledge or sell collateral securities delivered absent a borrower's default.

Borrowers were required to deliver collateral for each loan in amounts equal to not less than 100% of the market value of the loaned securities. The RRS did not impose any restrictions during the fiscal year on the amount of the loans that the Custodian made on its behalf, and the Custodian indemnified the RRS by agreeing to purchase replacement securities, or return the cash collateral, in the event the borrower failed to return the loaned security. There were no such failures by any borrowers during the fiscal year, nor were there any losses during the fiscal year resulting from a default of a borrower or the Custodian.

The RRS and the borrowers maintain the right to terminate all securities lending transactions on demand. The cash collateral received on each loan was invested, together with the cash collateral of other qualified tax-exempt plan lenders, in a collective investment pool.

The average duration of the short-term investments in the duration pool which includes securities with a remaining maturity of 91 days or greater for the year ended June 30, 2014 was 1,770 days with weighted average maturity of 42 days. The average duration of the short-term investments in the liquidity pool which primarily includes securities with a remaining maturity of 90 days or less for the year ended June 30, 2014 was 104 days with weighted average maturity of 37 days. As the loans are terminable at will, the duration of the investments generally did not match the duration of the investments made with the cash collateral.

As of June 30, 2014, the market value of the securities on loan was \$31,774,027. This balance is composed of U.S. government and agency securities of \$2,262,426, common stock of \$24,700,923, and corporate bonds of \$4,810,678. Securities on loan are included with investments on the Statement of Fiduciary Net Position and the invested cash collateral is included as an asset and corresponding liability. At June 30, 2014, the invested cash collateral had a market value of \$32,384,739 and was composed of U.S. government and agency securities of \$2,305,279, common stock of \$25,177,415 and corporate bonds of \$4,902,045.

The RRS cannot sell or pledge the collateral received absent a borrower default. At June 30, 2014, the RRS had no credit risk exposure to borrowers because the amounts it owes the borrowers exceeds the amounts the borrowers owe it.

## II. Deposits and Investments

### (A) Deposits

On June 30, 2014, the carrying amount of the RRS's deposits with financial institutions was \$402,393 and the bank balance was \$1,403,803. All funds deposited in banks are protected under the provisions of the Virginia Securities for Public Deposit Act (the Act). The Act

requires financial institutions holding public deposits in excess of amounts insured by the Federal Deposit Insurance Corporation to pledge collateral in the amount of 50% of excess deposits, and savings and loans to pledge collateral in the amount of 100% of excess deposits to a collateral pool in the name of the State Treasury Board. The State Treasury Board can assess additional collateral from participating financial institutions to cover collateral shortfalls in the event of default, and is responsible for (1) monitoring compliance with the collateralization, (2) reporting requirements of the Act, and (3) notifying local governments of compliance by financial institutions.

### Fair Value of Investments

Common Stock	\$168,963,956
International Stock	96,150,418
Hedge Funds	65,303,836
Corporate Bonds and Notes	62,546,230
International Bonds and Notes	47,364,825
Private Real Estate	23,909,232
Mutual Funds	19,960,287
Private Debt	19,073,916
US Government and Agency Obligations	16,454,690
Private Equity	13,639,003
REITs	6,963,363
Emerging Market Debt	6,199,789
<b>Total Long-Term Investments</b>	<b>546,529,544</b>
Collateral Held for Securities on Loan	32,384,739
<b>Total Investments</b>	<b>\$578,914,284</b>

#### Rate of Return

For the year ended June 30, 2014, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was 15.5%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested. For additional information, please see page 44.

## Net Change in Position of Fair Value of Investments

Year Ended June 30, 2014	Change
Common Stock	\$17,357,578
International Stock	17,190,998
Hedge Funds	4,922,935
Corporate Bonds and Notes	4,763,695
International Bonds and Notes	2,487,585
Private Real Estate	3,228,681
Mutual Funds	886,285
Private Debt	2,020,277
US Government and Agency Obligations	246,876
Private Equity	3,505,728
REITs	(6,170,823)
Emerging Market Debt	469,782
<b>Net Change</b>	<b>\$50,909,598</b>

### (B) Investments

#### 1. Authorized Investments

The RRS invests in obligations of the U.S. government or its agencies, approved money market funds, other banks and savings and loan associations not exceeding federal insurance coverage, and commercial paper rated A-1 by Standard & Poor's or P-1 by Moody's.

The RRS is also authorized to invest in fixed income securities; domestic and international equities; private debt; Real Estate Investment Trusts (REITs); private equity; private real estate and hedge fund-of-funds. Decisions as to individual equity security selection, security size and quality, number of industries and holdings, current income levels, turnover, and other tools employed by active managers are left to the managers' discretion, subject to the standards of fiduciary prudence, as set out in the respective manager's Investment Management Agreement.

The RRS has twelve types of investments: common stock, international stock, corporate bonds and notes, international bonds and notes, hedge funds, mutual funds, U.S. government and agency obligations, private real estate, private debt, REITs, private equity, and emerging market debt.

The RRS extends investment commitments in the normal course of business. At June 30, 2014, unfunded commitments amounted to \$28.6 million.

#### 2. Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligation to the RRS. As of June 30, 2014, the RRS's fixed income assets that are not government guaranteed represent 89% of the domestic fixed income assets.

The RRS has an investment policy for credit risk. The domestic fixed income investments should emphasize high-quality and reasonable diversification. The investment managers are responsible for making an independent analysis of the credit worthiness of securities and their suitability as investments regardless of the classifications provided by rating agencies.

The RRS's fixed income portfolio credit quality and exposure levels as of June 30, 2014 are summarized in the Credit Quality and Exposure Levels of Nongovernment Guaranteed Securities table on the next page.

#### Concentration of Credit Risk

This is the risk of loss that may be attributed to the magnitude of a government's investment in a single issue. There is no concentration of investments in any one organization that represents 5% or more of plan net position available for benefits.

#### Custodial Credit Risk

This is the risk that in the event of the failure of the counterparty, the RRS will not be able to recover the value of its investment or collateral securities that are in the possession of an outside party.

The RRS does not have exposure to custodial credit risk because the cash collateral received in each loan was invested together with the cash collateral of other qualified tax-exempt plan lenders in a collective investment pool.

At June 30, 2014, the market values of securities on loan and cash collateral, which are included in the amounts on page 29, were as follows:

	Securities on Loan	Cash Collateral
U.S. Government and agency obligations	\$2,262,426	\$2,305,279
U.S. Stocks	24,700,923	25,177,415
U.S. Bonds	4,810,678	4,902,045
<b>Total</b>	<b>\$31,774,027</b>	<b>\$32,384,739</b>

### 3. Foreign Currency Risk

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment. The RRS's currency risk exposures, or exchange rate risk, primarily exist in the international and global equity investment holdings. From time to time, the RRS's external managers may hedge their portfolios' foreign currency exposures with currency forward contracts, depending on their views about a specific foreign currency relative to the U.S. dollar.

The RRS has an Investment Policy for international investments which is presented on pages 52-55. At June 30, 2014, the RRS has no foreign currency risk exposure because it did not have any foreign currency holdings in its portfolio.

### 4. Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. The RRS does not have a specific investment policy governing interest rate risk. The Effective Duration of Debt Securities by Investment Type table on the next page shows the RRS's interest rate exposure as of June 30, 2014.

#### Effective Duration of Debt Securities by Investment Type *As of June 30, 2014*

Investment Type	Market Value	Weighted Average Effective Duration (Years)
Corporate	\$37,208,862	7.16
US Treasury	9,440,313	5.98
Mortgage Pass-Through <sup>1</sup>	6,151,922	3.34
Asset Backed	2,923,793	3.08
CMO	2,698,688	5.23
CMBS	1,447,536	1.69
Agency	862,456	0.83
Yankee	717,989	6.59
Preferred Stock	186,309	1.85
Convertible	112,595	14.96
SWAPS	(327,462)	4.51
<b>Total Fixed Income</b>	<b>\$61,423,001</b>	<b>5.02</b>

<sup>1</sup> All mortgage pass-through securities held by the RRS as of June 30, 2014 were issued by U.S. Government Agencies.

### Credit Quality and Exposure Levels of Nongovernment Guaranteed Securities

*As of June 30, 2014*

Investment Type	Credit Rating Level	Fair Value
<b>U.S. Government Agencies</b>		
FNMA	AAA	\$536,848
	NR	4,333,537
FHLMC	AAA	325,608
	NR	877,224
		<u>6,073,217</u>
<b>Corporate Bonds and Notes</b>		
	AAA	2,598,104
	AA1 - AA3	667,624
	A1 - A3	4,505,269
	BAA1 - BAA3	11,814,006
	BA1 - BA3	6,562,458
	B1 - B3	8,553,570
	Below B3	1,841,718
	NR	24,891,919
	WR	1,111,563
		<u>62,546,230</u>
<b>Foreign Bonds and Notes</b>		
	A1 - A3	1,089,300
	BAA1 - BAA3	2,413,768
	BA1 - BA3	995,694
	B1 - B3	128,290
	Below B3	22,550
	NR	42,715,223
		<u>47,364,825</u>
<b>REITs</b>		
	NA	4,106,139
	NR	2,857,225
		<u>6,963,364</u>
<b>Hedge Funds</b>		
	NR	65,303,835
<b>Total</b>		<b><u>\$188,251,471</u></b>

*The RRS used Moody's ratings for this presentation. A large portion of the securities are not rated by Moody's but are rated by other agencies.*

### III. Litigation

The RRS, including its Board of Trustees, officers and employees, is not involved in any ongoing claims or lawsuits that would have an adverse effect on the RRS's financial conditions.

## IV. Plan Description

The RRS was established by action of the Richmond City Council on February 1, 1945. The City Council appoints five members and the Mayor appoints two members of the Board of Trustees to administer the RRS. However, City Council retains the authority to establish or amend benefit provisions. The RRS is not subject to the provisions of the Employee Retirement Income Security Act of 1974.

The RRS is of the cost sharing multiple-employer Defined Benefit variety. The RRS has two participating employers — the City of Richmond and the Richmond Behavioral Health Authority — covering all full-time, permanent employees, with the exception of those elected officials and persons eligible for membership in the Judicial Retirement System and the Virginia Retirement System. A majority of the employees of the School Board participate in the Virginia Retirement System (VRS), which offers both agent and cost sharing multiple-employer retirement plan options to Virginia localities and acts as a common investment and administrative agent for certain political subdivisions in the Commonwealth of Virginia. Members are vested after five years of creditable service or at their normal retirement age (age 65 for general employees; age 60 for public safety employees). The plan is contributory for employees.

### Defined Contribution Plan

The City also offers a Defined Contribution 401(a) Plan as another retirement option. This plan is mandatory for general employees hired on/or after July 1, 2006, and optional for senior executives and public safety officers. The RRS is the administrator for this Plan and has contracted with an independent, not-for-profit financial services organization to be the record-keeper of the Plan. The City contributes a percentage of an employee's creditable compensation, based on years of service, to a portable account for investment by the employee. This plan is non-contributory for employees.

Vested members in the Defined Contribution 401(a) Plan who terminate employment are entitled to the account balance. The account balance of non-vested members who terminate employment is forfeited unless a member is reemployed with a participating employer before

a five year lapse and remains in service until vesting. Members of the Defined Contribution 401(a) Plan are eligible for disability retirement benefits under the RRS.

Current membership in the RRS at June 30, 2014 is as follows:

<b>RRS Membership</b>	<i>As of June 30, 2014</i>
Retirees and Beneficiaries Currently Receiving Benefits	4,312
Active DB Plan Members	2,065
Terminated Vested DB Plan Members	1,662
Active DC 401(a) Plan Members	<u>1,865</u>
<b>Total</b>	<b><u>9,904</u></b>

### A) Summary of Benefit and Contribution Provisions

Outlined on the following pages are the principal features of the System reflected in the 2014 valuation.

#### 1. Definitions:

#### Average Final Compensation

The average annual creditable compensation of a member during the member's 36 consecutive months of creditable service in which such compensation was at its greatest amount or during the entire period of the member's creditable service, if less than three years.

#### Creditable Compensation

The base compensation payable to an eligible employee working in a full-time position, plus shift differentials, bonuses, severance pay and educational incentive pay but excluding overtime pay, imputed income under Section 79 of the Internal Revenue Service Code, and lump-sum payments for unused sick or vacation leave.

#### Creditable Service

Total service as an employee, whether or not continuous, but excluding any separate periods of service less than nine months in duration and any periods of leave without pay unless otherwise required by law. Effective July 1, 1999, 50% of unused sick leave counts as creditable service at retirement for current employees. Vested members who terminated City employment between July 1, 1998 and June 30, 1999 received 25% of unused sick leave as creditable service.



## Normal Retirement Date

The first day of the month following the sixtieth (60th) birthday of a sworn public safety employee or the sixty-fifth (65th) birthday of a general employee.

## 2. Retirement Plan Options:

### a) Defined Benefit

The Defined Benefit Plan pays a monthly benefit at retirement based on the member's years of creditable service and average final compensation. General and public safety employees are required to pay contributions of 1% and 1.5% respectively, of their creditable compensation.

The Defined Benefit Plan formula has a multiplier of 1.75% for general employees and 1.65% for public safety employees. In addition, the formula includes a pre-65 supplement of 0.75%, up to a maximum of twenty-five (25) years for public safety employees.

The benefit level is set by formula, regardless of the retirement fund's investment performance. Participating employers contribute an amount each year that varies according to the contribution rate as determined by the RRS's actuary. The participating employers' contributions are invested by outside investment firms with the primary objective of ensuring the security, stability and continued growth of assets for members' future benefits. The Code of the City of Richmond requires that the Plan be maintained on an actuarially sound basis.

The Defined Benefit Plan is closed to general employees hired on/or after July 1, 2006. The plan is optional for senior executives and public safety officers.

### b) Enhanced Defined Benefit

The Enhanced Defined Benefit Plan option pays a monthly benefit at retirement based on the member's years of creditable service and average final compensation.

General employees are required to make contributions of 4.57% of their creditable compensation, and public safety employees are required to make contributions of 5.45% of their creditable compensation, until they terminate employment or retire in order to receive the benefits of the enhanced option.

For general members, the enhanced option formula has a multiplier of 2%.

For public safety employees, the enhanced option allows eligibility for an unreduced early service retirement upon the completion of twenty (20) years of creditable service, regardless of age.

The benefit level for the enhanced option is set by formula, regardless of the fund's investment performance. Participating employers contribute an amount each year that varies according to calculations by the actuary. The participating employers' contributions are invested by outside investment firms with the primary objective of ensuring the security, stability, and continued growth of assets for members' future benefits. The Code of the City of Richmond requires that the Plan be maintained on an actuarially sound basis.

The Enhanced Defined Benefit Plan is closed to general employees hired on/or after July 1, 2006. The plan is optional for senior executives and public safety officers.

### c) Defined Contribution Plan

The Defined Contribution Plan is a 401(a) account which grows through contributions from the participating employers and investment earnings. The Defined Contribution Plan is funded entirely by employer contributions, and no employee contributions are required. Participating employers contribute a percentage of the member's salary to an account each pay period in accordance with the following schedule, which is based on years of creditable service:

- Less than 5 years of service — 5%
- 5-10 years of service — 6%
- 10-15 years of service — 8%
- 15 or more years of service — 10%

Once a vested member (5 years of creditable service) terminates employment, the benefit is a lump sum amount equal to the account balance. It may also be payable in installment payments, rolled over to another qualified investment plan, or used to purchase a lifetime annuity.

The RRS is the Administrator of the Defined Contribution Plan. ICMA-RC is the Record Keeper of the Defined Contribution Plan.

The Defined Contribution Plan is mandatory for general

employees hired on/or after July 1, 2006. The plan is optional for senior executives and public safety officers.

### 3. Deferred Retirement Option Program (DROP):

Effective October 1, 2003, the DROP was implemented for public safety employees eligible for an unreduced retirement allowance. Eligible members may elect to participate for a maximum of five years, deferring receipt of unreduced retirement benefits while continuing employment with the City without loss of any other employee benefits.

Upon a member's election to participate in the DROP, the amount of creditable service and the average final compensation becomes frozen for purposes of determining pension benefits. The participant is considered retired for all purposes related to the System and does not accrue additional retirement benefits, except for annual benefit cost-of-living adjustments, if applicable.

The DROP participant's monthly pension is paid into a DROP account in lieu of being paid to the participant. Upon termination of employment, the participant will receive the DROP account balance and will begin receiving the monthly pension directly. The DROP account is not credited with investment gains and losses.

For the fiscal year ended June 30, 2014 the DROP liability is \$10,098,596.

### 4. Assets of System:

All of the Defined Benefit Plan funds and assets of the RRS are credited to a single retirement account. This account is credited with all income from the assets of the RRS, and all of the RRS's benefits are paid from this account.

### 5. Retirement Eligibility:

A member is eligible for normal retirement upon attaining their normal retirement date (general employees, age 65; public safety employees, age 60). Early retirement is permitted at any time within the ten-year period prior to the normal retirement date, provided the member has completed five or more years of creditable service or at any age with 30 years of creditable service (general employees) or 25 years of creditable service (public safety employees participating in defined benefit plan) or 20

years of creditable service (public safety employees participating in the enhanced defined benefit plan option).

### 6. Retirement Allowance:

Upon retirement, a member becomes eligible to receive an annual allowance, payable in equal monthly installments. The annual allowance is computed as follows:

#### a) Normal Retirement Allowance:

General Employees: 1.75% (2% Enhanced option) of the member's average final compensation, multiplied by the number of years of creditable service up to 35 years.

Public Safety Employees: 1.65% of the member's average final compensation, multiplied by the number of years of creditable service up to 35 years. In addition, a supplement of .75% of the member's average final compensation, multiplied by the number of years of creditable service up to 25 years is payable from retirement until age 65.

#### b) Early Retirement Allowance:

If a member retires prior to their normal retirement age, the allowance is determined as described in letter a). For general employees, the benefit is reduced by 5/12 of 1% for each complete month by which retirement precedes the earlier of age 65 or the date on which the employee would have completed 30 years of service had the member remained employed. For public safety employees, the benefit is reduced by 5/12 of 1% for each complete month by which retirement precedes either age 60 or the date on which the employee would have completed 25 years of service had the member remained in service in the Defined Benefit Plan (or 20 years of service had the member remained in service in the Enhanced Defined Benefit Plan), whichever is earlier.

#### c) Workers' Compensation Offset:

In no instance may a member who receives both (a) a compensation award pursuant to the Virginia Workers' Compensation Act, and (b) a retirement allowance before the attainment of age 65 from the RRS, receive a benefit which would cause the sum of the Workers' Compensation award and retirement allowance to exceed the member's average final compensation at the time the member separated from active service. After

attainment of age 65, the member shall be entitled to the full retirement allowance.

If a member in receipt of a retirement allowance elects to receive a lump-sum settlement in lieu of periodic payments for disability under the Virginia Workers' Compensation Act, the member's service retirement allowance shall continue to be reduced in the same amount required by Section 78-206(5) for the number of months equivalent to the lump-sum award amount divided by the amount of the original Workers' Compensation award.

#### 7. Retirement Benefit Payment Options:

The member may elect, with the approval of the Board, one of the following options, in which case the amount payable is the actuarial equivalent of the Basic Benefit otherwise payable.

##### a) **Joint and Survivor Option:**

A reduced allowance is payable to the member during their lifetime; with the same amount or a designated fraction thereof continued after the member's death to a designated contingent beneficiary, if living.

##### b) **Pop-Up Joint and Survivor Option:**

A reduced allowance is payable to the member during their lifetime; with the same amount or a designated fraction thereof continued after the member's death to a designated contingent beneficiary, if living. If the designated contingent beneficiary predeceases the member, the allowance is increased to the amount that would have been payable in the absence of the election of an optional form of benefit.

##### c) **Smooth-Out Option:**

An increased retirement allowance is paid prior to age 65 and a decreased retirement allowance thereafter. The purpose of this option is to provide for a more nearly level total retirement income before and after age 65, taking into account the primary federal Social Security benefits.

##### d) **Level Option:**

A reduced allowance is paid prior to age 65 and an increased retirement allowance thereafter. The allowance remains level for the lifetime of the member. This

option is available to current public safety employees and to former vested general employees who terminated service prior to March 1, 1997.

#### 8. Disability Retirement Eligibility:

Any member in service who has 5 or more years of creditable service may retire, or may be retired by the member's appointing authority, at any time prior to the member's normal retirement date on account of permanent disability, provided that the medical examiners certify that the member has been completely incapacitated by reason of sickness or injury from performing the duties required by the participating employers, and provided further that if the disability is service connected (i.e., if it arises from a cause that would be compensable under the Virginia Workers' Compensation Act), the five-year service requirement does not apply. The service requirement is also waived for public safety employees if the disability arises from respiratory or heart disease or from hypertension, unless it is certified that such disability was not suffered in the line of duty.

#### 9. Disability Retirement Allowance:

##### a) **Non-Service Connected Disability:**

The annual allowance, payable monthly, is computed in the same way as a normal retirement allowance prior to the changes effective March 1, 1997, with the following modifications: "Disability Average Compensation" is used in place of Average Final Compensation. In essence, this is the annual rate of compensation in effect at the date of disability, graded into average final compensation for members who become disabled within three years of their normal retirement date. Creditable Service is replaced by "Disability Credited Service," which is the smaller of: i. The number of years of creditable service the member would have completed at age 60 if the member had remained in service until that time, or ii. The larger of: a. 20 years, or b. Twice the member's actual years of creditable service except that if the disability occurs after age 60, disability credited service is equal to the number of years of creditable service. A deduction for Social Security is made prior to age 65 if the member is entitled to total and permanent disability benefits under Social Security. The early service reduction factor of 5/12 of 1% per month early retire-

ment reduction is not imposed. The additional pre-age 65 allowance for public safety employees is not payable.

In no instance may a member who receives a compensation award pursuant to the Virginia Workers' Compensation Act and a non-service connected disability retirement allowance from the City receive a benefit which would cause the sum of the disability retirement allowance and Workers' Compensation award to exceed the member's average final compensation at the time the non service connected disability caused separation from active service.

#### **b) Service Connected Disability:**

The annual allowance payable monthly, is computed in the same way as a normal retirement allowance prior to the changes effective March 1, 1997, with the following modifications: The disability retirement allowance is computed as 2/3 of the member's disability average compensation. This allowance shall be reduced dollar for dollar by the amount of compensation, if any, awarded to the member under the Virginia Workers' Compensation Act for as long as such compensation is payable. If any member who retired on or after July 1, 1989, elects to receive a lump-sum settlement in lieu of periodic payments for disability under the Virginia Workers' Compensation Act, the member's retirement allowance shall continue to be reduced in the same amount and for the number of months equivalent to the lump-sum award divided by the amount of the original Workers' Compensation award. A deduction for Social Security is made prior to age 65 if the member is entitled to total and permanent disability benefits under Social Security. The early service reduction factor of 5/12 of 1% per month early retirement reduction is not imposed. The additional pre-age 65 allowance for public safety employees is not payable.

#### **10. Withdrawal of Benefits:**

If termination occurs after five years of service, a member is entitled to a retirement allowance commencing on the member's earliest retirement date or later, based on the years of creditable service and average final compensation as of the member's termination date. If benefit payments commence prior to the member's normal retirement date, benefits are reduced by 5/12 of 1% for

each complete month by which retirement precedes the normal retirement date.

#### **11. Death Benefits Before Retirement:**

If a member who became an employee of the participating employer on or before June 13, 1988 and has one or more years of creditable service dies before retirement, a death benefit is payable equal to \$16.67 multiplied by the number of months of creditable service of the member, subject to a maximum of \$1,000.

If a member who is eligible for an early or normal retirement dies prior to actual retirement and no benefit of the type described in the paragraph below is payable, the surviving spouse is entitled to receive an allowance for life equal to that amount which would have been paid if the full Joint and Survivor Option had been in effect at the time of the member's death. The additional allowance paid from retirement to age 65 to public safety employees is not included in this benefit.

If a member dies at any time before retirement from a cause that would be compensable under the Virginia Workers' Compensation Act, an allowance is payable to the surviving spouse or to the member's children under the age of 18 equal to that which would have been payable if the full Joint and Survivor Option had been in effect at the time of the member's death. The allowance is calculated by projecting creditable service to that which the member would have earned had they remained in service until age 65 with the same final average compensation in effect at the time of their death. The benefit is reduced by any compensation awarded under the Virginia Worker's Compensation Act.

#### **12. Death Benefits after Retirement:**

The beneficiary of a retired member with at least one year of creditable service will receive, at the member's death, a death benefit of \$16.67 multiplied by the number of months of creditable service of the member, subject to a maximum of \$1,000.

An allowance for life, as described in the preceding paragraphs, is also payable to the widow or widower of a member who retired for disability after attaining early retirement age but dies before reaching normal retirement age. In this case, the member's average final com-

pensation as of the disability retirement date is used, but it is assumed the member's service continued to the last day of the month in which the member died.

#### 13. Ad Hoc Cost-of-Living Allowances (COLA):

Retirement allowances are periodically supplemented to reflect increases in the Consumer Price Index. The amounts of future COLAs are determined by action of City Council. Any such COLAs are subject to the same conditions of payment as the regular allowances.

#### 14. City Council Benefits:

Effective July 1, 1991, any member of City Council serving 10 or more years on City Council shall be entitled to a retirement benefit under the RRS. The amount of the benefit is 50% of final compensation, payable at age 65. Early retirement is allowed at age 62, with benefits reduced 5% per year prior to the earlier of age 65 or the age that the City Council member would have had 15 years of creditable service. This provision was repealed for active members of City Council effective February 2, 1996.

#### 15. Benefits for City Officials and Department Heads:

Effective March 1, 1997, certain City of Richmond officials and department heads can make additional contributions to the RRS in order to receive two years of credit for each year of service in a covered position (up to a maximum of 15 additional years).

#### 16. Purchase of Prior Service:

Any Defined Benefit Plan member in service who has completed 5 or more years of creditable service may purchase credit for service for all or part of: (1) certified creditable service in the retirement system of another state or of a political subdivision, and (2) any period of full-time service rendered to a participating employer on a temporary, seasonal, provisional, Comprehensive Employment Training Act (CETA) or contractual basis, provided that such period has not been previously included in the creditable service. Service purchased under this section shall not be considered in determining eligibility for an unreduced early retirement, if the member's retirement is within 5 years of the date of purchase of service credit.

#### 17. Portability:

Effective April 1, 1999, the RRS entered into a reciprocal agreement with the Virginia Retirement System (VRS) that allows vested members to transfer the value of their retirement benefits between VRS and the RRS. Effective May 1, 2001 and August 30, 2007 the RRS also entered into reciprocal agreements with the Newport News Employee Retirement Fund (NNERF) and the Norfolk Employee Retirement System (NERS), respectively. System members must have a vested benefit with VRS, NNERF, or NERS. VRS, NNERF, and NERS members must have deferred vested benefits with their System. The election period is eighteen (18) months from the date of eligibility.

## V. Contributions Required and Contributions Made

For the fiscal year ended on or before June 30, 2015, employer contributions to the RRS are based on a percentage of the creditable compensation of the active members. This percentage is calculated annually by the RRS's actuary using the Projected Unit Credit method. Beginning with the fiscal year ended June 30, 2016, the Entry Age Actuarial Cost Method will be used in determining employer contribution rates. The annual contribution percentages include amortization of the unfunded actuarial liability.

The City Code requires that contributions to the RRS consist of a normal contribution plus an accrued liability contribution, which, combined, equal the annual required contribution. Employer contribution rates and amounts for the years ended June 30 of 2014, 2013, and 2012, are shown in the table on page 38.

Contributions totaling \$44,461,114, including \$2,118,493 in member contributions, were made from July 1, 2013 to June 30, 2014 in accordance with the actuarially determined contribution requirements stated above.

### Funding Policy

The Richmond City Code of 1993, as amended, requires the City to contribute to the RRS, annually, an amount as determined by the actuary, expressed as a percentage of payroll, equal to the sum of the "normal contribution" and the "actuarial liability contribution."

The actuarial liability contribution is determined as that amount necessary to amortize the unfunded actuarial liability and any increase or decrease in the unfunded actuarial liability in future years due to changes in actuarial assumptions, changes in RRS provisions, including the granting of COLA increases, or actuarial gains or losses over a closed period not to exceed 30 years, with payments increasing up to 4% per year.

The following is a schedule of employer contributions, exclusive of employee contributions, for fiscal years ended June 30, 2012 through 2014:

### For the Fiscal Year Ended June 30

(Dollars in Thousands)

Year	Annual Required Contribution	Percentage Contributed
2012	\$38,421	101.00%*
2013	40,446	100.00%
2014	42,343	100.00%

\*The City contributed an additional \$493,529 in excess of the required contribution amounts shown above for the fiscal year ended June 30, 2012.

### Net Pension Liability of the City

The components of the net pension liability of the City at June 30, 2014 were as follows (dollars in thousands):

Total pension liability	\$854,284
Plan fiduciary net position	(544,904)
City's net pension liability	<u>\$309,380</u>
Plan fiduciary net position as a percentage of the total pension liability	63.8%

### Actuarial Assumptions

The July 1, 2013 valuation developed contribution rates for the fiscal year ending June 30, 2015, using the Projected Unit Credit Method. However, due to the GASB 67 implementation, the RRS will phase out the Projected Unit Cost Method and will utilize the Entry Age Actuarial Cost Method to develop contribution rates for the fiscal year ending June 30, 2016. The actuarial method used to determine net pension liability for FY14 is the Entry Age Actuarial Cost Method.

The amortization method used for general employees is a level dollar method over a closed period not to exceed 30 years. The amortization method used for police and fire employees is a level percent of pay method over a closed period not to exceed 30 years.

For purposes of determining contribution rates, the difference between actual investment earnings and expected investment earnings is recognized over a five-year period, with the restriction that the actuarial asset value cannot be less than 90% or more than 110% of market value. This smoothing method is utilized in order to smooth the impact of short term market fluctuations on the RRS's contribution rates and funded status.

For the purposes of determining net pension liability fair value of investments was used.

Significant actuarial assumptions used in determining the actuarial liability include: (a) A 7.5% investment, rate of return was assumed, as was a 3.0% payroll growth rate attributable to inflation. No cost-of-living adjustment was assumed; (b) Projected salary increases were 3.0% to 4.0% for general employees and 3.0% to 4.5% for police and fire employees; (c) The assumption that benefits will not increase after retirement.

### Long-Term Expected Rate of Return

The long-term expected rate of return on RRS investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation as of June 30, 2014 are summarized in the following table:

Asset Class	30 Year 2014 NEPC Assumptions – Arithmetic Return	Target Allocation
Large Cap Equities	9.13%	18.0%
SMID Cap Equities	9.95%	5.0%
Developed Intl Equities	10.11%	8.0%
Emerging Intl Equities	12.39%	7.0%
Hedge Funds	7.38%	12.0%
Private Equity	12.85%	8.0%
Core Bonds	4.65%	10.5%
Core Plus Bonds	4.65%	0.0%
High Yields Bonds	6.78%	6.0%
Global Bonds	3.35%	4.0%
Inflation Linked Bonds	4.47%	4.0%
Emerging Market Debt (external)	7.66%	4.0%
Multi-Sector Fixed Income	5.52%	2.0%
Private Debt	9.86%	5.0%
Real Estate (core)	7.82%	5.0%
Cash	3.75%	1.5%

### Discount Rate

The discount rate used to measure the total pension liability was 7.5 percent. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that City contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

### Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of the City, calculated using the discount rate of 7.50 percent, as well as what the City's net pension liability would be if it were calculated using a discount rate that is 1-percent-

age-point lower (6.50 percent) or 1-percentage-point higher (8.50 percent) than the current rate (dollars in thousands):

	1% Decrease (6.50%)	Current Discount Rate (7.50%)	1% Increase (8.50%)
Employers' net pension liability	\$391,547	\$309,380	\$238,952

### System Termination

In the event the system is terminated, the net position of the RRS will be allocated generally to provide the following benefits in the order indicated: (a) For the benefit of the then existing beneficiaries and persons already designated by former members who are then beneficiaries under one of the options provided for in the RRS, to the extent of the actuarial value of their retirement allowances. If any funds remain, then: (b) For the benefit of members and persons, if any, designated by the members under one of the options provided for in the RRS, to the extent not provided under the preceding paragraph (a) of the actuarial value of their accrued retirement allowances, based on years of creditable service and average final compensation as of the date of termination of the pension plan. The allocation under this paragraph (b) shall be on the basis of the "oldest ages first" method.

The Richmond City Code of 1993, as amended, states: "In the event the assets at such date of repeal are insufficient to provide all the benefits of preceding paragraph (a), then the employer will contribute to the assets from time to time, as and when required, the amount necessary to make up such insufficiency."

The Code of Virginia of 1950, as amended, requires that "on or before July 1, 1977, every county, city, and every town, having a population of five thousand or more, shall provide a retirement system for those officers and employees eligible for coverage under Section 51-111.31(a) of the State Code." The City of Richmond is included in this provision.

Participants are not guaranteed any benefits by the Pension Benefit Guaranty Corporation because this is a public pension trust.

## Legislative Changes

Effective July 1, 2013, Richmond City Council amended the City Code and adopted an ordinance to effect a Voluntary Retirement Incentive Plan (VRIP) which provided a benefit enhancement to incentivize early retirement for eligible employees. The implementation of this program resulted in an \$8,705,940 increase in the pension plan's unfunded liability.

## Tax Status

The RRS has received a favorable determination letter from the Internal Revenue Service stating that it is qualified in form under the Internal Revenue Service Code.





*Construction in downtown Richmond*

# Required Supplementary Information

*Financial Section, continued*

**In this section:**

- Schedule of Changes in the Employers' Net Pension Liability and Related Ratios
- Schedule of Employers' Net Pension Liability and Related Ratios
- Schedule of Employers' Contributions
- Notes to the Schedules
- Schedule of Investment Returns

## Schedule of Changes in the Employers' Net Pension Liability and Related Ratios\*

<b>Total Pension Liability</b> (Dollars in Thousands)	<b>2014</b>
Service Cost	\$10,649
Interest	62,395
Changes of Benefit Terms	8,706
Differences Between Expected And Actual Experience	1,652
Changes of Assumptions	(26,785)
Benefit Payments, Including Refunds of Member Contributions	(67,321)
<b>Net Change in Total Pension Liability</b>	<b>(10,704)</b>
<b>Total Pension Liability — Beginning</b>	<b>864,988</b>
<b>Total Pension Liability — Ending (a)</b>	<b>\$854,284</b>
<b>Plan Fiduciary Net Position</b>	
Contributions — Employer	\$42,343
Contributions — Member	2,118
Net Investment Income	76,463
Benefit Payments, Including Refunds of Member Contributions	(67,321)
Administrative Expense	(1,318)
Other	-
<b>Net Change in Plan Fiduciary Net Position</b>	<b>\$52,285</b>
Plan Fiduciary Net Position — Beginning	492,619
Plan Fiduciary Net Position — Ending (b)	544,904
<b>Employers' Net Pension Liability — Ending (a) - (b)</b>	<b>\$309,380</b>
<b>Plan Fiduciary Net Position as a Percentage of the Total Pension Liability</b>	<b>63.8%</b>
<b>Covered-Employee Payroll</b>	<b>110,748</b>
<b>Employers' Net Pension Liability as a Percentage of Covered-Employee Payroll</b>	<b>279.4%</b>

\*See Notes to the Schedules on page 44.

## Schedule of Employers' Net Pension Liability and Related Ratios\*

(Dollars in Thousands)

	<b>2014</b>
Total Pension Liability	\$854,284
Plan Fiduciary Net Position	544,904
Employers' Net Pension Liability	<u><u>\$309,380</u></u>
<b>Plan Fiduciary Net Position as a Percentage of The Total Pension Liability</b>	<b>63.8%</b>
<b>Covered-Employee Payroll</b>	<b>\$110,748</b>
<b>Employers' Net Pension Liability as a Percentage of Covered-Employee Payroll</b>	<b>279.4%</b>

\*See Notes to the Schedules on the following page.

## Schedule of Employers' Contributions\*

	<b>2014</b>
Actuarially Determined Contribution	\$42,342,620
Contributions in Relation to the Actuarially Determined Contribution	42,342,620
<b>Contribution Deficiency (Excess)</b>	<u><u>—</u></u>
<b>Covered Employee Payroll</b>	<b>\$110,748,076</b>
<b>Contributions as a Percentage of Covered Employee Payroll</b>	<b>38.23%</b>

\*See Notes to the Schedules on the following page.

## Notes to the Schedules

### Valuation Date

Actuarially determined contribution rates are calculated as of July 1 two years prior to the end of the fiscal year in which contributions are reported.

### Methods and Assumptions Used to Determine Contribution Rates

	<b>2014</b>
Actuarial Cost Method	Entry Age Normal
Amortization Method	Level percent of pay over a closed period not to exceed 30 years for police and fire employees; level dollar amount over a closed period not to exceed 30 years for general members.
Remaining Amortization Period	20 years for remaining unfunded accrued liability as of July 1, 2006; 20 years for subsequent changes.
Asset Valuation Method	Five-year spread of actual over expected investment earnings with the restriction that the resulting value must be within 90%-110% of market value.
Inflation	3.00%
Salary Increases – General Employees	3.00% to 5.00%
Salary Increases – Police and Fire Employees	3.00% to 4.50%
Investment Rate of Return	7.50%
Retirement Age – General Employees	20% in 1st year of unreduced retirement eligibility; 3% at age 55 increasing to 100% at age 75
Retirement Age – Police and Fire Employees	40% in 1st year of unreduced retirement eligibility; 9% at age 50 increasing to 100% at age 64
Mortality – General Employees	RP-2000 Mortality Table with 2 year set-forward for Males
Mortality – Police and Fire Employees	RP-2000 Mortality Table

### Schedule of Investment Returns\*

	<b>2014</b>
Annual Money-Weighted Rate of Return, Net of Investment Expense	15.5%

*\*Annual money-weighted rate of return is calculated net of all investment management expenses and additional plan investment related expenses that are reported by the plan's custodian and/or were provided to NEPC by the client. The methodology used to determine the money weighted rate of return is different from the calculation of the fiscal year rate of return (which was 15.9% net of fees). Cash flows have a larger impact on the money-weighted rate of return than the fiscal year rate of return, which uses a time-weighted calculation.*



Virginia War Memorial

# Supporting Schedules

*Financial Section, continued*

## **In this section:**

- Schedule of Administrative Expenses
- Schedule of Investment Expenses
- Schedule of Payments to Investment Consultant
- Schedule of Retirement Benefit Payments

## Schedule of Administrative Expenses

Year Ended June 30, 2014

### Personnel Services

Payroll Expenses	<u>\$1,066,288</u>
<b>Total Personnel Services</b>	<b><u>1,066,288</u></b>

### Professional Services

Actuarial	75,072
Legal Services	37,656
Audit	28,000
Medical Examiners	<u>6,720</u>
<b>Total Professional Services</b>	<b><u>147,448</u></b>

### Communications

Printing & Publications	8,036
Telephone & Postage	<u>14,241</u>
<b>Total Communications</b>	<b><u>22,277</u></b>

### Miscellaneous

Stipends to Board Members	11,000
Supplies	10,000
Recruitment	21,522
Conferences	20,325
Other	<u>19,156</u>
<b>Total Miscellaneous</b>	<b><u>82,003</u></b>
<b>Total Administrative Expenses</b>	<b><u>\$1,318,016</u></b>



## Schedule of Investment Expenses

Year Ended June 30, 2014

### Investment Managers:

LSV Asset Management	\$220,439
Loomis, Sayles & Co. (High Yield)	158,483
Loomis, Sayles & Co. (Large Cap)	154,473
Stone Harbor Investment Partners	109,906
Chartwell Investment Partners (Small Cap)	102,416
Chartwell Investment Partners (Mid Cap)	95,706
CenterSquare Investment Management	55,448
Hughes Capital	13,450

### Commingled Funds:

Brandywine Global Investment Management, LLC	218,949
JP Morgan Asset Management	218,244
Westwood	190,745
Acadian Asset Management	176,125
Loomis, Sayles & Co. (Credit Opportunistic)	54,200
Axiom International Investors LLC	32,891
State Street Global Advisors	23,502
<b>Total Investment Managers Expenses*</b>	<b>\$1,824,977</b>

### Investment Custodian

State Street Corporation	\$260,492
<b>Total Custodial Expenses</b>	<b>\$260,492</b>

\*Mutual fund and limited partnership fees are not reflected in this schedule; instead, these investment expenses are netted against investment income in the statement of changes of Plan net position to arrive at a net investment income amount.

## Schedule of Payments to Investment Consultant

Year Ended June 30, 2014

### Investment Consultant:

New England Pension Consultants	\$294,105
<b>Total Consultant Expenses:</b>	<b>\$294,105</b>

During the fiscal year ended June 30, 2014, the RRS did not direct any soft dollar transactions.

## Schedule of Retirement Benefit Payments

Year Ended June 30, 2014

### Benefit Payments:

Regular Pension	\$56,301,932
Disability Pension	4,847,156
Survivor Pension	2,057,610
Death Benefits	105,754
Refund of Contributions	46,678
DROP Expense	3,961,735
<b>Total Benefits Payments</b>	<b>\$67,320,865</b>



Canal Walk

# Investment Section

*The Investment Section provides detailed information regarding the performance of the investment pool. This information includes asset allocation, investment management fees and expenses, and an investment summary.*

**In this section:**

- Investment Consultant Report
- Investment Policy
- Schedule of Investment Results
- Asset Allocation
- Ten Largest Equity and Fixed Income Holdings
- Schedule of Fees
- Schedule of Brokerage Commissions
- Investment Summary



# Investment Consultant Report



**KEVIN M. LEONARD**  
PARTNER

September 11, 2014

Board of Trustees  
**Richmond Retirement System**  
City Hall, Suite 400  
900 East Broad Street  
Richmond, VA 23219  
RE: Fiscal Year End 2014

Dear Trustees,

NEPC, LLC currently serves as the pension consultant for the Richmond Retirement System (RRS). In our role as the pension consultant, we assist the Board in several manners: determining and executing the overall asset allocation strategy of the Plan, drafting of the investment policy of the Plan (and amendment of when necessary), conducting investment manager searches (both traditional and alternative asset classes); conducting custodial services searches, providing ongoing performance evaluation to each individual investment manager, to each asset class composite, and for the overall investment portfolio as a whole, and providing pertinent education to the Board.

The overall objective of the RRS is to provide service, disability, death and vested retirement benefits, and other post-employment benefits to members and their beneficiaries. To ensure a solid foundation for the future of the System, RRS has implemented an investment program designed to achieve the actuarial assumed rate of return of the long term, while prudently managing the risk of the portfolio.

Although investment manager performance is key in the future “success” of the Plan, the overall asset allocation policy will be the primary determinant of such “success.” Modern portfolio theory maintains that long term investors, who assume prudent levels of risk, will be rewarded with incremental returns above lower-returning and risk-free assets (i.e. T-Bills). The pension fund, in its asset allocation policy, is required to satisfy the need to pay accumulated/earned retirement benefits today, while at the same time be prepared for “uncertain” future benefits. This balancing of short-term needs versus long-term needs is a key tenant in the overall construction of the portfolio known as the generation of income versus appreciation of assets. To facilitate this demand balance of short term versus long term, the Board has adopted a diversified asset allocation structure that is primarily weighted in equity-like asset classes, such as U.S. equities, non-U.S. equities, and alternative investments, which seek return with offsetting investments in fixed income-like asset classes which provide current income and/or stability. Diversification aims to reduce volatility and better equalize the contribution to an overall plan’s risk across a variety of asset classes with unrelated return patterns. Our goal is to

*continued on next page*

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diversify the System's assets within the traditional and non-traditional asset classes to reduce volatility, achieve above-market returns, and to better protect the portfolio against difficult market conditions.

The Board continues to work diligently on restructuring and expanding the alternative investment program, which will further assist in the diversification of the portfolio. Asset classes such as hedge funds are designed to lower the overall volatility of the program, while private equity is designed to provide higher long-term performance above what is expected from traditional equity markets. As the allocation strategy evolves year after year, diversification and risk mitigation will continue to be the pillars of the asset allocation structure.

In fiscal year 2013, the Investment Committee began implementing the asset allocation changes adopted/approved by the Board as a result of an asset liability study (ALS) and liquidity study that NEPC conducted during fiscal year 2012. These changes resulted in additional commitments to expand the alternative portfolio, which included private equity, private debt, and opportunistic investment strategies, while decreasing the target allocations to domestic equities, developed non-U.S. equities, and fixed income. During the year, the Board also approved the hiring of an additional emerging markets equity manager to compliment the existing portfolio.

NEPC provides RRS with quarterly economic and investment market updates and performance reviews, investment manager monitoring and selection advice, and related investment services for traditional and non-traditional asset classes. Investment performance analysis and comparisons produced by NEPC have been calculated using standard performance evaluation methodologies and are consistent with industry standards. Performance results are calculated using a time-weighted return methodology. The Board's goal of achieving market rates of returns, while mitigating unwarranted risk, is measured against appropriate benchmarks and comparative universes on a quarterly basis. Performance is measured on a most recent quarter, year-to-date, and accumulated trailing annual periods, as well as three- and five-year periods (full market cycle). Risk-adjusted performance on an absolute basis and a comparative basis is also measured. This review process allows the Board to evaluate and determine whether established goals and objective are being achieved.

### **RRS Fiscal Year Performance**

- For the fiscal year ending June 30, 2014, the RRS Total Fund returned 16.5% on a gross-of-fees basis (15.9% on a net-of-fees basis).
- For the trailing three-year period ending June 30, 2014, the RRS Total Fund returned 9.9% on a gross-of-fees basis (9.3% on a net-of-fees basis).
- For the trailing ten-year period ending June 30, 2014, the RRS Total Fund returned 8.0% on a gross-of-fees basis (7.6% on a net-of-fees basis).

Relative to peer group comparison of other Public Funds (InvestorForce Public Fund Universe):

- For the fiscal-year ending June 30, 2014 the gross return of 16.5% ranked the RRS in the 37th percentile (1% being the highest, 100% being the lowest), outpacing 63% of other public funds within the universe.

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- For the trailing three-year period ending June 30, 2014, the gross return of 9.9% ranked RRS in the 39th percentile (1% being the highest, 100% being the lowest), outpacing 61% of other public funds within the universe.
- For the trailing ten-year period ending June 30, 2014, the gross return of 8.0% ranked RRS in the 8th percentile (1% being the highest, 100% being the lowest), outpacing 92% of other public funds within the universe.

### **Fiscal Year 2014 Market Review**

If 2013 was the year to own U.S. equities, 2014, so far, has been the year to have balance. Global equities and fixed income assets are mostly in the black and their gains have come amidst startlingly low volatility. The fiscal year ending June 30, 2014 posted solid gains and investors showed resilience with headline risks related to the government shutdown, debt ceiling, a severe downward revision to U.S. GDP, the Fed quantitative easing program, and geopolitical tensions arising from Russia and the Middle East.

As the calendar year came to a close, the U.S. economy appeared to be picking up steam with rising growth and falling unemployment even as the Fed began to taper its monetary stimulus. Macro policy and politics affected global markets with fears of the U.S. hitting its debt ceiling and slowing growth in emerging markets. Investor sentiment turned positive when Janet Yellen emerged as the favored candidate to serve as the chair of the Federal Reserve. Following a strong 2013, growth assets in developed markets continued their upward trajectory, while emerging market stocks and bonds rallied in March. Markets mostly shrugged off the geopolitical tensions arising from Russia taking control of Crimea, and the sustained economic slowdown in emerging economies. In the final quarter of the fiscal year, all major asset classes moved higher, even overlooking a severe revision downward for the first quarter U.S. GDP growth to -1.0%, attributing the miss to poor weather. Emerging market assets continued their recovery with large inflows pouring into equity and debt during the quarter as investors dismissed balance of payment concerns.

The broad domestic equity market, as measured by the S&P 500 Index, posted its sixth consecutive quarterly gain, capping of the fiscal year with a +24.6% return. The domestic bond market, as measured by the Barclays Aggregate Bond Index, returned +4.4% in the fiscal year 2014. The global equity market, as measured by the MSCI All Country World Index, returned +21.8% for the fiscal year.

NEPC, LLC appreciates the opportunity to serve as your consultant. It is a pleasure to work with the RRS and we look forward to continuing our relationship for the benefit of the Board, staff, and most importantly, the members of the System.

Sincerely,

A handwritten signature in black ink, appearing to be 'S. M. L.', is written over a light blue horizontal line.

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# Investment Policy

## Introduction

The purpose of this Investment Policy Statement (IPS) is to assist the Board of Trustees in effectively supervising, monitoring and evaluating the investment of RRS Fund assets.

The intent of the Board is to ensure compliance by the investment managers with all legal, fiduciary, prudence, and due-diligence requirements that experienced investment professionals strive to achieve. The Board also intends that the Fund will comply with all applicable laws, rules, and regulations from various local, state, and federal entities that may have an impact on Fund assets.

## Statement of Goals and Objectives

Investments will be made for the sole interest of the participants and beneficiaries of the Fund. Accordingly, the assets of the Fund shall be invested in accordance with these objectives:

1. To ensure funds are available to meet current and future obligations of the plan when due.
2. To earn an investment return greater than the actuarial return assumption of 7.5%.
3. To assure the Fund's fiscal health and maintain the amortized unfunded liability of the Fund below twenty (20) years.

## Rate of Return Objective

### Time Horizon

The Board acknowledges that fluctuating rates of return characterize the securities markets, particularly during short-term time periods.

Recognizing that short-term fluctuations may cause variations in the total portfolio's performance, the Board requires each investment manager to develop long-term investment strategies consistent with the guidelines con-

tained in this IPS. A minimum of a five-year moving time period reflects the emphasis on the long term. However, this five-year moving average shall not be the sole determinant of any decision.

## Performance Objectives

The Board has determined that it is in the best interest of the Fund that performance objectives be established for the total portfolio and each investment manager. It is clearly understood that these objectives are to be viewed over the long term and have been established after full consideration of all factors set forth in this Investment Policy Statement. The Board acknowledges that investment styles come in and go out of favor depending on economic and capital-market conditions. Accordingly, the Board has established style group comparisons as shorter-term performance objectives to be applied over a minimum of rolling three-year time periods.

## Performance Measurement Guidelines

The Board acknowledges that the ongoing review of money managers is just as important as the due diligence during the selection process. Accordingly, the Board has deemed it appropriate to include "objective standards" as part of the information that may be required to make future decisions to terminate contractual relationships. The Board always has the right to terminate contractual relationships in accordance with its Investment Management Agreement.

## Asset-Allocation Guidelines

The overall capital structure targets and permissible ranges for eligible asset classes are detailed in the asset allocation schedule located in the Financial Section.

The Board establishes asset-allocation policies to reflect, and be consistent with, the investment objectives expressed in this IPS. These policies, developed after examining the historical relationships of risk and return among asset classes, are designed to provide the greatest probability

of meeting or exceeding the Fund's return objectives at the lowest possible risk.

The Board considered the risk, reward and volatility of securities markets in establishing the risk tolerance for the Fund. The Board also reviewed the long-term characteristics of various asset classes, focusing on balancing risk with expected return.

## Rebalancing of Asset-Allocation Guidelines

One essential component of a strategic asset-allocation policy is the development and use of rebalancing ranges for the target allocation.

The actual allocation will be rebalanced based upon "trigger point" rebalancing. If, on a quarterly basis, the upper or lower limit is breached the asset class will be reviewed and rebalanced back to the strategic allocation. On an annual basis, targets will be reviewed and asset classes rebalanced back to the long-term strategic target allocation weights. The Board will consider market conditions and transaction costs, as well as any other relevant factors when rebalancing.

## Investment Manager Guidelines

Full discretion, within the parameters of the guidelines described herein, is granted to the investment managers regarding the selection of securities, and the timing of transactions.

Compliance with all guidelines must be monitored by the investment managers on a regular basis (monthly or more frequently when market conditions warrant) and based on then current market values. Securities that, at purchase, would move the portfolio out of compliance with these guidelines, based on the investment manager's most recent valuation, may not be purchased.

In the event that a portfolio moves out of compliance with these guidelines (as identified in the investment manager's regular review of the portfolio), through market conditions or other changes outside the control of the manager, the manager must bring the portfolio composition back into compliance within 45 days or make a written request to the Board for a compliance waiver.

## General Guidelines

For managers not participating in an Alternative Investments or Real Estate program, the following guidelines are to be adhered to, unless prior approval from the Board has been granted:

- There shall be no use of options or commodities without the prior approval of the Board;
- Uncovered options or futures contracts may not be purchased;
- Uncovered short positions may not be purchased;
- Short selling is not permitted; and
- There shall be no use of financial leverage.

For all investment managers across all asset classes, trades must be done on a "best-execution" basis.

## Mutual/Commingled Funds

Mutual funds and other types of commingled investment vehicles provide, under some circumstances, lower costs and better diversification than can be obtained with a separately managed fund pursuing the same investment objectives. However, commingled investment funds cannot customize investment policies and guidelines to the specific needs of individual clients. The Board is willing to accept the policies of such funds in order to achieve the lower costs and diversification benefits of commingled funds. Therefore, commingled investment vehicles are exempt from the policies and restrictions specified herein if the Board determines that:

- The investment practices of the commingled fund are consistent with the spirit of this IPS, and are not significantly different in letter; and
- The benefits of using a commingled vehicle rather than a separate account are material.

## Derivatives Guidelines

This derivatives policy statement identifies and allows common derivative investments and strategies which are consistent with applicable law and the IPS and requires investment managers to petition for the inclusion of

additional derivative instruments and strategies. These guidelines also require investment managers to follow certain controls, documentation and risk management procedures. For managers not participating in an Alternative Investments or Real Estate program, the following derivative guidelines are to be adhered to, unless prior approval from the Board has been granted.

### Allowed Use of Derivatives:

- Hedging
- Creation of Market Exposures
- Management of Country and Asset Allocation Exposure

### Prohibited Uses of Derivatives:

Any use of derivatives not listed above is prohibited without written approval of the Board. By way of amplification, it is noted that the following uses of derivatives are prohibited unless permission is specifically granted:

- Leverage
- Unrelated Speculation

## Proxy Voting

Investment managers have responsibility for voting corporate proxies. The Board expects the Managers to comply with ERISA and Department of Labor guidelines with respect to the voting of proxies for issuers of securities in the Fund. The managers will advise the Board annually how such proxies have been voted.

## Investment Manager Reporting Requirements

Each investment manager is required to provide the Board and its Investment Consultant with periodic investment information as required by their respective Investment Management Agreement. Generally these are as follows:

Quarterly (due no later than the 21st calendar day following quarter end)

1. Time-weighted rates of return for the quarter, YTD, and since inception.

2. Performance commentary that attributes both good and bad elements of quarterly performance to the sources of return.
3. Strategy statement that describes the portfolio strategies currently in place and the manager's reasons for implementing them.

Monthly (due no later than the 8th business day following month end)

1. Asset listings that contain descriptions of all securities held in the portfolio.
2. Time-weighted rate of return for the month.

Event-Driven (due no later than the first business day following the event)

Organizational developments that address any changes to the manager's organization, investment philosophy, decision-making process, financial condition, ownership, or professional staff.

## Board and Investment Committee Meetings

Investment managers may be invited to make presentations at Board or Investment Committee meetings. The agenda for such meetings usually will consist of the following:

1. Review of investment manager's strategies and objectives, investment style, and compliance to guidelines that apply to management of portfolio.
2. Discussion of investment performance and risk — current quarter, YTD, and since inception, in relation to a mutually agreed upon market index. Discussion of investment strategies that have helped and hurt performance.
3. Discussion of recent and material developments at investment manager's organization Ownership, organizational structure, financial condition, outstanding litigation, investment philosophy and investment decision-making process, professional staff, and client-servicing program.

## Investment Consultant Reporting Requirements

The investment consultant is required to provide the Board with periodic investment information for portfolio monitoring purposes. Generally these are as follows:

Quarterly (due in advance of the Meeting)

1. A review of the current investment market environment.
2. The Fund's actual asset allocation relative to its target asset allocation.
3. The Fund's return relative to its policy portfolio return and other public pension funds.
4. The Fund's risk adjusted returns relative to the policy portfolio and other public pension funds.
5. Individual asset class performance relative to the benchmark.
6. Individual investment manager returns relative to their stated benchmark.
7. Any reportable events affecting any of the Fund's investment managers.

Event-Driven (due no later than the first business day following the event)

Organizational developments that address any changes to the consultant's organization or changes to the assigned consulting team.

## Review Procedures

In the event an investment manager believes at any time that changes, additions, or deletions to this Investment Policy Statement are advisable, they will communicate such recommendations to the Board in writing.

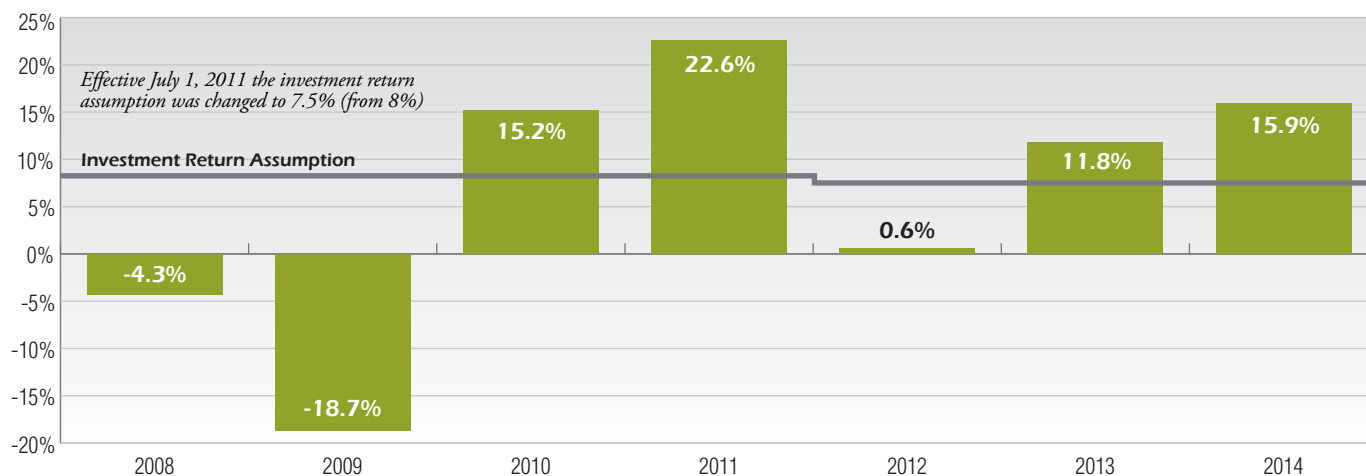
The Board and its Investment Consultant customarily make a formal review of this IPS annually. Any modifications to this Investment Policy Statement made by the Board will be provided to the investment managers prior to implementation, and the managers given a specific time within which to make comments, if desired.



*George Washington Equestrian Monumen*

# Schedules of Investment Results

## Fiscal Year Returns (Net of Fees)



## Investment Performance\* (Net of Fees)

One, Three, & Five Years Ending June 30, 2014

Asset Category	Note	1 YEAR		3 YEARS		5 YEARS	
		% Rate of Return	% Benchmark	% Rate of Return	% Benchmark	% Rate of Return	% Benchmark
U.S. Equity	(a)	24.6	25.2	15.7	16.5	18.0	19.3
International Equity	(b)	21.2	21.8	4.4	5.7	11.1	11.1
<b>Total Equity</b>	<b>(c)</b>	<b>23.6</b>	<b>22.9</b>	<b>12.2</b>	<b>10.3</b>	<b>16.6</b>	<b>14.3</b>
U.S. Fixed Income	(d)	7.7	4.4	6.0	3.7	9.0	4.9
Global Fixed Income	(e)	8.3	7.4	7.2	2.6	10.1	4.6
<b>Total Fixed Income</b>	<b>(f)</b>	<b>7.9</b>	<b>5.2</b>	<b>6.2</b>	<b>4.2</b>	<b>9.3</b>	<b>5.6</b>
Hedge Funds	(g)	8.5	7.6	3.8	3.3	4.6	4.2
Real Estate	(h)	12.0	13.2	11.9	12.5	N/A	N/A
Private Equity	(i)	17.5	0.0	12.1	0.0	N/A	N/A
Private Debt	(j)	7.0	9.6	N/A	N/A	N/A	N/A
Cash	(i)	0.1	0.0	(3.4)	0.0	N/A	N/A
<b>Total Plan</b>	<b>(k)</b>	<b>15.9%</b>	<b>14.5%</b>	<b>9.3%</b>	<b>8.9%</b>	<b>13.1%</b>	<b>12.9%</b>

### Benchmarks:

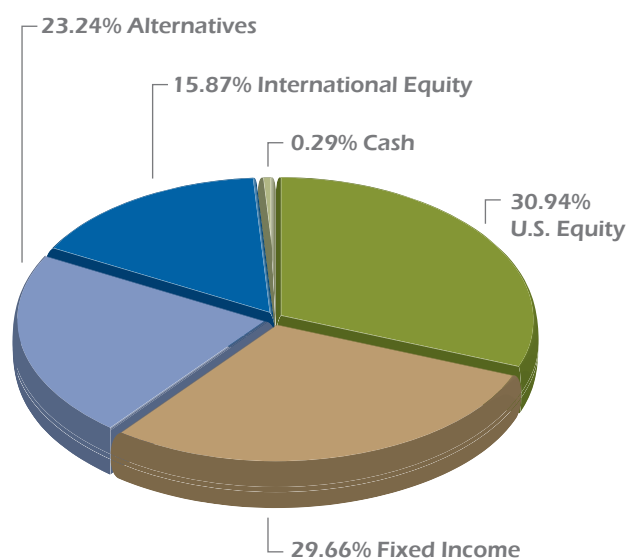
- |                                 |   |                             |
|---------------------------------|---|-----------------------------|
| (a) Russell 3000                | (e) Barclays Global Aggregate Index             | (i) 91-Day Treasury Bills   |
| (b) MSCI ACWI ex US             | (f) Barclays Universal Index                    | (j) Barclays Aggregate + 5% |
| (c) MSCI ACWI                   | (g) HFRI Fund of Funds Composite Index          | (k) Total Plan Policy Index |
| (d) Barclays US Aggregate Index | (h) 50% FTSE NAREIT Equity REIT/50% NCREIF ODCE |                             |

\* Source: NEPC Investment Performance Analysis Report as of June 30, 2014. NEPC uses a time-weighted performance calculation by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of Return are annualized when the time period is longer than a year.



# Asset Allocation

<b>Asset Class</b>	<b>Target Allocation</b>	<b>Actual Allocation*</b>
<b>US Equity</b>		
Large Cap Passive U.S. Equities	8.00%	9.26%
Large Cap U.S. Value	5.00%	7.17%
Large Cap Growth	5.00%	6.48%
SMID Cap Growth U.S. Equities	2.50%	4.03%
SMID Cap Value U.S. Equities	2.50%	4.00%
<b>Total</b>	<b>23.00%</b>	<b>30.94%</b>
<b>International Equity</b>		
Developed International Equities	8.00%	8.85%
Emerging International Equities	7.00%	7.02%
<b>Total</b>	<b>15.00%</b>	<b>15.87%</b>
<b>Fixed Income</b>		
Core Plus Bonds	9.50%	9.08%
High Yield Bonds	6.00%	6.08%
Global Bonds	4.00%	7.66%
Inflation Linked Bonds	4.00%	3.59%
Emerging Market Debt	4.00%	0.00%
Multi-Sector Fixed Income	2.00%	2.23%
Core Bonds	1.00%	1.02%
<b>Total</b>	<b>30.50%</b>	<b>29.66%</b>
<b>Alternatives</b>		
Hedge Funds	12.00%	11.80%
Private Equity	8.00%	2.45%
Private Debt	5.00%	3.43%
Real Estate	5.00%	5.56%
<b>Total</b>	<b>30.00%</b>	<b>23.24%</b>
<b>Cash</b>		
	1.50%	0.29%
<b>Total</b>	<b>1.50%</b>	<b>0.29%</b>
<b>Total</b>	<b>100.00%</b>	<b>100.00%</b>



\* Actual allocation based upon fair market value presented in the Statement of Fiduciary Net Position.

# Schedule of Investments

## Ten Largest Equity Holdings at June 30, 2014

Description	Share/Par	Fair Value
CISCO Systems Inc.	79,779	\$1,982,508
Facebook Inc. A	26,878	1,808,621
Amazon.com Inc.	5,550	1,802,529
Oracle Corp.	41,925	1,699,220
Visa Inc. Class A	7,788	1,641,009
Qualcomm Inc.	19,905	1,576,476
Coca Cola Co.	35,905	1,520,936
Procter + Gamble Co.	18,515	1,455,094
Schlumberger Ltd.	11,950	1,409,503
Lowe's Cos. Inc.	27,505	1,319,965
<b>Total Ten Largest Equity Holdings</b>		<b><u><u>\$16,215,861</u></u></b>

## Fair Value of Cash, Short-Term Investments, and Investments, June 30, 2014

**\$587,190,447**

## Percentage of Ten Largest Equity Holdings

**2.76%**

A complete listing of the holdings at June 30, 2014 is available from the RRS's executive office.

## Ten Largest Fixed Income Holdings at June 30, 2014

Description	Share/Par	Fair Value
US Treasury Notes 3.125% due 15 May 2021	1,300,000	\$1,387,854
US Treasury Notes 4.625% due 15 Nov 2016	1,175,000	1,286,355
US Treasury Notes 2% due 15 Nov 2021	1,300,000	1,283,750
US Treasury Notes 2.625% due 15 Aug 2020	982,000	1,021,899
US Treasury Notes 3.875% due 15 May 2018	925,000	1,017,648
Sprint Capital Corp 6.875% due 15 Nov 2028	736,000	743,360
Fannie Mae Mortgage Pass-Through 4% due 01 Dec 2099	650,000	689,813
Fannie Mae Mortgage Pass-Through 4.5% due 01 Dec 2099	600,000	649,782
Alcatel Lucent USA Inc. 6.45% due 15 Mar 2029	620,000	613,800
Fannie Mae Mortgage Pass 3.5% due 01 Dec 2099	525,000	540,425
<b>Total Ten Largest Fixed Income Holdings</b>		<b><u><u>\$9,234,684</u></u></b>

## Fair Value of Cash, Short-Term Investments, and Investments, June 30, 2014

**\$587,190,447**

## Percentage of Ten Largest Fixed Income Holdings

**1.57%**

A complete listing of the holdings at June 30, 2014 is available from the RRS's executive office.

# Schedule of Fees

## For Fiscal Year Ending June 30, 2014

	Assets Under Management	Related Fees*
<b>Investment Manager's Strategy</b>		
Corporate Stock	\$168,963,956	\$753,115
International Stock	96,150,418	261,480
Hedge Funds	65,303,836	-
Corporate Bonds and Notes	62,546,230	220,782
International Bonds and Notes	47,364,825	231,883
Private Real Estate	23,909,232	218,244
Mutual Funds	19,960,287	-
Private Debt	19,073,916	-
US Government and Agency Obligations	16,454,690	35,091
Private Equity	13,639,003	-
Cash and Cash Equivalents	12,443,520	37,484
REITs	6,963,363	54,809
Emerging Market Debt	6,199,789	12,090
<b>Total Long-Term Investments</b>	<b><u>558,973,065</u></b>	<b><u>1,824,977</u></b>
Cash Collateral for Securities Lending	32,384,739	-
Investment Payables	(7,162,133)	-
Investment Receivables	2,994,776	-
<b>Total</b>	<b><u>\$587,190,447</u></b>	<b><u>\$1,824,977</u></b>
<b>Other Investment Service Fees</b>		
Consultant		294,105
Custodian		260,492
Securities Lending Agent		43,567
<b>Total Investment Service Fees</b>		<b><u>\$2,423,142</u></b>

\*Mutual fund and limited partnership fees are not reflected in this schedule; instead, these investment expenses are netted against investment income in the statement of changes of Plan net position to arrive at a net investment income amount.

# Schedule of Brokerage Commissions

## Commissions in Excess of \$10,000

For the Fiscal Year Ended June 30, 2014

Broker Name	Shares/Par	Commission	Per Share
Broadcort Capital (through Merrill Lynch)	806,243	\$31,461	\$0.04
Other*	<u>391,702,170</u>	<u>53,236</u>	0.00
<b>Total Commissions</b>	<b><u>\$392,508,413</u></b>	<b><u>\$84,697</u></b>	

\*Other includes all commissions to brokerage firms receiving less than \$10,000 during the fiscal year ended 6/30/2014.



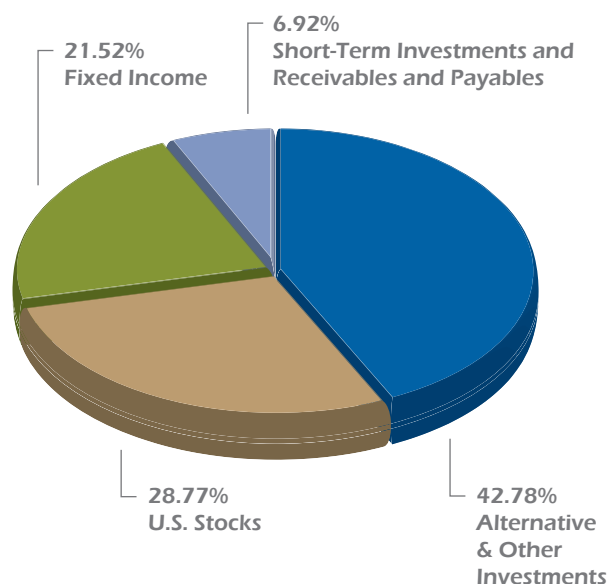
*The Fan Neighborhood, Courtesy of the Richmond Metropolitan Convention and Visitors Bureau*



*Virginia Museum of Fine Arts, c Bilyana Dim, Courtesy Visit Richmond*

# Investment Summary

<i>As of June 30, 2014</i>	<b>Fair Value</b>	<b>% of Total Fair Value</b>
<b>U.S. Stocks</b>		
Information Technology	\$21,073,821	3.59%
Consumer	19,682,989	3.35%
Financial	14,821,571	2.52%
Healthcare	11,815,331	2.01%
Industrials	10,180,542	1.73%
Energy	8,028,357	1.37%
Materials	1,516,555	0.26%
Utilities	1,379,122	0.23%
Telecommunications	1,102,967	0.19%
Other	79,362,702	13.52%
<b>Total U.S. Stock</b>	<b>168,963,956</b>	<b>28.77%</b>
<b>Fixed Income</b>		
Corporate Bonds	62,546,230	10.65%
International Bonds	47,364,825	8.07%
U.S. Government and Agency Obligations	16,454,690	2.80%
<b>Total Fixed Income</b>	<b>126,365,745</b>	<b>21.52%</b>
<b>Alternative &amp; Other Investments</b>		
International Stock	96,150,418	16.37%
Hedge Funds	65,303,836	11.12%
Private Real Estate	23,909,232	4.07%
Mutual Funds	19,960,287	3.40%
Private Debt	19,073,916	3.25%
Private Equity	13,639,003	2.32%
REITs	6,963,363	1.19%
Emerging Market Debt	6,199,789	1.06%
<b>Total Alternative Investments</b>	<b>251,199,843</b>	<b>42.78%</b>
<b>Short-Term Investments</b>		
Cash Collateral for Securities Lending	32,384,739	5.52%
Cash and Cash Equivalents	12,443,520	2.12%
<b>Total Short-Term Investments</b>	<b>44,828,260</b>	<b>7.63%</b>
<b>Receivables and Payables</b>		
Due from Brokers on Sale of Securities	2,272,890	0.39%
Interest and Dividends Receivable	712,441	0.12%
Other Investment Receivables	9,445	0.00%
Due to Broker on Purchase of Securities	(7,162,133)	-1.22%
<b>Total Receivables and Payables</b>	<b>(4,167,357)</b>	<b>-0.71%</b>
<b>Total Investments</b>	<b>\$587,190,447</b>	<b>100.00%</b>





Virginia Museum of Fine Arts

## Actuarial Section

*The Actuarial Section presents information relating to the funded status of the pension plan. Additionally, the section provides detailed information about actuarial assumptions, includes retirement trend data, and summarized provisions and changes.*

### **In this section:**

- Actuary's Report
- Actuarial Assumptions and Methods
- Schedule of Active Members Valuation Data
- Schedule of Beneficiaries Added and Removed from Rolls
- Analysis of Financial Experience

# Actuary's Report



4421 Cox Road  
Glen Allen, VA 23060  
sageviewadvisory.com

October 8, 2014

Board of Trustees  
The Richmond Retirement System  
Richmond, Virginia

Ladies and Gentlemen:

Actuarial valuations of the Richmond Retirement System are performed annually. The results of the latest actuarial valuation of the System, which was prepared as of July 1, 2014, are summarized in this letter.

The valuation reflects the benefits in effect on the valuation date, and was prepared on the basis of the data submitted by the City using generally accepted actuarial principles and methods.

## **Financing Objective and City's Contribution Rate**

The financing objective of the System is to:

- (a) Fully fund all current costs based on the normal contribution rate payable by the City determined under the funding method; and
- (b) Liquidate the unfunded actuarial liability based on actuarial liability contributions payable by the City over an amortization period of no more than 30 years, with contributions increasing 4% per year for Police/Fire employees and level contributions for General employees.

The July 1, 2014 valuation develops contribution rates for the fiscal year ending June 30, 2016. These contribution rates, which are based on the covered payroll as of July 1, 2014, are as follows:

	<b>General Employees</b>	<b>Police &amp; Fire</b>	<b>Total</b>
Beginning of Year	39.31%	37.52%	38.45%
Monthly	40.78%	38.93%	39.89%
End of Year	42.26%	40.33%	41.33%

The above rates should be adjusted to reflect the actual budgeted payroll for the fiscal year ending June 30, 2016 if it is different than the covered payroll on which they are based.

*continued on next page*



The City is also making annual contributions to fund retiree COLAs granted in 2007 and 2009 as follows:

	General Employees	Police & Fire	Total
Amount Payable July 1, 2014	\$431,659	\$437,353	\$869,012

The contribution rates and amounts displayed above are sufficient to support the benefits of the System and administrative expenses, and achieve the financing objective set forth above.

**Net Pension Liability**

Under GASB 67, the Net Pension Liability is the excess, if any, of the Total Pension Liability over the Fiduciary Net Position. The Total Pension Liability is determined under the Entry Age actuarial cost method. The Net Pension Liability as of June 30, 2014 and June 30, 2013 is as follows:

	June 30, 2014	June 30, 2013
Total Pension Liability	\$854,284,141	\$864,988,165
Fiduciary Net Position	\$544,904,299	\$492,618,782
Net Pension Liability	\$309,379,842	\$372,369,383
Fiduciary Net Position as a Percentage of Total Pension Liability	63.8%	57.0%

**Legislative and Administrative Changes**

During the fiscal year ended June 30, 2014, the City offered a Voluntary Retirement Incentive Program (VRIP) to general employees who met certain age and service criteria. 133 employees accepted the offer. The VRIP resulted in an increase in actuarial liability of \$8,705,940 which is being amortized in a level dollar amount over a 20 year period beginning July 1, 2014. The annual amortization payment is \$794,404.

During the fiscal year ended June 30, 2014, the City also adopted an ordinance eliminating the requirement that the actuarial cost method be Projected Unit Credit. This change is effective with the July 1, 2014 valuation (for determining contribution rates for the fiscal year ended June 30, 2016) as well as for purposes of financial reporting for the fiscal year ended June 30, 2014 (in accordance with GASB 67).

There were no other legislative or administrative changes during the fiscal year ended June 30, 2014.

**Actuarial Assumptions and Methods**

Actuarial assumptions are adopted by the Board, upon review of recommendations made by the actuary. An experience study was conducted for the five-year period ended June 30, 2013. This study resulted in the Board adopting several changes in assumptions, at the recommendation of the actuary, in order to better anticipate emerging experience. The Board also adopted the Entry Age actuarial cost method (required under GASB 67 for financial reporting purposes) for purposes of determining contribution rates. Previously the Projected Unit Credit method was used. Finally, the

*continued on next page*



Board reviewed the investment return assumption and voted to maintain the current 7.5% assumption. These changes in assumptions and methods resulted in a net decrease in actuarial liability of \$6,690,593.

The unfunded actuarial liability as of July 1, 2006 is being amortized over a period of 20 years; subsequent changes in unfunded actuarial liability (with the exception of changes due to COLA) are also being amortized over a period of 20 years, with contributions increasing 4% per year for Police & Fire employees and level contributions for General employees. Increases in unfunded actuarial liability due to COLA are funded via a first year lump sum payment with the remaining increase amortized over a period of five to ten years. The portion funded via a lump sum and the portion amortized are based on the System's funded status in accordance with a schedule adopted by the Board of Trustees.

For purposes of determining contribution rates, the difference between actual investment earnings and expected investment earnings is recognized over a five-year period, with the restriction that the actuarial asset value cannot be less than 90% or more than 110% of market value. This smoothing method is utilized in order to smooth the impact of short term market fluctuations on the System's contribution rates and funded status. For purposes of financial reporting beginning with the fiscal year ended June 30, 2014, assets are reported at fair market value.

Samples of the actuarial assumptions and descriptions of the actuarial cost method and asset valuation method are set forth in the outline of actuarial assumptions and methods included in the report.

### **System Assets and Participant Data**

The individual data for members of the System as of the valuation date were reported to the actuary by the City. While we did not verify the data at their source, we did perform tests for internal consistency and reasonableness in comparison with the data submitted for the previous valuation. It is our understanding that the independent auditor of the System has also made an examination of the data.

The value of assets in the trust fund taken into account in the valuation was based on statements prepared for us by the Retirement System Staff and audited by the independent auditor of the System. Assets have been reduced by the value of DROP accounts as those accounts are recognized as benefits payable from the System.

### **Financial Results and Membership Data**

Detailed summaries of the financial results of the valuation and membership data used in preparing the valuation are shown in the valuation report and the related membership data schedules. We were responsible for providing information for all schedules included in the Actuarial Section as well as certain schedules included in other sections of the consolidated annual financial report for the fiscal year ended June 30, 2014.

### **Defined Contribution Plan**

The City also sponsors a 401(a) Defined Contribution Plan for General employees hired on or after July 1, 2006 (with the exception of senior executives) and other employees who have elected to participate in that plan in lieu of the Richmond Retirement System. We have prepared an analysis of the Defined Contribution Plan with respect to Virginia Code Title 51.1-800 and believe it is in compliance.

*continued on next page*

### **Funding Adequacy**

The results of the valuation indicate the rate of contribution payable by the City, when taken together with the current assets of the System including member contributions, is adequate to fund the actuarial liabilities on account of all benefits payable under the System in accordance with generally accepted actuarial principles utilizing the assumptions and methods adopted by the Board.

To the best of our knowledge, this report is complete and accurate and the System is being operated on an actuarially sound basis. All costs and liabilities have been determined in conformance with generally accepted actuarial principles and on the basis of actuarial assumptions and methods which are each individually reasonable taking into account past experience and reasonable expectations of future experience.

Respectfully submitted,

**SageView Consulting Group**

A handwritten signature in black ink, appearing to read 'William M. Dowd', written over a horizontal line.

William M. Dowd, FCA, EA  
*Managing Principal*

A handwritten signature in black ink, appearing to read 'William J. Reid', written over a horizontal line.

William J. Reid, FCA, EA  
*Principal*

SEE  
WHERE  
YOU'RE  
GOING



# Actuarial Assumptions and Methods

## Actuarial Cost Method

For fiscal years ended on or before June 30, 2014 the actuarial cost method used to determine the actuarial liability and the normal cost was the Projected Unit Credit Method. Beginning with the fiscal year ended June 30, 2014 the actuarial cost method used to determine the actuarial liability and the normal cost is the Entry Age Actuarial Cost Method.

The accrued liability and the normal cost are used to determine the City of Richmond's contribution requirement.

The July 1, 2013 valuation developed contribution rates for the fiscal year ending June 30, 2015, using the Projected Unit Credit Method. However, due to the GASB 67 implementation, the RRS will utilize the Entry Age Actuarial Cost Method to develop contribution rates for the fiscal year ending June 30, 2016.

The investment return assumption of 7.5% was adopted July 1, 2011. The following actuarial assumptions and methods were adopted June 30, 2014.

## Actuarial Assumptions

### Interest

7.5% per annum, compounded annually.

### Mortality

Active Lives and Service Retirements

**General Employees:**  
RP-2000 Mortality Table with 2-year set-forward for males

**Police and Fire Employees:**  
RP-2000 Mortality Table

Disabled Lives

**General Employees:**  
PBGC disabled life table for retirees receiving Social Security

**Police and Fire Employees:**  
PBGC disabled life table for retirees not receiving Social Security

### Turnover

**General Employees:** An attained age table with the following typical rates:

Age	Rate
25	.1668
35	.1039
45	.0574
55	.0219
60	.0137

**Police and Fire Employees:** An attained age table with the following typical rates:

Age	Rate
25	.0567
35	.0310
45	.0068
55	.0011
60	.0000

### Retirement

**General Employees:** A select and ultimate table with the following typical rates; 20% for the first year in which the employee is eligible for unreduced immediate retirement benefits, and:

Age	Rate
55-57	.030
58-59	.060
60	.030
61	.090
62	.200
63	.100
64	.200
65	.250
66-70	.300
71-74	.500
75	1.000

**Police and Fire Employees:** A select and ultimate table with the following typical rates; 40% for the first year in which the employee is eligible for unreduced immediate retirement benefits, and:

Age	Rate
50	.090
51-54	.120
55-56	.150
57-58	.090
59-63	.500
64	1.000

### Disability

**General Employees:** An attained age table with the following typical rates:

Age	Rate
25	.0004
35	.0004
45	.0012
55	.0034
60	.0049

**Police and Fire Employees:** An attained age table with the following typical rates:

Age	Rate
25	.0002
35	.0002
45	.0006
55	.0027

### Duty Disability

**General Employees:** An attained age table with the following typical rates:

Age	Rate
25	.0000
35	.0000
45	.0001
55	.0006

**Police and Fire Employees:** An attained age table with the following typical rates:

Age	Rate
25	.0002
35	.0002
45	.0009
55	.0038

### Salary Increases

**General Employees:** An attained age table with the following typical rates:

Age	Rate
25	.040
35	.035
45	.035
55	.030
60	.030

**Police and Fire Employees:** An attained age table with the following typical rates:

Age	Rate
25	.045
35	.045
45	.030
55	.030
60	.030

### Cost-of-Living Adjustments

None assumed.

### Asset Valuation Basis

For purposes of determining contribution rates, five-year spread of the difference between actual investment earnings and assumed investment earnings at 7.5% was used. The resulting actuarial asset value cannot be less than 90% or greater than 110% of market value.

# Schedule of Active Members Valuation Data

## General Defined Benefit Plan Members *(Dollars in Thousands)*

Valuation Date	Members	Annual Payroll	Average Salary	Percent Increase (Decrease)
<b>6/30/2014</b>	<b>1,075</b>	<b>\$57,323</b>	<b>\$53</b>	<b>3.4</b>
6/30/2013	1,256	64,794	52	0.2
6/30/2012	1,375	70,773	51	1.6
6/30/2011	1,510	76,521	51	1.1
6/30/2010	1,644	82,411	50	1.0
6/30/2009	1,778	88,214	50	3.7
6/30/2008	1,886	90,250	48	4.7
6/30/2007	2,071	94,688	46	5.3
6/30/2006	2,570	111,637	43	3.6

## Police and Fire Defined Benefit Plan Members *(Dollars in Thousands)*

Valuation Date	Members	Annual Payroll	Average Salary	Percent Increase (Decrease)
<b>6/30/2014</b>	<b>990</b>	<b>\$53,425</b>	<b>\$54</b>	<b>0.2</b>
6/30/2013	963	51,872	54	(2.3)
6/30/2012	985	54,287	55	0.0
6/30/2011	988	54,450	55	(2.7)
6/30/2010	972	55,062	57	(1.4)
6/30/2009	1,004	57,654	57	4.4
6/30/2008	992	54,583	55	1.9
6/30/2007	985	53,210	54	0.2
6/30/2006	956	51,556	54	7.7

## Defined Contribution 401(a) Plan Members *(Dollars in Thousands)*

Valuation Date	Members	Annual Payroll	Average Salary	Percent Increase (Decrease)
<b>6/30/2014</b>	<b>1,865</b>	<b>\$90,102</b>	<b>\$48</b>	<b>0.0</b>
6/30/2013	1,765	85,235	48	2.7
6/30/2012	1,735	81,603	47	(1.2)
6/30/2011	1,656	78,861	48	1.2
6/30/2010	1,632	76,819	47	1.4
6/30/2009	1,614	74,938	46	3.1
6/30/2008	1,402	63,161	45	4.2
6/30/2007	1,059	45,801	43	0.6
6/30/2006	494	21,248	43	3.8

# Schedule of Beneficiaries Added to and Removed from Rolls

(Dollars in Thousands)

Ended	Added	Annual Allowances		Total	Annual Allowances	% Change	Average Annual Allowances	Retirees as a Percent of Active Members	
		Added	Removed					Removed	Number
6/30/14	285	\$5,087	143	4,312	\$68,208	5.3%	\$16	208.8%	61.6%
6/30/13	182	\$1,917	143	4,170	\$64,775	0.7%	\$16	187.9%	55.5%
6/30/12	206	\$2,885	153	4,131	\$64,341	2.0%	\$16	175.0%	51.4%
6/30/11	217	\$4,038	136	4,078	\$63,086	4.3%	\$15	163.3%	48.2%
6/30/10	205	\$3,580	171	3,997	\$60,511	3.4%	\$15	152.8%	44.0%
6/30/09	159	\$1,703	117	3,963	\$58,512	1.0%	\$15	142.5%	40.1%
6/30/08	239	\$3,628	159	3,921	\$57,932	3.8%	\$15	136.2%	40.0%
6/30/07	186	\$3,539	120	3,841	\$55,830	4.5%	\$15	125.7%	37.7%
6/30/06	235	\$3,318	180	3,775	\$53,411	3.7%	\$14	107.1%	32.7%
6/30/05	248	\$3,709	160	3,720	\$51,524	4.5%	\$14	103.1%	32.4%
6/30/04	289	\$6,231	112	3,632	\$49,283	12.0%	\$14	99.4%	31.2%
6/30/03	193	\$2,806	123	3,455	\$43,989	4.2%	\$13	84.6%	25.5%
6/30/02	198	\$4,765	146	3,385	\$42,210	10.0%	\$12	82.2%	25.3%
6/30/01	218	\$3,425	139	3,333	\$38,377	6.8%	\$12	81.1%	24.3%
6/30/00	197	\$3,421	122	3,254	\$35,942	7.9%	\$11	77.4%	23.3%

# Analysis of Financial Experience

## Reasons for Change in the Unfunded Actuarial Liability

The unfunded actuarial liability was \$309,379,842 as of June 30, 2014. The decrease from the prior year was primarily due the actual investment return on the value of assets being greater than expected.

## Reasons for Change in Funded Status

The funded status as of June 30, 2014 was 63.8%. The increase from the prior year is primarily due to investment return on the value of assets which was greater than assumed.

## Reasons for Change in Contribution Rates

The overall employer contribution rate, as of the beginning of the year, increased from 32.68% for the fiscal year ending June 30, 2013 to 36.14% for the fiscal year ending June 30, 2014. The increase of 3.46% is due to the following reasons:

Increase due to investment gain on actuarial value of assets:	2.12%
Increase due to changes in assumptions:	0.00%
Increase due to changes in benefit provisions:	0.00%
Increase due to reduction in covered payroll	1.70%
Decrease due to other experience factors:	(0.36%)
<b>Total:</b>	<b>3.46%</b>



*Richmond International Airport, Courtesy of RIA and Virginia Tourism Corporation*



*Main Street Station*

# Statistical Section

*The Statistical Section presents detailed historical information regarding the pension plan administered by the RRS. This information includes a 10-year overview of changes in net position, plan membership, contributions, plan additions and deductions, benefits and refunds. Included in this analysis is statistical information regarding retirees.*

## **In this section:**

- Schedule of Changes and Growth in Net Position
- Schedule of Retirees and Beneficiaries by Type of Retirement
- Schedule of Participating Employers (Current Year and Ten Years Ago)
- Schedule of Average Benefit Payments
- Schedule of Membership



# Schedule of Changes and Growth in Net Position

## Pension Trust Fund *(Dollars in Thousands)*

For the year ended June 30

	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005
<b>Net Position Available — Beginning of Year</b>	<u>\$492,619</u>	<u>\$461,761</u>	<u>\$489,987</u>	<u>\$417,669</u>	<u>\$386,358</u>	<u>\$511,657</u>	<u>\$559,529</u>	<u>\$497,054</u>	<u>\$465,795</u>	<u>\$440,934</u>
<b>Additions</b>										
Employer Contributions	42,295	40,402	38,884	39,718	32,079	33,192	31,936	30,889	30,712	23,387
Member Contributions	2,118	2,093	2,217	2,421	2,486	2,579	2,800	2,545	1,158	1,314
Investment Income (Loss)	76,463	54,219	1,896	93,770	59,128	(97,507)	(27,346)	82,273	49,635	48,524
DC Contribution Revenue	48	44	31	52	51	49	90	—	—	—
<b>Total Additions</b>	<u>120,924</u>	<u>96,758</u>	<u>43,028</u>	<u>135,961</u>	<u>93,744</u>	<u>(61,686)</u>	<u>7,479</u>	<u>115,707</u>	<u>81,505</u>	<u>73,224</u>
<b>Deductions</b>										
Benefit Payments	67,274	64,673	70,037	62,392	61,222	62,835	54,134	51,584	49,188	47,395
Refunds	47	102	49	81	118	102	54	535	—	—
Administrative Expenses	1,318	1,125	1,166	1,169	1,094	1,095	1,162	1,114	1,058	969
<b>Total Deductions</b>	<u>68,639</u>	<u>65,900</u>	<u>71,253</u>	<u>63,643</u>	<u>62,434</u>	<u>64,033</u>	<u>55,351</u>	<u>53,233</u>	<u>50,246</u>	<u>48,363</u>
<b>Change in Net Position</b>	<u>52,285</u>	<u>30,858</u>	<u>(28,225)</u>	<u>72,318</u>	<u>31,310</u>	<u>(125,719)</u>	<u>(47,872)</u>	<u>62,474</u>	<u>31,259</u>	<u>24,861</u>
<b>Net Position Available — End of Year</b>	<u>\$544,904</u>	<u>\$492,619</u>	<u>\$461,761</u>	<u>\$489,987</u>	<u>\$417,669</u>	<u>\$386,359</u>	<u>\$511,657</u>	<u>\$559,529</u>	<u>\$497,054</u>	<u>\$465,795</u>

# Schedule of Retirees and Beneficiaries

June 30, 2014

Amount of Monthly Benefit	Number of Retirees	Type of Retirement <sup>1</sup>							Option Selected <sup>2</sup>					
		A	B	C	D	E	F	G	Life	1	2	3	4	5
\$1-\$100	338	0	23	300	14	1	0	0	298	13	0	6	0	21
\$101-\$200	353	8	49	278	10	1	3	4	296	20	2	0	1	34
\$201-\$300	245	16	65	142	8	1	10	3	199	12	0	5	2	27
\$301-\$400	232	12	90	95	14	0	13	8	156	16	0	3	2	55
\$401-\$500	210	20	84	69	7	3	23	4	156	9	0	0	0	45
\$501-\$600	201	17	80	64	12	6	16	6	142	5	1	3	2	48
\$601-\$700	152	17	74	42	8	0	9	2	103	4	0	4	3	38
\$701-\$800	141	16	75	22	10	3	13	2	88	2	1	2	1	47
\$801-\$900	141	18	81	15	8	7	10	2	76	5	1	1	3	55
\$901-\$1000	132	18	71	18	3	7	13	2	73	3	0	3	5	48
Over \$1000	2,167	314	1,575	37	44	109	87	1	1,390	122	37	100	91	427
<b>Total</b>	<b>4,312</b>	<b>456</b>	<b>2,267</b>	<b>1,082</b>	<b>138</b>	<b>138</b>	<b>197</b>	<b>34</b>	<b>2,977</b>	<b>211</b>	<b>42</b>	<b>127</b>	<b>110</b>	<b>845</b>

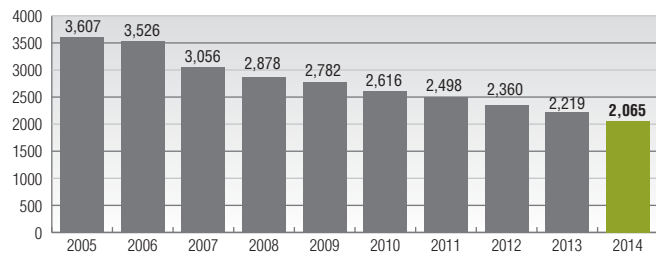
## <sup>1</sup>Types of Retirement

- A Normal Retirement** — A general employee age 65 or a sworn public safety officer age 60 or older.
- B Early Service** — A general employee at least age 55, with five years of creditable service, or a sworn public safety officer at least age 50, with five years of creditable service.
- C Deferred Service** — A former vested general employee age 65 or older or a former vested sworn public safety officer age 60 or older.  
*Deferred Early Service* — A former vested general employee at least age 55 but less than age 65 or a sworn public safety officers at least age 50 but less than age 60.
- D Beneficiary (normal, early, deferred retirement)** — Surviving beneficiary of a deceased retiree who is receiving a retirement allowance payable monthly for life.
- E Compensable Disability** — An employee who retires from active service due to a job-related disability.
- F Ordinary Disability** — A vested employee who retires from active service due to a non-job-related disability.
- G Beneficiary (disability)** — Beneficiary of a deceased disability retiree who is receiving a retirement allowance payable monthly for life.

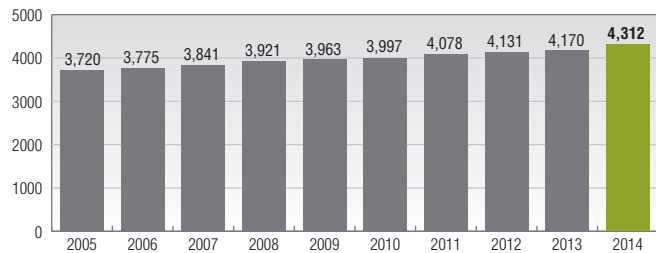
## <sup>2</sup>Option Selected

- LIFE** — Basic Benefit
- Option 1** — 100% Joint and Survivor Benefit
- Option 2** — 75% Joint and Survivor Benefit
- Option 3** — 50% Joint and Survivor Benefit
- Option 4** — 25% Joint and Survivor Benefit
- Option 5** — Social Security (Smooth-Out)

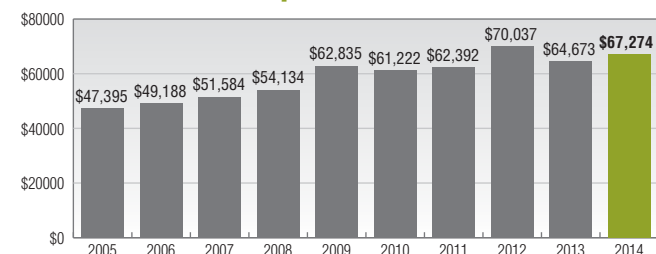
## Number of Active Defined Benefit Plan Members



## Number of Retirees and Beneficiaries



## Retirement Benefit Expenses (Dollars in Thousands)



# Schedule of Participating Employers Current Year and Ten Years Ago

Participating Employers	2014			2004		
	Covered Employees	Rank	Percentage of Total System	Covered Employees	Rank	Percentage of Total System
City of Richmond	2,021	1	97.9%	3,463	1	94.8%
Richmond Behavioral Health Authority	44	2	2.1%	191	2	5.2%
<b>Total</b>	<b>2,065</b>		<b>100.0%</b>	<b>3,654</b>		<b>100.00%</b>

## Benefit Payment Options:

### Basic Benefit

This form of payment provides a monthly benefit for life. However, when member dies, all benefits stop. There are no monthly payments to a beneficiary after death.

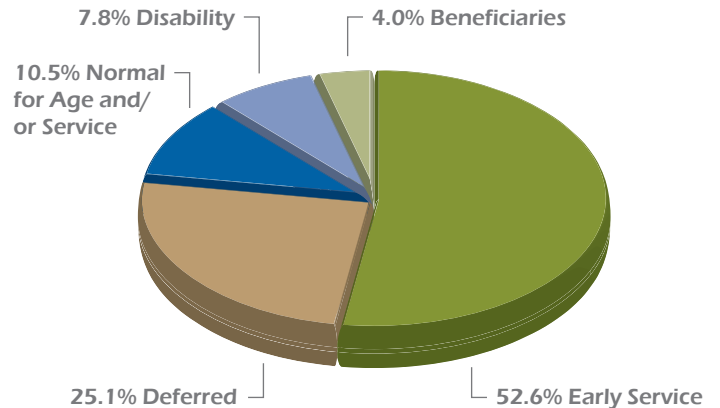
### Social Security (Smooth-Out) Option

This form of payment provides an increased monthly benefit prior to age 65. When a member reaches age 65, retirement benefits will be reduced by the projected amount of their primary Social Security benefit. The purpose of this option is to provide for a more level total retirement income before and after age 65, taking into account the federal Social Security benefits. There are no monthly payments to a beneficiary after the member's death.

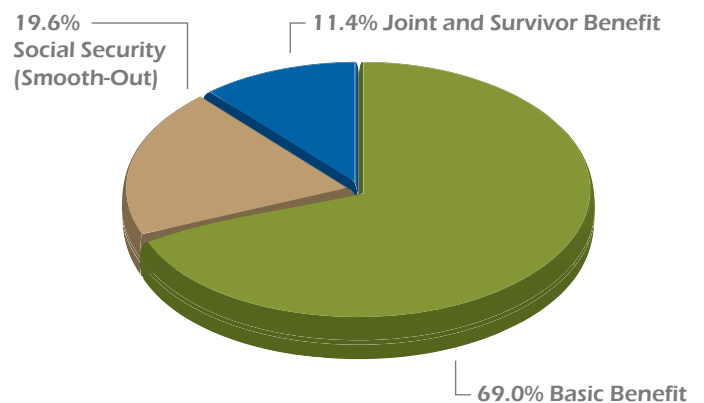
### Joint and Survivor Benefit Option

This form of payment provides a reduced benefit during a member's lifetime. Upon the member's death, the same amount or a designated fraction (25%, 50% or 75%) will continue to be paid to a designated beneficiary, if living. The benefit remains reduced if the designated beneficiary precedes the member in death.

## Retirement Types



## Benefit Payment Options



# Schedule of Average Benefit Payments

## Retirements Effective July 1, 2005 to June 30, 2014

	Years of Creditable Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
<b>FY 2014</b>							
Average monthly benefit	\$0	\$270	\$631	\$1,265	\$1,920	\$2,624	\$2,824
Average final salary	\$0	\$28,316	\$38,490	\$45,144	\$49,749	\$55,108	\$50,571
Number of retired members	0	41	40	15	24	39	100
<b>FY 2013</b>							
Average monthly benefit	\$199	\$264	\$508	\$819	\$1,499	\$2,582	\$3,142
Average final salary	\$75,193	\$30,468	\$31,411	\$40,595	\$50,062	\$61,874	\$58,771
Number of retired members	2	37	30	16	21	30	38
<b>FY 2012</b>							
Average monthly benefit	\$322	\$299	\$457	\$677	\$2,032	\$2,792	\$2,722
Average final salary	\$40,323	\$33,962	\$33,936	\$31,863	\$52,933	\$60,187	\$50,971
Number of retired members	1	32	25	18	15	31	68
<b>FY 2011</b>							
Average monthly benefit	\$26	\$285	\$562	\$1,041	\$1,884	\$3,026	\$2,814
Average final salary	\$30,691	\$29,926	\$29,721	\$51,322	\$55,280	\$64,226	\$52,330
Number of retired members	1	43	22	23	28	34	62
<b>FY 2010</b>							
Average monthly benefit	\$105	\$204	\$472	\$709	\$2,007	\$3,122	\$2,766
Average final salary	\$28,580	\$25,991	\$35,365	\$33,647	\$55,308	\$64,977	\$51,989
Number of retired members	1	33	18	16	27	37	48
<b>FY 2009</b>							
Average monthly benefit	\$0	\$177	\$538	\$812	\$1,307	\$2,674	\$2,396
Average final salary	\$0	\$22,323	\$34,916	\$37,829	\$42,471	\$60,212	\$46,044
Number of retired members	0	41	21	17	16	20	36
<b>FY 2008</b>							
Average monthly benefit	\$102	\$229	\$593	\$695	\$1,653	\$2,088	\$2,500
Average final salary	\$19,692	\$21,941	\$40,280	\$34,364	\$48,623	\$45,546	\$48,974
Number of retired members	1	51	16	25	29	27	50
<b>FY 2007</b>							
Average monthly benefit	\$0	\$325	\$564	\$639	\$854	\$2,137	\$2,579
Average final salary	\$0	\$35,270	\$29,671	\$35,828	\$53,399	\$47,612	\$48,148
Number of retired members	0	32	20	16	37	30	54
<b>FY 2006</b>							
Average monthly benefit	\$151	\$174	\$634	\$520	\$1,320	\$2,145	\$2,458
Average final salary	\$33,120	\$20,592	\$32,286	\$28,257	\$41,150	\$46,932	\$45,775
Number of retired members	2	53	26	19	21	40	52
<b>FY 2005</b>							
Average monthly benefit	\$0	\$236	\$384	\$777	\$1,235	\$2,189	\$2,459
Average final salary	\$0	\$23,867	\$25,595	\$42,767	\$39,350	\$48,364	\$47,119
Number of retired members	0	38	26	13	26	61	83

# Schedule of Membership

June 30, 2014

## Active Defined Benefit Plan Members – By Departments and Agencies

Animal Care & Control	4
Assessor of Real Estate	9
City Auditor	2
City Clerk	4
City Council	3
Department of Budget & Strategic Planning	4
Department of Community Development	33
Department of Economic Development	12
Department of Emergency Communications	23
Department of Finance	30
Department of Fire & Emergency Services	
General Employees	8
Firefighters	363
Department of Health	1
Department of Human Resources	7
Department of Information Technology	29
Department of Parks, Recreations & Community Facilities	94
Department of Procurement Services	2
Department of Public Utilities	271
Department of Public Works	202
Department of Social Services	147
Juvenile Justice Services	22
Law Department	15
Minority Business Enterprise	1
Office of the Chief Administrative Officer	3
Office of the Mayor	3
Public Library	28
Richmond Behavioral Health Authority	44
Richmond Police Department	
General Employees	63
Police Officers	627
Richmond Public Schools	6
Richmond Retirement System	2
Youth Services	3
<b>Total</b>	<b>2,065</b>

## Retired Members

General Employees	3,089
Police & Fire Employees	1,218
City Council Members	5
<b>Total</b>	<b>4,312</b>

## Terminated Vested Defined Benefit Plan Members

General Employees	1,460
Police & Fire Employees	202
City Council Members	-
<b>Total</b>	<b>1,662</b>

## Active Defined Contribution 401(a) Plan Members

General Employees	1,799
Police & Fire Employees	66
<b>Total</b>	<b>1,865</b>

<b>Total Membership</b>	<b>9,904</b>
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**Richmond Retirement System**

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