

# Comprehensive Annual Financial Report

For the fiscal year ended June 30, 2020

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for the fiscal year ended June 30, 2020

# 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 Richmond Retirement System (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 (RRS), its Board of Trustees, City officials, departments, and City Council.

A publication of the Richmond Retirement System, A pension trust fund of the City of Richmond, Virginia



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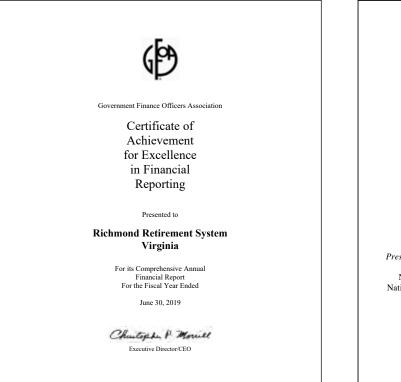


# **Introductory Section**

#### In this section:

Awards Letter of Transmittal Organizational Chart Board of Trustees Executive Director Investment Managers and Other Service Providers

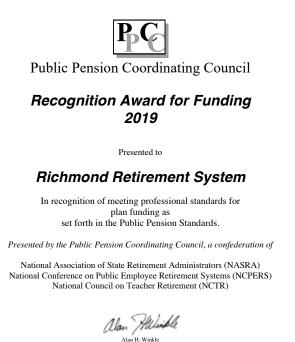
# Awards





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, 2019. This was the 29th 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 the fiscal year ended 2020 continues to conform to the Certificate of Achievement Program requirements.



# Public Pension Coordinating Council Achievement Award

The RRS received the 2019 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 tenth 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



October 28, 2020

To the Honorable Richmond City Council and Mayor Levar M. Stoney Richmond, VA 23219

On behalf of the Board of Trustees of the Richmond Retirement System (RRS or the System) and in accordance with City of Richmond code § 22-54, I am pleased to submit the RRS Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2020. The CAFR was prepared by the RRS, a pension trust fund of the City of Richmond, and management maintains responsibility for the accuracy and completeness of the presentation including all disclosures.

In addition to this Introductory Section, the RRS's CAFR contains a Financial Section, Investment Section, Actuarial Section, and Statistical Section. This 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 and provides an in-depth analysis of the RRS's financial statements. The Financial Section also includes the report of the RRS's independent auditor, which states the auditor's opinion on the financial position of the RRS.

# 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. This is our 75th year of operations. The System administers its defined benefit plan in accordance with provisions outlined in both the Richmond City Charter (5B.01) and Chapter 22 of the Richmond Municipal Code. A single employer, the City of Richmond, and its component unit, The Richmond Behavioral Health Authority, participate in the RRS on behalf of their employees.

### Accounting Basis and Internal Controls

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).

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 present fairly the RRS's net position at June 30, 2020, and the changes in its plan net position.

continued on next page

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 derived from that control. In management's opinion, the internal controls in effect during fiscal year 2020 adequately safeguard the System's assets and provide reasonable assurance regarding the proper recording of financial transactions.

# Funding

At June 30, 2020, the Plan Fiduciary Net Position as a percentage of the Total Pension Liability (Funded Status) was 59.2%, compared to 61.0% at June 30, 2019. In 2020, the city of Richmond contributed \$5.3 million for an ad-hoc COLA plus an additional contribution of \$1.7 million above the Actuarial Determined Contribution (ADC).

# Investments

For the fiscal year ended June 30, 2020, the RRS's investment portfolio returned 2.1% on a net-of-fees (net) basis compared to an investment return of 4.2% net in the prior year. The fair market value of the RRS investment portfolio at June 30, 2020 was \$573.3 million, a decrease of \$4.6 million from the prior year.

# Major Initiatives and Awards

Following extensive strategic analysis, RRS implemented a significant restructuring of its core investment portfolio in the latter half of 2020 repositioning it for the future. The portfolio restructure is a multi-year project impacting all asset classes. RRS also facilitated the City Council's Voluntary Retirement Incentive Program (VRIP) initiative.

The Government Finance Officers Association (GFOA) awarded the RRS its Certificate of Achievement for Excellence in Financial Reporting for the 2019 Comprehensive Annual Financial Report. This national award is granted to entities whose comprehensive annual financial reports meet or exceed the GFOA's guidelines. Additionally, the RRS was awarded a Certificate of Funding by the Public Pension Coordinating Council (PPCC) for the fiscal year ended June 30, 2019.

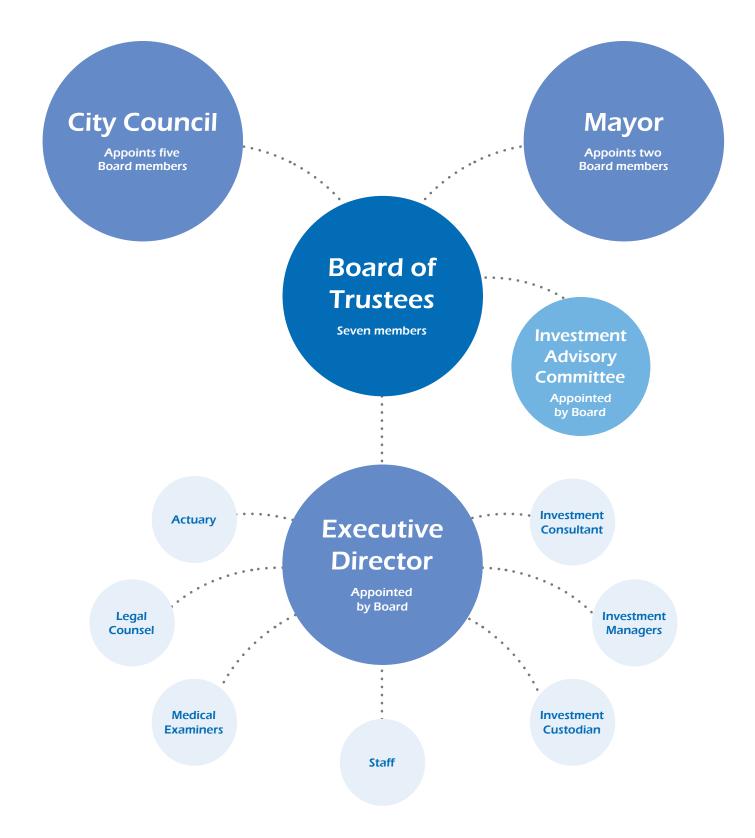
# Acknowledgments

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 continued support of the Richmond Retirement System.

Respectfully submitted,

Leo F. Griffin, CPA Executive Director

# Organizational Chart



# Board of Trustees



#### David H. Naoroz Chairman

Lieutenant Police Department City of Richmond



#### Kevin W. Davenport Vice Chairman

Vice President of Administration & Finance and CFO Virginia State University



### Jess T. Ellington

Chief Investment Officer & Senior Vice President Atlantic Union Bankshares Corporation



#### Elizabeth Cabell Jennings, CFA, CAIA, CIMA®

Senior Vice President & Regional Practice Leader Foundations and Endowments Specialty Practice SunTrust Bank



# **Treseat Frederick**

Management Analyst Police Department City of Richmond



#### **Michael Williams**

Senior Wealth Advisor & Senior Vice President South State Bank

The Board of Trustees consists of seven members. The City Council, through its Government Operations Committee, elected to leave one Board seat vacant at June 30, 2020.

# Executive Director



Leo F. Griffin, CPA Executive Director Richmond Retirement System

# Investment Advisory Committee

The Board of Trustees has established an Investment Advisory Committee (IAC) to provide recommendations to the Board on investments and investment policy. Members of the IAC serve at the pleasure of the Board of Trustees.

The IAC meets quarterly and consists of five to seven members of which at least two are current members of the Board. The remainder of the IAC are persons who are not otherwise affiliated with RRS and who have demonstrated skill and expertise in institutional investments.

IAC members who are not members of the Board of Trustees serve up to two consecutive three-year terms for a total of six years. IAC members who also serve on the Board of Trustees have IAC terms that match their two consecutive three-year Board terms.

A list of IAC members can be found at: www.richmondgov.com/retirement

# Investment Managers and Other Service Providers\*

# **Investment Managers**

#### **Domestic Equity**

Brown Investment Advisory Baltimore, MD LSV Asset Management Chicago, IL Northern Trust Investments Chicago, IL Sycamore Capital Cincinnati, OH William Blair & Company, LLC Chicago, IL

#### Non-U.S. Equity

Acadian Asset Management, Inc. Boston, MA Allianz Global Investors LLC New York, NY Axiom International Investors, LLC Greenwich, CT

#### Fixed Income

Loomis, Sayles & Co., L.P. Boston, MA PGIM Fixed Income Newark, NJ

#### **Diversifying Assets**

Blackstone Alternative Asset Management Associates, LLC New York, NY Graham Capital Management, LP Rowayton, CT Pharo Management, LLC New York, NY Rimrock Capital Management, LLC Irvine, CA

### **Private Equity**

Clayton, Dubilier & Rice New York, NY Coller Capital London, UK Lexington Partners, Inc. Boston, MA PA Capital , LLC Richmond, VA StepStone Group, LLC San Diego, CA

### Private Debt

Alcentra Ltd. London, UK Audax Group, L.P. Boston, MA CarVal Investors Hopkins, MN EIG Global Energy Partners Washington, D.C. Park Square Capital, LLP London, UK Sixth Street Partners, L.P. San Francisco, CA

#### Real Estate

CenterSquare Investment Management Plymouth Meeting, PA J.P. Morgan Asset Management New York, NY Oaktree Capital Management Los Angeles, CA Orion Capital Managers London, UK

# **Other Service Providers**

#### Actuary

SageView Consulting Group, LLC Glen Allen, VA

Auditor

Moss Adams LLP Albuquerque, NM

Investment Consultant

Callan, LLC San Francisco, CA

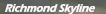
#### Legal Counsel

K&L Gates LLP Seattle, WA Troutman Pepper LLP Richmond, VA

#### Master Custodian

State Street Corporation Kansas City, MO

\*The Investment Section, beginning on page 40, provides detailed information regarding investment performance, asset allocation, investment management fees and expenses, and an investment summary. The Schedule of Fees on page 47 provides detailed information regarding investment management fees and expenses.



# **Financial Section**

The RRS administers retirement benefit plans for its active members, retirees, and beneficiaries. The purpose of the financial section is to present the plan's financial condition for the fiscal year. 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 Auditors Management's Discussion and Analysis 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 Auditors



To the Board of Trustees Richmond Retirement System Richmond, Virginia

# **Report on the Financial Statements**

We have audited the accompanying financial statements of Richmond Retirement System (the System), a component unit of the City of Richmond, Virginia, which comprise the statements of fiduciary net position as of June 30, 2020 and 2019, the related statements of changes in fiduciary net position for the years then ended, and the related notes to the financial statements.

# 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 these 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 financial position of the System as of June 30, 2020 and 2019, and the respective change in fiduciary net position for the years then ended in accordance with accounting principles generally accepted in the United States of America.

continued on next page

# Other Matter

# Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the accompanying management's discussion and analysis, schedule of changes in the employer's net pension liability and related ratios, schedule of employer's contributions, schedule of investment returns, and notes to the schedules 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'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.

# Supplementary 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 schedule of administrative expenses, schedule of investment expenses, schedule of payments to investment consultant, and schedule of retirement benefits (collectively, the supplementary information) are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The supplementary information is the responsibility of management and was derived from and relates 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 themselves, 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 supplementary information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

# Other Information

The introductory, investment, actuarial, and statistical sections are presented for purposes of additional analysis and are not a required part of the basic financial statements of the System. Such additional information has 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 it.

Mess adams LLP

Albuquerque, New Mexico October 15, 2020 except for consideration of Supplementary and Other Information as to which the date is October 28, 2020

# Management's Discussion and Analysis

This section presents management's discussion and analysis of the Richmond Retirement System's (RRS, System, or Plan) financial performance during the fiscal year ended June 30, 2020. Please read it in conjunction with the accompanying financial statements and the related notes.

This report is prepared in accordance with the principles of governmental accounting and reporting promulgated by the Governmental Accounting Standards Board (GASB). Investments are stated at fair market value or net asset value and income includes the recognition of unrealized gains or losses. The accrual basis of accounting is used to record assets, liabilities, revenues, and expenses. Revenue recognition occurs when earned without regard to the date of collection. Expense recognition occurs when the corresponding liabilities are incurred, regardless of payment date. For ease of reading, the dollar amounts that appear in this narrative are typically rounded to the closest one thousand dollars.

# The financial section contains the following information:

# 1. Basic Financial Statements including:

- a) Statements of fiduciary net position
- b) Statements of changes in fiduciary net position
- c) Notes to financial statements

# 2. Required Supplementary Information including:

- a) Management's discussion and analysis
- b) Schedule of changes in the employers' net pension liability and related ratios
- c) Schedule of employers' contributions
- d) Notes to the schedules
- e) Schedule of investment returns

# 3. Additional Information including:

- a) Schedule of administrative expenses
- b) Schedule of investment expenses

The basic financial statements are described as follows:

- The statement of fiduciary net position shows the account balances at year end and includes the net position restricted for pensions. The Plan's net position is restricted to the payment as shown in the schedule of changes in the employers' net pension liability and related ratios.
- The statement of changes in fiduciary net position shows the sources and uses of funds during the year corresponding to the change in net position from the previous year.
- The notes to the financial statements are an integral part of the financial statements and include additional detailed information and schedules to provide a better understanding of the financial statements.

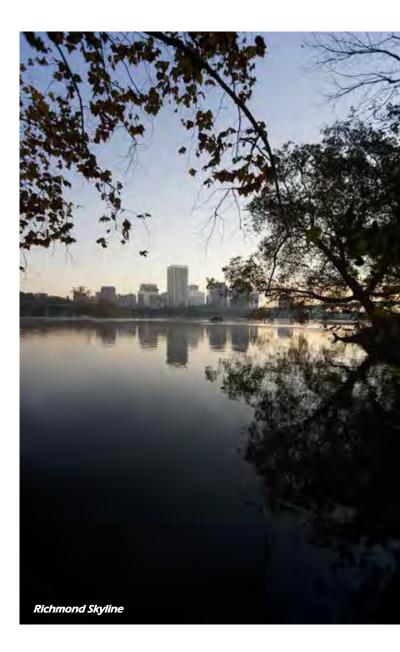
The required supplementary information provides historical data and projected obligations that reflect the long-term nature of the Plan and trends over time.

- Schedule of changes in the employers' net pension liability and related ratios contains the items contributing to the changes in the pension liability and the Plan's net position. Ratios comparing the Plan's net position to the pension liability and the net pension liability to covered-employee payroll are also provided.
- Schedule of employers' contributions contains a history of employer contributions made to the Plan.
- Schedule of investment returns contains a history of the Plan's investment performance on a money-weighted basis.

# **Financial Highlights**

- The System's net position decreased by \$7.2 million and increased by \$3.5 million during the years ended June 30, 2020 and 2019, respectively. Investments returned 2.1% (all returns are shown net-of-fees) for the year ended 2020 and 4.2% in 2019. In the year ended June 30, 2020, the S&P 500 Index rose 7.5% while small cap stocks, as represented by the Russell 2000 Index, were plagued by economic uncertainty and fell by negative 6.6%. As massive monetary and fiscal intervention by governments unfolded, U.S. equity markets bounced back from March pandemic lows. Growth sectors fueled the advance with select names in the information technology sector benefiting from the COVID-19 stay-at-home environment. International markets trailed the U.S. equity market and returned modest negative returns. U.S. Treasuries rallied as investors sought safety and the yield curve steepened as the Fed cut rates. The Bloomberg Barclays Aggregate Bond Index rose 8.7% for the year ended June 30, 2020.
- Total additions to net position were \$67.0 million in 2020, compared to \$75.6 million in the prior year. For 2020, revenue includes member and employer contributions of \$57.2 million and net investment income of \$9.7 million. Member and employer contributions increased by \$6.7 million in 2020 compared to a \$2.0 million increase in 2019.
- The Plan is closed to general employee membership and has a declining general employee membership payroll. Net investment income, which fluctuates yearto-year depending on market conditions, was \$15.4 million less in 2020 than in 2019. During 2020, private equity was the top investment performer; however, RRS had only modest investments in that category. Fixed income was the next-best performer followed by U.S. equities. Within U.S. equites, growth managers outpaced their value counterparts by historic margins. Non-U.S. equities, along with diversifying assets, real estate and private debt, posted declines.

• Total plan expenses in 2020 were \$74.1 million, a \$2.1 million increase from 2019. Total expenses are primarily driven by pension benefit payments, which comprise 98% of total expenses. For the years ended June 30, 2020 and 2019, retiree benefits increased by \$2.2 million and \$837 thousand, respectively.



# Financial Statements and Analysis

# Summary of Financial Statements:

The table below provides a summary of the financial statements as of and for the year ended June 30:

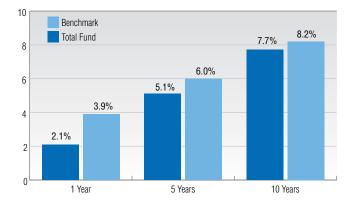
Activity for the Fiscal Year Ended June 30	2020	2019	2018
Total Assets	\$ 583,021,332	\$ 598,422,666	\$ 594,012,689
Total Liabilities	(17,565,071)	(25,787,561)	(24,927,379)
Net Position	565,456,261	572,635,105	569,085,310
Contributions	57,220,651	50,475,517	48,511,853
Net Investment Earnings	9,749,141	25,100,251	38,843,025
Total Additions	66,969,792	75,575,768	87,354,878
Benefits Payments	72,813,126	70,748,768	69,773,981
Administrative Expenses	1,335,510	1,277,205	1,208,148
Total Deductions	74,148,636	72,025,973	70,982,129
Total Additions	66,969,792	75,575,768	87,354,878
Total Deductions	(74,148,636)	(72,025,973)	(70,982,129)
Net Change	\$ (7,178,844)	\$ 3,549,795	\$ 16,372,749
Contribution Rates			
General	53.46%	50.03%	46.51%
Police/Fire	41.66%	41.02%	40.56%

# Revenues – Additions to Net Plan Position

- Total employer and member contributions increased by 13.4% in 2020 and increased by 4.0% in 2019. In 2020, the city contributed \$5.3 million for an ad-hoc COLA plus an additional contribution of \$1.7 million above the Actuarial Determined Contribution (ADC). In 2019, the city contributed an additional \$2.0 million above the ADC. During 2020, the employer's contribution rate was 53.46% for general employees and 41.66% for police and fire. In 2019, the employees and 41.02% for police and fire. Member contribution rates vary depending on the benefit selected; the majority of general members contributed 1.0% in both years while the majority of police and firefighters contributed 1.5% in both years.
- The total net investment gain was \$9.7 million in 2020 compared to \$25.1 million in 2019. In 2020, the portfolio returned 2.1% underperforming its benchmark by 1.8%, whereas in 2019 the portfolio returned 4.2% and underperformed its benchmark by 2.5%. The speed and depth of the COVID-19 coronavirus pandemic that occurred in the latter half of fiscal year 2020 induced economic disruption that was unprecedented. The U.S. economy suffered its

sharpest contraction in more than 70 years of record-keeping and was pushed rapidly into a recession. The unemployment rate skyrocketed to 14.7%, businesses closed and people stopped traveling and stayed home. All of these events negatively impacted consumer and business spending.

• As a result, the investment portfolio incurred a sharp drop in market value during the quarter ended March 31, 2020. Coming into that quarter, the portfolio was producing positive alpha by outperforming its benchmark. However, by the end of the fiscal year the pandemic disrupted the portfolio and it ended the year below its benchmark. Differences between the portfolio's actual and target asset allocation served as the primary detractor to underperformance while manager performance played a smaller role. Investment returns were below the System's benchmark for most time periods as the recent steep downdraft weighed on longer term results. Following extensive strategic analysis, RRS implemented a significant restructuring of its investment portfolio in the latter half of 2020 repositioning it for the future. Further investment data can be found in the Investment Section of this report beginning on page 40.



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

As of June 30, 2020

*RRS uses a time-weighted performance calculation. Time period returns are determined by geometrically linking the holding period returns.* 



# Expenses — Deductions from Net Plan Assets

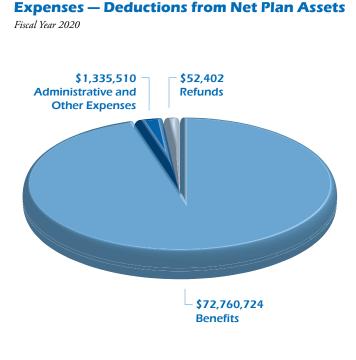
- Retiree benefits paid increased by \$2.2 million (3.1%) in 2020 and increased by \$837 thousand (1.2%) in 2019. The number of retirees and beneficiaries increased by 27 members in 2020 and decreased by 18 in 2019. The sharp increase in benefits paid in 2020 is attributable to a 1% ad-hoc COLA granted mid-year and a Voluntary Retirement Incentive Program (VRIP) introduced by City Council.
- Refunds of contributions decreased by \$152 thousand (74.3%) in 2020 compared to an increase of \$137 thousand (206.3%) in 2019. Lump sum withdrawals from the Plan fluctuate from year to year based on the number of non-vested participants that leave the System and the average size of withdrawal.
- Net administrative expenses include salaries and benefits for the RRS staff, along with other costs associated with administering the Plan and are shown on the Schedule of Administrative Expenses on page 38. Administrative expenses increased by \$58 thousand or 4.8% in 2020 and increased by \$69 thousand or 6.0% in 2019. In 2020, salaries and benefits, along with a sharp increase in the city technology allocation, contributed to the increase in administrative expenses. In 2019, salaries and benefits primarily contributed to the increase in administrative expenses. Staff and the Board continue to be diligent about Plan operating expenses.

# Notes to the Financial Statements

The notes to the financial statements are an integral part of this financial report and provide additional information essential for a full understanding of RRS's financial statements.

# **Funded Status**

The funded status is the ratio of the fair value of plan assets to the actuarial liability, or pension obligation. In accordance with Governmental Accounting Standards Board Statment No. 67, the funded status is determined using the Fiduciary Net Position (market value of assets) and the Total Plan Liability (Entry Age actuarial cost method).



An increase in the funded status over time usually indicates a plan is gaining financial strength. However, a decrease in the funded status will not necessarily indicate a plan is in financial decline. Changes in actuarial assumptions and performance of financial markets can significantly impact the funded status.

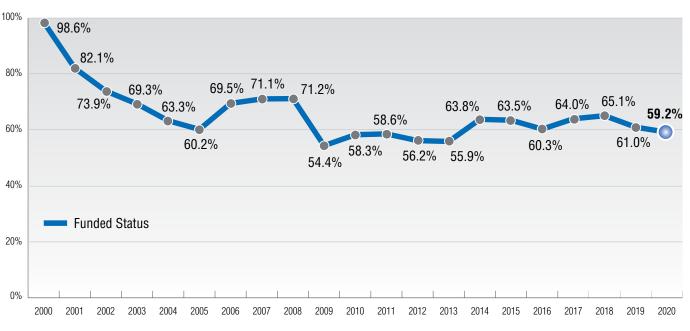
The primary concern to most pension plan participants is whether there will be enough money available to pay benefits. The City of Richmond has traditionally contributed the actuarially determined contribution (ADC) as determined by the RRS's actuary. City Code requires that contributions to the RRS consist of a normal contribution plus an accrued liability contribution, which combined equal the ADC.

During 2020, the funded status fell from 61.0% in the prior year to 59.2%. Factors that contributed to the decrease in the 2020 funded status include investment performance that fell short of the assumed rate of return

and the VRIP. The 2020 VRIP added \$9.7 million to the actuarial liability and decreased the funded status by 0.6%. This is the second VRIP, in six years, initiated by the City of Richmond. Over time, the benefit structure of the plan, coupled with contributions and investment returns, are primary drivers of the funded status.

# **Retiree Benefit Adjustment**

During 2020, the City Council granted a 1% ad-hoc retiree COLA, which was funded by a \$5.3 million employer contribution resulting in no impact to the funded status. This was the first ad-hoc retiree COLA approved by the City Council since 2008.



### Schedule of Funding Status As of June 30, 2020

The funded status from 2000 to 2013 is calculated using methodology prior to the implementation of GASB 67.

# Statement of Fiduciary Net Position

# **Defined Benefit Pension Trust Fund**

As of June 30,

Assets	2020	2019
Cash and Short-Term Investments (Note II)	\$7,081,202	\$11,529,423
Receivables		
Receivables for Security Transactions	135,314	5,259,719
Employer Contributions	1,444,155	1,011,405
Interest and Dividends	94,958	225,206
Other Receivables	4,052	5,292
Total Receivables	1,678,479	6,501,622
Investments, at Fair Value (Note II)		
U.S Equities	151,359,553	148,159,251
International Equities	97,784,185	100,842,560
Fixed Income	176,918,106	131,439,209
Real Estate	33,911,739	35,364,309
Diversifying Assets	59,991,630	101,430,015
Private Debt	39,073,576	44,711,194
Private Equity	14,232,905	15,918,692
Total Investments	573,271,694	577,865,230
Net Cash Collateral Received Under Securities Lending Program	689,549	2,165,902
Net Cash Collateral Received Under Securities Lending Program Capital Assets	689,549	2,165,902
	<b>689,549</b> 127,215	<b>2,165,902</b> 152,657
Capital Assets		
Capital Assets Net Furniture, Fixtures and Equipment	127,215	152,657
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement	127,215 173,193	152,657 207,832
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement Total Net Capital Assets	127,215 173,193 <b>300,408</b>	152,657 
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement Total Net Capital Assets Total Assets	127,215 173,193 <b>300,408</b>	152,657 207,832 <b>360,489</b>
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement Total Net Capital Assets Liabilities	127,215 173,193 <b>300,408</b> <b>583,021,332</b>	152,657 207,832 <b>360,489</b> <b>598,422,666</b> 11,482,670
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement Total Net Capital Assets Total Assets Liabilities DROP Payable	127,215 173,193 <b>300,408</b> <b>583,021,332</b> 14,054,879	152,657 207,832 <b>360,489</b> <b>598,422,660</b> 11,482,670 9,499,135
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement Total Net Capital Assets Total Assets Liabilities DROP Payable Payable for Security Transactions	127,215 173,193 <b>300,408</b> <b>583,021,332</b> 14,054,879 59,801	152,657 207,832 <b>360,489</b> <b>598,422,666</b>
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement Total Net Capital Assets Total Assets Liabilities DROP Payable Payable for Security Transactions Accounts Payable and Accrued Expenses	127,215 173,193 <b>300,408</b> <b>583,021,332</b> 14,054,879 59,801 1,899,465	152,657 207,832 <b>360,489</b> <b>598,422,666</b> 11,482,670 9,499,135 1,769,584 613,000
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement Total Net Capital Assets Total Assets Liabilities DROP Payable Payable for Security Transactions Accounts Payable and Accrued Expenses Investment Expenses Payable	127,215 173,193 <b>300,408</b> <b>583,021,332</b> 14,054,879 59,801 1,899,465 572,495	152,657 207,832 <b>360,485</b> <b>598,422,666</b> 11,482,670 9,499,135 1,769,584 613,000 252,882
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement Total Net Capital Assets Total Assets Liabilities DROP Payable Payable for Security Transactions Accounts Payable and Accrued Expenses Investment Expenses Payable Retirement and Death Benefits Payable	127,215 173,193 <b>300,408</b> <b>583,021,332</b> 14,054,879 59,801 1,899,465 572,495 283,809	152,657 207,832 <b>360,489</b> <b>598,422,666</b> 11,482,670 9,499,135 1,769,584 613,000 252,882 <b>23,617,271</b>
Capital Assets Net Furniture, Fixtures and Equipment Net Leasehold Improvement Total Net Capital Assets Total Assets Liabilities DROP Payable Payable for Security Transactions Accounts Payable and Accrued Expenses Investment Expenses Payable Retirement and Death Benefits Payable Total Accounts Payable	127,215 173,193 <b>300,408</b> <b>583,021,332</b> 14,054,879 59,801 1,899,465 572,495 283,809 <b>16,870,449</b>	152,657 207,832 <b>360,489</b> <b>598,422,666</b> 11,482,670 9,499,135 1,769,584

The accompanying Notes to Financial Statements, which begin on page 22, are an integral part of this statement.

# Statement of Changes in Fiduciary Net Position

# **Defined Benefit Pension Trust Fund**

**Additions** 2020 2019 City of Richmond (Note V) \$47,439,885 \$53,968,427 Richmond Behavioral Health Authority 1,090,640 1,028,522 Other 181,354 71,240 **Total Employer Contributions** 55,240,421 48,539,647 **Total Member Contributions** 1,980,230 1,935,870 Total Contributions 57,220,651 50,475,517 **Investment Income** Net Increase in Fair Value of Investments (Note II) 9,011,943 23,703,925 Dividends 2,362,350 2,794,041 Interest 541,717 853,437 Total Investment Income before Investment Expenses 11,916,010 27,351,403 Investment Expenses (2, 178, 492)(2,257,533) Net Investment Income 9,737,518 25,093,870 **Security Lending Income** 38,447 48,772 Gross Income (26,824) Less Borrower Rebates, Agent Fees, Appreciation/Depreciation (42,391) Net Security Lending Income 11,623 6,381 Total Net Investment Gain 9,749,141 25,100,251 Total Additions 66,969,792 75,575,768 **Deductions Retirement Benefits** (72, 760, 724)(70, 544, 766)**Refunds of Member Contributions** (204,002)(52, 402)Administrative Expenses (1,275,428)(1, 217, 123)Depreciation Expense (60,082)(60,082)**Total Deductions** (74,148,636) (72,025,973) Net (Decrease) Increase (7,178,844) 3,549,795 **Net Position Restricted for Pensions** Beginning of Year 572,635,105 569,085,310 End of Year \$ 565,456,261 \$572,635,105

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

Year ended June 30,

# Notes to Financial Statements

# I. Summary of Significant Financial Policies

# (A) Financial Reporting Entity

The Richmond Retirement System (RRS) is a component unit of the City of Richmond (the City), 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 (the Board), which administers the retirement program according to the requirements of the Code of the City of Richmond, and other governing law. 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. State Street Corporation is the custodian of designated assets of the RRS.

The provisions of Chapter 22 of the Code of the City of Richmond govern the actual operations of the RRS.

The Board of Trustees also has oversight of two Defined Contribution plans. The 401(a) Plan was established for employees who were hired or rehired on or after July 1, 2006. The 457 Plan is optional and allows employees to save for retirement by deferring a percentage of their pay on a pretax basis. The Defined Contribution Plans' financial transactions are not recorded in the RRS's accounting system. Therefore, these programs are not included in the RRS's financial statements. Additional information about the 401(a) Defined Contribution Plan is provided in the statistical section of this report.

# (C) Accounting Basis

The 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 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.

# (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.

# Receivables for Security Transactions

Receivables from Security Transactions consist of foreign currency and investment security sales that have occurred but are pending the final settlement. The System recognizes these transactions when they occur.

# Payable for Security Transactions

Payable from Security Transactions consist of foreign currency and investment security purchases that have occurred but are pending the final settlement. The System recognizes these transactions when the obligation occurs.

# II. Deposits and Investments

# (A) Deposits

On June 30, 2020 and 2019, the carrying amount of the RRS's deposits with financial institutions were \$1,020,857 and \$2,406,127, respectively; the bank's reporting balances were \$1,814,576 and \$2,818,143, respectively. All funds deposited in banks are protected under the provisions of the Virginia Securities for Public Deposit Act (the Act).

# (B) Securities Lending Program

The RRS lends securities to firms on a temporary basis through its custodian bank, State Street Corporation (Custodian) to approved borrowers. During the fiscal year, the Custodian acted as an agent of the RRS and received cash or other collateral, including securities issued or guaranteed by the United States government, for the securities lent.

Borrowers were required to deliver collateral for each loan in amounts equal to at least 100% of the fair 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 maintained 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 taxexempt plan lenders, in a collective investment pool. 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. For the year ended June 30, 2020, the average duration of the short-term investments in the duration pool, which includes securities with a remaining maturity of 91 days or greater, was 18 days with weighted-average maturity of 1,603 days. The average duration of the short-term investments in the liquidity pool, which primarily includes securities with the remaining maturity ranging from 1 to 170 days, was 27 with weighted-average maturity of 70 days.

For the year ended June 30, 2019, the average duration of the short-term investments in the duration pool, which includes securities with a remaining maturity of 91 days or greater, was 1,697 days with weighted average maturity of 20 days. The average duration of the short-term investments in the liquidity pool, which primarily includes securities with the remaining maturity ranging from 3 to 84 days, was 105 days with weighted average maturity of 23 days.

The following table shows the fair value measurements of the securities lent, cash collateral received, and the reinvested cash collateral.

Securities Lent	Fair Value of Underlying Securities Lent	Cash Collateral Received	Collateral Reinvestment Value
at June 30, 2020			
U.S. Corporate Bonds & Equities	\$685,955	\$694,622	\$689,549
at June 30, 2019			
U.S. Government	\$1,208,944	\$1,233,250	\$1,230,756
U.S. Corporate Bonds & Equities	920,484	937,040	935,146
Total	\$2,129,428	\$2,170,290	\$2,165,902

RRS also holds securities collateral that cannot be pledged or sold absent a borrower's default totaling \$144,089 and \$688,902 as of June 30, 2020 and 2019, respectively. RRS exited the securities lending program in August of 2020.

# (C) 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 diversifying assets. 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. At June 30, 2020 and 2019, total unfunded commitments amounted to \$35.7 million and \$37.6 million, respectively.

# 2. Asset Allocation

The Board of Trustees has adopted the asset allocation policy. To ensure compliance with the policy, a rebalancing strategy is used.

### 3. Fair Value Measurements

The RRS categorizes the fair value measures of its assets within the fair value hierarchy established by generally accepted accounting principles outlined in GASB 72. The RRS has the following fair value measurements as of June 30, 2020 and 2019:

Level 1 investments are valued at active market quoted prices. Level 2 fixed income investments are valued using a pricing model that utilizes observed market inputs in determining the fair value as well as matrix yield curves. Level 3 investments are valued by market assumptions

as of June 30, 2020	Fair Value at June 30, 2020	Quoted Prices in Active Markets (Level 1)	Significant Observa Inputs (Lev	ble	Signifi Unobse Inputs (L	rvable
U.S. Equities		·				
Consumer Spending	\$7,889,658	\$7,889,658	\$	-	\$	-
Energy and Industrials	5,878,703	5,878,703		-		-
Information Technology	9,695,201	9,695,201		-		-
Financials	10,368,876	10,368,876		-		-
Health Care	7,827,774	7,827,774		-		-
Other	3,863,038	3,863,038		-		
Total U.S. Equities	45,523,250	45,523,250		-		-
International Equities	605,573	605,573		-		-
Real Estate	7,576,532	5,975,512		-	1,60	1,020
Diversifying Assets	37,082,355	-		-	37,08	32,355
Private Debt	39,073,576	-		-		3,576
Private Equity	14,232,905	-		-	14,23	32,905
	144,094,191	\$52,104,335		_	\$91,98	9,856
Investments Measured at NAV Practic	al Expedient					
U.S. Equities	105,836,303					
International Equities	97,178,612					
Fixed Income	176,918,106					
Real Estate	26,335,207					
Diversifying Assets	22,909,275					
Total Investments Measured at NAV	429,177,503					
Total Investments at Fair Value	\$573,271,694					

#### **Investments Measured at Fair Value**

# **Investments Measured at Fair Value**

as of June 30, 2019

		(Level 1)	Inputs (Level 2)	Inputs (Level 3)
U.S. Equities				
Consumer Spending	\$3,216,573	\$3,216,573	\$ -	\$ -
Energy and Industrials	4,632,534	4,632,534	-	-
Information Technology	2,850,666	2,850,666	-	-
Financials	5,623,434	5,623,434	-	-
Health Care	2,598,298	2,598,298	-	-
Other	2,667,028	2,667,028		
Total U.S. Equities	21,588,533	21,588,533	-	-
Fixed Income				
Corporate Bonds	17,426,201	13,671,838	3,754,363	-
Mortgage-Backed Securities	5,502,412	-	5,502,412	-
U.S. Treasury Obligations	4,759,219	4,759,219	-	-
Global Fixed Income	7,947,829	4,007,227	3,940,602	<u> </u>
Total Fixed Income	35,635,661	22,438,284	13,197,377	-
Real Estate	8,252,322	6,131,966	-	2,120,356
Diversifying Assets	52,809,451	-	-	52,809,451
Private Debt	44,711,194	-	-	44,711,194
Private Equity	15,918,692			15,918,692
	178,915,853	\$50,158,783	\$13,197,377	\$115,559,693
Investments Measured at NAV Practical	Expedient			
U.S. Equities	126,570,718			
International Equities	100,842,560			
Fixed Income	95,803,548			
Real Estate	27,111,987			
Diversifying Assets	48,620,564			
Total Investments Measured at NAV	398,949,377			
Total Investments at Fair Value	\$577,865,230			

# **Investments Measured at NAV Practical Expedient**

as of June 30, 2020 and 2019

	Fair Value June 30, 2020	Fair Value June 30, 2019	Redemption Frequency	Required Redemption Notice
U.S. Equities	\$105,836,303	\$126,570,718	Daily	3 - 5 days
International Equities	97,178,612	100,842,560	Daily	1 - 30 days
Fixed Income	176,918,106	95,803,548	Daily	1 - 10 days
Real Estate	26,335,207	27,111,987	Quarterly	45 Days
Diversifying Assets	22,909,275	48,620,564	Daily, Quarterly	1 - 95 days
Total Investments Measured at NAV Practical Expedient	\$429,177,503	\$398,949,377		

that are based on unobservable inputs. Fair value measurements for investments valued using the net asset value practical expedient (NAV practical expedient) are excluded from the fair value hierarchy in accordance with GASB No. 72.

**U.S. Equities** — Shares held in common stock are classified in Level 1 of the fair value hierarchy and valued using price quotes on active markets for those securities. Units held in commingled funds and mutual funds are valued using the NAV practical expedient of the fund as reported by the investment managers. The NAV practical expedient is based on the fair value of the underlying assets owned by the fund, minus its liabilities, and then divided by the number of units outstanding.

**International Equities** — International Equities include units in commingled funds that hold investments in securities of international issuers and emerging markets. Units held in certain funds are classified in Level 1 of the fair hierarchy using price quotes on active markets and other funds are valued using the NAV practical expedient as reported by the investment managers.

Fixed Income — Fixed income securities include investments in domestic and international corporate bonds, U.S. Treasury obligations, mortgage-backed securities issued by federal agencies and collateralized mortgage obligations, and domestic and international mutual funds with underlying investments in fixed income securities. Investments in corporate bonds, mutual funds, and U.S. Treasury obligations are classified in Level 1 of the fair value hierarchy and valued using prices quoted on active markets for those securities. Investments in mortgage-backed securities and other fixed income investments are valued using pricing models maximizing the use of observable inputs for similar securities which includes basing value on yields currently available on comparable securities of issuers with similar credit ratings and are classified in level 2 of the fair value hierarchy. Units held in commingled funds are valued using the NAV practical expedient of the commingled fund as reported by the investment managers.

**Real Estate** — This category includes investments in real estate investment trusts (REITs) and real estate funds that invest in residential, office, retail, and industrial real

estate or debt related to real estate acquisitions. Investments in REITs are classified in Level 1 of the fair value hierarchy and valued using prices quoted on active markets for those securities. Units held in real estate funds are valued using the NAV practical expedient of the commingled fund as reported by the investment managers. Real estate funds that are not valued at NAV practical expedient include significant unobservable inputs and are classified in Level 3 of the fair value hierarchy.

**Diversifying Assets** — This category consists of investments in fund-of-funds and direct investments. Investment managers in the fund-of-funds category have the ability to invest in underlying managers that focus on a variety of different strategies such as long/short, eventdriven, leveraging, and other derivative instruments. The System's direct fund managers focus on a global macro approach. Units held in investments valued using the NAV practical expedient are excluded from the fair value hierarchy and reported at the NAV provided by the investment managers. Investments in limited partnerships that are not valued at NAV are classified in Level 3 of the fair value hierarchy.

**Private Debt and Private Equity** — Private debt includes investments in limited partnerships and portfolios focused on direct, distressed or mezzanine lending as governed by their respective investment agreements. Private equity includes limited partnerships and portfolios focused on small buyouts, secondary acquisitions, distressed companies, or sector focused investments. Investments in private debt and private equity represent partnership interests and capital investments valued as limited partnership ownership interests based on investment statements and other information provided by each investment manager. Investments in private debt and private equity are classified in Level 3 of the fair value hierarchy.

### 4. Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligation to the RRS. The RRS has an investment policy for credit risk. Fixed income investments should emphasize highquality 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 as of June 30, 2020 consists of commingled funds. As of June 30, 2020 and 2019, the credit quality and exposure levels are summarized in the table below.

Investment Type	Credit Rating Level	2020	2019
Fixed Income			
Corporate Bonds	AAA	\$ -	\$ 79,362
	AA+:AA-	-	958,548
	A+:A-	-	1,042,175
	BBB+:BBB-	-	8,572,070
	BB+:BB-	-	383,312
	NR	-	126,836
		-	11,162,303
Mortgage Backed	AAA	-	523,693
	AA+:AA-	-	395,507
	B+:B-	-	225,360
	CCC	-	59,317
	NR	-	1,281,081
		-	2,484,958
U.S. Treasuries	NR	-	10,261,631
Commingled funds	NR	176,918,106	101,203,962
Other	NR		6,326,355
Total Fixed Income		\$176,918,106	\$131,439,209

#### **Credit Quality Fixed Income Securities** *as of June 30, 2020 and 2019*

Ratings from Standard & Poor's were used for the preparation of this chart.

### **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 issuer 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.

### 5. 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. As of June 30, 2020, the RRS's fixed income portfolio consists of commingled funds only and they mature in 1-5 years. The table at the top of page 29 summarizes the RRS's interest rate exposure at June 30, 2019.

### 6. Foreign Currency Risk

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment. The System invests in mutual funds, commingled funds, pooled funds, and has separately managed portfolios that invest in foreign securities; at June 30, 2020 and 2019, the total fair value of these investments were \$97.8 and \$205 million, respectively.

At June 30, 2020 and 2019, the RRS had \$2.6 million and \$3.1 million of foreign currency holdings in its portfolio, respectively. The Board monitors foreign currency risk in accordance with the RRS investment policy.

# **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 condition.

# **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 single-employer Defined Benefit Plan. The RRS has one participating employer, the City of Rich-

mond, including its component unit Richmond Behavioral Health Authority. The plan covers all full-time permanent sworn public safety employees and a select group of Senior Executives as outlined in Chapter 22 of the City of Richmond Municipal Code. The plan is closed to general employees, hired on or after July 1, 2006. 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. The following table demonstrates the changes in retirees and beneficiaries during the fiscal years ended June 30, 2020 and 2019.

### **Plan Membership**

	For the Fiscal Year ended:			
	2020	2019	Increase/ (Decrease)	Percent Change
Active Vested DB Plan Members	1,333	1,448	(115)	-7.9%
Active Non-vested DB Plan Members	254	283	(29)	-10.2%
Terminated Vested DB Plan Members	1,545	1,567	(22)	-1.4%
Retirees & Beneficiaries	4,327	4,300	27	0.6%
Total:	7,459	7,598	(139)	-1.8%

# A) Summary of Benefit and Contribution Provisions

Outlined on the following pages is a summary of the main provisions of the plan, set by Chapter 22 of the Code of the City of Richmond.

# 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.

# 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 1.0% and 1.5% respectively, of their creditable compensation.

# 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. This plan is optional for public safety officers and senior executives.

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 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 levels for both options is set by the formulas, regardless of the fund's investment performance. Participating entities contribute an amount each year that varies according to calculations by the actuary. The participating entities' contributions are invested by outside investment firms with the primary objective of ensuring

Investment Type	Total Fair Value	1-5	5-10	10-30	>30
U.S. Fixed Income					
Corporate	\$8,864,776	\$1,679,717	\$4,234,588	\$2,950,471	\$ -
Mortgage-backed securities	2,484,959	-	-	2,484,959	-
U.S. Treasuries	10,261,631	3,520,741	658,443	2,219,351	3,863,096
Other	6,076,466	4,807,062	127,504	703,045	438,855
Total U.S Fixed Income	\$27,687,832	\$10,007,520	\$5,020,535	\$8,357,826	\$4,301,951
Global Fixed Income					
Corporate Bonds	\$2,297,525	\$1,022,813	\$681,680	\$593,032	\$ -
Asset Backed	249,889	249,889	-	-	-
Commingled Funds	101,203,963	101,203,963	-	-	-
Total Global Fixed Income	\$103,751,377	\$102,476,665	\$681,680	\$593,032	\$-
Total Fixed Income	\$131,439,209	\$112,484,185	\$5,702,215	\$8,950,858	\$4,301,951

### Effective Maturities of Fixed Income Securities by Investment Type as of June 30, 2019

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.

# 3. Deferred Retirement Option Program (DROP):

Effective October 1, 2003, the DROP was implemented for public safety employees eligible for an unreduced retirement allowance. Effective July 1, 2015, eligible members may elect to participate for a maximum of six years, deferring receipt of unreduced retirement benefits while continuing employment with the City.

Upon a member's election to participate in the DROP, the amount of creditable service and the average final compensation become 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.

Each DROP participant's monthly pension is tracked by an individual 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 fiscal years ended June 30, 2020 and 2019, the DROP liability was \$14,054,879 and \$11,482,670, respectively.

# 4. 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, any age with 30 years of creditable service (general employees), 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).

# 5. 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 follows: for general employees, the benefit is reduced by five-twelfths 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 five-twelfths 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 22-202(5) for the number of months equivalent to the lump-sum award amount divided by the amount of the original Workers' Compensation award.

# 6. 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 level total retirement income before and after age 65, taking into account the primary federal Social Security benefits.

# d) Level Option:

This payment option provides a leveled monthly benefit for the member's lifetime, which is less than the Basic Benefit before age 65 amount and greater than the Basic Benefit after age 65 amount. This option is available to current public safety employees and to former vested general employees who terminated service prior to March 1, 1997.

# 7. Disability Retirement Eligibility:

Any member in service who has five 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 employer, 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.

# 8. 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 five-twelfths of 1% per month early retirement 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 two-thirds 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 five-twelfths of 1% per month early retirement reduction is not imposed. The additional pre-age 65 allowance for public safety employees is not payable.

### 9. 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.

# 10. 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, provided that the member was hired on or before June 13, 1988.

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 compensation 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.

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

Ad-Hoc COLAs are issued at the discretion of City Council. Effective January 1, 2020, City Council approved a one time, 1% COLA for each member of the RRS who began receiving a retirement allowance on or before January 1, 2019.

# 12. 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).

# V. Contributions Required and Contributions Made

For fiscal years ended June 30, 2020 and 2019, the Entry Age Actuarial Cost Method was used in determining employer contribution rates, calculated by the RRS's actuaries. The annual contribution percentages include amortization of the unfunded actuarial liability. The employer contribution rates calculated for fiscal year ended June 30, 2020 were 41.66% for sworn public safety officers and 53.46% for general employees. The employer contributions rates calculated for fiscal year ending June 30, 2019 were 41.02% for sworn public safety officers and 50.03% for general employees. The City Code requires that contributions to the RRS consist of a normal contribution plus an accrued liability contribution, which, combined, equal the actuarially determined contribution.

Contributions totaling \$57,220,651, including \$1,980,230 in member contributions, were made from July 1, 2019 to June 30, 2020 in accordance with the actuarially determined contribution requirements stated above. Contributions made during the fiscal year ended June 30, 2019 were \$50,475,517, including \$1,935,870 in member contributions in accordance 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 equal to the sum of the "normal contribution" and the "actuarial liability contribution."

The actuarial liability contribution is the 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 ad hoc COLA increases, or actuarial gains or losses amortized over a closed period not to exceed 30 years.

# Net Pension Liability

The components of the Employer's net pension liability at June 30, 2020 and 2019 are as follows:

### **Components of Employers' Net Pension Liability**

	June 30,		
	2020	2019	
Total Pension Liability	\$954,585,395	\$938,077,477	
Plan Fiduciary Net Position	(565,456,261)	(572,635,105)	
Employer's Net Pension Liability	\$389,129,134	\$365,442,372	
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability (Funded Status)	59.2%	61.0%	

# Actuarial Assumptions

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) 7.0% investment rate of return for 2020 and 2019; (b) projected salary increases of 2.5% to 4.0% for general employees and for police and fire employees; and (c) the assumption that benefits will not increase after retirement. The most recent actuarial experience study was completed for the five years ended June 30, 2018.

# Long-Term Expected Rate of Return and Target Asset Allocation

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. The target asset allocation identifies the optimal asset mix strategy for the RRS. To ensure compliance with the policy, a rebalancing strategy is used. RRS is in the multiyear process of phasing in its asset allocation. Best estimates of geometric return for each major asset class included in the pension plan's target asset allocation as of June 30, 2020 are summarized in the table below.

Asset Class	<b>10-Year Assumptions</b> Geometric Return	Target Asset Allocation
Broad U.S. Equities	7.15%	23.00%
International Equities	7.25%	15.00%
Diversifying Assets	5.00%	6.00%
Private Equity	8.50%	11.00%
Fixed Income	2.75%	29.00%
Private Debt	5.90%	6.00%
Real Estate (Core)	6.25%	10.00%

# Annual Money-Weighted Rate of Return

For the fiscal years ended June 30, 2020 and 2019, the annual money-weighted rates of return were (1.0%) and 5.1%, respectively. 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 or were provided to the Investment Consultant by the RRS. The methodology used to determine the money weighted rate of return is different from the calculation of the fiscal year rate of return. Cash flows have a larger impact on the moneyweighted rate of return than the fiscal year rate of return, which uses a time-weighted calculation.

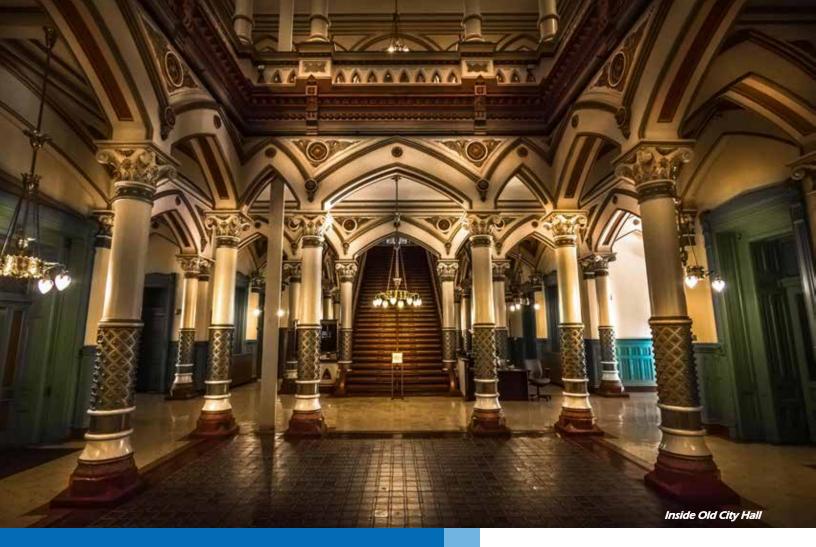
### **Discount Rate**

The discount rate used to measure the total pension liability was 7.0% as of June 30, 2020 and 2019. 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 the City, and its component unit, 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 along with the funded status of the system, calculated using the current discount rate of 7.0%, as well as using a discount rate that is one percentage point lower (6.0%) or one percentage point higher (8.0%) than the current rate:

	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
Net Pension Liability	\$479,004,460	\$389,129,134	\$311,640,456
Funded Status	54.1%	59.2%	64.5%



# Required Supplementary Information

Financial Section, continued

### In this section:

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

<b>Total Pension Liability</b>	2020	2019	2018	2017	2016	2015	2014
Service cost	\$12,194,183	\$10,690,477	\$10,306,295	\$10,254,351	\$10,452,587	\$9,471,988	\$10,648,531
Interest	63,160,066	63,004,086	62,230,250	61,563,762	61,275,821	61,557,532	62,395,219
Changes of Benefit Terms	15,042,109	-	-	-	-	-	8,705,940
Differences Between Expected and Actual Experience	(1,075,314)	(1,116,866)	8,033,833	6,602,613	1,284,630	(6,133,948)	1,651,751
Changes of Assumptions	-	61,459,185	-	-	-	-	(26,784,600)
Benefit Payments, Including Refunds of Member Contributions	(72,813,126)	(70,748,768)	(69,773,981)	(69,302,957)	(69,049,286)	(68,268,268)	(67,320,865)
Net Change in Total Pension Liability	16,507,918	63,288,114	10,796,397	9,117,769	3,963,752	(3,372,696)	(10,704,024)
Total Pension Liability – Beginning	938,077,477	874,789,363	863,992,966	854,875,197	850,911,445	854,284,141	864,988,165
Total Pension Liability – Ending (a)	\$954,585,395	\$938,077,477	\$874,789,363	\$863,992,966	\$854,875,197	\$850,911,445	\$854,284,141
<b>Plan Fiduciary Net Position</b>							
Contributions – Employer	\$55,240,421	\$48,539,647	\$46,548,902	\$42,911,076	\$44,926,043	\$46,684,500	\$42,342,620
Contributions – Member	1,980,230	1,935,870	1,962,951	2,150,631	1,976,022	2,347,163	2,118,493
Net Investment Income	9,749,141	25,100,251	38,843,025	62,841,319	(1,498,570)	15,641,333	76,463,285
Benefit Payments, Including Refunds of Member Contributions	(72,813,126)	(70,748,768)	(69,773,981)	(69,302,957)	(69,049,286)	(68,268,268)	(67,320,865)
Administrative Expense	(1,335,510)	(1,277,205)	(1,208,148)	(1,141,301)	(1,161,281)	(1,248,162)	(1,318,016)
Other							
Net Change in Plan Fiduciary Net Position	\$(7,178,844)	\$3,549,795	\$16,372,749	\$37,458,768	\$(24,807,072)	\$(4,843,434)	\$52,285,517
Plan Fiduciary Net Position – Beginning	572,635,105	569,085,310	552,712,561	515,253,793	540,060,865	544,904,299	492,618,782
Plan Fiduciary Net Position – Ending (b)	\$565,456,261	\$572,635,105	\$569,085,310	\$552,712,561	\$515,253,793	\$540,060,865	\$544,904,299
Employer's Net Pension Liability – Ending (a) - (b)	\$389,129,134	\$365,442,372	\$305,704,053	\$311,280,405	\$339,621,404	\$310,850,580	\$309,379,842
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	59.2%	61.0%	65.1%	64.0%	60.3%	63.5%	63.8%
Covered Payroll	\$104,017,764	\$108,326,347	\$107,814,490	\$107,363,266	\$108,015,367	\$111,738,352	\$110,748,076
Employer's Net Pension Liability as a Percentage of Covered Payroll	374.1%	337.4%	283.5%	289.9%	314.4%	278.2%	279.4%

\*See Notes to the Schedules on page 36. \*This schedule will display ten years of data as the information becomes available.

### Schedule of Employers' Contributions\*

	2020	2019	2018	2017	2016	2015	2014
Actuarially Determined Contribution	\$48,276,781	\$46,539,647	\$46,548,902	\$42,911,076	\$44,926,043	\$46,684,500	\$42,342,620
Contributions in Relation to the Actuarially Determined Contribution	55,240,421	48,539,647	46,548,902	42,911,076	44,926,043	46,684,500	42,342,620
Contribution Deficiency (Excess)	\$(6,963,640)	\$(2,000,000)	\$ -	\$ -	\$ -	\$ -	\$ -
Covered Payroll	\$104,017,764	\$108,326,347	\$107,814,490	\$107,363,266	\$108,015,367	\$111,738,352	\$110,748,076
Contributions as a Percentage of Covered Payroll	53.11%	44.81%	43.17%	39.97%	41.59%	41.78%	38.23%

\*This schedule will display ten years of data as the information becomes available.

### 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

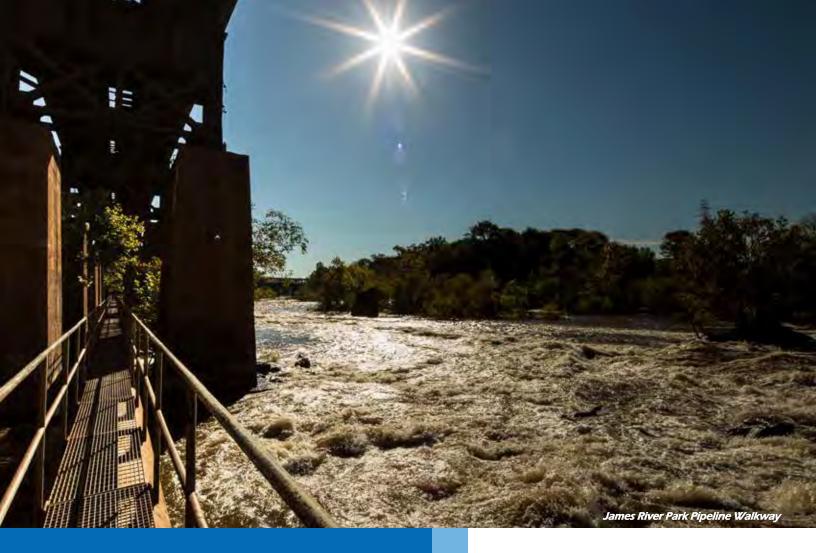
	2020
Actuarial Cost Method	Entry Age Normal
Amortization Period	Level percent of pay over a closed period not to exceed 30 years for police and fire employees; level dollar amount over a closed period not to exceed 30 years for general members.
Remaining Amortization Period	Re-amortize unfunded liability over 11 years as of July 1, 2020. Cost of VRIP is amortized over 3 years. Other new bases are amortized over 20 years.
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	2.50%
Salary Increases – General Employees	2.50% to 4.00%
Salary Increases – Police and Fire Employees	2.50% to 4.50%
Investment Rate of Return	7.00%
Retirement Age – General Employees	20% in 1st year of unreduced retirement eligibility; 10% at age 55 increasing to 100% at age 75
Retirement Age – Police and Fire Employees	25% in 1st year of unreduced retirement eligibility; 10% at age 50 increasing to 100% at age 65
Mortality – General Employees	Pub-2010 Below Median Income Table for General Employees
Mortality – Police and Fire Employees	Pub-2010 Below Median Income Table for Safety Employees

### Schedule of Investment Returns\*

	2020	2019	2018	2017	2016	2015	2014
Annual Money-Weighted Rate of Return, Net of Investment Expense	-1.0%	5.1%	7.1%	12.2%	-0.3%	2.4%	15.5%

Money-weighted rate of return is based on a methodology that reflects the impact of cash flows (contributions and withdrawals) to and from the portfolio and takes into account both the investment return and the size of the portfolio. In contrast, time-weighted rate of return is a measure of the compound rate of growth in a portfolio. The time-weighted method eliminates the effects of cash flows on the investment return. Large cash inflows or outflows in the portfolio and volatility of results can result in distortions to the money-weighted rate of return relative to the time-weighted return. Information on the portfolio's time-weighted rates of return can be found in the Investment Section of this report.

\*This schedule will display ten years of data as the information becomes available.



# Supplementary Information

Financial Section, continued

#### In this section:

Schedule of Administrative Expenses Schedule of Investment Expenses Schedule of Payments to Investment Consultant Schedule of Retirement Benefits

#### Schedule of Administrative Expenses

Year Ended June 30, 2020

Personnel Services	
Salaries and wages	\$714,189
Social Security and Medicare	36,832
Retirement contributions	142,002
Group life and health insurance	94,192
Total Personnel Services	987,215
Professional Services	
Actuarial	69,659
Legal services	29,878
Auditing and accounting services	52,500
Business services	6,771
Medical examiners	4,603
Total Professional Services	163,411
Communications	
Printing and publications	3,276
Other	
Board/staff development and travel	17,559
Technology	1,156
Supplies	14,559
Dues and membership	5,202
Depreciation	60,082
Total Other	98,558
Total Administrative Expenses before Allocation to Information Technology	1,252,460
Operating Fund Transfer to Internal Service Funds	83,050
Total Administrative and Depreciation Expenses	\$1,335,510

#### **Schedule of Investment Expenses**

Year Ended June 30, 2020

#### **Investment Managers:**

LSV Asset Management	\$130,345
Stone Harbor Investment Partners	56,719
CenterSquare Investment Management	33,524
Commingled Funds:	
Acadian Asset Management	451,784
JP Morgan Asset Management	343,252
Loomis, Sayles & Company	206,404
Fidelity Investments	201,008
Brandywine Global Investment Management, LLC	125,825
State Street Global Advisors	15,867
Other	83,533
Total Investment Managers Expenses*	\$1,648,261
Investment Custodian	

#### **Investment Custodian**

\*Mutual fund, commingled trust, and limited partnership fees are not reflected in this schedule; instead, these investment expenses are netted against investment income in the Statement of Changes in Fiduciary Net Position to arrive at a net investment income amount.

\$263,941

### Schedule of Payments to Investment Consultant

Year Ended June 30, 2020

#### **Investment Consultant:**

Callan	\$266,290
Total Investment Consultant Expenses	\$266,290

During the fiscal year ended June 30, 2020, the RRS did not direct any soft dollar transactions.

#### **Schedule of Retirement Benefits**

Year Ended June 30, 2020

#### **Benefit Payments:**

Regular Pension	\$61,960,276
Disability Pension	3,706,300
Survivor Pension	2,186,936
Death Benefits	145,317
DROP Expense	4,761,895
Total Benefits	\$72,760,724



## **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 Summary Schedules of Investment Results Asset Allocation Schedule of Investments Schedule of Fees Investment Summary

### Investment Consultant Report

## Callan



Main 770.618.2140 Fax 770.618.2141

www.callan.com

August 31, 2020

Board of Trustees **Richmond Retirement System** 730 East Broad Street Suite 900 Richmond, VA 23219

RE: Fiscal Year End 2020

Dear Trustees,

Callan LLC is pleased to present the Richmond Retirement System's ("RRS") investment results for fiscal year-end June 30, 2020. As of fiscal year-end, the RRS's investment market value totaled \$582.5 million, a decrease of approximately \$2.6 million since June 30, 2019. This decrease includes approximately \$2.9 million in net contributions.

#### **Total Fund Objectives**

The RRS investment program's objective is to provide plan participants with retirement benefits. This is accomplished by the implementation of a carefully planned and executed long-term investment program. The Board of Trustees ("Board"), with input provided by an Investment Advisory Committee ("IAC"), has exclusive control of all retirement system investments and is responsible for establishing investment objectives, strategies, and policies.

The Board is charged with the responsibility of investing RRS' assets to provide for the benefits of the members of the System. To achieve that goal, the Board follows a policy of seeking means of enhancing revenues while also protecting against undue losses in any particular investment area. The Board diversifies the investment of the assets among classes of securities to reduce risk while maximizing the long-range return.

#### Fiscal Year 2020 Market Review

During fiscal year 2020, the COVID-19 pandemic coupled with an oil price war between Saudi Arabia and Russia spurred extreme global market volatility, which was further exacerbated by the realization that a shelter-in-place mandate was required to overcome the spread of the disease, subsequently inducing an all-but-certain global recession. U.S. Treasuries rallied as investors sought safety and the yield curve steepened as the Fed cut rates. The Bloomberg Barclays Aggregate Bond Index rose 8.7% for the 12-month period. As massive monetary and fiscal intervention by governments unfolded, U.S. equity markets bounced back from March lows. Growth sectors fueled the advance with select

# Callan

names in the information technology sector benefiting from the "stay at home" environment. While the S&P 500 Index rose 7.5%, small cap stocks, as represented by the Russell 2000 Index, were plagued by economic uncertainty and fell by -6.6%. Non-U.S. equity markets posted losses. The MSCI EAFE Index and MSCI Emerging Markets Index fell -5.1% and -3.4%, respectively. Private real estate as measured by the NCREIF Property Index rose 2.7%.

#### **Total Fund Rates of Return**

For the fiscal-year-ending June 30, 2020, the RRS Total Fund returned 2.1% on a net-of-fee basis underperforming the policy benchmark return of 3.9% by 177 basis points. Over the trailing three-year period, the RRS Total Fund trailed the policy benchmark by 155 basis points net-of-fees with an annualized return of 4.5%, and by 88 basis points over the trailing five-year period with an annualized net-of-fee return of 5.1%. For the trailing ten-years, the RRS Total Fund returned 7.7% on a net-of-fee basis lagging the policy benchmark return of 8.2% by 49 basis points.

#### **Investment Policy**

The RRS Total Fund continues to evolve through an ongoing review of the asset allocation and asset class components. During the fiscal year 2020, the System completed public market investment manager structure evaluations for domestic and international equity as well as fixed income. Furthermore, alternative investment strategy studies were conducted for private equity, private debt, real assets and diversifying assets. Callan conducted investment manager searches for both traditional and alternative asset classes while the Board selected investment manager finalists for implementation. Staff worked diligently to fund new investment mandates and transition assets from former investment strategies. Within fiscal year 2021, the Board plans to revise the Plan's Investment Policy Statement and continue to conduct due diligence and fund commitments to the private equity allocation.

The performance returns for the Richmond Retirement System presented in this report have been calculated by Callan using custodial bank statements. The performance is calculated using a time-weighted rate of return methodology based upon the market value of assets.

Kind regards,

Brian of South

Brian Smith, CFA

eth Hood

Elizabeth Hood, CFA

## Investment Policy Summary

### Introduction

The Board is responsible for the overall management of the assets of the fund. The Trustees approve the Investment Policy Statement (IPS) and provide overall direction in executing the policy. The Trustees review investment results in relationship to investment expectations and actuarial assumptions and experience to determine if future changes are needed to either the IPS or the implementation of the IPS.

### Purpose of the IPS

The purpose of the IPS is to assist the Board in effectively supervising, monitoring, and evaluating the investment of the fund assets. The IPS:

- 1. Makes a clear distinction between the responsibilities of the Board and the service providers hired to help implement the Fund's Investment Policy — the investment consultant, the investment managers, and the bank custodian/trustee.
- 2. Describes the Fund's risk tolerance, as defined by the asset classes that are considered allowable investments and the percentage allocations to each asset class.
- 3. Sets forth the criteria to be placed on diversification of portfolio investments.
- 4. Describes the investment practices that apply to the individual portfolios managed by each of the investment managers.
- 5. Provides rate-of-return objectives and criteria to monitor and evaluate the performance results achieved by the investment managers.
- 6. Establishes effective communication procedures between the Board and the investment managers, investment consultant, and bank custodian/trustee.
- 7. Creates a formal review process for reviewing this Investment Policy Statement.

### Objectives

The assets are invested to meet the following 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 over time.
- 3. To assure the Fund's fiscal health.

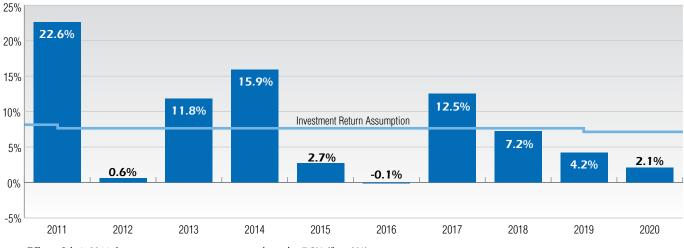
### Time Horizon

For purposes of planning, the time horizon for investments is long-term. Capital values fluctuate over shorter periods and the Board recognizes that the possibility of capital loss does exist. The Board has adopted a longterm investment horizon in order to carefully weigh the probability of investment loss against the long-term potential for investment gains. Fund assets will be invested in a prudent manner to ensure diversification of investment risks and opportunities.

For a copy of the Investment Policy Statement, please contact the Richmond Retirement System at 730 East Broad Street, Suite 900, Richmond, VA 23219.

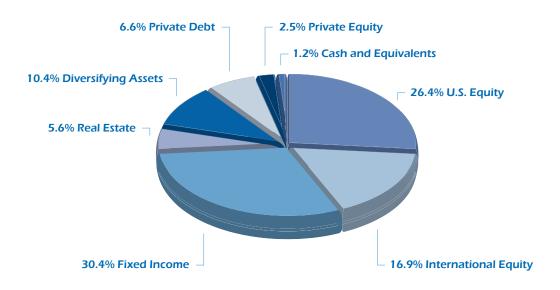
# Schedules of Investment Results

#### Fiscal Year Returns (Net of Fees)



Effective July 1, 2011 the investment return assumption was changed to 7.5% (from 8%) Effective June 30, 2019, the investment return assumption was lowered again from 7.5% to 7.0%.

#### **Asset Allocation**



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

One, Three, Five & Ten Years Ending June 30, 2020

	1 Year	<b>3</b> Years	<b>5</b> Years	10 Years
Total Fund				
RRS	2.1%	4.5%	5.1%	7.7%
RRS Custom Benchmark <sup>1</sup>	3.9%	6.0%	6.0%	8.2%
Total U.S. Equity				
RRS	3.9%	8.2%	8.3%	12.9%
RRS Custom Benchmark <sup>2</sup>	6.5%	10.0%	10.0%	13.7%
Total International Equity				
RRS	-2.3%	1.3%	3.5%	5.5%
RRS Custom Benchmark <sup>3</sup>	-4.8%	1.1%	2.3%	5.0%
Total Fixed Income				
RRS	7.4%	4.7%	4.4%	5.2%
RRS Custom Benchmark <sup>54</sup>	8.7%	5.3%	4.3%	3.8%
Total Diversifying Assets				
RRS	-1.2%	1.5%	0.9%	3.0%
RRS Custom Benchmark <sup>5</sup>	0.5%	2.3%	1.5%	2.8%
Total Real Estate				
RRS	-1.4%	3.3%	5.8%	n/a
RRS Custom Benchmark <sup>6</sup>	2.2%	5.7%	7.3%	n/a
Total Private Equity				
RRS	8.2%	10.7%	12.4%	12.4%
RRS Custom Benchmark <sup>7</sup>	2.1%	10.6%	10.4%	12.3%
Total Private Debt				
RRS	-0.6%	4.6%	6.0%	n/a
RRS Custom Benchmark <sup>8</sup>	-2.3%	2.1%	2.9%	n/a

#### Benchmarks:

<sup>1</sup> The RRS Custom Benchmark is a blend of the Asset Class Benchmarks at policy weights.

<sup>2</sup> The U.S. Equity Benchmark is the Russell 3000 Index.

<sup>3</sup> The International Equity Benchmark is the MSCI ACWI ex U.S. Index.

<sup>4</sup> The Fixed Income Benchmark is the Bloomberg Barclays Capital Universal Index.

<sup>5</sup> The Diversifying Assets Benchmark is the HFRI Fund of Funds Composite Index.

- <sup>6</sup> The Real Estate Benchmark is the NCREIF ODCE Index.
- <sup>7</sup> The Private Equity Benchmark is the Cambridge Associates U.S. All Private Equity Index lagged by three months.
- <sup>8</sup> The Private Debt Benchmark is the Credit Suisse Leveraged Loan Index lagged by three months.

\* Source: Callan LLC. Investment return calculations were prepared using a time-weighted return methodology based on market value, net of investment expenses.

### Schedule of Investments

#### Ten Largest Equity Holdings at June 30, 2020\*

Description	Share/Par	Fair Value
Intel Corporation	24,400	\$1,459,852
Verizon Communications, Incorporated	22,900	1,262,477
AT&T, Incorporated	40,900	1,236,407
Pfizer, Incorporated	33,900	1,108,530
Bristol Myers Squibb Company	15,450	908,460
Bank of America Corporation	34,500	819,375
Citigroup, Incorporated	15,700	802,270
Merck & Company, Incorporated	9,900	765,567
Ameriprise Financial, Incorporated	4,300	645,172
Comcast Corporation	16,000	623,680
Total Ten Largest Equity Holdings		\$9,631,790
Fair Value of Cash, Investment Payables & Receivables, a	nd Investments, June 30, 2020	\$579,950,872
Percentage of Ten Largest Equity Holdings	1.66%	

A complete listing of the holdings at June 30, 2020 is available from the RRS's executive office.

\*Schedule does not include equity and fixed income securities held by mutual funds and commingled trusts.

A Schedule of the Ten Largest Fixed Income Holdings was not included because RRS' fixed income investments are held in Collective Investment Trusts.



### Schedule of Fees

#### For Fiscal Year Ending June 30, 2020

	Assets Under Management	<b>Related Fees</b> *
Investment Manager's Strategy		
U.S. Equities	\$151,359,553	\$302,667
International Equities	97,784,185	448,961
Diversifying Assets	59,991,630	193,813
Real Estate	33,911,739	369,029
Fixed Income	176,918,106	308,237
Private Debt	39,073,576	-
Private Equity	14,232,905	
Total Long-Term Investments	573,271,694	1,622,707
Cash and Cash Equivalents	6,073,544	25,554
Total Investments	579,345,238	1,648,261
Net Cash Collateral from Securities Lending	689,549	-
Investment Payables	632,296	-
Investment Receivables	230,272	-
Other Receivables	4,052	
Total	\$580,901,407	\$1,648,261
Other Investment Service Fees		
Consultant		\$266,290
Custodian		263,941
Securities Lending Agent		7,748
Total Investment Service Fees		\$2,186,240

\*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 in Plan Net Position to arrive at a net investment income amount.\*

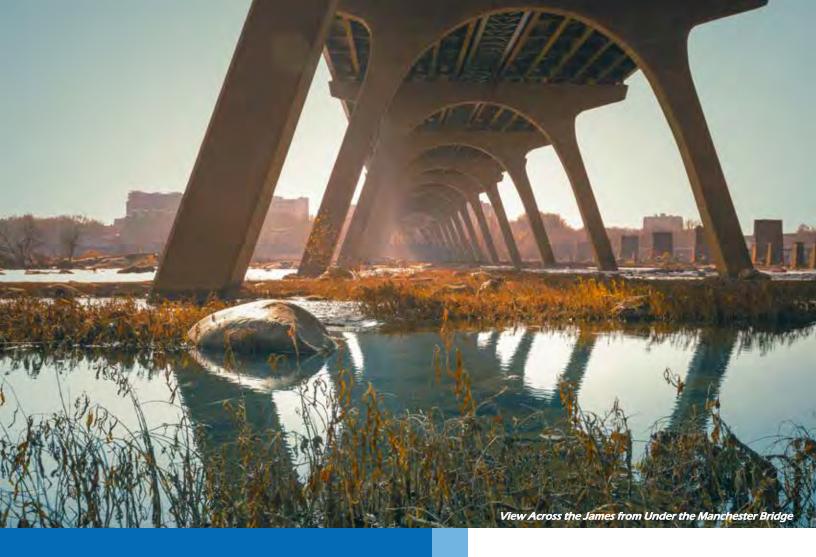
\*The RRS paid commissions of \$30,133 to 29 separate brokers during the fiscal year. State Street Global Markets and Citigroup Global Markets received 52% of the commissions.

# Investment Summary

As of June 30, 2020	Fair Value	% of Total Fair Value
Equities		
U.S. Equities		
Information Technology	\$5,473,502	0.94%
Consumer	7,889,658	1.36%
Financial	10,368,876	1.79%
Healthcare	7,827,774	1.35%
Industrials	4,820,773	0.83%
Energy	1,057,930	0.18%
Utilities	1,207,217	0.21%
Telecommunications	4,221,699	0.73%
Materials	2,655,821	0.46%
Other/Commingled Funds	105,836,303	18.27%
Total U.S. Equities	151,359,553	26.13%
International Equities		
Common Stocks	605,573	0.10%
Other/Commingled Funds	97,178,612	16.77%
Total International Equities	97,784,185	16.88%
Total Equities	249,143,738	43.00%
Fixed Income		
Core Commingled Fund	117,416,351	20.27%
Core Plus Commingled Fund	59,501,755	10.27%
Total Fixed Income	176,918,106	30.54%
Other Investments		
Diversifying Assets	59,991,630	10.36%
Real Estate	33,911,739	5.85%
Private Debt	39,073,576	6.74%
Private Equity	14,232,905	2.46%
Total Other Investments	147,209,850	25.41%
Total Investments	573,271,694	98.95%
Short-Term Investments		
Cash and Cash Equivalents	6,073,544	1.05%
Total Investments and Cash Equivalents	\$579,345,238	100.00%

\*May not add to 100% due to rounding.





# **Actuarial Section**

The Actuarial Section presents information relating to the funded status of the pension plan. Additionally, this 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 to and Removed from Rolls Analysis of Financial Experience

### Actuary's Report



4510 Cox Road, Suite 200 Glen Allen, VA 23060 sageviewadvisory.com

September 24, 2020

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, 2020, 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.

#### The 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 3% per year for Police/Fire employees and level contributions for General employees.

The July 1, 2020 valuation develops contribution rates for the fiscal year ending June 30, 2022. These contribution rates, which are based on the estimated covered payroll as of July 1, 2020, are as follows:

	General Employees	Police & Fire	Total
Bi-Weekly	77.69%	39.47%	54.19%

The above rates should be adjusted to reflect the actual budgeted payroll for the fiscal year ending June 30, 2022 if it is materially different than the estimated covered payroll on which they are based. The Board has approved a motion to request a change in the City Code which would provide for a flat dollar contribution amount for General Employees rather than a contribution rate. To the best of our knowledge, no action has yet been taken by the City.



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The contribution rates and amounts displayed above, once adjusted, 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, 2020 and June 30, 2019 is as follows:

	June 30, 2020	June 30, 2019
Total Pension Liability	\$954,585,395	\$938,077,477
Fiduciary Net Position	\$565,456,261	\$572,635,105
Net Pension Liability	\$389,129,134	\$365,442,372
Fiduciary Net Position as a Percentage of Total Pension Liability	59.2%	61.0%

#### Legislative and Administrative Changes

There was an ordinance adopted that provided for a Voluntary Retirement Incentive Program (VRIP) which allowed eligible members to receive additional benefits effective November 1, 2019 (or a later date if deemed essential) if they elected to participate. The impact of the VRIP was an increase in liability of \$9,734,789 as of June 30, 2020, based on 105 retirements. There are 6 additional retirements deemed essential that will be reflected in the Net Pension Liability as of June 30, 2021.

There was an ordinance adopted that provided for a one-time 1% cost of living adjustment (COLA) for members that were in pay status on or before January 1, 2019. This adjustment was effective January 1, 2020. The impact of the COLA was an increase in liability of \$5,307,320 as of June 30, 2020. This COLA was fully paid for by the City therefore no amortization base will be established. In addition, a contribution of \$1,656,320 was made to reduce the City's unfunded liability.

#### 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, 2018. This study resulted in the Board adopting several changes in assumptions, at the recommendation of the actuary, in order to better anticipate emerging experience. Included in the changes was an update to the mortality tables used to the Pub-2010 Below-Median Income tables for both General and Public Safety plan participants. Additionally, the Board reviewed the investment return assumption and voted to lower the assumption from 7.5% to 7.0%.

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The unfunded actuarial liability as of July 1, 2019 is being amortized over a period of 12 years; with contributions increasing 3% per year for Police & Fire employees and level contributions for General employees. The cost of the Voluntary Retirement Incentive Program (VRIP) is being amortized over 3 years so that the annual cash inflow will be approximately equal to the annual outflow of benefit payments related to the VRIP. The amortization period for other bases established on or after July 1, 2020 is 20 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 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 which will be 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, 2020. These schedules include the Schedule of Active Members Valuation Data, Schedule of Beneficiaries Added to and Removed from Rolls, and the Reasons for Change in Contribution Rates.

#### **Defined Contribution Plan**

The City also sponsors a 401(a) Defined Contribution Plan for General employees hired on or after July 1, 2006 and other employees who have elected to participate in that plan in lieu of the Richmond Retirement System's defined benefit plan. 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.

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#### **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. The assumptions and methods used for funding purposes meet the parameters set by the Actuarial Standards of Practice.

Future liability and asset values may differ from the results shown in this report for many reasons including, but not limited to, actual experience differing from assumed experience, changes in actuarial assumptions or methods, plan amendments, regulatory changes or changes in contribution strategy. An impact analysis of such potential changes is not included in this report. Potential plan risks are discussed in Table 15 in compliance with ASOP 51.

The undersigned credentialed actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained in this report. We are not aware of any direct or material indirect financial interest or relationship, including investments or other services, that could create a conflict of interest or that would impair the objectivity of our work.

We appreciate the opportunity to be of service to the Richmond Retirement System and are available to answer questions regarding this report or to provide further details as may be requested.

Respectfully submitted,

SageView Consulting Group

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

Williami J. Rail

William J. Reid, FCA, EA *Principal* 

# Actuarial Assumptions and Methods

### Actuarial Cost Method

For fiscal year ended June 30, 2020, 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, 2018 valuation developed contribution rates for the fiscal year ending June 30, 2020 using the Entry Age Actuarial Cost Method.

The investment return assumption of 7% was adopted for the years ended on and after June 30, 2019. Other actuarial assumptions and methods are as follows:

### Actuarial Assumptions

#### Interest

7.0% per annum, compounded annually; adopted July 1, 2019.

#### Mortality

Active Lives and Service Retirements

#### **General Employees:**

Pub-2010 Below-Median Income Mortality Table for General Employees

#### Police and Fire Employees:

Pub-2010 Below-Median Income Mortality Table for Public Safety Employees

#### **Disabled Lives**

#### **General Employees:**

Pub-2010 Below-Median Income Mortality Table for Disabled General Employees

#### Police and Fire Employees:

Pub-2010 Below-Median Income Mortality Table for Disabled Public Safety Employees

#### Turnover

#### **General Employees:**

An attained age table with the following typical rates:

Age	Rate
25	-
35	0.0950
45	0.0550
55	0.0300
60	0.0100

#### Police and Fire Employees:

An attained age table with the following typical rates:

Age	Rate
25	0.0794
35	0.0434
45	0.0096
55	0.0015
60	-

#### 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
55-56	0.100
57	0.080
58-60	0.060
61	0.120
62-64	0.150
65	0.250
66	0.300
67-69	0.200
70	0.400
71-73	0.300
74	0.500
75	1.000

#### Police and Fire Employees:

A select and ultimate table with the following typical rates; 25% for the first year in which the employee is eligible for unreduced immediate retirement benefits, and:

Age	Rate
50	0.100
51-53	0.080
54-55	0.120
56	0.090
57	0.150
58	0.200
59	0.300
60	0.400
61-63	0.500
64	0.750
65	1.000

#### Disability

#### **General Employees:**

An attained age table with the following typical rates:

# Age Rate 25

35	0.000100
45	0.001500
55	0.008500
60	0.014200

#### Police and Fire Employees:

An attained age table with the following typical rates:

# AgeRate250.000100350.000200450.001000550.001300

#### **Duty Disability**

#### **General Employees:**

An attained age table with the following typical rates:

Age	Rate
25	0.000017
35	0.000017
45	0.000059
55	0.000252

#### Police and Fire Employees:

An attained age table with the following typical rates:

Age	Rate
25	0.000035
35	0.000047
45	0.000170
55	0.000746

#### Salary Increases

#### **General Employees:**

An attained age table with the following typical rates:

Age	Rate
25	0.04000
35	0.04000
45	0.03500
55	0.03000
60	0.02500

#### Police and Fire Employees:

An attained age table with the following typical rates:

Age	Rate
25	0.04500
35	0.03500
45	0.03000
55	0.02500
60	0.02500

#### 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% was used. The resulting actuarial asset value cannot be less than 90% or greater than 110% of market value.

\*The Schedule of Funding Status on page 19 presents the funding progress for each of the twenty-one most recent years based on actuarial methods and assumptions used for funding purposes.

\*See the Schedule of Changes in the Employers' Net Pension Liability and Related Ratios on page 35.

## Schedule of Active Members Valuation Data

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

Valuation Date	Members	Annual Payroll	Average Salary	Percent Increase (Decrease)
6/30/20	604	\$39,532	\$65	9.1
6/30/19	738	44,286	60	1.1
6/30/18	800	47,493	59	3.3
6/30/17	873	50,169	57	1.5
6/30/16	941	53,267	57	1.6
5/30/15	1,014	56,518	56	4.5
6/30/14	1,075	57,323	53	3.4
6/30/13	1,256	64,794	52	0.2
6/30/12	1,375	70,773	51	1.6
6/30/11	1,510	76,521	51	1.1

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

Valuation Date	Members	Annual Payroll	Average Salary	Percent Increase (Decrease)
6/30/20	983	\$63,181	\$64	1.5
6/30/19	993	62,902	63	3.0
6/30/18	981	60,321	61	5.9
6/30/17	985	57,195	58	2.9
6/30/16	970	54,749	56	2.7
6/30/15	1005	55,220	55	1.8
6/30/14	990	53,425	54	0.2
6/30/13	963	51,872	54	-2.3
6/30/12	985	54,287	55	0
6/30/11	988	54,450	55	-2.7

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

Valuation Date	Members	Annual Payroll	Average Salary	Percent Increase (Decrease)
6/30/20	2,400	\$131,407	\$55	5.3
6/30/19	2,297	119,416	52	0.9
6/30/18	2,179	112,220	52	1.5
6/30/17	2,051	104,053	51	1.3
6/30/16	1,938	97,097	50	0.2
6/30/15	1,890	94,457	50	3.4
6/30/14	1,865	90,102	48	0
6/30/13	1,765	85,235	48	2.7
6/30/12	1,735	81,603	47	-1.2
6/30/11	1,656	78,861	48	1.2

## Schedule of Beneficiaries Added to and Removed from Rolls

(Dollars in	ollars in Thousands)								Retirees as a Pe of Active Mem	
Ended	Added	Annual Allowances Added	Removed	Annual Allowances Removed	Total	Annual Allowances	% Change	Average Annual Allowances	Number	Рау
6/30/20	220	\$5,707	193	\$2,378	4,327	\$73,848	4.7%	\$17	272.7%	71.9%
6/30/19	157	\$3,008	175	\$2,544	4,300	\$70,519	0.7%	\$16	248.4%	65.8%
6/30/18	161	\$3,332	140	\$2,400	4,318	\$70,055	1.3%	\$16	242.4%	65.0%
6/30/17	128	\$2,268	153	\$2,179	4,297	\$69,123	0.1%	\$16	231.3%	64.4%
6/30/16	153	\$2,272	145	\$1,596	4,322	\$69,034	1.0%	\$16	226.2%	63.9%
6/30/15	163	\$1,667	161	\$1,517	4,314	\$68,358	0.2%	\$16	213.7%	61.2%
6/30/14	285	\$5,087	143	\$1,654	4,312	\$68,208	5.3%	\$16	208.8%	61.6%
6/30/13	182	\$1,917	143	\$1,483	4,170	\$64,775	0.7%	\$16	187.9%	55.5%
6/30/12	206	\$2,885	153	\$1,630	4,131	\$64,341	2.0%	\$16	175.0%	51.4%
6/30/11	217	\$4,038	136	\$1,462	4,078	\$63,086	4.3%	\$15	163.3%	48.2%



# Analysis of Financial Experience

### Reasons for Change in the Unfunded Actuarial Liability

The net pension liability was \$389,129,134 as of June 30, 2020. The increase from the prior year was primarily due to actual investment return on the value of assets being less than the expected return, and increased liability due to the VRIP.

# Reasons for Change in Funded Status

The funded status decreased from 61.0% as of June 30, 2019 to 59.2% as of June 30, 2020. The decrease from the prior year was primarily due to actual investment return on the value of assets being less than the expected return, and the increased liability due to the VRIP.

Information for plan provisions regarding benefits can be found in Note IV beginning on page 27. Additionally, the assumptions and methods used in the actuarial valuation can be found in Note V beginning on page 32 and in the required supplementary information. Actuarial assumptions used for funding purposes are the same as those used for financial statement purposes.

# Reasons for Change in Contribution Rates

The overall employer contribution rate, as of the beginning of the year, increased from 41.51% for the fiscal year ending June 30, 2019 to 42.97% for the fiscal year ending June 30, 2020. The increase of 1.46% is due to the following reasons:

Contribution Rate Fiscal Year Ended 2019	41.51%
Increase due to investment loss on actuarial value of assets:	0.06%
Decrease/Increase due to changes in assumptions:	0.00%
Decrease/Increase due to changes in methods:	0.00%
Decrease/Increase due to changes in benefit provisions:	0.00%
Increase due to reduction in covered payroll:	1.02%
Increase due to other experience factors:	0.38%
Total:	1.46%
	(

Contribution Rate Fiscal Year Ended 2020 42.97%



### **Statistical Section**

The Statistical Section presents detailed historical information regarding the pension plan administered by the RRS. This information includes a ten-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 Employer and Component Unit (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

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Net Position Available — Beginning of Year	\$572,635	\$569,085	\$552,713	\$515,254	\$540,061	\$544,904	\$492,619	\$461,761	\$489,987	\$417,669
Additions										
Employer Contributions	55,241	48,540	46,549	42,911	44,926	46,537	42,295	40,402	38,884	39,718
Member Contributions	1,980	1,936	1,963	2,151	1,976	2,347	2,118	2,093	2,217	2,421
Investment Income (Loss)	9,749	25,100	38,843	62,841	(1,498)	15,641	76,463	54,219	1,896	93,770
Total Additions	66,970	75,576	87,355	107,903	45,404	64,525	120,876	96,714	42,997	135,909
Deductions										
Benefit Payments	72,761	70,545	69,707	69,186	68,846	68,140	67,274	64,673	70,037	62,392
Refunds	52	204	68	117	203	128	47	102	49	81
Administrative/Deprecia- tion Expenses	1,336	1,277	1,208	1,141	1,162	1,100	1,270	1,081	1,135	1,117
Total Deductions	74,149	72,026	70,983	70,444	70,211	69,368	68,591	65,856	71,221	63,590
Change in Net Position	(7,179)	3,550	16,372	37,459	(24,807)	(4,843)	52,285	30,858	(28,225)	72,318
Net Position Available — End of Year	\$565,456	\$572,635	\$569,085	\$552,713	\$515,254	\$540,061	\$544,904	\$492,619	\$461,761	\$489,987

### Schedule of Retirees and Beneficiaries June 30, 2020

				Туре о	of Retir	ement	I				Option	Selecte	ed²	
Amount of Monthly Benefit	Number of Retirees	А	в	с	D	Е	F	G	Life	1	2	3	4	5
\$1-\$100	343	1	21	309	10	1	1	-	302	14	2	5	0	20
\$101-\$200	355	2	34	309	5	1	1	3	288	26	3	2	3	33
\$201-\$300	245	10	42	175	6	1	8	3	190	14	1	5	3	32
\$301-\$400	220	7	73	119	8	-	6	7	150	17	1	3	1	48
\$401-\$500	176	12	60	76	3	4	19	2	127	11	0	1	1	36
\$501-\$600	161	11	65	57	8	5	13	2	110	2	1	6	1	41
\$601-\$700	154	14	68	53	7	1	8	3	101	5	0	4	4	40
\$701-\$800	123	15	60	27	7	1	13	-	70	4	1	2	1	45
\$801-\$900	126	14	67	18	9	5	11	2	76	4	1	2	3	40
\$901-\$1000	122	15	64	24	1	5	11	2	62	5	0	2	4	49
Over \$1000	2,302	384	1,656	72	41	78	70	1	1,552	141	_51	100	107	351
Total	4,327	485	2,210	1,239	105	102	161	25	3,028	243	61	132	128	735

#### <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

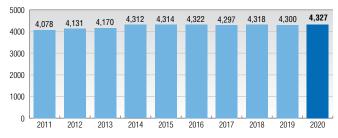
LIFE — Basic Benefit

- 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 Benefits** (Dollars in Thousands)



# Schedule of Participating Employer and Component Unit (Current Year and Ten Years Ago)

	20	020	2010		
Participating Employer and Component Unit	Covered Employees	Percentage of Total System	Covered Employees	Percentage of Total System	
City of Richmond	1,562	98.4%	2,545	97.3%	
Richmond Behavioral Health Authority	25	1.6%	71	2.7%	
Total	1,587	100.0%	2,616	100.00%	

### **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.

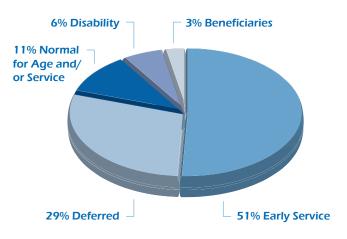
#### Social Security (Smooth-Out) Option

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.

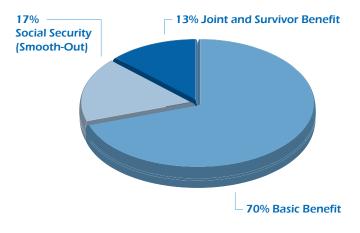
#### Joint and Survivor Benefit Option

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.

### **Retirement Types**



### **Benefit Payment Options**



# Schedule of Average Benefit Payments

#### Retirement Effective July 1, 2011 to June 30, 2020

-	Years of Creditable Service								
	0-5	5-10	10-15	15-20	20-25	25-30	30+		
FY 2020									
Average monthly benefit	\$210	\$295	\$686	\$1,137	\$2,229	\$3,022	\$2,956		
Average final salary	\$84,906	\$35,361	\$43,835	\$50,424	\$70,850	\$64,920	\$54,641		
Number of retired members	1	26	17	13	27	28	98		
FY 2019									
Average monthly benefit	\$488	\$343	\$744	\$1,352	\$1,546	\$3,399	\$3,224		
Average final salary	\$85,690	\$34,903	\$39,025	\$47,110	\$50,916	\$72,880	\$62,348		
Number of retired members	6	43	21	16	12	30	24		
FY 2018									
Average monthly benefit	\$255	\$238	\$910	\$1,266	\$1,718	\$2,991	\$3,331		
Average final salary	\$41,363	\$25,826	\$53,314	\$49,956	\$50,019	\$65,135	\$67,468		
Number of retired members	2	27	22	16	8	20	38		
FY 2017									
Average monthly benefit	\$146	\$293	\$816	\$1,352	\$1,952	\$3,214	\$2,713		
Average final salary	\$52,541	\$31,507	\$44,095	\$60,070	\$56,857	\$66,133	\$52,548		
Number of retired members	2	22	26	15	13	17	21		
FY 2016									
Average monthly benefit	\$0	\$217	\$1,019	\$1,395	\$1,769	\$3,227	\$3,538		
Average final salary	\$0	\$26,320	\$53,657	\$48,659	\$56,612	\$69,436	\$65,794		
Number of retired members	0	28	15	18	20	36	22		
FY 2015									
Average monthly benefit	\$616	\$270	\$734	\$1,081	\$1,298	\$2,994	\$2,834		
Average final salary	\$116,696	\$29,673	\$46,794	\$51,058	\$57,990	\$64,902	\$56,033		
Number of retired members	3	40	33	19	8	20	19		
FY 2014									
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		
FY 2013	4100	<b>**</b> < 1	4.4.4.4	4010	A. (00	44 404			
Average monthly benefit	\$199	\$264	\$508	\$819 ¢ (0,505	\$1,499	\$2,582	\$3,142		
Average final salary Number of retired members	\$75,193 2	\$30,468 37	\$31,411 30	\$40,595 16	\$50,062 21	\$61,874 30	\$58,771 38		
	L	57	50	10	21	50	38		
FY 2012		4444	* /	* <		<b>** =</b> **			
Average monthly benefit	\$322	\$299	\$457	\$677	\$2,032	\$2,792	\$2,722		
Average final salary Number of retired members	\$40,323 1	\$33,962 32	\$33,936 25	\$31,863 18	\$52,933 15	\$60,187 31	\$50,971 68		
	1	20	2)	10	1)	<i>J</i> 1	08		
<b>FY 2011</b>	¢27	¢205	¢5.(2)	¢1 0 / 1	¢1.00/	¢2.026	¢2.01/		
Average monthly benefit	\$26	\$285 \$20.02(	\$562 \$20,721	\$1,041	\$1,884	\$3,026 \$(4,22)	\$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		

# Schedule of Membership June 30, 2020

Active Defined Benefit Plan Members — By Departments ar	nd Agencies
Animal Care & Control	2
Assessor of Real Estate	8
Citizen Service & Response	3
City Attorney's Office	8
City Auditor	2
City Clerk	2
City Council	3
Department of Community Wealth Building	2
Department of Budget & Strategic Planning	1
Department of Community Development	18
Department of Economic Development	2
Department of Emergency Communications	9
Department of Finance	7
Department of Fire & Emergency Services	344
General Employees	3
Firefighters	341
Department of Health	1
Department of Human Resources	7
Department of Information Technology	15
Department of Parks, Recreations & Community Facilities	57
Department of Procurement Services	1
Department of Public Utilities	162
Department of Public Works	102
Department of Social Services	65
•	
Housing & Community Development	3
Inspector General	16
Juvenile Justice Services	16
Office of the Chief Administrative Officer	0
Minority Business Enterprise	1
Office of the Mayor	2
Public Library	14
Richmond Behavioral Health Authority	25
Richmond Police Department	686
General Employees	44
Police Officers	642
Richmond Retirement System	1
Human Services	2
Total	1,587
Retired Members	
General Employees	3,072
Police & Fire Employees	1,252
City Council Members	3
Total	4,327
Terminated Vested Defined Benefit Plan Members	<u> </u>
General Employees	1,282
Police & Fire Employees	263
City Council Members	-
Total	1,545
Active Defined Contribution 401(a) Plan Members	
General Employees	2,356
Police & Fire Employees	44
Total	2,400
Terminated Vested Defined Contribution 401(a) Plan members	366
Total Membership	10,225

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