Comprehensive Annual Financial Report

South Carolina Retirement Systems For the fiscal year ended June 30, 2017 Pension trust funds of the State of South Carolina

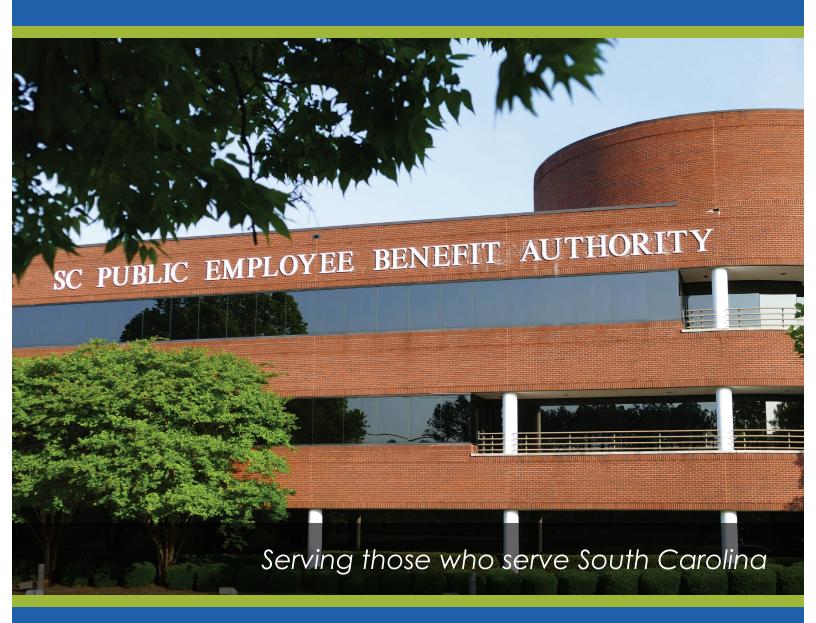




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Introductory Section





LETTER OF TRANSMITTAL

December 8, 2017

The Honorable Henry D. McMaster, Governor State of South Carolina Members of the S.C. State Fiscal Accountability Authority S.C. Public Employee Benefit Authority Board

We are pleased to present the *Comprehensive Annual Financial Report* (CAFR) of the South Carolina Retirement Systems (Systems) as administered by the South Carolina Public Employee Benefit Authority (PEBA), for the fiscal year ended June 30, 2017. Section 9-1-300 of the South Carolina Code of Laws requires that a report be published annually showing the fiscal transactions of the Systems, and the CAFR fulfills that statutory requirement. PEBA is considered a division of the primary government of the state of South Carolina; and therefore, financial information for the Retirement Systems' trust funds is also included in the CAFR of the state of South Carolina. Responsibility for both the accuracy of the data, and the completeness and reliability of the presentation, including all disclosures, rests with the management of PEBA. To the best of our knowledge and belief, the enclosed data is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of the Systems.

The CAFR was prepared to conform to the principles of governmental accounting and reporting set forth by the Governmental Accounting Standards Board (GASB). GASB is an organization established under the Financial Accounting Foundation and establishes and approves governmental standards. GASB is recognized as the official source of generally accepted accounting principles (GAAP) for state and local governments.

Financial transactions of the Systems are reported on the accrual basis of accounting. Sufficient internal accounting controls exist to provide reasonable assurance regarding the safekeeping of assets and fair presentation of the financial statements and supporting schedules, with consideration that the cost of internal control should not exceed anticipated benefits.

The financial statements presented in this CAFR have been independently audited by CliftonLarsonAllen, LLP, under the direction of the State Auditor's Office. CliftonLarsonAllen issued an unmodified opinion, which means that, based upon the financial audit, they concluded that the financial statements were fairly presented in all material respects and are free from material misstatement, in accordance with accounting principles generally accepted in the United States of America.

In accordance with Governmental Auditing Standards, as part of obtaining reasonable assurance about whether the Systems' financial statements are free of material misstatement, CliftonLarsonAllen also considered internal controls over financial reporting and compliance with certain provisions of laws, regulations, contracts, and other matters. Although independent auditors cannot guarantee the accuracy of the statements, they do have a reasonable basis for the opinion they rendered. The independent auditor's report is presented as the first

component of the financial section of this report. Management's Discussion and Analysis (MD&A), which can also be found in the financial section starting on page 29, provides a narrative introduction to and analysis of the financial statements. This letter of transmittal is meant to complement the MD&A and should be read in conjunction with it.

Profile of the Systems

PEBA is responsible for administering the South Carolina Retirement Systems' five defined benefit pension plans. A defined benefit plan is a retirement plan in which contributions are made to fund a level of retirement income at a future retirement date. Specified monthly service retirement benefits, as well as disability benefits and death benefits are provided to eligible members and/or their surviving beneficiaries. The plans' terms specify the amount of pension benefits to be provided at a future date or after a certain period of time. Monthly benefits are specified as a function of a formula that is based on years of creditable service, average final compensation, and age. PEBA's administrative and reporting structure is outlined in the Introductory Section of this report.

This report contains information on the following defined benefit pension trust funds:

- The South Carolina Retirement System (SCRS) was established July 1, 1945, to provide retirement and
 other benefits for teachers and employees of the state and its political subdivisions. SCRS covers
 employees of state agencies, public school districts, higher education institutions, other participating
 local subdivisions of government and individuals newly elected to the South Carolina General Assembly
 at or after the 2012 general election.
- The South Carolina Police Officers Retirement System (PORS) was established July 1, 1962, to provide retirement and other benefits to police officers and firefighters. PORS also covers peace officers, coroners, probate judges and magistrates.
- The Retirement System for Members of the General Assembly of the State of South Carolina (GARS) was established January 1, 1966, to provide retirement and other benefits to members of the General Assembly. Retirement reform legislation closed the GARS plan to individuals newly elected to the South Carolina General Assembly at or after the 2012 general election.
- The Retirement System for Judges and Solicitors of the State of South Carolina (JSRS) was established July 1, 1979, to provide retirement and other benefits to state judges and solicitors. JSRS also covers circuit public defenders.
- The South Carolina National Guard Supplemental Retirement Plan (SCNG) was established July 1, 1975, to provide supplemental retirement benefits to members who served in the South Carolina National Guard.

Fiscal Year 2017 Highlights

Fiscal year 2017 ended PEBA's fifth fiscal year of operations as an agency, having been created effective July 1, 2012, by the South Carolina General Assembly. The agency is governed by an 11-member Board of Directors. PEBA is responsible for administration of the various Retirement Systems and retirement programs of the state of South Carolina, including the State Optional Retirement Program and the S.C. Deferred Compensation Program, as well as the state's employee insurance programs.

Administrative Activities

PEBA's vision is to serve those who serve South Carolina and the agency does this by focusing efforts in areas that will provide the best service to the customer. Many technology upgrades have provided for enhanced customer experiences. Members with insurance benefits-related questions can now contact a customer service representative via our Live Chat feature, which was previously only used for retirement benefits. Employer and member portal enhancements expanded user capabilities such as electronic payments for employers submitting retirement contributions, electronic document uploads of supporting documentation and online retirement refund status updates. During the fiscal year, PEBA also purchased and implemented a new call management system, which replaced our previous 20-year-old system.

A new informational series, *Navigating Your Benefits*, was developed and launched to assist members in making insurance and retirement decisions through common-language explanations. The series offers a variety of flyers and videos. A new member e-newsletter, *pebapulse*, was implemented to provide up-to-date insurance and retirement information. With increased emphasis on retirement awareness and wellness, new communication pieces were developed to assist members and employers in making informed decisions.

In fiscal year 2017, an employee onboarding program was developed and implemented for PEBA staff. New employees receive a comprehensive review of PEBA basics through the program and then attend two classroom sessions entitled, "The PEBA Way" and also a meet-and-greet with executive staff. In addition to required information security training, an online privacy, security and safety module specific to PEBA was produced and delivered. Mandatory classroom sessions were also conducted to reinforce the significance of this growing concern.

Staff were also provided other numerous opportunities for voluntary self-development. Several online training sessions were offered and two open registration courses were offered throughout the year, including "The PEBA Way" and "Managing Conflict". A Tuition Assistance Policy was developed, implemented and made available to assist interested employees in furthering their education. In addition to regularly hosted lunch-and-learn events, employees were offered the opportunity to participate in book clubs, lunchtime fitness initiatives and other wellness events.

Public Policy Activities

The Enterprise Risk Management (ERM) and Compliance Department has made strides to improve management of the programs that oversee PEBA's compliance with state and federal regulations as well as the monitoring of those programs. The privacy officer role was structurally reorganized under the ERM Department and a privacy officer was hired to manage PEBA's regulations related to information privacy such as HIPAA. A few of the initiatives that have been implemented include: improving PEBA's processes for internally reporting possible incidents, improving training programs for staff, completing a HIPAA risk assessment for the agency and finalizing a new privacy policy for the agency.

On April 25, 2017, Governor Henry McMaster signed into law the Retirement Funding and Administration Act of 2017, which became effective on July 1, 2017. The legislation has significant impacts on SCRS and PORS by increasing the employer and employee contribution rates, establishing a ceiling on the employee contribution rate, and requiring a scheduled reduction of the funding period. The Act also lowered the assumed rate of return and addressed various governance issues including the assignment of the PEBA Board of Directors as custodian of the retirement trust funds and assignment of the Retirement System Investment Commission (RSIC) and PEBA as co-trustees. The Joint Committee on Pension Systems Review has publicly stated that they will continue their work during fiscal year 2018. PEBA will continue to work with the Joint Committee during its evaluation.

Operational System Improvements

PEBA continued early initiatives to replace its legacy systems. PEBA hired a project director and issued a request for proposal for a client services vendor to facilitate and support the replacement of our information systems. The client services vendor is an expert in public pension and insurance enterprise system implementation. The client services vendor will begin work in Fall 2017 by reviewing the functional and technical requirements for the new system.

The project is expected to take approximately 5 years to complete and has been named "peba:connect".

Summary of Financial Condition

Actuarial Results

The main funding objective of the pension trust funds is to meet future benefit obligations of retirees and beneficiaries through employee and employer contributions and investment earnings. Each year, the external consulting actuaries determine the actuarial soundness of the plans based on long term obligations and the sufficiency of current contribution levels to fund the liabilities of each plan over a reasonable time frame.

The July 1, 2016, actuarial valuations which were adopted by the PEBA Board in December 2016, determined the actuarial status of each plan and the minimum necessary employee and employer contribution requirements for fiscal year 2017. The market value of assets is less than the actuarial value of assets, so deferred investment losses exist which will be recognized as investment losses in future years. Given both the magnitude of the deferred losses and short-term investment projections, increased funding requirements were recognized. Pension reform legislation was enacted which increases, but also establishes a ceiling for employee contribution rates. Effective July 1, 2017, employee rates increase to a capped rate of 9.00 percent for SCRS and 9.75 percent for PORS. The legislation also increases employer contribution rates effective July 1, 2017 for both SCRS and PORS by 2 percentage points to 13.56 percent and 16.24 percent, respectively. The SCRS and PORS employer contribution rates increased by more than one percentage point for Fiscal Year 2017-18; therefore, in accordance with General Provision 117.151 of the 2017-2018 Appropriations Act, funds were appropriated to PEBA to be credited toward contributions due from all participating employers in SCRS and PORS for Fiscal Year 2017-18. Employer contribution rates are scheduled to continue to increase by a minimum of 1 percentage point each year through July 1, 2022, and further, if the scheduled contributions are not sufficient to meet the funding periods set for the applicable year. The board shall increase the employer contribution rates as necessary to meet the amortization period set in statute.

The funded ratios of the five plans as of July 1, 2016, range from a low of 41.5 percent for SCNG to a high of 66.3 percent for PORS. The funded ratio for SCRS, which represents the largest membership of the five plans, decreased from 62.0 percent to 59.5 percent and similarly PORS decreased from 69.2 percent to 66.3 percent. Declines in funded ratios were primarily due to the continued recognition of deferred investment losses experienced in prior fiscal years, which are recognized in the actuarial value of assets using a modified five-year smoothing technique. The funded ratios were also impacted by increases in the liability because the contributions to the plan attributable to financing the unfunded actuarial accrued liability were less than the interest on the unfunded liability.

The funded ratio of SCNG continues to be very low because at one time, the plan was not funded on an actuarially sound basis. However, since 2006 when the General Assembly transferred administrative responsibility to the Retirement Division, their commitment to ensure the SCNG plan would be sufficiently funded prospectively has been maintained and the funded ratio has steadily improved. Each year recurring funds are set aside in the state's annual budget to fund SCNG over an amortization period that does not exceed 30 years, so continued future improvement in the funded ratio is expected.

As of July 1, 2016, the unfunded actuarial accrued liability for SCRS increased from \$16.8 billion to \$18.6 billion and PORS increased from \$1.9 billion to \$2.2 billion. The largest source of increase was the result of continual recognition of deferred investment losses in the actuarial value of assets. Absent significant favorable investment experience, those deferred losses will continue to be reflected, or smoothed, in the actuarial value of assets over the next few years. Other non-investment related experience activity such as mortality, salary experience, payroll growth and turnover, which are considered normal within the course of plan experience, contributed to other actuarial gains and losses, as actual experience cannot be precisely predicted and will never exactly match the estimated assumptions.

Actuarial smoothing techniques, which defer investment gains and losses, help to dampen the short-term volatility inherent in investment markets by allowing only a portion of investment gains and losses to be recognized each year. Actual investment returns for fiscal year 2016 were less than the assumed rate of return. Specifically, the return documented in the 2016 valuation was negative .07 percent on a dollar-weighted basis for the plan year ending June 30, 2016 compared to a 7.50 percent assumed rate of return. Using smoothing techniques, all of the Systems recognized a net actuarial loss on investment returns for the valuation year. As of the July 1, 2016 valuation, the market value of SCRS assets was \$3.3 billion less than the actuarial value of those assets, which signifies that the retirement system is in a position of deferred losses. Therefore, unless investment returns in excess of the assumed rate of return are achieved, the future recognition of these deferred losses is expected to increase the unfunded actuarial accrued liability thus additional funding sources are scheduled per recent legislative action.

For additional financial information, refer to management's discussion and analysis, financial statements and schedules included in the financial section and the actuarial section of this report. It is important to note that the actuarial valuations determine the funding of the pension plans; however, under new standards issued by the Governmental Accounting Standards Board (GASB), Statements 67 and 68 completely disconnect the funding of pensions from the accounting and reporting of pensions.

Investment Performance

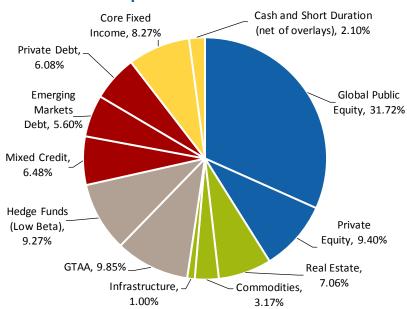
As of June 30, 2017, the custodial bank reported that assets of the pension trust funds, invested and managed by the Retirement System Investment Commission (RSIC), had a fair value of \$30.1 billion. This represents a \$2.1 billion increase, after payment of benefits, over the previous fiscal year end's fair value.

The Plans' assets returned 11.88 percent, net of fees on a time-weighted calculation basis, for the fiscal year ending June 30, 2017, compared to the Policy benchmark's return of 11.82 percent. The three year annualized net of fees return was 4.23 percent, as of the fiscal year end, compared to the Policy benchmark return of 4.49 percent. The five year Plan annualized return and Policy benchmark return were 7.50 percent and 7.11 percent respectively.

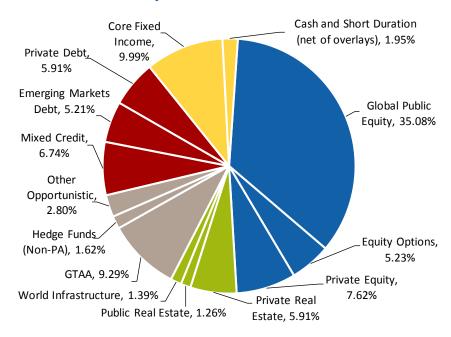
The Plan's actuarial assumed rate of return, as of fiscal year end, was 7.50 percent. Investment performance, in comparison to the actuarial assumed rate of investment return, is a significant factor in the actuarial valuations. The actuarial asset valuation method utilized dampens year-to-year fluctuations, mitigates the effect of annual return volatility in the market and helps provide a consistent estimate for the actuarial value of assets. Detailed investment results for fiscal year 2017 can be found within both the financial and investment sections of this report.

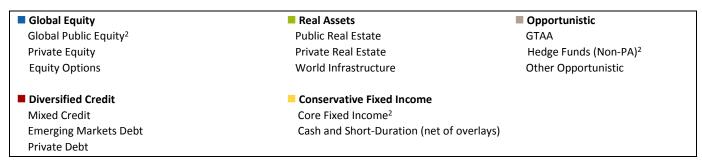
The RSIC provided the charts on pages 15-16, which summarize the asset allocation of the Retirement Systems' trust funds for the prior and most recent fiscal year periods and the RSIC's target allocation in effect as of fiscal year ended June 30, 2017. The Commission approved and implemented a series of changes to the portfolio's target asset allocation which will phase in over a three-year time period. The majority of these changes went into effect in the 2017 fiscal year. The most notable of these changes included the addition to Equity and Real Assets exposures, offset in part by reductions to Hedge Funds and Commodities. During the year, the Commission elected to pursue steeper cuts to its Hedge Fund portfolio than it had originally intended. These changes are expected to occur during Fiscal Year 2018.

Portfolio Exposure as of June 30, 2016¹



Portfolio Exposure as of June 30, 2017¹

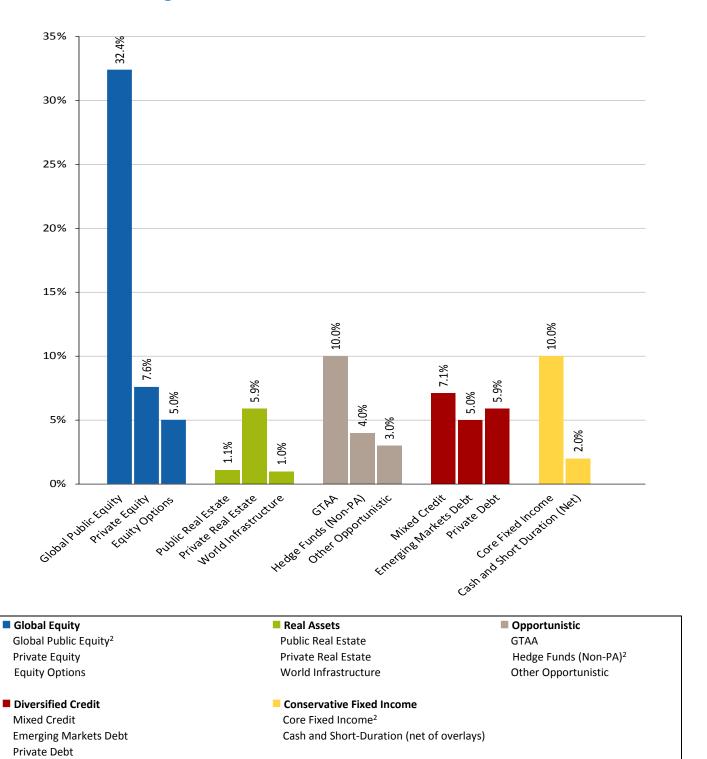




¹Asset class exposures include exposure from RSIC's derivative overlay program.

²Asset classes in which hedge funds can be used. Total hedge fund exposure cannot exceed 20% of total Plan assets.

Target Asset Allocation as of June 30, 2017¹



¹Target Asset Allocation reflects the policy targets that were adopted by the Commission and in effect at the end of fiscal year 2017. The target weights to Private Equity, Private Debt, and Private Real Estate are equal to their actual weights, reported by the custodial bank, as of the prior month end.

²Asset classes in which hedge funds can be used. Total hedge fund exposure cannot exceed 20% of total Plan assets.

Certificate of Achievement

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the South Carolina Retirement Systems for its Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2016. This was the 30th consecutive year that the Retirement Systems has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe that our current comprehensive annual financial report continues to meet the Certificate of Achievement Program's requirements, and we are submitting it to GFOA to determine its eligibility for another certificate.

Public Pension Standards Award

The South Carolina Retirement Systems received the Public Pension Coordinating Council's Public Pension Standards Award in 2017 for the 14th consecutive year in recognition of meeting professional plan design and administration standards. The Public Pension Coordinating Council is a confederation of the National Association of State Retirement Administrators, the National Conference on Public Employee Retirement Systems, and the National Council on Teacher Retirement.

Acknowledgments

The compilation of this report reflects the combined efforts of the staff of PEBA functioning under your leadership. The report is intended to provide comprehensive and reliable information about the Retirement Systems, to demonstrate compliance with legal provisions, and to allow for the evaluation of responsible stewardship of the trust funds of the Retirement Systems.

We express our gratitude to the members of the S.C. State Fiscal Accountability Authority, PEBA's Board of Directors, the S.C. General Assembly, the RSIC, the staff, the consultants, and the many people who have worked so diligently to assure the continued successful operation of the Retirement Systems for the members we serve.

Respectfully submitted,

Peggy G. Boykin, CPA

Executive Director

Travis J. Turner, CPA, CISA

Chief Financial Officer

ammy B. Nichols, CPA

Retirement Finance Director





Governing Board and Administration as of Issuance

S.C. Public Employee Benefit Authority Board of Directors

John A. Sowards, *Chairman* Audie M. Penn

Frank W. Fusco Charles "Chuck" Richardson

Stephen M. Heisler Alex Shissias
Sheriff Leon Lott David J. Tigges
Steve A. Matthews Ed Walton

Joe W. "Rocky" Pearce, Jr.

Retirement System Investment Commission¹

Dr. Rebecca M. Gunnlaugsson, *Chair*Peggy G. Boykin, CPA

Reynolds Williams, J.D., CFP

Peggy G. Boykin, CPA

Allen R. Gillespie, CFA

Vacant – To be appointed by the Governor

Edward N. Giobbe, MBA

Vacant – To be appointed by the State Treasurer

¹Refer to pages 110-114 for a list of investment managers and fees.

Custodial Bank Investment Consultants

BNY Mellon Asset Servicing Meketa Investment Group
Albourne America, LLC

Consulting Actuaries

Gabriel Roeder Smith & Company

S.C. Public Employee Benefit Authority Executive Management

Peggy G. Boykin, CPA, Executive Director

Sarah Niegsch Corbett, CPA, Chief Operating Officer

Travis J. Turner, CPA, Chief Financial Officer

John E. Page, CIA, CISA, Director of Internal Audit

Stephen Van Camp, J.D., General Counsel

Gwen Bynoe, Governmental Affairs

Robin E. Tester, Healthcare Policy Director

James Manning, Risk Management and Compliance Director

Heather Muller, Board Liaison

Retirement System Investment Commission Executive Management

Michael Hitchcock, Chief Executive Officer

Geoffrey Berg, CFA, Chief Investment Officer

Betsy Burn, Chief Legal Officer

Andrew Chernick, CPA, CAIA, Chief Operating Officer

S.C. Public Employee Benefit Authority staff responsible for compilation of CAFR

Tammy B. Nichols, CPA, Retirement Finance Director

Danielle M. Quattlebaum, CPA, Retirement Systems Finance

Faith K. Wright, Retirement Systems Finance

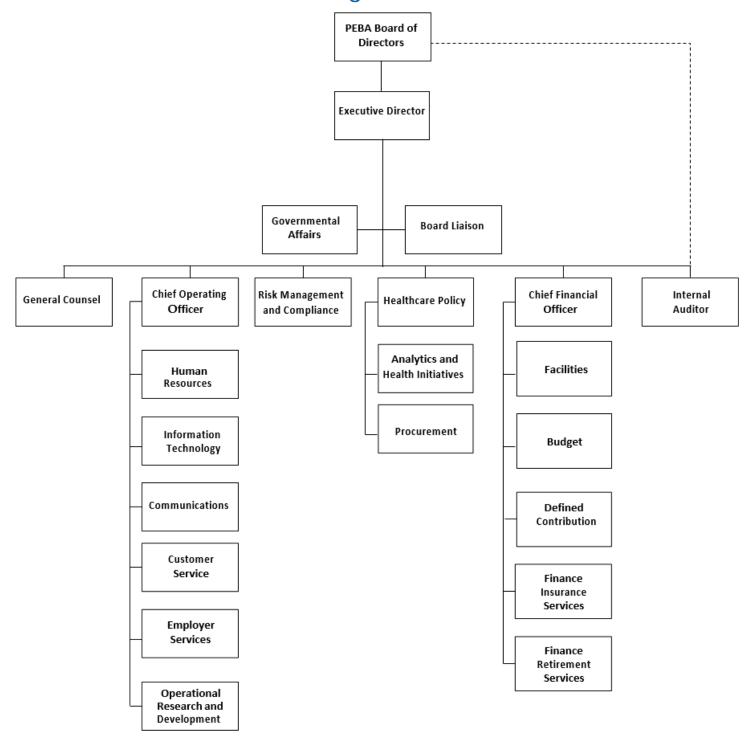
Evan Mitchell, CPA, Retirement Systems Finance

Megan B. Lightle, Communications Director

Angie Warren, Communications Manager

Heather H. Young, Communications Manager

S.C. PEBA Organizational Chart



Organizational Description

The structural organization of the South Carolina Public Employee Benefit Authority (PEBA) is depicted in the organizational chart on page 21. A brief description of the primary functions performed by each department follows:

Governmental Affairs

Serves as liaison to the SC General Assembly. Provides research and assistance to legislative staff in the provisions of retirement and health benefits, both in the service of constituents and legislation governing the agency.

General Counsel

Provides consultation to agency leadership and staff concerning the operation and compliance of governmental employee retirement and insurance benefit plans. Represents the agency in matters at the administrative, trial and appellate levels, and coordinates associated outside legal counsel.

Chief Operating Officer

Provides leadership and oversight of internal operations and administrative functions to include customer service, employer services, information technology, communications and human resources. Directs operational research and development and the development and implementation of agency strategic plans.

Risk Management and Compliance

Leads the agency in the development, implementation and monitoring of enterprise compliance programs and policies. Oversees information security and privacy programs. Develops and implements an enterprise risk management framework.

Healthcare Policy

Directs healthcare policy for the public employee insurance benefits package. Oversees the research, analysis, and pricing of the State Health Plan. Directs contract and plan compliance in offering the most cost effective options while providing maximum benefit within regulatory requirements.

Chief Financial Officer

Directs the financial activity and financial reporting of the retirement plans and insurance benefits offered to public employees. Provides oversight and leadership to the financial operations of insurance benefits and Other Post Employment Benefit trusts, five defined benefit plans, a defined contribution plan and the deferred compensation program.

Internal Audit

Responsible to the Board of Directors for providing independent analysis and assurance of agency processes, policies and internal controls

Financial Section





CliffonLarsonAllen LLP

INDEPENDENT AUDITORS' REPORT

The Honorable Henry D. McMaster, Governor Mr. George L. Kennedy, CPA, State Auditor and Board of Directors South Carolina Public Employee Benefit Authority Columbia, South Carolina

Report on the Financial Statements

We have audited the accompanying financial statements of the South Carolina Retirement Systems (the Systems), as administered by the South Carolina Public Employee Benefit Authority, which comprise the statement of fiduciary net position as of June 30, 2017, and the related statement of changes in fiduciary net position for the year then ended, and the related notes to the financial statements, as listed in the table of contents.

Management's Responsibility for the Financial Statements

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

Auditors' 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 and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. 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 auditors' 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 Systems as of June 30, 2017, and the respective changes in its financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Report on Summarized Comparative Information

We have previously audited the Systems' 2016 financial statements, and we expressed an unmodified audit opinion on those audited financial statements in our report dated October 12, 2016. In our opinion, the summarized comparative information presented herein as of and for the year ended June 30, 2016 is consistent, in all material respects, with the audited financial statements from which it has been derived.

Emphasis of Matter

The financial statements include alternative investments valued at \$8.9 billion (approximately 30% percent of total net position). As explained in Note 1, their fair values have been estimated by management in the absence of readily determinable fair values. Management's estimates are based on information provided by the fund managers or the general partners. Our opinion is not modified with respect to this matter.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and the schedules of changes in employers' net pension liability, employers' contributions and investment returns and related notes, as listed in the table of contents, be presented to supplement the financial statements. Such information, although not a part of the financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the financial statements, and other knowledge we obtained during our audit of the financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming an opinion on the Systems' financial statements. The other supplementary information, as listed in the table of contents, is presented for purposes of additional analysis and is not a required part of the financial statements.

The other 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 financial statements. Such information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing

standards generally accepted in the United States of America. In our opinion, the other supplementary information is fairly stated, in all material respects, in relation to the financial statements as a whole.

The introductory, investment, actuarial and statistical sections, as listed in the table of contents, have not been subjected to the auditing procedures applied in the audit of the financial statements, and accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 13, 2017 on our consideration of the Systems' internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the South Carolina Retirement Systems' internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Systems' internal control over financial reporting and compliance.

CliftonLarsonAllen LLP

Clifton Larson Allen LLP

Baltimore, Maryland October 13, 2017



Management's Discussion and Analysis

This section presents management's discussion and analysis of the financial position and performance for the year ended June 30, 2017, for the South Carolina Retirement Systems' pension trust funds (Systems), and is offered as an introduction and analytical overview. This narrative is intended as a supplement and should be read in conjunction with the financial statements and other information presented in the *Comprehensive Annual Financial Report*.

The Systems' financial statements provide information about the activities of the five defined benefit pension plans administered, which are listed below, in addition to comparative summary information about the activities of the Systems as a whole:

- South Carolina Retirement System (SCRS) A member contributory multiple-employer plan covering teachers, as well as state and municipal employees;
- Police Officers Retirement System (PORS) A member contributory multiple-employer plan covering state and local law enforcement personnel and firefighters;
- The Retirement System for Members of the General Assembly (GARS) A member contributory plan
 providing benefits to members of the South Carolina General Assembly, which is closed to persons first
 elected to the South Carolina General Assembly at or after the general election in November 2012;
- The Retirement System for Judges and Solicitors (JSRS) A member contributory plan covering Judges,
 Solicitors, Public Defenders and Administrative Law Judges; and
- South Carolina National Guard Supplemental Retirement Plan (SCNG) A non-contributory supplemental benefit plan for members of the South Carolina National Guard.

Overview of the Financial Statements

The Systems represents the collective retirement funds that are held in a group trust for the plans and are protected by the state's constitution. PEBA, which was created July 1, 2012, administers the various retirement systems and retirement programs managed by its Retirement Division. PEBA has an 11-member Board of Directors, appointed by the Governor and General Assembly leadership, which serves as co-trustee and co-fiduciary of the systems and the trust funds. By law, the State Fiscal Accountability Authority (SFAA), which consists of five elected officials, also reviews certain PEBA Board decisions regarding the funding of the Systems and serves as a co-trustee of the Systems in conducting that review. Effective on July 1, 2017, the Retirement System Funding and Administration Act of 2017 assigned the PEBA Board of Directors as the Custodian of the Retirement Trust Funds and assigned SC PEBA and the Retirement Systems Investment Commission (RSIC) as co-trustees of the Retirement Trust Funds.

PEBA is considered a division of the primary government of the state of South Carolina and therefore, retirement trust fund financial information is also included in the comprehensive annual financial report of the state. Financial statements prepared on behalf of the Systems, include the following information, for the fiscal year ended June 30, 2017, with combined total comparative information for the fiscal year ended June 30, 2016:

- Statement of Fiduciary Net Position
- Statement of Changes in Fiduciary Net Position
- Notes to the Financial Statements
- Required Supplementary Information
- Other Supplementary Information

The Statement of Fiduciary Net Position presents the Systems' assets and liabilities and the resulting net position restricted for pensions. This statement reflects a year-end snapshot of the Systems' investments, at fair value, along with cash and short-term investments, receivables and other assets and liabilities.

The Statement of Changes in Fiduciary Net Position presents information showing how the Systems' net positions restricted for pensions changed during the year. This statement includes additions for contributions by members and employers and investment earnings (losses) and deductions for retirement benefit payments, refunded contributions, death benefit payments and administrative expenses.

Notes to the Financial Statements are an integral part of the basic financial statements and provide additional information that is necessary in order to gain a comprehensive understanding of data reported in the basic financial statements.

Required Supplementary Information presents schedules pertaining to the employers' net pension liability, changes in employers' net pension liability, employers' contributions, and the money-weighted rate of return on investments. These schedules are intended to provide additional information useful in evaluating the condition of the systems.

Other Supplementary Information includes Schedules of Changes in Fiduciary Net Position by System, as well as Schedules of Administrative Expenses, Professional and Consultant Fees and Investment Fees and Expenses.

Financial Highlights

- On April 25, 2017, Governor Henry McMaster signed into law the Retirement Funding and Administration Act of 2017 which became effective on July 1, 2017. This legislation increased the employer and employee contribution rates, established a ceiling on the employee contribution rate, lowered the assumed rate of return, required a scheduled reduction of the funding period, and addressed various governance issues including the assignment of the PEBA Board as custodian of the retirement trust funds and assignment of the Retirement System Investment Commission (RSIC) and PEBA as co-trustees. Additional information regarding this legislation is available on our public website.
- Total fiduciary net position for all five defined benefit plans of the Systems combined, increased by \$2.15 billion, which was nearly 8 percent from the prior fiscal year ended June 30, 2016. The net position of the plans is impacted by contributions paid into the plans, investment performance, and benefit payments out of the system. It is important to note that growth in fiduciary net position depends on both investment performance and contributions from employers and employees. The plans are in a net cash outflow position with benefit payments exceeding contributions; therefore, investment performance must first make up this gap before fiduciary net position can grow. The increase in net position from \$28.1 billion to \$30.2 billion was primarily attributable to positive investment performance.
- For the fiscal year ended June 30, 2017, the net of fee investment performance return on a time-weighted basis reported by the custodial bank, the Bank of New York Mellon (BNYM), was 11.88 percent. This net return reflects performance of the Systems, at the aggregate for the pooled investments of the consolidated pension trust funds, after the deduction for manager fees and/or expenses. This fiscal year's performance was well above the prior year's return of negative 0.39 percent and is considered an actuarial gain since it was more than the 7.50 percent actuarial investment rate of return assumed for the plans. The recent pension legislation lowers the assumed rate of return to 7.25 percent effective July 1, 2017. Actuarial valuations are prepared for each of the plans annually for funding purposes, at which time gains and losses from investment performance are recognized using

smoothing methods that help mitigate sharply fluctuating market returns over a long-term period. The smoothing methodology offsets both deferred investment gains and losses against each other and is intended to produce an actuarial asset value that should be fairly consistent with market value during periods of ordinary investment returns. Smoothing investment performance avoids overreaction to inherently volatile conditions that would otherwise overweight the effects of a single year of performance that may potentially be reversed in subsequent years. Actuarial smoothing is intended to result in more stable contribution rates and a more level funded status, and is also a valuable methodology for governmental entities because it permits participating employers to plan their budgets over more than one fiscal year.

- The increase in the dollar amount of employee and employer contributions collected compared to the prior year, is largely attributable to increased contribution rates. Effective July 1, 2016 employee and employer contribution rates for both SCRS and PORS increased by 0.50 percent of pay. This resulted in SCRS employee and employer rates increasing to 8.66 percent and 11.56 percent, respectively, and similarly, the employee and employer contribution rates for PORS increased to 9.24 percent and 14.24 percent. These employer rates are inclusive of contributions for the death benefit plan which are only applicable to participating employers. Pension reform legislation again increases, but also established a ceiling for employee contribution rates. Effective July 1, 2017, employee rates will increase to a capped rate of 9.00 percent for SCRS and 9.75 percent for PORS. The legislation also increases employer contribution rates effective July 1, 2017 for both SCRS and PORS by 2 percentage points to 13.56 percent and 16.24 percent, respectively. Employer contribution rates are scheduled to continue to increase by a minimum of 1 percentage point each year through July 1, 2022, and further, if the scheduled contributions are not sufficient to meet the funding periods set for the applicable year. The board shall increase the employer contribution rates as necessary to meet the amortization period set in statute.
- Annuity benefits increased 8.4 percent from the prior fiscal year. The total number of retired members and beneficiaries receiving monthly retirement benefits from the Systems increased from approximately 161,000 to nearly 164,000 annuitants during the year. Additionally, monthly benefits increased because eligible SCRS and PORS annuitant payees received an annual benefit adjustment equal to the lesser of 1 percent or \$500 on July 1, 2016. Lastly, the largest effect was the surge in the amount of distributions paid to members ending their participation in the Teacher and Employee Retention Incentive (TERI) program which produced an increase of nearly \$138 million in annuity benefits paid in the form of TERI distributions.
- TERI is a deferred retirement option program under SCRS that allows retired members to accumulate annuity benefits on a deferred basis for up to 60 months while continuing employment. Legislation enacted in 2012 closes the TERI program to all participants effective June 30, 2018, so some SCRS members may not be eligible to participate in TERI for the full 60 months. Current TERI participants are required to pay the same pre-tax member contribution rate on compensation earned, in the same manner as active members. TERI participants do not earn additional service credit or interest on their TERI account but are eligible to receive benefit increases in the same manner as other annuitant payees. At the end of the member's TERI participation and upon termination from employment, funds are distributed from the member's accumulated TERI account. The number of members actively participating in TERI decreased from 8,922 at fiscal year-end 2016 to 7,210 at fiscal year-end 2017. There was a decrease in the overall number of members participating in the program at year-end compared to the prior year, which caused a spike in the number of distributions paid as well as an increase in the liability for deferred retirement benefits payable at June 30, 2017. The increase of almost 33 percent occurred because there was a higher volume of TERI distributions payable at fiscal year-end.

- The Systems' investment portfolio participates in a securities lending program, managed by BNYM (Securities Lending Program), whereby securities are loaned for the purpose of generating additional income. As the securities lending agent, BNYM is responsible for making loans of securities on a collateralized basis from the Systems' investment portfolio to various third party broker-dealers and financial institutions. The gross securities lending revenue for the fiscal year was \$773 thousand, a decrease from \$946 thousand in the prior year. As reported by BNYM, at June 30, 2017, the fair value of securities on loan was \$164.65 million, the fair value of the invested cash collateral was \$123.27 million, and the securities lending obligations were \$170.46 million. The reported difference in the value of the invested cash collateral and the securities lending obligations in the securities lending program, is reflected within "Other Liabilities" on the Retirement Systems' Statement of Fiduciary Net Position, consistent with information reported on accounting statements provided by BNYM as both the custodial bank and securities lending agent.
- The Retirement System Investment Commission (Commission as the governing body, RSIC as the agency), created by the General Assembly in 2005 as co-fiduciary for the Systems, has exclusive authority to invest and manage the retirement trust funds' assets. The recent legislation assigns RSIC as co-trustee of the retirement trust funds along with the SC PEBA Board, effective July 1, 2017. The Commission operates pursuant to statutory provisions and under governance policies that allow for a diverse asset allocation and which afford the RSIC and its Chief Investment Officer (CIO) discretion and flexibility to quickly react to changes in market conditions. The investment portfolio is structured to focus on ensuring the long-term stability of the plans, seeking superior returns at acceptable levels of risk.
- The Commission is responsible for establishing and managing a target asset allocation that manages risk, ensures liquidity, and affords flexibility to quickly react to changes in market conditions. The fiscal year 2017 policy allocation, including target weights, ranges and benchmarks for each asset class, was adopted by the Commission on April 21, 2016 for the fiscal year beginning July 1, 2016. The asset allocation features a long-term policy allocation over a 2 year glide path. Additionally, target weights to Private Equity, Private Debt, and Private Real Estate will be their actual weights, reported by the custodial bank, as of the prior month end. The fiscal year 2017 asset allocation policy also introduces a portable alpha strategy which requires a reclassification of hedge funds into two new asset classes; Hedge Funds (Portable Alpha) and Hedge Funds (non-PA). Total hedge funds, across both of these new asset classes, is limited to a maximum of 20 percent of total assets.
- Through June 30, 2017, the Office of the State Treasurer contracted with BNYM to serve as custodial bank for the Retirement Systems' funds. Under a provision of the contract for custody services and in an effort to maintain transparency, BNYM directly invoices the trust funds on a quarterly basis for both custody and other ancillary services utilized. PEBA and the RSIC jointly verify that invoices accurately reflect services rendered and are appropriate for the period before amounts are paid. The trust funds' securities lending revenue account is the initial source from which such costs are paid to the custodial agent. The pension reform legislation, effective July 1, 2017, gives the Commission the exclusive authority to select the custodial bank, provided, however, that PEBA is a third-party beneficiary of the contract with the custodial bank with full rights to information under them.
- All investment manager fees, whether directly invoiced or deducted from the fund Net Asset Value
 (NAV) on a net of fee basis, are classified and reported as investment expense in the Statement of
 Changes in Fiduciary Net Position. The RSIC provides the non-invoiced fee information to PEBA on an
 annual basis so that amounts can be reclassified and reported in the Systems' financial
 statements. There is no industry standard for reporting pension plan investment fees and expenses;

therefore, in order to compare investment expenses as reported by the Systems with investment management costs reported by other public pension plans, an understanding of the actual fees and expenses included in any comparative report is necessary. Total investment manager fees for fiscal year 2017 were \$302.9 million, which includes both invoiced amounts and amounts deducted on a net of fee basis, but excludes bank fees and investment expenses. Comparatively, total investment manager fees were 23 percent higher than the prior fiscal year 2016 total of \$246.9 million. The increase is largely attributed to higher performance fees as a result of strong performance for the fiscal year in the asset classes that incur performance fees. This strong performance is evidenced in this year's Plan return of 11.88 percent verses negative 0.39 percent the prior fiscal year.

- PEBA is the governing body responsible for administration of both the state's retirement plans and the
 employee insurance program, and its administrative costs for retirement operations are funded from
 the retirement trust funds. Administrative expenses for fiscal year 2017 increased 3.5 percent from the
 prior year. This change resulted from slightly higher wages and benefits for employees, increased
 information technology costs, increased medical and health services, costs incurred for the Systems' first
 actuarial audit and other miscellaneous cost increases related to expenses associated with building and
 facilities maintenance.
- During the year, PEBA drafted, finalized, and issued a request for proposal to secure a client services vendor for oversight project management, program management, detailed requirements definition, testing support, data bridging support, data conversion support, and change management activity associated with our future benefit administration system solution. An intent to award was issued in January 2017, however, the award was protested. The Procurement Review Panel held a hearing on the protest on October 10, 2017 and issued its decision in PEBA's favor which means PEBA will be able to proceed with awarding the client services vendor contract. PEBA also hired a contract project manager to assist with the management of the project, and the project was named "peba:connect." PEBA personnel drafted business requirements and began data analysis in preparation for peba:connect.
- PEBA works closely with our consulting actuary and external audit firm to ensure employers are
 provided with the information needed to prepare their GAAP based financial statements in compliance
 with Governmental Accounting Standards Board (GASB) Statements No. 68 and 71. We have a dedicated
 GASB section on our public website where information has been posted for participating employers and
 auditors to access financial statement disclosure information related to their proportionate share of the
 net pension liability, deferred inflows and outflows of resources and pension expense.
- Gabriel Roeder Smith & Company (GRS) is on retainer as the Systems' consulting actuary for the defined benefit retirement plans. South Carolina state statute requires that the actuary complete a valuation of the Systems annually and conduct an experience study at least once in each five year period. The most recent valuation reports were issued as of July 1, 2016. GRS completed an actuarial experience study on the Systems with the report issued as of July 1, 2015. As a result of the experience study, the actuary recommended adjustments to the actuarial assumptions, which included salary increase, payroll growth, mortality, retirement, terminations, refunds, disability, inflation, and asset valuation method. These recommended assumption and method changes were adopted and incorporated into the July 1, 2016 valuations. The experience study also recommended reducing the long-term investment rate of return assumption; however, this assumption is set in state statute by the General Assembly. As part of the Retirement System Funding and Administration Act of 2017, the assumed rate of return was reduced from 7.50 to 7.25 percent effective July 1, 2017. The 7.25 percent assumed rate of return expires on July 1, 2021, and every four years thereafter, and as such, the PEBA Board, in consultation with the

- Commission, must propose an assumed annual rate of return based on recommendations of the Board's actuary.
- In addition to the deferred retirement options available in SCRS and JSRS, all of the plans (excluding SCNG) include certain provisions that allow retired members to return to covered employment while also receiving a monthly retirement benefit. For members who return to work for a covered employer after retirement, the employer must pay the corresponding employer contribution for that particular plan, and under SCRS, PORS and JSRS, retired members are also required to pay the same employee contribution as an active member in the same position. TERI participants receive a deferred accrual for the full monthly retirement benefit, with no limit on the amount of wages they may earn from employment. Collectively among the plans, the most recent actuarial valuations reported that approximately 25,000 retirees have returned to covered employment while receiving monthly retirement benefits, either directly or as a TERI participant, thereby making up approximately 9 percent of the total public workforce covered by the Systems. The historical return-to-work provisions, coupled with demographic changes of the membership, caused concern over the long-term stability of the plan so legislation enacted in 2012 addressed retiree return-to-work provisions. Generally, SCRS and PORS members who retire after January 1, 2013, and who have not yet reached age 62 (SCRS) or age 57 (PORS) at retirement, and who have been retired at least 30 calendar days, may return to work for a participating employer, but their receipt of benefits is subject to an earnings limit of \$10,000 on wages earned each calendar year from covered employment.
- Qualified Excess Benefit Arrangement (QEBA) trust funds are maintained for each of the plans administered by the Retirement Division of PEBA. A QEBA is intended to be a qualified governmental excess benefit arrangement within the meaning of Section 415(m)(3) of the Internal Revenue Code and provides the part of a participant's retirement benefit that would have been paid by the Systems had there been no limitations under Code Section 415(b). The QEBA plans are separate and apart from the funds comprising the retirement funds and are not commingled with assets of those funds. The QEBA is not prefunded; therefore, no assets or income are accumulated to pay future benefits. The amount of required contributions necessary to pay benefits under the plans is determined and deposited to the trust funds on an as-needed basis. Employer contributions to fund the excess benefits are not credited or commingled with contributions paid into and accumulated in the retirement funds.
- The GARS was closed to persons first elected to the South Carolina General Assembly at or after the general election in November 2012. Members so elected to the Senate or House of Representatives have the option to join SCRS, the State Optional Retirement Program (State ORP), which is a defined contribution plan, or they may elect to opt out of a plan altogether. As a result of the plan closure, employee contributions to the GARS plan should decrease over time, while employer contributions may experience a general increase over time.

Condensed Financial Information

The Systems' financial stability and long-term ability to sufficiently fund retirement benefits payable to members in future years is viable because funds are accumulated and invested on a regular and systematic basis. The five defined benefit funds provide lifetime annuity benefits to vested eligible members who serve as employees of state, public school, higher education institution, local and municipal government, state legislative, judicial, and South Carolina National Guard employers.

The Systems' principal sources of revenue are employee contributions, employer contributions and investment earnings. Required annual contributions for the SCNG are funded through an annual state appropriation. Expenses of the Systems consist primarily of payments of monthly annuities to retired members or their

beneficiaries, and refunds of member contributions and interest that are paid subsequent to termination of employment. The defined benefit plans include an incidental death benefit for both active and retired members and an accidental death plan for members of the PORS.

PEBA sponsors the State ORP which is a defined contribution plan administered by four different third party record keepers. The State ORP is an alternative plan available to newly hired employees of state agencies, institutions of higher education, public school districts and individuals first elected to the General Assembly at or after the general election in November 2012. In addition, PEBA is responsible for the South Carolina Deferred Compensation Plan (401k and 457 plans) administered by a third party record keeper. Both State ORP and Deferred Compensation assets are outside the group trust fund of the Systems and are not invested or managed by the RSIC. Summary comparative financial statements of the SC Retirement Systems' pension trust funds are presented on the following page.

Fiduciary Net Position

As of June 30

(Amounts expressed in thousands)

Assets	2017	2016	(Decrease)	% Increase / (Decrease)
Cash & cash equivalents, receivables,		<u> </u>		
and prepaid expenses	\$ 3,712,085	\$ 4,979,349	\$ (1,267,264)	(25.45%)
Investments, at fair value	27,995,164	24,790,218	3,204,946	12.93%
Securities lending cash collateral invested	123,275	55,737	67,538	121.17%
Capital Assets, net of accumulated depreciation	2,537	2,741	(204)	(7.44%)
Total Assets	31,833,061	29,828,045	2,005,016	6.72%
Liabilities				
Deferred retirement benefits	95,327	71,693	23,634	32.97%
Obligations under securities lending	123,275	55,737	67,538	121.17%
Other accounts payable	1,397,531	1,633,962	(236,431)	(14.47%)
Total Liabilities	1,616,133	1,761,392	(145,259)	(8.25%)
Total Fiduciary Net Position Restricted for Pensions	\$ 30,216,928	\$ 28,066,653	\$ 2,150,275	7.66%

Changes in Fiduciary Net Position

Years Ended June 30

(Amounts expressed in thousands)

			Increase /	% Increase /
Additions	2017	2016	(Decrease)	(Decrease)
Employee contributions	\$ 957,779	\$ 871,936	\$ 85,843	9.85%
Employer contributions	1,375,926	1,262,585	113,341	8.98%
State-appropriated contributions	4,591	4,591	-	0.00%
Net Investment income (loss)	3,269,390	(191,288)	3,460,678	1809.15%
Other income	1,958	1,830	128	6.99%
Total Additions	5,609,644	1,949,654	3,659,990	187.73%
Deductions				
Annuity benefits	3,291,197	3,036,279	254,918	8.40%
Refunds	125,762	112,954	12,808	11.34%
Death benefits	25,133	22,771	2,362	10.37%
Administrative & other expenses	17,277	16,687	590	3.54%
Total Deductions	3,459,369	3,188,691	270,678	8.49%
Increase (Decrease) in Fiduciary Net Position	2,150,275	(1,239,037)	3,389,312	273.54%
Beginning Fiduciary Net Position	28,066,653	29,305,690	(1,239,037)	(4.23%)
Ending Fiduciary Net Position Restricted for Pensions	\$ 30,216,928	\$ 28,066,653	\$ 2,150,275	7.66%

Analysis of the Plan's Financial Position and Results of Operations

On a combined basis, the defined benefit plans' fiduciary net position was valued at \$30.2 billion at June 30, 2017, passing the milestone of \$30 billion for the first time. This represents an increase of nearly 8 percent in net position from the previous fiscal year-end. The increase in the fiduciary net position from the prior fiscal year was primarily attributable to strong performance of the plan investments which exceeded the impact of net negative cash flows that result from benefit payments exceeding contributions received.

During fiscal year 2017, the total dollar amount of contributions added to the plans increased in accordance with the increase in employer and employee contribution rates, while monthly retirement benefits paid to annuitants also increased compared with the previous fiscal year. As previously referenced, the increase in benefits was attributable to a benefit adjustments granted to eligible SCRS and PORS annuity recipients effective July 1, 2016, an increase in the number of annuitants and a spike in the amount of distributions paid to members ending their participation in the TERI program.

The Plan experienced strong performance for the fiscal year having a net of fee performance return, on a time-weighted basis, of a positive 11.88 percent. The Plan outperformed the policy benchmark, which returned a positive 11.82 percent, by 6 basis points. Additionally, the Plan exceeded the actuarial assumed rate of return of 7.50 percent by 438 basis points.

The Equity asset classes were the highest performing segment on an absolute basis, however, relative to their benchmarks they underperformed. Global Public Equity, which is the largest allocation in the Plan, was the highest performer returning 18.86 percent but falling short of its benchmark by 15 basis points. Private Equity and Equity Options were the next best performers gaining 15.17 percent and 11.49 percent but under performing their benchmarks by 467 basis points and 57 basis points respectively. The Diversified Credit segment of the Plan had the next best performing asset classes with Mixed Credit returning 10.50 percent and outperforming its benchmark by 46 basis points, Private Debt returning 10.01 percent but falling 121 basis points short of its benchmark, and Emerging Debt beating its benchmark by 219 basis points by returning 8.45 percent for the fiscal year. Hedge Funds (non-PA) and Private Real Estate also performed well closing the year with an 8.54 percent return and an 8.22 percent return respectively, however, both fell short of their benchmarks.

The Other Opportunistic asset class, which was comprised entirely of Commodities exposure, had a challenging year returning a negative 5.05 percent but still outperformed the sector as measured by the Bloomberg Commodity Index which returned a negative 6.50 for the fiscal year. The only other asset classes to have negative performance were Public Real Estate closing the year with a negative 2.60 percent return, trailing its benchmark by 90 basis points, and Core Fixed Income which matched its benchmark with a negative 0.31 percent return.

Actuarial Valuations and Funding Progress

Actuarial valuations are performed annually by an external consulting actuary for each of the five defined benefit plans to ensure applicable contribution rates satisfy the funding parameters specified in Title 9 of the South Carolina Code of Laws. Under these provisions, SCRS and PORS contribution requirements must be sufficient to maintain an amortization period for the financing of the unfunded actuarial accrued liability (UAAL) over a period that does not exceed 30 years. Additionally, the Board is prohibited from decreasing the SCRS and PORS contribution rates until the funded ratio is at least 90 percent. The Retirement System Funding and Administration Act of 2017, which became effective on July 1, 2017, schedules the amortization period to be reduced by one year for each of the next 10 years to 20 years and prohibits the Board from decreasing the

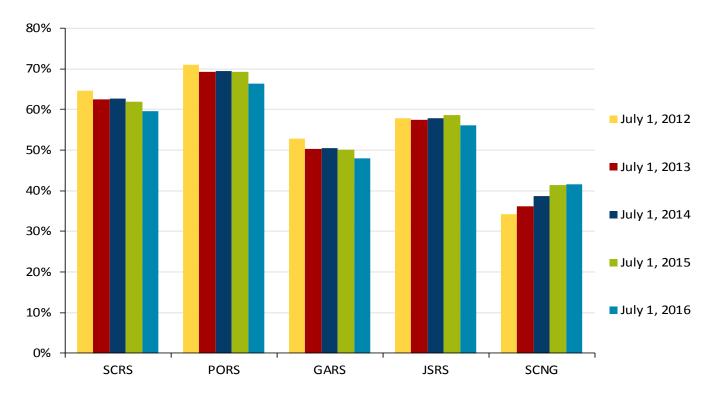
contribution rates until the funded ratio is at least 85 percent. Over time, and provided investment performance meets long-term assumptions and there are no future benefit enhancements, the funded ratio of each system is expected to increase and eventually attain 100 percent.

For the most recently completed valuations, prepared as of July 1, 2016, investment performance for purposes of developing the actuarially determined contribution rate, was recognized using the smoothing method which recognizes each year's investment gain or loss, determined on a market value of assets basis, over a closed five year period at a rate of 20 percent per year. This asset valuation method mitigates the short term impact of market volatility and allows changes in market conditions to be recognized (smoothed) over a longer period of time. In contrast, the actuarial valuation performed for the purpose of providing accounting information under GASB Statement No. 67, plan fiduciary net position is determined on a market value basis. Since the percentage of plan fiduciary net position to the total pension liability in the actuarial valuation prepared for accounting purposes uses the market value of assets rather than the actuarial value of assets, there can be significant short-term volatility in that ratio.

For the actuarial valuations prepared for funding purposes, the funded ratio (the ratio of the actuarial assets to the actuarial accrued liability) is a standard of measure of a plan's funded status. It provides an indication as to whether sufficient assets are accumulated to pay benefits when due; the greater the level of funding, the larger the ratio of assets to liabilities. The funding progress of a retirement system should be reviewed over a multi-year period, such as five to ten years, to identify trends in the system's funded status. The most recent actuarial valuations prepared for funding purposes as of July 1, 2016, showed a slight decrease in funded status for SCRS, PORS, GARS and JSRS while the funded ratio for SCNG stayed relatively level. The changes in the levels of funding do not affect the availability of funds or resources for future use and actuarial projections indicate that unfunded liabilities should be amortized and funded within the guidelines established in Title 9 of the SC Code of Laws. The actuarial funded ratios of the five plans are presented in the graph on the following page. Percentages for GASB Statement No. 67 reporting purposes can be found in the Schedule of Employers' Net Pension Liability beginning on Page 83.

Actuarial Funded Ratios

(Actuarial assets as a percentage of actuarial accrued liabilities)



Requests for Information

This financial report is designed to provide a general overview of the Retirement Systems' financial activities and position for all interested parties. Questions concerning any of the information provided in this report or requests for additional financial information should be directed to the South Carolina PEBA, Attn: Retirement Systems Finance, 202 Arbor Lake Drive, Columbia, SC 29223. Inquiries may also be made at www.peba.sc.gov or by calling 888.260.9430.

South Carolina Retirement Systems Statement of Fiduciary Net Position

June 30, 2017 With comparative totals for June 30, 2016 (Amounts expressed in thousands)

	SCRS	PORS	GARS	JSRS	SCNG	TOTAL	2016 TOTAL
ASSETS							
Cash and cash equivalents	\$ 2,252,408	\$ 373,757	\$ 4,637	\$ 15,938	\$ 4,533	\$ 2,651,273	\$ 3,967,278
Receivables							
Due from other systems		397				397	302
Employee and employer contributions	229,633	26,152	42	662	2	256,491	233,308
Accrued investment income	36,851	6,108	44	217	36	43,256	38,738
Unsettled investment sales	644,299	106,647	746	3,729	592	756,013	695,775
Other investment receivables	690	114	1	4		809	40,363
Total receivables	911,473	139,418	833	4,612	630	1,056,966	1,008,486
Investments, at fair value							
Short-term securities	556,942	92,187	645	3,224	512	653,510	791,658
Fixed Income	5,447,691	901,724	6,306	31,535	5,005	6,392,261	5,847,385
Global Public Equity	8,470,968	1,402,149	9,806	49,037	7,782	9,939,742	7,200,985
Global Tactical Asset Allocation	1,760,338	291,378	2,037	10,190	1,618	2,065,561	1,963,716
Alternatives	7,622,442	1,261,697	8,823	44,125	7,003	8,944,090	8,986,474
Total investments	23,858,381	3,949,135	27,617	138,111	21,920	27,995,164	24,790,218
Securities lending cash collateral invested	105,059	17,390	122	608	96	123,275	55,737
Prepaid expenses	3,301	519	4	19	3	3,846	3,585
Capital assets, net of accumulated depreciation	2,281	238	7	11		2,537	2,741
Total assets	27,132,903	4,480,457	33,220	159,299	27,182	31,833,061	29,828,045
LIABILITIES							
Due to other systems	397					397	302
Accounts payable - unsettled investment purchases	1,066,187	176,480	1,234	6,172	980	1,251,053	1,439,720
Investment fees payable	10,881	1,801	12	63	10	12,767	9,439
Obligations under securities lending	105,059	17,390	122	608	96	123,275	55,737
Deferred retirement benefits	95,327					95,327	71,693
Due to Employee Insurance Program	62,733	1,205				63,938	65,258
Benefits payable	3,764	431	2		11	4,208	3,845
Other liabilities	55,726	9,027	61	305	49	65,168	115,398
Total liabilities	1,400,074	206,334	1,431	7,148	1,146	1,616,133	1,761,392
Net Position Restricted for Pensions	\$ 25,732,829	\$ 4,274,123	\$ 31,789	\$ 152,151	\$ 26,036	\$ 30,216,928	\$ 28,066,653

The accompanying notes are an integral part of these financial statements.

South Carolina Retirement Systems Statement of Changes in Fiduciary Net Position

Year Ended June 30, 2017 With comparative totals for the year ended June 30, 2016 (Amounts expressed in thousands)

	SCRS	PORS	GARS	JSRS	SCNG	TOTAL	2016 TOTAL
Additions							
Contributions							
Employee	\$ 826,543	\$ 127,840	\$ 468	\$ 2,928	\$ -	\$ 957,779	\$ 871,936
Employer	1,168,847	192,006	4,539	10,534		1,375,926	1,262,585
State appropriated					4,591	4,591	4,591
Total contributions	1,995,390	319,846	5,007	13,462	4,591	2,338,296	2,139,112
Investment Income				•		1	
Net appreciation (depreciation)							
in fair value of investments	2,641,803	431,853	3,130	15,462	2,384	3,094,632	(324,236)
Interest and dividend income	416,925	68,259	510	2,488	395	488,577	394,631
Investment expense	(268,173)	(44,306)	(312)	(1,555)	(246)	(314,592)	(262,629)
Net income (loss) from investing activities	2,790,555	455,806	3,328	16,395	2,533	3,268,617	(192,234)
From securities lending activities:							
Securities lending income	488	80	1	3		572	188
Securities lending borrower rebates	172	28		1		201	758
Net income from securities lending activities	660	108	1	4	-	773	946
Total net investment income (loss)	2,791,215	455,914	3,329	16,399	2,533	3,269,390	(191,288)
Supplemental retirement benefits funded by the State	393	15				408	452
Transfers of contributions from other Systems		1,278	19	253		1,550	1,378
Total additions	4,786,998	777,053	8,355	30,114	7,124	5,609,644	1,949,654
Deductions							
Refunds of contributions to members	105,169	19,964		629		125,762	112,954
Transfers of contributions to other Systems	1,550					1,550	1,378
Regular retirement benefits	2,574,859	352,986	6,678	17,679	4,425	2,956,627	2,839,393
Deferred retirement benefits	332,414					332,414	194,844
Supplemental retirement benefits	393	15				408	452
Death Benefits	22,677	2,104	59	293		25,133	22,771
Accidental death benefits		1,748				1,748	1,590
Depreciation	236	32		1		269	310
Administrative expenses	13,233	2,117	17	78	13	15,458	14,999
Total deductions	3,050,531	378,966	6,754	18,680	4,438	3,459,369	3,188,691
Net increase (decrease) in Net Position	1,736,467	398,087	1,601	11,434	2,686	2,150,275	(1,239,037)
Net Position Restricted for Pensions							
Beginning of year	23,996,362	3,876,036	30,188	140,717	23,350	28,066,653	29,305,690
End of year	\$ 25,732,829	\$ 4,274,123	\$ 31,789	\$ 152,151	\$ 26,036	\$ 30,216,928	\$ 28,066,653

The accompanying notes are an integral part of these financial statements.

South Carolina Retirement Systems

Notes to Financial Statements

I. Basis of Presentation and Summary of Significant Accounting Policies

Description of the Entity

The South Carolina Public Employee Benefit Authority (PEBA) was created by the S.C. General Assembly effective July 1, 2012. PEBA is a state agency responsible for the administration and management of the state's employee insurance programs and retirement systems.

The governing board of the authority is a board of directors consisting of 11 members. The membership composition is as follows:

- three non-representative members appointed by the Governor;
- two members appointed by the President Pro Tempore of the Senate, one a nonrepresentative member and one a representative member who is either an active or retired member of the South Carolina Police Officers Retirement System (PORS);
- two members appointed by the Chairman of the Senate Finance Committee, one a non-representative member and one a representative member who is a retired member of the South Carolina Retirement System (SCRS);
- two members appointed by the Speaker of the House of Representatives, one a nonrepresentative member and one a representative member who must be a state employee who is an active contributing member of SCRS;
- two members appointed by the Chairman of the House Ways and Means Committee, one a non-representative member and one a representative member who is an active contributing member of SCRS employed by a public school district.

Non-representative members of the PEBA board may not belong to the classes of employees and retirees from which representative members must be appointed. Individuals appointed to the PEBA board must possesses certain qualifications.

Members of the PEBA board serve for terms of two years and until their successors are appointed and qualify. Vacancies on the PEBA Board must be filled within 60 days in the manner of the original appointment for the unexpired portion of the term. Terms commence on July 1 of even numbered years. The Retirement System Funding and Administration Act effective July 1, 2017, changed the PEBA board members' terms to four years, on a staggered schedule.

The financial statements of the South Carolina Retirement Systems (Systems) presented herein contain the following funds:

Pension Trust Funds

- South Carolina Retirement System (SCRS)
- South Carolina Police Officers Retirement System (PORS)
- Retirement System for Members of the General Assembly of the State of South Carolina (GARS)
- Retirement System for Judges and Solicitors of the State of South Carolina (JSRS)
- South Carolina National Guard Supplemental Retirement Plan (SCNG)

Each pension trust fund operates on an autonomous basis; funds may not be utilized for any purpose other than for the benefit of each plan's participants.

The Systems are part of the state of South Carolina's primary government and are included in the Comprehensive Annual Financial Report of the State of South Carolina. In making this

determination, factors of financial accountability, governance and fiduciary responsibility of the state were considered.

Plan Descriptions

The South Carolina Retirement System (SCRS), a cost—sharing multiple-employer defined benefit pension plan, was established effective July 1, 1945, pursuant to the provisions of Section 9-1-20 of the South Carolina Code of Laws for the purpose of providing retirement allowances and other benefits for public school districts and employees of the state and political subdivisions thereof.

The South Carolina Police Officers Retirement System (PORS), a cost—sharing multiple-employer defined benefit pension plan, was established effective July 1, 1962, pursuant to the provisions of Section 9-11-20 of the South Carolina Code of Laws for the purpose of providing retirement allowances and other benefits for police officers and firemen of the state and its political subdivisions.

The Retirement System for Members of the General Assembly of the State of South Carolina (GARS), a single-employer defined benefit pension plan, was created effective January 1, 1966, pursuant to the provisions of Section 9-9-20 of the South Carolina

Code of Laws to provide retirement allowances and other benefits for members of the General Assembly. Retirement reform legislation closed the plan to individuals newly elected to the Senate or House of Representatives on or after the general election of 2012.

The Retirement System for Judges and Solicitors of the State of South Carolina (JSRS), a single-employer defined benefit pension plan, was created effective July 1, 1979, pursuant to the provisions of Section 9-8-20 of the South Carolina Code of Laws for the purpose of providing retirement allowances and other benefits for judges, solicitors, circuit public defenders of the state and administrative law court judges.

The South Carolina National Guard Supplemental Retirement Plan (SCNG), a single-employer defined benefit pension plan, was created effective July 1, 1975, and is governed by the provisions of Section 9-10-30 of the South Carolina Code of Laws for the purpose of providing supplemental retirement benefits to certain members who served in the South Carolina National Guard.

A summary of information related to participating employers and members follows (dollars amounts expressed in thousands). This information was reported in the most recent actuarial valuation reports dated July 1, 2016.

,	State ¹	School	Other	Total
SCRS	24	447	F.7.0	724
Number of Employers Annual Covered Payroll for Active Members	31 \$2,321,521	117 \$3,357,550	576 \$2,211,836	724 \$7,890,907
	72,321,321	75,557,550	72,211,030	\$7,650,507
Average Number of: Active Contributing Members	51,018	84,916	54,989	190,923
Retirees and beneficiaries currently receiving benefits	31,010	04,510	34,303	137,855
Terminated members entitled to but not yet receiving benefits ²				169,806
Total SCRS Membership				498,584
PORS				
Number of Employers	17	1	269	287
Annual Covered Payroll for Active Members	\$361,065	\$ -	\$775,337	\$1,136,402
Average Number of:				
Active Contributing Members	9,134		17,517	26,651
Retirees and beneficiaries currently receiving benefits				17,288
Terminated members entitled to but not yet receiving benefits ²				15,001
Total PORS Membership				58,940
GARS	_			
Number of Employers Annual Covered Payroll for Active Members	1 \$2,316			1 \$2,316
	\$2,310			\$2,310
Average Number of: Active Members	102			102
Retirees and beneficiaries currently receiving benefits	358			358
Terminated members entitled to but not yet receiving benefits	32			32
Total GARS Membership	492			492
JSRS				
Number of Employers	1			1
Annual Covered Payroll for Active Members	\$21,958			\$21,958
Average Number of:				
Active Members (160 positions)	157			157
Retirees and beneficiaries currently receiving benefits	210			210
Terminated members entitled to but not yet receiving benefits	369			369
Total JSRS Membership	309			309
SCNG	4			4
Number of Employers	1			1
Annual Covered Payroll for Active Members ³	N/A			N/A
Average Number of:				
Active Members	12,253 4,709			12,253
Retirees and beneficiaries currently receiving benefits Terminated members entitled to but not yet receiving benefits	4,709 1,969			4,709 1,969
Total SCNG Membership	18,931			18,931
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¹ Although there are 89 SCRS and 26 PORS state agencies that report separately, the State is considered the primary government and therefore, all state agencies are included as a single employer. Quasi-State Agencies and Institutions of Higher Education are counted as separate employers and included within the "State" category.

² Employee Class not determinable from data.

³ Annual covered payroll is not applicable for SCNG because it is a non-contributory plan.

Membership

Membership requirements are prescribed in Title 9 of the South Carolina Code of Laws. A brief summary of the requirements under each system is presented below.

SCRS

Generally, all employees of covered employers are required to participate in and contribute to the system as a condition of employment. This plan covers general employees and teachers and individuals newly elected to the South Carolina General Assembly beginning with the November 2012 general election. A member of the system with an effective date of membership prior to July 1, 2012, is a Class Two member. A member of the system with an effective date of membership on or after July 1, 2012, is a Class Three member.

State ORP

As an alternative to membership in SCRS, newly hired state, public school and higher education employees and individuals newly elected to the S.C. General Assembly beginning with the November 2012 general election have the option to participate in the State Optional Retirement Program (State ORP), which is a defined contribution plan. State ORP participants direct the investment of their funds into an account administered by one of four third party administrators. The Retirement Systems assumes no liability for State ORP benefits. Rather, the benefits are the liability of the four third party administrators. For this reason, State ORP assets are not considered part of the Systems for financial statement purposes.

Contributions to the State ORP are at the same rates as SCRS. A direct remittance is required from the employers to the investment providers for the employee contribution (8.66 percent) and a portion of the employer contribution (5 percent). A direct remittance is also required to SCRS for a portion of the employer contribution (6.41 percent) and a death benefit contribution (0.15 percent), which is retained by SCRS. The activity for the State ORP is as follows:

State ORP Activity

Year Ended June 30, 2017 (Dollar amounts expressed in thousands)

Active Contributing Participants	28,291
Annual Covered Payroll	\$1,422,607
Employer Contributions Retained	
by SCRS	\$91,189
Death Benefit Contributions	
Retained by SCRS	\$2,134
Employee Contributions to	
Investment Providers	\$123,198
Employer Contributions to	
Investment Providers	\$71,130

PORS

To be eligible for PORS membership, an employee must be required by the terms of his employment, by election or appointment, to preserve public order, protect life and property and detect crimes in the state; to prevent and control property destruction by fire; be a coroner in a full-time permanent position; or be a peace officer employed by the Department of Corrections, the Department of Juvenile Justice or the Department of Mental Health. Probate judges and coroners may elect membership in PORS. Magistrates are required to participate in PORS for service as a magistrate. PORS members, other than magistrates and probate judges, must also earn at least \$2,000 per year and devote at least 1,600 hours per year to this work, unless exempted by statute. A member of the system with an effective date of membership prior to July 1, 2012, is a Class Two member. A member of the system with an effective date of membership on or after July 1, 2012, is a Class Three member.

GARS

Members of the Senate and the House of Representatives who were first elected to office prior to November 2012 are required to participate in and contribute to the system upon taking office as a member of the S.C. General Assembly; however, the GARS plan is closed to individuals newly elected to the Senate or the House of Representatives on or after the general election of 2012.

JSRS

All solicitors, circuit public defenders, judges of a Circuit, Family or Administrative Law Court and justices of the Court of Appeals and Supreme Court are required to participate in and contribute to the system upon taking office.

SCNG

Membership consists of individuals who serve in the South Carolina National Guard.

Pension Benefits

Benefit terms are prescribed in Title 9 of the South Carolina Code of Laws. PEBA does not have the authority to establish or amend benefit terms without a change in the code of laws. Key elements of the benefit calculation include the benefit multiplier, years of service and average final compensation/current annual salary. A brief summary of benefit terms for each system is presented below.

SCRS

A Class II member who has separated from service with at least five years of earned service is eligible for a monthly pension at age 65 or with 28 years credited service regardless of age. A member may elect early retirement with reduced pension benefits payable at age 55 with 25 years of service credit. A Class III member who has separated from service with at least eight years of earned service is eligible for a monthly pension subject to the Rule of 90 requirement that the total of the member's age and the member's creditable service equals at least 90 years. Both Class II and Class III members are eligible to receive a reduced deferred annuity at age 60 if they satisfy the five- or eight-year earned service requirement, respectively. An incidental death benefit is also available to beneficiaries of active and retired members of employers who participate in the death benefit program.

The annual retirement allowance of eligible retirees or their surviving annuitants is increased by the lesser of one percent or five hundred dollars every July 1. Only those annuitants in receipt of a benefit on July 1 of the preceding year are eligible to

receive the increase. Members who retire under the early retirement provisions at age 55 with 25 years of service are not eligible for the benefit adjustment until the second July 1 after reaching age 60 or the second July 1 after the date they would have had 28 years of service credit had they not retired.

PORS

A Class II member who has separated from service with at least five years of earned service is eligible for a monthly pension at age 55 or with 25 years of service regardless of age. A Class III member who has separated from service with at least eight years of earned service is eligible for a monthly pension at age 55 or with 27 years of service regardless of age. Both Class II and Class III members are eligible to receive a deferred annuity at age 55 with five or eight years earned service, respectively. An incidental death benefit is also available to beneficiaries of active and retired members of employers who participate in the death benefit program. Accidental death benefits are also provided upon the death of an active member working for a covered employer whose death was a natural and proximate result of an injury incurred while in the performance of duty.

The retirement allowance of eligible retirees or their surviving annuitants is increased by the lesser of one percent or five hundred dollars every July 1. Only those annuitants in receipt of a benefit on July 1 of the preceding year are eligible to receive the increase.

GARS

A member is eligible for a monthly pension at age 60 or with 30 years credited service. A member who has attained age 70 or has 30 years of service is eligible to retire and draw an annuity while continuing to serve in the General Assembly. A member is eligible to receive a deferred annuity with eight years of service. An incidental death benefit is also provided to beneficiaries of deceased members. Retirees receive increases in benefits based upon increases in the current salary of their respective active positions. GARS is closed to new members and persons newly elected to the General

Assembly must elect membership in SCRS or State ORP or may elect non-membership.

JSRS

A pension benefit is payable at age 70 with 15 years' service, age 65 with 20 years' service, 25 years' service regardless of age for a judge or 24 years of service for a solicitor or a circuit public defender regardless of age. A judge is vested in the system after attaining 10 years of earned service in the position of judge, and a solicitor or a circuit public defender is vested in the system after attaining eight years of earned service. A member who has reached maximum eligibility is eligible to retire and draw an annuity while continuing to serve. An incidental death benefit is also provided to members. Retirees receive increases in benefits based upon increases in the current salary of their respective active positions.

SCNG

A monthly pension is payable at age 60 provided the member was honorably discharged from active duty with at least 20 years of total creditable military service. Of the 20 years total creditable military service, at least 15 must have been served in the South Carolina National Guard. Additionally, the final 10 years of military service must have been served in the South Carolina National Guard. No cost-of-living increases are provided to SCNG retirees.

Summary of Significant Accounting Policies

Fund Structure

The Systems' accounts are maintained in accordance with the principles of fund accounting. This is the procedure whereby resources for various purposes are classified for accounting and reporting purposes into funds that are in accordance with specified activities or objectives. Separate pension trust funds (fiduciary fund type) are used to account for the activities of the five public employee retirement systems administered by PEBA.

Adoption of New Accounting Standard

Governmental Accounting Standards Board (GASB) Statement No. 82, Pension Issues - an amendment of GASB Statements No. 67, No. 68, and No. 73 is effective for financial statements for periods beginning after June 15, 2016 and has been implemented in the financial statements prepared by PEBA's Retirement Division for the fiscal year ended June 30, 2017. This statement addresses issues regarding (1) the presentation of payrollrelated measures in required supplementary information, (2) the selection of assumptions and the treatment of deviations from the guidance in an Actuarial Standard of Practice for financial reporting purposes, and (3) the classification of payments made by employers to satisfy employee (plan member) contribution requirements.

Basis of Accounting

All funds are accounted for using the economic resources measurement focus and the accrual basis of accounting. Revenues are recognized when earned and expenses are recognized when incurred. Benefit and refund expenses are recognized when due and payable in accordance with the terms of the plan.

Administrative Expenses

Administrative expenses are the responsibility of PEBA and all accounting and corresponding disclosures relating to administrative expenses of the pension trust funds are included in the financial statements of the Systems.

Administrative expenses for the Retirement Division of PEBA are funded by the trust funds and are allocated to each of the systems based on its respective portion of total assets in order to pay for actual expenses incurred during the year.

Administrative expenses of the Systems include the Retirement Division's portion of PEBA employee salaries and associated employee benefits, costs for contractual services and operating expenses.

Cash and Cash Equivalents

The Systems classify cash on deposit in financial institutions and cash on deposit in the state's internal cash management pool as cash and cash equivalents. The Systems also classify certain short-term highly liquid securities as cash equivalents if the date of maturity is three months or less from the date of acquisition. Forward contracts, foreign currencies and cash held in the strategic partnership accounts are also classified as cash and cash equivalents.

Contributions

Employee, employer, and state-appropriated contributions are recognized in the period in which they are due, pursuant to formal commitments as well as statutory requirements. Substantially all contributions receivable are collected within 30 days of year-end.

Investments

The Retirement System Investment Commission (Commission as the governing body, RSIC as the agency), created by the General Assembly in 2005 as co-fiduciary for the Retirement Systems, has exclusive authority for investing and managing all assets held in trust for the South Carolina Retirement Systems. Funds of the Systems are invested subject to the terms, conditions, limitations, and restrictions imposed by Section 16, Article X of the South Carolina Constitution and Section 9-1-1310 (B) and Title 9 Chapter 16 of the South Carolina Code of Laws. The funds and assets of the various state retirement systems are not funds of the State, but are instead held in trust as provided in Section 9-16-20.

The RSIC is structured as a separate state agency reporting to a body of appointed and ex officio Commissioners. Effective July 1, 2017, the Retirement System Funding and Administration Act of 2017 changed the composition of the Commission from seven members to eight members as provided in Section 9-16-315 of the South Carolina Code of Laws. The Commission employs a Chief Executive Officer (CEO) who serves as the agency head of the RSIC, reporting directly to

the Commission, with functions and duties assigned by the Commission. The CEO is the central source of authority and accountability for administrative decisions. In addition, the Commission employs a Chief Investment Officer (CIO) who reports to the CEO for day to day oversight and strategic planning objectives and who serves as the central source of authority and accountability for all investment decisions delegated to him or her by the Commission and state law. The Commission also engages external investment consultants, who are accountable to the Commission, to work collaboratively with RSIC staff to fulfill the duties of investing the Systems' portfolio.

As with PEBA, administrative costs of the RSIC are paid from the Systems, and its budget is funded entirely from the trust fund. Costs include Commissioner, investment and administrative staff compensation, as well as other contractual services and other operating expenses. The allocation of those administrative costs is based upon a proration of such costs in proportion to the assets that each system bears to the total assets of all of the systems for the most recently completed fiscal year.

The Commission has adopted a Statement of Investment Objectives and Policies (SIOP) in order to establish investment and performance objectives, policies and guidelines, roles, responsibilities and delegation of authority for the investment and management of assets of the Systems. The SIOP is reviewed by the Commission at least annually to determine its continued applicability. The SIOP provides the framework pursuant to which the CIO and staff develop the Annual Investment Plan (AIP), which provides a formal plan for investing the Systems' assets to achieve the Commission's investment objectives and mission. As required by Section 9-16-320, the AIP must be submitted to the Commission no later than April 1 of each year, and the Commission must meet no later than May 1 of each year to adopt the proposed AIP for the following fiscal year. The Commission may amend the SIOP and AIP during the fiscal year as it deems appropriate.

The Commission manages Systems' assets with a long-term horizon and seeks to earn an appropriate risk-adjusted return in consideration of the specific goals, needs and circumstances of the Systems and in the exclusive interest of members of the Systems. Among the decisions the Commission can make, asset allocation has the most significant impact on the portfolio's return, risk profile and cost and is reviewed annually as part of the development of the AIP. Based on the Commission's determination of the appropriate risk tolerance for the Portfolio and its long-term return expectations, it has authorized the following Policy Asset Allocation, including target allocations and ranges for each asset class that were adopted by the Commission for the fiscal year beginning July 1, 2016.

Asset Class	Policy Allocation	Minimum	Maximum
Equity	45.0%	42.0%	52.0%
Global Equity ^{1,2}	31.0%	22.0%	36.0%
Private Equity ^{2,3}	9.0%	6.0%	12.0%
Equity Options Strategies	5.0%	0.0%	6.0%
Conservative Fixed Income	12.0%	10.0%	16.0%
Cash & Short Duration	2.0%	0.0%	7.0%
Core Bonds	10.0%	5.0%	15.0%
Diversified Credit	18.0%	15.0%	21.0%
Mixed Credit 1,2	6.0%	4.0%	8.0%
Private Debt ^{1,2,3}	7.0%	4.0%	10.0%
Emerging Markets Debt ¹	5.0%	3.0%	7.0%
Opportunistic	17.0%	9.0%	19.0%
GAA ¹	10.0%	3.0%	12.0%
Hedge Funds (Non-PA) ¹	4.0%	0.0%	8.0%
Other Opportunistic Strategies ¹	3.0%	0.0%	5.0%
Real Assets	8.0%	8.0%	14.0%
Real Estate-REITs ²	2.0%	0.0%	3.0%
Real Estate- Private ^{2,3}	5.0%	4.0%	10.0%
World Infrastructure	1.0%	0.0%	5.0%

¹Asset classes in which hedge funds can be used, including for portable alpha implementation, up to a maximum of 20% of total assets.

Portable Alpha Strategies are capped at 12% of total assets.

At June 30, 2017, the Systems held no investments (other than those issued or explicitly guaranteed by the U.S. government) in any one organization that represent 5 percent or more of the plans' fiduciary net position.

For the year ended June 30, 2017, the annual money weighted rate of return on plan investments was 11.88 percent. The money weighted rate of return expresses investment performance, net of investment expenses, adjusted for the changing amounts actually invested.

As a fiduciary acting on behalf of the Systems, the Commission enters into individual agreements with various investment managers to invest plan assets. As of June 30, 2017, legal agreements were in place with 134 investment managers.

Effective July 1, 2017, the Retirement System Funding and Administration Act of 2017 assigned the PEBA Board as custodian of the retirement trust funds and designated PEBA and RSIC as co-trustees of the retirement trust funds. The legislation also gave the Commission the exclusive authority to select the custodial bank provided that PEBA is a third-party beneficiary of the contract with the custodial bank, with full rights to information.

BNYM serves as custodial bank of the funds of the Retirement Systems. Assets also include investments not custodied at BNYM, such as funds held in partnerships, commingled accounts, or private market asset classes. The custodial bank provides consolidated recordkeeping services which reflects these securities not held in the custodian's vault or for which the custodian or its nominee is not the registered owner (non-custody securities).

For financial statement purposes, investments of the pension trust funds are reported at fair value in the Statement of Fiduciary Net Position. Short term securities categorized as cash or cash equivalents are reported at fair value. The Systems hold domestic and global equity securities which are traded on organized exchanges. Equity securities which are held by the custodian are valued by the custodian using the last reported price on a trade-

²The target weights to Private Equity, Private Debt and Real Estate will be equal to their actual weights as of prior month end. Private Equity and Public Equity will combine for 40% of the entire portfolio. Private Debt and Mixed Credit will combine for 13% of the entire portfolio. Private Real Estate and Real Estate (REITs) will combine for 7% of the entire portfolio.

³Staff and Consultant will notify the Commission if Private Markets assets exceed 25% of total assets.

date basis. The Systems hold domestic and global fixed income securities. The custodian values those fixed income assets which are held in custody based upon prices received from external pricing sources and in accordance with the custodian's pricing policy. Commingled funds, which may contain equity and/or fixed income securities are priced based upon the manager's pricing policy and a Net Asset Value (NAV) is provided to the custodian. Private market investments typically utilize a limited partnership structure and private equity funds normally invest in companies that are not publicly traded on a stock exchange. The fair values of alternative investments including private equity, private debt, hedge funds, real estate and commodities, for which daily market values are not readily ascertainable, are valued in good faith based on the most recent financial information available for the underlying companies and reported by the investment managers at the measurement date, adjusted for subsequent cash flow activities through June 30, 2017. The issue of valuation of investments is a joint responsibility of PEBA and RSIC. Staff from both offices serve on a joint valuation committee which oversees and reviews the valuations provided by the custodian and/or the external investment managers. The estimated fair value of these investments is intended to approximate, but at times may differ, from values that would have been used had a liquid public market existed.

Investments are combined in a commingled investment pool, with each system owning a percentage of the pool and receiving proportionate investment income in accordance with their respective ownership percentage. Investment income includes realized and unrealized appreciation (depreciation) in the fair value of investments, interest income earned, dividend income earned, less investment expense, plus income from securities lending activities, less deductions for securities lending expenses.

While some investment managers submit invoices for their investment management fees, a significant number of investment managers provide account

valuations on a net of fee basis. For greater transparency, the RSIC makes a good faith attempt to account for netted fee amounts that are not necessarily readily separable. Through a concerted effort with Conifer Financial Services, administrator for the RSIC, the collection, aggregation, and reasonability testing enables RSIC to provide the Retirement Division of PEBA with a collection of investment fees and expenses that would not otherwise be disclosed. The RSIC provides the netted fee information to PEBA on an annual basis so that amounts can be reclassified and reported in the financial statements on the Investment expense line of the Statement of Changes in Fiduciary Net Position. The non-invoiced investment expenses include amounts for investment management fees, performance fees (including carried interest allocations), and other investment expenses such as organizational expenses in limited partnership structures. The total netted fee amounts reported also reflect the impact of any offsets which have the effect of reducing this total. There is no industry standard for reporting pension plan investment fees and expenses, therefore, in order to compare investment expense as reported by the Systems with investment management costs reported by other public pension plans, an understanding of the actual fees and expenses included in any comparative reports is necessary. Additionally, investment plan composition directly influences the fee structure of a plan and adjustments for differences in plan asset allocation are necessary before conclusions can be reached from such comparisons.

Capital Assets

Capital Assets are valued at historical cost or at estimated historical cost if actual historical cost data is not available. The costs of normal maintenance and repairs that do not significantly add to the value of an asset or materially extend the asset's useful life are not capitalized. An individual asset is capitalized and reported if it has an estimated useful life of at least two years and a historical cost as follows: more than \$5 thousand for machinery and equipment; more than \$100

thousand for buildings. All land and non-depreciable land improvements are capitalized and reported, regardless of cost. Depreciation is recorded using

the straight line method over the useful life of 40 years for the building and a useful life of 2 to 25 years for equipment. Land is not depreciated.

II. Contributions and Reserves.

Contributions to each of the Plans are prescribed in Title 9 of the South Carolina Code of Laws. The board may increase the percentage rate in SCRS and PORS employer and employee contributions on the basis of the actuarial valuations, but any such increase may not result in a differential between the employee and employer contribution rate that exceeds 2.9 percent of earnable compensation for SCRS and 5 percent for PORS. An increase in the contribution rates adopted by the board may not provide for an increase of more than one-half of one percent in any one year. If the scheduled employee and employer contributions provided in statute or the rates last adopted by the board are insufficient to maintain a thirty year amortization schedule of the unfunded liabilities of the plans, the board shall increase the contribution rates in equal percentage amounts for the employer and employee as necessary to maintain the thirty-year amortization period; this increase is not limited to one-half of one percent per year.

If the most recent annual actuarial valuation of the Systems for funding purposes shows a ratio of the actuarial value of system assets to the actuarial accrued liability of the system (the funded ratio) that is equal to or greater than ninety percent, then the board, effective on the following July first, may decrease the then current contribution rates upon making a finding that the decrease will not result in a funded ratio of less than ninety percent. Any decrease in contribution rates must maintain the 2.9 and 5 percent differentials between the SCRS and PORS employer and employee contribution rates respectively. If contribution rates are decreased pursuant to this provision, and the most recent annual actuarial valuation of the system shows a funded ratio of less than ninety percent, then effective on the following July first, and annually thereafter as necessary, the board shall

increase the then current contribution rates until a subsequent annual actuarial valuation of the system shows a funded ratio that is equal to or greater than 90 percent.

The Retirement System Funding and Administration Act increases employer contribution rates to 13.56 percent for SCRS and 16.24 percent for PORS, effective July 1, 2017. It also removes the 2.9 percent and 5 percent differential and increases and establishes a ceiling on employee contribution rates at 9 percent and 9.75 percent for SCRS and PORS respectively. The employer contribution rates will continue to increase annually by 1 percent through July 1, 2022. The legislation's ultimate scheduled employer rate is 18.56 percent for SCRS and 21.24 percent for PORS. The amortization period is scheduled to be reduced one year for each of the next 10 years to a twenty year amortization schedule. The recent pension reform legislation also changes the long term funded ratio requirement from ninety to eighty-five.

Following are the employee and employer contribution rates applicable for fiscal year 2017:

System	Employee Rate	Employer Rate
SCRS	8.66%	11.56% ¹
PORS	9.24%	14.24%²
GARS	11%	\$4,539,000 ³
JSRS	10%	47.97% ¹
SCNG	Non-contributory	\$4,590,798

¹ Includes incidental death benefit contribution rate of 0.15%

Employer contributions for the GARS and SCNG are determined by the Systems' actuary on an annual basis. SCNG employer contributions are provided annually by state appropriations.

² Includes incidental death benefit and accidental death benefit contribution rate of 0.20% each

³ Includes incidental death benefit contributions as determined by the Systems' actuary

In accordance with South Carolina State Statute, an additional employer contribution surcharge of 5.33 percent of covered payroll was added to the contribution rate applicable to state and local governments, and public school entities covered by the state's retiree health and dental insurance benefits. This assessment is for the purpose of providing retiree health and dental insurance coverage and is not a part of the actuarially established contribution rates for retirement funding purposes. Functioning as a collecting agent, SCRS and PORS collected (amounts expressed in thousands) \$427,156 and \$22,539 respectively in retiree insurance surcharges (\$75,415 of which was applicable to the State ORP) and remitted these funds to the South Carolina Retiree Health Insurance Trust Fund.

The Fiduciary Net Position of each plan is required to be reserved in the following accounts:

The **Employer Fund** is credited with all employer retirement contributions and investment earnings of the Employee and Employer Funds. Upon retirement, all member account balances and contributions are transferred to the Employer Fund as all annuities and administrative expenses of the Systems are paid from this fund. Annual state appropriations to the SCNG are also credited to the Employer Fund to provide funding for the payment of annuities and administrative expenses.

The **Employee Fund** is credited with all contributions made by active members of the Systems. Interest is credited to each active member's individual account at an annual rate of 4 percent by transferring funds from the Employer Fund to the Employee Fund. At termination of employment prior to retirement, employee contributions and accumulated interest may be refunded from this fund to the member. At retirement, employee contributions and interest are transferred from the Employee Fund to the Employer Fund for subsequent payment of benefits.

The **Death Benefit Fund**, an incidental death program within SCRS and PORS, is the fund to which participating employers contribute for the purpose of providing a death benefit to active and retired members of the Systems. Employer contributions and investment earnings are credited to this fund. Death benefit payments and administrative expenses are paid from this fund. The assets in the Death Benefits Fund are not held separately in a dedicated trust for the sole purpose of paying death benefits to beneficiaries of deceased members. These benefits are considered allowable within the defined benefit plans and are held within the pension trust funds.

The Accidental Death Fund (PORS only) is the fund to which participating employers contribute for the purpose of providing annuity benefits to beneficiaries of members of PORS killed in the actual performance of their duties. This fund and its benefits are independent of any other retirement benefit available to the beneficiary. Employer contributions and investment earnings are credited to this fund. Monthly survivor annuities and administrative expenses are paid from this fund.

The Qualified Excess Benefit Arrangement (QEBA) Fund is the fund from which annuity benefits are paid when a benefit recipient exceeds IRC Section 415(b) limits on the amount an individual may receive annually from a qualified defined benefit pension plan. Employer contributions are credited to this fund on an as-needed basis in an amount equivalent to the amount of funds necessary to pay benefits out of the QEBA fund due to IRC Section 415(b) limitations. Accordingly, the QEBA fund currently has no reserve balance.

Balances in the respective reserves at June 30, 2017, were as follows (amounts expressed in thousands):

	SCRS	PORS	GARS	JSRS	SCNG	Total
Employee Fund	\$ 7,938,850	\$ 1,034,549	\$ 6,852	\$ 26,703	\$ -	\$ 9,006,954
Employer Fund	17,669,644	3,139,081	24,937	125,448	26,036	20,985,146
Death Benefit Fund	124,335	42,956				167,291
Accidental Death Fund		57,537				57,537
QEBA Fund						
Totals	\$ 25,732,829	\$ 4,274,123	\$31,789	\$ 152,151	\$ 26,036	\$ 30,216,928

III. Deposits and Investments

Deposit and Investment Risk Disclosures

The tables presented on Pages 59-62 include disclosures of credit and interest rate risk in accordance with Governmental Accounting Standards Board Statement 40 and are designed to inform financial statement users about investment risks which could affect the Systems' ability to meet its obligations. These tables classify investments by risk type, while the financial statements disclose investments by asset class. The table amounts were provided by the custodian bank and agree to the Statement of Fiduciary Net Position.

Custodial Credit Risk

Deposits

Custodial credit risk for deposits is the risk that in the event of a bank failure, the Systems' deposits may not be recovered. As prescribed by South Carolina state statute, the State Treasurer is the custodian of all deposits and is responsible for securing all deposits held by banks. These deposits are secured by deposit insurance, surety bonds, collateral securities, or letters of credit to protect the state against loss in the event of insolvency or liquidation of the institution or for any other cause. Deposits are insured by the Federal Deposit Insurance Corporation (FDIC) up to \$250,000 or collateralized with securities held by the state or its agent in the South Carolina State Treasurer's name as custodian. The Retirement System Funding and Administration Act of 2017 designates the PEBA board as custodian effective July 1, 2017.

The Systems' deposits at June 30, 2017, were as follows (amounts expressed in thousands):

	Carrying Amount
SCRS	\$27,278
PORS	3,031
GARS	62
JSRS	73
SCNG	53
Total	\$30,497

Actual bank balances at June 30, 2017, totaled \$30,583 (amount expressed in thousands).

As of June 30, 2017, cash held by the custodian, in broker and strategic partnerships accounts as well as forward contracts and foreign currencies totaled \$408.5 million. These balances are classified as cash and cash equivalents on the Statement of Fiduciary Net Position.

Investments

Custodial credit risk for investments is the risk that, in the event of a failure of the counterparty, the Systems will not be able to recover the value of the investments or collateral securities that are in the possession of an outside party. Investing for the Systems is governed by Section 16, Article X of the South Carolina Constitution and Section 9-1-1310(B) and Title 9 Section 16 of the South Carolina Code of Laws. Funds held in trust for the Retirement Systems may be invested and reinvested in a variety of instruments including, but not limited to, fixed income instruments of the United States, foreign fixed income obligations, swaps, forward contracts, futures and options, domestic and international equity securities, private equity, real estate, and fund of funds.

The following table presents the fair value of investments as of June 30, 2017:

Statement of Invested Assets

June 30, 2017

(Amounts expressed in thousands)

Investment Type	Fair Value	Investment Type	Fa	ir Value
Short Term Investments		Fixed Income Allocation		
Short Term Investment Funds (U.S. Regulated)	\$ 1,323,167	U.S. Government		
Repurchase Agreements	307,428	U.S. Government Treasuries ¹	\$	266,452
Certificates of Deposit	30,515	U.S. Government Agencies		578,079
Commercial Paper	656,904	Mortgage Backed		
Discount Notes	26,032	Government National Mortgage Association		72,534
U. S. Treasury Bills	272,129	Federal National Mortgage Association		29,044
Global Short Term	3,440	Federal Home Loan Mortgage Association		6,546
Corporate Bonds	5,679	Federal Home Loan Mortgage Association (Multiclass))	14,629
Strategic Partnership Short Duration	239,713	Collateralized Mortgage Obligations		25,027
Options - Cash	740	Municipals		13,486
Futures - Cash	76	Corporate		
Total Short Term Investments	\$ 2,865,823	Corporate Bonds		2,755,797
		Mixed Credit		7,882
Equity Allocation		Asset Backed Securities		430,715
Global Public Equity ²		Private Placements		944,290
Common Stocks	\$ 8,452,520	Yankee Bonds		928
Real Estate Investment Trusts	705,235	Emerging Debt		1,245,242
Preferred	52,730	Options - Fixed Income		851
Convertible Preferred	1,458	Futures - Fixed Income		(1,377
Options - Equity	753,471	Swaps - Fixed Income		2,136
Futures - Equity	(24,645)	Total Fixed Income	\$	6,392,261
Swaps - Equity	(1,027)			
Total Global Public Equity	\$ 9,939,742			
Global Tactical Asset Allocation				
Commingled Funds Balanced	\$ 2,065,561			
Total Global Tactical Asset Allocation	\$ 2,065,561			
Alternatives				
Hedge Funds	\$ 3,033,440			
Private Equity Limited Partnerships	2,322,317			
Private Debt	1,782,647			
Real Estate	1,814,011			
Real Estate				
Swaps - Commodities	(8,325)			

Invested Securities Lending Collateral \$ 123,275

Reconciliation of Statement of Invested Assets (listed above) to the Statement of Fiduciary Net Position

Total Invested Assets	\$ 30,207,477
Short Term Investments classified as Cash & Cash Equivalents on Statement of Fiduciary Net Position	
Short Term Investment Funds (U.S. Regulated)	(1,323,167)
Repurchase Agreements	(307,428)
Certificates of Deposit	(9,400)
Commercial Paper	(562,222)
Discount Notes	(9,280)
Options - Cash	(740)
Futures - Cash	(76)
Total Investments on Statement of Fiduciary Net Position	\$ 27,995,164

¹ U.S. Government Treasuries includes Notes, Bonds, and Treasury Inflation Protected Securities (TIPS).

² RSIC's Public Equity benchmark as of 6/30/2017 is the MSCI All Country World Investable Market Index. The Benchmark is comprised of 52.24% MSCI US Equity, 36.52% MSCI EAFE + CAD, and 11.24% MSCI EM Equity. As of June 30, 2017, RSIC had a NAV of \$4,850,149,291 in Global Equity managers that invest to the MSCI World. The MSCI World is comprised of 59.32% MSCI US and 40.68% MSCI EAFE + CAD.

Fair Value Measurements

The Systems categorize fair value measurements within the fair value hierarchy established by GASB Statement No. 72, Fair Value Measurement and Application. The valuation technique uses a three level hierarchy of inputs to measure the fair value of the asset and gives the highest priority to unadjusted quoted prices in active markets (level 1 measurements) and the lowest priority to unobservable inputs (level 3 measurements). These classifications are summarized as follows:

Level 1 Inputs: Quoted prices (unadjusted) for identical assets or liabilities in active markets that a reporting entity can access at the measurement date.

Level 2 Inputs: Inputs other than quoted prices included within Level 1 that are observable for an asset or liability, either directly or indirectly.

Level 3 Inputs: Unobservable inputs for an asset or liability.

In the event that inputs used to measure the fair value of an asset or liability fall into different levels in the fair value hierarchy, the overall level of the fair value hierarchy in its entirety is determined based on the lowest level input that is significant to the entire valuation. These levels are not necessarily an indication of risk but are based upon the pricing transparency of the investment. In determining the appropriate levels, the Systems performed a detailed analysis of the assets and liabilities that are subject to GASB Statement No. 72.

Fair value of certain investments that do not have a readily determinable fair value is established using net asset value (or its equivalent) as a practical expedient. These investments are not categorized according to the fair value hierarchy.

Investments classified according to the fair value hierarchy are valued according to the pricing policy established by the Plan's custodian bank. Pricing is based primarily on prices from several third-party vendors or other specified alternative sources which are considered to be reliable. Where available, the custodian bank uses more than one vendor for securities of each asset type, class or issue. The price received from a primary source is used in valuation unless a tolerance check, or price challenge, results in the use of a price from a secondary vendor. The Systems may override prices provided by the custodian bank if it is deemed necessary or appropriate.

The Systems have the following recurring fair value measurements as of June 30, 2017 (amounts in thousands):

0			Fair Value			e Measurements Using			
						Significant		ignificant	
				Quoted Prices in Active	Ot	her Observable	Un	observable	
Investments by Fair Value Level	Δ1	t 6/30/2017	IVIa	rkets for Identical Assets (Level 1)		Inputs (Level 2)		Inputs (Level 3)	
Short Term Investments		1 0/30/2017		(Level 1)		(Level 2)		(Level 3)	
Short Term Investment Funds (U. S. Regulated)	\$	1,323,167	\$	1,323,167	\$	-	\$	_	
Repurchase Agreements		307,428				26,600		280,828	
Certificates of Deposit		30,515				30,515			
Commercial Paper		656,904				656,904			
Discount Notes		26,032				26,032			
U. S. Treasury Bills		272,129		272,129					
Global Short Term		3,440				3,440			
Corporate Bonds Total Short Term Investments	\$	5,679 2,625,294		1,595,296	\$	5,679 749,170	\$	280,828	
	<u> </u>	2,023,23 .		1,555,250	Υ	7 13/170	<u> </u>	200,020	
Equity Allocation Global Public Equity									
Common Stocks	\$	4,201,014	\$	4,201,014	\$	-	\$	_	
Real Estate Investment Trusts	*	705,235		705,235	*		•		
Preferred		52,730		6,114		46,616			
Convertible Preferred		1,458				1,458			
Total Global Public Equity	\$	4,960,437	\$	4,912,363	\$	48,074	\$	-	
Fixed Income Allocation									
U. S. Government									
U.S. Government Treasuries		266,452		266,452	\$	-	\$	-	
U.S. Government Agencies		578,079				578,079			
Mortgage Backed									
Government National Mortgage Association		72,534				72,534			
Federal National Mortgage Association		29,044				29,044			
Federal Home Loan Mortgage Association		6,546				6,546			
Federal Home Loan Mortgage Association (Multiclass)		14,629 25,027				14,629 25,027			
Collateralized Mortgage Obligations Municipals		13,486				13,486			
Corporate		13,400				13,400			
Corporate Bonds		2,755,797				2,127,617		628,180	
Asset Backed Securities		430,715				430,715			
Private Placements		944,290				944,290			
Yankee Bonds		928				928			
Total Fixed Income	\$	5,137,527			\$	4,242,895	\$	628,180	
Total Investments by Fair Value Level	\$	12,723,258	_ \$	6,774,111	\$	5,040,139	\$	909,008	
Investments measured at the net asset value (NAV)									
Strategic Partnership Short Duration	\$	239,713							
Global Equity		4,251,506							
Global Tactical Asset Allocation		2,065,561							
Mixed Credit		7,882							
Emerging Debt		1,245,242							
Hedge Funds		3,033,440							
Private Equity Private Debt		2,322,317 1,782,647							
Real Estate		1,782,647							
Total investments measured at the NAV	Ś	16,762,319	_						
Total investments measured at fair value	\$	29,485,577							
Investment derivative instruments									
Short Term Investments									
Options - Cash	\$	740	\$	764	\$	(24)			
Futures - Cash		76		76					
Equity Investments									
Options - Equity		753,471				753,471			
Futures - Equity		(24,645)		(24,645)		// c==:			
Swaps - Equity		(1,027))			(1,027)			
Fixed Income Investments		054		740		405			
Options - Fixed Income		851 (1.277)		746 (1 277)		105			
Futures - Fixed Income		(1,377)		(1,377)		2.126			
Swaps - Fixed Income Alternative Investments		2,136				2,136			
Swaps - Commodities		(8,325))			(8,325)			
Total investment derivative instruments	\$	721,900		(24,436)	\$	746,336	\$	-	
				, , , , , , , , , , , , , , , , , , , ,					
Total Invested Assets	\$	30,207,477	_						

Investments Measured at the Net Asset Value (NAV):

				Redemption	Redemption
	Fair		Unfunded	Frequency (if	Notice
		Value	Commitments ¹	Currently Eligible)	Period
Strategic Partnership Short Duration	\$	239,713	\$ -	Monthly	5 - 10 days
Global Equity		4,251,506		Daily/Monthly	5 - 30 days
Global Tactical Asset Allocation		2,065,561		Monthly/Quarterly	5 - 14 days
Mixed Credit		7,882		Monthly	5 - 30 days
Emerging Debt		1,245,242		Daily/Monthly	10 - 15 days
Hedge Funds		3,033,440		Monthly/Quarterly	2 - 90 days
Private Equity		2,322,317	921,804	Illiquid	Illiquid
Private Debt		1,782,647	1,656,108	Illiquid	Illiquid
Real Estate		1,814,011	812,614	Illiquid	Illiquid
Total investments measured at the NAV	\$	16,762,319	_		

Dodomation

Strategic Partnership Short Duration Funds. This investment type contains one fund that invests primarily in short duration debt instruments which generally have a one to three year maturity. The fair values of the investments have been determined using the percent ownership of the NAV of the fund. Redemptions are generally allowed monthly, provided adequate notice.

Global Equity Funds. This investment type includes nine funds that invest primarily in global developed and emerging equity public markets instruments. The fair values of the investments in this type have been determined using NAV per share of the investments or percent ownership of the NAV of the fund. Redemptions are generally allowed monthly, provided adequate notice.

Global Tactical Asset Allocation Funds. This investment type includes four funds that may be invested in liquid securities and instruments, including but not limited to equities, fixed income securities, bank loans, commodities, futures, swaps, forwards, options and currencies. The fair values of the investments in this type have been determined using NAV per share of the investments or percent ownership of the NAV of the fund. Redemptions are allowed monthly, provided adequate notice, except for one fund that may require a longer redemption timeframe and may be subject to gates and/or lock-ups.

Mixed Credit Funds. This investment type includes one fund that generally invests in high yield, bank loan and structured credit instruments. The fair values of the investments in this type have been determined using NAV per share of the investments or percent ownership of the NAV of the fund. Redemptions are generally allowed monthly, provided adequate notice.

Emerging Debt Funds. This investment type includes four funds that generally invest in debt securities issued in any currency and may hold foreign currency. The fair values of the investments in this type have been determined using NAV per share of the investments or percent ownership of the NAV of the fund. Redemptions are generally allowed monthly, provided adequate notice, and one fund charges a redemption fee.

Hedge Funds. This investment type includes 15 funds that generally invest in hedge fund strategies that seek alpha in equity or credit markets, or seek to minimize embedded market beta. There are eight of these funds, or approximately 55 percent of the value of this investment type, invested through strategic partnership investments which may consist of underlying investments in more than one hedge fund. The fair values of the investments in this type have been determined using NAV per share of the investments or percent ownership of

¹ For purposes of this table, amounts are reported in thousands in US Dollars. The Private Equity Category includes €132,604,029 and AUD \$55,400,000 that have been converted to USD.

the NAV of the fund. Redemptions are generally allowed monthly, provided adequate notice; however, it is common that funds have authority to require longer redemption timeframes and/or make the redemption subject to gates in order to mitigate any detrimental impact to the fund.

Private Equity Funds. This investment type includes 44 funds that consist of investments in limited partnerships or co-investments and five funds that are strategic partnership investments. Strategic partnerships may consist of underlying investments in more than one limited partnership or co-investment fund. The private equity investments span the venture capital, growth equity, fund of funds, secondaries, energy and buyout strategies. Private equity is considered an illiquid investment strategy as funds generally have a life span of seven to 10 years. The nature of investments in this type is that distributions are received through the liquidation of the underlying assets of the fund. The fair values of the investments in this type have been determined using percent ownership of the NAV of the fund. Due to the nature of the valuation of the underlying fund investments, it is probable that the investments of this type will be sold at an amount different from the percent ownership of the NAV of the fund.

Private Debt Funds. This investment type includes 24 funds that consist of investments in limited partnerships and five funds that are strategic partnership investments. Strategic partnerships may consist of underlying investments in more than one limited partnership or co-investment fund. The private debt investments span the direct lending, distressed, energy, mezzanine, mortgages, opportunistic and other strategies. Private Debt is considered an illiquid investment strategy as funds generally have a life span of seven to 10 years. The nature of investments in this type is that distributions are received through the liquidation of the underlying assets of the fund. The fair values of the investments in this type have been determined using percent ownership of the NAV of the fund. Due to the nature of the valuation of the underlying fund investments, it is probable that the investments of this type will be sold at an amount different from the percent ownership of the NAV of the fund.

Real Estate Funds. This investment type includes 27 funds that consist of investments in limited partnerships or co-investments and four funds that are strategic partnership investments. Strategic partnerships may consist of underlying investments in more than one limited partnership or co-investment fund. The real estate investments span the core, diversified, real estate debt, timber, value add and opportunistic strategies. Real Estate is considered an illiquid investment strategy as funds generally have a life span of seven to 10 years. The nature of investments in this type is that distributions are received through the liquidation of the underlying assets of the fund. The fair values of the investments in this type have been determined using percent ownership of the NAV of the fund. Due to the nature of the valuation of the underlying fund investments, it is probable that the investments of this type will be sold at an amount different from the percent ownership of the NAV of the fund.

Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. While the RSIC has no formal interest rate risk policy, interest rate risk is observed within the portfolio using effective duration (option adjusted duration), which is a measure of the price sensitivity of a bond or a portfolio of bonds to interest rate movements given a 100 basis point change in interest rates. Effective duration takes into account that expected cash flows will fluctuate as interest rates change and provides a measure of risk that changes proportionately with market rates. Investment guidelines may specify the degree of interest rate risk taken versus the benchmark within each fixed income portfolio. Disclosures for interest rate risk at June 30, 2017, are noted below (amounts expressed in thousands).

Investment Type	Fair Value Total	Fair Value Duration Not Available	Fair Value Duration Available	Effective Duration (option adjusted duration)
Short Term Investments				
Short Term Investment Funds (U.S. Regulated)	\$ 1,323,167	\$ -	\$ 1,323,167	0.08
Repurchase Agreements	307,428		307,428	0.07
Invested Securities Lending Collateral	123,275		123,275	0.01
Certificates of Deposit	30,515		30,515	0.39
Commercial Paper	656,904	5,000	651,904	0.11
Discount Notes	26,032		26,032	0.21
U. S. Treasury Bills	272,129		272,129	0.24
Global Short Term	3,440		3,440	0.13
Corporate Bonds	5,679		5,679	0.16
Strategic Partnership Short Duration	239,713		239,713	0.06
Options - Cash	740		740	(23.83)
Futures - Cash	76		76	0.25
Total Short Term Investments	2,989,098	5,000	2,984,098	
Equity Allocation		-		
Preferred	52,730	5,362	47,368	6.70
Convertible Preferred	1,458		1,458	9.52
Total Equity Investments	54,188	5,362	48,826	
Fixed Income Allocation				
U. S. Government				
U.S. Government Treasuries	266,452		266,452	9.50
U. S. Government Agencies	578,079	5,741	572,338	0.68
Mortgage Backed				
Government National Mortgage Association	72,534		72,534	2.82
Federal National Mortgage Association	29,044		29,044	3.14
Federal Home Loan Mortgage Corporation	6,546		6,546	4.31
Federal Home Loan Mortgage Association (FHLMC Multiclass)	14,629		14,629	5.98
Collateralized Mortgage Obligations	25,027		25,027	5.00
Municipals	13,486		13,486	7.07
Corporate				
Corporate Bonds	2,755,797	630,604	2,125,193	3.71
Mixed Credit	7,882	7,882		
Asset Backed Securities	430,715	33,022	397,693	1.42
Private Placements	944,290	188,030	756,260	2.59
Yankee Bonds	928		928	14.60
Emerging Debt	1,245,242		1,245,242	5.59
Options - Fixed Income	851	745	106	(188.77)
Futures - Fixed Income	(1,377)		(1,377)	(1.13)
Swaps - Fixed Income	2,136	(535)	2,671	(5.75)
Total Fixed Income	\$ 6,392,261	\$ 865,489	\$ 5,526,772	
Total Invested Assets	\$ 9,435,547	\$ 875,851	\$ 8,559,696	
Total Portfolio Effective Duration (option adjusted duration)				2.51

Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations to the holders of its securities. Each individual portfolio within fixed income is managed in accordance with investment guidelines that are specific as to permissible credit quality ranges, exposure levels within individual quality tiers and average credit quality. Within high yield portfolios, a quality rating of lower than C is not permissible in any of the fixed income guidelines except in those circumstances of downgrades subsequent to purchase, in which case the investment manager is responsible for communicating the downgrade to the Commission's consultant and staff. The Systems' fixed income investments at June 30, 2017, were rated by Moody's and are presented below (amounts expressed in thousands).

Credit Risk

June 30, 2017 (Amounts expressed in thousands)

Investment Type and Fair Value	AAA	AA	Α	BAA	ВА	
Short Term Investments						
Short Term Investment Funds (U. S. Regulated)	\$ 1,323,167	\$ -	\$ -	\$ -	\$ -	
Repurchase Agreements						
Invested Securities Lending Collateral						
Certificates of Deposit		11,500	9,400			
Commercial Paper		200,386		428,621		
Discount Notes	26,032					
Global Short Term						
Corporate Bonds		5,005				
Strategic Partnership Short Duration						
Options - Cash						
Futures - Cash						
Equity Investments						
Preferred				14,371	18,242	
Convertible Preferred				1,458		
Fixed Income Allocation ²						
Mortgage Backed:						
Federal National Mortgage Association	29,044					
Federal Home Loan Mortgage Association	6,546					
Federal Home Loan Mortgage Association (Multiclass)	14,629					
Collateralized Mortgage Association	25,027					
Municipals	2,401	2,370		1,123		
Corporate:						
Corporate Bonds	138,628	161,222	393,559	414,166	277,428	
Mixed Credit						
Asset Backed Securities	110,311	17,350	62,538	39,921	79,223	
Private Placements	84,638	114,595	172,506	61,202	71,879	
Yankee Bonds				928		
Emerging Debt						
Options - Fixed Income						
Futures - Fixed Income						
Swaps - Fixed Income						
Totals	\$ 1,760,423	\$ 512,428	\$ 638,003	\$ 961,790	\$ 446,772	

Chart continued on Page 61

¹The column labeled Not Rated by S&P or Moody's represents securities that were either not rated or had a withdrawn rating.
²U.S. Treasury Bills, Notes and Bonds, Agencies and Government National Mortgage Association securities with a fair value of \$1.19 billion are not included because they are not subject to credit risk.

Credit Risk

				Not Rated		
В	CAA	CA	Int'l and EMD Commingled Funds or held in Strategic Partnerships	Rated by S&P not by Moody's	Not rated by S&P or Moody's ¹	TOTAL
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,323,167
					307,428	307,428
					123,275	123,275
					9,615	30,515
					27,897	656,904
						26,032
					3,440	3,440
					674	5,679
			239,713			239,713
					740	740
					76	76
				14,003	6,114	52,730 1,458
						29,044
						6,546
						14,629
						25,027
				7,592		13,486
351,365	66,957	2,755	7,882	350,163	599,554	2,755,797 7,882
7,698	4,748		·	67,329	41,597	430,715
90,357	60,588			181,960	106,565	944,290
•	•			•	,	928
			1,245,242			1,245,242
			. ,		851	851
					(1,377)	(1,377)
					2,136	2,136
\$ 449,420	\$ 132,293	\$ 2,755	\$ 1,492,837	\$ 621,047	\$ 1,228,585	\$ 8,246,353

Concentration of Credit Risk – Investments

Concentration of credit risk is the risk of loss attributed to the magnitude of investment in a single issuer. The Systems' policy for reducing this risk is to comply with the Statement of Investment Objectives and Policies as amended and adopted by the Commission which states that "except that no limitations on issues and issuers shall apply to obligations of the U.S. Government and Federal Agencies, the domestic fixed income portfolio shall contain no more than 6 percent exposure to any single issuer." As of June 30, 2017, there is no single issuer exposure within the portfolio that comprises

5 percent or more of the overall portfolio. Therefore, there is no concentration of credit risk.

Foreign Currency Risk

Foreign currency risk is the risk that changes in exchange rates will adversely impact the fair value of an investment. The Systems participates in foreign markets to diversify assets, reduce risk and enhance returns. Currency forwards are used to manage currency fluctuations and are permitted by investment policy. Policy forbids speculating in forwards and other derivatives.

The table below presents the Systems' exposure to foreign currency risk in U.S. dollars at June 30, 2017, (amounts expressed in thousands):

	Cas	h & Cash	F	orward	Fu	tures	Private	Pr	eferred	Fixed				
Currency	Equ	uivalents	Co	ontracts	Con	tracts	Equity	Se	curities	Inc	ome	Equity	1	Γotal
Australian Dollar	\$	902	\$	75,569	\$	311	\$ 32,153	\$	-	\$	-	\$ 100,400	\$	209,335
Brazil Real		144		869							8,675			9,688
Canadian Dollar		1,922		95,058	((1,733)					(210)	169,766		264,803
Danish Krone		332		(78,915)						7	6,816	24,238		22,471
Euro Currency		5,641		215,923	(1	.3,313)	176,507		6,114	24	9,744	450,656	1,	091,272
Hong Kong Dollar		2,274		40,489		(174)						69,182		111,771
Israeli Shekel		183										4,348		4,531
Japanese Yen		5,949		264,204		1,048					(177)	345,645		616,669
Mexican New Peso		3,768		(3,517)								4,506		4,757
New Taiwan Dollar				(32,405)										(32,405)
New Zealand Dollar		299										4,580		4,879
Norwegian Krone		79		(96)								14,289		14,272
Pound Sterling		(19)		193,942	(4,077)					9,880	261,706		461,432
Russian Ruble (New)		(768)		(202)										(970)
Singapore Dollar		476		(14,825)								16,505		2,156
South African Rand				124										124
South Korean Won				(23,110)										(23,110)
Swedish Krona		2,014		23,122		(678)					5,029	52,149		81,636
Swiss Franc		354		4,665								 101,988		107,007
Totals	\$	23,550	\$	760,895	\$(1	.8,616)	\$208,660	\$	6,114	\$34	9,757	\$ 1,619,958	\$2,	950,318

Derivatives

Derivatives are financial instruments for which the value is derived from underlying assets or data. All of the Systems' derivatives are considered investments. Excluding futures, derivatives generally take the form of contracts in which two parties agree to make payments at a later date based on the value of specific assets or indices. Through certain collective trust funds, the Systems may invest in various derivative financial

instruments such as futures and options thereon; forward foreign currency contracts, options, interest rate, currency, equity, index, credit default, total return swaps, interest-only strips, and CMOs to enhance the performance and reduce volatility. To comply with the requirements of multiple exchanges, cash and securities in the amount of \$107.1 and \$306.9 million, respectively, were held in trust by the clearing brokers on June 30, 2017. The Systems' derivatives, consisting of futures,

options, forward contracts and swaps are presented in the tables on Pages 63-68. Investments in limited partnerships and commingled funds may include derivatives that are not shown in the derivative totals.

Derivatives directly managed by the Investment Commission are used primarily to facilitate changes to the asset allocation of the total plan and for their low cost of implementation. The Commission uses derivatives for several reasons:

 Asset Allocation: In many cases, synthetic exposures (using derivatives) are placeholders until managers are hired and funded. In time, the Commission may

- substitute traditional managers for much of the synthetic exposure currently in the portfolio. Efficient Market Theory dictates that in some asset classes, synthetics are the best way to achieve exposure.
- Risk Management: Derivatives allow investors the ability to swiftly and efficiently increase or decrease exposures in order to manage portfolio risk.
- Cost: A synthetic (derivative) solution is often the least expensive way to gain exposure to an asset class or to manage portfolio risk. Derivatives are more beneficial in each of the three major measures of cost: commission costs, market impact of trading and opportunity costs.

Futures

Futures are contractual obligations that require the buyer (seller) to buy (sell) assets at a predetermined date at a predetermined price. These contracts are standardized and trade on an organized exchange with gains and losses settled daily thereby significantly reducing credit and default risk. Gains and losses are included in the net appreciation/ (depreciation) in the fair value of investments total of the Statement of Changes in Fiduciary Net Position.

The tables below present classification information on the Systems' derivatives at June 30, 2017, (amounts expressed in thousands):

	Changes in Fair Valu	e		
	Classification	Gain/(Loss)		
Futures Contracts	Net appreciation/(depreciation)	\$	(63,729)	
Forward Contracts	Net appreciation/(depreciation)		18,304	
Swaps	Net appreciation/(depreciation)		1,631	
Options	Net appreciation/(depreciation)		(27,580)	

	Fair Value								
	Forward								
	Contracts	Futures	Options	Swaps					
Cash and Cash Equivalents	\$ (7,023)	\$ 76	\$ 740	\$ -					
Fixed Income		(1,377)	851	2,136					
Equity		(24,645)	753,471	(1,027)					
Alternatives				(8,325)					
Totals	\$ (7,023)	\$(25,946)	\$755,062	\$ (7,216)					

At June 30, 2017, the Systems had the following exposure via futures contracts (dollar amounts expressed in thousands):

				r	Notional
Futures Contracts	Expiration	Long/Short	Quantity		Value ¹
90DAY EURODOLLAR FUTURE (CME)	EXP MAR 18	Short	(158)	\$	(38,884)
90DAY EURODOLLAR FUTURE (CME)	EXP JUN 18	Short	(342)		(84,102)
90DAY EURODOLLAR FUTURE (CME)	EXP DEC 17	Short	(110)		(27,094)
90DAY EURODOLLAR FUTURE (CME)	EXP DEC 18	Short	(148)		(36,334)
Total Cash & Cash Equivalents					(186,414)
SPI 200 INDEX FUTURE (SFE)	EXP SEP 17	Long	671		72,687
S&P/TSE 60 INDEX FUTURE (MSE)	EXP SEP 17	Long	691		94,624
DAX INDEX FUTURE (EUX)	EXP SEP 17	Long	295		103,630
EURO STOXX 50 FUTURE (EUX)	EXP SEP 17	Long	2,784		108,944
IBEX 35 INDEX FUTURE (MFM)	EXP JUL 17	Long	329		39,047
CAC 40 EURO INDEX FUTURE (EOP)	EXP JUL 17	Long	2,025		118,171
S & P/MIB INDEX FUTURE (MIL)	EXP SEP 17	Long	244		28,524
AMSTERDAM INDEX FUTURE(E0E)	EXP JUL 17	Long	347		40,092
HANG SENG INDEX FUTURE (HKG)	EXP JUL 17	Long	257		42,115
TOPIX INDEX FUTURE (OSE)	EXP SEP 17	Long	1,708		244,966
FTSE 100 INDEX FUTURE (ICF)	EXP SEP 17	Long	1,893		178,087
OMX INDEX FUTURE (SSE)	EXP JUL 17	Long	1,548		29,416
S & P 500 EMINI IND FUT (CME)	EXP SEP 17	Long	14,603		1,767,620
Total Equity					2,867,923
US TREAS BD FUTURE (CBT)	EXP SEP 17	Long	46		7,070
US TREAS BD FUTURE (CBT)	EXP SEP 17	Long	75		11,527
US TREAS BD FUTURE (CBT)	EXP SEP 17	Long	398		61,168
US ULTRA BOND (CBT)	EXP SEP 17	Long	435		72,156
US ULTRA BOND (CBT)	EXP SEP 17	Long	16		2,654
US 10YR ULTRA FUTURE (CBT)	EXP SEP 17	Long	5		674
US 10YR ULTRA FUTURE (CBT)	EXP SEP 17	Long	114		15,369
US 10 YR TREAS NTS FUTURE(CBT)	EXP SEP 17	Long	1,619		203,235
US 10 YR TREAS NTS FUTURE(CBT)	EXP SEP 17	Long	1,454		182,523
US 10 YR TREAS NTS FUTURE(CBT)	EXP SEP 17	Short	(56)		(7,030)
US 5YR TREAS NTS FUTURE (CBT)	EXP SEP 17	Long	2,619		308,612
US 5YR TREAS NTS FUTURE (CBT)	EXP SEP 17	Long	1,625		191,483
US 5YR TREAS NTS FUTURE (CBT)	EXP SEP 17	Short	(172)		(20,268)
US 2YR TREAS NTS FUT (CBT)	EXP SEP 17	Long	1,116		241,178
US 2YR TREAS NTS FUT (CBT)	EXP SEP 17	Long	141		30,471
EURO-OAT FUTURE (EUX)	EXP SEP 17	Short	(354)		(59,949)
CANADA 10YR BOND FUTURE (MSE)	EXP SEP 17	Long	28		3,030
EURO-BUND FUTURE (EUX)	EXP SEP 17	Long	52		9,600
JPN 10Y BOND FUTURE (OSE)	EXP SEP 17	Short	(18)		(24,048)
LONG GILT FUTURE (ICF)	EXP SEP 17	Short	(116)		(18,921)
Total Fixed Income					1,210,534
Total				۲	2 002 042
Total				\$	3,892,043

¹ Notional value is the nominal or face amount that is used to calculate payments made on derivative instruments (futures, forwards, swaps and options). This amount generally does not change hands and is thus referred to as notional. The notional amount represents the economic equivalent to an investment in the physical securities represented by the derivative contract.

Forwards

Forwards are contractual obligations that require the delivery of assets at a fixed price on a predetermined date. These contracts are "over-thecounter" (OTC) instruments, meaning they are not traded on an organized exchange. Currency forwards gains and losses are included in the net appreciation/(depreciation) in the fair value of investments total of the Statement of Changes in Fiduciary Net Position.

At June 30, 2017, the Systems had the following forward exposures, listed by counterparty (amounts expressed in thousands):

			Counterparty
Broker	Notional Value	Fair Value	Exposure
Bank of America	\$ 78,818	\$ (2,377)	3.63%
Bank of Montreal	178,668	520	8.23%
BNP Paribas	503,108	(2,744)	23.16%
BNY Mellon	251,107	(2,751)	11.56%
Brown Brothers Harriman	12,202	(223)	0.56%
Citibank	23,103	(166)	1.07%
Credit Suisse International London	25,083	396	1.15%
Deutsche Bank London	4,187	(1)	0.19%
Goldman Sachs	83,851	(1,562)	3.86%
HSBC Bank PLC London	3,248	5	0.15%
JP Morgan Chase Bank	87,105	68	4.01%
Merrill Lynch International London	819	(3)	0.04%
Morgan Stanley	2,575	(104)	0.12%
Royal Bank of Canada	178,609	579	8.22%
Standard Chartered Bank London	198,519	350	9.14%
State Street Boston Capital Market	179,053	401	8.24%
Toronto Dominion	5,849	(3)	0.27%
UBS AG/Stamford	356,353	592	16.40%
Totals	\$ 2,172,257	\$ (7,023)	100%

Swaps

The Systems has entered into various swap agreements to manage plan exposure. Swaps are OTC agreements to exchange a series of cash flows according to specified terms. The underlying asset can be an interest rate, an exchange rate, a commodity price or any other index.

Total return swaps are primarily used to efficiently achieve a target asset allocation. Exposures to an asset class are typically gained by paying a reference rate such as LIBOR, plus or minus a spread, in exchange for the risk and returns of a desired market index. Similarly, exposures can be reduced by receiving a reference rate in exchange for the economic risks and returns of an index.

Counterparty risk, or default risk, is the risk that a party will not honor its contractual obligations. The Systems seeks to actively manage its counterparty risk by thorough analysis and evaluation of all potential counterparties by investment staff and the independent overlay manager. Risk is further minimized through diversification among counterparties with high credit ratings and collateralizing unrealized gains and losses. The Systems currently does not participate in a master netting agreement. Unrealized gains and losses are not netted across instrument types and are included in the net appreciation/(depreciation) in the fair value of investments total of the Statement of Changes in Fiduciary Net Position. The table below reflects the counterparty credit ratings at June 30, 2017, for currency forwards, swap agreements, and options (amounts in thousands):

Quality rating		rwards	Swaps	Options ¹		Total	
Aa2	\$	2	\$ -	\$	-	\$	2
Aa3		468	(6,836)				(6,368)
A1		(8,104)	(2,991)		764		(10,331)
A2		350	(397)				(47)
A3		(104)			82		(22)
Baa1		(3)			745		742
Baa2		(1)					(1)
Not rated by Moody's; rated A by Fitch		369					369
Total subject to credit risk	\$	(7,023)	\$ (10,224)	\$	1,591	\$	(15,656)
Centrally cleared:							
Chicago Mercantile Exchange Inc.	\$	-	\$ 1,768	\$	-	\$	1,768
Chicago Board Options Exchange				(8,538)		(8,538)
Intercontinental Exchange			(1,223)				(1,223)
LCH Ltd			 2,463				2,463
Total not subject to credit risk	\$	-	\$ 3,008	\$ (8,538)	\$	(5,530)
Totals	\$	(7,023)	\$ (7,216)	\$ (6,947)	\$	(21,186)

¹ Options held in commingled accounts are not included in this table.

At June 30, 2017, the Systems held swaps as shown in the tables below (amounts expressed in thousands):

				Maturity	Current		Gain/Loss
Counterparty	Total Return Swaps	SCRS Pays	SCRS Receives	Date	Notional	Fair Value ¹	Since Trade
Bank of America	Russell 2000 Proxy	Russell 2000 Index Total Return	3M T Bill - 29 bps	3/29/2018	\$ (232,592)	\$ 25	\$ (5,592)
Barclays	Barclays US Agg Proxy	1M US Dollar + 10 bps	LBUSTRUU Index	2/28/2018	357,207	(359)	7,207
Barclays	Barclays US Agg Proxy	1M US Dollar - 8 bps	LBUSTRUU Index	9/29/2017	495,155	(497)	(4,845)
Barclays	Barclays US Credit Proxy	1M US Dollar - 15 bps	LUCRTRUU Index	9/29/2017	200,399	397	399
BNP	Russell 2000 Proxy	Russell 2000 Index Total Return	3M T Bill - 27 bps	4/30/2018	(65,000)	(580)	(0)
Goldman Sachs	BCOM F3 Preroll w/Gemini Micro	45 bps	ABGS1006 Index	8/30/2017	110,764	(868)	10,764
Goldman Sachs	BCOM F3 Preroll w/Gemini Micro	45 bps	ABGS1006 Index	9/5/2017	82,537	(4,079)	7,536
JP Morgan	JPM Enhanced Beta + SSP Proxy	3MT-Bill + 46.9 bps	JMABEBSP Index	8/31/2017	217,766	(557)	3,205
JP Morgan	JPM Palmetto Equinox Proxy TR	46.9 bps	JMABEQXT Index	9/29/2017	101,132	(938)	1,132
JP Morgan	Bloomberg Select Petroleum	9.97 bps	BCOMRPE Index	5/31/2018	49,814	(1,830)	(186)
JP Morgan	JPM Palmetto Equinox Proxy TR	3MT-Bill + 46.9 bps	JMABEQXT Index	5/31/2018	64,478	(340)	648
Societe Generale	SocGen Congestion Commodities	19 bps	SGCOP26E Index	3/29/2018	221,530	(397)	(6,347)
				_	\$ 1,603,190	\$ (10,023)	\$ 13,921

				Maturity	Ci	urrent		
Counterparty	Fixed Income Swaps	SCRS Pays	SCRS Receives	Date	No	otional	Fair	Value ¹
Credit Suisse AG	Credit Default Swaps	Variable Rate	Fixed Rate	9/17/2058	\$	12,500	\$	(171)
JPMorgan Chase Bank	Credit Default Swaps	Variable Rate	Fixed Rate	9/17/2058		2,200		(30)
					\$	14,700	\$	(201)
Chicago Mercantile Exchange	Credit Default and Interest Rate Swaps	Fixed / Variable Rate	Fixed / Variable Rate	various	\$	547,287	\$	1,768
Intercontinental Exchange	Credit Default Swaps	Variable Rate	Fixed Rate	various		136,186		2,463
LCH Ltd	Interest Rate Swaps	Fixed	Variable Rate	various		128,221		(1,223)
					\$	811,694	\$	3,008

¹Fair Value is the amount reasonably expected to be received if the underlying positions were liquidated on the following business day.

Options

Options are exchange traded agreements between two parties for a future transaction on an underlying asset at a reference or strike price. The buyer of an option has the right, but not the obligation, to transact. The seller of an option has the obligation to transact if forced by the buyer. The price of an option is derived by taking the difference in the underlying asset and the strike price plus a premium for the remaining time until expiration. At June 30, 2017, the Systems had the following option positions (amounts expressed in thousands):

Option Contracts	Underlying Security	Expiration	Quantity	Fair Value ¹
Put July 17 001.263 ED 07/03/17	USD/GBP SPOT OPTION 2017	July 2017	(3,100,000)	\$ (19)
Put July 17 001.264 ED 07/03/17	USD/GBP SPOT OPTION 2017	July 2017	(800,000)	(5)
Call Mar 18 098.75 ED 03/19/18	90DAY EURODOLLAR FUTURE MAR 18	March 2018	(444)	(17)
Put Dec 19 097.625 ED 12/16/19	90DAY EURODOLLAR FUT DEC 19	December 2019	1,229	745
Put Mar 18 098.250 ED 03/19/18	90DAY EURODOLLAR FUTURE MAR 18	March 2018	444	36
Total Cash & Cash Equivalents				740
Put July 17 101.87109375 ED70617	COMMIT TO PUR FNMA SF MTG	July 2017	(20,000,000)	(1)
Put Aug 18 002.800 ED 082018	IRS P USD 5Y 22BPS R 2.8%	August 2018	(21,600,000)	(99)
Put Aug 18 002.905 ED 082018	IRS P USD 30Y 98BPS R 2.905%	August 2018	4,900,000	181
Put Aug 18 002.800 ED 08/20/18	IRS P USD 5Y 22BPS R 2.8%	August 2018	(6,900,000)	(31)
Put Aug 18 002.940 ED 08/20/18	IRS P USD 30Y 97BPS R 2.94%	August 2018	1,600,000	55
Put Sept 17 084.000 ED 09/15/17	ISHARES IBOXX USD HIGH YIELD	September 2017	7,494	307
Call Sept 17 127.000 ED 091517	ISHARES 20+ YEAR TREASURY BO	September 2017	6,358	846
Call Sept 17 130.000 ED 091517	ISHARES 20+ YEAR TREASURY BO	September 2017	(6,358)	(407)
Total Fixed Income				851
Put July 17 2435.000 ED 070717	S&P 500 INDEX SPX	July 2017	(370)	(618)
Put July 17 2420.000 ED 072117	S&P 500 INDEX (SPX)	July 2017	(1,129)	(2,077)
Put July 17 2430.000 ED 071417	S&P 500 INDEX SPX	July 2017	(371)	(686)
Put July 17 2435.000 ED 072817	S&P 500 INDEX SPX	July 2017	(371)	(1,013)
Call Aug 17 2420.000 ED 083117	S&P 500 INDEX SPX	August 2017	(1,120)	(4,144)
Total Equity			·	(8,538)
Total			•	\$ (6,947)

¹Options held in commingled accounts are not included in this table.

Alternative Investments

The Alternative Investment category includes the following asset classes: private equity, hedge funds, private debt, real estate and commodities.

Private equity, private debt and real estate investments are typically structured as limited partnerships. In this structure, the Systems is one of several limited partners, while the investment manager serves as the general partner. Investing in such limited partnerships legally obligates the Systems to invest the committed amount until the investment is fully funded or the contractual investment period has expired. Hedge fund and commodities investments are typically on subscription basis with a single, initial investment with no further commitment.

The Systems established several strategic partnerships to gain access to deal flow, to receive favorable economics and to efficiently take advantage of market opportunities. Investments within the strategic partnership accounts may include allocations to any asset class including those considered alternative investments. Assets of Strategic Partnerships are reported within their respective asset class totals.

The Commission's intent is to access superior risk-adjusted returns through investing in alternative investment asset classes. Due to their low correlation to traditional asset classes, alternative investments diversify the portfolio and help reduce the risk associated with volatility of returns.

Commitments

The Commission, on behalf of the Systems, has entered into contractual agreements with numerous alternative investment managers and is committed for future funding of private equity, private debt and real estate investments. At June 30, 2017, the Systems' commitments, including commitments within Strategic Partnerships, are shown in the following table (amounts expressed in thousands):

			F	Remaining		
	Total			Amount	Unfunded	
	С	ommitment	Fur	nded to Date	Co	mmitment
Limited Partnerships USD						
Private Equity	\$	4,082,263	\$	3,354,186	\$	728,077
Private Debt		4,918,202		3,262,094		1,656,108
Real Estate		3,224,963		2,412,972		811,991
Real Assets		30,000		29,377		623
Totals	\$	12,255,428	\$	9,058,629	\$	3,196,799
Limited Partnerships Euros						
Private Equity	_€	345,750	€	213,146	€	132,604
Totals	€	345,750	€	213,146	€	132,604
Limited Partnerships AUD						
Private Equity	\$	100,000	\$	44,600	\$	55,400
Totals	\$	100,000	\$	44,600	\$	55,400

Securities Lending

The Systems' investment portfolio currently participates in a securities lending program, managed by BNYM ("Securities Lending Program"), whereby securities are loaned for the purpose of generating additional income. BNYM is responsible for making loans of securities on a collateralized basis from the Systems' investment portfolio to various third party broker-dealers and financial institutions. The fair value of the required cash collateral must initially meet or exceed 102.0 percent of the fair value of the securities loaned for U. S. securities and 105.0 percent for Non-U. S. securities, providing a margin against a decline in the fair value of collateral. If the collateral value falls below 100.0 percent, the borrower must post additional collateral. In conjunction with generating revenue, the collateral pool seeks to maintain a net asset value (NAV) of \$1.00, which is determined by dividing the fair value of the assets by the cost of those assets.

There are no restrictions on the amount of securities that may be loaned and conservative investment guidelines continue to be maintained within the Securities Lending Program. The reinvestment of the cash collateral is restricted to short duration, very low risk securities and is monitored by RSIC on an ongoing basis. The types of securities available for loan during the year ended June 30, 2017 included U.S. Government securities, U.S. Government agencies, Corporate bonds, Non-U. S. Fixed Income and Non-U. S. equities. The contractual agreement in place at fiscal year-end between the State Treasurer as custodian and BNYM provides indemnification in the event the borrower fails to return the securities lent or fails to pay the Systems income distribution by the securities' issuers while the securities are on loan. Indemnification is also provided if the investment of

cash collateral results in investment loss. Cash and U.S. Government securities are received as collateral for these loans. Collateral securities cannot be pledged or sold without a borrower default. Cash collateral received is invested, and accordingly, investments made with cash collateral are reported as an asset. A corresponding liability is recorded as the Systems must return the cash collateral to the borrower upon the expiration of the loan.

At June 30, 2017, the fair value of securities on loan was \$164.65 million. The fair value of the invested cash collateral was \$123.27 million, securities lending obligations were \$170.46 million with the difference reported within "Other Liabilities" on the Statement of Fiduciary Net Position. The gross securities lending revenue for the fiscal year was \$773 thousand, a decrease from \$946 million in the prior year. Since November 2008, gains and losses from the Securities Lending Program have been excluded from the Total Plan performance calculations.

With regard to counterparty credit risk, the Systems' cash collateral invested is held by the counterparty and is uninsured. All securities loaned can be terminated on demand by either the Systems or the borrower. At year end the average number of days the loans were outstanding was one day. The average weighted maturity of investments made with cash collateral was three days. At June 30, 2017, there had been no losses resulting from borrower defaults and the Systems had no credit risk exposure to borrowers because the amounts the Systems owed the borrowers exceeded the amounts the borrowers owed the Systems.

The following table presents the fair value (amounts expressed in thousands) of the underlying securities and the total collateral received for securities on loan at June 30, 2017:

						06/30/17	06/30/16	
	SCRS	PORS	GARS	JSRS	SCNG	TOTALS	TOTALS	
Securities lent for cash collateral								
Corporate bonds	\$ 13,085	\$ 2,166	\$ 15	\$ 76	\$ 12	\$ 15,354	\$ 25,808	
Global Public Equity	121,287	20,076	141	702	111	142,317	75,368	
Global Fixed Income	5,950	985	7	34	6	6,982		
Total	\$ 140,322	\$23,227	\$163	\$ 812	\$ 129	\$164,653	\$ 101,176	
Securities lent for non-cash collatera	al							
Corporate Bonds	\$ 6,347	\$ 1,050	\$ 7	\$ 37	\$ 6	\$ 7,447	\$ -	
Global Public Equity	79,848	13,217	93	462	73	93,693	45,003	
Total	\$ 86,195	\$14,267	\$100	\$ 499	\$ 79	\$101,140	\$ 45,003	
Cash collateral invested as follows								
Repurchase agreements	\$ 105,059	\$17,390	\$122	\$ 608	\$ 96	\$123,275	\$ 55,737	
Total	\$ 105,059	\$17,390	\$122	\$ 608	\$ 96	\$123,275	\$ 55,737	
Securities received as collateral								
U.S. Government securities	\$ 88,525	\$14,653	\$103	\$ 513	\$ 81	\$103,875	\$ 45,287	
Total	\$ 88,525	\$14,653	\$103	\$ 513	\$ 81	\$103,875	\$ 45,287	

IV. Transfers between Systems

Transfers between systems are statutorily authorized internal transfers of contributions and service credit from one retirement system to another retirement system that result from members voluntarily initiating the transfer when certain conditions are met.

Transfers made within the Systems administered by PEBA during the fiscal year ended June 30, 2017, were as follows (amounts expressed in thousands):

Transfers										
from:	Transfers to:									
	SCRS		PORS	GARS	JSRS	SCNG		Total		
SCRS	\$	-	\$1,278	\$ 19	\$253	\$	-	\$1,550		
PORS								-		
GARS								-		
JSRS								-		
SCNG								-		
Total	\$	-	\$1,278	\$ 19	\$253	\$	-	\$1,550		

The following schedule reflects amounts due to or due from other systems as of June 30, 2017, (amounts expressed in thousands):

Due from:					ı	Due	to:					
	SC	CRS PORS		GA	RS	JSRS		SCNG		Total		
SCRS	\$	-	\$	397	\$	-	\$	-	\$	-	\$	397
PORS												-
GARS												-
JSRS												-
SCNG												-
Total	\$	-	\$	397	\$	-	\$	-	\$	-	\$	397

V. Related Party Transactions

The pension plans provide pension and other benefits to employees of all state agencies. Revenues attributed to these agencies are recorded in the financial statements as employee and employer contributions and constitute approximately 33 percent of combined contribution revenues. In addition, the Systems received custodial and related services from the Office of the South Carolina State Treasurer through FY 2017. The Retirement System Funding and Administration Act of 2017 designated the PEBA Board rather than the State Treasurer as custodian effective July 1, 2017.

At June 30, 2017, liabilities of approximately \$63.9 million were due to the Employee Insurance

Program. Employee and employer contributions receivable of approximately \$50 million were due from other state departments and agencies.

The SCNG Supplemental Retirement Plan received state-appropriated contributions in the amount of \$4.6 million during the fiscal year.

The Retirement System Investment Commission is a separate state agency; however, the administrative costs of the Commission are funded by transfers from the Systems' trust funds. Transfers in the amount of approximately \$9 million were made to the Commission during the fiscal year.

VI. Deferred Retirement Option Plans

The TERI program, implemented effective January 1, 2001, is a deferred retirement option plan available to active SCRS members eligible for service retirement on or after January 1, 2001. When a member enters TERI, the member's status changes from an active member to a retiree even though the employee continues to work at his regular job and earn his regular salary for a period of up to five years. TERI participants continue to contribute at the same rate as active members. No additional service credit is earned during this period and participants are ineligible for disability retirement benefits. During the TERI participation period, the retiree's monthly benefits are accumulated in the trust account. Upon termination of employment at the end of the TERI period, funds are distributed and the retiree may elect a payment method to either roll over their funds into a qualified retirement plan or to receive a single-sum distribution (or a combination thereof). No interest is paid on the participant funds accumulated in the TERI account.

Legislation enacted in 2012 closes the TERI program to all members effective June 30, 2018.

As of June 30, 2017, a total of 7,210 members were actively participating in the TERI program and the benefits held in trust totaled \$643,050,425.

A deferred retirement option plan also exists under the Retirement System for Judges and Solicitors (JSRS). A member who has not yet reached the age of 60 years, but who is eligible to retire and receive the maximum monthly benefit, may retire and continue to serve as a judge, a solicitor or a circuit public defender. The member's normal monthly retirement benefit is deferred and placed in the system's trust fund on behalf of the member. Upon reaching the age of 60 years, the balance of the member's deferred retirement benefit is distributed to the member. As of June 30, 2017, the benefits held in trust totaled \$208,045.

VII. Capital Assets

Capital assets at June 30, 2017, consist of the following amounts (expressed in thousands).

	Ba	ginning lances 1/2016	Ad	ditions	Del	etions	Ba	nding plances 80/2017
Asset Class (at Cost)								
Land	\$	582	\$	-	\$	-	\$	582
Building		4,749						4,749
Equipment		2,005		65				2,070
Total Capital Assets		7,336		65				7,401
Accumulated Depreciation								
Building		2,823		119				2,942
Equipment		1,772		150				1,922
Total Accumulated Depreciation		4,595		269				4,864
Capital Assets, Net	\$	2,741	\$	(204)	\$	-	\$	2,537

VIII. Compensated Absences

As state employees, most full-time permanent employees of SC PEBA's Retirement Division earn 15 days of annual leave and 15 days of sick leave per year during their first ten years of service. After ten years of service is complete, most employees earn an additional 1.25 days of annual leave for each year of service over ten until they reach a maximum of 30 days per year. Sick leave earnings remain at 15 days per year regardless of years of service. Employees may carry forward up to 45 days of annual leave and 180 days of sick leave from one calendar year to the next. Upon termination of employment, employees are eligible to receive payment for up to 45 days of accumulated unused annual leave at the pay rate then in effect. Employees are not eligible to receive payment for accumulated unused sick leave upon termination. As of June 30, 2017, the total amount accrued for unused annual leave for PEBA's Retirement Division

employees was \$919,033, and the associated liability is included in Other Liabilities on the Statement of Fiduciary Net Position.

IX. Participation in Pension Plans

Generally, all employees of PEBA are required to participate in the South Carolina Retirement System or the Optional Retirement Program as a condition of employment. Additional information related to membership, benefits and contribution requirements is contained within these notes to the financial statements.

Employer contributions for Retirement Division staff are paid by PEBA and are allocated to the pension trust funds along with all other administrative expenses. Administrative expenses of the Systems are funded by investment earnings. For the year ended June 30, 2017, PEBA's actual contributions to the South Carolina Retirement System (SCRS) for Retirement Division staff were \$972,651.

X. Net Pension Liability

The total pension liability of each defined benefit pension plan summarized below was determined based on the most recent actuarial valuation, which was conducted using membership data as of July 1, 2016, projected forward to the end of the fiscal year, and financial information as of June 30, 2017, using generally accepted actuarial procedures. Information included in the following schedule is based on the certification provided by our consulting actuary, Gabriel Roeder Smith & Company. A Schedule of Employers' Net Pension Liability is intended to provide information about whether the plan fiduciary net positions are increasing or decreasing over time relative to the total pension liability. This schedule as well as a Schedule of Changes in the Employers' Net Pension Liability is presented in the Required Supplementary Information (RSI) section.

The net pension liability (i.e. the Systems' total pension liability determined in accordance with GASB Statement No. 67 less the fiduciary net position) as of June 30, 2017, is as follows (dollar amounts expressed in thousands):

	Total Pension Liability	•	Employers' Net Pension Liability	Plan Fiduciary Net Position as a % of the Total Pension Liability
SCRS	\$ 48,244,437	\$ 25,732,829	\$ 22,511,608	53.3%
PORS	7,013,684	4,274,123	2,739,561	60.9%
GARS	74,728	31,789	42,939	42.5%
JSRS	299,039	152,151	146,888	50.9%
SCNG	67,222	26,036	41,186	38.7%

Actuarial valuations of the ongoing plan involve estimates of the reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. South Carolina state statute requires that an actuarial experience study be completed at least once in each five-year period. An experience report on the Systems was most recently issued as of July 1, 2015.

The following table provides a summary of the actuarial assumptions and methods used to calculate the Total Pension Liability as of June 30, 2017. Please note, the Total Pension Liability as of June 30, 2017, is based on the July 1, 2016, actuarial valuation, with the exception of the use of a 7.25 percent assumed rate of return. A 7.25 percent assumed rate of return was used to determine the Total Pension Liability as of June 30, 2017, as a result of the enactment of the Retirement System Funding and Administration Act of 2017, which included a provision to reduce the assumed rate of return from 7.50 percent to 7.25 percent effective July 1, 2017.

	SCRS	PORS	GARS	JSRS	SCNG
Actuarial cost method	Entry age	Entry age	Entry age	Entry age	Entry age
	normal	normal	normal	normal	normal
Actuarial assumptions:					
Investment rate of return ¹	7.25%	7.25%	7.25%	7.25%	7.25%
Projected salary increases	3.0% to 12.5%	3.5% to 9.5%	None	$2.75\%^{1}$	None
	(varies by service) ¹	(varies by service) ¹			
Benefit adjustments	lesser of 1% or	lesser of 1% or	None	2.75%	None
	\$500 annually	\$500 annually			

¹Includes inflation at 2.25%

The post-retiree mortality assumption is dependent upon the member's job category and gender. The base mortality assumption, the 2016 Public Retirees of South Carolina Mortality table (2016 PRSC), was developed using the System's mortality experience. These base rates are adjusted for future improvement in mortality using published Scale AA projected from the year 2016.

Former Job Class	Males	Females
Educators and Judges	2016 PRSC Males multiplied by 92%	2016 PRSC Females multiplied by 98%
General Employees and		
Members of the General	2016 PRSC Males multiplied by 100%	2016 PRSC Females multiplied by 111%
Assembly		
Public Safety, Firefighters		
and members of the South	2016 PRSC Males multiplied by 125%	2016 PRSC Females multiplied by 111%
Carolina National Guard		

The long-term expected rate of return on pension plan investments is based upon 30 year capital market assumptions. The long-term expected rate of returns represent assumptions developed using an arithmetic building block approach primarily based on consensus expectations and market based inputs. Expected returns are net of investment fees. The expected returns, along with the expected inflation rate, form the basis for the target asset allocation adopted at the beginning of the 2017 fiscal year. The long-term expected rate of return is produced by weighting the expected future real rates of return by the target allocation percentage and adding expected inflation and is summarized in the table on the following page. For actuarial purposes, the 7.25 percent assumed annual investment rate of return used in the calculation of the total pension liability includes a 5.00 percent real rate of return and a 2.25 percent inflation component.

			Long Term
			Expected
			Portfolio
	Policy	Expected Arithmetic	Real Rate
Allocation / Exposure	Target	Real rate of Return	of Return
Global Equity	45.0%		
Global Public Equity ^{1,2}	31.0%	6.72%	2.08%
Private Equity ^{2,3}	9.0%	9.60%	0.86%
Equity Options Strategies	5.0%	5.91%	0.30%
Real Assets	8.0%		
Real Estate (Private) ^{2,3}	5.0%	4.32%	0.22%
Real Estate (REITs) ²	2.0%	6.33%	0.13%
Infrastructure	1.0%	6.26%	0.06%
Opportunistic	17.0%		
GTAA/Risk Parity ¹	10.0%	4.16%	0.42%
Hedge Funds (non-PA) ¹	4.0%	3.82%	0.15%
Other Opportunistic Strategies ¹	3.0%	4.16%	0.12%
Diversified Credit	18.0%		
Mixed Credit ^{1,2}	6.0%	3.92%	0.23%
Emerging Markets Debt ¹	5.0%	5.01%	0.25%
Private Debt ^{1,2,3}	7.0%	4.37%	0.31%
Conservative Fixed Income	12.0%		
Core Fixed Income	10.0%	1.60%	0.16%
Cash and Short Duration (Net)	2.0%	0.92%	0.02%
Total Expected Return	100.0%		5.31%
Inflation for Actuarial Purposes			2.25%
			7.56%

¹Portable Alpha Strategies will be capped at 12% of total assets; and Hedge funds (including all hedge funds used in portable alpha implementation) would be capped at 20% of total assets.

The discount rate used to measure the total pension liability was 7.25 percent. The projection of cash flows used to determine the discount rate assumed that contributions from participating employers in SCRS and PORS will be made based on the actuarially determined rates based on provisions in the South Carolina Code of Laws. The contributions required for JSRS, GARS, and the SCNG are based on PEBA's current funding policy which include the change in funding in future years as a result of the enactment of the Retirement System Funding and Administration Act of 2017. Based on those assumptions, the System's fiduciary net position was projected to be available to make all the 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.

²The target weights to Private Equity, Private Debt and Real Estate will be equal to their actual weights as of prior month end. Private Equity and Public Equity will combine for 40 percent of entire portfolio. Private Debt and Mixed Credit will combine for 13 percent of the entire portfolio. Private Real Estate and Real Estate (REITs) will combine for 7 percent of the entire portfolio.

³Staff and Consultant will notify the Commission if Private Markets assets exceed 25% of total assets.

In accordance with GASB Statement No. 67 regarding the disclosure of the sensitivity of the net pension liability to changes in the discount rate, the following table presents the net pension liability of the participating employers calculated using the discount rate of 7.25 percent, as well as what the employers' net pension liability would be if it were calculated using a discount rate that is 1.00 percent lower (6.25 percent) or 1.00 percent higher (8.25 percent) than the current rate.

Discount Rate Sensitivity Analysis

(Amounts expressed in thousands)

	1	1% Decrease (6.25%)				1% Increase (8.25%)	
SCRS	\$	29,014,371	\$	22,511,608	\$	18,565,959	
PORS		3,698,928		2,739,561		1,983,880	
GARS		49,589		42,939		37,535	
JSRS		180,690		146,888		120,045	
SCNG		50,043		41,186		34,443	

XI. Death Benefit Program

In addition to monthly pension benefits provided through the Systems, a death benefit program is available to employers. For participating employers, incidental death benefits are provided for both active and retired members. These benefits are funded through separate death benefit programs within SCRS and PORS on a cost-sharing, multipleemployer basis. The assets in the death benefits fund are not held separately in a dedicated trust for the sole purpose of paying death benefits to beneficiaries of deceased members. These benefits are considered allowable within the defined benefit plans and are held within the pension trust funds. Coverage is provided to eligible active and retired working members as well as non-working retirees under the governing statute. Funding for the plans is collected as a percent of covered payroll as determined by the Systems' actuary and approved by the governing board. The current employer contribution rates for the programs are 0.15 percent and 0.20 percent of payroll for SCRS and PORS respectively. These contributions fund both the active and retiree death benefits.

Active Death Benefits

An incidental death benefit is payable upon the death of an SCRS, State ORP or PORS contributing member who worked for a participating employer at the time of death. The member must have been in service and had at least one full year of membership or must have died as a result of an injury arising in the course of performing his duties regardless of length of membership. The incidental death benefit is equal to the annual earnable compensation of the member at the time of death and is payable apart and separate from the payment of pension benefits.

Retiree Death Benefits

Retired members of SCRS and PORS whose last employer prior to retirement is covered by the program, and who met applicable service credit requirements, are also protected under the statesponsored death benefit program. Upon the death of a retired member, the beneficiary of a nonworking retiree will receive a benefit payment of \$2,000, \$4,000 or \$6,000 based on the member's total creditable service at the time of retirement.

Members who work after retirement by either participating in the TERI program or by returning to covered employment as a working retiree are

XII. Litigation

In addition to the litigation mentioned below, controversies or disputes between the South Carolina Retirement Systems and its members arising out of the provisions of Title 9 of the South Carolina Code of Laws (Retirement provisions) are resolved through the "South Carolina Retirement Systems Claims Procedures Act" established by S.C. Code Ann. §9-21-10 et seq. Claims brought pursuant to the Claims Procedures Act generally involve matters pertinent to the individual member or beneficiary. Claims may not be brought on behalf of a class under the Claims Procedures Act.

Marc S. Kirschner, as Litigation Trustee for the Tribune Litigation Trust v. Dennis J. Fitzsimmons, et al., United States District Court Southern District of New York, Case No. 1:11-cv-02652. This case is a bankruptcy litigation matter filed on December 20,

XIII. Pension Reform Legislation

The Retirement System Funding and Administration Act of 2017 was signed into law April 25, 2017, by Governor Henry McMaster. The Act became effective on July 1, 2017. A summary of the legislation is below.

This legislation represents the culmination of many individual's and organization's efforts, as well as the ongoing work of the General Assembly's Joint Committee on Pension Systems Review. It is designed to accelerate the state's ability to fully

eligible for an increased level of death benefits. Beneficiaries of working retirees are provided with a death benefit equal to the amount of the member's annual earnable compensation in lieu of the standard \$2,000, \$4,000 or \$6,000 retired member benefit.

All benefits provided by the Systems are included in the actuarial valuation, including the incidental death benefit program for SCRS, PORS, GARS and JSRS. The July 1, 2016 actuarial valuations reflect the inclusion of the assets and liabilities of the incidental death benefit program and accidental death benefits for PORS.

2011, and has been stayed since shortly after it was filed. The Plaintiff attempted to serve a summons on the South Carolina Retirement System in August 2013. SCRS is a defendant as a result of selling Tribune Company stock in connection with a leveraged buyout of the Tribune Company in 2007. Through this lawsuit the creditors of the Tribune Company are attempting to claw-back funds received by SCRS in connection with the sale of the stock. The plaintiff has asserted a claim of approximately two million dollars against SCRS. The South Carolina Retirement System Investment Commission contests the amount the plaintiff alleges SCRS received, contends that there are persuasive arguments favoring dismissal, and has engaged counsel to represent SCRS in this matter.

fund the unfunded liabilities of its retirement systems. It is also intended to create a cushion against adverse investment experience in the future.

The legislation lowered the retirement systems' assumed rate of return from 7.50 percent to 7.25 percent and reduced the maximum amortization period for the retirement systems from 30 years to 20 years over a ten-year schedule. The legislation also increased contribution rates for employees and

employers, with employee contribution rates capped. SCRS employee contributions rose from 8.66 percent to 9 percent and PORS contribution rates rose from 9.24 to 9.75 percent.

The SCRS employer contribution rate rose from 11.56 to 13.56 percent, and the PORS employer rate rose from 14.24 percent to 16.24 percent. Following this two-percent increase, the employer rates for each of these systems will rise 1 percent every year until July 1, 2022. The scheduled final employer rates are 18.56 percent for SCRS and 21.24 percent for PORS.

Finally, the legislation addressed various governance issues including the assignment of the PEBA Board as custodian of the Retirement Trust Funds and assignment of RSIC and PEBA as cotrustees.

The Joint Committee on Pension Systems Review has publicly stated that they will continue their work during fiscal year 2018 by evaluating plan design. PEBA will continue to work with the Joint Committee during its evaluation.

Schedule of Changes in the Employers' Net Pension Liability¹

Years Ended June 30 (Amounts expressed in thousands)

		SC	RS		PORS			
	2017	2016	2015	2014	2017	2016	2015	2014
Total pension liability								
Service Cost	\$ 804,057	\$ 763,357	\$ 744,197	\$ 739,021	\$ 166,682	\$ 156,567	\$ 154,102	\$ 149,606
Interest	3,318,051	3,231,572	3,148,090	3,021,004	473,059	453,696	435,329	417,950
Benefit Changes								-
Difference between actual and								
expected experience	54,584	46,714	(44,636)	638,745	5,044	11,582	6,771	64,336
Assumption Changes	1,746,649				333,190			
Benefit Payments	(3,035,119)	(2,782,738)	(2,705,547)	(2,571,049)	(376,801)	(360,656)	(344,410)	(331,783)
Net Change in Total Pension Liability	2,888,222	1,258,905	1,142,104	1,827,721	601,174	261,189	251,792	300,109
Total Pension Liability - Beginning	45,356,215	44,097,310	42,955,206	41,127,485	6,412,510	6,151,321	5,899,529	5,599,420
Total Pension Liability - Ending (a)	\$ 48,244,437	\$ 45,356,215	\$ 44,097,310	\$ 42,955,206	\$ 7,013,684	\$ 6,412,510	\$ 6,151,321	\$ 5,899,529
Plan Fiduciary Net Position								
Contributions - Employer	\$ 1,168,847	\$ 1,072,659	\$ 1,022,478	\$ 962,798	\$ 192,006	\$ 175,223	\$ 166,451	\$ 155,608
Contributions - Member	826,543	754,153	716,107	652,631	127,840	115,188	106,854	96,004
Refunds of contributions to members	(105,169)	(93,694)	(95,104)	(90,250)	(19,964)	(19,178)	(17,453)	(16,184)
Retirement benefits	(2,907,273)	(2,668,385)	(2,590,299)	(2,461,559)	(352,986)	(337,928)	(323,252)	(311,593)
Death benefits	(22,677)	(20,659)	(20,144)	(19,240)	(3,852)	(3,550)	(3,705)	(4,007)
Net Investment Income	2,791,215	(165,394)	374,152	3,517,324	455,914	(24,636)	58,705	538,386
Administrative Expense	(13,469)	(13,149)	(12,554)	(11,765)	(2,149)	(2,055)	(1,938)	(1,820)
Net transfers to affiliated systems	(1,550)	(997)	(1,329)	(2,470)	1,278	1,147	1,061	2,260
Net Change in Plan Fiduciary Net Position	1,736,467	(1,135,466)	(606,693)	2,547,469	398,087	(95,789)	(13,277)	458,654
Plan Fiduciary Net Position - Beginning	23,996,362	25,131,828	25,738,521	23,191,052	3,876,036	3,971,825	3,985,102	3,526,448
Plan Fiduciary Net Position - Ending (b)	\$ 25,732,829	\$ 23,996,362	\$ 25,131,828	\$ 25,738,521	\$ 4,274,123	\$ 3,876,036	\$ 3,971,825	\$ 3,985,102
Net Pension Liability - Ending (a) - (b)	\$ 22,511,608	\$ 21,359,853	\$ 18,965,482	\$ 17,216,685	\$ 2,739,561	\$ 2,536,474	\$ 2,179,496	\$ 1,914,427
2	7 22,511,500	+ 11,000,000	T 10,303, 102	+ 17,1210,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7 2,555,171	+ =,=, 3, 130	+ 1,511,121

¹ Schedules are intended to show information for 10 years. Additional years will be displayed as they become available.

Schedule of Changes in the Employers' Net Pension Liability¹

Years Ended June 30 (Amounts expressed in thousands)

	GARS				JSRS			
	2017	2016	2015	2014	2017	2016	2015	2014
Total pension liability								
Service Cost	\$ 488	\$ 493	\$ 553	\$ 572	\$ 6,186	\$ 5,886	\$ 5,760	\$ 5,571
Interest	5,293	5,301	5,380	5,437	20,404	20,022	19,440	18,857
Benefit Changes							666	
Difference between actual and								
expected experience	(348)	798	(294)	(2,585)	(995)	(3,085)	(1,138)	(3,240)
Assumption Changes	2,330				13,790			
Benefit Payments	(6,737)	(6,656)	(6,660)	(6,861)	(18,602)	(17,191)	(16,836)	(16,684)
Net Change in Total Pension Liability	1,026	(64)	(1,021)	(3,437)	20,783	5,632	7,892	4,504
Total Pension Liability - Beginning	73,702	73,766	74,787	78,224	278,256	272,624	264,732	260,228
Total Pension Liability - Ending (a)	\$74,728	\$73,702	\$73,766	\$ 74,787	\$ 299,039	\$ 278,256	\$ 272,624	\$ 264,732
Plan Fiduciary Net Position								
Contributions - Employer	\$ 4,539	\$ 4,501	\$ 4,275	\$ 4,063	\$ 10,534	\$ 10,202	\$ 10,109	\$ 9,659
Contributions - Member	۶ 4 ,559 468	7 4,501 292	369	384	2,928	2,303	3,153	2,448
Refunds of contributions to members	400	(22)	303	(41)	(629)	(60)	3,133	2,440
Retirement benefits	(6,678)	(6,625)	(6,639)	(6,799)	(17,679)	(16,989)	(16,832)	(16,675)
Death benefits	(59)	(9)	(21)	(20)	(293)	(143)	(4)	(10)
Net Investment Income	3,329	(266)	500	4,545	16,399	(871)	2,216	19,962
Administrative Expense	(17)	(18)	(18)	(17)	(79)	(75)	(71)	(68)
Net transfers to affiliated systems	19	(147)	(18)	15	253	(3)	286	195
Net Change in Plan Fiduciary Net Position	1,601	(2,294)	(1,552)	2,130	11,434	(5,636)	(1,143)	15,511
Plan Fiduciary Net Position - Beginning	30,188	32,482	34,034	31,904	140,717	146,353	147,496	131,985
Plan Fiduciary Net Position - Ending (b)	\$ 31,789	\$ 30,188	\$ 32,482	\$ 34,034	\$ 152,151	\$ 140,717	\$ 146,353	\$ 147,496
Net Pension Liability - Ending (a) - (b)	\$ 42,939	\$ 43,514	\$41,284	\$ 40,753	\$ 146,888	\$ 137,539	\$ 126,271	\$ 117,236

¹ Schedules are intended to show information for 10 years. Additional years will be displayed as they become available.

Schedule of Changes in the Employers' Net Pension Liability¹

Years Ended June 30 (Amounts expressed in thousands)

	SCNG					
	2017	2016	2015	2014		
Total pension liability						
Service Cost	\$ 696	\$ 689	\$ 690	\$ 697		
Interest	4,589	4,594	4,481	4,417		
Benefit Changes						
Difference between actual and						
expected experience	(843)	(992)	612	(262)		
Assumption Changes	4,161					
Benefit Payments	(4,426)	(4,310)	(4,249)	(4,248)		
Net Change in Total Pension Liability	4,177	(19)	1,534	604		
Total Pension Liability - Beginning	63,045	63,064	61,530	60,926		
Total Pension Liability - Ending (a)	\$67,222	\$ 63,045	\$ 63,064	\$ 61,530		
Plan Fiduciary Net Position	4	4	4			
Contributions - Employer	\$ 4,591	\$ 4,591	\$ 4,591	\$ 4,586		
Contributions - Member						
Refunds of contributions to members	(4.405)	(4.040)	(4.2.40)	(4.240)		
Retirement benefits	(4,425)	(4,310)	(4,249)	(4,248)		
Death benefits		()				
Net Investment Income	2,533	(121)	313	2,806		
Administrative Expense	(13)	(12)	(11)	(10)		
Net transfers to affiliated systems						
Net Change in Plan Fiduciary Net Position	2,686	148	644	3,134		
Plan Fiduciary Net Position - Beginning	23,350	23,202	22,558	19,424		
Plan Fiduciary Net Position - Ending (b)	\$ 26,036	\$ 23,350	\$ 23,202	\$ 22,558		
Net Pension Liability - Ending (a) - (b)	\$41,186	\$ 39,695	\$ 39,862	\$ 38,972		

¹ Schedules are intended to show information for 10 years. Additional years will be displayed as they become available.

Schedule of Employers' Net Pension Liability¹

(Dollar amounts expressed in thousands)

				Plan Fiduciary Net Position as a		
			Employers' Net	Percentage of	Projected	Net Pension Liability
	Total Pension	Plan Fiduciary	Pension Liability	the Total Pension	Covered	as a Percentage of
	Liability	Net Position	(Asset)	Liability	Payroll ²	Covered Payroll
SCRS						
6/30/2017	\$ 48,244,437	\$ 25,732,829	22,511,608	53.3%	\$ 8,213,042	274.1%
6/30/2016	45,356,215	23,996,362	21,359,853	52.9%	7,765,588	275.1%
6/30/2015	44,097,310	25,131,828	18,965,482	57.0%	7,539,996	251.5%
6/30/2014	42,955,206	25,738,521	17,216,685	59.9%	7,434,820	231.6%
PORS						
6/30/2017	7,013,684	4,274,123	2,739,561	60.9%	1,187,195	230.8%
6/30/2016	6,412,510	3,876,036	2,536,474	60.4%	1,105,703	229.4%
6/30/2015	6,151,321	3,971,825	2,179,496	64.6%	1,076,885	202.4%
6/30/2014	5,899,529	3,985,102	1,914,427	67.5%	1,033,189	185.3%
GARS						
6/30/2017	74,728	31,789	42,939	42.5%	2,316	1,853.7%
6/30/2016	73,702	30,188	43,514	41.0%	2,338	1,861.0%
6/30/2015	73,766	32,482	41,284	44.0%	2,601	1,587.5%
6/30/2014	74,787	34,034	40,753	45.5%	2,688	1,516.2%
JSRS						
6/30/2017	299,039	152,151	146,888	50.9%	21,958	668.9%
6/30/2016	278,256	140,717	137,539	50.6%	21,267	646.7%
6/30/2015	272,624	146,353	126,271	53.7%	20,815	606.6%
6/30/2014	264,732	147,496	117,236	55.7%	20,407	574.5%
SCNG						
6/30/2017	67,222	26,036	41,186	38.7%	Not Applicable ³	Not Applicable ³
6/30/2016	63,045	23,350	39,695	37.0%	Not Applicable ³	Not Applicable ³
6/30/2015	63,064	23,202	39,862	36.8%	Not Applicable ³	Not Applicable ³
6/30/2014	61,530	22,558	38,972	36.7%	Not Applicable ³	Not Applicable ³

¹ Schedules are intended to show information for 10 years. Additional years will be displayed as they become available.

² Projected covered payroll is based on the actuarial valuation associated with the measurement date and includes payroll for members earning but not yet receiving benefits.

³ The contributions and benefits associated with the SCNG are not determined as a function of payroll.

Schedule of Employers' Contributions

(Dollar amounts expressed in thousands)

	Actuarially	Amount of	Difference Between Actuarially	Projected	Percentage of
	Determined	Contributions	Determined Contributions ² and	Covered	Contributions to Covered
	Contributions ¹	Recognized	Contributions Recognized	Payroll ³	Payroll
SCRS					
6/30/2017	\$ 1,168,847	\$ 1,168,847	\$ -	\$ 8,213,042	14.2%
6/30/2016	1,072,659	1,072,659		7,765,588	13.8%
6/30/2015	1,022,478	1,022,478		7,539,996	13.6%
6/30/2014	962,798	962,798		7,434,820	12.9%
6/30/2013	948,157	948,157		7,356,231	12.9%
6/30/2012	824,652	824,652		7,687,558	10.7%
6/30/2011	808,343	808,343		7,769,820	10.4%
6/30/2010	818,523	818,523		7,761,808	10.5%
6/30/2009	827,502	827,502		7,559,172	10.9%
6/30/2008	774,269	774,269		7,093,181	10.9%
PORS					
6/30/2017	192,006	192,006		1,187,195	16.2%
6/30/2016	175,223	175,223		1,105,703	15.8%
6/30/2015	166,451	166,451		1,076,885	15.5%
6/30/2014	155,608	155,608		1,033,189	15.1%
6/30/2013	143,389	143,389		1,019,241	14.1%
6/30/2012	134,299	134,299		1,087,587	12.3%
6/30/2011	129,314	129,314		1,076,467	12.0%
6/30/2010	123,163	123,163		1,084,154	11.4%
6/30/2009	124,148	124,148		1,060,747	11.7%
6/30/2008	114,095	114,095		992,849	11.5%
GARS ⁴					
6/30/2017	4,539	4,539		2,316	196.0%
6/30/2016	4,501	4,501		2,338	192.5%
6/30/2015	4,275	4,275		2,601	164.4%
6/30/2014	4,063	4,063		2,688	151.2%
6/30/2013	2,831	2,831		3,854	73.5%
6/30/2012	2,532	2,532		3,854	65.7%
6/30/2011	2,414	2,414		3,854	62.6%
6/30/2010	2,598	2,598		3,854	67.4%
6/30/2009	2,495	2,495		3,854	64.7%
6/30/2008	2,440	2,440		3,854	63.3%

Schedule of Employers' Contributions continued on next page

Schedule of Employers' Contributions (cont.)

(Dollar amounts expressed in thousands)

	Actuarially Amount of		Difference Between Actuarially	Projected	Percentage of
	Determined Contributions		Determined Contributions ² and	Covered	Contributions to Covered
_	Contributions ¹	Recognized	Contributions Recognized	Payroll ³	Payroll
JSRS					
6/30/2017	\$ 10,534	\$ 10,534	\$ -	\$ 21,958	48.0%
6/30/2016	10,202	10,202		21,267	48.0%
6/30/2015	10,109	10,109		20,815	48.6%
6/30/2014	9,659	9,659		20,407	47.3%
6/30/2013	8,667	8,667		19,221	45.1%
6/30/2012	8,414	8,414		18,661	45.1%
6/30/2011	8,414	8,414		18,661	45.1%
6/30/2010	8,414	8,414		18,661	45.1%
6/30/2009	8,414	8,414		18,661	45.1%
6/30/2008	7,613	7,613		16,407	46.4%
SCNG ⁵					
6/30/2017	4,509	4,591	(82)	Not Applicable	Not Applicable
6/30/2016	4 <i>,</i> 570	4,591	(21)	Not Applicable	Not Applicable
6/30/2015	4,591	4,591		Not Applicable	Not Applicable
6/30/2014	4,586	4,586		Not Applicable	Not Applicable
6/30/2013	4,539	4,539		Not Applicable	Not Applicable
6/30/2012	3,937	3,937		Not Applicable	Not Applicable
6/30/2011	3,905	3,905		Not Applicable	Not Applicable
6/30/2010	3,945	3,945		Not Applicable	Not Applicable
6/30/2009	4,052	4,052		Not Applicable	Not Applicable
6/30/2008	3,923	3,923		Not Applicable	Not Applicable

¹ The actuarially determined contribution rate for SCRS and PORS is determined in accordance with the SC State Code of Laws. The contribution rate for JSRS is based on the funding policy maintained by the SC Public Employee Benefit Authority. Includes employer contributions on employee payroll of members in TERI as well as contributions remitted to SCRS on the payroll of employees participating in State ORP.

² The actuarially determined contributions are based on the funding policy maintained by the SC Public Employee Benefit Authority.

³ Projected covered payroll is based on the actuarial valuation associated with the measurement date and includes payroll for members earning but not yet receiving benefits.

 $^{^{4}}$ GARS was closed to new members beginning with the 2012 general election.

⁵ Benefits for members in the SCNG are not a function of pay. For years prior to June 30, 2010, the Annual Pension Cost (APC) for SCNG includes both the Annual Required Contribution (ARC) and the discounted present value of the balance of the Net Pension Obligation (NPO). For fiscal years ended June 30, 2010 forward, the APC was calculated as part of the actuarial valuation and includes in the ARC.

Schedule of Investment Returns¹

Fiscal Year Ending June 30	Annual Money Weighted Rate of Return, Net of Investment Expense
2017	11.88%
2016	(.47)
2015	1.59
2014	15.30

¹Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Notes to Required Supplementary Information

The following table provides a summary of the actuarial methods and significant assumptions used in calculations of the actuarially determined contributions for each of the individual plans administered by PEBA.

Summary of Actuarial Methods and Significant Assumptions

	SCRS	PORS	GARS	JSRS	SCNG
Valuation date	07/01/15	07/01/15	07/01/14	07/01/14	07/01/15
Actuarial cost method	Entry age normal	Entry age normal	Entry age normal	Entry age normal	Entry age normal
Amortization method	Level percent of	Level percent of	Level dollar	Level percent of	Level dollar
	pay	pay		pay	
Amortization period	30 years variable,	27 years variable,	13 years, closed	28 years variable,	17 years, closed
	but not to exceed	but not to exceed		but not to exceed	
	30 years ²	30 years ²		30 years	
Asset Valuation method	5-Year Smoothed	5-Year Smoothed	5-Year Smoothed	5-Year Smoothed	5-Year Smoothed
Actuarial assumptions:					
Inflation rate	2.75%	2.75%	2.75%	2.75%	2.75%
Projected salary	3.5% plus step-rate	4.0% plus step-rate	None	3.00% ¹	None
increases	increases for	increases for			
	members with less	members with less			
	than 25 years of	than 12 years of			
	service ¹	service ¹			
Investment rate of	7.50%²	7.50%²	7.50%²	7.50%²	7.50%²
return	lesser of 1% or	lesser of 1% or	None	3.00%	None
Benefit adjustments	\$500 annually	\$500 annually			

¹Includes inflation at 2.75%.

² Pension reform legislation enacted effective July 1, 2017 lowered the investment rate of return from 7.50 to 7.25 percent and schedules the amortization period to be reduced one year for each of the next 10 years, to 20 years.

SCRS Pension Trust Fund Year Ended June 30, 2017

	EMPLOYEE FUND			QEBA FUND	TOTAL	2016 TOTAL
Additions						
Employee contributions						
State department employees	\$ 222,319	\$ 28,492	\$ -	\$ -	\$ 250,811	\$ 231,688
Public school employees	312,382	40,239			352,621	323,222
Other political subdivision employees	208,323	14,788			223,111	199,243
Employer contributions						
State department employees		383,187	5,665	642	389,494	353,805
Public school employees		482,692	6,604		489,296	454,782
Other political subdivision employees		286,799	3,258		290,057	264,072
Total contributions	743,024	1,236,197	15,527	642	1,995,390	1,826,812
Investment Income						
Net appreciation (depreciation)						
in fair value of investments		2,628,819	12,984		2,641,803	(279,345)
Interest and dividend income		414,880	2,045		416,925	337,913
Investment expense		(266,855)	(1,318)		(268,173)	(224,772)
Net income (loss) from investing activities		2,776,844	13,711		2,790,555	(166,204)
From securities lending activities:						
Securities lending income		486	2		488	161
Securities lending borrower rebates		172			172	649
Net income from securities lending activities		658	2		660	810
Total net investment income (loss)		2,777,502	13,713		2,791,215	(165,394)
Supplemental retirement benefits funded by the State		393			393	434
Transfers of contributions from other Systems						177
Total additions	743,024	4,014,092	29,240	642	4,786,998	1,662,029
Deductions						
Refunds of contributions to members	105,169				105,169	93,694
Transfers of contributions to other Systems	1,055	495			1,550	1,174
Regular retirement benefits	1,033	2,574,217		642	2,574,859	2,473,541
Deferred retirement benefits		332,414		0.12	332,414	194,844
Supplemental retirement benefits		393			393	434
Death Benefits		(96)	22,773		22,677	20,659
Depreciation		235	1		236	271
Administrative expenses		13,168	65		13,233	12,878
Total deductions	106,224	2,920,826	22,839	642	3,050,531	2,797,495
Interfund transfers according to statutory requirements	,	,				
Contributions by members at retirement	(404,589)	404,589				
Interest credited to members' accounts	259,197	(259,197)				
Net interfund transfers	(145,392)	145,392				
Net increase (decrease) in Net Position	491,408	1,238,658	6,401		1,736,467	(1,135,466)
Net Position Restricted for Pensions						
Beginning of year	7,447,442	16,430,986	117,934		23,996,362	25,131,828
End of year	\$ 7,938,850	\$ 17,669,644	\$ 124,335	\$ -	\$ 25,732,829	\$ 23,996,362

PORS Pension Trust Fund Year Ended June 30, 2017

With comparative totals for the year ended June 30, 2016

(Amounts e	pressed in	thousands)
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					DEA	TH	ACC	ACCIDENTAL					
	EMP	LOYEE	EN	IPLOYER	BENE	FIT		DEATH	QEBA				
	FU	ND	F	UND	FUN	ID		FUND	FUND		TOTAL	20:	L6 TOTAL
Additions													
Employee contributions													
State department employees	\$	37,885	\$	2,049	\$	-	\$	-	\$ -	\$	39,934	\$	35,606
Public school employees		27		409							436		8,605
Other political subdivision employees		78,733		8,737							87,470		70,977
Employer contributions													
State department employees				58,069		838	\$	838	2		59,747		54,366
Public school employees				655		9		9			673		604
Other political subdivision employees				128,107		,789		1,690		_	131,586		120,253
Total contributions	1	16,645		198,026	2,	,636		2,537	2		319,846		290,411
Investment Income													
Net appreciation (depreciation)													
in fair value of investments				421,961	4	,231		5,661			431,853		(42,672)
Interest and dividend income				66,700	-7	667		892			68,259		54,003
Investment expense				(43,291)	((434)		(581)			(44,306)		(36,096)
Net income (loss) from investing activities				445,370		,464		5,972		_	455,806		(24,765)
From securities lending activities:										_		-	
Securities lending income				78		1		1			80		26
Securities lending borrower rebates				28							28		103
Net income from securities lending activities				106		1		1			108		129
Total net investment income (loss)				445,476	4	,465		5,973			455,914		(24,636)
Supplemental retirement benefits funded by the State				15							15		18
Transfers of contributions from other Systems		783		495							1,278		1,174
Total additions	1	17,428		644,012	7,	,101		8,510	2		777,053		266,967
Deductions													
Refunds of contributions to members		19,964									19,964		19,178
Transfers of contributions to other Systems		13,304									13,304		27
Regular retirement benefits				352,984					2		352,986		337,928
Supplemental retirement benefits				15					2		332,360 15		18
Death Benefits				13	2	,104					2,104		1,960
Accidental death benefits					۷,	,104		1,748			1,748		1,590
Depreciation				32				1,740			32		37
Administrative expenses				2,068		21		28			2,117		2,018
Total deductions		19,964		355,099	2	,125		1,776	2		378,966		362,756
Interfund transfers according to statutory requirements													
Contributions by members at retirement	•	66,252)		66,252									
Interest credited to members' accounts		34,615		(34,615)									
Net interfund transfers		31,637)		31,637									(0= =00)
Net increase (decrease) in Net Position		65,827		320,550	4,	,976		6,734			398,087		(95,789)
Net Position Restricted for Pensions													
Beginning of year		68,722		2,818,531		,980		50,803		_	3,876,036		3,971,825
End of year	\$ 1,0	34,549	\$ 3	3,139,081	\$ 42	,956	\$	57,537	\$ -	\$	4,274,123	\$:	3,876,036

GARS Pension Trust Fund Year Ended June 30, 2017

	EMPLOYEE		EMPLOYER		R			
	FU	JND		FUND	Т	OTAL	201	6 TOTAL
Additions								
Contributions								
Employee contributions - State departments	\$	468	\$	-	\$	468	\$	292
Employer contributions - State departments				4,539		4,539		4,501
Total contributions		468		4,539		5,007		4,793
Investment Income								
Net appreciation (depreciation)								
in fair value of investments				3,130		3,130		(422)
Interest and dividend income				510		510		420
Investment expense				(312)		(312)		(265)
Net income (loss) from investing activities	-			3,328		3,328		(267)
From securities lending activities:	-							
Securities lending income				1		1		
Securities lending borrower rebates								1
Net income from securities lending activities				1		1		1
Total net investment income (loss)				3,329		3,329		(266)
Transfers of contributions from other Systems		19				19		
Total additions ,		487		7,868		8,355		4,527
Deductions								
Refunds of contributions to members								22
Transfers of contributions to other Systems								147
Regular retirement benefits				6,678		6,678		6,625
Death benefits				59		59		9
Depreciation								1
Administrative expenses				17		17		17
Total deductions				6,754		6,754		6,821
Interfund transfers according to statutory requirements		_						
Contributions by members at retirement		(1,167)		1,167				
Interest credited to members' accounts		198		(198)				
Net interfund transfers		(969)		969				
Net increase (decrease) in Net Position		(482)		2,083		1,601		(2,294)
Net Position Restricted for Pensions								
Beginning of year		7,334		22,854		30,188		32,482
End of year	\$	6,852	\$	24,937	\$	31,789	\$	30,188

JSRS Pension Trust Fund Year Ended June 30, 2017

	EMPLO	YEE	EM	PLOYER	O	EBA				
	FUN	D		FUND	FUND			TOTAL	201	L6 TOTAL
Additions										
Contributions										
Employee contributions - State departments	\$ 2,	641	\$	287	\$	-	\$	2,928	\$	2,303
Employer contributions - State departments				10,381		153		10,534		10,202
Total contributions	2,	641		10,668		153		13,462		12,505
Investment Income										
Net appreciation (depreciation)										
in fair value of investments				15,462				15,462		(1,577)
Interest and dividend income				2,488				2,488		2,000
Investment expense				(1,555)				(1,555)		(1,299)
Net income (loss) from investing activities				16,395				16,395		(876)
From securities lending activities:										
Securities lending income				3				3		1
Securities lending borrower rebates				1				1		4
Net income from securities lending activities				4				4		5
Total net investment income (loss)				16,399				16,399		(871)
Transfers of contributions from other Systems		253						253		27
Total additions	2,	894		27,067		153		30,114		11,661
Deductions										
Refunds of contributions to members		629						629		60
Transfer of contributions to other Systems										30
Regular retirement benefits				17,526		153		17,679		16,989
Deferred retirement benefits										
Death benefits				293				293		143
Depreciation				1				1		1
Administrative expenses				78				78		74
Total deductions		629		17,898		153		18,680		17,297
Interfund transfers according to statutory requirements										
Contributions by members at retirement	(1,	601)		1,601						
Interest credited to members' accounts	-	957		(957)						
Net interfund transfers	(644)	-	644						
Net increase (decrease) in Net Position	1,	621		9,813				11,434		(5,636)
	,			-				-		, , ,
Net Position Restricted for Pensions Beginning of year	2.5	റഠാ	,	115 625				140,717		146 252
End of year		082 703		115,635 125,448	\$			152,151		146,353 140,717
Lifu of year	, 20	703	<u>ې .</u>	123,440	۲		<u>ې</u>	132,131	<u>ې</u>	140,/1/

SCNG Pension Trust Fund Year Ended June 30, 2017

	2017 Total		2016 Total		
Additions					
Contributions					
State appropriated contributions	\$	4,591	\$	4,591	
Total contributions		4,591		4,591	
Investment Income					
Net appreciation (depreciation)					
in fair value of investments		2,384		(220)	
Interest income		395		295	
Investment expense		(246)		(197)	
Net Income (loss) from investing activities		2,533		(122)	
From securities lending activities:					
Securities lending income					
Securities lending borrower rebates				1	
Net income from securities lending activities				1	
Total net investment income (loss)		2,533		(121)	
Total additions		7,124		4,470	
Deductions					
Regular retirement benefits		4,425		4,310	
Administrative expenses		13		12	
Total deductions		4,438		4,322	
Net increase in Net Position		2,686		148	
Net Position Restricted for Pensions					
Beginning of year		23,350		23,202	
End of year	\$	26,036	\$	23,350	

South Carolina Retirement Systems Schedule of Administrative Expenses

Year Ended June 30, 2017 (Amounts expressed in thousands)

	SCRS	PORS	GARS	JSRS	SCNG	TOTAL
Personal Services						
Salaries and Wages	\$ 7,435	\$ 1,190	\$ 10	\$ 44	\$ 7	\$ 8,686
Employee Benefits	2,569	411	3	15	3	3,001
Contractual Services						
Information Technology	836	133	1	5	1	976
Medical & Health Services	375	60	1	2	1	439
Financial Audit	161	26		1		188
Actuarial Services	415	66	1	2	1	485
Other Professional Services	332	53		2		387
Legal Services	31	5				36
Operating Expenses						
Facilities Management	232	38		1		271
Telephone	132	21		1		154
Insurance	187	30		1		218
Postage	102	16		1		119
Supplies	78	12		1		91
Other Miscellaneous Expenses	348	56	1	2		407
Total Administrative Expenses	\$ 13,233	\$ 2,117	\$ 17	\$ 78	\$ 13	\$ 15,458

South Carolina Retirement Systems Schedule of Professional and Consultant Fees^{1,2}

Year Ended June 30, 2017 (Amounts expressed in thousands)

Professional / Consultant Type	Nature of Service Provided	Amounts Paid
Information Technology (IT)		
Data Network Solutions	IT Maintenance and Support	\$ 19
eGroup Holding Company	IT Security Maintenance and Support	36
OPTIV Security	IT Security Consulting Services	49
Ram Technologies	IT and Phone Services	12
SAP Public Services	IT Maintenance and Support	10
SunGard Availability Services	IT Disaster Recovery	159
Tapfin	Application Development Resources	168
Legal		
Ice Miller	IRC Consulting Services	14
Sowell Gray Robinson	Legal Services	16
Management		
CEM Benchmarking	Benchmarking Service	45
CliftonLarsonAllen	Audit	188
Gabriel Roeder Smith & Company	Actuary Services	360
Segal Consulting	Actuarial Audit	125
Summit Strategies	Optional Retirement Plan Consultants	115
Team IA	Imaging Maintenance/Auditing	157
USC Department of Internal Medicine	Disability Review	130
Vocational Rehabilitation	Disability Review	309
		\$ 1,912
		<u> ۲٫۶۱۲</u>

¹ A Schedule of Investment Managers and Fees can be found in the Investment Section of this report.

² Vendor payments less than \$10,000 are excluded from this schedule.

South Carolina Retirement Systems Schedule of Investment Fees and Expenses

Year Ended June 30, 2017 (Amounts expressed in thousands)

		SCRS	PORS		GARS		JSRS		SCNG		TOTALS ¹	
Short Term	\$	2,093	\$	345	\$	2	\$	12	\$	2	\$	2,454
Fixed Income:												
Core Fixed Income		3,063		504		3		18		3		3,591
Mixed Credit		8,421		1,388		10		49		8		9,876
Emerging Market Debt		5,802		956		7		34		5		6,804
Global Public Equity		21,530		3,545		25		126		20		25,246
Equity Options Strategy		3,115		512		4		18		3		3,652
Infrastructure		1,270		209		2		7		1		1,489
Global Tactical Asset Allocation		8,612		1,422		10		50		8		10,102
Alternatives:												
Hedge Funds		57,754		9,560		66		334		53		67,767
Private Debt		35,983		5,956		42		208		33		42,222
Private Equity		65,414		10,828		76		379		60		76,757
Real Estate		35,406		5,858		41		205		32		41,542
Strategic Partnerships ²		8,768		1,451		10		51		8		10,288
Beta Overlay		950		156		1		6		1		1,114
Total Investment Manager Fees	2	58,181		42,690		299		1,497		237	3	02,904
Bank Fees and Investment Expenses ³		9,992		1,616		13		58		9		11,688
Total Investment Expenses	2	68,173		44,306		312		1,555		246	3	14,592
Securities Lending Expenses:												
Borrower Rebates	\$	(172)	\$	(28)	\$	-	\$	(1)	\$			(201)
Total Securities Lending Expenses	\$	(172)	\$	(28)	\$		\$	(1)	\$		\$	(201)

¹ All investment manager fees, whether directly invoiced (\$48,313) or deducted from the fund on a net basis (\$254,591) are classified and reported as Investment Expense. Investment expenses include amounts for investment management fees, performance fees (including carried interest allocations), other expenses such as organizational expenses in limited partnership structures as well as offsets which may have the effect of reducing the total.

² Represents management and other fees at the Strategic Partnership level, not fees at the underlying investment level included in each applicable asset class.

³ Includes miscellaneous investment expenses, commissions on futures, bank fees and RSIC administrative expenses.

Investment Section



August 31, 2017

The Honorable Henry McMaster, Governor State Fiscal Accountability Authority Members of the General Assembly of South Carolina

RE: FYE 2017 Report

Dear Governor and Members:

As the investment consultant for the Retirement System Investment Commission (RSIC), Aon Hewitt Investment Consulting (AHIC) is pleased to submit this summary of the investment structure and performance of the South Carolina Retirement System (SCRS) investment portfolio for the fiscal year ended (FYE) June 30, 2017.

The 2016-17 fiscal year was led by strong performance across equity markets, specifically, non-U.S. equity markets as investors focused on central bank activity and election results in the U.S. and across Europe. The Federal Reserve's decision to raise rates twice during the fiscal year, once in December and again in March, along with decreasing inflation expectations left fixed income markets muted. Non-U.S. equity markets outpaced domestic equity markets in three of the four quarters while U.S. equity markets only outpaced markets overseas following the U.S. election results in November, as the new administration's anticipated reflation policies boosted returns. The momentum triggered by the prospects of U.S. reflationary policies that carried global equity markets higher in late 2016/early 2017 stuttered and was ultimately replaced by strong corporate and economic fundamentals.

Throughout the fiscal year, the Commission and its staff worked hard to further several long-term initiatives, including:

- Reviewing asset allocation and adopting a new long-term asset allocation policy in April
- Refining investment strategy to lower costs, where possible

During the fiscal year ending June 30, 2017, the SCRS investment portfolio returned 11.9% (net-of-fee basis), and outperformed its Policy Index by 0.1 percentage point. Over the trailing three-year period ending June 30, 2017, the SCRS portfolio returned 4.2%, underperforming its Policy Index by 0.3 percentage points. Over the trailing five-year period ending June 30, 2017, the SCRS portfolio returned 7.5% and outperformed its Policy Index by 0.4 percentage points. All returns are reported on a time-weighted return basis.

As of June 30, 2017, the SCRS investment portfolio totaled \$30.1 billion. This represented an increase of \$2.1 billion from its value on June 30, 2016, due to investment gains of \$3.2 billion and net outflows of \$1.1 billion. The portfolio's asset allocation at fiscal year-end was as follows:

Global Public Equities	35.1%
Core Fixed Income	10.0%
Global Asset Allocation	9.3%
Private Equity	7.6%
Mixed Credit	6.7%
Private Debt	5.9%
Private Real Estate	5.9%
Equity Options	5.2%
Emerging Markets Debt	5.2%
Other Opportunistic Strategies	2.8%
Hedge Funds Non-Portable Alpha	1.6%
World Infrastructure	1.4%
Public Real Estate	1.3%
Cash and Short Duration (net of overlays)	2.0%1
Total	100.0%
Hedge Funds Portable Alpha	7.7%2

The investment portfolio's June 30, 2017 asset allocation was within statutory limits and was consistent with the targets and ranges set forth in the Annual Investment Plan and in the Statement of Investment Objectives and Policy.

We at AHIC have been honored to serve as the investment consultant to the RSIC.

Sincerely,

Suzanne M. Bernard, CFA, CAIA

Sujanne M. Bernard

Partner

Aon Hewitt Investment Consulting

¹ Cash and Short Duration are net of collateral supporting the Overlay Program.

² Hedge Funds Portable Alpha represents the gross exposure utilized in the Overlay Program and is offset at the Total Plan leve I.

The investment performance information provided in the Investment Section of the *Comprehensive Annual Financial Report* is provided by the Systems' custodian, BNY Mellon, and is independently calculated using a time weighted rate of return.

South Carolina Retirement System Summary of Investment Growth

(Amounts expressed in thousands)

Year Ended		air Value of	Fair Value % Increase/Decrease		et Income .oss) from	Net Income (Loss) % Increase/Decrease
June 30,	In	vestments ¹	for Year	In	vestments	for Year
2017	\$	26,083,511	6.13%	\$	2,790,555	1,778.99%
2016		24,576,968	(4.39%)		(166,204)	(144.62%)
2015		25,707,561	0.65%		372,452	(89.41%)
2014		25,540,648	7.48%		3,515,834	59.84%
2013		23,762,666	7.50%		2,199,550	1,934.60%
2012		22,105,265	(4.85%)		108,107	(96.99%)
2011		23,232,653	17.26%		3,596,902	37.67%
2010		19,812,203	8.62%		2,612,663	154.95%
2009		18,240,380	(21.05%)		(4,754,668)	(641.53%)
2008		23,103,046	(6.77%)		(641,196)	(121.38%)

Police Officers Retirement System Summary of Investment Growth

Year Ended June 30,	ir Value of	Fair Value % Increase/Decrease for Year	(Lo	et Income oss) from restments	Net Income (Loss) % Increase/Decrease for Year
2017	\$ 4,319,861	9.11%	\$	455,806	1,940.52%
2016	3,959,326	(2.31%)		(24,765)	(142.38%)
2015	4,052,870	2.69%		58,440	(89.14%)
2014	3,946,522	9.44%		538,157	63.05%
2013	3,606,143	9.29%		330,061	1,839.14%
2012	3,299,647	(2.58%)		17,021	(96.72%)
2011	3,386,895	19.93%		519,363	43.25%
2010	2,824,156	11.33%		362,566	156.79%
2009	2,536,671	(18.18%)		(638,389)	(647.40%)
2008	3,100,417	(4.83%)		(85,415)	(122.80%)

¹ Fair Value also includes investment categories classified as cash equivalents for financial statement purposes. Investments made with cash collateral received in the securities lending program are excluded.

General Assembly Retirement System Summary of Investment Growth

(Amounts expressed in thousands)

Year Ended June 30,	Value of estments ¹	Fair Value % Increase/Decrease for Year	(Lo	Income ss) from estments	Net Income (Loss) % Increase/Decrease for Year
2017	\$ 32,192	4.37%	\$	3,328	1,346.44%
2016	30,845	(6.89%)		(267)	(153.61%)
2015	33,129	(1.61%)		498	(89.04%)
2014	33,671	3.56%		4,543	45.75%
2013	32,515	2.11%		3,117	1,733.53%
2012	31,843	(10.27%)		170	(97.01%)
2011	35,488	8.65%		5,680	22.36%
2010	32,662	2.79%		4,642	149.34%
2009	31,777	(27.02%)		(9,409)	(728.26%)
2008	43,544	(9.27%)		(1,136)	(119.09%)

Judges and Solicitors Retirement System Summary of Investment Growth

Year Ended June 30,	r Value of estments ¹	Fair Value % Increase/Decrease for Year	(Lo	t Income ess) from estments	Net Income (Loss) % Increase/Decrease for Year
2017	\$ 153,976	7.03%	\$	16,395	1,971.58%
2016	143,863	(3.62%)		(876)	(139.71%)
2015	149,265	2.20%		2,206	(88.94%)
2014	146,095	8.25%		19,954	58.03%
2013	134,963	7.75%		12,627	1,527.19%
2012	125,255	(3.91%)		776	(96.14%)
2011	130,357	17.65%		20,086	37.14%
2010	110,798	9.44%		14,646	154.77%
2009	101,244	(19.64%)		(26,741)	(693.27%)
2008	125,987	(7.00%)		(3,371)	(121.05%)

¹ Fair Value also includes investment categories classified as cash equivalents for financial statement purposes. Investments made with cash collateral received in the securities lending program are excluded.

South Carolina National Guard Supplemental Retirement Plan Summary of Investment Growth

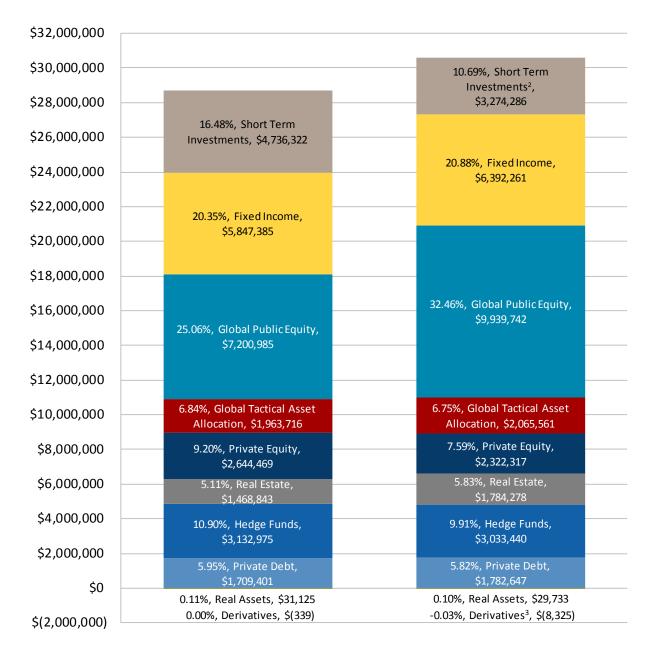
Year Ended June 30,	Value of estments ¹	Fair Value % Increase/Decrease for Year	(Lo	Income ss) from estments	Net Income (Loss) % Increase/Decrease for Year
2017	\$ 26,400	10.55%	\$	2,533	2,176.23%
2016	23,880	0.75%		(122)	(139.10%)
2015	23,701	5.73%		312	(88.87%)
2014	22,417	12.63%		2,805	67.46%
2013	19,904	12.69%		1,675	1,701.08%
2012	17,662	(1.13%)		93	(96.33%)
2011	17,864	19.04%		2,531	35.71%
2010	15,007	16.25%		1,865	146.39%
2009	12,909	(17.39%)		(4,020)	(1,055.17%)
2008	15,627	(0.55%)		(348)	(117.38%)

¹ Fair Value also includes investment categories classified as cash equivalents for financial statement purposes. Investments made with cash collateral received in the securities lending program are excluded.

South Carolina Retirement Systems Schedule of Investment Allocation¹

Fair Value of Investments as of June 30, 2017 (Dollar amounts in thousands)

FY 2016 FY 2017



¹Data provided in this chart is derived from the Statement of Fiduciary Net Position and for financial statement purposes, allocations are made based on the manager's style. Actual underlying holdings would result in a different allocation.

²Short-term investments with an original maturity of three months or less are classified as cash equivalents for financial statement purposes. The short-term total includes cash of \$408,463 (in thousands). Investments made with cash collateral received in the securities lending program are excluded.

³ For accounting purposes, derivatives such as futures, options and swaps are reflected in the asset class to which they pertain.

South Carolina Retirement System Summary of Fair Value of Investments¹

(Amounts expressed in thousands

			% of Fair
	Fair V	/alue	Value at
	06/30/2016	06/30/2017	06/30/17
Short-Term Investments	\$ 4,043,392	\$ 2,782,072	10.67%
Debt:			
Fixed Income	5,003,122	5,447,691	20.88%
Public Equity:			
Global Public Equity	6,161,285	8,470,968	32.48%
Global Tactical Asset Allocation	1,680,189	1,760,338	6.75%
Alternatives:			
Hedge Funds	2,680,626	2,585,196	9.91%
Private Debt	1,462,592	1,519,229	5.82%
Private Equity	2,262,653	1,979,153	7.59%
Real Estate	1,283,398	1,545,959	5.93%
Swaps - Commodities	(289)	(7,095)	-0.03%
Total Investments	\$ 24,576,968	\$ 26,083,511	100.00%

Police Officers Retirement System Summary of Fair Value of Investments¹

					% of Fair
		Fair \	/alue	e	Value at
	00	6/30/2016	0	6/30/2017	06/30/17
Short-Term Investments	\$	654,996	\$	462,913	10.72%
Debt:					
Fixed Income		805,119		901,724	20.87%
Public Equity:					
Global Public Equity		991,494		1,402,149	32.46%
Global Tactical Asset Allocation		270,382		291,378	6.75%
Alternatives:					
Hedge Funds		431,375		427,912	9.91%
Private Debt		235,365		251,469	5.82%
Private Equity		364,113		327,597	7.58%
Real Estate		206,528		255,893	5.92%
Swaps - Commodities		(46)		(1,174)	-0.03%
Total Investments	\$	3,959,326	\$	4,319,861	100.00%

¹Fair Value excludes investments made with cash collateral received in the securities lending program. Assets of the Systems are pooled for investment purposes; however, percentages vary slightly between systems due to cash flow differences, which primarily impact the short-term investment category.

General Assembly Retirement System Summary of Fair Value of Investments¹

(Amounts expressed in thousands)

					% of Fair
		Fair V	'alue		Value at
	06/	/30/2016	06/	30/2017	06/30/17
Short-Term Investments	\$	6,901	\$	5,220	16.21%
Debt:					
Fixed Income		5,834		6,306	19.59%
Public Equity:					
Global Public Equity		7,185		9,806	30.46%
Global Tactical Asset Allocation		1,959		2,037	6.33%
Alternatives:					
Hedge Funds		3,126		2,992	9.29%
Private Debt		1,706		1,759	5.46%
Private Equity		2,638		2,291	7.12%
Real Estate		1,497		1,789	5.56%
Swaps - Commodities		(1)		(8)	-0.02%
Total Investments	\$	30,845	\$	32,192	100.00%

Judges and Solicitors Retirement System Summary of Fair Value of Investments¹

		Fair \	/alue		% of Fair Value at
	06	/30/2016	06	/30/2017	06/30/17
Short-Term Investments	\$	25,229	\$	19,089	12.40%
Debt:					
Fixed Income		28,906		31,535	20.48%
Public Equity:					
Global Public Equity		35,597		49,037	31.85%
Global Tactical Asset Allocation		9,707		10,190	6.62%
Alternatives:					
Hedge Funds		15,488		14,965	9.72%
Private Debt		8,450		8,795	5.71%
Private Equity		13,073		11,457	7.44%
Real Estate		7,415		8,949	5.81%
Swaps - Commodities		(2)		(41)	-0.03%
Total Investments	\$	143,863	\$	153,976	100.00%

¹Fair Value excludes investments made with cash collateral received in the securities lending program. Assets of the Systems are pooled for investment purposes; however, percentages vary slightly between systems due to cash flow differences, which primarily impact the short-term investment category.

South Carolina National Guard Supplemental Retirement Plan Summary of Fair Value of Investments¹

		Fair \	/alue		% of Fair Value at
	06/	30/2016	06/	30/2017	06/30/17
Short-Term Investments	\$	5,804	\$	4,992	18.91%
Debt:					
Fixed Income		4,404		5,005	18.96%
Public Equity:					
Global Public Equity		5,424		7,782	29.48%
Global Tactical Asset Allocation		1,479		1,618	6.13%
Alternatives:					
Hedge Funds		2,360		2,375	8.99%
Private Debt		1,288		1,396	5.29%
Private Equity		1,992		1,818	6.88%
Real Estate		1,130		1,420	5.38%
Swaps - Commodities		(1)		(6)	-0.02%
Total Investments	\$	23,880	\$	26,400	100.00%

¹Fair Value excludes investments made with cash collateral received in the securities lending program. Assets of the Systems are pooled for investment purposes; however, percentages vary slightly between systems due to cash flow differences, which primarily impact the short-term investment category.

South Carolina Retirement Systems List of Largest Assets Held

As of June 30, 2017

<u>Units</u>	<u>Description</u>	<u>SCRS</u>	PORS	GARS	<u>JSRS</u>	SCNG		Fair Value
63,888,993	Blackrock MSCI World Index	\$ 1,011,251,562	\$ 167,386,429	\$ 1,170,576	\$ 5,853,919	\$ 929,065	\$	1,186,591,5
22,502,003	Daily MSCI USA Index NL Fund	624,343,393	103,343,832	722,709	3,614,190	573,601		732,597,7
5,032,702	MSCI EAFE Index NL Fund (FD12)	390,928,010	64,707,978	452,519	2,262,999	359,156		458,710,6
486,847	MSCI CAD Index NL Fund (CA-12)	36,678,994	6,071,255	42,458	212,327	33,698		43,038,7
		Total					\$:	2,420,938,6
Ten Equity	Holdings							
<u>Units</u>	<u>Description</u>	SCRS	<u>PORS</u>	GARS	<u>JSRS</u>	<u>SCNG</u>		Fair Value
386,815	Apple Inc	\$ 47,477,086	\$ 7,858,599	\$ 54,957	\$ •	\$ 43,619	\$	55,709,0
247,768	Simon Property Group Inc	34,156,574	5,653,734	39,538	197,725	31,381		40,078,9
79,937	Equinix Inc	29,236,477	4,839,339	33,843	169,244	26,860		34,305,7
232,596	American Tower Corp	26,229,239	4,341,569	30,362	151,835	24,098		30,777,1
499,291	Prologis Inc	24,952,017	4,130,158	28,883	144,442	22,924		29,278,4
219,919	Johnson & Johnson	24,794,065	4,104,013	28,700	143,528	22,779		29,093,0
2,137,125	National Grid PLC	22,517,802	3,727,237	26,066	130,351	20,688		26,422,1
136,040	AvalonBay Communities Inc	22,279,742	3,687,833	25,790	128,973	20,469		26,142,8
537,029	TransCanada Corp	21,785,918	3,606,093	25,218	126,114	20,015		25,563,3
				25.040	125,220	19,873		25 202 2
297,797	Vinci SA	21,631,547	3,580,541	25,040	125,220	19,073		25,382,2
297,797	Vinci SA	21,631,547 Total	3,580,541	25,040	125,220	19,673	\$	25,382,2 322,752,9
ŕ	Vinci SA ncome Holdings	, ,	3,580,541	25,040	123,220	13,873	\$	
ŕ		, ,	3,580,541 PORS	25,040 GARS	125,220 <u>JSRS</u>	19,873 <u>SCNG</u>	\$	322,752,9
Ten Fixed I	ncome Holdings	\$ Total	PORS	\$,	\$ <u>JSRS</u>	\$	\$	322,752,9
Ten Fixed I	ncome Holdings Description Commit to Purchase FNMA 3.50% due	\$ Total <u>SCRS</u>	PORS	\$ GARS	\$ <u>JSRS</u>	\$ SCNG		
Ten Fixed I Par Value 04,170,000	Description Commit to Purchase FNMA 3.50% due 08/01/2047 Commit to Purchase FNMA 4.00% due	\$ Total <u>SCRS</u> 91,026,641	PORS 15,067,096	\$ GARS 105,368	\$ JSRS 526,934	\$ SCNG 83,629		322,752,9 Fair Value 106,809,6
Ten Fixed I Par Value 04,170,000 65,030,000	Description Commit to Purchase FNMA 3.50% due 08/01/2047 Commit to Purchase FNMA 4.00% due 08/01/2047	\$ Total SCRS 91,026,641 58,162,322	PORS 15,067,096 9,627,262	\$ GARS 105,368 67,326	\$ JSRS 526,934 336,689	\$ SCNG 83,629 53,435		Fair Value 106,809,6 68,247,0
Ten Fixed I Par Value 04,170,000 65,030,000 61,000,000	Description Commit to Purchase FNMA 3.50% due 08/01/2047 Commit to Purchase FNMA 4.00% due 08/01/2047 US Treasury Bond 2.50% due 02/15/2045 Commit to Purchase FNMA 3.00% due	\$ Total SCRS 91,026,641 58,162,322 48,515,570	PORS 15,067,096 9,627,262 8,030,492	\$ GARS 105,368 67,326 56,159	\$ JSRS 526,934 336,689 280,846	\$ SCNG 83,629 53,435 44,573		Fair Value 106,809,6 68,247,0 56,927,6
Ten Fixed I Par Value 04,170,000 65,030,000 61,000,000 46,000,000	Description Commit to Purchase FNMA 3.50% due 08/01/2047 Commit to Purchase FNMA 4.00% due 08/01/2047 US Treasury Bond 2.50% due 02/15/2045 Commit to Purchase FNMA 3.00% due 08/01/2047	\$ SCRS 91,026,641 58,162,322 48,515,570 39,089,387	PORS 15,067,096 9,627,262 8,030,492 6,470,233	\$ GARS 105,368 67,326 56,159 45,248	\$ JSRS 526,934 336,689 280,846 226,280	\$ SCNG 83,629 53,435 44,573 35,912		Fair Value 106,809,6 68,247,0 56,927,6 45,867,0
Ten Fixed I Par Value 04,170,000 65,030,000 61,000,000 46,000,000 43,000,000	Description Commit to Purchase FNMA 3.50% due 08/01/2047 Commit to Purchase FNMA 4.00% due 08/01/2047 US Treasury Bond 2.50% due 02/15/2045 Commit to Purchase FNMA 3.00% due 08/01/2047 US Treasury Note 1.00% due 10/15/2019 Federal Farm Credit Bank 1.17% due	\$ Total SCRS 91,026,641 58,162,322 48,515,570 39,089,387 36,299,681	PORS 15,067,096 9,627,262 8,030,492 6,470,233 6,008,469	\$ GARS 105,368 67,326 56,159 45,248 42,019	\$ JSRS 526,934 336,689 280,846 226,280 210,131	\$ SCNG 83,629 53,435 44,573 35,912 33,350		Fair Value 106,809,6 68,247,6 56,927,6 45,867,6 42,593,6
Ten Fixed I Par Value 04,170,000 65,030,000 61,000,000 46,000,000 43,000,000 35,000,000	Description Commit to Purchase FNMA 3.50% due 08/01/2047 Commit to Purchase FNMA 4.00% due 08/01/2047 US Treasury Bond 2.50% due 02/15/2045 Commit to Purchase FNMA 3.00% due 08/01/2047 US Treasury Note 1.00% due 10/15/2019 Federal Farm Credit Bank 1.17% due 05/16/2019 Commit to Purchase FNMA 3.00% due	\$ Total SCRS 91,026,641 58,162,322 48,515,570 39,089,387 36,299,681 29,664,670	PORS 15,067,096 9,627,262 8,030,492 6,470,233 6,008,469 4,910,216	\$ GARS 105,368 67,326 56,159 45,248 42,019 34,338	\$ JSRS 526,934 336,689 280,846 226,280 210,131 171,722	\$ SCNG 83,629 53,435 44,573 35,912 33,350 27,254		Fair Value 106,809,0 68,247,0 56,927,0 45,867,0 42,593,0 34,808,3
Ten Fixed I Par Value 04,170,000 65,030,000 61,000,000 46,000,000 43,000,000 35,000,000	Description Commit to Purchase FNMA 3.50% due 08/01/2047 Commit to Purchase FNMA 4.00% due 08/01/2047 US Treasury Bond 2.50% due 02/15/2045 Commit to Purchase FNMA 3.00% due 08/01/2047 US Treasury Note 1.00% due 10/15/2019 Federal Farm Credit Bank 1.17% due 05/16/2019 Commit to Purchase FNMA 3.00% due 09/01/2047 Commit to Purchase FNMA 4.50% due	\$ SCRS 91,026,641 58,162,322 48,515,570 39,089,387 36,299,681 29,664,670 27,995,702	PORS 15,067,096 9,627,262 8,030,492 6,470,233 6,008,469 4,910,216 4,633,961	\$ GARS 105,368 67,326 56,159 45,248 42,019 34,338 32,406	\$ JSRS 526,934 336,689 280,846 226,280 210,131 171,722 162,061	\$ SCNG 83,629 53,435 44,573 35,912 33,350 27,254 25,720		56,927,0 45,867,0 42,593,0 32,849,8

 $Note: A\ complete\ list\ of\ portfolio\ holdings\ is\ available\ upon\ request.$

Total

\$ 472,028,130

South Carolina Retirement Systems Schedule of Investment Results Combined Investment Portfolio

Schedule of Investments	FYE 2017	3 Years	5 Years
South Carolina Plan Return (Net of Fees) ¹	11.88%	4.23%	7.50%
South Carolina Policy Benchmark ²	11.82%	4.49%	7.11%
Global Public Equity ³	18.86%	4.79%	10.76%
Global Public Equity Blend ⁴	19.01%	4.89%	10.58%
Equity Options	11.49%	N/A	N/A
CBOE S&P 500 BuyWrite Index (BXM)	12.06%	N/A	N/A
Private Equity ³	15.17%	9.41%	13.15%
80% Russell 3000 / 20% MSCI EAFE + 300 Bps on a 3-month lag	19.84%	10.90%	14.74%
GTAA ³	7.36%	1.78%	4.92%
GTAA Blend ⁴	8.61%	2.90%	5.99%
Other Opportunistic ³	-5.05%	N/A	N/A
50% MSCI World / 50% Barclays Aggregate Bond Index	8.61%	N/A	N/A
Hedge Funds (Non-PA)	8.54%	N/A	N/A
50% MSCI World / 50% Barclays Aggregate Bond Index	8.61%	N/A	N/A
Core Fixed Income ³	-0.31%	2.23%	2.25%
Barclays US Aggregate Bond Index	-0.31%	2.48%	2.21%
Cash and Short Duration (Net) ⁵	0.49%	0.23%	0.17%
Merrill Lynch 3-Month T-Bill	0.49%	0.23%	0.17%
Mixed Credit	10.50%	1.81%	4.87%
Mixed Credit Blend ⁴	10.04%	4.48%	5.17%
Private Debt	10.01%	4.45%	8.74%
S&P/LSTA Leveraged Loan + 150 Bps on a 3-month lag	11.22%	5.07%	6.08%
Emerging Markets Debt ³	8.45%	2.48%	3.14%
50% JPM EMBI GD USD / 50% JPM GBIEM GD Local	6.26%	1.28%	2.54%
Private Real Estate ³	8.22%	13.48%	15.57%
NCREIF ODCE + 75 Bps	9.09%	12.54%	12.73%
Public Real Estate	-2.60%	N/A	N/A
FTSE NAREIT Equity REITs Index	-1.70%	N/A	N/A
World Infrastructure	4.52%	N/A	N/A
Dow Jones Brookfield Global Infrastructure Net Index	8.00%	N/A	N/A
Ported Cash ^{5,6}	0.49%	N/A	N/A
3 Month LIBOR	0.97%	N/A	N/A
Ported Short Duration ⁶	1.59%	N/A	N/A
3 Month LIBOR	0.97%	N/A	N/A
Portable Alpha Hedge Funds ⁶	7.37%	N/A	N/A
3 Month LIBOR	0.97%	N/A	N/A

¹ Plan returns are from BNY Mellon and are time-weighted, total return calculations, net of fees and expenses. All returns are expressed in U.S. Dollars. Periods greater than one year are annualized.

² The South Carolina Policy Benchmark is set annually by the RSIC and has changed over time. The presented returns are a blend of these past policies.

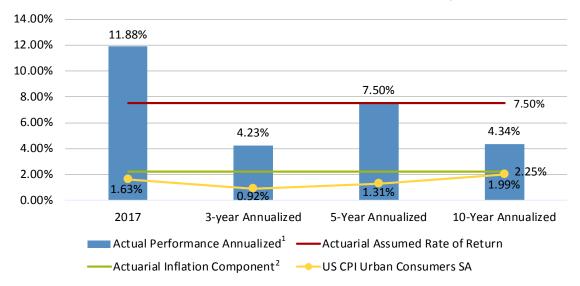
³ Returns generated from synthetic exposure through the Overlay Program are blended into the asset class segment returns.

⁴ The asset class benchmark has changed over time. The presented returns are a blend of these past benchmarks.

⁵ Cash returns are estimated using the Merrill Lynch 3-Month T-Bill.

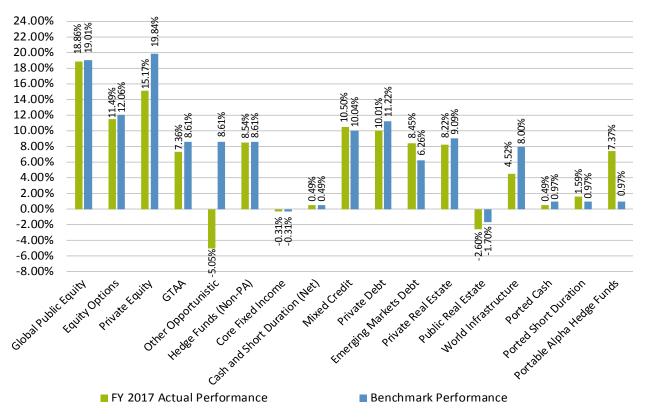
⁶ Collateral held to support the overlay program represents opportunity cost associated with financing the overlay program. The Overlay collateral consists of Ported Cash, Ported Short Duration, and Portable Alpha Hedge Funds. The cost of holding these assets is proxied using 3 Month LIBOR. This benchmark is not a component of the Policy benchmark.

South Carolina Retirement Systems Investment Performance Summary



¹Plan returns are from BNY Mellon and are time-weighted, total return calculations, net of fees and expenses. All returns are expressed in U.S. Dollars. Periods greater than one year are annualized.

Fiscal Year 2017 Investment Performance by Market Segment



²The actuarial assumed rate of return was 7.50 percent for years July 1, 2011 – June 30, 2017. The rate was composed of a 2.75 percent Inflation rate and a 4.75 percent real rate of return, net of investment and administrative expenses through 2016 and the components changed to a 2.25 percent inflation rate and a 5.25 percent real rate of return for fiscal year 2017.

South Carolina Retirement Systems Schedule of Investment Fees and Commissions

For the Year Ended June 30, 2017

Investment Managers' Fees

Other Investment Service Fees

Bank Fees and Investment Expenses³

Un	r Value of Assets der Management t June 30, 2017 ¹		Reported Fees ²
\$	30,615,940,260	-	\$ 302,904,488
			11,687,450

\$ 314,591,938

	Number of Shares		Average Commissions
Brokerage Firm	Traded	Commissions ⁴	per Share
Goldman Sachs & Co.	33,838,457	\$ 1,937,028	0.0572
Deutsche Bank Securities Inc.	27,422,595	319,742	0.0117
Instinet Europe	73,963,712	274,370	0.0037
Morgan Stanley & Co., Inc.	38,872,698	246,560	0.0063
Merrill Lynch Pierce Fenner Smith Inc.	8,821,845	206,642	0.0234
Credit Suisse	75,148,048	173,498	0.0023
Pershing LLC	4,446,498	155,336	0.0349
J.P. Morgan Clearing Corp.	6,157,135	148,149	0.0241
UBS Securities LLC	3,803,178	115,769	0.0304
National Financial Services Corp.	3,443,432	110,181	0.0320
Citigroup Global Markets Inc.	3,070,762	109,770	0.0358
Stifel Nicolaus	2,698,340	96,843	0.0359
ITG Inc.	6,531,192	92,934	0.0142
Instinet Corp. NY	4,447,248	78,525	0.0177
J.P. Morgan Securities Ltd. London	8,088,662	73,801	0.0091
UBS Warburg London	8,305,088	66,015	0.0080
Barclays Capital Inc.	1,692,699	58,603	0.0346
RBC Capital Markets LLC	2,647,602	58,413	0.0221
Jefferies & Co., Inc.	1,856,321	57,189	0.0308
Wells Fargo Securities LLC	1,493,480	53,052	0.0355
UBS Warburg Asia Ltd.	7,769,986	51,539	0.0066
All Others ⁵	1,038,773,309	1,036,727	0.0010
	1,363,292,287	\$ 5,520,686	0.0040

¹Assets under management include categories classified as cash and cash equivalents for financial statement purposes.

² A portion of investment expenses are directly invoiced by the manager; however, a significant number of investment managers provide account valuations on a net of fee basis. The RSIC makes a good faith attempt to account for fees that are not necessarily readily separable. Conifer Financial Services, administrator for the RSIC, provides support to the RSIC for the collection, aggregation and reasonability testing so that the RSIC can provide the Retirement Division of PEBA with investment fees and expenses that would not be disclosed otherwise. These amounts include management fees, performance fees (carried interest) and other expenses such as organizational expenses in limited partnership structures.

³ Includes miscellaneous investment expenses, commissions on futures, bank fees and RSIC administrative expenses.

⁴ Commissions paid to brokers are considered a part of the investment asset cost and are therefore not reported as expenses of the System.

 $^{^{5}}$ All others include 144 additional brokers each receiving less that \$50,000 in total commissions.

For the Year Ended June 30, 2017

(Amounts expressed in thousands)

Manager Fees Deducted on a Net of Fee Basis²

						COLLEC BUSIS				
Style	Investment Manager	Ass Ma	r Value of ets Under nagement 5/30/2017 ¹	Manager Fees Directly Invoiced	Management Fees	Performance Fees		ther ees	Inve M	Total estment anager Fees
Short	Duration:	_					_		_	
	Apollo Partnership Short Duration	\$	239,714		\$ 391		\$	474	\$	865
<u>.</u> . ,	Penn Limited Term HY		229,761	1,589						1,589
	Income:									
Core	Fixed Income		(4)							
	Blackrock Financial Management, Inc.		(1)							
	Loomis Sayles Securitized		262,631	483						483
	Loomis Sayles Investment Grade Credit		285,220	580						580
	Pacific Investment Management Co. ³		1,302,467	2,528						2,528
Mixe	ed Credit									
	Apollo Partnership Mixed Credit							52		52
	Barings		265,575	588						588
	Caspian SC Holdings LP ⁴		236,396		1,010	1,517				2,527
	Goldentree Structured Credit		387,552	2,163						2,163
	GSO Partnership Mixed Credit		7,882							
	Guggenheim		638,103	2,415						2,415
	Loomis Sayles HY			403						403
	Pinebridge		503,481	1,728						1,728
Eme	rging Market Debt									
	Ashmore External Debt		301,796	1,302						1,302
	Goldman Sachs Partnership Emerging Market Debt		225,697		1,143					1,143
	GMO Emerging Country Debt		330,503		1,533					1,533
	Mondrian Investment Group, Inc.		237,881	1,136						1,136
	Russell EMD Transition Local		1							
	Wellington Emerging Local Debt		451,161	1,690						1,690
Globa	al Public Equity		,	,						•
	Aberdeen		274,807	1,991						1,991
	Algert		160,667	185						185
	AQR		802,775	1,773						1,773
	AQR Options		762,009	2,424						2,424
	Blackrock Global Equity		1,186,592	264						264
	D. E. Shaw World Enhanced		803,216	2,617						2,617
	Intech		818,294	1,549						1,549
	Integrity Small V		336,199	1,846						1,846
	Johnston Fund		191	1,040						1,040
	Lighthouse Partnership Developed International Equity		520,864		2,692			271		2,963
			415,227		2,092			282		
	LSV Asset Management Numeric Investors			1.45	2,720			202		3,008
			153,853	145				(11)		145
	Pyramis Small C		332,180	1,900				(14)		1,886
	Russell Options		810,317	1,228						1,228
	Russell Developed International Equity		150,108							
	Russell Global Equity Transition		4,713							

For the Year Ended June 30, 2017

(Amounts expressed in thousands)

Manager Fees Deducted on a Net of Fee Basis²

				Ne	t of Fee Basis ²		•	
		Fair Value of	Manager				Total	
		Assets Under	Fees				Investment	
		Management	Directly	Management	Performance	Other	Manager	
Style	Investment Manager	at 6/30/2017 ¹	Invoiced	Fees	Fees	Fees	Fees	
	Russell Large Cap Transition	393,942						
	Schroders	284,637	1,893				1,893	
	State Street Global Equity	1,234,347	164				164	
	TimesSquare SMID G	431,724	3,199				3,199	
	William Blair	335,033	1,763				1,763	
Globa	l Tactical Asset Allocation							
	Bridgewater Associates, Inc.	1,070,145		3,026		388	3,414	
	Entrust Partnership Global Tactical Asset Allocation	210,843		-,-			-,	
	Grantham, Mayo, Van Otterloo & Co. LLC	784,573	4,421	2,267			6,688	
Infras	tructure	701,373	.,	2,207			0,000	
	Deutsche Infrastructure	421,650	1,489				1,489	
Alter	natives:	,	2, .03				2, .03	
	ge Funds (Portable Alpha and Non-Portable Alpha)							
	Apollo Partnership Hedge Funds	614				17	17	
	Blackstone SAF II	92,606		889		125	1,014	
	Bridgewater Associates, Inc.	432,220		10,342		426	10,768	
	Bridgewater Associates, Inc.	104,418		2,369	863	110	3,342	
	DE Shaw Composite Fund	462,716		11,160	8,562	110	19,722	
	GAM PA	6,885		11,100	3,302	6	6	
	Goldman Sachs Partnership Hedge Funds	34,085		249		172	421	
	Grosvenor Partnership Hedge Funds	135,441		1,177	883	280	2,340	
	GSO Partnership Hedge Funds	86,038		1,223	333	393	1,616	
	Lighthouse Partnership Hedge Funds	1,328,984		16,176	6,227	3,893	26,296	
	Morgan Stanley Partnership Hedge Funds	75,162		480	880	202	1,562	
	Reservoir Strategic Partners Fund L.P.	37,877		520	000	143	663	
Priv	ate Debt	37,077		320		1.5	003	
	Angelo Gordon VI	1,419		67	230	24	321	
	Apollo Partnership Private Debt	297,591		1,251	4,428	1,536	7,215	
	Avenue Europe I (Parallel II)	237,331		1,231	(4)	30	26	
	Avenue Europe II	26,861		208	(18)	125	315	
	Avenue Spec VI	21,226		191	(10)	177	368	
	Crescent Mezz V	12,723		211	174	1,,	385	
	Crescent Mezz VI	62,395		766	(38)	214	942	
	DE Shaw Direct Capital	17,922		130	(30)		130	
	Gateway Energy	15,800		10	5	363	378	
	Goldman Sachs Mezz V	5,816		103	191	303	294	
	Goldman Sachs Partnership Private Debt	74,214		800	3,309	4,619	8,728	
	Golub PEARLS	41,264		633	3,303	880	1,516	
	GSO Partnership Private Debt	720,030		5,371	3,303	2,723	11,397	
	Highbridge Sandlapper Credit	96,838		393	542	1,020	1,955	
	KKR Lending Partners II			333				
	•	106,273		4.046	1,845	575	2,420	
	KKR Special Situations Fund II	46,592		1,016		705	1,721	
	Morgan Stanley Partnership Private Debt	18,373		280	(678)	131	(267)	
	Northstar Mezz V	17,382		325	(184)	24	165	
	Sankaty COP IV	24,694		584	691	51	1,326	

For the Year Ended June 30, 2017

(Amounts expressed in thousands)

Manager Fees Deducted on a Net of Fee Basis²

SIC Direct Lending 1	
Selene I 248 (5) 118 Selene II 65,283 582 1,149 735 2,3 SJC Direct Lending II 23,813 288 408 56 WL Ross - WLR Whole Loans 15,181 184 (1,028) 151 16 WL Ross Partnership Private Debt 28,189 71 184 (1,028) 151 16 Advent International GPE VII 48,621 377 3,180 131 3, Apax Europe VIII 71,617 662 1,960 130 2 Apollo Partnership Private Equity 406,062 6,350 10,526 3,434 20 Aquiline Financial Services II 87,580 1,211 (5,813) (4 Azalea IV 6,769 265 5 BC European Cap IX 30,624 284 1,980 11 2 Bridgepoint Europe IV 35,292 292 157 Bridgepoint Europe V 38,434 1,067 479 1 Brookfield Capital IV 43,223 1,884 1,555 910 4 <tr< th=""><th>ager</th></tr<>	ager
Selene II	249
SIC Direct Lending 1	113
SIC Direct Lending 1	2,466
WL Ross - WLR Whole Loans 15,181 184 (1,028) 151 151 WL Ross Partnership Private Debt 28,189 Private Equity Advent International GPE VII 48,621 377 3,180 131 3,33 Apax Europe VIII 71,617 662 1,960 130 2,2 Apollo Partnership Private Equity 406,062 6,350 10,526 3,434 20, Aquiline Financial Services II 87,580 1,211 (5,813) (4,4) Azalea IV 6,769 265 5 BC European Cap IX 30,624 284 1,980 11 2,5 Bridgepoint Europe IV 35,292 292 157 157 Bridgepoint Europe V 38,434 1,067 479 1,6 Brookfield Capital IV 43,223 1,884 1,555 910 4,6 Carousel Capital III 270 (83) 403 403 3,635 82 3,635 82 3,635 82 3,635 82 3,635 82 3,635 82 3,635 82	752
WL Ross Partnership Private Debt 28,189 Private Equity Advent International GPE VII 48,621 377 3,180 131 3,3 Apax Europe VIII 71,617 662 1,960 130 2,2 Apollo Partnership Private Equity 406,062 6,350 10,526 3,434 20,4 Aquiline Financial Services II 87,580 1,211 (5,813) (4,842) Azalea IV 6,769 265 5 BC European Cap IX 30,624 284 1,980 11 2,832 Bridgepoint Europe IV 35,292 292 157	(693)
Private Equity Advent International GPE VII 48,621 377 3,180 131 3,180 131 3,180 131 3,180 131 3,180 131 3,180 131 3,180 131 3,180 131 3,180 130 2,21 2,22 1,260 130 2,22 3,434 2,00 4,42 2,00 1,211 (5,813) 1,05 3,434 2,00 4,42 2,42 1,121 (5,813) 1,05 4,42 2,42 1,121 (5,813) 1,05 4,42 2,42 1,121 (5,813) 1,05 4,42 2,42	(093)
Advent International GPE VII 48,621 377 3,180 131 3, Apax Europe VIII 71,617 662 1,960 130 2, Apollo Partnership Private Equity 406,062 6,350 10,526 3,434 20, Aquiline Financial Services II 87,580 1,211 (5,813) (4, Azalea IV 6,769 265 BC European Cap IX 30,624 284 1,980 11 2, Bridgepoint Europe IV 35,292 292 157 Bridgepoint Europe V 38,434 1,067 479 1, Brookfield Capital IV 43,223 1,884 1,555 910 4, Carousel Capital III 270 (83) 403 Carousel Capital IV 23,518 178 3,331 3, CD&R VIII 46,847 3,635 82 3, Crestview II 89,216 776 12,024 231 13, Crestview III 23,082 1,196 134 1, Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	
Apax Europe VIII 71,617 662 1,960 130 2 Apollo Partnership Private Equity 406,062 6,350 10,526 3,434 20 Aquiline Financial Services II 87,580 1,211 (5,813) (4 Azalea IV 6,769 265 265 BC European Cap IX 30,624 284 1,980 11 2 Bridgepoint Europe IV 35,292 292 157 157 Brokfield Capital IV 43,223 1,884 1,555 910 4 Carousel Capital III 270 (83) 403 3 Carousel Capital IV 23,518 178 3,331 3 CD&R VIII 46,847 3,635 82 3 Crestview II 89,216 776 12,024 231 13 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	3,688
Apollo Partnership Private Equity 406,062 6,350 10,526 3,434 20 Aquiline Financial Services II 87,580 1,211 (5,813) (4 Azalea IV 6,769 265 5 BC European Cap IX 30,624 284 1,980 11 2 Bridgepoint Europe IV 35,292 292 157 157 Bridgepoint Europe V 38,434 1,067 479 1 Brookfield Capital IV 43,223 1,884 1,555 910 4 Carousel Capital III 270 (83) 403 3 3 Carousel Capital IV 23,518 178 3,331 3 CD&R VIII 46,847 3,635 82 3 Crestview II 89,216 776 12,024 231 13 Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	2,752
Aquiline Financial Services II 87,580 1,211 (5,813) (4,4) Azalea IV 6,769 265 265 BC European Cap IX 30,624 284 1,980 11 2 Bridgepoint Europe IV 35,292 292 157 Brookfield Capital IV 43,223 1,884 1,555 910 4 Carousel Capital III 270 (83) 403 4 Carousel Capital IV 23,518 178 3,331 3 CD&R VIII 46,847 3,635 82 3 Crestview II 89,216 776 12,024 231 13 Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693),310
Azalea IV 6,769 265 BC European Cap IX 30,624 284 1,980 11 2, Bridgepoint Europe IV 35,292 292 157 Bridgepoint Europe V 38,434 1,067 479 1, Brookfield Capital IV 43,223 1,884 1,555 910 4, Carousel Capital III 270 (83) 403 Carousel Capital IV 23,518 178 3,331 3, CD&R VIII 46,847 3,635 82 3, Crestview II 89,216 776 12,024 231 13, Crestview III 23,082 1,196 134 1, Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	1,602)
BC European Cap IX 30,624 284 1,980 11 2 Bridgepoint Europe IV 35,292 292 157 Bridgepoint Europe V 38,434 1,067 479 1 Brookfield Capital IV 43,223 1,884 1,555 910 4 Carousel Capital III 270 (83) 403 3 Carousel Capital IV 23,518 178 3,331 3 CD&R VIII 46,847 3,635 82 3 Crestview II 89,216 776 12,024 231 13 Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	265
Bridgepoint Europe IV 35,292 292 157 Bridgepoint Europe V 38,434 1,067 479 1 Brookfield Capital IV 43,223 1,884 1,555 910 4 Carousel Capital III 270 (83) 403 3 Carousel Capital IV 23,518 178 3,331 3 CD&R VIII 46,847 3,635 82 3 Crestview II 89,216 776 12,024 231 13 Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	2,275
Bridgepoint Europe V 38,434 1,067 479 1 Brookfield Capital IV 43,223 1,884 1,555 910 4 Carousel Capital III 270 (83) 403 Carousel Capital IV 23,518 178 3,331 3 CD&R VIII 46,847 3,635 82 3 Crestview II 89,216 776 12,024 231 13 Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	449
Brookfield Capital IV 43,223 1,884 1,555 910 4 Carousel Capital III 270 (83) 403 Carousel Capital IV 23,518 178 3,331 3 CD&R VIII 46,847 3,635 82 3 Crestview II 89,216 776 12,024 231 13 Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	L,546
Carousel Capital III 270 (83) 403 Carousel Capital IV 23,518 178 3,331 3 CD&R VIII 46,847 3,635 82 3 Crestview II 89,216 776 12,024 231 13 Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	1,349
Carousel Capital IV 23,518 178 3,331 3,035 3,035 3,035 3,035 3,035 3,035 3,035 3,035 3,035 3,035 3,035 3,035 1,002 23,035 1,196 1,196 1,194 1,194 1,194 1,196<	320
CD&R VIII 46,847 3,635 82 3 Crestview II 89,216 776 12,024 231 13 Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	3,509
Crestview II 89,216 776 12,024 231 13 Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	3,717
Crestview III 23,082 1,196 134 1 Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	3,031
Goldman Sachs Partnership Private Equity 31,860 503 350 109 Green Equity 42,361 (12) 693	L,330
Green Equity 42,361 (12) 693	962
	681
111445 1 14 15 17 17 17 17 17 17 17 17 17 17 17 17 17	(179)
Industry Ventures VI 25,750 258 331	589
·	L ,2 35
	(324)
Lexington Middle Market II 26,401 222 492 49	763
Morgan Stanley Partnership Private Equity 231,658 1,806 (4,177) 297 (2	2,074)
Neuberger Berman 12,757 131 142 53	326
Oaktree EOF III 43,361 522 1,527 234 2	2,283
Pacific Equity Partners V 32,152 1,528 169 1	L,697
Pantheon Europe V 25,425 414 386 46	846
Pantheon USA VII 79,353 815 709 91 1	L,615
Paul Capital IX 24,039 672 8	680
Reservoir Capital Partners (Cayman) L.P. 54,915 367 3,683 33 4,	1,083
Square 1 Venture 1 27,634 291 4 73	368
Truebridge Capital I 45,225 214 175 54	443
Truebridge Capital II 72,840 554 130 84	768
Warburg Pincus X 53,538 290 2,032 260 2,	2,582
Warburg Pincus XI 52,828 439 1,714 303 2,	2,456
	,306
WL Ross Partnership Private Equity 223,925 373 1,085 116 1	L,574
Various Private Equity Managers ⁵ 123,702 691 351 96 1	L,138

For the Year Ended June 30, 2017

(Amounts expressed in thousands)

Manager Fees Deducted on a Net of Fee Basis²

		Net of Fee Basis ²					
		Fair Value of	Manager				Total
		Assets Under	Fees				Investment
		Management	Directly	Management	Performance	Other	Manager
Style	Investment Manager	at 6/30/2017 ¹	Invoiced	Fees	Fees	Fees	Fees
Real E	estate						
	American Timberlands Fund	29,733		254	(11)		243
	Apollo Partnership Real Estate	45,208		385	1,906	482	2,773
	Blackstone Property Partners	348,889		2,818	3,104		5,922
	Blackstone Real Estate Partners VII	122,950		1,451	2,510	62	4,023
	Brookfield REF III	6,410		88			88
	Brookfield REF IV	29,143		431		13	444
	Brookfield SREP LP	91,032		825	5,005		5,830
	Brookfield SREP II LP	45,598		1,044	806		1,850
	Carlyle VI	37,301		365	(5,401)		(5,036)
	CenterSquare ⁶	380,769	1,418				1,418
	Crowe VII	74,739	,	1,250			1,250
	Goldman Sachs Partnership Real Estate	937		47	104	92	243
	Greystar VII	141			(356)		(356)
	Greystar IX	53,600		2,289	()	14	2,303
	Lone Star II	7,874		20	(280)		(260)
	Morgan Stanley Partnership Real Estate	55,683		644	1,362	296	2,302
	Morgan Stanley Prime Property	429,137		2,806	896		3,702
	Oaktree ROF V	22,498		303	151	228	682
	Oaktree ROF VI	65,035		929	(251)	235	913
	Och-Ziff II	27,494	325		(8)	191	508
	Pembrook Capital Management - PCI Investors Fund II	5,888		48	40	574	662
	TA Realty X	64,976		1,488	907		2,395
	TA Realty Fund of One	74,318		666	469		1,135
	Torchlight III	11,661		166	422	(100)	488
	Torchlight IV	71,655		707	3,376	492	4,575
	Torchlight V	39,201		1,200	1,112	172	2,484
	U. S. REIF	8,541		_,	_,		_,
	WL Ross Partnership Real Estate	44,370		647		314	961
Strata	egic Partnerships ⁷	,575		0.,		01.	301
Strate	Apollo	83,524					
	Entrust	65,524 19,477		1,084	(945)	1,063	1,202
	Goldman Sachs	•		385	(945)	1,400	1,785
		45,100		303			
	Grosvenor GSO	13,220				90	90
	Lighthouse	5,222 12,057		2 012		2 100	E 003
	_	12,957		3,813		2,180	5,993
	Morgan Stanley	22,595		31		535	566 653
Dota 1	WL Ross	36,036		1,152		(500)	652
вета (Overlay	054.025	1 111				4 44 4
	Russell Investment Group	854,937	1,114				1,114

For the Year Ended June 30, 2017

(Amounts expressed in thousands)

					Manager Fees Deducted on a Net of Fee Basis ²						
Style	Investment Manager	Fair Value of Assets Under Management at 6/30/2017 ¹	Manager Fees Directly Invoiced		nagement Fees		ormance Fees	Other Fees	Tota Investm Manag Fees	nent ger	
Interr	nally Managed Assets										
	Core Fixed Income	37,335									
	Short Duration	815,910									
	SCRS Liquidity	442,300									
	Cash Accounts	485,993									
	Total Fair Value of Assets and Manager Fees	\$ 30,576,627	\$ 48,313	\$	126,454	\$	90,762	\$37,375	\$ 302,	904	
	Adjustments, Cash, Receivables and Payables	(474,520)									
	Net Asset Value as reported by the Custodial Bank	\$ 30,102,107									

¹The "Fair Value" of assets under management includes categories classified as cash equivalents for financial statement purposes and excludes cash, receivables and payables; therefore, these adjustments are necessary to reconcile to "Net Asset Values" reported by the Custodial Bank and the Retirement System Investment Commission.

²Investment manager fees, whether directly invoiced (\$48,312,847) or deducted from the fund on a net basis (\$254,591,639) are classified and reported as Investment Expense. The RSIC makes a good faith attempt to account for fees that are not necessarily readily separable. Conifer Financial Services, administrator for the RSIC, provides support to the RSIC for the collection, aggregation and reasonability testing so that the RSIC can provide the Retirement Division of PEBA with investment fees and expenses that would not be disclosed otherwise. These amounts include management fees, performance fees (carried interest) and other expenses such as organizational expenses in limited partnership structures.

³Includes performance fee of \$999,388 which was directly invoiced.

⁴This hedge fund is classified as a Mixed Credit mandate for investment purposes by RSIC due to it having higher factor or beta exposures to the asset class; however, for financial statement purposes it is classified as Hedge Funds.

⁵Represents the aggregation of four managers, each with total investment manager fees of less than \$250,000, and one manager that has a non-disclosure agreement.

⁶This fund is classified as a Real Estate mandate for investment purposes by the RSIC; however this fund is held in custody at BNY Mellon and, for financial statement purposes, reported as Global Public Equity.

⁷Represents management and other fees at the Strategic Partnership level, and not fees at the underlying investment level which are included in each applicable asset class. Fair Value represents cash balances at the Strategic Partnership level.

Actuarial Section





Gabriel Roeder Smith & Company Consultants & Actuaries

5605 N. MacArthur Blvd. Suite 870 Irving, TX 75038-2631 469.524.0000 phone 469.524.0003 fax www.gabrielroeder.com

April 21, 2017

South Carolina Public Employee Benefit Authority South Carolina Retirement Systems P.O. Box 11960 Columbia, SC 29211-1960

Subject: Statement of Certification for the Actuarial Valuation as of July 1, 2016

Dear Members of the Board:

Actuarial valuations are prepared annually as of July 1, the first day of the plan year, for each of the five retirement systems (i.e. the South Carolina Retirement System, the Police Officers Retirement System, the Judges and Solicitors Retirement System, the General Assembly Retirement System, and the South Carolina National Guard Supplemental Retirement Plan). These reports describe the current actuarial condition of the South Carolina Retirement Systems and document the calculated employer contribution rates as well as the changes in these contribution rates.

FINANCING OBJECTIVES AND FUNDING POLICY

The employer and member contribution rates for the South Carolina Retirement System and the Police Officers Retirement System are determined in accordance with South Carolina Code. As specified by the Code, in the event the scheduled employer and member contribution rates are insufficient to maintain a thirty-year amortization period for financing the unfunded liability of the System (determined on an actuarial value of asset basis), the South Carolina Public Employee Benefit Authority (the Board) shall increase the employer and member contribution rates in equal amounts as necessary to maintain a funding period that does not exceed thirty years. The Statutes also allow the Board to increase the member and employer contribution rate by up to 50 basis points in a year, even if the funding period is less than 30 years. For administration purposes, the contribution rate determined by a given actuarial valuation historically became effective twenty-four months after the valuation date. However, the Board has the authority to make the contribution rates effective twelve months after the valuation date.

The Board also certifies the employer contribution rates annually for the Judges and Solicitors Retirement System, the General Assembly Retirement System, and the South Carolina National Guard Supplemental Retirement Plan. The Board's principle objectives to determine the appropriate funding requirements for these systems include:

- Establish a contribution rate that remains relatively level over time.
- To set rates so that the measures of the System's funding progress, which include the unfunded actuarial accrued liability, funded ratio, and funding period, will be maintained or improved.

South Carolina Public Employee Benefit Authority April 21, 2017 Page 2

To set a contribution rate that will result in the unfunded actuarial accrued liability (UAAL), which
is the actuarial accrued liability less the actuarial value of assets, to be amortized over a period
from the current valuation date that does not exceed 30 years.

To accomplish this, the employer contribution rate will be at least equal to the sum of the employer normal cost rate (which pays the current year's cost) and an amortization rate which results in the UAAL being funded over a period that does not exceed 30 years in installments. These installments increase at the assumed rate of growth in payroll for each System.

If new legislation is enacted between the valuation date and the date the contribution rates become effective, the Board may adjust the calculated rates before certifying them, in order to reflect this new legislation. Such adjustments are based on information supplied by the actuary.

PROGRESS TOWARD REALIZATION OF FINANCING OBJECTIVES

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) is a standard measure of a plan's funded status. In the absence of benefit improvements, assumption changes, or investment losses, it should increase over time, until it reaches at least 100%. For all systems on a combined basis, the funded ratio decreased from 62.8% in 2015 to 60.3% in 2016.

ASSUMPTIONS AND METHODS

The Board, in consultation with the actuary, sets the actuarial assumptions and methods used in the valuation. South Carolina State Code requires the Board to have the actuary perform an experience study at least every five years. The July 1, 2016 actuarial valuations were based on updated actuarial assumptions based on experience for the five-year period ending July 1, 2015. The experience study report, which included recommended assumption changes, was provided to the Board in 2016. The following is a summary of the assumptions that were recommended by PEBA's actuary and adopted by the Board for use in preparing this actuarial valuation:

- Decrease the price inflation assumption from 2.75% to 2.25%.
- Decrease in the assumed rate of salary increases for individual members.
- Decrease the payroll growth assumption from 3.50% to 3.00%.
- Adopt new post-retirement mortality tables specific to South Carolina retiree experience. Mortality for retirees is assumed to improve based on generational projection Scale AA.
- Minor adjustments to the pre-retirement mortality assumption.
- Modify the rates of disability, withdrawal, and retirement for certain employee types.
- Modify the asset method such that each year's investment gain or loss (determined on a market value of asset basis) is recognized over a closed five-year period at the rate of 20% per year.

Gabriel Roeder Smith & Company

South Carolina Public Employee Benefit Authority April 21, 2017 Page 3

The investment return assumption is a prescribed assumption in Section 9-16-335 in South Carolina State Code and is a 7.50% investment return assumption.

All the assumptions and methods adopted by the Board satisfy the requirements in the Actuarial Standards of Practice that are applicable for actuarial valuations of public retirement systems. The Board plans to have the next experience study conducted using the plan's experience for the five-year period ending June 30, 2019. The actuarial assumptions that result from that experience study will be first used to prepare the July 1, 2020 actuarial valuation.

It is our opinion that the actuarial assumptions used to perform this valuation are internally consistent and reasonably reflect the anticipated future experience of the System. The results of the actuarial valuation are dependent on the actuarial assumptions used. Actual results can, and almost certainly will, differ as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution rate, and funding periods. The actuarial calculations are intended to provide information for rational decision making.

The benefit structure is outlined in this section of the annual report. GRS prepared the following schedules in the actuarial section: Actuarial Balance Sheet, Results of the Valuation as of July 1, 2016, Summary of Actuarial Assumptions and Methods, Development of the Actuarial Value of Assets, Solvency Test, and the Reconciliation of the UAAL. GRS also prepared the following trend information in the actuarial section for years on and after July 1, 2011: Summary of Historical Active Membership, Schedule of Retirants Added to and Removed from Rolls, and the Schedule of Funding Progress.

South Carolina PEBA relied upon the data prepared by GRS and included in the actuarial valuations for each system to prepare the following schedules and graphs found in the actuarial section: Summary of Active Membership Data, Summary of Membership Data and Funding Progress and Funding Ratios. In addition, GRS prepared the following schedules in the financial section in accordance with GASB Statement No. 67: Net Pension Liability Schedule, Discount Rate Sensitivity Analysis, Schedule of Changes in the Employers' Net Pension Liability, Schedule of Employers' Net Pension Liability, and the Schedule of Employers' Contributions.

DATA

Member data for retired, active and inactive members was supplied as of July 1, 2016, by the PEBA staff. The staff also supplied asset information as of July 1, 2016. We did not audit this data, but we did apply a number of tests to the data, and we concluded that it was reasonable and consistent with the prior year's data. GRS is not responsible for the accuracy or completeness of the information provided to us by the Systems.

Gabriel Roeder Smith & Company

South Carolina Public Employee Benefit Authority April 21, 2017 Page 4

CERTIFICATION

We certify that the information presented herein is accurate and fairly portrays the actuarial position of the Retirement Systems as of July 1, 2016. All of our work conforms with generally accepted actuarial principles and practices, and in conformity with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with the requirements of South Carolina Code of Laws and, where applicable, the Internal Revenue Code, ERISA, and the Statements of the Governmental Accounting Standards Board.

The undersigned are independent actuaries and consultants. Mr. Newton and Mr. White are Enrolled Actuaries and Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries. Both are experienced in performing valuations for large public retirement systems.

Sincerely,

Gabriel, Roeder, Smith & Co.

Joseph P. Newton, FSA, MAAA, EA

Senior Consultant

Daniel J. White, FSA, MAAA, EA

T White

Senior Consultant

Gabriel Roeder Smith & Company

South Carolina Retirement System Actuarial Balance Sheet

			July 1, 2016	July 1, 2015
1.	Ass	ets		
	a.	Current assets (actuarial value)		
		i. Employee annuity savings fund	\$ 7,447,442	\$ 7,054,277
		ii. Employer annuity accumulation fund	19,846,526	20,311,644
		iii. Total current assets	\$ 27,293,968	\$ 27,365,921
	b.	Present value of future member contributions	\$ 5,909,771	\$ 5,192,778
	c.	Present value of future employer contributions		
		i. Normal contributions	\$ 185,409	\$ 739,431
		ii. Accrued liability contributions	18,565,938	16,753,255
		iii. Total future employer contributions	\$ 18,751,347	\$ 17,492,686
	d.	Total assets	\$ 51,955,086	\$ 50,051,385
2.	Lia	bilities		
	a.	Employee annuity savings fund		
		i. Past member contributions	\$ 7,447,442	\$ 7,054,277
		ii. Present value of future member contributions	5,909,771	5,192,778
		iii. Total contributions to employee annuity		
		savings fund	\$ 13,357,213	\$ 12,247,055
	b.	Employer annuity accumulation fund		
		i. Benefits currently in payment	\$ 29,830,649	\$ 28,645,954
		ii. Benefits to be provided to other members	8,767,224	9,158,376
		iii. Total benefits payable from employer		
		annuity accumulation fund	\$ 38,597,873	\$ 37,804,330
	c.	Total liabilities	\$ 51,955,086	\$ 50,051,385

Police Officers Retirement System Actuarial Balance Sheet

			July 1, 2016	July 1, 2015
1.	Ass	ets		
	a.	Current assets (actuarial value)		
		i. Employee annuity savings fund	\$ 968,722	\$ 905,768
		ii. Employer annuity accumulation fund	3,386,131	3,361,026
		iii. Total current assets	\$ 4,354,853	\$ 4,266,794
	b.	Present value of future member contributions	\$ 812,866	\$ 724,747
	c.	Present value of future employer contributions		
		i. Normal contributions	\$ 386,370	\$ 431,983
		ii. Accrued liability contributions	2,212,544	1,895,301
		iii. Total future employer contributions	\$ 2,598,914	\$ 2,327,284
	d.	Total assets	\$ 7,766,633	\$ 7,318,825
2.	Lia	bilities		
	a.	Employee annuity savings fund		
		i. Past member contributions	\$ 968,722	\$ 905,768
		ii. Present value of future member contributions	812,866	724,747
		iii. Total contributions to employee annuity		
		savings fund	\$ 1,781,588	\$ 1,630,515
	b.	Employer annuity accumulation fund		
		i. Benefits currently in payment	\$ 3,881,514	\$ 3,624,713
		ii. Benefits to be provided to other members	2,103,531	2,063,597
		iii. Total benefits payable from employer		
		annuity accumulation fund	\$ 5,985,045	\$ 5,688,310
	c.	Total liabilities	\$ 7,766,633	\$ 7,318,825

General Assembly Retirement System Actuarial Balance Sheet

			Jul	y 1, 2016	Jul	y 1, 2015
1.	Ass	ets				
	a.	Current assets (actuarial value)				
		i. Employee annuity savings fund	\$	7,334	\$	7,295
		ii. Employer annuity accumulation fund		28,592		30,017
		iii. Total current assets	\$	35,926	\$	37,312
	b.	Present value of future member contributions ¹	\$	1,394	\$	1,587
	c.	Present value of future employer contributions				
		i. Normal contributions	\$	1,174	\$	1,153
		ii. Accrued liability contributions		39,070		37,197
		iii. Total future employer contributions	\$	40,244	\$	38,350
	d.	Total assets	\$	77,564	\$	77,249
2.	Lial	bilities				
	a.	Employee annuity savings fund				
		i. Past member contributions	\$	7,334	\$	7,295
		ii. Present value of future member contributions ¹		1,394		1,587
		iii. Total contributions to employee annuity				
		savings fund	\$	8,728	\$	8,882
	b.	Employer annuity accumulation fund				
		i. Benefits currently in payment	\$	57,314	\$	58,384
		ii. Benefits to be provided to other members		11,522		9,983
		iii. Total benefits payable from employer				
		annuity accumulation fund	\$	68,836	\$	68,367
	c.	Total liabilities	\$	77,564	\$	77,249

¹ Includes expected contributions from special contributors.

Judges and Solicitors Retirement System Actuarial Balance Sheet

			Ju	ly 1, 2016	Ju	ly 1, 2015
1.	Ass	sets				
	a.	Current assets (actuarial value)				
		i. Employee annuity savings fund	\$	25,082	\$	24,650
		ii. Employer annuity accumulation fund		133,755		133,333
		iii. Total current assets	\$	158,837	\$	157,983
	b.	Present value of future member contributions	\$	14,008	\$	15,087
	c.	Present value of future employer contributions				
		i. Normal contributions	\$	22,842	\$	25,083
		ii. Accrued liability contributions		124,467		111,692
		iii. Total future employer contributions	\$	147,309	\$	136,775
	d.	Total assets	\$	320,154	\$	309,845
2.	Lia	bilities				
	a.	Employee annuity savings fund				
		i. Past member contributions	\$	25,082	\$	24,650
		ii. Present value of future member contributions		14,008		15,087
		iii. Total contributions to employee annuity				
		savings fund	\$	39,090	\$	39,737
	b.	Employer annuity accumulation fund				
		i. Benefits currently in payment	\$	200,323	\$	186,481
		ii. Benefits to be provided to other members		80,741		83,627
		iii. Total benefits payable from employer				
		annuity accumulation fund	\$	281,064	\$	270,108
	c.	Total liabilities	\$	320,154	\$	309,845

South Carolina National Guard Supplemental Retirement Plan Actuarial Balance Sheet

			Jul	y 1, 2016	Jul	July 1, 2015	
1.	Ass	sets					
	a.	Current assets (actuarial value)	\$	26,751	\$	25,727	
	b.	Present value of future member contributions		0		0	
	c.	Present value of future employer contributions					
		i. Normal contributions	\$	6,830	\$	6,135	
		ii. Accrued liability contributions		37,694		36,414	
		iii. Total future employer contributions	\$	44,524	\$	42,549	
	d.	Total assets	\$	71,275	\$	68,276	
2.	Lial	bilities					
	a.	Benefits to be paid to retired members	\$	34,562	\$	33,521	
	b.	Benefits to be paid to former members					
		entitled to deferred pensions		11,154		11,152	
	c.	Benefits to be paid to current active members		25,559		23,603	
	d.	Total liabilities	\$	71,275	\$	68,276	

South Carolina Retirement System Results of the Valuation as of July 1, 2016

(Amounts expressed in thousands)

		 uly 1, 2016
1.	Actuarial Present Value of Future Benefits	
	a. Present retired members and beneficiaries	\$ 29,830,649
	b. Present active and inactive members	22,124,437
	c. Total actuarial present value	\$ 51,955,086
2.	Present Value of Future Normal Contributions	
	a. Employee	\$ 5,909,771
	b. Employer	 185,409
	c. Total future normal contributions	\$ 6,095,180
3.	Actuarial Liability	\$ 45,859,906
4.	Current Actuarial Value of Assets	\$ 27,293,968
5.	Unfunded Actuarial Liability	\$ 18,565,938
6.	UAAL Amortization Rates Based on an Employer Contribution	
	Rate of 11.99%	40.040/
	a. Active members	10.81%
	b. TERI members (including employee contributions)	21.08%
	c. ORP members	6.99%
	d. Re-employed retirees (including employee contributions)	21.08%
7.	Unfunded Actuarial Liability Liquidation Period	30 years

Note: The employer contribution rate includes the cost of incidental death benefits.

Police Officers Retirement System Results of the Valuation as of July 1, 2016

(Amounts expressed in thousands)

		Ju	ıly 1, 2016
1.	Actuarial Present Value of Future Benefits		
	a. Present retired members and beneficiaries	\$	3,881,514
	b. Present active and inactive members		3,885,119
	c. Total actuarial present value	\$	7,766,633
2.	Present Value of Future Normal Contributions		
	a. Member	\$	812,866
	b. Employer		386,370
	c. Total future normal contributions	\$	1,199,236
3.	Actuarial Liability	\$	6,567,397
4.	Current Actuarial Value of Assets	\$	4,354,853
5.	Unfunded Actuarial Liability	\$	2,212,544
6.	Unfunded Actuarial Liability Rate in Effect for FY 2018		9.54%
7.	Unfunded Actuarial Liability Liquidation Period		30 years

Note: The employer contribution rate includes the cost of accidental and incidental death benefits.

General Assembly Retirement System Results of the Valuation as of July 1, 2016

		Ju	ly 1, 2016
1.	Actuarial Present Value of Future Benefits	4	F7 24 4
	a. Present retired members and beneficiariesb. Present active and inactive members	\$	57,314 20,250
	c. Total actuarial present value	\$	77,564
2.	Present Value of Future Normal Contributions		
	a. Employee	\$	1,394
	b. Employer		1,174
	c. Total future normal contributions	\$	2,568
3.	Actuarial Liability	\$	74,996
4.	Current Actuarial Value of Assets	\$	35,926
5.	Unfunded Actuarial Liability	\$	39,070
6.	Unfunded Actuarial Liability Liquidation Period		
	from the Valuation Date		11 years

Judges and Solicitors Retirement System Results of the Valuation as of July 1, 2016

(Amounts expressed in thousands)

		Jul	y 1, 2016
1.	Actuarial Present Value of Future Benefits		
	a. Present retired members and beneficiaries	\$	200,323
	b. Present active and inactive members		119,831
	c. Total actuarial present value	\$	320,154
2.	Present Value of Future Normal Contributions		
	a. Employee	\$	14,008
	b. Employer		22,842
	c. Total future normal contributions	\$	36,850
3.	Actuarial Liability	\$	283,304
4.	Current Actuarial Value of Assets	\$	158,837
5.	Unfunded Actuarial Liability	\$	124,467
6.	UAAL Amortization Rates Based on a 49.42%		
	Employer Contribution Rate		
	a. Active members		31.73%
	b. DROP and Retired-in-Place Members (includ	ing	59.42%
	employee contributions)		
7.	Unfunded Actuarial Liability Liquidation Period		30 Years

Note: The employer contribution rate includes the cost of incidental death benefits.

South Carolina National Guard Supplemental Retirement Plan Results of the Valuation as of July 1, 2016

		Jul	y 1, 2016
1.	Actuarial Present Value of Future Benefits		
	a. Present retired members and beneficiaries	\$	34,562
	b. Present active and inactive members		36,713
	c. Total actuarial present value	\$	71,275
2.	Present Value of Future Normal Contributions		
	a. Employee	\$	0
	b. Employer		6,830
	c. Total future normal contributions	\$	6,830
3.	Actuarial Liability	\$	64,445
4.	Current Actuarial Value of Assets	\$	26,741
5.	Unfunded Actuarial Liability	\$	37,704
6.	Unfunded Actuarial Liability Liquidation Period (blended)		17 years

South Carolina Retirement System

Summary of Actuarial Methods and Assumptions

Through fiscal year 2017, the PEBA Board and the State Fiscal Accountability Authority (SFAA) were responsible for adopting all actuarial methods and assumptions used in the annual actuarial valuations, except for the investment rate of return, based on recommendations from the consulting actuary. Pursuant to state statute, the annual assumed rate of return was established as 7.50 percent by the SC General Assembly. South Carolina State Statute also requires that an experience analysis that reviews the economic and demographic assumptions be performed every five years. The most recent experience analysis was performed for the five year period ended July 1, 2015, at which time the PEBA Board and SFAA adopted a number of changes in the actuarial assumptions that were utilized beginning with the July 1, 2016 annual valuations. The experience study also recommended reducing the long-term investment rate of return assumption; however, because the prescribed assumption was set in state statute by the General Assembly, changing the rate required legislative action. The General Assembly has since passed the Retirement Systems Funding and Administration Act of 2017 which changes responsibilities, no longer requiring SFAA's approval for the implementation of PEBA policy decisions and actuarial assumptions. As part of this Act, the General Assembly also lowered the annual assumed rate of return to 7.25 percent beginning with the July 1, 2017 annual valuations. The assumed rate of return will expire July 1, 2021, and every four years thereafter. PEBA must propose an annual rate of return every four years, which will become effective if the General Assembly fails to enact a rate of return.

Following is a summary of the actuarial assumptions and methods used in the July 1, 2016 valuation of the South Carolina Retirement System for funding purposes and financial reporting purposes.

Investment Rate of Return

The assumed annual investment rate of return of 7.50 percent net of investment and administrative expenses is composed of a 2.25 percent inflation component and a 5.25 percent real rate of return, net of investment and administration expenses.

The annual investment return assumption is prescribed in Section 9-16-335 of the South Carolina Code of Laws and as described above, the Retirement System Funding and Administration Act of 2017 lowered the assumed annual rate of return from 7.50 percent to 7.25 percent, effective July 1, 2017.

Rates of Annual Salary Increase

Rates of annual salary increase are assumed to vary for the first 20 years of service due to expected merit and promotional increases which differ by employee groups. Beginning with the 21st year of service, the assumed annual rate of increase is 3.0 percent for both groups and for all future years of service.

The 3.0 percent rate of the increase is composed of a 2.25 percent inflation component and a 0.75 percent real rate of wage increase (productivity) component.

South Carolina Retirement System Active Male and Female Salary Increase Rate

	General Em	ployees	Teachers		
Years of Service	Annual Promotional/Longevity Rates of Increase	Total Annual Rate of Increase Including 3.0% Wage Inflation	Annual Promotional/Longevity Rates of Increase	Total Annual Rate of Increase Including 3.0% Wage Inflation	
1	4.00%	7.00%	7.00%	10.00%	
2	3.00%	6.00%	9.50%	12.50%	
3	2.25%	5.25%	3.00%	6.00%	
4	1.75%	4.75%	2.75%	5.75%	
5	1.50%	4.50%	2.50%	5.50%	
6	1.25%	4.25%	2.25%	5.25%	
7	1.00%	4.00%	2.00%	5.00%	
8	1.00%	4.00%	1.75%	4.75%	
9	1.00%	4.00%	1.75%	4.75%	
10	0.75%	3.75%	1.50%	4.50%	
11	0.50%	3.50%	1.50%	4.50%	
12	0.50%	3.50%	1.25%	4.25%	
13	0.50%	3.50%	1.00%	4.00%	
14	0.50%	3.50%	1.00%	4.00%	
15	0.50%	3.50%	0.75%	3.75%	
16	0.50%	3.50%	0.75%	3.75%	
17	0.50%	3.50%	0.50%	3.50%	
18	0.50%	3.50%	0.50%	3.50%	
19	0.25%	3.25%	0.25%	3.25%	
20	0.25%	3.25%	0.25%	3.25%	
21+	0.00%	3.00%	0.00%	3.00%	

South Carolina Retirement System Active Member Decrement Rates

a. Assumed rate of Service Retirement or TERI entry are shown in the following tables. The first table provides retirement rates for Class Two members who attain age 65 before attaining 28 years of service. The second table is based on service and is for Class Two members who attain 28 years of service before age 65. The third table provides the retirement rate applicable to Class Three members.

Annual Age Based Retirement Rates¹

	Class Two								
		General E	mployees		Teachers				
Age	Red	uced	Nor	rmal	Red	uced No		mal	
	Male	Female	Male	Female	Male	Female	Male	Female	
55	10%	9%	0%	0%	10%	9%	0%	0%	
56	9%	10%	0%	0%	11%	9%	0%	0%	
57	9%	10%	0%	0%	11%	10%	0%	0%	
58	9%	11%	0%	0%	11%	10%	0%	0%	
59	9%	11%	0%	0%	11%	10%	0%	0%	
60	9%	11%	0%	0%	11%	10%	0%	0%	
61	9%	11%	0%	0%	11%	13%	0%	0%	
62	22%	20%	0%	0%	22%	20%	0%	0%	
63	16%	18%	0%	0%	22%	20%	0%	0%	
64	16%	18%	0%	0%	22%	20%	0%	0%	
65	0%	0%	20%	22%	0%	0%	20%	25%	
66	0%	0%	20%	22%	0%	0%	20%	25%	
67	0%	0%	17%	19%	0%	0%	20%	20%	
68	0%	0%	17%	19%	0%	0%	20%	20%	
69	0%	0%	17%	19%	0%	0%	20%	20%	
70	0%	0%	17%	19%	0%	0%	20%	20%	
71	0%	0%	17%	19%	0%	0%	20%	20%	
72	0%	0%	17%	19%	0%	0%	20%	20%	
73	0%	0%	17%	19%	0%	0%	20%	20%	
74	0%	0%	17%	19%	0%	0%	20%	20%	
75	0%	0%	100%	100%	0%	0%	100%	100%	

¹Retirement rate is 50% at the later of age 62 or when the member is first eligible for a normal retirement benefit (i.e. the first age the member is eligible to concurrently commence benefits and continue employment).

South Carolina Retirement System Annual Service Based Retirement Rates¹

Class Two Members								
Years of	General Er	nployees	Teachers					
Service	Male	Female	Male	Female				
28	15%	18%	7%	8%				
29	10%	10%	8%	9%				
30	10%	10%	8%	9%				
31	10%	10%	9%	10%				
32	10%	10%	10%	11%				
33	18%	20%	11%	12%				
34	18%	20%	12%	18%				
35	18%	20%	13%	18%				
36	20%	20%	14%	18%				
37	20%	20%	18%	18%				
38	20%	20%	17%	19%				
39	20%	20%	17%	20%				
40+	100%	100%	100%	100%				

¹Retirement rate is 50% at the later of age 62 or when the member is first eligible for a normal retirement benefit (i.e. the first age the member is eligible to concurrently commence benefits and continue employment).

South Carolina Retirement System Class Three Retirement Rates¹

	General Employees			Teachers					
Age	Reduced Norr		mal Redu		uced Norr		mal	Rule of 90	
	Male	Female	Male	Female	Male	Female	Male	Female	
55	0%	0%	0%	0%	0%	0%	0%	0%	20%
56	0%	0%	0%	0%	0%	0%	0%	0%	20%
57	0%	0%	0%	0%	0%	0%	0%	0%	20%
58	0%	0%	0%	0%	0%	0%	0%	0%	20%
59	0%	0%	0%	0%	0%	0%	0%	0%	20%
60	9%	11%	0%	0%	11%	10%	0%	0%	20%
61	9%	11%	0%	0%	11%	13%	0%	0%	20%
62	22%	20%	0%	0%	22%	20%	0%	0%	20%
63	16%	18%	0%	0%	22%	20%	0%	0%	20%
64	16%	18%	0%	0%	22%	20%	0%	0%	20%
65	0%	0%	20%	22%	0%	0%	20%	25%	20%
66	0%	0%	20%	22%	0%	0%	20%	25%	20%
67	0%	0%	17%	19%	0%	0%	20%	20%	20%
68	0%	0%	17%	19%	0%	0%	20%	20%	20%
69	0%	0%	17%	19%	0%	0%	20%	20%	20%
70	0%	0%	17%	19%	0%	0%	20%	20%	20%
71	0%	0%	17%	19%	0%	0%	20%	20%	20%
72	0%	0%	17%	19%	0%	0%	20%	20%	20%
73	0%	0%	17%	19%	0%	0%	20%	20%	20%
74	0%	0%	17%	19%	0%	0%	20%	20%	20%
75	0%	0%	100%	100%	0%	0%	100%	100%	100%

¹Retirement rate is 50% at the later of age 62 or when the member is first eligible for a normal retirement benefit (i.e. the first age the member is eligible to concurrently commence benefits and continue employment).

b. Assumed rates of disability are shown in the following table.

Disability Rates

Ago	General Er	mployees	Teachers					
Age	Male	Female	Male	Female				
25	0.0504%	0.0440%	0.0419%	0.0458%				
30	0.1008%	0.0616%	0.0629%	0.0616%				
35	0.1512%	0.1232%	0.0838%	0.0616%				
40	0.2520%	0.1584%	0.1572%	0.1074%				
45	0.3528%	0.2288%	0.2620%	0.2200%				
50	0.5040%	0.3872%	0.4192%	0.3520%				
55	0.8064%	0.6160%	0.6812%	0.5720%				
60	1.0080%	0.9416%	1.0480%	0.8800%				
64	1.2600%	1.3112%	1.3100%	1.1000%				

There is no differentiation between duty and nonduty related disability benefits.

c. Active Member Mortality

Rates of active member mortality are based upon the RP-2014 Mortality Table for Employees with applicable multipliers to better reflect anticipated experience and provide margin for future improvement in mortality.

South Carolina Retirement System Active Mortality Rates (Multiplier Applied)

Ago	General Er	nployees	Teachers		
Age	Male	Female	Male	Female	
25	0.0460%	0.0164%	0.0460%	0.0147%	
30	0.0429%	0.0207%	0.0429%	0.0185%	
35	0.0497%	0.0272%	0.0497%	0.0243%	
40	0.0597%	0.0376%	0.0597%	0.0337%	
45	0.0924%	0.0624%	0.0924%	0.0558%	
50	0.1602%	0.1047%	0.1602%	0.0937%	
55	0.2649%	0.1589%	0.2649%	0.1422%	
60	0.4454%	0.2320%	0.4454%	0.2076%	
64	0.7008%	0.3220%	0.7008%	0.2881%	
Multiplier	95%	95%	95%	85%	

For purposes of determining active death benefits, 5 percent of active deaths for general employees are assumed to be duty related.

d. Rates of Withdrawal

Rate of withdrawal for active members prior to eligibility for retirement are for each employee group and differ by gender and service. Sample rates are shown in the following tables.

South Carolina Retirement System Withdrawal Rates - Male General Employees

							Year	rs of Se	rvice						
Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
25	0.200	0.175	0.123	0.103	0.090	0.085	0.071	0.064	0.055	0.050	0.040	0.000	0.000	0.000	0.000
30	0.200	0.175	0.123	0.103	0.090	0.085	0.071	0.064	0.055	0.050	0.040	0.040	0.037	0.034	0.031
35	0.200	0.175	0.123	0.103	0.090	0.085	0.071	0.064	0.055	0.050	0.040	0.040	0.037	0.034	0.031
40	0.200	0.175	0.123	0.103	0.090	0.085	0.071	0.064	0.055	0.050	0.034	0.034	0.034	0.034	0.031
45	0.200	0.175	0.123	0.103	0.090	0.085	0.071	0.064	0.055	0.050	0.031	0.031	0.029	0.026	0.023
50	0.200	0.175	0.123	0.103	0.090	0.085	0.071	0.064	0.055	0.050	0.020	0.020	0.020	0.020	0.020
55	0.200	0.175	0.123	0.103	0.090	0.085	0.071	0.064	0.055	0.050	0.010	0.010	0.010	0.010	0.010
60	0.200	0.175	0.123	0.103	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
						Yea	irs of Se	ervice (Continu	ied)					
Age	15	16	17	18	19	20	21	22	23	24	25	26	27	28	8+
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
30	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
35	0.029	0.026	0.023	0.020	0.018	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
40	0.029	0.026	0.023	0.020	0.018	0.015	0.013	0.011	0.010	0.009	0.008	0.000	0.000	0.0	000
45	0.020	0.020	0.020	0.020	0.018	0.015	0.013	0.011	0.010	0.009	0.008	0.007	0.006	0.0	000
50	0.020	0.018	0.015	0.013	0.011	0.010	0.010	0.010	0.010	0.009	0.008	0.007	0.006	0.0	000
55	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.008	0.007	0.006	0.000	0.000	0.000	0.0	000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000

Withdrawal Rates - Female General Employees

		Years of Service													
Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
25	0.230	0.217	0.141	0.118	0.101	0.097	0.084	0.075	0.067	0.057	0.046	0.000	0.000	0.000	0.000
30	0.230	0.217	0.141	0.118	0.101	0.097	0.084	0.075	0.067	0.057	0.046	0.046	0.042	0.038	0.034
35	0.230	0.217	0.141	0.118	0.101	0.097	0.084	0.075	0.067	0.057	0.046	0.046	0.042	0.038	0.034
40	0.230	0.217	0.141	0.118	0.101	0.097	0.084	0.075	0.067	0.057	0.038	0.038	0.038	0.038	0.034
45	0.230	0.217	0.141	0.118	0.101	0.097	0.084	0.075	0.067	0.057	0.034	0.034	0.030	0.026	0.023
50	0.230	0.217	0.141	0.118	0.101	0.097	0.084	0.075	0.067	0.057	0.020	0.020	0.020	0.020	0.020
55	0.230	0.217	0.141	0.118	0.101	0.097	0.084	0.075	0.067	0.057	0.012	0.012	0.012	0.012	0.012
60	0.230	0.217	0.141	0.118	0.101	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
						Yea	irs of Se	ervice (0	Continu	ed)					
Age	15	16	17	18	19	20	21	22	23	24	25	26	27	28	8+
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
30	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
35	0.030	0.026	0.023	0.020	0.018	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
40	0.030	0.026	0.023	0.020	0.018	0.016	0.014	0.013	0.012	0.011	0.010	0.000	0.000	0.0	000
45	0.020	0.020	0.020	0.020	0.018	0.016	0.014	0.013	0.012	0.011	0.010	0.009	0.008	0.0	000
50	0.020	0.018	0.016	0.014	0.013	0.012	0.012	0.012	0.012	0.011	0.010	0.009	0.008	0.0	000
55	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.010	0.009	0.008	0.000	0.000	0.000	0.0	000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000

South Carolina Retirement System Withdrawal Rates - Male Teachers

							Year	rs of Se	rvice						
Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
25	0.000	0.217	0.145	0.117	0.098	0.083	0.071	0.061	0.050	0.042	0.039	0.000	0.000	0.000	0.000
30	0.000	0.217	0.145	0.117	0.098	0.083	0.071	0.061	0.050	0.042	0.039	0.030	0.030	0.029	0.028
35	0.000	0.217	0.145	0.117	0.098	0.083	0.071	0.061	0.050	0.042	0.039	0.030	0.030	0.029	0.028
40	0.000	0.217	0.145	0.117	0.098	0.083	0.071	0.061	0.050	0.042	0.039	0.029	0.029	0.029	0.028
45	0.000	0.217	0.145	0.117	0.098	0.083	0.071	0.061	0.050	0.042	0.039	0.028	0.027	0.026	0.024
50	0.000	0.217	0.145	0.117	0.098	0.083	0.071	0.061	0.050	0.042	0.039	0.022	0.022	0.022	0.022
55	0.000	0.217	0.145	0.117	0.098	0.083	0.071	0.061	0.050	0.042	0.039	0.013	0.013	0.013	0.013
60	0.000	0.217	0.145	0.117	0.098	0.083	0.071	0.061	0.050	0.042	0.039	0.008	0.008	0.008	0.008
						Yea	rs of Se	ervice (Continu	ed)					
Age	15	16	17	18	19	20	21	22	23	24	25	26	27	28	3+
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
30	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
35	0.027	0.026	0.024	0.022	0.020	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
40	0.027	0.026	0.024	0.022	0.020	0.017	0.015	0.014	0.013	0.012	0.011	0.000	0.000	0.0	000
45	0.022	0.022	0.022	0.022	0.020	0.017	0.015	0.014	0.013	0.012	0.011	0.010	0.009	0.0	000
50	0.022	0.020	0.017	0.015	0.014	0.013	0.013	0.013	0.013	0.012	0.011	0.010	0.009	0.0	000
55	0.013	0.013	0.013	0.013	0.013	0.013	0.012	0.011	0.010	0.009	0.008	0.008	0.008	0.0	000
60	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.000	0.000	0.000	0.0	000

Withdrawal Rates - Female Teachers

							Year	s of Se	rvice						
Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
25	0.000	0.202	0.125	0.103	0.089	0.074	0.069	0.057	0.053	0.046	0.037	0.000	0.000	0.000	0.000
30	0.000	0.202	0.125	0.103	0.089	0.074	0.069	0.057	0.053	0.046	0.037	0.030	0.030	0.027	0.024
35	0.000	0.202	0.125	0.103	0.089	0.074	0.069	0.057	0.053	0.046	0.037	0.030	0.030	0.027	0.024
40	0.000	0.202	0.125	0.103	0.089	0.074	0.069	0.057	0.053	0.046	0.037	0.030	0.027	0.027	0.024
45	0.000	0.202	0.125	0.103	0.089	0.074	0.069	0.057	0.053	0.046	0.037	0.024	0.022	0.020	0.018
50	0.000	0.202	0.125	0.103	0.089	0.074	0.069	0.057	0.053	0.046	0.037	0.018	0.016	0.016	0.016
55	0.000	0.202	0.125	0.103	0.089	0.074	0.069	0.057	0.053	0.046	0.037	0.010	0.009	0.009	0.009
60	0.000	0.202	0.125	0.103	0.089	0.074	0.069	0.057	0.053	0.046	0.037	0.006	0.006	0.006	0.006
						Yea	irs of Se	ervice (Continu	ed)					
Age	15	16	17	18	19	20	21	22	23	24	25	26	27	28	3+
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
30	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
35	0.022	0.020	0.018	0.016	0.014	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0	000
40	0.022	0.020	0.018	0.016	0.014	0.012	0.011	0.010	0.009	0.008	0.007	0.000	0.000	0.0	000
45	0.016	0.016	0.016	0.016	0.014	0.012	0.011	0.010	0.009	0.008	0.007	0.006	0.006	0.0	000
50	0.016	0.014	0.012	0.011	0.010	0.009	0.009	0.009	0.009	0.008	0.007	0.006	0.006	0.0	000
55	0.009	0.009	0.009	0.009	0.009	0.009	0.008	0.007	0.006	0.006	0.006	0.006	0.006	0.0	000
60	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.000	0.000	0.000	0.0	000

South Carolina Retirement System Refund of Member Contributions

The following percentage of vested members are assumed to elect to receive a refund of contributions upon termination of employment prior to becoming eligible to commence a service retirement benefit. This assumption is based on the plan's experience.

Age	Less than 40	40-49	50 or More
Refund rate	45%	40%	35%

Post Retirement Mortality

a. Healthy Retirees and Beneficiaries – The 2016 Public Retirees of South Carolina Mortality Table for Males and the 2016 Public Retirees of South Carolina Mortality Table for Females, projected using the AA projection table from the year 2016 and with multipliers based on plan experience The following are sample rates of the base table:

Nondisabled Annuitant Mortality Rates before Projection (Multiplier Applied)

	General E	Employees	Teachers				
Age	Males	Females	Males	Females			
50	0.2038%	0.1454%	0.1875%	0.1284%			
55	0.3205%	0.2465%	0.2949%	0.2177%			
60	0.5863%	0.4265%	0.5394%	0.3765%			
65	1.0198%	0.5924%	0.9382%	0.5230%			
70	1.5718%	0.9640%	1.4461%	0.8511%			
75	2.7195%	1.8534%	2.5019%	1.6363%			
80	5.0493%	3.7276%	4.6454%	3.2910%			
85	9.1594%	7.0538%	8.4266%	6.2277%			
90	15.9042%	12.3489%	14.6319%	10.9026%			
Multiplier	100%	111%	92%	98%			

The following table provides the life expectancy for individuals retiring in future years based on the assumption with full generational projection:

Life Expectancy for an Age 65 Retiree in Years

		Year of Retirement								
Employee Type	2020	2025	2030	2035						
General Employee - Male	20.6	20.9	21.3	21.6						
General Employee - Female	22.7	22.8	23.0	23.2						
Teacher - Male	21.2	21.5	21.9	22.2						
Teacher - Female	23.6	23.8	24.0	24.1						

b. A separate table of mortality rates is used for disabled retirees based on the RP-2014 Disabled Mortality table projected using the AA projection table from the year 2014 and with multipliers based on plan experience. The following are sample rates of the base table:

South Carolina Retirement System Disabled Annuitant Mortality Rates (Multiplier Applied)

	General E	mployees	Teac	hers
Age	Males	Females	Males	Females
50	2.5494%	1.4884%	2.5494%	1.4884%
55	2.9211%	1.8099%	2.9211%	1.8099%
60	3.3255%	2.1249%	3.3255%	2.1249%
65	3.9606%	2.6075%	3.9606%	2.6075%
70	5.0433%	3.5254%	5.0433%	3.5254%
75	6.7859%	5.1306%	6.7859%	5.1306%
80	9.5770%	7.6295%	9.5770%	7.6295%
85	14.1629%	11.3025%	14.1629%	11.3025%
90	21.6256%	16.5815%	21.6256%	16.5815%
Multiplier	125%	125%	125%	125%

Asset Valuation Method

The actuarial value of assets is equal to the market value, adjusted for the five-year phase in of the actual investment return in excess of (or less than) the expected investment return on a market value of asset basis. This five-year phase in begins with the investment experience for the fiscal year ending June 30, 2016. The actual return is calculated net of investment expenses, and the expected investment return is equal to the assumed investment return rate multiplied by the prior year's market value of assets, adjusted for contributions, benefits paid, and refunds.

Expected earnings are determined using the assumed investment rate of return and the beginning of year actuarial value of assets (adjusted for receipts and disbursements during the year). The returns are computed net of administrative and investment expenses.

Actuarial Cost Method

The Entry Age Normal actuarial cost method allocates the System's actuarial present value of future benefits to various periods based upon service. The portion of the present value of future benefits allocated to years of service prior to the valuation date is the actuarial accrued liability, and the portion allocated to years following the valuation date is the present value of future normal costs. The normal cost is determined for each active member as the level percent of payroll necessary to fully fund the expected benefits to be earned over the career of each individual active member. The normal cost is partially funded with active member contributions with the remainder funded by employer contributions.

An unfunded accrued liability exists in the amount equal to the excess of accrued liability over valuation assets. The amortization period of the System is the number of years required to fully amortize the unfunded accrued liability, on an actuarial value of asset basis, with the expected amount of employer contributions in excess of the employers' portion of the normal cost.

Note, the principle financial measurement calculations in this actuarial valuation, which include the unfunded actuarial accrued liability, funded ratio, contribution rates, and funding period, are based on an actuarial value

of assets (smoothed value) basis. The actuarial value of assets is a calculated asset value which may be greater than or less than the market value of assets and is used to dampen some of the volatility in the market value of assets. As a result, many of these measures would be different if they were determined on a market value of assets basis.

Development of the Contribution Rate and Funding Period

The calculation of the employer and member contribution rate as well as the derived funding period takes into account several differences in the contributions paid by the various members as well as the delayed timing (if any) in the effective date of the new contribution rate. Specifically, the factors that are reflected in the calculations of the contribution rate include:

- 1. The anticipated difference in expected contributions received by the System from members and employers as a result of a 24-month delay in effective date of the contribution rate increase after the valuation date.
- 2. The cost (normal cost and actuarial accrued liability) due to incidental death benefits provided to members in the ORP.
- 3. Member and employer contributions made on the payroll of working retirees and members participating in TERI are being used to finance the unfunded actuarial accrued liability since these members do not have a normal cost. Also, the number of working retirees is expected to decrease due to changes in working after retirement provisions enacted with ACT 278 and TERI will be completely eliminated after June 30, 2018.
- 4. The money collected on the payroll of members in ORP that is allocated to finance the unfunded liability in SCRS, which is the SCRS employer contribution rate less 5%, is less than the money collected on the payroll of members in SCRS to finance the unfunded actuarial accrued liability.
- 5. For purposes of calculating the amortization cost and funding period, discrete pay increases and continuous interest was assumed, with amortization payments made at the end of each month.

Unused Annual Leave

To account for the effect of unused annual leave in Average Final Compensation (AFC) of Class Two members, the AFC for Class Two members is increased 2.14 percent at their date of retirement. Unused annual leave is not included in the calculation of the AFC for Class Three Members.

Unused Sick Leave

To account for the effect of unused sick leave on credited service for Class Two members, the service of active Class Two members who retire is increased 3 months. Unused sick leave is not included in determining the credited service for Class Three members.

Future Post-Retirement Benefit Adjustments

Benefits are assumed to increase by the lesser of 1.00 % annually or \$500 beginning on the July 1st following the receipt of 12 monthly benefit payments. The \$500 limit in the annual increase is not indexed to escalate in future years.

Payroll Growth Rate

The total annual payroll of active members (also applies to TERI, ORP and rehired retiree participants) is assumed to increase at an annual rate of 3.00%. This rate represents the underlying expected annual rate of wage inflation and does not anticipate increases in the number of members.

Other Assumptions

- Valuation payroll (used for determining the amortization contribution rate): Prior fiscal year payroll
 projected forward one year using the overall payroll growth rate. This was determined separately for
 TERI, and return to work employees by dividing the actual member contributions received during the
 prior fiscal year by the member contribution rate in effect for that year, and then projecting that
 amount forward one year.
- 2. The normal cost rate is increased by 0.12% to account for administrative expenses that are paid with plan assets.
- 3. Individual salaries used to project benefits: Actual salaries from the past fiscal year are used to determine the final average salary as of the valuation date. For future salaries, the salary from the last fiscal year is projected forward with one year's salary scale.
- 4. Pay increase timing: Beginning of (fiscal) year. This is equivalent to assuming that reported salaries represent amounts paid to members during the year ended on the valuation date.
- 5. Percent married: 100% of male and 100% of female employees are assumed to be married.
- 6. Age difference: Males are assumed to be three years older than their spouses.
- 7. Percent electing annuity on death (when eligible): All of the spouses of vested, married participants are assumed to elect an immediate life annuity.
- 8. Inactive Population: All non-vested members are assumed to take an immediate refund.
- 9. There will be no recoveries once disabled.
- 10. Decrement timing: Terminations for public school employees are assumed to occur at the beginning of the year. Decrements of all types are assumed to occur mid-year.
- 11. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
- 12. Decrement relativity: Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
- 13. Incidence of contributions: Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made. For valuation purposes, the member contribution rate projected to be effect after FY2016 is 9.13% of pay.
- 14. Benefit service: All members are assumed to accrue one year of eligibility service each year.
- 15. All calculations were performed without regard to the compensation limit in IRC Section 401(a)(17) and the benefit limit under IRC Section 415.

Participant Data

Participant data was securely supplied in electronic text files. There were separate files for (i) active and inactive members and (ii) members and beneficiaries receiving benefits.

The data for active members included birth date, gender, service with the current city and total vesting service, salary, and employee contribution account balances. For retired members and beneficiaries, the data included date of birth, gender, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, and form of payment code.

Salary supplied for the current year was based on the annualized earnings for the year preceding the valuation date. Assumptions were made to correct for missing or inconsistent data. These had no material impact on the results presented.

South Carolina Retirement System Development of Actuarial Value of Assets

(Amounts expressed in thousands)

					July 1, 2016		
1.	Actuarial value of assets a	it beg	inning of year		\$	27,365,921	
2.	Market value of assets at	begin	ning of year		\$	25,131,828	
3.	Net new investments						
	a. Contributions				\$	1,827,246	
	b. Disbursements ¹					(2,784,169)	
	c. Subtotal					(956,923)	
4.	Market value of assets at	end o	f year		\$	23,996,362	
5.	Net earnings (Item 4 Ite	\$	(178,543)				
6.	Assumed investment retu		7.50%				
7.	Expected return	\$	1,849,002				
8.	Excess/(shortfall) return (\$	(2,027,545)				
9.	Excess return on assets as						
	Fiscal Year		Excess	Percent	Deferred		
	Ending June 30,		Return	<u>Deferred</u>		<u>Amount</u>	
	a. 2016	\$	(2,027,545)	80%	\$	(1,622,036)	
	b. 2015		(2,792,616)	60%		(1,675,570)	
	c. 2014		N/A	40%		N/A	
	d. 2013		N/A	20%		N/A	
	e. 2012		N/A	0%		N/A	
	f. Total				\$	(3,297,606)	
10.	Actuarial value of assets a	s of J	une 30, 2016 (Item 4	4 Item 9.f)	\$	27,293,968	
11.	Expected actuarial value a	\$	28,425,557				
12.	Asset gain (loss) for year (\$	(1,131,589)				
13.	Asset gain (loss) as % of the	ne act	uarial value of asset	is .		(4.1%)	
14.	Ratio of actuarial value to	mark	cet value			113.7%	

¹For the year ending June 30, 2016, the investment return assumption was net of administration and investment expenses. Beginning July 1, 2016, the investment return assumption is only net of investment expenses.

Police Officers Retirement System

Summary of Actuarial Methods and Assumptions

Through fiscal year 2017, the PEBA Board and the State Fiscal Accountability Authority (SFAA) were responsible for adopting all actuarial methods and assumptions used in the annual actuarial valuations, except for the investment rate of return, based on recommendations from the consulting actuary. Pursuant to state statute, the annual assumed rate of return was established as 7.50 percent by the SC General Assembly. South Carolina State Statute also requires that an experience analysis that reviews the economic and demographic assumptions be performed every five years. The most recent experience analysis was performed for the five year period ended July 1, 2015, at which time the PEBA Board and SFAA adopted a number of changes in the actuarial assumptions that were utilized beginning with the July 1, 2016 annual valuations. The experience study also recommended reducing the long-term investment rate of return assumption; however, because the prescribed assumption was set in state statute by the General Assembly, changing the rate required legislative action. The General Assembly has since passed the Retirement Systems Funding and Administration Act of 2017 which changes responsibilities, no longer requiring SFAA's approval for the implementation of PEBA policy decisions and actuarial assumptions. As part of this Act, the General Assembly also lowered the annual assumed rate of return to 7.25 percent beginning with the July 1, 2017 annual valuations. The assumed rate of return will expire July 1, 2021, and every four years thereafter. PEBA must propose an annual rate of return every four years, which will become effective if the General Assembly fails to enact a rate of return.

Following is a summary of the actuarial assumptions and methods used in the July 1, 2016 valuation of the South Carolina Retirement System for funding purposes and financial reporting purposes.

Investment Rate of Return

The assumed annual investment rate of return of 7.50 percent net of investment and administrative expenses is composed of a 2.25 percent inflation component and a 5.25 percent real rate of return, net of investment and administration expenses.

The annual investment return assumption is prescribed in Section 9-16-335 of the South Carolina Code of Laws and as described above, the Retirement System Funding and Administration Act of 2017 lowered the assumed annual rate of return from 7.50 percent to 7.25 percent, effective July 1, 2017.

Rates of Annual Salary Increase

Rates of annual salary increase are assumed to vary for the first 15 years of service to include anticipated merit and promotional increases. The assumed annual rate of increase is 3.50 percent for all members with 15 or more years of service.

The 3.50 percent rate of increase is composed of a 2.25 percent inflation component and a 1.25 percent real rate of wage increase (productivity) component.

Police Officers Retirement System Active Male and Female Salary Increase Rate

Years of Service	Annual Promotional/Longevity Rates of Increase	Total Annual Rate of Increase Including 3.50% Wage Inflation
1	6.00%	9.50%
2	5.50%	9.00%
3	3.00%	6.50%
4	1.50%	5.00%
5	1.25%	4.75%
6	1.00%	4.50%
7	1.00%	4.50%
8	0.75%	4.25%
9	0.75%	4.25%
10	0.50%	4.00%
11	0.50%	4.00%
12	0.50%	4.00%
13	0.50%	4.00%
14	0.25%	3.75%
15	0.00%	3.50%
16	0.00%	3.50%
17	0.00%	3.50%
18	0.00%	3.50%
19	0.00%	3.50%
20+	0.00%	3.50%

Police Officers Retirement System Active Member Decrement Rates

a. Assumed rates of Service Retirement are shown in the following tables. The first table is for members who attain age 55 before attaining 25 years of service (27 years of service for Class Three Members). The second table is based on service and is for members who attain 25 years of service (27 years of service for Class Three Members) before age 55.

Age Based Retirement Rates/Service Based Retirement Rates

Age	Male	Female
55	20%	20%
56	20%	20%
57	20%	20%
58	10%	10%
59	10%	10%
60	10%	10%
61	25%	25%
62	25%	25%
63	25%	25%
64	25%	25%
65	25%	25%
66	25%	25%
67	25%	25%
68	25%	25%
69	25%	25%
70	100%	100%
71	100%	100%
72	100%	100%
73	100%	100%
74	100%	100%
75	100%	100%

Years of Service			
Class Two	Class Three	Male	Female
25	27	40%	40%
26	28	10%	10%
27	29	10%	10%
28	30	10%	10%
29	31	10%	10%
30	32	10%	10%
31	33	10%	10%
32	34	10%	10%
33	35	10%	10%
34	36	10%	10%
35	37	10%	10%
36	38	10%	10%
37	39	10%	10%
38	40	10%	10%
39	41	10%	10%
40	42	100%	100%

b. Assumed rates of disability are shown in the following table. Twenty-five percent of disabilities are assumed to be duty-related.

Police Officers Retirement System
Disability Rates

Age	Male	Female		
25	0.1740%	0.1740%		
30	0.2320%	0.2320%		
35	0.4350%	0.4350%		
40	0.5800%	0.5800%		
45	0.8700%	0.8700%		
50	1.0875%	1.0875%		
55	0.0000%	0.0000%		
60	0.0000%	0.0000%		
64	0.0000%	0.0000%		

c. Active Member Mortality

Rates of active member mortality are based upon the RP-2014 Mortality Table for Employees with applicable multipliers to better reflect anticipated experience and provide margin for future improvement in mortality.

Active Mortality Rates (Multiplier Applied)

Age	Male	Female
25	0.0460%	0.0164%
30	0.0429%	0.0207%
35	0.0497%	0.0272%
40	0.0597%	0.0376%
45	0.0924%	0.0624%
50	0.1602%	0.1047%
55	0.2649%	0.1589%
60	0.4454%	0.2320%
64	0.7008%	0.3220%
Multiplier	95%	95%

For purposes of determining active death benefits, 5 percent of active deaths for general employees are assumed to be duty related.

d. Rates of Withdrawal

Rates of withdrawal are service related. Sample rates are shown in the table below.

Police Officers Retirement System Annual Withdrawal Rate

Years of		
Service	Male	Female
0	25.00%	25.00%
1	18.00%	18.00%
2	14.00%	14.00%
3	12.00%	12.00%
4	10.70%	10.70%
5	9.54%	9.54%
6	8.50%	8.50%
7	7.58%	7.58%
8	6.75%	6.75%
9	6.02%	6.02%
10	5.37%	5.37%
11	4.78%	4.78%
12	4.26%	4.26%
13	3.80%	3.80%
14	3.39%	3.39%
15	3.02%	3.02%
16	2.69%	2.69%
17	2.40%	2.40%
18	2.14%	2.14%
19	1.91%	1.91%
20	1.70%	1.70%
21	1.51%	1.51%
22	1.35%	1.35%
23	1.20%	1.20%

Police Officers Retirement System Post Retirement Mortality

a. Healthy retirees and beneficiaries – The 2016 Public Retirees of South Carolina Mortality Table for Males and the 2016 Public Retirees of South Carolina Mortality Table for Females. Future mortality improvements are assumed each year using Scale AA from the year 2016 and multipliers applied to the base table to appropriately fit with plan experience. The following are sample rates:

Nondisabled Annuitant Mortality Rates Before Projection (Multiplier Applied)

Age	Male	Female
50	0.2548%	0.1454%
55	0.4006%	0.2465%
60	0.7329%	0.4265%
65	1.2748%	0.5924%
70	1.9648%	0.9640%
75	3.3994%	1.8534%
80	6.3116%	3.7276%
85	11.4493%	7.0538%
90	19.8803%	12.3489%
Multiplier	125%	111%

Life Expectancy for an Age 65 Retiree in Years

	Year of Retirement			
Member	2020	2025	2030	2035
Male	18.9	19.3	19.7	20.0
Female	22.7	22.8	23.0	23.2

b. A separate table of mortality rates is used for disabled retirees based on the RP-2014 Disabled Mortality Table projected using the AA projection table from the year 2014 with multipliers applied to appropriate fit to plan experience. The following are sample rates:

Police Officers Retirement System Disabled Annuitant Mortality Rates (Multiplier Applied)

	_	
Age	Male	Female
50	1.7336%	1.0121%
55	1.9864%	1.2307%
60	2.2613%	1.4449%
65	2.6932%	1.7731%
70	3.4294%	2.3973%
75	4.6144%	3.4888%
80	6.5124%	5.1881%
85	9.6308%	7.6857%
90	14.7054%	11.2754%
Multiplier	85%	85%

Asset Valuation Method

The actuarial value of assets is equal to the market value, adjusted for the five-year phase in of the actual investment return in excess of (or less than) the expected investment return on a market value of asset basis. This five-year phase in begins with the investment experience for the fiscal year ending June 30, 2016. The actual return is calculated net of investment expenses, and the expected investment return is equal to the assumed investment return rate multiplied by the prior year's market value of assets, adjusted for contributions, benefits paid, and refunds.

Actuarial Cost Method

The Entry Age Normal actuarial cost method allocates the plan's actuarial present value of future benefits to various periods based upon service. The portion of the present value of future benefits allocated to years of service prior to the valuation date is the actuarial accrued liability, and the portion allocated to years following the valuation date is the present value of future normal costs. The normal cost is determined for each active member as the level percent of payroll necessary to fully fund the expected benefits to be earned over the career of each individual active member. The normal cost is partially funded with active member contributions with the remainder funded by employer contributions.

An unfunded accrued liability exists in the amount equal to the excess of accrued liability over valuation assets. The amortization period of the System is the number of years required to fully amortize the unfunded accrued liability, on an actuarial value of asset basis, with the expected amount of employer contributions in excess of the employers' portion of the normal cost.

Note, the principle financial measurement calculations in this actuarial valuation, which include the unfunded actuarial accrued liability, funded ratio, contribution rates, and funding period, are based on an actuarial value of assets (smoothed value) basis. The actuarial value of assets is a calculated asset value which may be greater than or less than the market value of assets and is used to dampen some of

the volatility in the market value of assets. As a result, many of these measures would be different if they were determined on a market value of assets basis.

Development of the Contribution Rate and Funding Period

The calculation of the employer and member contribution rate as well as the derived funding period takes into account several differences in the contributions paid by the various members as well as the delayed timing (if any) in the effective date of the new contribution rate. Specifically, the factors that are reflected in the calculations of the contribution rate include:

- 1. The anticipated difference in expected contributions received by the System from members and employers as a result of a 24-month delay in effective date of the contribution rate increase after the valuation date.
- 2. Member and employer contributions made on the payroll of working retirees are being used to finance the unfunded actuarial accrued liability since these members do not have a normal cost. Also, the number of working retirees is expected to decrease due to changes in working after retirement provisions enacted with ACT 278.
- 3. For purposes of calculating the amortization cost and funding period, discrete pay increases and continuous interest was assumed, with amortization payments made at the end of each month.

Unused Annual Leave

To account for the effect of unused annual leave in Average Final Compensation (AFC) of Class Two members, the AFC for Class Two members is increased 3.75 percent at their projected date of termination or retirement. Unused annual leave is not included in the calculation of the AFC for Class Three Members.

Unused Sick Leave

To account for the effect of unused sick leave on credited service for Class Two members, the service of active Class Two members who retire is increased three months. Unused sick leave is not included in determining the credited service for Class Three members.

Future Post-Retirement Benefit Adjustments

Benefits are assumed to increase by the lesser of 1.00 percent annually or \$500 beginning on the July 1st following the receipt of 12 monthly benefit payments. The \$500 limit in the annual increase is not indexed to escalate in future years.

Payroll Growth Rate

The total annual payroll of all contributing members is assumed to increase at an annual rate of 3.00 percent.

Other Assumptions

Valuation payroll (used for determining the amortization contribution rate): Prior fiscal year
payroll projected forward one year using the overall payroll growth rate. This was determined
separately for active employees and return to work employees by dividing the actual member
contributions received during the prior fiscal year by the applicable member contribution rate
for that fiscal year, and then projecting forward at 3.00 percent.

- 2. Individual salaries used to project benefits: Actual salaries from the past fiscal year are used to determine the final average salary as of the valuation date. For future salaries, the salary from the last fiscal year is projected forward with one year's salary scale.
- 3. Pay increase timing: Beginning of (fiscal) year. This is equivalent to assuming that reported salaries represent amounts paid to members during the year ended on the valuation date.
- 4. Percent married: 100 percent of male and 100 percent of female employees are assumed to be married
- 5. Age difference: Males are assumed to be four years older than their spouses.
- 6. Percent electing annuity on death (when eligible): All of the spouses of vested, married participants are assumed to elect an immediate life annuity.
- 7. Inactive Population: All non-vested members are assumed to take an immediate refund. Vested members are assumed to elect a refund or a deferred benefit commencing at age 65, whichever is more valuable at the valuation date.
- 8. There will be no recoveries once disabled.
- 9. Decrement timing: Decrements of all types are assumed to occur mid-year.
- 10. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
- 11. Decrement relativity: Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
- 12. Incidence of contributions: Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made. For valuation purposes, the member contribution rate projected to be in effect after FY 2016 is 9.32 percent of pay.
- 13. Benefit service: All members are assumed to accrue one year of eligibility service each year.
- 14. All calculations were performed without regard to the compensation limit in IRC Section 401(a)(17) and the benefit limit under IRC Section 415.

Participant Data

Participant data was securely supplied in electronic text files. There were separate files for (i) active and inactive members, and (ii) members and beneficiaries receiving benefits.

The data for active members included birth date, gender, service with the current city and total vesting service, salary, and employee contribution account balances. For retired members and beneficiaries, the data included date of birth, gender, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, and form of payment code.

Salary supplied for the current year was based on the annualized earnings for the year preceding the valuation date. Assumptions were made to correct for missing or inconsistent data. These had no material impact on the results presented.

Police Officers Retirement System Development of Actuarial Value of Assets

(Amounts expressed in thousands)

				July 1, 2016
1.	Actuarial value of assets	\$ 4,266,794		
2.	Market value of assets a	\$ 3,971,825		
3.	Net new investments		4 200 400	
	a. Contributionsb. Disbursements ¹			\$ 290,429
				(359,527)
	c. Subtotal			(69,098)
4.	Market value of assets a	t end of year		\$ 3,876,036
5.	Net earnings (Item 4 It	em 2 Item 3.c.)		\$ (26,691)
6.	Assumed investment ret	urn rate for fiscal year		7.50%
7.	Expected return			\$ 295,296
8. Excess/(shortfall) return (Item 5 Item 7.)				\$ (321,987)
9.	Excess return on assets a	as of June 30, 2016:		
	Fiscal Year	Excess	Percent	Deferred
	Ending June 30	<u>Return</u>	<u>Deferred</u>	<u>Amount</u>
	a. 2016	\$ (321,987)	80%	\$ (257,590)
	b. 2015	(368,711)	60%	(221,227)
	c. 2014	N/A	40%	N/A
	d. 2013	N/A	20%	N/A
	e. 2012	N/A	0%	N/A
	f. Total			\$ (478,817)
10.	Actuarial value of assets	\$ 4,354,853		
11.	Expected actuarial value	\$ 4,515,114		
12.	Asset gain (loss) for year	\$ (160,261)		
13.	Asset gain (loss) as % of	(3.7%)		
14.	Ratio of actuarial value t	112.4%		

¹For the year ending June 30, 2016, the investment return assumption was net of administration and investment expenses. Beginning July 1, 2016, the investment return assumption is only net of investment expenses.

General Assembly Retirement System

Summary of Actuarial Methods and Assumptions

Through fiscal year 2017, the PEBA Board and the State Fiscal Accountability Authority (SFAA) were responsible for adopting all actuarial methods and assumptions used in the annual actuarial valuations, except for the investment rate of return, based on recommendations from the consulting actuary. Pursuant to state statute, the annual assumed rate of return was established as 7.50 percent by the SC General Assembly. South Carolina State Statute also requires that an experience analysis that reviews the economic and demographic assumptions be performed every five years. The most recent experience analysis was performed for the five year period ended July 1, 2015, at which time the PEBA Board and SFAA adopted a number of changes in the actuarial assumptions that were utilized beginning with the July 1, 2016 annual valuations. The experience study also recommended reducing the long-term investment rate of return assumption; however, because the prescribed assumption was set in state statute by the General Assembly, changing the rate required legislative action. The General Assembly has since passed the Retirement Systems Funding and Administration Act of 2017 which changes responsibilities, no longer requiring SFAA's approval for the implementation of PEBA policy decisions and actuarial assumptions. As part of this Act, the General Assembly also lowered the annual assumed rate of return to 7.25 percent beginning with the July 1, 2017 annual valuations. The assumed rate of return will expire July 1, 2021, and every four years thereafter. PEBA must propose an annual rate of return every four years, which will become effective if the General Assembly fails to enact a rate of return.

Following is a summary of the actuarial assumptions and methods used in the July 1, 2016 valuation of the South Carolina Retirement System for funding purposes and financial reporting purposes.

Investment Rate of Return

The assumed annual investment rate of return of 7.50 percent net of investment and administrative expenses is composed of a 2.25 percent inflation component and a 5.25 percent real rate of return, net of investment and administration expenses.

The annual investment return assumption is prescribed in Section 9-16-335 of the South Carolina Code of Laws and as described above, the Retirement System Funding and Administration Act of 2017 lowered the assumed annual rate of return from 7.50 percent to 7.25 percent, effective July 1, 2017.

Rates of Annual Salary Increase

No increases in salary are assumed.

General Assembly Retirement System Active Member Decrement Rates

a. Assumed rates of service retirement are shown in the following table. In addition to the rates in the table below, members with 30 years of service are assumed to immediately commence their retirement benefit. Special contributors are assumed to retire at the earlier of attaining age 60 or attaining 22 years of service.

Age Based Retirement Rates

Age	Assumed Rate
60 & Under	50.00%
61-64	10.00%
65-69	20.00%
70 & older	100.00%

b. An abbreviated table with the assumed rates of disability and mortality while employed is shown below. There is no active employment withdrawal assumption.

Disability Rates/Pre-Retirement Mortality

	Disability Rates		Pre-Retirement Mo	
Age	Male	Female	Male	Female
25	0.0419%	0.0458%	0.0460%	0.0164%
30	0.0629%	0.0616%	0.0429%	0.0207%
35	0.0838%	0.0616%	0.0497%	0.0272%
40	0.1572%	0.1074%	0.0597%	0.0376%
45	0.2620%	0.2200%	0.0924%	0.0624%
50	0.4192%	0.3520%	0.1602%	0.1047%
55	0.6812%	0.5720%	0.2649%	0.1589%
60	1.0480%	0.8800%	0.4454%	0.2320%
Multiplier	101%	88%	95%	95%

Note: The multiplier has been applied to the decrement in the illustrative table.

General Assembly Retirement System Post Retirement Mortality

a. Healthy retirees and beneficiaries – The 2016 Public Retirees of South Carolina Mortality Table for Males and the 2016 Public Retirees of South Carolina Mortality Table for Females multiplied projected using the AA projection table from the year 2016 with multipliers based on plan experience. The following are sample rates:

Healthy Annuitant Mortality Rates Before Projection

Age	Male	Female
50	0.2038%	0.1454%
55	0.3205%	0.2465%
60	0.5863%	0.4265%
65	1.0198%	0.5924%
70	1.5718%	0.9640%
75	2.7195%	1.8534%
80	5.0493%	3.7276%
85	9.1594%	7.0538%
90	15.9042%	12.3489%
Multiplier	100%	111%

Note: The multiplier has been applied to the decrement in the illustrative table.

The following table provides the life expectancy for individuals retiring in future years based on the assumption with full generational projection.

Life Expectancy for an Age 65 Retiree in Years

	Year of Retirement						
Gender	2020	2025	2030	2035			
Male	20.6	20.9	21.3	21.6			
Female	22.7	22.8	23.0	23.2			

b. A separate table of mortality rates is used for disabled retirees based on the RP-2014 Disabled Mortality table projected using the AA projection table from the year 2014 and with multipliers based on plan experience. The following are sample rates of the base table:

General Assembly Retirement System Disabled Annuitant Mortality Rates

Age	Male	Female
50	2.5494%	1.4884%
55	2.9211%	1.8099%
60	3.3255%	2.1249%
65	3.9606%	2.6075%
70	5.0433%	3.5254%
75	6.7859%	5.1306%
80	9.5770%	7.6295%
85	14.1629%	11.3025%
90	21.6256%	16.5815%
Multiplier	125%	125%

Note: The multiplier has been applied to the decrement in the illustrative table.

Asset Valuation Method

The actuarial value of assets is equal to the market value, adjusted for the five-year phase in of the actual investment return in excess of (or less than) the expected investment return on a market value of asset basis. This five-year phase in begins with the investment experience for the fiscal year ending June 30, 2016. The actual return is calculated net of investment expenses, and the expected investment return is equal to the assumed investment return rate multiplied by the prior year's market value of assets, adjusted for contributions, benefits paid, and refunds.

Actuarial Cost Method

The Entry Age Normal actuarial cost method allocates the System's actuarial present value of future benefits to various periods based upon service. The portion of the present value of future benefits allocated to years of service prior to the valuation date is the actuarial accrued liability, and the portion allocated to years following the valuation date is the present value of future normal costs. The normal cost is determined for each active member as the level dollar amount necessary to fully fund the expected benefits to be earned over the career of each individual active member. The normal cost is partially funded with active member contributions with the remainder funded by employer contributions.

An unfunded accrued liability exists in the amount equal to the excess of accrued liability over valuation assets. The amortization period of the System is the number of years required to fully amortize the unfunded accrued liability, on an actuarial value of asset basis, with the expected amount of employer contributions in excess of the employers' portion of the normal cost.

Note, the principle financial measurement calculations in this actuarial valuation, which include the unfunded actuarial accrued liability, funded ratio, contribution rates, and funding period, are based on an actuarial value of assets (smoothed value) basis. The actuarial value of assets is a calculated asset value which may be greater than or less than the market value of assets and is used to dampen some of

the volatility in the market value of assets. As a result, many of these measures would be different if they were determined on a market value of assets basis.

Future Cost-of-Living Increases

No increases are assumed.

Payroll Growth Rate

None assumed.

Other Assumptions

- 1. The normal cost is increased by \$15,000 to account for administrative expenses that are paid with plan assets.
- 2. Percent married: 100 percent of active members are assumed to be married.
- 3. Age difference: Males are assumed to be four years older than their spouses.
- 4. Percent electing annuity on death (when eligible): All of the spouses of vested, married participants are assumed to elect an immediate life annuity.
- 5. Inactive Population: All non-vested members are assumed to take an immediate refund. Members with a vested benefit are assumed to elect a refund or a deferred benefit commencing at age 60, whichever is more valuable at the valuation date.
- 6. It is assumed there will be no recoveries once disabled.
- 7. Decrement timing: Decrements of all types are assumed to occur mid-year.
- 8. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
- 9. Benefit Service: All active and special contributing members are assumed to accrue one year of eligibility service each year.

Participant Data

Participant data was securely supplied in electronic text files. There were separate files for (i) active and inactive members, and (ii) members and beneficiaries receiving benefits.

The data for active members included birth date, gender, service with the current city and total vesting service, salary, and employee contribution account balances. For retired members and beneficiaries, the data included date of birth, gender, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, and form of payment code.

Salary supplied for the current year was based on the annualized earnings for the year preceding the valuation date. Assumptions were made to correct for missing or inconsistent data. These had no material impact on the results presented.

General Assembly Retirement System Development of Actuarial Value of Assets

(Amounts expressed in thousands)

					July	1, 201 6
1.	Actuarial value of assets at	beginr	ning of year		\$	37,312
2.	Market value of assets at b	eginniı	ng of year		\$	32,482
3.	Net new investments					
	a. Contributions				\$	4,793
	b. Disbursements ¹					(6,803)
	c. Subtotal					(2,010)
4.	Market value of assets at e		\$	30,188		
5.	Net earnings (Item 4 Iter	n 2 It	em 3.c.)		\$	(284)
6.	Assumed investment return	n rate f	or fiscal year			7.50%
7.	Expected return				\$	2,361
8.	8. Excess/(shortfall) return (Item 5 Item 7.)					(2,645)
9.	Excess return on assets as	of June	30, 2016:			
	Fiscal Year		Excess	Percent	D	eferred
	Ending June 30,	1	<u>Return</u>	<u>Deferred</u>	<u>A</u>	mount
	a. 2016	\$	(2,645)	80%	\$	(2,116)
	b. 2015		(6,037)	60%		(3,622)
	c. 2014		N/A	40%		N/A
	d. 2013		N/A	20%		N/A
	e. 2012		N/A	0%		N/A
	f. Total				\$	(5,738)
10.	. Actuarial value of assets as	of Jun	e 30, 2016 (Ite	m 4 Item 9.f)	\$	35,926
11.	Expected actuarial value as	of Jun	e 30, 2016		\$	38,025
12.	12. Asset gain (loss) for year (Item 10 Item 11.)					(2,099)
13.	. Asset gain (loss) as % of th	e actua	rial value of as	sets		(5.8%)
14.	14. Ratio of actuarial value to market value					119.0%

¹For the year ending June 30, 2016, the investment return assumption was net of administration and investment expenses. Beginning July 1, 2016, the investment return assumption is only net of investment expenses.

Judges and Solicitors Retirement System Summary of Actuarial Methods and Assumptions

Through fiscal year 2017, the PEBA Board and the State Fiscal Accountability Authority (SFAA) were responsible for adopting all actuarial methods and assumptions used in the annual actuarial valuations, except for the investment rate of return, based on recommendations from the consulting actuary. Pursuant to state statute, the annual assumed rate of return was established as 7.50 percent by the SC General Assembly. South Carolina State Statute also requires that an experience analysis that reviews the economic and demographic assumptions be performed every five years. The most recent experience analysis was performed for the five year period ended July 1, 2015, at which time the PEBA Board and SFAA adopted a number of changes in the actuarial assumptions that were utilized beginning with the July 1, 2016 annual valuations. The experience study also recommended reducing the long-term investment rate of return assumption; however, because the prescribed assumption was set in state statute by the General Assembly, changing the rate required legislative action. The General Assembly has since passed the Retirement Systems Funding and Administration Act of 2017 which changes responsibilities, no longer requiring SFAA's approval for the implementation of PEBA policy decisions and actuarial assumptions. As part of this Act, the General Assembly also lowered the annual assumed rate of return to 7.25 percent beginning with the July 1, 2017 annual valuations. The assumed rate of return will expire July 1, 2021, and every four years thereafter. PEBA must propose an annual rate of return every four years, which will become effective if the General Assembly fails to enact a rate of return.

Following is a summary of the actuarial assumptions and methods used in the July 1, 2016 valuation of the South Carolina Retirement System for funding purposes and financial reporting purposes.

Investment Rate of Return

The assumed annual investment rate of return of 7.50 percent net of investment and administrative expenses is composed of a 2.25 percent inflation component and a 5.25 percent real rate of return, net of investment and administration expenses.

The annual investment return assumption is prescribed in Section 9-16-335 of the South Carolina Code of Laws and as described above, the Retirement System Funding and Administration Act of 2017 lowered the assumed annual rate of return from 7.50 percent to 7.25 percent, effective July 1, 2017.

Rates of Annual Salary Increase

Rates of salary are assumed to increase at an annual rate of 2.75 percent.

Judges and Solicitors Retirement System Active Member Decrement Rates

a. Assumed rates of service retirement are shown in the following table. In addition to the rates in the table below, all participants are assumed to retire upon reaching the mandatory retirement age of 72.

Service Based Retirement Rates

Years of		
Service	Male	Female
15-19	10.00%	10.00%
20-24	40.00%	40.00%
25-31	15.00%	15.00%
32+	100.00%	100.00%

Note: Retirement rate will be 100% at 31 years of service for solicitors.

 An abbreviated table with the assumed rates of disability incidence and pre-retirement mortality is shown below. The pre-retirement mortality assumption is based upon the RP-2014 Mortality Table for Employees with applicable multipliers to better reflect anticipated experience and provide margin for future improvement in mortality.

Disability Rates/Pre-Retirement Mortality

	Disability Incidence Rates		Pre-Retireme	ent Mortality
Age	Male	Female	Male	Female
25	0.0419%	0.0458%	0.0460%	0.0147%
30	0.0629%	0.0616%	0.0429%	0.0185%
35	0.0838%	0.0616%	0.0497%	0.0243%
40	0.1572%	0.1074%	0.0597%	0.0337%
45	0.2620%	0.2200%	0.0924%	0.0558%
50	0.4192%	0.3520%	0.1602%	0.0937%
55	0.6812%	0.5720%	0.2649%	0.1422%
60	1.0480%	0.8800%	0.4454%	0.2076%
Multiplier	105%	88%	95%	85%

Note: The multiplier has been applied to the decrement in the illustrative table.

c. There is no active employment withdrawal assumption.

Judges and Solicitors Retirement System Post Retirement Mortality

a. Healthy retirees and beneficiaries – The 2016 Public Retirees of South Carolina Mortality Table for Males and the 2016 Public Retirees of South Carolina Mortality Table for Females, both projected used the AA projection table from the year 2016 with multipliers based on plan experience. The following are sample rates:

Healthy Annuitant Mortality Rates Before Projection

Age	Male	Female
50	0.1875%	0.1284%
55	0.2949%	0.2177%
60	0.5394%	0.3765%
65	0.9382%	0.5230%
70	1.4461%	0.8511%
75	2.5019%	1.6363%
80	4.6454%	3.2910%
85	8.4266%	6.2277%
90	14.6319%	10.9026%
Multiplier	92%	98%

Note: The multiplier has been applied to the decrement in the illustrative table.

The following table provides the life expectancy for individuals retiring in future years based on the assumption with full generational projection.

Life Expectancy for an Age 65 Retiree in Years

	Year of Retirement					
Gender	2020	2025	2030	2035		
Male	21.2	21.5	21.9	22.2		
Female	23.6	23.8	24.0	24.1		

b. A separate table of mortality rates is used for disabled retirees based on the RP-2014 Disabled Mortality table projected using the AA projection table from the year 2016 and with multipliers based on plan experience. The following are sample rates:

Judges and Solicitors Retirement System Disabled Annuitant Mortality Rates

Age	Male	Female
50	2.5494%	1.4884%
55	2.9211%	1.8099%
60	3.3255%	2.1249%
65	3.9606%	2.6075%
70	5.0433%	3.5254%
75	6.7859%	5.1306%
80	9.5770%	7.6295%
85	14.1629%	11.3025%
90	21.6256%	16.5815%
Multiplier	125%	125%

Note: The multiplier has been applied to the decrement in the illustrative table.

Asset Valuation Method

The actuarial value of assets is equal to the market value, adjusted for the five-year phase in of the actual investment return in excess of (or less than) the expected investment return on a market value of asset basis. This five-year phase in begins with the investment experience for the fiscal year ending June 30, 2016. The actual return is calculated net of investment expenses, and the expected investment return is equal to the assumed investment return rate multiplied by the prior year's market value of assets, adjusted for contributions, benefits paid, and refunds.

Actuarial Cost Method

The Entry Age Normal actuarial cost method allocates the System's actuarial present value of future benefits to various periods based upon service. The portion of the present value of future benefits allocated to years of service prior to the valuation date is the actuarial accrued liability, and the portion allocated to years following the valuation date is the present value of future normal costs. The normal cost is determined for each active member as the level percent of payroll necessary to fully fund the expected benefits to be earned over the career of each individual active member. The normal cost is partially funded with active member contributions with the remainder funded by employer contributions.

An unfunded accrued liability exists in the amount equal to the excess of accrued liability over valuation assets. The amortization period of the System is the number of years required to fully amortize the unfunded accrued liability, on an actuarial value of asset basis, with the expected amount of employer contributions in excess of the employers' portion of the normal cost.

The calculation of the amortization period takes into account scheduled increases to contribution rates applicable to future years and payroll growth. Also, the calculation of the amortization period reflects additional

contributions the System receives with respect to members in DROP and who are retired-in-place. These contributions are assumed to grow at the same payroll growth rate as for active employees. It is assumed that amortization payments are made monthly at the end of the month.

Note, the principle financial measurement calculations in this actuarial valuation, which include the unfunded actuarial accrued liability, funded ratio, contribution rates, and funding period, are based on an actuarial value of assets (smoothed value) basis. The actuarial value of assets is a calculated asset value which may be greater than or less than the market value of assets and is used to dampen some of the volatility in the market value of assets. As a result, many of these measures would be different if they were determined on a market value of assets basis.

Future Cost-of-Living Increases

Future benefits are assumed to increase at an annual rate of 2.75 percent.

Payroll Growth Rate

The total annual payroll of active members (including DROP and RIP participants) is assumed to increase at an annual rate of 2.75 percent. This rate represents the underlying expected annual rate of wage inflation and does not anticipate increases in the number of members.

Other Assumptions

- 1. The normal cost rate is increased by 0.12% to account for administrative expenses that are paid with plan assets.
- 2. Percent married: 95 percent of male and female employees are assumed to be married.
- 3. Age difference: Males are assumed to be four years older than their spouses.
- 4. Percent electing annuity on death (when eligible): All of the spouses of vested married participants are assumed to elect an immediate life annuity.
- 5. Inactive Population: All non-vested members are assumed to take an immediate refund. Members with a vested benefit are assumed to elect a deferred benefit commencing at their earliest possible commencement age.
- 6. There will be no recoveries once disabled.
- 7. Decrement timing: Decrements of all types are assumed to occur mid-year.
- 8. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
- 9. Benefit Service: All active members are assumed to accrue one year of eligibility service each year.

Participant Data

Participant data was securely supplied in electronic text files. There were separate files for (i) active and inactive members, and (ii) members and beneficiaries receiving benefits.

The data for active members included birth date, gender, service with the current city and total vesting service, salary, and employee contribution account balances. For retired members and beneficiaries, the data included date of birth, gender, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, and form of payment code.

Salary supplied for the current year was based on the annualized earnings for the year preceding the valuation date. Assumptions were made to correct for missing or inconsistent data. These had no material impact on the results presented.

Judges and Solicitors Retirement System Development of Actuarial Value of Assets

(Amounts expressed in thousands)

		V			Ju	ly 1, 2016
1.	Actuarial value of assets a	t begi	nning of year		\$	157,983
2.	. Market value of assets at beginning of year					146,353
3.	Net new investments					
	a. Contributions	\$	12,505			
	b. Disbursements ¹		(17,195)			
	c. Subtotal					(4,690)
4.	Market value of assets at	end of	f year		\$	140,717
5.	Net earnings (Item 4 Ite	m 2	Item 3.c.)		\$	(946)
6.	Assumed investment retu	rn rate	e for fiscal year			7.50%
7.	Expected return				\$	10,801
8.	8. Excess/(shortfall) return (Item 5 Item 7.)					(11,747)
9.	Excess return on assets as	of Jur	ne 30, 2016 :			
	Fiscal Year		Excess	Percent		eferred
	Ending June 30,		<u>Return</u>	<u>Deferred</u>	<u> </u>	<u>lmount</u>
	a. 2016	\$	(11,747)	80%	\$	(9,398)
	b. 2015		(14,537)	60%		(8,722)
	c. 2014		N/A	40%		N/A
	d. 2013		N/A	20%		N/A
	e. 2012		N/A	0%		N/A
	f. Total				\$	(18,120)
10.	10. Actuarial value of assets as of June 30, 2016 (Item 4 Item 9.f)					158,837
11.	11. Expected actuarial value as of June 30, 2016					164,966
12.	12. Asset gain (loss) for year (Item 10 Item 11.)					(6,129)
13.	Asset gain (loss) as % of the	ne actı	uarial value of as	ssets		(3.9%)
14.	4. Ratio of actuarial value to market value					112.9%

¹For the year ending June 30, 2016, the investment return assumption was net of administration and investment expenses. Beginning July 1, 2016, the investment return assumption is only net of investment expenses.

South Carolina National Guard

Supplemental Retirement Plan

Summary of Actuarial Methods and Assumptions

Through fiscal year 2017, the PEBA Board and the State Fiscal Accountability Authority (SFAA) were responsible for adopting all actuarial methods and assumptions used in the annual actuarial valuations, except for the investment rate of return, based on recommendations from the consulting actuary. Pursuant to state statute, the annual assumed rate of return was established as 7.50 percent by the SC General Assembly. South Carolina State Statute also requires that an experience analysis that reviews the economic and demographic assumptions be performed every five years. The most recent experience analysis was performed for the five year period ended July 1, 2015, at which time the PEBA Board and SFAA adopted a number of changes in the actuarial assumptions that were utilized beginning with the July 1, 2016 annual valuations. The experience study also recommended reducing the long-term investment rate of return assumption; however, because the prescribed assumption was set in state statute by the General Assembly, changing the rate required legislative action. The General Assembly has since passed the Retirement Systems Funding and Administration Act of 2017 which changes responsibilities, no longer requiring SFAA's approval for the implementation of PEBA policy decisions and actuarial assumptions. As part of this Act, the General Assembly also lowered the annual assumed rate of return to 7.25 percent beginning with the July 1, 2017 annual valuations. The assumed rate of return will expire July 1, 2021, and every four years thereafter. PEBA must propose an annual rate of return every four years, which will become effective if the General Assembly fails to enact a rate of return.

Following is a summary of the actuarial assumptions and methods used in the July 1, 2016 valuation of the South Carolina Retirement System for funding purposes and financial reporting purposes.

Investment Rate of Return

The assumed annual investment rate of return of 7.50 percent net of investment and administrative expenses is composed of a 2.25 percent inflation component and a 5.25 percent real rate of return, net of investment and administration expenses.

The annual investment return assumption is prescribed in Section 9-16-335 of the South Carolina Code of Laws and as described above, the Retirement System Funding and Administration Act of 2017 lowered the assumed annual rate of return from 7.50 percent to 7.25 percent, effective July 1, 2017.

Rates of Annual Salary Increase

No increases in salary are assumed. The benefit is not related to pay.

South Carolina National Guard Supplemental Retirement Plan Active Member Decrement Rates

a. Assumed rates of service retirement are shown in the following table. Members who retire prior to age 60 are assumed to defer retirement benefits until age 60.

Age and Service Based Retirement Rates

	Years of Service					
Age	20 – 24	25 – 29	30 +			
Age<60	2.5%	5.0%	100.00%			
Age>59	10.00%	100.0%	100.00%			

b. An abbreviated table with the assumed rates of disability and mortality while employed is shown below. There is no active employment withdrawal assumption.

Disability Rates/Pre-Retirement Mortality

	Disabili	ty Rates	Pre-Retirem	ent Mortality
Age	Male	Female	Male	Female
25	0.1740%	0.1740%	0.0460%	0.0164%
30	0.2320%	0.2320%	0.0429%	0.0207%
35	0.4350%	0.4350%	0.0497%	0.0272%
40	0.5800%	0.5800%	0.0597%	0.0376%
45	0.8700%	0.8700%	0.0924%	0.0624%
50	1.0875%	1.0875%	0.1602%	0.1047%
55	0.0000%	0.0000%	0.2649%	0.1589%
60	0.0000%	0.0000%	0.4454%	0.2320%
Multiplier	145.0%	145.0%	95.0%	95.0%

 ${\it Note: The multiplier has been applied to the decrement in the illustrative table.}$

South Carolina National Guard Supplemental Retirement Plan Post Retirement Mortality

Retirees and beneficiaries – The 2016 Public Retirees of South Carolina Mortality Table for Males and the 2016 Public Retirees of South Carolina Mortality Table for Females projected using Scale AA projection table from the year 2016 and multipliers based on plan experience. The following are sample rates:

Annuitant Mortality Rates Before Projection

Age	Male	Female
50	0.2548%	0.1454%
55	0.4006%	0.2465%
60	0.7329%	0.4265%
65	1.2748%	0.5924%
70	1.9648%	0.9640%
75	3.3994%	1.8534%
80	6.3116%	3.7276%
85	11.4493%	7.0538%
90	19.8803%	12.3489%
Multiplier	125%	111%

Note: The multiplier has been applied to the decrement in the illustrative table.

The following table provides the life expectancy for individuals retiring in future years based on the assumption with full generational projection.

Life Expectancy for an Age 65 Retiree in Years

	Year of Retirement				
Gender	2020	2025	2030	2035	
Male	18.9	19.3	19.7	20.0	
Female	22.7	22.8	23.0	23.2	

Asset Valuation Method

The actuarial value of assets is equal to the market value, adjusted for the five-year phase in of the actual investment return in excess of (or less than) the expected investment return on a market value of asset basis. This five-year phase in begins with the investment experience for the fiscal year ending June 30, 2016. The actual return is calculated net of investment expenses, and the expected investment return is equal to the assumed investment return rate multiplied by the prior year's market value of assets, adjusted for contributions, benefits paid, and refunds.

Actuarial Cost Method

The Entry Age Normal actuarial cost method allocates the System's actuarial present value of future benefits to various periods based upon service. The portion of the present value of future benefits allocated to years of service prior to the valuation date is the actuarial accrued liability, and the portion allocated to years following the valuation date is the present value of future normal costs. The normal cost is determined for each active member as the level dollar amount necessary to fully fund the

expected benefits to be earned over the career of each individual active member. The normal cost is partially funded with active member contributions with the remainder funded by employer contributions.

An unfunded accrued liability exists in the amount equal to the excess of accrued liability over valuation assets. The amortization period of the System is the number of years required to fully amortize the unfunded accrued liability, on an actuarial value of asset basis, with the expected amount of employer contributions in excess of the employers' portion of the normal cost.

Note, the principle financial measurement calculations in this actuarial valuation, which include the unfunded actuarial accrued liability, funded ratio, contribution rates, and funding period, are based on an actuarial value of assets (smoothed value) basis. The actuarial value of assets is a calculated asset value which may be greater than or less than the market value of assets and is used to dampen some of the volatility in the market value of assets. As a result, many of these measures would be different if they were determined on a market value of assets basis.

Future Cost-of-Living Increases

No increases are assumed.

Payroll Growth Rate

None assumed.

Other Assumptions

- 1. The normal cost includes \$15,000 for plan incurred administrative expenses.
- 2. There is not a marriage assumption.
- 3. Decrement timing: Decrements of all types are assumed to occur mid-year.
- 4. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.

Participant Data

Participant data was securely supplied in electronic text files. There were separate files for (i) active, and (ii) members and beneficiaries receiving benefits.

The data for active members included birth date, gender, total military service, and total South Carolina National Guard service. For retired members and beneficiaries, the data included date of birth, gender, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, and form of payment code.

Assumptions were made to correct for missing or inconsistent data. These had no material impact on the results presented.

South Carolina National Guard Supplemental Retirement Plan Development of Actuarial Value of Assets

(Amounts expressed in thousands)

				Jul	y 1, 2016
1.	Actuarial value of assets at I	peginning of yea	r	\$	25,727
2.	Market value of assets at be	ginning of year		\$	23,202
3.	Net new investments				
	a. Contributions			\$	4,591
	b. Disbursements ¹			\$	(4,310)
	c. Subtotal				281
4.	Market value of assets at en	d of year		\$	23,350
5.	Net earnings (Item 4 Item	2 Item 3.c.)		\$	(133)
6.	Assumed investment return		7.50%		
7.	Expected return	\$	1,751		
8.	Excess/(shortfall) return (Ite	\$	(1,884)		
9.	Excess return on assets as o	f June 30, 2016:			
	Fiscal Year	Excess	Percent	Deferred	
	Ending June 30,	Return	<u>Deferred</u>	<u>A</u>	mount_
	a. 2016	\$ (1,884)	80%	\$	(1,507)
	b. 2015	(3,156)	60%		(1,894)
	c. 2014	N/A	40%		N/A
	d. 2013	N/A	20%		N/A
	e. 2012	N/A	0%		N/A
	f. Total			\$	(3,401)
10.	Actuarial value of assets as	\$	26,751		
11.	Expected actuarial value as	\$	27,948		
12.	Asset gain (loss) for year (Ite	em 10 Item 11.)	\$	(1,197)
13.	Asset gain (loss) as % of the	actuarial value o	of assets		(4.50%)
14.	Ratio of actuarial value to m		114.6%		

¹For the year ending June 30, 2016, the investment return assumption was net of administration and investment expenses. Beginning July 1, 2016, the investment return assumption is only net of investment expenses.

South Carolina Retirement System Summary of Historical Active Membership

		Active	Members		Covered P	ayroll ¹	Average	Annual Pay		
	Number of		Percent Increase/	A	mount in	Percent Increase/		Percent Increase/	Average	Average
July 1,	Employers ²	Number	(Decrease)	T	housands	(Decrease)	Amount	(Decrease)	Age	Service
2016	812	190,923	1.9%	\$	8,213,042	5.8%	\$ 43,018	3.77%	45	10
2015	816	187,318	1.1%		7,765,588	3.0%	41,457	1.86%	45	10
2014	810	185,265	0.3%		7,539,996	1.4%	40,698	1.10%	45	10
2013	808	184,690	(0.6%)		7,434,820	1.1%	40,256	1.65%	45	10
2012	806	185,748	(1.0%)		7,356,231	(4.3%)	39,603	(3.35%)	45	10
2011	803	187,611	(1.4%)		7,687,558	(1.1%)	40,976	0.33%	45	11
2010	800	190,239	(1.1%)		7,769,820	(4.7%)	40,842	1.20%	45	10
2009	781	192,319	(0.3%)		7,761,808	2.7%	40,359	2.95%	45	10
2008	776	192,820	2.6%		7,559,172	6.6%	39,203	3.89%	45	10
2007	777	187,968	2.0%		7,093,181	5.3%	37,736	3.28%	45	10

¹Covered payroll is the annualized, projected compensation for the following year and does not include payroll attributable to members in State ORP, TERI, or working retirees.

Police Officers Retirement System Summary of Historical Active Membership

		Active	Members	Covered P	ayroll ¹	Average A	nnual Pay		
July 1,	Number of Employers ²	Number	Percent Increase/ (Decrease)	Amount in Thousands	Percent Increase/ (Decrease)	Amount	Percent Increase/ (Decrease)	Average Age	Average Service
2016	313	26,651	0.3%	\$ 1,187,195	7.4%	\$ 44,546	7.06%	39.5	9.8
2015	312	26,575	(0.5%)	1,105,703	2.7%	41,607	3.15%	39.4	9.7
2014	310	26,697	1.9%	1,076,885	4.2%	40,337	2.27%	39.5	9.5
2013	356	26,194	0.1%	1,033,189	1.4%	39,444	1.31%	39.5	9.4
2012	325	26,179	(1.8%)	1,019,241	(6.3%)	38,934	(4.60%)	39.6	9.5
2011	356	26,650	0.3%	1,087,587	1.0%	40,810	0.72%	39.8	9.6
2010	322	26,568	(0.1%)	1,076,467	(0.7%)	40,517	(0.60%)	39.8	8.7
2009	318	26,598	0.6%	1,084,154	2.2%	40,761	1.55%	39.6	8.4
2008	313	26,427	3.0%	1,060,747	6.8%	40,139	3.68%	N/A	N/A
2007	313	25,645	3.4%	992,849	6.6%	38,715	3.09%	N/A	N/A

¹Covered payroll does not include payroll attributable to working retirees.

²Number of employers that cover employees eligible for SCRS benefits and that contributed to the system during the last fiscal year. Although the state is considered the primary government and includes all state agencies as a single employer, for purposes of this schedule, each state agency is reported separately and counted as an employer.

²Number of employers that cover employees eligible for PORS benefits and that contributed to the system during the last fiscal year. Although the state is considered the primary government and includes all state agencies as a single employer, for purposes of this schedule, each state agency is reported separately and counted as an employer.

General Assembly Retirement System Summary of Historical Active Membership

		Active	Members	 Covered	Payroll ¹		Average A	nnual Pay		
July 1,	Number of Employers ²	Number	Percent Increase/ (Decrease)	ount in	Percent Increase/ (Decrease)	Α	mount	Percent Increase/ (Decrease)	Average Age	Average Service
2016	2	102	(1.9%)	\$ 2,316	(0.9%)	\$	22,710	1.0%	56.4	14.3
2015	2	104	(9.6%)	2,338	(10.1%)		22,481	(0.6%)	55.6	13.4
2014	2	115	(3.4%)	2,601	(3.2%)		22,617	0.1%	54.7	12.4
2013	2	119	(30.0%)	2,688	(30.3%)		22,588	(0.4%)	53.7	11.8
2012	2	170	0.0%	3,854	0.0%		22,671	0.0%	53.3	10.8
2011	2	170	0.0%	3,854	0.0%		22,671	0.0%	52.7	9.8
2010	2	170	0.0%	3,854	0.0%		22,671	0.0%	52.3	10.2
2009	2	170	0.0%	3,854	0.0%		22,671	0.0%	51.4	9.0
2008	2	170	0.0%	3,854	0.0%		22,671	0.0%	N/A	N/A
2007	2	170	0.0%	3,854	0.0%		22,671	0.0%	N/A	N/A

¹For valuations prior to 2013 the annual covered payroll included the payroll of filled and unfilled positions.

Judges and Solicitors Retirement System Summary of Historical Active Membership

	Active M	embers	Cover	ed Payroll	Average Annual Pay			
July 1,	Number of Employers ²	Number ¹		ount in usands ¹	Amount	Percent Increase/ (Decrease)	Average Age	Average Service
2016	3	157	\$	21,958	\$ 139,861	4.56%	57.2	15.4
2015	3	157		21,267	133,756	0.28%	56.5	15.1
2014	3	153		20,815	136,048	2.00%	56.3	15.1
2013	3	153		20,407	133,381	(0.07%)	56.0	15.5
2012	3	144		19,221	133,476	3.00%	55.6	15.1
2011	3	144		18,661	129,590	0.00%	55.1	14.3
2010	3	144		18,661	129,590	0.00%	54.9	15.0
2009	3	144		18,661	129,590	0.00%	55.0	15.4
2008	3	144		18,661	129,590	1.10%	54	15
2007	2	128		16,407	128,176	3.00%	55	19

¹Includes filled and unfilled positions and members in DROP or retired-in-place.

²Number of employers that cover employees eligible for GARS benefits and that contributed to the system during the last fiscal year. Although the state is considered the primary government and includes all state agencies as a single employer, for purposes of this schedule, each state agency is reported separately and counted as an employer.

²Number of employers that cover employees eligible for JSRS benefits and that contributed to the system during the last fiscal year. Although the state is considered the primary government and includes all state agencies as a single employer, for purposes of this schedule, each state agency is reported separately and counted as an employer.

South Carolina National Guard Supplemental Retirement Plan Summary of Historical Active Membership

Percent Increase in

July 1,	Number of Employers	Number of Members	Annual Payroll ¹	Average Pay ¹	Average Pay ¹	Average Age	Average Service
2016	1	12,253	N/A	N/A	N/A	32.2	9.7
2015	1	12,165	N/A	N/A	N/A	32.2	9.7
2014	1	12,221	N/A	N/A	N/A	32.1	9.7
2013	1	11,997	N/A	N/A	N/A	32.0	9.5
2012	1	12,041	N/A	N/A	N/A	31.8	9.2
2011	1	12,271	N/A	N/A	N/A	32.0	9.3
2010	1	12,445	N/A	N/A	N/A	31.9	9.0
2009	1	12,599	N/A	N/A	N/A	31.7	8.7
2008	1	12,559	N/A	N/A	N/A	31	8
2007 ²	1	11,076	N/A	N/A	N/A	32	10

¹Not applicable as this is a non-contributory plan.

²Effective January 1, 2007, guardsmen who became members of the South Carolina National Guard after June 30, 1993, became eligible for membership.

South Carolina Retirement System Summary of Active Membership Data

As of July 1, 2016 (Dollar amounts expressed in thousands)

Annual

Group	Number ¹	Con	npensation ²
State employees	51,018	\$	2,321,521
Public school employees	84,916		3,357,550
Other agency employees	54,989		2,211,836
Total	_190,923	\$	7,890,907

¹In addition, there are 169,806 inactive members with contributions still in the system. The results of the valuation were adjusted to take these members into account.

Police Officers Retirement System Summary of Active Membership Data

As of July 1, 2016 (Dollar amounts expressed in thousands)

			Annual
Group	Number ¹	Com	pensation ²
State employees	9,134	\$	361,065
Public school employees	0		0
Other agency employees	17,517		775,337
Total	26,651	\$	1,136,402

¹In addition, there are 15,001 inactive members with contributions still in the system. The results of the valuation were adjusted to take these members into account.

²Total compensation is the annualized pay for the prior year.

²Total compensation is the annualized pay for the prior year.

General Assembly Retirement System Summary of Active Membership Data

As of July 1, 2016 (Dollar amounts expressed in thousands)

	Annual			
Number ¹	Com	pensation		
102	\$	2,316		

¹There are 32 inactive members with contributions still in the system, and there are 17 special contributors. The results of the valuation were adjusted to take these members into account. Numbers shown above include members receiving retirement benefits while continuing in office.

Judges and Solicitors Retirement System Summary of Active Membership Data

As of July 1, 2016 (Dollar amounts expressed in thousands)

	Annual			
Number ¹	Com	pensation		
157	\$	21,958		

¹The number of active members reflects the number of seats, including 23 participants who are either in the DROP or have retired in place and are receiving retirement benefits while continuing in office. There are two inactive members with contributions still in the system. The results of the valuation were adjusted to take these members into account.

South Carolina Retirement System Summary of Membership Data

			 July 1, 2016		July 1, 2015
1.	Sei	rvice retirees			
	a.	Number ¹	115,338		112,242
	b.	Total annual benefits	\$ 2,469,794,069	\$	2,391,772,188
	c.	Average annual benefits	\$ 21,414	\$	21,309
	d.	Average age at the valuation date	69.8		69.5
2.	Dis	sabled retirees			
	a.	Number	13,133		13,349
	b.	Total annual benefits	\$ 182,525,500	\$	183,766,967
	c.	Average annual benefits	\$ 13,898	\$	13,766
	d.	Average age at the valuation date	64.2		63.5
3.	Ве	neficiaries			
	a.	Number	9,384		9,049
	b.	Total annual benefits	\$ 114,143,577	\$	108,007,534
	c.	Average annual benefits	\$ 12,164	\$	11,936
	d.	Average age at the valuation date	67.7		67.6

¹Includes members in TERI and working retirees.

Police Officers Retirement System Summary of Membership Data

			 July 1, 2016	 July 1, 2015		
1.	Sei	rvice retirees				
	a.	Number	13,361	12,941		
	b.	Total annual benefits	\$ 276,148,284	\$ 265,095,859		
	c.	Average annual benefits	\$ 20,668	\$ 20,485		
	d.	Average age at the valuation date	64.9	64.6		
2.	Dis	sabled retirees				
	a.	Number	2,578	2,475		
	b.	Total annual benefits	\$ 53,142,503	\$ 50,548,301		
	c.	Average annual benefits	\$ 20,614	\$ 20,424		
	d.	Average age at the valuation date	54.8	54.5		
3.	Be	neficiaries				
	a.	Number	1,349	1,293		
	b.	Total annual benefits	\$ 16,583,402	\$ 15,684,378		
	c.	Average annual benefits	\$ 12,293	\$ 12,130		
	d.	Average age at the valuation date	67.7	67.5		

General Assembly Retirement System Summary of Membership Data

			Jı	uly 1, 2016	Ju	ıly 1, 2015
1.	Ser	vice retirees				
	a.	Number		279		281
	b.	Total annual benefits	\$	5,498,678	\$	5,510,955
	c.	Average annual benefits	\$	19,709	\$	19,612
	d.	Average age at the valuation date		73.5		72.6
2.	Dis	abled retirees				
	a.	Number		0		0
	b.	Total annual benefits	\$	0	\$	0
	c.	Average annual benefits	\$	0	\$	0
	d.	Average age at the valuation date		N/A		N/A
3.	Bei	neficiaries				
	a.	Number		79		81
	b.	Total annual benefits	\$	1,115,212	\$	1,154,786
	c.	Average annual benefits	\$	14,117	\$	14,257
	d.	Average age at the valuation date		76.9		77.7

Judges and Solicitors Retirement System Summary of Membership Data

			 uly 1, 2016	J	uly 1, 2015
1.	Sei	rvice retirees			
	a.	Number ¹	155		151
	b.	Total annual benefits	\$ 16,123,054	\$	15,075,781
	c.	Average annual benefits	\$ 104,020	\$	99,840
	d.	Average age at the valuation date	71.1		70.5
2.	Dis	abled retirees			
	a.	Number	0		0
	b.	Total annual benefits	\$ 0	\$	0
	c.	Average annual benefits	\$ 0	\$	0
	d.	Average age at the valuation date	N/A		N/A
3.	Bei	neficiaries			
	a.	Number	55		55
	b.	Total annual benefits	\$ 1,593,995	\$	1,586,613
	c.	Average annual benefits	\$ 28,982	\$	28,848
	d.	Average age at the valuation date	69.8		69.9

 $^{^{1}}$ Includes members in DROP and retired-in-place. It does not include unfilled positions.

South Carolina National Guard Supplemental Retirement Plan Summary of Membership Data

			Jı	ıly 1, 2016	Ju	ıly 1, 2015
1.	Act	tive members				
	a.	Males		9,998		9,967
	b.	Females		2,255		2,198
	c.	Total members		12,253		12,165
	d.	Average age		32.2		32.2
	e.	Average service		9.7		9.7
2.	Ve	sted inactive members				
	a.	Number		1,969		2,052
	b.	Total annual deferred benefits	\$	1,551,840	\$	1,611,900
	c.	Average annual deferred benefits	\$	788	\$	786
3.	Sei	rvice retirees				
	a.	Number		4,709		4,647
	b.	Total annual benefits	\$	4,296,660	\$	4,249,920
	c.	Average annual benefit	\$	912	\$	915
	d.	Average age		70.6		70.2

South Carolina Retirement System Schedule of Retirants Added to and Removed from Rolls¹

(Amounts except average allowance expressed in thousands)

	Added to Rolls ²		Removed from Rolls ³		Rolls End of the Year			
July 1,	Number	Annual Benefits	Number	Annual Benefits	Number	Annual Benefits	% Increase in Annual Benefit	Average Annual Benefit
2016	6,515	\$ 133,741	3,300	\$ 50,824	137,855	\$ 2,766,463	3.1%	\$ 20,068
2015	6,640	133,490	3,510	54,660	134,640	2,683,547	3.0%	19,931
2014	7,084	148,060	3,270	49,971	131,510	2,604,716	3.9%	19,806
2013	9,088	204,581	3,319	50,142	127,696	2,506,627	6.6%	19,630
2012	9,523	205,050	2,968	44,099	121,927	2,352,188	7.3%	19,292
2011	6,336	141,242	2,358	31,382	115,372	2,191,236	5.3%	18,993
2010	6,596	151,348	3,216	44,049	111,394	2,081,376	5.4%	18,685
2009	6,190	101,813	2,698	36,834	108,014	1,974,077	3.4%	18,276
2008	6,021	132,856	2,396	30,178	104,522	1,909,098	5.7%	18,265
2007	5,944	130,286	2,252	28,455	100,897	1,806,420	6.0%	17,904

¹Includes Teacher and Employee Retention Incentive (TERI) participants.

Police Officers Retirement System Schedule of Retirants Added to and Removed from Rolls

(Amounts except average allowance expressed in thousands)

	Added	to Rolls ²	Removed	from Rolls ³	Rolls End of the Year			
							% Increase	Average
		Annual		Annual		Annual	in Annual	Annual
July 1,	Number	Benefits	Number	Benefits	Number	Benefits	Benefit	Benefit
2016	928	\$ 19,940	349	\$ 5,394	17,288	\$ 345,874	4.4%	\$ 20,007
2015	968	19,767	362	6,076	16,709	331,329	4.3%	19,829
2014	818	16,881	332	5,650	16,103	317,638	3.7%	19,725
2013	1,278	27,584	314	5,106	15,617	306,407	7.9%	19,620
2012	1,566	34,086	271	4,143	14,653	283,929	11.8%	19,377
2011	1,042	22,580	250	2,970	13,358	253,986	8.4%	19,014
2010	943	21,877	327	5,000	12,566	234,376	7.8%	18,652
2009	931	17,937	267	3,879	11,950	217,499	6.9%	18,201
2008	779	17,458	194	2,691	11,286	203,441	7.8%	18,026
2007	772	16,474	205	2,745	10,701	188,674	7.8%	17,631

²Annual benefits added to rolls includes the benefit adjustments provided to continuing retirees.

²Annual benefits added to rolls includes the benefit adjustments provided to continuing retirees.

³The removed from rolls count does not include members who are replaced by beneficiaries

³The removed from rolls count does not include members who are replaced by beneficiaries

General Assembly Retirement System Schedule of Retirants Added to and Removed from Rolls

(Amounts except average allowance expressed in thousands)

	Added to Rolls ²		Removed from Rolls ³		Rolls End of the Year			
July 1,	Number	Annual Benefits	Number	Annual Benefits	Number	Annual Benefits	% Increase in Annual Benefit	Average Annual Benefit
2016	7	\$ 109	11	\$ 161	358	\$ 6,614	-0.8%	\$ 18,475
2015	15	262	8	193	362	6,666	1.1%	18,414
2014	12	200	20	358	355	6,596	-2.3%	18,581
2013	22	444	17	353	363	6,754	1.4%	18,606
2012	16	251	11	130	358	6,663	1.8%	18,611
2011	12	238	5	108	353	6,542	2.0%	18,534
2010	7	148	14	261	346	6,412	-1.7%	18,532
2009	26	505	15	266	353	6,525	3.8%	18,484
2008	19	337	10	134	342	6,286	3.3%	18,380
2007	18	321	2	13	333	6,083	5.3%	18,267

²Annual benefits added to rolls includes benefit adjustments for continuing retirees.

Judges and Solicitors Retirement System Schedule of Retirants Added to and Removed from Rolls¹

(Amounts except average allowance expressed in thousands)

	Added to Rolls ²		Removed from Rolls ³		Rolls End of the Year			
		Annual		Annual		Annual	% Increase in Annual	Average Annual
July 1,	Number	Benefits	Number	Benefits	Number	Benefits	Benefits	Benefits
2016	10	\$ 1,355	6	\$ 300	210	\$ 17,717	6.3%	\$ 84,367
2015	8	757	6	497	206	16,662	1.6%	80,883
2014	7	637	4	192	204	16,402	2.8%	80,402
2013	10	279	9	42	201	15,957	1.5%	79,388
2012	6	912	4	184	200	15,720	4.9%	78,600
2011	9	827	5	196	198	14,992	4.4%	75,717
2010	18	1,210	8	593	194	14,361	4.5%	74,025
2009	10	903	4	259	184	13,744	4.9%	74,696
2008	6	545	3	156	178	13,100	3.1%	73,596
2007	32	2,690	1	30	175	12,711	26.5%	72,634

¹Beginning July 1, 2007, includes participants who have retired in place.

³The removed from rolls count does not include members who are replaced by beneficiaries.

²Annual benefits added to rolls includes benefit adjustments for continuing retirees.

 $^{^3}$ The removed from rolls count does not include members who are replaced by beneficiaries.

South Carolina National Guard Supplemental Retirement Plan Schedule of Retirants Added to and Removed from Rolls

(Amounts except average allowance expressed in thousands)

	Added to Rolls		Removed	Removed from Rolls		Rolls End of the Year						
										% Increase		erage
		An	nual		Annual			Annual		in Annual	Ar	ınual
July 1,	Number	Bei	nefits	Number	Be	nefits	Number	Benefits		Benefit	Be	nefit
2016	195	\$	172	133	\$	125	4,709	\$	4,297	1.1%	\$	912
2015	155		142	136		122	4,647		4,250	0.5%		915
2014	195		165	108		103	4,628		4,230	1.5%		914
2013	244		211	122		116	4,541		4,168	2.3%		918
2012	259		228	92		87	4,419		4,073	3.6%		922
2011	399		351	98		93	4,252		3,932	7.0%		925
2010	267		237	101		99	3,951		3,674	3.9%		930
2009	378		335	85		83	3,785		3,536	7.7%		934
2008	364		331	76		75	3,492		3,284	8.5%		940
2007	362		329	61		58	3,204		3,028	9.8%		945

Schedule of Funding Progress¹

(Amounts expressed in thousands)

		Actuarial	Actuarial	Unfunded			
	Valuation	Value of	Accrued	Actuarial Accrued	Funded	Covered	UAAL as % of
SCRS	Date	Assets (AVA)	Liability (AAL)	Liability (UAAL)	Ratio	Payroll ²	Payroll
	2016	\$ 27,293,968	\$ 45,859,906	\$ 18,565,938	59.5%	\$ 8,213,042	226.1%
	2015	27,365,921	44,119,176	16,753,255	62.0%	7,765,588	215.7%
	2014	26,910,740	42,889,614	15,978,874	62.7%	7,539,996	211.9%
	2013	25,753,068	41,196,062	15,442,994	62.5%	7,434,820	207.7%
	2012	25,540,749	39,457,708	13,916,959	64.7%	7,356,231	189.2%
	2011	25,604,823	38,011,610	12,406,787	67.4%	7,687,558	161.4%
	2010	25,400,331	38,774,029	13,373,698	65.5%	7,769,820	172.1%
	2009	25,183,062	37,150,315	11,967,253	67.8%	7,761,808	154.2%
	2008	24,699,678	35,663,419	10,963,741	69.3%	7,559,172	145.0%
	2007	23,541,438	33,766,678	10,225,240	69.7%	7,093,181	144.2%
		Actuarial	Actuarial	Unfunded		Annual	
	Valuation	Value of	Accrued	Actuarial Accrued	Funded	Covered	UAAL as % of
PORS	Date	Assets (AVA)	Liability (AAL)	Liability (UAAL)	Ratio	Payroll ²	Payroll
	2016	\$ 4,354,853	\$ 6,567,397	\$ 2,212,544	66.3%	\$ 1,187,195	186.4%
	2015	4,266,794	6,162,095	1,895,301	69.2%	1,105,703	171.4%
	2014	4,105,308	5,905,828	1,800,520	69.5%	1,076,885	167.2%
	2013	3,922,041	5,663,756	1,741,715	69.2%	1,033,189	168.6%
	2012	3,808,934	5,357,492	1,548,558	71.1%	1,019,241	151.9%
	2011	3,728,241	5,122,501	1,394,260	72.8%	1,087,587	128.2%
	2010	3,612,700	4,850,457	1,237,757	74.5%	1,076,467	115.0%
	2009	3,482,220	4,564,111	1,081,891	76.3%	1,084,154	99.8%

¹Funding progress for July 1, 2011, valuation adjusted to reflect pension reform legislation in Act 278.

3,160,240

2007

Effective 7-1-2008, actuarial assumptions for SCRS were changed as a result of a 5 year experience study. Changes in the investment return assumptions were adopted by the Board for the 7-01-2008 valuation for all plans.

570,304

84.7%

992,849

57.4%

3,730,544

Effective 7-1-2011, actuarial assumptions were changed as a result of a 5 year experience study. The investment return assumption, inflation assumption, rate of salary increases, payroll growth assumption, post-retirement mortality assumption for all groups, retirement rates and termination rates were revised for both SCRS and PORS. The actuarial valuation of asset method was changed from one that recognized the difference between the expected and actual return on the market value of assets over a 10-year period, to a modified 5-year asset smoothing method for both SCRS and PORS. In addition, there were minor changes to the rates of disability incidence for SCRS.

Effective 7-1-2012, disability and retirement rates were updated to more appropriately reflect the anticipated plan experience as a result of the enactment of Act 278. Act 278 became law in June 2012, which resulted in substantial changes to the benefit provisions of both SCRS and PORS.

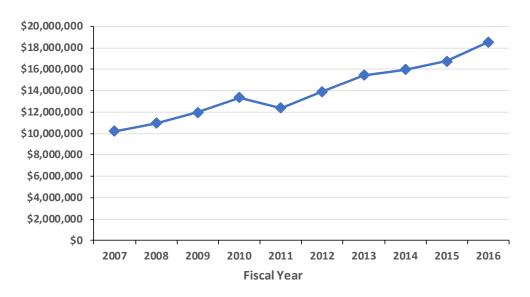
Effective 7-1-2016, actuarial assumptions were changed as a result of a 5 year experience study. The inflation assumption, rate of salary increases, payroll growth assumption, post-retirement mortality tables and pre-retirement mortality assumption were revised for both SCRS and PORS. The actuarial valuation of asset method was changed such that each year's investment gain or loss (determined on a market value of asset basis) is recognized over a closed five-year period at the rate of 20% per year for both SCRS and PORS. In addition, there were changes to the rates of withdrawal and retirement for SCRS and changes to the rates of retirement and disability for PORS

²Covered payroll does not include payroll attributable to members in State ORP, TERI or working retirees.

South Carolina Retirement System Funding Progress with Funded Ratios¹

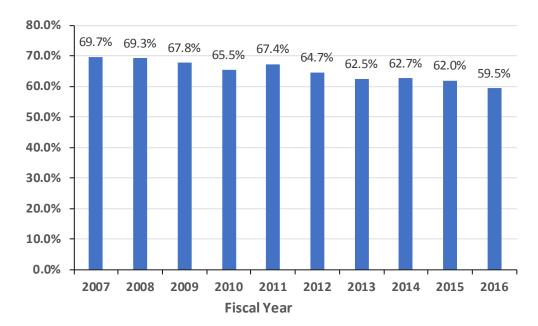
Unfunded Accrued Liabilities

(Amounts expressed in thousands)



Funded Ratios

(Actuarial assets as a percentage of actuarial accrued liabilities)

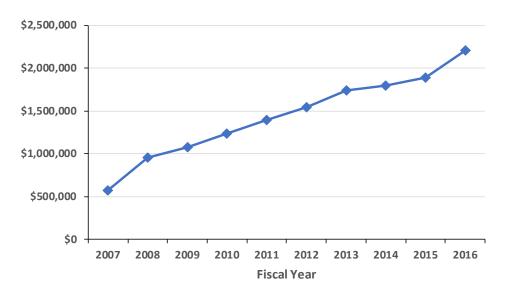


¹A 10-year schedule of actuarially determined and actual contributions can be found in the Required Supplementary Information portion of the Financial Section as part of the Schedule of Employers' Contributions.

Police Officers Retirement System Funding Progress with Funded Ratios¹

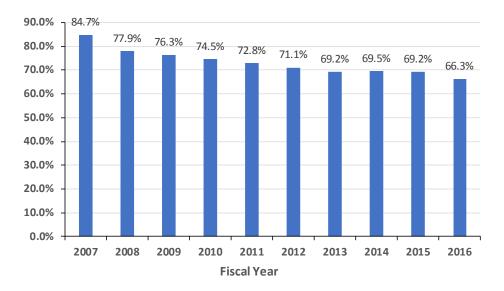
Unfunded Accrued Liabilities

(Amounts expressed in thousands)



Funded Ratios

(Actuarial assets as a percentage of actuarial accrued liabilities)



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Schedule of Funding Progress

(Amounts expressed in thousands)

GARS	Valuation Date	V	Actuarial Value of Assets (AVA)		Actuarial Accrued Liability (AAL)		ifunded rial Accrued lity (UAAL)	Funded Ratio	Annual Covered Payroll ¹		UAAL as % of Payroll	
	2016	\$	35,926	\$	74,996	\$	39,070	47.9%	\$	2,316	1,686.9%	
	2015		37,312		74,509		37,197	50.1%		2,338	1,591.0%	
	2014		37,646		74,514		36,868	50.5%		2,601	1,417.5%	
	2013		38,033		75,639		37,606	50.3%		2,688	1,399.0%	
	2012		39,233		74,332		35,099	52.8%		3,854	910.7%	
	2011		41,484		74,604		33,120	55.6%		3,854	859.4%	
	2010		43,712		68,671		24,959	63.7%		3,854	647.6%	
	2009		45,891		68,491		22,600	67.0%		3,854	586.4%	
	2008		47,189		69,122		21,933	68.3%		3,854	569.1%	
	2007		46,925		71,014		24,089	66.1%		3,854	625.0%	

¹For valuations prior to 2013, the annual covered payroll included the payroll of filled and unfilled positions.

		A	Actuarial Value of		Actuarial Accrued		nfunded	Annual				
	Valuation	\					rial Accrued	Funded	Covered		UAAL as %	
JSRS	Date	Ass	ets (AVA)	Liability (AAL)		Liabi	lity (UAAL)	Ratio	Payroll		of Payroll	
	2016	\$	158,837	\$	283,304	\$	124,467	56.1%	\$	21,958	566.8%	
	2015		157,983		269,675		111,692	58.6%		21,267	525.2%	
	2014		152,839		264,293		111,454	57.8%		20,815	535.4%	
	2013		147,648		256,988		109,340	57.5%		20,407	535.8%	
	2012		145,604		251,729		106,125	57.8%		19,221	552.1%	
	2011		144,927		243,514		98,587	59.5%		18,661	528.3%	
	2010		142,871		215,823		72,952	66.2%		18,661	390.9%	
	2009		141,797		214,363		72,566	66.1%		18,661	388.9%	
	2008		138,323		213,406		75,083	64.8%		18,661	402.4%	
	2007		132,990		229,388		96,398	58.0%		16,407	587.5%	

Changes in the investment return assumptions were adopted by the Board for the 7-01-2008 valuation for all plans.

Effective 7-1-2011, actuarial assumptions were changed as a result of a 5 year experience study. The investment return assumption, inflation assumption and the mortality assumption were revised for both GARS and JSRS. The actuarial valuation of asset method was changed from one that recognized the difference between the expected and actual return on the market value of assets over a 10-year period, to a modified 5-year asset smoothing method for both GARS and JSRS.

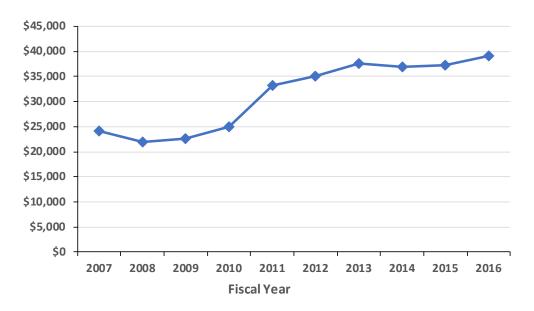
Effective 7-1-2012, Act 278 became law in June 2012 and increased the member contribution rate from 10 percent of pay to 11 percent of pay effective 1-1-2013 for GARS members. The legislation also closed GARS to new members. Newly elected members of the General Assembly on or after the general election of 2012 shall elect to become members of SCRS, State ORP or non-membership.

Effective 7-1-2016, actuarial assumptions were changed as a result of a 5 year experience study. The inflation assumption, post-retirement mortality tables and pre-retirement mortality assumption were revised for both GARS and JSRS. The actuarial valuation of asset method was changed such that each year's investment gain or loss (determined on a market value of asset basis) is recognized over a closed five-year period at the rate of 20% per year for both GARS and JSRS. In addition, there were changes to the disability rates for GARS and changes to the rate of salary increases, COLA, payroll growth assumption, rates of retirement and disability for JSRS.

General Assembly Retirement System Funding Progress with Funded Ratios¹

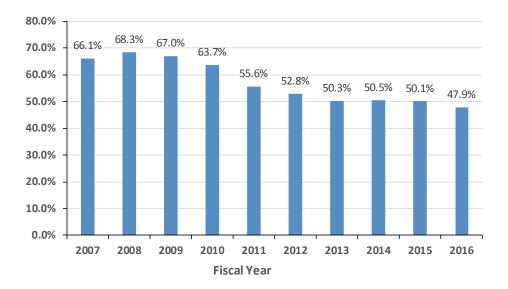
Unfunded Accrued Liabilities

(Amounts expressed in thousands)



Funded Ratios

(Actuarial assets as a percentage of actuarial accrued liabilities)

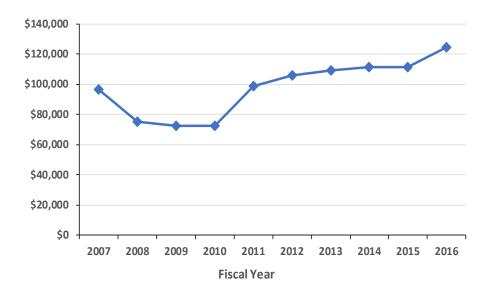


¹ A 10-year schedule of actuarially determined and actual contributions can be found in the Required Supplementary Information portion of the Financial Section as part of the Schedule of Employers' Contributions.

Judges and Solicitors Retirement System Funding Progress with Funded Ratios¹

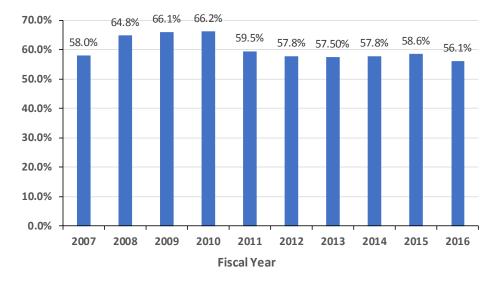
Unfunded Accrued Liabilities

(Amounts expressed in thousands)



Funded Ratios

(Actuarial assets as a percentage of actuarial accrued liabilities)



¹A 10-year schedule of actuarially determined and actual contributions can be found in the Required Supplementary Information portion of the Financial Section as part of the Schedule of Employers' Contributions.

Schedule of Funding Progress

(Amounts expressed in thousands)

SCNG	Valuation Date	V	Actuarial Value of Assets (AVA)		Actuarial Accrued Liability (AAL)		funded ial Accrued ity (UAAL)	Funded Ratio	Annual Covered Payroll	UAAL as % of Payroll	
	2016	\$	26,751	\$	64,445	\$	37,694	41.5%	N/A	N/A	
	2015		25,727		62,141		36,414	41.4%	N/A	N/A	
	2014		24,029		62,100		38,071	38.7%	N/A	N/A	
	2013		22,208		61,576		39,368	36.1%	N/A	N/A	
	2012		20,814		60,942		40,128	34.2%	N/A	N/A	
	2011		20,138		60,388		40,250	33.3%	N/A	N/A	
	2010		19,458		54,153		34,695	35.9%	N/A	N/A	
	2009		18,600		53,421		34,821	34.8%	N/A	N/A	
	2008		17,426		53,534		36,108	32.6%	N/A	N/A	
	2007		15,937		55,917		39,980	28.5%	N/A	N/A	

Changes in the investment return assumptions were adopted by the Board for the 7-01-2008 valuation for all plans.

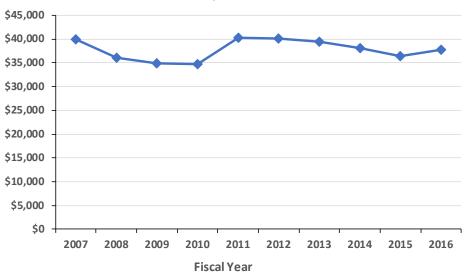
Effective 7-1-2011, actuarial assumptions were changed as a result of a 5 year experience study. The investment return assumption, inflation assumption and the mortality assumption were revised for SCNG. The actuarial valuation of asset method was changed from one that recognized the difference between the expected and actual return on the market value of assets over a 10-year period, to a modified 5-year asset smoothing method for SCNG.

Effective 7-1-2016, actuarial assumptions were changed as a result of a 5 year experience study. The inflation assumption, rate of salary increases, payroll growth assumption, post-retirement mortality tables, pre-retirement mortality assumption and rates of withdrawal, disability and retirement were revised for SCNG. The actuarial valuation of asset method was changed such that each year's investment gain or loss (determined on a market value of asset basis) is recognized over a closed five-year period at the rate of 20% per year for SCNG.

South Carolina National Guard Supplemental Retirement Plan Funding Progress with Funded Ratios¹

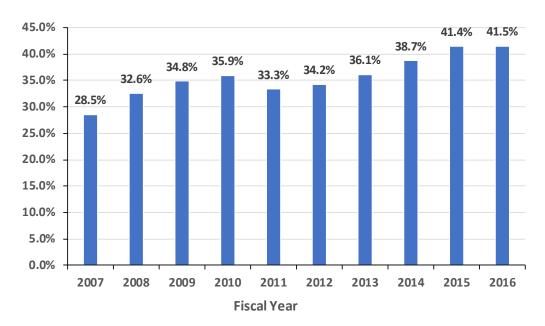
Unfunded Accrued Liabilities

(Amounts expressed in thousands)



Funded Ratios

(Actuarial assets as a percentage of actuarial accrued liabilities)



¹A 10-year schedule of actuarially determined and actual contributions can be found in the Required Supplementary Information portion of the Financial Section as part of the Schedule of Employers' Contributions.

South Carolina Retirement System Reconciliation of UAAL

As of July 1, 2016 (Amounts expressed in thousands)

	Amount of Increase/Decrease				
Item					
Beginning of year UAAL	\$	16,753,255			
Interest on UAAL		1,256,494			
Amortization payment		(1,017,186)			
Assumption/method changes		467,722			
Asset experience		1,131,589			
Salary experience		(17,241)			
Other liability experience		(8,695)			
Legislative changes		0			
End of year UAAL	\$	18,565,938			

Police Officers Retirement System Reconciliation of UAAL

As of July 1, 2016 (Amounts expressed in thousands)

	Amount of Increase/Decrease			
Item				
Beginning of year UAAL	\$	1,895,301		
Interest on UAAL		142,148		
Amortization payment		(123,814)		
Assumption/method changes		120,909		
Asset experience		160,261		
Salary experience		17,265		
Other liability experience		474		
Legislative changes		0		
End of year UAAL	\$	2,212,544		

General Assembly Retirement System Reconciliation of UAAL

As of July 1, 2016 (Amounts expressed in thousands)

	Amount of Increase/Decrease			
Item				
Beginning of year UAAL	\$	37,197		
Interest on UAAL		2,790		
Amortization payment		(4,542)		
Assumption/method changes		808		
Asset experience		2,099		
Liability experience		718		
Legislative changes		0		
End of year UAAL	\$	39,070		

Judges and Solicitors Retirement System Reconciliation of UAAL

As of July 1, 2016 (Amounts expressed in thousands)

	Amount of			
	Increase/Decrease			
Item				
Beginning of year UAAL	\$	111,692		
Interest on UAAL		8,377		
Amortization payment		(7,609)		
Assumption/method changes		6,102		
Asset experience		6,129		
COLA		907		
Salary experience		(2,346)		
Other liability experience		1,215		
Legislative changes		0		
End of year UAAL	\$	124,467		

South Carolina National Guard Supplemental Retirement Plan Reconciliation of UAAL

As of July 1, 2016 (Amounts expressed in thousands)

	Amount of Increase/Decrease			
Item				
Beginning of year UAAL	\$	36,414		
Interest on UAAL		2,731		
Amortization payment		(4,194)		
Assumption/method changes		2,276		
Asset experience		1,197		
Liability experience		(730)		
Legislative changes		0		
End of year UAAL	\$	37,694		

Solvency Test

(Amounts expressed in thousands)

Actuaria		

			Active				tive & Inactive			Portio	Portion of Aggregate Accrued		
			Member	R	etirants &		Members	1	Valuation	Liabi	lities Covere	d by Assets	
SCRS	July 1,	Co	ntributions	Beneficiaries		(Employer Financed)			Assets	Active	Retirants	ER Financed	
	2016	\$	7,447,442	\$	29,830,649	\$	8,581,815	\$ 27,293,968		100%	66.5%	0%	
	2015		7,054,277		28,645,954		8,418,945		27,365,921	100%	70.9%	0%	
	2014		6,717,327		27,942,644		8,229,643		26,910,740	100%	72.3%	0%	
	2013		6,491,895		26,548,472		8,155,695		25,753,068	100%	72.6%	0%	
	2012		6,459,192		24,732,406		8,266,110		25,540,749	100%	77.2%	0%	
	2011		6,472,646		23,160,658	8,378,306			25,604,823	100%	82.6%	0%	
	2010		6,222,854		22,585,243	9,965,932			25,400,331	100%	84.9%	0%	
	2009		5,980,022		21,381,561		9,788,732		25,183,062	100%	89.8%	0%	
	2008		5,708,022		20,624,862		9,329,937		24,699,678	100%	92.1%	0%	
	2007		5,464,756		19,084,672		9,217,250		23,541,438	100%	94.7%	0%	
PORS	2016	\$	968,722	\$	3,881,514	\$	1,717,161	\$	4,354,853	100%	87.2%	0.0%	
	2015		905,768		3,624,713		1,631,614		4,266,794	100%	92.7%	0.0%	
	2014		850,383		3,490,161		1,565,284		4,105,308	100%	93.3%	0.0%	
	2013		793,414		3,385,496		1,484,846		3,922,041	100%	92.4%	0.0%	
	2012		773,710		3,118,016		1,465,766		3,808,934	100%	97.3%	0.0%	
	2011		786,724		2,784,144		1,551,633		3,728,241	100%	100.0%	10.1%	
	2010		758,695		2,577,772		1,513,990		3,612,700	100%	100.0%	18.2%	
	2009		726,214		2,348,685		1,489,212		3,482,220	100%	100.0%	27.4%	
	2008		697,423		2,183,645		1,437,887		3,363,136	100%	100.0%	33.5%	
	2007		658,023		1,818,914		1,253,607		3,160,240	100%	100.0%	54.5%	

Effective 7-1-2008, actuarial assumptions for SCRS were changed as a result of a 5 year experience study. Changes in the investment return assumptions were adopted by the Board for the 7-1-2008 valuation for all plans.

Effective 7-1-2011, actuarial assumptions were changed as a result of a 5 year experience study. The investment return assumption, inflation assumption, rate of salary increases, payroll growth assumption, post-retirement mortality assumption for all groups, retirement rates and termination rates were revised for both SCRS and PORS. The actuarial valuation of asset method was changed from one that recognized the difference between the expected and actual return on the market value of assets over a 10-year period, to a modified 5-year asset smoothing method for both SCRS and PORS. In addition, there were minor changes to the rates of disability incidence for SCRS.

July 1, 2011, valuation adjusted to reflect pension reform legislation in Act 278.

Effective 7-1-2012, disability and retirement rates were updated to more appropriately reflect the anticipated plan experience as a result of the enactment of Act 278. Act 278 became law in June 2012, which resulted in substantial changes to the benefit provisions of both SCRS and PORS.

Effective 7-1-2016, actuarial assumptions were changed as a result of a 5 year experience study. The inflation assumption, rate of salary increases, payroll growth assumption, post-retirement mortality tables and pre-retirement mortality assumption were revised for both SCRS and PORS. The actuarial valuation of asset method was changed such that each year's investment gain or loss (determined on a market value of asset basis) is recognized over a closed five-year period at the rate of 20% per year for both SCRS and PORS. In addition, there were changes to the rates of withdrawal and retirement for SCRS and changes to the rates of retirement and disability for PORS.

Solvency Test

(Amounts expressed in thousands)

Actuarial Accrued Liability

				ctuui	idi Acci dec	LIGOTIII	• 7					
			Active			Act	ive & Inactive			Portio	n of Aggrega	te Accrued
		N	lember	Re	tirants &		Members	Va	aluation	Liabil	ities Covered	by Assets
GARS	July 1,	Con	tributions	Ben	eficiaries	(Emp	loyer Financed)		Assets	Active	Retirants	ER Financed
	2016	\$	7,334	\$	57,314	\$	10,348	\$	35,926	100%	49.9%	0%
	2015		7,295		58,384		8,830		37,312	100%	51.4%	0%
	2014		7,358		58,098		9,058		37,646	100%	52.1%	0%
	2013		7,164		59,592		8,883		38,033	100%	51.8%	0%
	2012		7,267		58,213		8,852		39,233	100%	54.9%	0%
	2011		7,100		58,291		9,213		41,484	100%	59.0%	0%
	2010		7,265		53,486		7,920		43,712	100%	68.1%	0%
	2009		6,822		54,586		7,083		45,891	100%	71.6%	0%
	2008		7,265		53,240		8,617		47,189	100%	75.0%	0%
	2007		7,735		54,115		9,164		46,925	100%	72.4%	0%
JSRS	2016	\$	25,082	\$	200,323	\$	57,899	\$	158,837	100%	66.8%	0%
	2015		24,650		186,481	·	58,544	·	157,983	100%	71.5%	0%
	2014		22,926		184,625		56,742		152,839	100%	70.4%	0%
	2013		21,369		178,526		57,093		147,648	100%	70.7%	0%
	2012		20,005		177,483		54,241		145,604	100%	70.8%	0%
	2011		18,864		169,841		54,809		144,927	100%	74.2%	0%
	2010		17,816		150,696		47,311		142,871	100%	83.0%	0%
	2009		18,431		144,464		51,468		141,797	100%	85.4%	0%
	2008		17,367		141,510		54,529		138,323	100%	85.5%	0%
	2007		18,999		149,435		60,954		132,990	100%	76.3%	0%

Changes in the investment return assumptions were adopted by the Board for the 7-1-2008 valuation for all plans.

Effective 7-1-2011, actuarial assumptions were changed as a result of a 5 year experience study. The investment return assumption, inflation assumption and the mortality assumption were revised for both GARS and JSRS. The actuarial valuation of asset method was changed from one that recognized the difference between the expected and actual return on the market value of assets over a 10-year period, to a modified 5-year asset smoothing method for both GARS and JSRS.

Effective 7-1-2012, Act 278 became law in June 2012 and increased the member contribution rate from 10 percent of pay to 11 percent of pay effective 1-1-2013 for GARS members. The legislation also closed GARS to new members. Newly elected members of the General Assembly on or after the general election of 2012 shall elect to become members of SCRS, State ORP or non-membership.

Effective 7-1-2016, actuarial assumptions were changed as a result of a 5 year experience study. The inflation assumption, post-retirement mortality tables and pre-retirement mortality assumption were revised for both GARS and JSRS. The actuarial valuation of asset method was changed such that each year's investment gain or loss (determined on a market value of asset basis) is recognized over a closed five-year period at the rate of 20% per year for both GARS and JSRS. In addition, there were changes to the disability rates for GARS and changes to the rate of salary increases, COLA, payroll growth assumption, rates of retirement and disability for JSRS.

Solvency Test

(Amounts expressed in thousands)

			Actuar	ial Accrued	Liability						
		Active Member	Ro	tirants &		k Inactive	V:	aluation		n of Aggrega	
SCNG	July 1,	Contributions		eficiaries		r Financed)		Assets	Active	Retirants	ER Financed
	2016	\$ 0	\$	34,562	\$	29,883	\$	26,751	N/A	77.4%	0%
	2015	0		33,521		28,620		25,727	N/A	76.7%	0%
	2014	0		33,739		28,361		24,029	N/A	71.2%	0%
	2013	0		33,590		27,986		22,208	N/A	66.1%	0%
	2012	0		32,989		27,953		20,814	N/A	63.1%	0%
	2011	0		32,038		28,350		20,138	N/A	62.9%	0%
	2010	0		28,492		25,661		19,458	N/A	68.3%	0%
	2009	0		27,558		25,863		18,600	N/A	67.5%	0%
	2008	0		25,554		27,980		17,426	N/A	68.2%	0%
	2007	0		24,627		31,290		15,937	N/A	64.7%	0%

Changes in the investment return assumptions were adopted by the Board for the 7-1-2008 valuation for all plans.

Effective 7-1-2011, actuarial assumptions were changed as a result of a 5 year experience study. The investment return assumption, inflation assumption and the mortality assumption were revised for SCNG. The actuarial valuation of asset method was changed from one that recognized the difference between the expected and actual return on the market value of assets over a 10-year period, to a modified 5-year asset smoothing method for SCNG.

Effective 7-1-2016, actuarial assumptions were changed as a result of a 5 year experience study. The inflation assumption, rate of salary increases, payroll growth assumption, post-retirement mortality tables, pre-retirement mortality assumption and rates of withdrawal, disability and retirement were revised for SCNG. The actuarial valuation of asset method was changed such that each year's investment gain or loss (determined on a market value of asset basis) is recognized over a closed five-year period at the rate of 20% per year for SCNG.

Summary of Basic Provisions

As of June 30, 2016

SCRS	PORS	GARS	JSRS	SCNG
1. Membership				
All permanent, full-time and part-time employees of covered employers must join unless specifically exempted by statute or are eligible and elect to participate in the State ORP. Individuals first elected to serve in the General Assembly in the general election in November 2012 or after must elect membership in either SCRS or State ORP or elect to be a nonmember.	To be eligible for PORS membership, an employee must be required by the terms of his employment, by election or appointment, to preserve public order, protect life and property, and detect crimes in the state; to prevent and control property destruction by fire; be a coroner or deputy coroner in a full-time permanent position; or be a peace officer employed by the SC Department of Corrections, the SC Department of Juvenile Justice, or the SC Department of Mental Health. Probate judges and coroners may elect membership in PORS. Magistrates are required to participate in PORS for service as a magistrate. PORS members, other than magistrates and probate judges, must also earn at least \$2,000 per year and devote at least 1,600 hours per year to this work, unless exempted by statute.	Generally all persons are required to participate upon taking office as a member of the General Assembly unless exempted by Statue. Closed to new members. Individuals first elected to serve in the General Assembly in the general election in November 2012 or after must elect membership in either SCRS or State ORP or elect to be a nonmember.	All solicitors, circuit public defenders, judges of a Circuit or Family Court, and justices of the Court of Appeals and Supreme Court are required to participate upon taking office prior to age 72 unless exempted by statute. Effective July 1, 2014, the definition of judge is expanded to include administrative law judges. Administrative law judges who have not retired are allowed to become members.	Individuals serving in the South Carolina National Guard.
2. Employee Contribut	tions			
Class II 8.66% of earnable compensation	Class I \$21 per month	11% of earnable compensation	10% of earnable compensation	Not applicable as this is a non- contributory plan
Class III 8.66% of earnable compensation	9.24% of earnable compensation			
Effective January 1, 2013, earnable compensation does not include pay for nonmandatory overtime.	9.24% of earnable compensation			

SCRS	PORS	GARS	JSRS	SCNG
3. Employer Contribut	ions			
Class II & III	Class I	Annual lump-sum	47.52% of earnable	Annual lump-sum
11.41% of earnable	7.8% of earnable	appropriation	compensation	appropriation
compensation	compensation			
		Death Benefit Program	Death Benefit Program	Death Benefit Program
Death Benefit Program	Class II& III	Included within annual lump-	0.45% of earnable	Not applicable
0.15% of earnable	13.84% of earnable	sum appropriation	compensation	
compensation	compensation			Accidental Death Program
Assidental Death Business	Dooth Bonofit Business	Accidental Death Program	Accidental Death Program	Not applicable
Accidental Death Program Not applicable	Death Benefit Program 0.2% of earnable	Not applicable	Not applicable	
пот аррисавіе	compensation			
	compensation			
	Accidental Death Program			
	0.2% of earnable			
	compensation			
4. Requirements for So	ervice Annuity			
Class II	Class II	8 years of service	Members are vested in the	20 years total creditable
5 years earned service	5 years earned service		system with 10 years earned	military service, at least 15 of
		The member is entitled to a	service in position of judge; 8	which must have been served
The member is entitled to a	The member is entitled to a	deferred annuity at age 60.	years earned service in	in the South Carolina National
deferred reduced annuity at	deferred annuity at age 55.		position of solicitor or circuit	Guard. Additionally, the last 10
age 60.			public defender.	years of service must have
	Class III			been served in the South
Class III	8 years earned service		For vested members who	Carolina National Guard.
8 years earned service			joined prior to 7/1/2004,	
The member is entitled to a			member is eligible for a deferred annuity at age 55. For	
deferred reduced annuity at			members who joined after	
age 60.			6/30/2004, member is eligible	
-8			for a deferred annuity at age	
			65.	
5. Normal Retirement	Age			
Not applicable	Not applicable	Not applicable	Age 60	Not applicable
6. Requirements for F	ull Service Retirement			
Class II	Class II	Age 60 or 30 years of service	Age 70 with 15 years of service	Age 60 provided the member
Age 65 or 28 years of credited	Age 55 with 5 years of service			was honorably discharged
service. The member must	or 25 years of credited service.	Age 70 or 30 years of service	Age 65 with 20 years of service	from active duty with at least
have a minimum of five years	The member must have a	while continuing to serve in		20 years of total creditable
of earned service to qualify for	minimum of five years of	the General Assembly	25 years of service as judge	military service. Of that 20
retirement.	earned service to qualify for		regardless of age	years of service, 15 years, and
Olere III	retirement.		24	the final 10 years, must have
Class III	Class III		24 years of service as solicitor or circuit public defender	been served in the South Carolina National Guard.
Age 65 or meet the rule of 90 requirement. This means that	Class III Age 55 or 27 years of credited		regardless of age	Carollia National Guaru.
the member's age plus the	service. The member must		regardless of age	
years of service must add up	have a minimum of 8 years of		Age 65 with 4 years earned	
to a total of at least 90.	earned service to qualify for		service as judge or solicitor	
The member must have a	retirement.		and at least 25 years other	
minimum of 8 years of earned			service with the state if a	
service to qualify for			member as of 6/30/2004.	
retirement.				

SCRS	PORS	GARS	JSRS	SCNG
7. Early Retirement				
Class II Age 60 with 5% reduction for each year of age under age 65 Age 55 with 25 years of service, reduced 4% for each year of service under 28. The member must have a minimum of five years of earned service to qualify for early retirement. Class III Age 60 with 5% reduction for each year under age 65 The member must have a minimum of eight years of earned service to qualify for	Not applicable	Age 60 with 8 years of service credit	Members are vested in the system with 10 years earned service in position of judge; 8 years earned service in position of solicitor or circuit public defender. For vested members who joined prior to 7/1/2004, member is eligible for a deferred annuity at age 55. For members who joined after 6/30/2004, member is eligible for a deferred annuity at age 65.	Not applicable
early retirement.	I Camilea Dativament			
8. Formula for Norma		4.020/ of ogworkle	A	Fan 20 was af annia
Class I 1.45% of Average Final Compensation times years of credited service	\$10.97 per month for each year of service	4.82% of earnable compensation times years of credited service	Annual allowance of 71.3% of the current active salary of the member's position. Benefit formula increases by 2.67% for each year of active	For 20 years of service, retirees receive a \$50 monthly benefit. For each year of service beyond the 20 years, up to 30 years of service, the
Class II 1.82% of Average Final Compensation (AFC) times years of credited service (annual benefit amount). AFC is the average annual earnable compensation during 12 consecutive quarters and includes an amount for up to 45 days termination pay at retirement for unused annual leave.	Class II 2.14% of Average Final Compensation (AFC) times years of credited service (annual benefit amount). AFC is the average annual compensation during 12 consecutive quarters and includes an amount for up to 45 days termination pay for unused annual leave.		service over 25 years for judges or over 24 years for solicitors or circuit public defenders. The monthly retirement allowance may not exceed 90% of the current active salary for the member's position. Upon retirement, a member will receive an additional benefit equal to employee contributions and accumulated interest remitted after reaching the maximum 90%	stiree receives an additional \$5. The maximum monthly benefit a retiree can receive is \$100.
Class III 1.82% of Average Final Compensation times years of credited service. AFC is the average annual earnable compensation during 20 consecutive quarters and termination pay for unused annual leave at retirement is not included.	Class III 2.14% of Average Final Compensation times years of credited service. AFC is the average annual earnable compensation during 20 consecutive quarters and termination pay for unused annual leave at retirement is not included.		benefit.	

SCRS	PORS	GARS	JSRS	SCNG
9. Requirements for D	isability Retirement			
Class II Permanent incapacity to perform regular duties of the member's job; 5 years of earned service, unless injury is job related.	Class II Permanent incapacity to perform regular duties of the member's job; 5 years of earned service, unless injury is job related.	5 years of credited service. Must be disabled based on job specific standard.	5 years of credited service. Must be disabled based on job specific standard.	Not applicable
Class III Permanent incapacity to perform the regular duties of the member's job; 8 years of earned service, unless injury is job related For applications received after 12/31/2013, a member of	Class III Permanent incapacity to perform regular duties of the member's job; 8 years of earned service, unless injury is job related			
SCRS will have to be approved for disability benefits from the Social Security Administration in order to be eligible for SCRS disability retirement benefits.				
10. Formula for Disabili				
Disability retirement benefit is based on years of credited service at retirement, average final compensation at retirement and the current benefit multiplier for service retirement benefits. Minimum benefit of 15% of AFC at any age.	Disability retirement benefit is based on a projection of service credit to age 55 or 25 years of service credit, whichever is less, AFC at retirement and the current benefit multiplier for service retirement benefits. Minimum benefit of 15% of AFC at any	The disability retirement benefit is based on the greater of the following options: a. Service benefit based upon actual credited service or b. 50% of service benefit based on projection of service to earlier of age 60 or 35 years of service.	The disability retirement benefit is based on the service retirement formula.	Not applicable

age.

SCRS	PORS	GARS	JSRS	SCNG
11. Benefit Options				
Option A	Option A	Maximum Benefit	Maximum Benefit	Formula benefit as calculated
(Maximum/Retiree Only)	(Maximum/Retiree Only)	(Retiree Only)	(Retiree/One-Third Spouse)	in item 8.
Formula benefit as calculated	Formula benefit as calculated	Formula benefit as calculated	Formula as calculated in item	
in item 8. Non-recovered	in item 8. Non-recovered	in item 8. Non-recovered	8. Continued annuity of one-	
contributions paid upon death.	contributions paid upon death.	contributions paid upon death.	third of member's benefit to a spouse beneficiary upon death	
Option B	Option B	Option 1	of retiree or return of	
(100% - 100% Joint	(100% - 100% Joint	Provides a reduced (from the	contributions to a designated	
Retiree/Survivor)	Retiree/Survivor)	Maximum Benefit) lifetime	non-spouse beneficiary.	
Provides a reduced (from	Provides a reduced (from	benefit that upon retiree's		
Option A) lifetime benefit that	Option A) lifetime benefit that	death continues to retiree's	Optional Allowance	
upon retiree's death continues	upon retiree's death continues	beneficiary. Benefit will not	Provides a reduced (from the	
to retiree's beneficiary. This	to retiree's beneficiary. This	revert to Maximum if all of the	Maximum Benefit) lifetime	
option is subject to non-	option is subject to non-	retiree's beneficiaries	annuity that upon the retiree's	
spousal beneficiary limitations	spousal beneficiary limitations	predecease the retiree.	death will continue at one-	
based on state statute and an	based on state statute and an		third of the retiree's annuity to	
Internal Revenue Code	Internal Revenue Code	Option 2	a non-spouse beneficiary (or in	
formula.	formula.	Provides a reduced (from the	equal shares to multiple	
		Maximum Benefit) lifetime	beneficiaries).	
Option C	Option C	benefit that upon retiree's		
(100% - 50% Joint	(100% - 50% Joint	death will continue to retiree's		
Retiree/Survivor)	Retiree/Survivor)	beneficiary at 50% of the		
Provides a reduced (from	Provides a reduced (from	retiree's annuity. Benefit will		
Option A) lifetime benefit that	Option A) lifetime benefit that	not revert to Maximum if all of		
upon retiree's death will	upon retiree's death will	the retiree's beneficiaries		
continue to retiree's	continue to retiree's	predecease the retiree.		
beneficiary at 50% of the	beneficiary at 50% of the			
retiree's annuity.	retiree's annuity.	Revert to Maximum (1A or 2A)		
Note: If a retiree selects	Note: If a retiree selects	This feature will allow benefits		
Option B or Option C and all of	Option B or Option C and all of	to be changed to the		
the retiree's beneficiaries	the retiree's beneficiaries	Maximum Benefit if the retiree		
predecease the retiree, the	predecease the retiree, the	selects Option 1 or Option 2		
retiree's benefit will revert to	retiree's benefit will revert to	and all of the retiree's		
Option A.	Option A.	beneficiaries predecease the		

SCRS	PORS	GARS	JSRS	SCNG
12. Deferred Retirement	Option Programs			

Class II TERI is a deferred retirement option program (DROP). Upon meeting normal retirement eligibility, a member can elect to retire and continue working under the TERI program for a maximum of five years, after which employment will cease. During the TERI participation, the retirement annuity is not paid to the TERI retirees, but monthly benefits are accumulated in TERI accounts and are distributed to the members upon termination of employment. For members retiring after June 30, 2005, a payment for annual leave is not included in calculating benefits. Upon termination, however, benefits are increased prospectively to include payment for up to 45 days annual leave paid at termination of employment. No interest is credited to the TERI account. TERI participants who entered the program after June 30, 2005, must continue to contribute at the same rate as active members. No additional service credit is earned during this period and participants are ineligible for disability retirement benefits. The TERI program will end effective June 30, 2018. New enrollees in the TERI program after June 30, 2012, must end their participation within 5 years after their retirement

Not applicable Not applicable

A JSRS member who has not reached age 60, but is eligible to retire and receive the 90 percent maximum JSRS annuity may retire and continue to serve as a judge, solicitor, or circuit public defender. However, the monthly annuity will be deferred, without interest, until the member reaches age 60. Payout of the deferred annuity will be made when the retired JSRS member reaches the normal retirement age of 60.

Not applicable

Employee and employer contributions must continue to be paid while a member is participating in the JSRS deferred retirement program, but no additional service is earned.

Class III

TERI program is not available.

date or June 30, 2018, whichever is earlier.

SCRS PORS GARS JSRS SCNG

13. Return to Work Provisions

There is no earning limitation for members who retired prior to 1/1/2013. For members retiring after 1/1/2013, in order to return to work for a covered employer after retirement, the member must first have a complete, bona fide severance or termination of employment. After 30 days of retirement, he may be hired by an employer covered by one of the retirement systems administered by PEBA Retirement Benefits. If the member is under age 62 at retirement and returns to covered employment, he will be subject to a \$10,000 per year earnings limitation. A member can earn up to \$10,000 per year and continue to receive his monthly annuity. If wages earned exceed \$10,000 in a calendar year, the monthly annuity will be suspended for the remainder of that year. The \$10,000 earnings limitation does not apply to a retired member who receives compensation for service as an elected official, service as an appointee of the Governor with confirmation by the Senate, or service by appointment or election by the General Assembly. A retired member may return to covered employment without affecting his monthly annuity if he is a certified teacher and is employed by a school district to teach in the classroom in his area of certification. The \$10,000 earnings limitation does not apply if the State Department of Education determines that no qualified. non-retired member is available for employment in the position, and 1) that a certified teacher is teaching in Continued on Next Page

There is no earning limitation for members who retired prior to 1/1/2013. For members retiring after 1/1/2013, in order to return to work for a covered employer after retirement, the member must first have a complete, bona fide severance or termination of employment. After 30 days of retirement, he may be hired by an employer covered by one of the retirement systems administered by PEBA Retirement Benefits. If the member is under age 57 at retirement and returns to covered employment, he will be subject to a \$10,000 per year earnings limitation. A member can earn up to \$10,000 per year and continue to receive his monthly annuity. If wages earned exceed \$10,000 in a calendar year, the monthly annuity will be suspended for the remainder of that year. The \$10,000 earnings limitation does not apply to a retired member who receives compensation for service as an elected official, service as an appointee of the Governor with confirmation by the Senate, or service by appointment or election by the General Assembly.

An active GARS member who has reached age 70 or has 30 years of service credit may retire and begin receiving a GARS retirement annuity while continuing to serve in office. The retired GARS member will receive a retirement annuity in lieu of a per diem salary and additional line item pay for certain positions. Generally, a retired member of GARS may return to work after retirement with no limit on the dollar amount that may be earned as compensation; however, certain conditions and restrictions may apply to employers covered by SCRS, PORS, GARS and JSRS.

A member who is age 60 and eligible to receive the maximum monthly benefit, may retire and receive a retirement benefit while continuing to serve as a judge, solicitor, or circuit public defender until the end of the calendar year in which the member reaches age 72. Employee and employer contributions must continue to be paid as if the retiree was an active contributing member, but no additional service credit accrues and no additional interest is credited to their retirement account. Prior to July 1, 2014, a retired judge may continue to receive a retirement benefit while employed by a public institution of education. provided the judge does not contribute to or receive service credit in SCRS. This exemption was repealed effective July 1, 2014. Effective July 1, 2014, a retired member who has been retired for 30 days may be rehired by an SCRS or PORS employer and earn up to \$10,000 per year. The earnings limit does not apply to members who retired prior to July 1, 2014, were at least 62 at retirement or are serving as appointed or elected official. Employee and employer contributions must continue to be paid as if the member were active in SCRS or PORS; however, the member cannot be an active member and does not accrue service credit.

Not applicable

SCRS PORS GARS SCNG JSRS Return to Work Provisions (continued) a critical academic need area or a geographic need area as defined by the State Board of Education, or 2) that a retired certified school teacher or certified employee is employed in a school or school district that has received a "below average" or "unsatisfactory" academic performance rating pursuant to the Education Accountability Act. After approval is received from the Department of Education, school districts must notify PEBA Retirement Benefits of the member's exemption from the earnings limitation. 14. Post Retirement Increase Eligible annuitant payees Eligible annuitant payees Retired member receives Retired member receives Post retirement increases are receive an annual benefit receive an annual benefit benefit based on current salary benefit based on current salary not provided. adjustment equal to the lesser adjustment equal to the lesser for member's position. for member's position. of 1% or \$500. of 1% or \$500.

15. Accidental Death Program

Not applicable Provides 50% of earnable compensation at time of duty as an annuity to either

accidental death in the line of the surviving spouse, children, or parents. The annuity to surviving children ends upon each child's 18th birthday.

Not applicable

Not applicable

Not applicable

CODO	2020	0.4.00	1000	20110
SCRS	PORS	GARS	JSRS	SCNG
16. Death Benefit Progr	ram			
Lump-sum payment equal to	Lump-sum payment equal to	Lump-sum payment equal to	Lump-sum payment equal to	Not applicable
one year's salary payable to	one year's salary payable to	one year's salary payable to	one year's salary payable to	
the beneficiary upon the death	the beneficiary upon the death	the beneficiary upon the death	the beneficiary upon the death	
of an active or working retired	of an active member or	of an active member with at	of an active member with at	
contributing member with at	working retired contributing	least one year of service.	least one year of service.	
least one year of service.	member with at least one year			
	of service.	No service requirement for	No service requirement for	
No service requirement for		death resulting from an injury	death resulting from an injury	
death resulting from an injury	No service requirements for	arising out of the actual	arising out of the actual	
arising out of the actual	death resulting from an injury	performance of duties for an	performance of duties for an	
performance of duties for an	arising out of the actual	active member.	active member.	
active member.	performance of duties for an			
	active member.	Lump-sum payment to	Lump-sum payment to	
Lump-sum payment to		retiree's beneficiary of up to	retiree's beneficiary of up to	
retiree's beneficiary of up to	Lump-sum payment to	\$3,000 based upon years of	\$3,000 based upon years of	
\$6,000 based upon years of	retiree's beneficiary of up to	service at retirement.	service at retirement.	
service at retirement. TERI	\$6,000 based upon years of			
participants and working	service at retirement. Retired			
retired contributing members	contributing members are			
are eligible for an increased	eligible for an increased death			
death benefit payment equal	benefit payment equal to their			
to their annual salary in lieu of	annual salary in lieu of the			
the standard retired member benefit.	standard retired member benefit.			
17. Withdrawal of Emp				
Accumulated contributions,	Accumulated contributions,	Accumulated contributions,	Accumulated contributions,	Not applicable as this is a non-
plus interest, payable upon	plus interest, payable upon	plus interest, paid as promptly	plus interest, paid as promptly	contributory plan.
request 90 days after	request 90 days after	as feasible upon request after	as feasible upon request after	
termination of all covered	termination of all covered	termination of all covered	termination of all covered	
employment.	employment.	employment.	employment.	
Effective July 1, 2012, no	Effective July 1, 2012, no	Effective July 1, 2012, no	Effective July 1, 2012, no	
interest is accrued on inactive	interest is accrued on inactive	interest is accrued on inactive	interest is accrued on inactive	
accounts.	accounts.	accounts.	accounts.	

The individual Entry Age

Normal cost method is used

for the actuarial valuation of

funding purposes. Under this

cost method, the cost of each

member's projected pension

benefit is allocated on a level

percent of payroll over the

member's projected service

with the Retirement System.

Employers also finance the

unfunded actuarial accrued

liability as a level percentage

of pay over a funding period

This method was selected

that does not exceed 30 years.

because it is the method that

contributions as a percentage

of payroll from year to year. It

is also the method that most

equitably allocates pension

generations of taxpayers.

The individual Entry Age

Normal cost method is also the

actuarial cost method used for

costs among various

will produce the most level

the retirement systems for

18. Actuarial Cost Method

The individual Entry Age Normal cost method is used for the actuarial valuation of the retirement systems for funding purposes. Under this cost method, the cost of each member's projected pension benefit is allocated on a level percent of payroll over the member's projected service with the Retirement System. Employers also finance the unfunded actuarial accrued liability as a level percentage of pay over a funding period that does not exceed 30 years. This method was selected because it is the method that will produce the most level contributions as a percentage of payroll from year to year. It is also the method that most equitably allocates pension costs among various generations of taxpayers.

The individual Entry Age Normal cost method is also the actuarial cost method used for financial reporting purposes.

19. Funding Policy

Legislative reform was enacted in 2012 and as a result. SC State Statute now establishes the base funding policy for SCRS. Additionally, the State Fiscal Accountability Authority (SFAA) and PEBA Board as trustees and fiduciaries of the plans, have the authority to maintain or adopt further policy changes above the floor, if they should choose to do so.

The individual Entry Age Normal cost method is used for the actuarial valuation of the retirement systems for funding purposes. Under this cost method, the cost of each member's projected pension benefit is allocated on a level percent of payroll over the member's projected service with the Retirement System. Employers also finance the unfunded actuarial accrued liability as a level percentage of pay over a funding period that does not exceed 30 years. This method was selected because it is the method that will produce the most level contributions as a percentage of payroll from year to year. It is also the method that most equitably allocates pension costs among various generations of taxpayers.

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plans, have the authority to

maintain or adopt further

in 2012 and as a result. SC

the base funding policy for

(SFAA) and PEBA Board as

financial reporting purposes. The State Fiscal Accountability Authority (SFAA) and PEBA Board as trustees and fiduciaries of the plan are responsible for establishing and maintaining funding policy. The funding policy currently in place was adopted by the Budget and Control Board in April 1996 in an effort to establish and set forth the essential funding goals and methods by which to measure

progress toward those goals.

The State Fiscal Accountability Authority (SFAA) and PEBA Board as trustees and fiduciaries of the plan are responsible for establishing and maintaining funding policy. The funding policy by the Budget and Control to establish and set forth the essential funding goals and

funding purposes. Under this cost method, the cost of each member's projected pension benefit is allocated on a level percent of payroll over the member's projected service with the Retirement System. Employers also finance the unfunded actuarial accrued liability as a level percentage of pay over a funding period that does not exceed 30 years. This method was selected because it is the method that will produce the most level contributions as a percentage of payroll from year to year. It is also the method that most equitably allocates pension costs among various generations of taxpayers. The individual Entry Age

The individual Entry Age

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for the actuarial valuation of

the retirement systems for

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percent of payroll over the

member's projected service

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Employers also finance the

unfunded actuarial accrued

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This method was selected

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costs among various

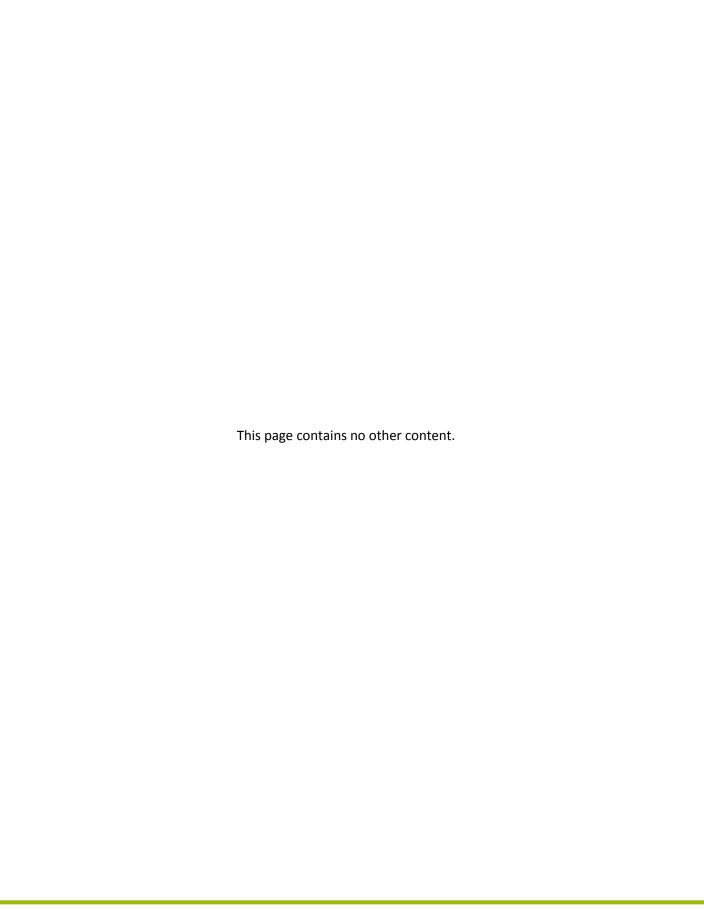
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the retirement systems for

Normal cost method is also the actuarial cost method used for financial reporting purposes.

currently in place was adopted Board in April 1996 in an effort methods by which to measure progress toward those goals.

The State Fiscal Accountability Authority (SFAA) and PEBA Board as trustees and fiduciaries of the plan are responsible for establishing and maintaining funding policy. The funding policy currently in place was adopted by the Budget and Control Board in April 1996 in an effort to establish and set forth the essential funding goals and methods by which to measure progress toward those goals.



Statistical Section



Statistical Section Summary

The objective of the Statistical Section is to provide financial statement users with additional historical perspective, context, and detail to assist in using information presented in the Financial Statements, Notes to the Financial Statements, and Required Supplementary Information to understand and assess the Systems' economic condition. Information reported in the Systems' statistical section is presented in four main categories: Financial Trends Information, Operating Information, Revenue Capacity Information, and Demographic and Economic Information.

Financial Trends Information

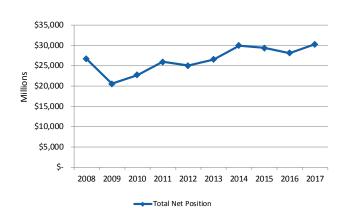
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Financial Trends Information

Financial Trends Information is intended to assist users in understanding and assessing how the Systems' financial position has changed over time. The 10 year summary of fiduciary net position and 10 year schedules of changes in fiduciary net position as well as the additions by source, deductions by type, and benefit expenses by type for the last 10 fiscal years may be considered useful in determining financial trends.

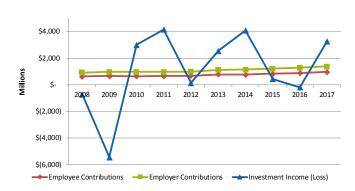
Trend of Total Fiduciary Net Position Values

A trend of the total fiduciary net position over the past 10 years reflects an overall increase; however, the plans are in a net cash outflow position with benefit payments exceeding contributions; therefore, investment performance must first make up this gap before fiduciary net position can grow. Negative investment returns and relatively flat investment performance realized during fiscal years 2008, 2009, 2012, 2015 and 2016 resulted in decreases in the net position of the portfolio. The increase in 2017 was primarily attributable to positive investment performance.



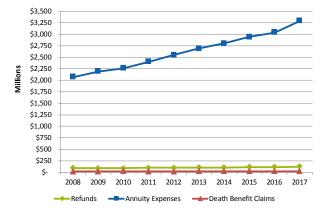
Trend of Total Pension Trust Funds Additions by Source

The overall trend in the dollar amount of employee and employer contributions has gradually increased primarily due to increases in contribution rates, although changes in the amount of covered payroll have also had an impact. During fiscal year 2013, employee contributions were inflated due to an influx of members purchasing service, therefore employee contributions collected in 2014 decreased. Investment income is much more volatile due to its dependence on the market.



Trend of Total Pension Trust Funds Deductions by Type

The combined impact of an increase in the number of retired members and benefit adjustments granted to retirees has resulted in a rise in the annuity expense over the past 10 years. In addition, the surge in the amount of distributions paid to members ending their participation in the TERI program had a large effect on the increase in 2017.



South Carolina Retirement Systems 10 Year Summary of Fiduciary Net Position

As of June 30 (Amounts expressed in thousands)

	 2017	2016	2015	2014	2013 ¹
Assets					
Cash and cash equivalents, receivables,					
and prepaid expenses	\$ 3,712,085	\$ 4,979,349	\$ 3,622,210	\$ 4,063,173	\$ 4,023,274
Investments, at fair value	27,995,164	24,790,218	27,093,961	26,754,819	24,587,950
Securities lending cash collateral invested	123,275	55,737	70,177	72,645	106,633
Capital assets, net of accumulated depreciation	 2,537	 2,741	 3,005	 2,912	 3,083
Total Assets	31,833,061	29,828,045	30,789,353	30,893,549	28,720,940
Liabilities					
Deferred retirement benefits	95,327	71,693	68,104	56,901	68,344
Obligations under securities lending	123,275	55,737	70,177	72,645	106,633
Other liabilities	1,397,531	1,633,962	1,345,382	836,292	1,645,150
Total Liabilities	1,616,133	1,761,392	1,483,663	 965,838	1,820,127
Net Position Restricted for Pensions	\$ 30,216,928	\$ 28,066,653	\$ 29,305,690	\$ 29,927,711	\$ 26,900,813
	 2012 ²	2011	2010	2009	2008
Assets					
Cash and cash equivalents, receivables,					
Cash and cash equivalents, receivables,					
and prepaid expenses	\$ 3,416,972	\$ 3,977,880	\$ 5,298,443	\$ 3,403,752	\$ 2,835,196
	\$ 3,416,972 23,157,144	\$ 3,977,880 23,870,891	\$ 5,298,443 18,829,568	\$ 3,403,752 17,915,982	\$ 2,835,196 24,697,700
and prepaid expenses Investments, at fair value	\$ 	\$ 	\$ 	\$ 	\$ 24,697,700
and prepaid expenses	\$ 23,157,144	\$ 23,870,891	\$ 18,829,568	\$ 17,915,982	\$
and prepaid expenses Investments, at fair value Securities lending cash collateral invested	\$ 23,157,144 184,025	\$ 23,870,891 229,161	\$ 18,829,568 324,593	\$ 17,915,982 1,845,862	\$ 24,697,700 3,796,183
and prepaid expenses Investments, at fair value Securities lending cash collateral invested Capital assets, net of accumulated depreciation	\$ 23,157,144 184,025 2,984	\$ 23,870,891 229,161 3,103	\$ 18,829,568 324,593 3,221	\$ 17,915,982 1,845,862 3,340	\$ 24,697,700 3,796,183 3,459
and prepaid expenses Investments, at fair value Securities lending cash collateral invested Capital assets, net of accumulated depreciation Total Assets	\$ 23,157,144 184,025 2,984 26,761,125	\$ 23,870,891 229,161 3,103 28,081,035	\$ 18,829,568 324,593 3,221 24,455,825	\$ 17,915,982 1,845,862 3,340 23,168,936	\$ 24,697,700 3,796,183 3,459 31,332,538
and prepaid expenses Investments, at fair value Securities lending cash collateral invested Capital assets, net of accumulated depreciation Total Assets Liabilities Deferred retirement benefits	\$ 23,157,144 184,025 2,984	\$ 23,870,891 229,161 3,103 28,081,035	\$ 18,829,568 324,593 3,221	\$ 17,915,982 1,845,862 3,340 23,168,936 431,503	\$ 24,697,700 3,796,183 3,459 31,332,538 552,260
and prepaid expenses Investments, at fair value Securities lending cash collateral invested Capital assets, net of accumulated depreciation Total Assets Liabilities	\$ 23,157,144 184,025 2,984 26,761,125 386,302 184,025	\$ 23,870,891 229,161 3,103 28,081,035 364,005 229,161	\$ 18,829,568 324,593 3,221 24,455,825 323,093 324,593	\$ 17,915,982 1,845,862 3,340 23,168,936 431,503 1,845,862	\$ 24,697,700 3,796,183 3,459 31,332,538 552,260 3,796,183
and prepaid expenses Investments, at fair value Securities lending cash collateral invested Capital assets, net of accumulated depreciation Total Assets Liabilities Deferred retirement benefits Obligations under securities lending	\$ 23,157,144 184,025 2,984 26,761,125	\$ 23,870,891 229,161 3,103 28,081,035	\$ 18,829,568 324,593 3,221 24,455,825 323,093	\$ 17,915,982 1,845,862 3,340 23,168,936 431,503	\$ 24,697,700 3,796,183 3,459 31,332,538 552,260

¹ In accordance with GASB 67, financial statements for fiscal year 2013 were restated to report a liability only for benefits due but not yet distributed to members who had ended their participation in the DROP program at June 30. Also, in an effort to more closely align with RSIC and their investment advisor, Global asset allocation and certain derivative investments such as swaps, options and futures were reclassified for fiscal year 2013 to conform to the presentation in FY 2014.

²Certain assets held in strategic partnerships were reclassified for fiscal year 2012 to conform to the change in presentation for fiscal year 2013. In an effort to conform to investment reporting by the RSIC; cash, short duration and high yield investments held in the strategic partnerships that were previously classified as alternatives are now presented in the respective categories of cash and cash equivalents, short term securities and domestic fixed income.

South Carolina Retirement System 10 Year Schedule of Changes in Fiduciary Net Position

	2017	2016	2015	2014	2013 ¹	
Additions						
Employee contributions	\$ 826,543	\$ 754,153	\$ 716,107	\$ 652,631	\$ 674,783	
Employer contributions	1,168,847	1,072,659	1,022,478	962,798	948,157	
Investment income (loss)	2,791,215	(165,394)	374,152	3,517,324	2,195,648	
Other income	393	611	514	587	657	
Total Additions	4,786,998	1,662,029	2,113,251	5,133,340	3,819,245	
Deductions						
Annuity benefits	2,907,666	2,668,819	2,590,806	2,462,146	2,368,510	
Refunds	105,169	93,694	95,104	90,250	87,212	
Death benefits	22,677	20,659	20,144	19,240	19,133	
Administrative & other expenses	15,019	14,323	13,890	14,235	16,629	
Total Deductions	3,050,531	2,797,495	2,719,944	2,585,871	2,491,484	
Net Increase (Decrease) in Net Position	1,736,467	(1,135,466)	(606,693)	2,547,469	1,327,761	
Net Position Restricted for Pensions						
Beginning of year	23,996,362	25,131,828	25,738,521	23,191,052	21,863,291	
End of year	\$25,732,829	\$23,996,362	\$25,131,828	\$25,738,521	\$23,191,052	
	2012	2011	2010	2009	2008	
Additions						
Employee contributions	\$ 586,818	\$ 562,170	\$ 561,261	\$ 564,872	\$ 540,872	
Employer contributions	824,652	808,343	818,523	827,502	774,269	
Investment income (loss)	109,307	3,598,069	2,612,663	(4,754,668)	(641,196)	
Other income	733	884	957	1,233	1,321	
Total Additions	1,521,510	4,969,466	3,993,404	(3,361,061)	675,266	
Deductions						
Annuity benefits	2,256,519	2,134,031	2,014,418	1,956,446	1,853,892	
Refunds	83,134	84,591	75,814	73,882	79,027	
Death benefits	18,295	16,485	19,921	17,908	17,617	
Administrative & other expenses	21,683	20,467	19,593	20,371	20,752	
Total Deductions	2,379,631	2,255,574	2,129,746	2,068,607	1,971,288	
Net Increase (Decrease) in Net Position	(858,121)	2,713,892	1,863,658	(5,429,668)	(1,296,022)	
Net Position Restricted for Pensions						
Net Position Restricted for Pensions Beginning of year	22,395,029	19,681,137	17,817,479	23,247,147	24,543,169	

¹ In accordance with GASB 67, Annuities reported in fiscal year 2013 were restated to include only DROP amounts actually distributed to participants as well as amounts due but not yet distributed. Also in accordance with GASB 67, RSIC administrative expenses previously classified as administrative expenses were reclassified as investment expenses for fiscal year 2013 to conform to the presentation for fiscal year 2014.

Police Officers Retirement System 10 Year Schedule of Changes in Fiduciary Net Position

	2017		2016	2015		2014		2013 ¹	
Additions									
Employee contributions	\$	127,840	\$ 115,188	\$	106,854	\$	96,004	\$	97,164
Employer contributions		192,006	175,223		166,451		155,608		143,389
Investment income (loss)		455,914	(24,636)		58,705		538,386		329,467
Other income		1,293	1,192		1,083		2,286		3,043
Total Additions		777,053	 266,967		333,093		792,284		573,063
Deductions									
Annuity benefits		354,749	339,536		324,829		313,216		297,631
Refunds		19,964	19,178		17,453		16,184		14,983
Death benefits		2,104	1,960		2,150		2,410		1,985
Administrative & other expenses		2,149	2,082		1,938		1,820		2,006
Total Deductions		378,966	362,756		346,370		333,630		316,605
Net Increase (Decrease) in Net Position		398,087	(95,789)		(13,277)		458,654		256,458
Net Position Restricted for Pensions									
Beginning of year		3,876,036	3,971,825		3,985,102		3,526,448		3,269,990
End of year	\$	4,274,123	\$ 3,876,036	\$	3,971,825	\$	3,985,102	\$	3,526,448
		2012	2011		2010		2009		2008
Additions									
Employee contributions	\$	84,470	\$ 79,334	\$	77,051	\$	77,014	\$	76,907
Employer contributions		134,299	129,314		123,163		124,148		114,862
Investment income (loss)		17,198	519,531		362,566		(638,389)		(85,415)
Other income		1,957	 1,944		1,308		1,671		52
Total Additions		237,924	 730,123		564,088		(435,556)		106,406
Deductions									
Annuity benefits		265,582	244,443		224,977		211,873		195,989
Refunds		15,162	14,902		13,673		13,753		13,754
Death benefits		1,851	1,984		2,019		1,720		2,068
Administrative & other expenses		2,872	 2,735		2,577		2,537		2,505
Total Deductions		285,467	264,064		243,246		229,883		214,316
Net Increase (Decrease) in Net Position		(47,543)	466,059		320,842		(665,439)		(107,910)
Net Position Restricted for Pensions									
Beginning of year		3,317,533	2,851,474		2,530,632		3,196,071		3,303,981
End of year	\$	3,269,990	\$ 3,317,533	\$	2,851,474	\$	2,530,632	\$	3,196,071

¹In accordance with GASB 67, RSIC administrative expenses previously classified as administrative expenses were reclassified as investment expenses for fiscal year 2013 to conform to the presentation for fiscal year 2014.

General Assembly Retirement System 10 Year Schedule of Changes in Fiduciary Net Position

	2017		2016	2015		2014		2013 ¹
Additions								
Employee contributions	\$	468	\$ 292	\$	369	\$	384	\$ 1,091
Employer contributions		4,539	4,501		4,275		4,063	2,831
Investment income (loss)		3,329	(266)		500		4,545	3,111
Other income		19	 				15	 199
Total Additions		8,355	 4,527		5,144		9,007	 7,232
Deductions								
Annuity benefits		6,678	6,625		6,639		6,799	6,720
Refunds			22				41	3
Death benefits		59	9		21		20	16
Administrative & other expenses		17	165		36		17	20
Total Deductions		6,754	6,821		6,696		6,877	6,759
Net Increase (Decrease) in Net Position		1,601	(2,294)		(1,552)		2,130	473
Net Position Restricted for Pensions								
Beginning of year		30,188	32,482		34,034		31,904	31,431
End of year	\$	31,789	\$ 30,188	\$	32,482	\$	34,034	\$ 31,904
		2012	2011		2010		2009	2008
Additions								
Employee contributions	\$	724	\$ 624	\$	544	\$	706	\$ 733
Employer contributions		2,532	2,414		2,598		2,495	2,440
Investment income (loss)		172	5,682		4,642		(9,409)	(1,136)
Other income			 1		36		84	
Total Additions		3,428	 8,721		7,820		(6,124)	 2,037
Deductions								
Annuity benefits		6,570	6,528		6,512		6,416	6,181
Refunds		31	57		4		33	102
Death benefits		35	58		6		14	28
Administrative & other expenses		30	 179		33		116	64
Total Deductions		6,666	6,822		6,555		6,579	6,375
Net Increase (Decrease) in Net Position		(3,238)	1,899		1,265		(12,703)	(4,338)
Net Position Restricted for Pensions								
Net i osition Restricted for i ensions								
Beginning of year		34,669	32,770		31,505		44,208	48,546

¹In accordance with GASB 67, RSIC administrative expenses previously classified as administrative expenses were reclassified as investment expenses for fiscal year 2013 to conform to the presentation for fiscal year 2014.

Judges and Solicitors Retirement System 10 Year Schedule of Changes in Fiduciary Net Position

	2017		2016	2015		2014		2013 ¹
Additions								
Employee contributions	\$	2,928	\$ 2,303	\$	3,153	\$	2,448	\$ 2,596
Employer contributions		10,534	10,202		10,109		9,659	8,667
Investment income (loss)		16,399	(871)		2,216		19,962	12,605
Other income		253	27		286		195	184
Total Additions		30,114	 11,661		15,764		32,264	24,052
Deductions								
Annuity benefits		17,679	16,989		16,832		16,675	15,745
Refunds		629	60					57
Death benefits		293	143		4		10	134
Administrative & other expenses		79	105		71		68	76
Total Deductions		18,680	17,297		16,907		16,753	16,012
Net Increase (Decrease) in Net Position		11,434	(5,636)		(1,143)		15,511	8,040
Net Position Restricted for Pensions								
Beginning of year		140,717	146,353		147,496		131,985	123,945
End of year	\$	152,151	\$ 140,717	\$	146,353	\$	147,496	\$ 131,985
			2011		2040		2000	2000
		2012	2011		2010		2009	2008
Additions		2012	2011		2010		2009	2008
Additions Employee contributions	\$	2,299	\$ 2,209	\$	2,343	\$	2,524	\$ 1,416
	\$		\$	\$		\$		\$
Employee contributions	\$	2,299	\$ 2,209	\$	2,343	\$	2,524	\$ 1,416
Employee contributions Employer contributions	\$	2,299 8,414	\$ 2,209 8,414	\$	2,343 8,414	\$	2,524 8,414	\$ 1,416 7,613
Employee contributions Employer contributions Investment income (loss)	\$	2,299 8,414 783	\$ 2,209 8,414 20,092	\$	2,343 8,414 14,646	\$	2,524 8,414 (26,741)	\$ 1,416 7,613
Employee contributions Employer contributions Investment income (loss) Other income	\$	2,299 8,414 783 261	\$ 2,209 8,414 20,092 193	\$	2,343 8,414 14,646 114	\$	2,524 8,414 (26,741) 83	\$ 1,416 7,613 (3,371)
Employee contributions Employer contributions Investment income (loss) Other income Total Additions	\$	2,299 8,414 783 261	\$ 2,209 8,414 20,092 193	\$	2,343 8,414 14,646 114	\$	2,524 8,414 (26,741) 83	\$ 1,416 7,613 (3,371)
Employee contributions Employer contributions Investment income (loss) Other income Total Additions Deductions	\$	2,299 8,414 783 261 11,757	\$ 2,209 8,414 20,092 193 30,908	\$	2,343 8,414 14,646 114 25,517	\$	2,524 8,414 (26,741) 83 (15,720)	\$ 1,416 7,613 (3,371) 5,658
Employee contributions Employer contributions Investment income (loss) Other income Total Additions Deductions Annuity benefits	\$	2,299 8,414 783 261 11,757	\$ 2,209 8,414 20,092 193 30,908	\$	2,343 8,414 14,646 114 25,517	\$	2,524 8,414 (26,741) 83 (15,720)	\$ 1,416 7,613 (3,371) 5,658
Employee contributions Employer contributions Investment income (loss) Other income Total Additions Deductions Annuity benefits Refunds	\$	2,299 8,414 783 261 11,757 15,171 134	\$ 2,209 8,414 20,092 193 30,908	\$	2,343 8,414 14,646 114 25,517	\$	2,524 8,414 (26,741) 83 (15,720)	\$ 1,416 7,613 (3,371) 5,658 12,848 211
Employee contributions Employer contributions Investment income (loss) Other income Total Additions Deductions Annuity benefits Refunds Death benefits	\$	2,299 8,414 783 261 11,757 15,171 134 134	\$ 2,209 8,414 20,092 193 30,908 14,750	\$	2,343 8,414 14,646 114 25,517 14,168	\$	2,524 8,414 (26,741) 83 (15,720) 13,484	\$ 1,416 7,613 (3,371) 5,658 12,848 211 256
Employee contributions Employer contributions Investment income (loss) Other income Total Additions Deductions Annuity benefits Refunds Death benefits Administrative & other expenses	\$	2,299 8,414 783 261 11,757 15,171 134 134 111	\$ 2,209 8,414 20,092 193 30,908 14,750 128 104	\$	2,343 8,414 14,646 114 25,517 14,168	\$	2,524 8,414 (26,741) 83 (15,720) 13,484 134 104	\$ 1,416 7,613 (3,371) 5,658 12,848 211 256 103
Employee contributions Employer contributions Investment income (loss) Other income Total Additions Deductions Annuity benefits Refunds Death benefits Administrative & other expenses Total Deductions	\$	2,299 8,414 783 261 11,757 15,171 134 134 111 15,550	\$ 2,209 8,414 20,092 193 30,908 14,750 128 104 14,982	\$	2,343 8,414 14,646 114 25,517 14,168 11 101 14,280	\$	2,524 8,414 (26,741) 83 (15,720) 13,484 134 104 13,722	\$ 1,416 7,613 (3,371) 5,658 12,848 211 256 103 13,418
Employee contributions Employer contributions Investment income (loss) Other income Total Additions Deductions Annuity benefits Refunds Death benefits Administrative & other expenses Total Deductions Net Increase (Decrease) in Net Position	\$	2,299 8,414 783 261 11,757 15,171 134 134 111 15,550	\$ 2,209 8,414 20,092 193 30,908 14,750 128 104 14,982	\$	2,343 8,414 14,646 114 25,517 14,168 11 101 14,280	\$	2,524 8,414 (26,741) 83 (15,720) 13,484 134 104 13,722	\$ 1,416 7,613 (3,371) 5,658 12,848 211 256 103 13,418

¹In accordance with GASB 67, Annuities reported in fiscal year 2013 were restated to include only DROP amounts actually distributed to participants as well as amounts due but not yet distributed. Also in accordance with GASB 67, RSIC administrative expenses previously classified as administrative expenses were reclassified as investment expenses for fiscal year 2013 to conform to the presentation for fiscal year 2014.

South Carolina National Guard Supplemental Retirement Plan 10 Year Schedule of Changes in Fiduciary Net Position

	2017		2016		2015		2014		2013 ¹	
Additions										
State appropriated contributions	\$	4,591	\$	4,591	\$	4,591	\$	4,586	\$	4,539
Investment income (loss)		2,533		(121)		313		2,806		1,671
Other income										
Total Additions		7,124		4,470		4,904		7,392		6,210
Deductions										
Annuity benefits		4,425		4,310		4,249		4,248		4,193
Administrative & other expenses		13		12		11_		10		10
Total Deductions		4,438		4,322		4,260		4,258		4,203
Net Increase (Decrease) in Net Position		2,686		148		644		3,134		2,007
Net Position Restricted for Pensions										
Beginning of year		23,350		23,202		22,558		19,424		17,417
End of year	\$	26,036	\$	23,350	\$	23,202	\$	22,558	\$	19,424
		2012		2011		2010		2009		2008
Additions										
State-appropriated contributions	\$	3,937	\$	3,904	\$	4,052	\$	4,052	\$	3,948
State-appropriated contributions Investment income (loss)	\$	3,937 94	\$	3,904 2,533	\$	4,052 1,865	\$	4,052 (4,020)	\$	3,948 (348)
• • •	\$,	\$	•	\$	•	\$	•	\$	•
Investment income (loss)	\$,	\$	•	\$	•	\$	•	\$	(348)
Investment income (loss) Other income	\$	94	\$	2,533	\$	1,865	\$ 	(4,020)	\$	(348) 50
Investment income (loss) Other income Total Additions	\$	94	\$	2,533	\$	1,865	\$	(4,020)	\$	(348) 50
Investment income (loss) Other income Total Additions Deductions	\$	94 - 4,031	\$	2,533	\$ 	1,865 - 5,917	\$	(4,020)	\$	(348) 50 3,650
Investment income (loss) Other income Total Additions Deductions Annuity benefits	\$ 	94 - 4,031 4,065	\$	2,533 - 6,437 4,011	\$	1,865 - 5,917 3,624	\$	(4,020) - 32 3,432	\$	(348) 50 3,650 3,199
Investment income (loss) Other income Total Additions Deductions Annuity benefits Administrative & other expenses	\$	94 - 4,031 4,065 15	\$ 	2,533 - 6,437 4,011 13	\$	1,865 - 5,917 3,624 13	\$ 	(4,020) - 32 3,432 15	\$	(348) 50 3,650 3,199 156
Investment income (loss) Other income Total Additions Deductions Annuity benefits Administrative & other expenses Total Deductions Net Increase (Decrease) in Net Position Net Position Restricted for Pensions	\$	94 - 4,031 4,065 15 4,080 (49)	\$ 	2,533 - 6,437 4,011 13 4,024 2,413	\$	1,865 - 5,917 3,624 13 3,637 2,280	\$	3,432 15 3,447 (3,415)	\$	(348) 50 3,650 3,199 156 3,355 295
Investment income (loss) Other income Total Additions Deductions Annuity benefits Administrative & other expenses Total Deductions Net Increase (Decrease) in Net Position	\$	94 - 4,031 4,065 15 4,080	\$ 	2,533 - 6,437 4,011 13 4,024	\$ 	1,865 - 5,917 3,624 13 3,637	\$	32 3,432 15 3,447	\$	(348) 50 3,650 3,199 156 3,355

¹In accordance with GASB 67, RSIC administrative expenses previously classified as administrative expenses were reclassified as investment expenses for fiscal year 2013 to conform to the presentation for fiscal year 2014.

Pension Trust Funds Additions by Source

Year Ended	Emp	oloyee	Ei	mployer	In	vestment				
June 30,	Contril	butions ¹	Cont	ributions 1	Inc	ome(Loss) ²	0	ther		Total
			South	Carolina Reti	rement Sy	stem (SCRS)				
2017	\$	826,543	\$	1,168,847	\$	2,791,215	\$	393	\$	4,786,998
2016		754,330		1,072,659		(165,394)		434		1,662,029
2015		716,114		1,022,478		374,152		507		2,113,251
2014		652,631		962,798		3,517,324		587		5,133,340
2013		674,783		948,157		2,195,648		657		3,819,245
2012		586,818		824,652		109,307		733		1,521,510
2011		562,222		808,343		3,598,069		832		4,969,466
2010		561,261		818,523		2,612,663		957		3,993,404
2009		564,953		827,502		(4,754,668)		L,152		(3,361,061)
2008		540,872		774,269		(641,196)	1	L,321		675,266
				Officer's Retir						
2017	\$	128,623	\$	192,501	\$	455,914	\$	15	\$	777,053
2016		115,910		175 <i>,</i> 675		(24,636)		18		266,967
2015		107,504		166,862		58,705		22		333,093
2014		97,418		156,454		538,386		26		792,284
2013		99,106		144,460		329,467		30		573,063
2012		85,701		134,991		17,198		34		237,924
2011		80,582		129,973		519,531		37		730,123
2010		77,844		123,636		362,566		42		564,088
2009		78,018		124,769		(638,389)		46		(435,556)
2008		76,907		114,862		(85,415)		52		106,406
						System (GARS)				2.2
2017	\$	487	\$	4,539	\$	3,329	\$	-	\$	8,355
2016		292		4,501		(266)				4,527
2015		369 399		4,275 4,063		500				5,144 9,007
2014 2013		1,286		2,835		4,545				7,232
2013		724		2,635 2,532		3,111 172				7,232 3,428
2012		625		2,414		5,682				8,721
2010		580		2,598		4,642				7,820
2009		790		2,495		(9,409)				(6,124)
2008		733		2,440		(1,136)				2,037
			Judges a	nd Solicitors R	Retirement	t System (JSRS)				
2017	\$	3,181	\$	10,534	\$	16,399	\$	_	\$	30,114
2016		2,330	•	10,202	•	(871)	-		•	11,661
2015		3,439		10,109		2,216				15,764
2014		2,632		9,670		19,962				32,264
2013		2,780		8,667		12,605				24,052
2012		2,560		8,414		783				11,757
2011		2,402		8,414		20,092				30,908
2010		2,457		8,414		14,646				25,517
2009		2,607		8,414		(26,741)				(15,720)
2008		1,416		7,613		(3,371)				5,658
		South Car		onal Guard Su		al Retirement Pl	an (SC	NG)		
2017	\$	-	\$	4,591	\$	2,533	\$	-	\$	7,124
2016				4,591		(121)				4,470
2015				4,591		313				4,904
2014				4,586		2,806				7,392
2013				4,539		1,671				6,210
2012				3,937		94				4,031
2011				3,904 4,052		2,533				6,437
2010 2009				4,052 4,052		1,865 (4,020)				5,917 32
2009				4,052 3,948		(4,020) (348)		50		32 3,650
2008				5,948		(348)		50		3,050

¹Includes transfers between systems. SCNG employer contributions are provided annually by a State appropriation.

²Includes unrealized gains and losses in accordance with GASB Statement 67 and RSIC administrative expenses previously classified as administrative expenses were reclassified as investment expenses for fiscal year 2013 to conform to the presentation for fiscal year 2014. This resulted in a decrease to Total Net Investment Income.

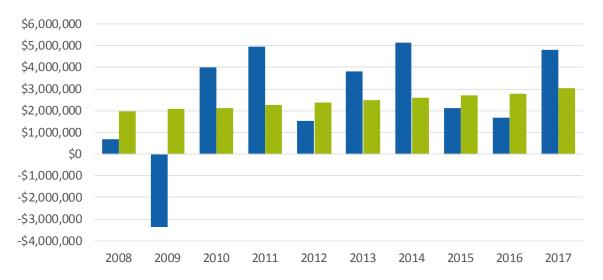
Pension Trust Funds Deductions by Type

Year Ended						Death		lministrative and Other		
June 30,	F	Refunds	Annı	uity Benefits		enefits		Expenses ¹		Total
,	-			n Carolina Retir						
2017 2016 2015 2014 2013 2012 2011 2010 2009 2008	\$	105,169 93,694 95,104 90,250 87,212 83,134 84,591 75,814 73,882 79,027	\$	2,907,666 2,668,819 2,590,806 2,462,146 2,368,510 2,256,519 2,134,031 2,014,418 1,956,446 1,853,892	\$	22,677 20,659 20,144 19,240 19,133 18,295 16,485 19,921 17,908 17,617	\$	15,019 14,323 13,890 14,235 16,629 21,683 20,467 19,593 20,371 20,752	\$	3,050,531 2,797,495 2,719,944 2,585,871 2,491,484 2,379,631 2,255,574 2,129,746 2,068,607 1,971,288
				Officer's Retir		<u> </u>			_	
2017 2016 2015 2014 2013 2012 2011 2010 2009 2008	\$	19,964 19,178 17,453 16,184 14,983 15,162 14,902 13,673 13,753	\$	354,749 339,536 324,829 313,216 297,631 265,582 244,443 224,977 211,873 195,989	\$	2,104 1,960 2,150 2,410 1,985 1,851 1,984 2,019 1,720 2,068	\$	2,149 2,082 1,938 1,820 2,006 2,872 2,735 2,577 2,537 2,505	\$	378,966 362,756 346,370 333,630 316,605 285,467 264,064 243,246 229,883 214,316
		(Genera	l Assembly Ret	tiremer	nt System (C	GARS)			
2017 2016 2015 2014 2013 2012 2011 2010 2009 2008	\$	22 41 3 31 57 4 33 102	\$	6,678 6,625 6,639 6,799 6,720 6,570 6,528 6,512 6,416 6,181	\$	59 9 21 20 16 35 58 6 14 28	\$	17 165 36 17 20 30 179 33 116 64	\$	6,754 6,821 6,696 6,877 6,759 6,666 6,822 6,555 6,579 6,375
				nd Solicitors R						
2017 2016 2015 2014 2013 2012 2011 2010 2009 2008	Ş	629 60 57 134 211	Ş	17,679 16,989 16,832 16,675 15,745 15,171 14,750 14,168 13,484 12,848	\$	293 143 4 10 134 134 128 11 134 256	\$	79 105 71 68 76 111 104 101 104	\$	18,680 17,297 16,907 16,753 16,012 15,550 14,982 14,280 13,722 13,418
		South Caroli	na Nati	onal Guard Su	ppleme	ental Retirer	ment F	Plan (SCNG)		
2017 2016 2015 2014 2013 2012 2011 2010 2009 2008	\$	-	\$	4,425 4,310 4,249 4,248 4,193 4,065 4,011 3,624 3,432 3,199	\$	-	\$	13 12 11 10 10 15 13 13 15 156	\$	4,438 4,322 4,260 4,258 4,203 4,080 4,024 3,637 3,447 3,355

¹In accordance with GASB 67, RSIC administrative expenses previously classified as administrative expenses were reclassified as investment expenses for fiscal year 2013 to conform to the presentation for fiscal year 2014.

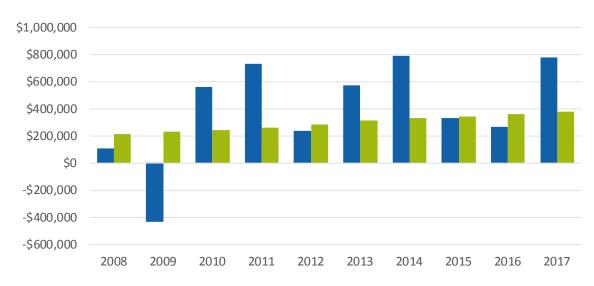
South Carolina Retirement System Pension Trust Funds Additions and Deductions

(Amounts expressed in thousands)



- Total Additions (Employee and Employer Contributions, Investment Income/Loss and Other)
- Total Deductions (Refunds, Annuity Benefits, Death Benefits & Administrative and Other Expenses)

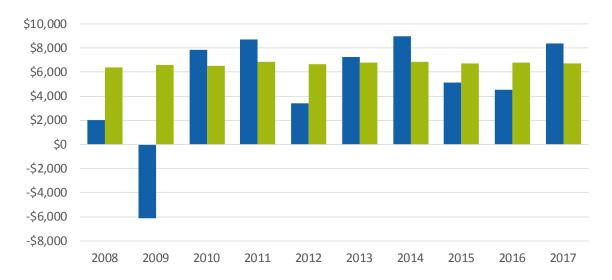
Police Officers Retirement System Pension Trust Funds Additions and Deductions



- Total Additions (Employee and Employer Contributions, Investment Income/Loss and Other)
- Total Deductions (Refunds, Annuity Benefits, Death Benefits & Administrative and Other Expenses)

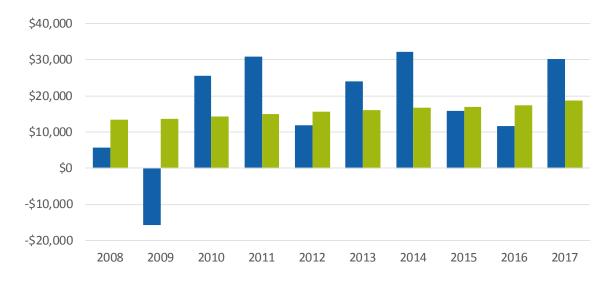
General Assembly Retirement System Pension Trust Funds Additions and Deductions

(Amounts expressed in thousands)



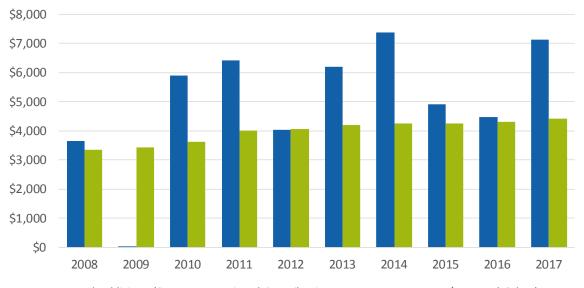
- Total Additions (Employee and Employer Contributions, Investment Income/Loss and Other)
- Total Deductions (Refunds, Annuity Benefits, Death Benefits & Administrative and Other Expenses)

Judges and Solicitors Retirement System Pension Trust Funds Additions and Deductions



- Total Additions (Employee and Employer Contributions, Investment Income/Loss and Other)
- Total Deductions (Refunds, Annuity Benefits, Death Benefits & Administrative and Other Expenses)

South Carolina National Guard Supplemental Retirement Plan Pension Trust Funds Additions and Deductions



- Total Additions (State Appropriated Contributions, Investment Income/Loss and Other)
- Total Deductions (Annuity Benefits & Administrative and Other Expenses)

Pension Trust Funds Benefit Expenses by Type

Year Ended		Re	funds				nuity Benefits			Death B	enef	its		
June 30,	M	ember	Survivo	r/Other		Member		rvivor/Other	-	Active	F	Retired		Total
				So	uth Ca	rolina Retire		System (SCRS)						
2017 2016 2015 2014 2013 1	\$	97,372 87,419 88,952 84,678 81,754	\$	7,797 6,275 6,152 5,572 5,458	\$	2,785,394 2,552,413 2,480,965 2,356,997 2,267,657	\$	122,272 116,406 109,841 105,149 100,853	\$	10,819 8,626 8,427 8,452 8,245	\$	11,858 12,033 11,717 10,788 10,888	\$	3,035,512 2,783,172 2,706,054 2,571,636 2,474,855
2012 2011 2010 2009 2008		77,707 79,238 70,917 68,762 74,233		5,427 5,353 4,897 5,120 4,794	ice Of	2,160,393 2,043,662 1,929,281 1,873,998 1,776,592	ment	96,126 90,369 85,137 82,448 77,300 System (PORS)		8,469 7,815 7,495 8,063 7,791		9,826 8,670 12,426 9,845 9,826		2,357,948 2,235,107 2,110,153 2,048,236 1,950,536
2017	<u> </u>	10.550	A					, , ,	_	00.4	_	4.470	<u> </u>	276 247
2017 2016 2015 2014 2013 2012 2011 2010 2009 2008	\$	19,663 18,565 16,603 15,551 14,246 14,618 14,518 13,300 13,243 13,438	\$	301 613 850 633 737 544 384 373 510 316	\$	334,460 320,079 306,383 295,566 280,699 249,123 228,739 210,242 197,529 182,229	\$	20,289 19,457 18,446 17,650 16,932 16,459 15,704 14,735 14,344 13,760	\$	934 971 976 1,192 1,020 872 912 1,086 936 1,174	\$	1,170 989 1,174 1,218 965 979 1,072 933 784 894	\$	376,817 360,674 344,432 331,810 314,599 282,595 261,329 240,669 227,346 211,811
				Gene				nt System (GARS)						
2017 2016 2015 2014 2013 2012 2011 2010	\$	22 41 7 45	\$	3 24 12 4	\$	5,550 5,469 5,443 5,587 5,554 5,389 5,359 5,296	\$	1,128 1,156 1,196 1,212 1,166 1,181 1,169 1,216	\$	45 22 45	\$	14 9 21 20 16 13 13 6	\$	6,737 6,656 6,660 6,860 6,739 6,636 6,643 6,522
2009 2008		33 55		47		5,187 5,016		1,229 1,165		22		14 6		6,463 6,311
					s and		tirem	ent System (JSRS))					
2017 2016 2015 2014 2013 ¹ 2012 2011	\$	- 57 83	\$	629 60 51	\$	15,755 15,193 14,996 14,839 13,997 13,322 12,864	\$	1,924 1,796 1,836 1,836 1,748 1,849	\$	286 134 131 130 127	\$	7 9 4 10 3 4	\$	18,601 17,192 16,836 16,685 15,936 15,439 14,878
2010 2009						12,213 11,668		1,955 1,816		130		11 4		14,179 13,618
2008				211		11,094		1,754		252		4		13,315
				n Carolina N				ental Retirement						
2017 2016 2015 2014 2013 2012 2011 2010 2009 2008	\$	-	\$	-	\$	4,424 4,309 4,248 4,247 4,192 4,064 4,010 3,623 3,431 3,198	\$	1 1 1 1 1 1 1 1	\$	-	\$	-	\$	4,425 4,310 4,249 4,248 4,193 4,065 4,011 3,624 3,432 3,199

¹In accordance with GASB 67, Annuities reported in fiscal year 2013 were restated to include only DROP amounts actually distributed to participants as well as amounts due but not yet distributed.

Operating Information

Operating Information is intended to provide contextual information about the Systems' operations and resources to assist readers in using financial statement information to comprehend and evaluate the Systems' fiscal state. Schedules containing operating information include retired members by type of benefit and retired members by years of service, and principal participating employers for the current fiscal year and ten years prior.

Although retirement types include service, disability and beneficiary payees, members retiring at normal retirement based on age and service represent the majority of the systems' annuitant payees. Various payment options are available at retirement; however, the majority of members elect to receive benefits under the maximum benefit level.

As of June 30, 2017, more than 164,000 retirees or their beneficiaries were receiving annuity benefits from the five plans. Benefit terms are prescribed in Title 9 of the South Carolina Code of Laws. PEBA does not have the authority to establish or amend benefit terms without a change in the code of laws. Key elements of the benefit calculation include the benefit multiplier, years of service and average final compensation/current annual salary.

South Carolina Retirement System Retired Members by Type of Benefit

As of June 30, 2017

	Number of													
Monthly	Annuitant													
Benefit ¹	<u>Payees</u>	Type 1	Type 2	Type 3	Type 4	Type 5	Opt 0	Opt 1	Opt 2	Opt 3	Opt 4	Opt 5	Opt 6	
\$ 1-\$ 500	26,759	20,258	256	2,638	2,574	1,033	18,333	107	1,403	463	244	4,450	1,759	
\$ 501 - \$1,000	25,864	18,080	777	1,948	4,329	730	17,940	101	1,017	374	473	3,945	2,014	
\$1,001 - \$1,500	19,668	14,292	1,186	1,219	2,656	315	12,750	67	622	191	875	3,222	1,941	
\$1,501 - \$2,000	16,878	13,275	1,213	765	1,484	141	10,025	60	401	172	1,377	2,987	1,856	
\$2,001 - \$2,500	17,964	15,530	976	480	914	64	10,264	59	235	135	1,516	3,460	2,295	
\$2,501 - \$3,000	15,839	14,543	451	279	543	23	10,757	46	174	91	603	2,346	1,822	
\$3,001 - \$3,500	7,509	6,920	159	184	229	17	4,776	24	138	69	308	1,255	939	
\$3,501 - \$4,000	4,051	3,777	72	95	103	4	2,474	7	92	44	176	673	585	
\$4,001 - \$4,500	2,431	2,274	37	71	46	3	1,486	10	64	39	82	397	353	
\$4,501 - \$5,000	1,360	1,283	22	29	23	3	765	6	38	32	37	270	212	
Over \$5,000	2,321	2,208	22	69	21	1	1,093	13	85	72	25	556	477	
Totals	140.644	112.440	5.171	7.777	12.922	2.334	90.663	500	4.269	1.682	5.716	23.561	14.253	

Type 1: Normal Retirement for Age and Service

Type 2: Early Retirement
Type 3: Beneficiary Payment²
Type 4: Disability Payment

Type 5: Beneficiary Payment, Disability Payment

Option 0: Maximum Benefit

Option 1: 10 Year Beneficiary Protection Option 2: Survivor Benefit, Full Payment

Option 3: Survivor Benefit, Half Payment

Option 4: Social Security Option

Option 5: Survivor Benefit, Full Payment, Revert to Maximum Option 6: Survivor Benefit, Half Payment, Revert to Maximum

Police Officers Retirement System Retired Members by Type of Benefit

As of June 30, 2017

	Number of											
Monthly	Annuitant											
Benefit ¹	Payees	Type 1	Type 2	Type 3	Type 4	Type 5	Opt 0	Opt 1	Opt 2	Opt 3	Opt 5	Opt 6
\$ 1-\$ 500	2,736	1,795	352	385	122	82	1,617	122	56	101	625	215
\$ 501 - \$1,000	3,225	2,057	224	409	430	105	1,931	163	57	126	626	322
\$1,001 - \$1,500	2,847	1,685	242	279	587	54	1,627	94	56	150	580	340
\$1,501 - \$2,000	2,899	1,849	240	161	626	23	1,626	62	37	227	575	372
\$2,001 - \$2,500	2,547	1,844	140	82	468	13	1,494	38	14	123	512	366
\$2,501 - \$3,000	1,711	1,344	68	40	256	3	1,046	22	17	85	301	240
\$3,001 - \$3,500	887	743	24	23	95	2	594	13	12	25	131	112
\$3,501 - \$4,000	540	471	8	7	54		374	5	6	14	60	81
\$4,001 - \$4,500	290	264	1	5	20		193	4	1	6	41	45
\$4,501 - \$5,000	146	138		1	7		92	1	7	4	14	28
Over \$5,000	200	192	2	3	3		137	4	3	5	11	40
Totals	18,028	12,382	1,301	1,395	2,668	282	10,731	528	266	866	3,476	2,161

Type 1: Normal Retirement for Age and Service

Option 0: Maximum Benefit

Type 2: Early Retirement
Type 3: Beneficiary Payment²

Option 1: Survivor Benefit, Full Payment
Option 2: Survivor Benefit, Half Payment

Type 4: Disability Payment

Option 3: Social Security Option

Type 5: Beneficiary Payment, Disability Payment

Option 5: Survivor Benefit, Full Payment, Revert to Maximum Option 6: Survivor Benefit, Half Payment, Revert to Maximum

¹Monthly benefit amounts represent current payment levels for all annuitant payees receiving monthly benefits, including any applicable benefit adjustments.

²Beneficiary payments include payments to alternate payees in accordance with Qualified Domestic Relations Orders.

General Assembly Retirement System Retired Members by Type of Benefit

As of June 30, 2017

Monthly Benefit ¹	Number of Annuitant <u>Payees</u>	Type 1	Type 2	Type 3	Type 4	Type 5	Opt 0	Opt 1	Opt 2	<u>Opt 5</u>	Opt 6
\$ 1-\$ 500	32	10	4	18			9	9	4	4	6
\$ 501 - \$1,000	65	37	5	23			23	17	4	14	7
\$1,001 - \$1,500	69	46	6	17			23	22	10	7	7
\$1,501 - \$2,000	107	73	23	11			44	30	12	14	7
\$2,001 - \$2,500	45	31	6	8			18	10	4	10	3
\$2,501 - \$3,000	25	22	1	2			10	5	2	6	2
\$3,001 - \$3,500	11	7	1	3			5	4	1	1	
\$3,501 - \$4,000	3	2		1				3			
\$4,001 - \$4,500	2	2					2				
\$4,501 - \$5,000											
Over \$5,000											
Totals	359	230	46	83			134	100	37	56	32

Type 1: Normal Retirement for Age and Service

Type 2: Early Retirement

Type 3: Beneficiary Payment2

Type 4: Disability Payment

Type 5: Beneficiary Payment, Disability Payment

Option 0: Maximum Benefit

Option 1: Survivor Benefit, Full Payment

Option 2: Survivor Benefit, Half Payment

Option 5: Survivor Benefit, Full Payment, Revert to Maximum

Option 6: Survivor Benefit, Half Payment, Revert to Maximum

Judges and Solicitors Retirement System Retired Members by Type of Benefit

As of June 30, 2017

	Number of							
Monthly	Annuitant							
Benefit ¹	<u>Payees</u>	Type 1	Type 2	Type 3	Type 4	Type 5	Opt 0	Opt 1
\$ 1-\$ 500	1	1					1	
\$ 501 - \$1,000	10			10				10
\$1,001 - \$1,500	1			1			1	
\$1,501 - \$2,000	5			5			2	3
\$2,001 - \$2,500	3			3			2	1
\$2,501 - \$3,000	27	1		26			26	1
\$3,001 - \$3,500	13	1		12			12	1
\$3,501 - \$4,000	4	1		3			3	1
\$4,001 - \$4,500	2	1		1			2	
\$4,501 - \$5,000	3	3					3	
Over \$5,000	144	143		1			137	7
Totals	213	151		62			189	24

Type 1: Normal Retirement for Age and Service

Type 2: Early Retirement

Type 3: Beneficiary Payment2
Type 4: Disability Payment

Type 5: Beneficiary Payment, Disability Payment

Option 0: Maximum Benefit with Spouse Beneficiary
Option 1: Reduced Benefit with Non-Spouse Beneficiary

¹Monthly benefit amounts represent current payment levels for all annuitant payees receiving monthly benefits, including any applicable benefit adjustments. ²Beneficiary payments include payments to alternate payees in accordance with Qualified Domestic Relations Orders.

South Carolina National Guard Supplemental Retirement Plan Retired Members by Type of Benefit

As of June 30, 2017

	Number of		
Monthly	Annuitant		
Benefit ¹	<u>Payees</u>	Type 1	Opt 0
\$ 1-\$ 500 \$ 501-\$1,000 \$1,001-\$1,500 \$1,501-\$2,000 \$2,001-\$2,500 \$2,501-\$3,000 \$3,001-\$3,500 \$3,501-\$4,000 \$4,001-\$4,500 \$4,501-\$5,000 Over\$5,000	4,803	4,803	4,803
Totals	4,803	4,803	4,803

Type 1: Normal Retirement for Age and Service

Option 0: Maximum Benefit

¹Monthly benefit amounts represent current payment levels for all annuitant payees receiving monthly benefits, including any applicable benefit adjustments.

South Carolina Retirement System Retired Members by Years of Service

	Years of Credited Service											
		0 to 5		5+ to 10		10+ to 15		15+ to 20	20+ to 25	25+ to 30	30 Plus	Avgs/Tot
Period 07/01/2007 to 06/30/2008 Average Monthly benefit Average AFC Number of Retired members	\$ \$	176.70 31,761.84 120	\$ \$	364.13 30,201.39 794	\$ \$	595.88 33,050.24 878	\$ \$	909.41 36,763.05 675	. ,	\$ 2,044.18 \$ 50,516.64 2,478	\$ 2,679.92 \$ 58,801.46 404	\$ 1,403.35 \$ 42,826.60 5,917
Period 07/01/2008 to 06/30/2009 Average Monthly benefit Average AFC Number of Retired members	\$ \$	185.74 28,729.29 121	\$ \$	367.59 30,154.09 786	\$	618.72 34,626.66 892	\$ \$	946.54 38,205.49 689	\$ 1,303.52 \$ 42,049.14 645	\$ 2,165.04 \$ 53,625.28 2,197	\$ 2,970.18 \$ 65,133.55 451	\$ 1,462.10 \$ 44,749.97 5,781
Period 07/01/2009 to 06/30/2010 Average Monthly benefit Average AFC Number of Retired members	\$ \$	208.16 31,836.52 123	\$ \$	383.06 30,557.99 826	\$ \$	645.01 35,746.52 1,023	\$ \$	981.09 40,111.25 750	\$ 1,344.74 \$ 43,257.40 729	\$ 2,221.16 \$ 55,242.31 2,123	\$ 2,908.79 \$ 63,116.06 597	\$ 1,485.99 \$ 45,746.76 6,171
Period 07/01/2010 to 06/30/2011 Average Monthly benefit Average AFC Number of Retired members	\$ \$	201.31 30,617.92 148	\$	377.33 31,040.25 905	\$	657.18 35,794.70 1,102	\$ \$	1,009.75 40,266.56 845	\$ 1,368.58 \$ 43,960.69 757	\$ 2,283.04 \$ 56,937.57 1,901	\$ 2,888.47 \$ 63,063.96 587	\$ 1,444.41 \$ 45,577.10 6,245
Period 07/01/2011 to 06/30/2012 Average Monthly benefit Average AFC Number of Retired members	\$ \$	157.11 33,828.02 170	\$ \$	383.35 33,025.61 1,027	\$ \$	676.41 37,652.63 1,369	\$ \$	1,059.95 43,506.61 1,006	\$ 1,359.51 \$ 44,316.00 1,048	\$ 2,311.68 \$ 57,935.75 3,291	\$ 2,875.91 \$ 62,247.34 1,204	\$ 1,635.53 \$ 49,044.18 9,115
Period 07/01/2012 to 06/30/2013 Average Monthly benefit Average AFC Number of Retired members	\$ \$	163.89 33,386.42 126	\$ \$	374.75 32,997.75 1,058	\$ \$	667.88 36,736.51 1,206	\$ \$	1,019.03 41,833.35 937		\$ 2,306.62 \$ 56,973.61 3,366	\$ 2,939.99 \$ 62,374.56 1,143	\$ 1,669.18 \$ 48,830.49 8,668
Period 07/01/2013 to 06/30/2014 Average Monthly benefit Average AFC Number of Retired members	\$ \$	171.12 38,671.40 109	\$ \$	412.43 37,728.77 965	\$ \$	699.63 39,320.54 1,050	\$ \$	1,043.84 43,553.62 1,004	\$ 1,432.54 \$ 46,362.79 755	\$ 2,189.67 \$ 54,791.47 2,159	\$ 3,085.95 \$ 65,219.09 533	\$ 1,468.16 \$ 47,710.77 6,575
Period 07/01/2014 to 06/30/2015 Average Monthly benefit Average AFC Number of Retired members	\$ \$	99.03 32,198.66 105	\$ \$	348.85 35,062.59 903	\$	622.23 37,734.08 1,026	\$ \$	948.48 41,754.51 900	\$ 1,397.50 \$ 47,613.22 777	\$ 2,172.19 \$ 54,492.07 2,018	\$ 2,909.38 \$ 60,744.27 394	\$ 1,377.28 \$ 46,093.47 6,123
Period 07/01/2015 to 06/30/2016 Average Monthly benefit Average AFC Number of Retired members	\$ \$	120.76 35,061.28 76	\$ \$	384.04 37,362.67 827	\$ \$	650.17 39,284.17 1,057	\$ \$	981.56 42,814.57 980	\$ 1,427.23 \$ 48,552.48 762	\$ 2,167.94 \$ 54,353.63 1,903	\$ 2,842.28 \$ 59,958.01 329	\$ 1,369.09 \$ 46,714.42 5,934
Period 07/01/2016 to 06/30/2017 Average Monthly benefit Average AFC Number of Retired members	\$ \$	121.22 38,122.61 93	\$ \$	362.56 36,128.59 767	\$	637.87 38,938.96 966	\$ \$	980.90 42,544.29 838	\$ 1,435.95 \$ 48,347.02 719	\$ 2,227.14 \$ 55,499.88 1,631	\$ 2,932.01 \$ 60,683.69 378	\$ 1,391.09 \$ 46,873.78 5,392
Ten year Averages Average Monthly benefit Average AFC Number of Retired members	\$ \$	164.51 33,164.68 1,191	\$ \$	376.47 33,475.50 8,858	\$ \$	649.73 36,987.00 10,569	\$ \$	992.79 41,411.68 8,624	\$ 1,375.65 \$ 45,121.03 7,592	\$ 2,216.09 \$ 55,194.81 23,067	\$ 2,908.94 \$ 62,364.17 6,020	\$ 1,487.14 \$ 46,650.46 65,921

Note: Benefit amounts represent original monthly benefit at retirement for all retirees who retired during the referenced period and, for comparison purposes, do not include benefit adjustments. Although a member's retirement eligibility and AFC may include service from other correlated Systems, the Years of Credited Service in this schedule represents only service credit used for calculating the monthly benefit under this respective System.

Police Officers Retirement System Retired Members by Years of Service

							Υ	ears of Cred	dite	d Service					
		0 to 5		5+ to 10		10+ to 15		15+ to 20		20+ to 25		25+ to 30		30 Plus	Avgs/Tot
Period 07/01/2007 to 06/30/2008 Average Monthly benefit Average AFC Number of Retired members	\$ \$	339.75 38,746.31 72		672.20 36,996.15 132	\$ \$	1,029.33 39,502.53 119	\$ \$	1,338.21 41,671.69 97		1,913.22 47,970.26 98	\$ \$	2,437.16 54,925.42 197	\$	3,760.37 69,695.78 38	\$ 1,561.75 \$ 45,930.96 753
Period 07/01/2008 to 06/30/2009 Average Monthly benefit Average AFC Number of Retired members	\$	359.33 41,358.25 67	\$	666.06 40,388.45 133	\$ \$	1,060.74 41,602.78 136	\$	1,460.31 43,217.29 88	\$ \$	1,945.46 49,465.82 106	\$ \$	2,549.57 56,365.99 272		3,777.66 67,110.63 63	\$ 1,760.83 \$ 49,025.04 865
Average Monthly benefit Average AFC Number of Retired members	\$ \$	417.61 40,722.91 80		699.54 39,473.83 121	\$ \$	984.23 40,088.38 127	\$	1,357.38 42,712.24 129	\$ \$	1,975.74 48,826.52 120	\$ \$	2,447.52 55,428.90 240	\$	3,581.54 63,527.80 47	\$ 1,633.07 \$ 47,202.77 864
Period 07/01/2010 to 06/30/2011 Average Monthly benefit Average AFC Number of Retired members Period 07/01/2011 to 06/30/2012	\$ \$	247.37 37,600.27 92	\$	708.00 39,952.37 157	\$	1,021.53 40,400.70 181	\$	1,474.19 44,622.87 117	\$ \$	1,929.16 47,089.42 145	\$ \$	2,482.99 55,621.41 274	\$	3,569.41 65,042.40 40	\$ 1,584.62 \$ 46,655.15 1,006
Average Monthly benefit Average AFC Number of Retired members Period 07/01/2012 to 06/30/2013	\$ \$	298.11 44,750.04 125		714.20 39,977.95 200	\$ \$	1,052.50 42,779.30 184	\$	1,427.66 43,692.98 156	\$ \$	2,045.54 51,114.24 217	\$ \$	2,498.87 56,323.94 552	\$	3,609.15 66,397.34 67	\$ 1,773.18 \$ 49,905.44 1,501
Average Monthly benefit Average AFC Number of Retired members	\$ \$	225.26 45,104.35 80	\$	644.56 38,218.81 170	\$	1,061.28 41,442.32 164	\$	1,544.22 47,487.15 161	\$	1,920.39 48,478.52 185	\$	2,419.31 54,611.27 421		3,640.68 68,020.52 25	\$ 1,670.88 \$ 48,265.26 1,206
Period 07/01/2013 to 06/30/2014 Average Monthly benefit Average AFC Number of Retired members	\$ \$	271.83 43,936.82 86	\$ \$	869.08 40,535.67 144	\$ \$	1,200.91 43,476.29 147	\$ \$	1,448.09 45,089.53 125	\$ \$	2,051.64 50,432.14 85	\$ \$	2,363.73 52,417.06 145	\$ \$	4,282.03 76,060.04 22	\$ 1,481.97 \$ 46,688.91 754
Average AFC Number of Retired members	\$ \$	233.65 40,223.03 60	\$	719.35 39,792.49 173	\$ \$	994.86 42,077.87 131	\$	1,378.34 43,569.64 152	\$ \$	1,922.56 49,715.38 145	\$ \$	2,562.22 57,066.54 176		3,469.56 66,611.71 28	\$ 1,508.86 \$ 46,878.43 865
Period 07/01/2015 to 06/30/2016 Average Monthly benefit Average AFC Number of Retired members	\$ \$	278.10 43,963.21 66	\$ \$	763.54 41,074.05 152	\$ \$	1,097.95 42,664.16 137	\$ \$	1,444.82 45,791.64 128	\$ \$	2,029.49 52,667.52 118	\$ \$	2,457.14 54,743.27 204	\$	3,375.67 61,777.51 35	\$ 1,581.73 \$ 48,090.19 840
Period 07/01/2016 to 06/30/2017 Average Monthly benefit Average AFC Number of Retired members	\$ \$	251.29 43,017.93 77	\$	748.07 41,435.40 125	\$ \$	1,099.68 44,274.34 151	\$	1,558.74 48,274.71 139	\$	1,954.84 50,662.52 135	\$ \$	2,581.84 56,995.71 214	\$	3,692.66 69,973.66 60	\$ 1,702.05 \$ 50,080.31 901
Ten year Averages Average Monthly benefit Average AFC Number of Retired members	\$ \$	292.04 42,094.65 805	\$	719.77 39,775.36 1,507	\$ \$	1,061.40 41,885.47 1,477	\$ \$	1,446.87 44,789.87 1,292	\$	1,969.15 49,661.93 1,354	\$ \$	2,481.16 55,579.75 2,695	\$	3,660.91 67,087.83 425	\$ 1,639.52 \$ 48,048.46 9,555

Note: Benefit amounts represent original monthly benefit at retirement for all retirees who retired during the referenced period and, for comparison purposes, do not include benefit adjustments. Although a member's retirement eligibility and AFC may include service from other correlated Systems, the Years of Credited Service in this schedule represents only service credit used for calculating the monthly benefit under this respective System.

General Assembly Retirement System Retired Members by Years of Service

	Years of Credited Service										
	0 to 5	5+ to 10	10+ to 15	15+ to 20	20+ to 25	25+ to 30	30 Plus	Avgs/Tot			
Period 07/01/2007 to 06/30/2008 Average Monthly benefit Average AFC Number of Retired members	\$ 319.69 \$ 22,400.00 1		\$ 969.43 \$ 22,400.00 2	+ -,	\$ 22,400.00	\$ 2,095.51 \$ 22,400.00 1	\$ 2,555.55 \$ 22,400.00 3	\$ 1,687.41 \$ 22,400.00 17			
Period 07/01/2008 to 06/30/2009 Average Monthly benefit Average AFC Number of Retired members		\$ 683.40 \$ 22,400.00 2	\$ 971.68 \$ 22,400.00 3	, ,-	\$ 22,400.00	\$ 2,416.04 \$ 22,400.00 2	\$ 2,590.37 \$ 22,400.00 2	\$ 1,587.90 \$ 22,400.00 20			
Period 07/01/2009 to 06/30/2010 Average Monthly benefit Average AFC Number of Retired members				\$ 1,298.78 \$ 22,400.00)	\$ 2,476.92 \$ 22,400.00 2		\$ 1,887.50 \$ 22,400.00 4			
Period 07/01/2010 to 06/30/2011 Average Monthly benefit Average AFC Number of Retired members	\$ 132.70 \$ 22,400.00 1		\$ 1,068.00 \$ 22,400.00 3	\$ 22,400.00	\$ 22,400.00	\$ 2,838.65 \$ 24,200.00 2	\$ 3,207.33 \$ 27,900.00 2	\$ 1,852.00 \$ 23,727.27 11			
Period 07/01/2011 to 06/30/2012 Average Monthly benefit Average AFC Number of Retired members		\$ 719.79 \$ 22,400.00 1	\$ 1,097.69 \$ 22,400.00 5		\$ 22,400.00		\$ 2,092.90 \$ 22,400.00 1	\$ 1,468.33 \$ 22,400.00 12			
Period 07/01/2012 to 06/30/2013 Average Monthly benefit Average AFC Number of Retired members		\$ 831.73 \$ 22,400.00 1	\$ 1,039.12 \$ 22,400.00 5	, ,	\$ 22,400.00	\$ 1,886.18 \$ 22,400.00 3	\$ 2,305.65 \$ 22,400.00 4	\$ 1,652.52 \$ 22,400.00 19			
Period 07/01/2013 to 06/30/2014 Average Monthly benefit Average AFC Number of Retired members	\$ 152.97 \$ 22,400.00 1	\$ 539.84 \$ 22,400.00 1			\$ 2,313.46 \$ 26,000.00 1		\$ 2,547.40 \$ 22,400.00 1	\$ 1,387.75 \$ 23,300.00 4			
Period 07/01/2014 to 06/30/2015 Average Monthly benefit Average AFC Number of Retired members			\$ 997.75 \$ 22,400.00 3	\$ 1,281.62 \$ 22,400.00	\$ 22,400.00	\$ 2,256.56 \$ 22,400.00 1		\$ 1,440.18 \$ 22,400.00 11			
Period 07/01/2015 to 06/30/2016 Average Monthly benefit Average AFC Number of Retired members	\$ 407.65 \$ 22,400.00 1				\$ 1,798.98 \$ 22,400.00 2	\$ 3,194.91 \$ 33,400.00 1		\$ 1,799.50 \$ 25,150.00 4			
Period 07/01/2016 to 06/30/2017 Average Monthly benefit Average AFC Number of Retired members	\$ 342.95 \$ 26,000.00 1		\$ 1,169.65 \$ 22,400.00 1	\$ 22,400.00	\$ 22,400.00	\$ 1,696.83 \$ 22,400.00 3	\$ 2,193.18 \$ 22,400.00 1	\$ 1,525.90 \$ 22,760.00 10			
Ten year Averages Average Monthly benefit Average AFC Number of Retired members	\$ 271.19 \$ 23,120.00 5	\$ 691.63 \$ 22,400.00 5	\$ 1,041.13 \$ 22,400.00 22	\$ 22,400.00	\$ 22,524.13	\$ 2,250.61 \$ 23,373.33 15	\$ 2,522.72 \$ 23,185.71 14	\$ 1,618.39 \$ 22,692.85 112			

Note: Benefit amounts represent original monthly benefit at retirement for all retirees who retired during the referenced period and, for comparison purposes, do not include benefit adjustments. Although a member's retirement eligibility and AFC may include service from other correlated Systems, the Years of Credited Service in this schedule represents only service credit used for calculating the monthly benefit under this respective System.

Judges and Solicitors Retirement System Retired Members by Years of Service

	Years of Credited Service													
_	0 to 5	5+ to 10		10+ to 15		15+ to 20		20+ to 25		25+ to 30		30 Plus		Avgs/Tot
Period 07/01/2007 to 06/30/2008 Average Monthly benefit Average AFC			\$ \$	4,079.72 127,165.50		7,867.78 132,417.00			\$ \$	8,215.93 125,627.00	\$	9,343.57 127,890.33	\$ \$	8,030.20 127,971.70
Number of Retired members			ڔ	2	ڔ	1			ڔ	123,027.00	٧	6	ڔ	10
Period 07/01/2008 to 06/30/2009 Average Monthly benefit Average AFC			\$ \$	7,742.70 130,312.00			\$ \$	6,985.17 128,026.00		8,743.82 130,312.00		9,446.04 128,597.50	\$ \$	8,358.22 128,788.00
Number of Retired members Period 07/01/2009 to 06/30/2010				1				3		1		4		9
Average Monthly benefit Average AFC Number of Retired members							\$ \$,	\$ \$	8,092.11 128,026.00 3	\$ \$	9,773.78 131,683.80 5	\$ \$	8,822.10 129,626.30 10
Period 07/01/2010 to 06/30/2011 Average Monthly benefit							\$	7,730.82	\$	8,138.15	\$		\$	8,508.22
Average AFC Number of Retired members							\$	129,454.75 4	\$	130,312.00 1	\$	127,740.25 4	\$	128,788.00 9
Period 07/01/2011 to 06/30/2012 Average Monthly benefit Average AFC Number of Retired members					\$ \$	5,654.22 126,883.00 1			\$ \$	7,647.17 126,883.00 2	\$ \$	9,687.67 129,169.00 3	\$ \$	8,335.16 128,026.00 6
Period 07/01/2012 to 06/30/2013 Average Monthly benefit Average AFC Number of Retired members			\$ \$	4,309.38 130,689.00 2	\$ \$		\$	7,905.00 133,043.66 3			\$	10,490.48 139,873.00 1	\$ \$	7,256.71 133,514.71 7
Period 07/01/2013 to 06/30/2014 Average Monthly benefit Average AFC Number of Retired members					\$ \$	6,962.75 132,455.00 2	\$ \$	7,765.10 130,689.00 1		9,405.95 134,221.00 1	\$ \$	10,066.58 134,221.00 2	\$ \$	8,538.00 133,043.66 6
Period 07/01/2014 to 06/30/2015 Average Monthly benefit Average AFC Number of Retired members					\$	7,920.42 133,303.00 1		7,931.71 135,705.00 3		8,891.35 136,905.50 2	\$ \$	10,808.40 144,112.00 1	\$	8,615.00 136,905.85 7
Period 07/01/2015 to 06/30/2016 Average Monthly benefit Average AFC Number of Retired members											\$ \$	9,808.35 136,906.00 6	\$ \$	9,808.35 136,906.00 6
Period 07/01/2016 to 06/30/2017 Average Monthly benefit Average AFC Number of Retired members		\$ 2,827.77 \$141,354.00 1					\$	6,449.04 137,634.00 1		8,983.69 141,354.00 2	\$	10,880.55 145,074.00 1	\$	7,624.60 141,354.00 5
Ten year Averages Average Monthly benefit Average AFC Number of Retired members		\$ 2,827.77 \$141,354.00 1	\$	4,904.18 129,204.20 5	\$ \$	7,223.81 131,955.66 6	\$	7,569.47 131,190.11 17		8,448.04 131,910.38 13	\$ \$	9,710.72 132,047.15 33	\$ \$	8,395.34 131,756.42 75

Note: Benefit amounts represent original monthly benefit at retirement for all retirees who retired during the referenced period and, for comparison purposes, do not include benefit adjustments.

South Carolina National Guard Supplemental Retirement Plan Retired Members by Years of Service

					Years of	Credi	ted Servi	ce					
	0 to 5	5+ to 10	10+ to 15	15	+ to 20	20	+ to 25	2	5+ to 30	3	0 Plus	A۱	/gs/Tot
Period 07/01/2007 to 06/30/2008													
Average Monthly benefit				\$	50.00	\$	61.76	\$	90.06	\$	100.00	\$	74.13
Average AFC													
Number of Retired members					61		170		75		92		398
Period 07/01/2008 to 06/30/2009													
Average Monthly benefit				\$	50.00	\$	60.90	\$	90.77	\$	100.00	\$	73.28
Average AFC													
Number of Retired members					60		143		71		72		346
Period 07/01/2009 to 06/30/2010													
Average Monthly benefit				\$	50.00	\$	61.55	\$	90.29	\$	100.00	\$	73.43
Average AFC													
Number of Retired members					59		135		51		80		325
Period 07/01/2010 to 06/30/2011													
Average Monthly benefit				\$	50.00	Ş	61.42	Ş	88.15	\$	100.00	Ş	76.17
Average AFC					20		446		65		02		202
Number of Retired members					39		116		65		82		302
Period 07/01/2011 to 06/30/2012				ċ	FO 00	ċ	c2 2C	Ļ	04.03	ċ	100.00	<u>۸</u>	72.42
Average Monthly benefit				\$	50.00	\$	62.26	\$	91.02	>	100.00	>	73.43
Average AFC					40		100		20		63		256
Number of Retired members					49		106		39		62		256
Period 07/01/2012 to 06/30/2013				\$	50.00	ć	61.66	\$	88.15	ć	100.00	ċ	72.75
Average Monthly benefit				Ş	50.00	Ş	01.00	Ş	00.13	Ş	100.00	Ş	72.75
Average AFC Number of Retired members					47		105		46		56		254
Period 07/01/2013 to 06/30/2014					4/		105		40		30		254
Average Monthly benefit				\$	50.00	ċ	61.96	\$	90.71	Ċ	100.00	ċ	71.78
Average AFC				۲	30.00	Ų	01.90	ڔ	30.71	Ų	100.00	Ų	71.70
Number of Retired members					34		79		28		35		176
Period 07/01/2014 to 06/30/2015					34		73		20		33		170
Average Monthly benefit				\$	50.00	Ś	62.58	\$	90.58	Ś	100.00	Ś	76.89
Average AFC				Ψ.	50.00	Υ	02.00	Υ	30.30	Υ	200.00	Ť	7 0.03
Number of Retired members					23		62		34		45		164
Period 07/01/2015 to 06/30/2016													
Average Monthly benefit				\$	50.00	Ś	61.43	\$	89.45	Ś	100.00	Ś	73.78
Average AFC				•		•		•		•		•	
Number of Retired members					27		87		46		38		198
Period 07/01/2016 to 06/30/2017													
Average Monthly benefit				\$	50.00	\$	61.79	\$	90.32	\$	100.00	\$	73.06
Average AFC													
Number of Retired members					26		89		46		30		191
Ten year Averages													
Average Monthly benefit				\$	50.00	\$	61.66	\$	89.88	\$	100.00	\$	73.87
Average AFC													
Number of Retired members					425		1,092		501		592		2,610

Note: Benefit amounts represent original monthly benefit at retirement for all retirees who retired during the referenced period.

South Carolina Retirement System Principal Participating Employers in Fiscal Year 2017 and Ten Years Prior Fiscal Year 2008

	Fiscal Year 2017					Fiscal Year 2008				
			Percentage	Total	Total	Percentage			Total	Total
	Covered		of Total	Active	Working	Covered		of Total	Active	Working
Participating Government	Employees ¹	Rank	System	Members	Retirees	Employees ¹	Rank	<u>System</u>	Members	Retirees
State Agency ²	33,118	1	14.14%	28,727	4,391	37,206	1	16.26%	32,200	5,006
School District of Greenville County	9,104	2	3.88%	7,869	1,235	9,339	2	4.08%	8,069	1,270
Lexington Medical Center	6,171	3	2.63%	5,979	192	3,694		1.62%	3,553	141
Horry County School District	6,083	4	2.59%	5,477	606	4,884	5	2.13%	4,424	460
University of South Carolina	5,550	5	2.37%	4,596	954	5,477	4	2.39%	4,458	1,019
MUSC Hospital	5,215	6	2.22%	4,924	291	4,815	6	2.10%	4,575	240
Charleston County School District	5,015	7	2.14%	4,500	515	5,715	3	2.49%	5,015	700
Spartanburg Regional Medical Center	4,710	8	2.01%	4,365	345	4,637	7	2.02%	4,436	201
Richland County School District 1	4,516	9	1.92%	3,750	766	4,310	8	1.88%	3,573	737
Berkeley County Department of Education	4,127	10	1.76%	3,700	427	3,718	9	1.62%	3,250	468
Clemson University	3,706		1.58%	3,179	527	3,706	10	1.62%	3,102	604
All Other	146,788		62.76%	129,790	16,998	141,205		61.79%	125,437	15,768
Total ³	234,103		100.00%	206,856	27,247	228,706		100.00%	202,092	26,614
	In 2017, "All (Other" co	onsisted of:			In 2008, "All	Other" o	consisted of:		
	Туре	<u>Number</u>	Employees			Туре	Number	<u>Employees</u>		
Quasi-St	ate/Higher Ed	29	15,881		Quasi-St	ate/Higher Ed	31	14,837		
	City/County	576	56,109			City/County	583	52,082		
I	Public Schools _	113	74,798		F	ublic Schools	101	74,286	-	
	Total	718	146,788			Total	715	141,205		

¹Employers are considered to be participating employers if they submit contributions for an active member or working retiree during the fiscal year. The number of covered employees represents the total number of employees reported by the employer throughout the fiscal year which includes working retirees and TERI participants.

²Although each state agency reports separately, the State is considered the primary government and therefore, all state agencies are included as a single employer. Quasi-State Agencies and Institutions of Higher Education are counted as separate employers and included within the "State" category.

³Fiscal Year 2017 total includes 729 governmental entities and fiscal year 2008 total includes 726 governmental entities.

Police Officers Retirement System Principal Participating Employers in Fiscal Year 2017 and Ten Years Prior Fiscal Year 2008

	Fiscal Year 2017						Fisc	al Year 200	8	
Participating Government	Covered Employees ¹	<u>Rank</u>	Percentage of Total <u>System</u>	Total Active Members	Total Working Retirees	Covered Employees ¹	<u>Rank</u>	Percentage of Total <u>System</u>		Total Working Retirees
State Agency ²	10,245	1	4.37%	9,391	. 854	11,501	1	37.63%	10,674	827
County Council of Richland County	991	2	0.42%	833	158	915	2	2.99%	814	101
Horry County Council	974	3	0.41%	892	82	793	5	2.59%	763	30
City of Columbia	894	4	0.38%	815	79	844	3	2.76%	799	45
Greenville County Council	892	5	0.38%	760	132	816	4	2.67%	725	91
City of Charleston	826	6	0.35%	783	43	662	7	2.16%	607	55
County of Charleston	770	7	0.32%	648	122	710	6	2.32%	627	83
County of Lexington	694	8	0.29%	624	70	532	8	1.74%	478	54
City of North Charleston	633	9	0.27%	611	. 22	528	9	1.72%	507	21
Spartanburg County Council	562	10	0.24%	437	125	521	10	1.70%	443	78
All Other	15,041		92.57%	13,041	2,000	12,739		41.72%	11,540	1,199
Total ³	32,522		100.00%	28,835	3,687	30,561		100.00%	27,977	2,584

In 2017, "All Other" consisted of:

In 2008, "All Other" consisted of:

<u>Type</u>	Number	Employees	<u>Type</u>	Number	<u>Employees</u>
Quasi-State/Higher Ed	29	636	Quasi-State/Higher Ed	26	558
City/County	324	14,213	City/County	292	12,069
Public Schools	53	192	Public Schools	49	112
Total	406	15,041	Total	367	12,739

¹The number of covered employees represents the total number of employees reported by the employer throughout the fiscal year which includes working retirees.

²Although each state agency reports separately, the State is considered the primary government and therefore, all state agencies are included as a single employer. Quasi-State Agencies and Institutions of Higher Education are counted as separate employers and included within the "State" category. ³Fiscal Year 2017 total includes 416 governmental entities and 2008 total includes 377 governmental entities.

Revenue Capacity Information

Revenue Capacity Information is intended to assist users in realizing and reviewing the factors that affect the Systems' ability to generate revenues. Employee and employer contribution rates for the most recent ten fiscal years are presented to aid in this category.

Prior to fiscal year 2012, the employee contribution rates for SCRS and PORS were fixed by statute and had historically been changed infrequently, and any contribution increases determined by the annual actuarial valuations of the systems were made in the employer contribution rate. Retirement reform legislation enacted in 2012 set an increased contribution schedule for SCRS and PORS employee and employer contribution rates. The Retirement Funding and Administration Act of 2017 again increases, but also established a ceiling for, employee contribution rates. Effective July 1, 2017, employee rates will increase to a capped rate of 9.00 percent for SCRS and 9.75 percent for PORS. The legislation also increases employer contribution rates effective July 1, 2017 for both SCRS and PORS by 2 percentage points to 13.56 percent and 16.24 percent, respectively. Employer contribution rates are scheduled to continue to increase by a minimum of 1 percentage point each year through July 1, 2022, and further, if the scheduled contributions are not sufficient to meet the funding periods set for the applicable year.

Pension reform legislation also authorized the employer contribution rates for SCRS and PORS to be increased after June 30, 2027, not to exceed one-half of one percent in any one year in order to improve the funding of the plans. Further, the legislation reduced the maximum amortization period for the retirement systems from 30 years to 20 years over a ten-year schedule for the unfunded liability of SCRS or PORS, as determined by the annual actuarial valuations of the plan. Finally, under the legislation, the contribution rates for SCRS and PORS may not be decreased until the plans are at least 85 percent funded.

Employee Contribution Rates

Most Recent 10 Fiscal Years

Fiscal Year Ended	SCRS	PORS			
June 30,	Class II & III	Class II & III	GARS ¹	JSRS	SCNG
2017	8.66%	9.24%	11.00%	10.00%	N/A
2016	8.16%	8.74%	11.00%	10.00%	N/A
2015	8.00%	8.41%	11.00%	10.00%	N/A
2014	7.50%	7.84%	11.00%	10.00%	N/A
2013	7.00%	7.00%	11.00%	10.00%	N/A
2012	6.50%	6.50%	10.00%	10.00%	N/A
2011	6.50%	6.50%	10.00%	10.00%	N/A
2010	6.50%	6.50%	10.00%	10.00%	N/A
2009	6.50%	6.50%	10.00%	10.00%	N/A
2008	6.50%	6.50%	10.00%	10.00%	N/A

¹The General Assembly Retirement System (GARS) employee contribution rate increased from 10 percent of earnable compensation to 11 percent of earnable compensation effective January 1, 2013.

Employer Contribution Rates¹

Most Recent 10 Fiscal Years

	SCRS	- Class II & III ²		PORS	S - Class II &	& III ²	JSRS	5
Fiscal Year	State Dept &	Local	Death	All	Death	Accidental	All	Death
Ended June 30,	Public Schools	Government	Benefit	Employers	Benefit	Death	Employers	Benefit
2017	11.410%	11.410%	0.15%	13.840%	0.20%	0.20%	47.52%	0.45%
2016	10.910%	10.910%	0.15%	13.340%	0.20%	0.20%	47.52%	0.45%
2015	10.750%	10.750%	0.15%	13.010%	0.20%	0.20%	47.52%	0.45%
2014	10.450%	10.450%	0.15%	12.440%	0.20%	0.20%	46.88%	0.45%
2013	10.450%	10.450%	0.15%	11.900%	0.20%	0.20%	44.64%	0.45%
2012	9.385%	9.385%	0.15%	11.363%	0.20%	0.20%	44.64%	0.45%
2011	9.240%	9.240%	0.15%	11.130%	0.20%	0.20%	44.64%	0.45%
2010	9.240%	9.240%	0.15%	10.650%	0.20%	0.20%	44.64%	0.45%
2009	9.240%	9.240%	0.15%	10.650%	0.20%	0.20%	44.64%	0.45%
2008	9.060%	9.060%	0.15%	10.300%	0.20%	0.20%	44.64%	0.45%

¹This schedule does not include employer contributions for the GARS because amounts are paid as an annual lump-sum appropriation, for which incidental death benefit contributions are included. The schedule also does not include employer contributions for the SCNG which are paid through an annual State appropriation.

²For employers with retiree insurance coverage, an additional retiree health insurance surcharge is collected by the Retirement Systems as a pass-through agency and amounts are remitted to the South Carolina Retiree Health Insurance Trust Fund; therefore, these insurance rates are not included in this schedule.

Demographic and Economic Information

Demographic and Economic Information is intended to assist users in evaluating the socioeconomic environment within which the Systems operate and to provide information that facilitates comparisons of financial statement information over time and among pension plans. Active and retired member data for the past ten fiscal years can be found in the Actuarial Section on pages 171-173 and 179-181.

A list of the number of employers currently participating in the SCRS and PORS systems is presented in this section. State agencies, institutions of higher education, and public school districts are covered by Statute. The list of participating employers includes a directory of employers covered by separate agreement. This list includes employers who submitted contributions during the fiscal year ending June 30, 2017, for active members or working retirees.

Participating Employers

As of June 30, 2017

Participating Employers Covered by Statute State Agencies & Institutions of Higher Education	<u>SCRS</u> 33	PORS 30
Public School Districts	118	53
Participating Employers Covered by Separate Agreement	578	333
Name ABBEVILLE COUNTY COUNCIL ABBEVILLE GREENWOOD REGIONAL LIBRARY BD AIKEN BAMBERG BRNWELL EDGEFLD REG LIB BD	SCRS Y Y Y	PORS Y
AIKEN COUNTY COMM ON ALCOHOL&DRUG ABUSE ALLENDALE COUNTY COUNCIL ALLENDALE COUNTY OFFICE ON AGING ALLENDALE HAMPTON JASPER REG LIBRARY ALLENDALE-BARNWELL DIS & SPEC NEEDS BD	Y Y Y Y	Y Y
ALLIGATOR RURAL WATER & SEWER CO ANDERSON CO COMM ON ALCOHOL & DRUG ABUSE ANDERSON CO COUNCIL-FINANCE OFFICE ANDERSON CO DISABILITIES & SPEC NEEDS BD	Y Y Y	Y
ANDERSON CO FIRE PROTECTION COMMISSION ANDERSON COUNTY LIBRARY BOARD ANDERSON REGIONAL JOINT WATER SYSTEM ASHLEY RIVER FIRE DISTRICT AXIS I CENTER OF BARNWELL	Y Y Y Y	Y
BAMBERG BOARD OF PUBLIC WORKS BAMBERG CO DISBILITIES & SPEC NEEDS BD BAMBERG COUNTY COUNCIL BAMBERG COUNTY OFFICE ON AGING	Y Y Y Y	Y Y
BARNWELL COUNTY COUNCIL BDST SERVICES, INC. BEAUFORT MEMORIAL HOSPITAL	Y Y Y	Ϋ́Υ
BEAUFORT SOIL & WATER CONSERVATION DIST BEAUFORT-JASPER CO WATER AUTHORITY BEECH ISLAND RURAL COMMUNITY WATER DIST	Y Y Y	·
BELMONT FIRE & SANITATION DIST COMM BELTON-HONEA PATH WATER AUTHORITY BEREA PUBLIC SERVICE DISTRICT COMMISSION BERKELEY CHARLESTON DORCHESTER COUNCIL	Y Y Y	Y
BERKELEY CHARLESTON DORCHESTER RTMA BERKELEY COUNTY GOVT-ATTN:FINANCE DEPT BETHUNE RURAL WATER COMPANY INC BIG CREEK WATER AND SEWERAGE DISTRICT BLUE RIDGE RURAL WATER COMPANY, INC.	Y Y Y Y	Y
BLUFFTON TOWNSHIP FIRE DISTRICT	Ϋ́	Υ

<u>Name</u>	<u>SCRS</u>	PORS
BOILING SPRINGS FIRE DEPARTMENT		Υ
BOILING SPRINGS FIRE DISTRICT	Υ	Υ
BROADWAY WATER AND SEWER DISTRICT	Υ	
BROWNS CREEK WATER COMPANY, INC.	Υ	Υ
BUCKSPORT WATER SYSTEM, INC.	Υ	
BURTON CNTER FOR DIS & SPC ND	Υ	Υ
BURTON FIRE DISTRICT	Υ	Υ
CALHOUN CO DISABILITIES & SPEC NEEDS BD	Υ	
CALHOUN COUNTY COUNCIL	Υ	Υ
CALHOUN COUNTY COUNCIL ON AGING	Υ	
CAROMI VILLAGE VOLUNTEER FIRE DEPARTMENT		Υ
CATAWBA AREA AGENCY ON AGING	Υ	
CATAWBA REGIONAL COUNCIL OF GOVERNMENTS	Υ	
CCHS DBA PALMETTO COMMUNITY ACTION PRS	Υ	
CENTRAL MIDLANDS COUNCIL OF GOVERNMENTS	Υ	
CENTRAL MIDLANDS REGIONAL TRANSIT AUTHOR	Υ	
CHARLESTON AREA TRANSPORTATION AUTHORITY	Υ	
CHARLESTON CO HOUSING & REDEV AUTHORITY	Υ	
CHARLESTON CO PARK AND RECREATION COMM	Υ	
CHARLESTON COMMISSIONERS OF PUBLIC WORKS	Υ	
CHARLESTON COUNTY AIRPORT DISTRICT	Υ	Υ
CHARLESTON COUNTY LIBRARY	Υ	
CHARLESTON NAVAL COMPLEX REDEVELOPMENT	Υ	
CHEROKEE CO COMM ON ALCOHOL & DRUG ABUSE	Υ	
CHEROKEE CO DISABILITIES & SPEC NEEDS BD	Υ	Υ
CHEROKEE COUNTY COUNCIL	Υ	Υ
CHEROKEE COUNTY DEVELOPMENT BOARD	Υ	
CHEROKEE COUNTY PUBLIC LIBRARY	Υ	
CHEROKEE COUNTY RECREATION DIST	Υ	
CHEROKEE SPRINGS FIRE DISTRICT		Υ
CHESCO SERVICES	Υ	Υ
CHESTER CO BD OF DIRECTORS	Υ	Υ
CHESTER CO HOSPITAL & NURSING CTR., INC.	Υ	
CHESTER COUNTY LIBRARY	Υ	
CHESTER METRO DISTRICT	Υ	
CHESTER SEWER DISTRICT	Υ	
CHESTER/LANCASTER CO DSN BOARD, INC.	Υ	
CHESTERFIELD CO RURAL WATER CO INC	Υ	Υ
CHESTERFIELD COUNTY COUNCIL	Υ	Υ
CHESTERFIELD SOIL & WATER CONS DISTRICT	Υ	
CITY OF ABBEVILLE	Υ	Υ
CITY OF AIKEN		Υ
CITY OF ANDERSON		Υ
CITY OF BAMBERG	Υ	Y
CITY OF BARNWELL	Y	Y
CITY OF BEAUFORT	Y	Y
CITY OF BELTON	Y	Y
CITY OF BENNETTSVILLE	Ϋ́	Y
CIT OF DETAILED VILLE	1	ı

<u>Name</u>	<u>SCRS</u>	<u>PORS</u>
CITY OF CAMDEN & MUNICIPAL UTILITIES	Υ	Υ
CITY OF CAYCE	Υ	Υ
CITY OF CHARLESTON	Υ	Υ
CITY OF CHESTER	Υ	Υ
CITY OF CLEMSON	Υ	Υ
CITY OF CLINTON	Υ	Υ
CITY OF COLUMBIA	Υ	Υ
CITY OF CONWAY	Υ	Υ
CITY OF DARLINGTON	Υ	Υ
CITY OF DENMARK	Υ	Υ
CITY OF DILLON	Υ	Υ
CITY OF EASLEY	Υ	Υ
CITY OF FLORENCE	Υ	Υ
CITY OF FOLLY BEACH	Υ	Υ
CITY OF FOREST ACRES	Υ	Υ
CITY OF FOUNTAIN INN	Υ	Υ
CITY OF GAFFNEY	Υ	Υ
CITY OF GEORGETOWN	Υ	Υ
CITY OF GOOSE CREEK	Υ	Υ
CITY OF GREENVILLE	Υ	Υ
CITY OF GREENWOOD	Y	Y
CITY OF GREER	Y	Ϋ́
CITY OF HANAHAN	Y	Y
CITY OF HARDEEVILLE	Y	Ϋ́
CITY OF HARTSVILLE	Y	Y
CITY OF INMAN	Ϋ́	Y
CITY OF INMAN	Ϋ́	Ϋ́
CITY OF JOHNSONVILLE	Ϋ́	Ϋ́
CITY OF LAKE CITY	Ϋ́	Ϋ́
CITY OF LANCASTER	Ϋ́	Ϋ́
CITY OF LANCASTER CITY OF LAURENS		Ϋ́
	Y	-
CITY OF LODIS	Y	Y
CITY OF MANNING	Y	Y
CITY OF MANNING	Y	Y
CITY OF MARION	Y	Y
CITY OF MAULDIN	Y	Y
CITY OF MULLINS	Y	Y
CITY OF MYRTLE BEACH	Y	Υ
CITY OF NEW ELLENTON	Υ	Υ
CITY OF NEWBERRY	Υ	Υ
CITY OF NORTH AUGUSTA	Υ	Υ
CITY OF NORTH CHARLESTON	Υ	Υ
CITY OF NORTH MYRTLE BEACH		Υ
CITY OF ORANGEBURG	Υ	Υ
CITY OF PICKENS	Υ	Υ
CITY OF ROCK HILL	Υ	Υ
CITY OF SENECA	Υ	Υ
CITY OF SIMPSONVILLE	Υ	Υ

<u>Name</u>	<u>SCRS</u>	<u>PORS</u>
CITY OF SPARTANBURG	Υ	Υ
CITY OF SUMTER	Υ	Υ
CITY OF TEGA CAY	Υ	Υ
CITY OF TRAVELERS REST	Υ	Υ
CITY OF UNION	Υ	Υ
CITY OF WALHALLA	Υ	Υ
CITY OF WALTERBORO	Υ	Υ
CITY OF WEST COLUMBIA	Υ	Υ
CITY OF WOODRUFF	Υ	Υ
CITY OF YORK	Υ	Υ
CLARENDON CO COMM ON ALCOHOL & DRUG ABUS	Υ	
CLARENDON CO DISB & SPECIAL NEEDS BOARD	Υ	Υ
CLARENDON COUNTY	Υ	Υ
CLEAR SPRING FIRE-RESCUE	Υ	Υ
CLINTON NEWBERRY NATURAL GAS AUTHORITY	Υ	Υ
COLLETON CO DISABILITIES & SPEC NEED BD	Υ	
COLUMBIA HOUSING AUTHORITY	Υ	
COLUMBIA MUSEUM OF ART	Υ	
COMBINED UTILITY SYSTEM	Υ	
COMM OF PUBLIC WORKS MUNICIPAL UTILITIES	Υ	
COMMISSION ON PUBLIC WORKS	Υ	
CONVERSE FIRE DISTRICT		Υ
COUNTY COUNCIL FOR DORCHESTER COUNTY	Υ	Υ
COUNTY COUNCIL OF BEAUFORT COUNTY	Υ	Υ
COUNTY COUNCIL OF NEWBERRY COUNTY	Υ	Υ
COUNTY COUNCIL OF PICKENS COUNTY	Υ	Υ
COUNTY COUNCIL OF RICHLAND COUNTY	Υ	Υ
COUNTY OF AIKEN	Υ	Υ
COUNTY OF CHARLESTON	Υ	Υ
COUNTY OF COLLETON	Υ	Υ
COUNTY OF HAMPTON	Υ	Υ
COUNTY OF LAURENS	Υ	Υ
COUNTY OF LEXINGTON	Υ	Υ
COUNTY OF MARLBORO	Υ	Υ
COUNTY OF MCCORMICK	Υ	Υ
CROFT FIRE DISTRICT		Υ
CULTURAL & HERITAGE COMM OF YORK COUNTY	Υ	Υ
DARLINGTON CO COMMUNITY ACTION AGENCY	Υ	
DARLINGTON CO DISAB & SPECIAL NEEDS BD	Υ	Υ
DARLINGTON CO SOIL & WATER CONS DISTRICT	Y	-
DARLINGTON CO WATER & SEWER COMMISSION	Y	
DARLINGTON COUNTY COUNCIL	Y	Υ
DARLINGTON COUNTY COUNCIL ON AGING	Y Y	•
DARLINGTON COURT LIBRARY COMM	Y	
DAUFUSKIE ISLAND FIRE DISTRICT	•	Υ
DILLON COUNTY COUNCIL	Υ	Y
DILLON SOIL & WATER CONSERVATION DIST	Y	ı
DONALDS-DUE WEST WATER & SEWER AUTHORITY	Y	
DOINTED DOE WEST WITHER & SEVER ACTIONITY		

<u>Name</u>	<u>SCRS</u>	PORS
DONALDSON FIRE SERVICE AREA	Y	
DORCHESTER CO BD OF DIS & SPECIAL NEEDS	Y	Y
DORCHESTER CO COMM ON ALCOHOL&DRUG ABUSE	Υ	
DORCHESTER COUNTY LIBRARY	Υ	
DORCHESTER COUNTY WATER AUTHORITY	Υ	
DORCHESTER SENIORS, INC	Υ	
DUNCAN CHAPEL FIRE DISTRICT	Υ	
EASLEY CENTRAL WATER DISTRICT	Υ	
EAST RICHLAND CO PUBLIC SERVICE DIST	Υ	
EDGEFIELD COUNTY COUNCIL	Υ	Υ
EDGEFIELD COUNTY WATER & SEWER AUTHORITY	Υ	
ELLOREE COMMISSION OF PUBLIC WORKS	Υ	
FAIRFIELD CO DISAB & SPECIAL NEEDS BD	Υ	Υ
FAIRFIELD CO SUBSTANCE ABUSE COMMISSION	Υ	
FAIRFIELD COUNTY COUNCIL	Υ	Υ
FAIRFIELD COUNTY COUNCIL ON AGING	Υ	
FAIRFIELD COUNTY LIBRARY	Υ	
FAIRFIELD MEMORIAL HOSPITAL	Υ	
FLINT HILL FIRE DISTRICT		Υ
FLORENCE CO COMM ON ALCOHOL & DRUG ABUSE	Υ	
FLORENCE CO DISABILITIES & SPEC NEEDS BD	Υ	Υ
FLORENCE COUNTY COUNCIL	Υ	Υ
FLORENCE REGIONAL AIRPORT	Υ	Υ
FRIPP ISLAND PUBLIC SERVICE DISTRICT	Υ	Υ
GAFFNEY BOARD OF PUBLIC WORKS	Υ	
GANTT FIRE SEWER AND POLICE DISTRICT	Υ	Υ
GASTON RURAL COMMUNITY WATER DISTRICT	Υ	
GATEWAY COUNSELING CENTER	Υ	
GENERATIONS UNLIMITED	Υ	
GEORGETOWN CO ALCOHOL & DRUG ABUSE COMM	Υ	
GEORGETOWN CO DISAB & SPECIAL NEED BD	Υ	
GEORGETOWN COUNTY COUNCIL	Υ	Υ
GEORGETOWN COUNTY WATER AND SEWER DIST	Υ	
GEORGETOWN SOIL & WATER CONSERVATION DIS	Υ	
GILBERT-SUMMIT RURAL WATER DISTRICT	Υ	
GLASSY MOUNTAIN FIRE SERVICE AREA	Υ	Υ
GLEAMNS HUMAN RESOURCES COMMISSION	Υ	
GLENDALE FIRE DISTRICT	Υ	
GLENN SPRINGS-PAULINE FIRE DEPT		Υ
GRAND STRAND WATER & SEWER AUTHORITY	Υ	
GRASSY POND WATER CO.INC.	Υ	
GREATER GREENVILLE SANITATION COMM	Υ	
GREENVILLE AIRPORT COMMISSION	Ϋ́	
GREENVILLE AREA DEVELOPMENT CORPORATION	Ϋ́	
GREENVILLE CO COM ON ALCOHOL-DRUG ABUSE	Ϋ́	
GREENVILLE CO DISAB & SPECIAL NEEDS BD	Y	Υ
GREENVILLE CO MUSEUM COMMISSION	Ϋ́	•
GREENVILLE COMM OF PUBLIC WORKS	Ϋ́	
	•	

<u>Name</u>	<u>SCRS</u>	<u>PORS</u>
GREENVILLE COUNTY COUNCIL	Y	Y
GREENVILLE COUNTY LIBRARY	Y	Υ
GREENVILLE REDEVELOPMENT AUTHORITY	Y	v
GREENVILLE-SPARTANBURG AIRPORT DISTRICT	Y	Y
GREENWOOD CO COUNCIL-ADM & FIN OFFICE	Y	Υ
GREENWOOD COMM OF PUBLIC WORKS	Y	
GREENWOOD METROPOLITAN DISTRICT COMM	Y	
GREENWOOD SOIL & WATER CONSERVATON DIST	Y	.,
GREER COMMISSION OF PUBLIC WORKS	Υ	Υ
GREER DEVELOPMENT CORP	Υ	
HAMPTON CO DISABILITIES & SPEC NEEDS BD	Υ	
HARTSVILLE COMMUNITY CENTER BLDG COMM	Υ	
HARVIN CLARENDON COUNTY LIBRARY	Υ	
HAZEL PITTMAN CENTER	Υ	
HIGH HILLS RURAL WATER CO., INC.	Υ	
HILLTOP FIRE DISTRICT		Υ
HILTON HEAD NO 1 PUBLIC SERVICE DISTRICT	Υ	
HOLLY SPRINGS FIRE-RESCUE DISTRICT		Υ
HOMELAND PARK WATER DISTRICT	Υ	
HORRY CO COUNCIL	Υ	Υ
HORRY CO DISABILITIES & SPECIAL NEEDS BD	Υ	
HORRY COUNTY SOLID WASTE AUTHORITY, INC	Υ	Υ
HORRY SOIL CONSERVATION DISTRICT	Υ	
HOUSING AUTH OF THE CITY OF CHARLESTON	Υ	Υ
HOUSING AUTH OF THE CITY OF EASLEY	Υ	
HOUSING AUTH OF THE CITY OF GREENWOOD	Υ	
HOUSING AUTH OF THE CITY OF MYRTLE BEACH	Υ	Υ
HOUSING AUTH OF THE CITY OF NO CHAS	Υ	
HOUSING AUTHORITY OF THE CITY OF SPARTANBURG	Υ	У
HOUSING AUTHORITY OF CITY OF NEWBERRY	Υ	
HOUSING AUTHORITY OF CITY OF UNION	Υ	Υ
HOUSING AUTHORITY OF DARLINGTON	Υ	
HOUSING AUTHORITY OF FLORENCE	Υ	
HOUSING AUTHORITY OF FORT MILL	Υ	
HOUSING AUTHORITY OF LANCASTER	Υ	
HOUSING AUTHORITY OF THE CITY OF AIKEN	Υ	
HOUSING AUTHORITY OF THE CITY OF CHESTER	Υ	
HOUSING AUTHORITY OF THE CITY OF CONWAY	Υ	
HOUSING AUTHORITY OF THE CITY OF GAFFNEY	Υ	
HOUSING AUTHORITY OF TOWN OF WOODRUFF	Υ	
HOUSING AUTY OF CITY OF SUMTER	Υ	
HOWE SPRINGS FIRE DISTRICT		Υ
INMAN COMMUNITY FIRE DEPARTMENT		Υ
INMAN-CAMPOBELLO WATER DISTRICT	Υ	Υ
IRMO CHAPIN RECREATION DISTRICT	Υ	Υ
IRMO FIRE DISTRICT	Υ	Υ
ISLE OF PALMS WATER & SEWER COMMISSION	Υ	
JAMES ISLAND PUBLIC SERVICE DIST COMM	Υ	Υ

Name	<u>SCRS</u>	<u>PORS</u>
JASPER CO BD OF DIS & SPECIAL NEEDS JASPER COUNTY COUNCIL	Y	V
JOHNSONVILLE FIRE DEPARTMENT	Y Y	Y Y
JOINT MUNICIPAL WATER & SEWER COMMISSION	Y	'
KEOWEE FIRE TAX DISTRICT	'	Υ
KERSHAW CO BD DOF DIS & SPECIAL NEEDS	Υ	•
KERSHAW CO COMM ON ALCOHOL & DRUG ABUSE	Ϋ́	
KERSHAW COUNTY COUNCIL	Ϋ́	Υ
KINGSTREE HOUSING AUTHORITY	Y	•
LADYS ISLAND - ST HELENA FIRE DISTRICT	Y	Υ
LAKE CITY HOUSING AUTHORITY	Y	·
LAKE CUNNINGHAM FIRE DISTRICT	Y	Υ
LANCASTER CO COMM ON ALCOHOL&DRUG ABUSE	Ϋ́	•
LANCASTER CO WATER & SEWER DISTRICT	Ϋ́	
LANCASTER COUNTY COUNCIL	Y	Υ
LANCASTER COUNTY COUNCIL ON AGING	Ϋ́	Y
LANCASTER COUNTY NATURAL GAS AUTHORITY	Ϋ́	•
LANCASTER SOIL & WATER CONSERVATION DIST	Ϋ́	
LAURENS CO DISABILITIES & SPEC NEEDS BD	Ϋ́	
LAURENS COMMISSIONERS OF PUBLIC WORKS	Y	
LAURENS COUNTY WATER & SEWER COMMISSION	Υ	
LEE CO DISABILITIES & SPECIAL NEEDS BD	Υ	
LEE COUNTY COUNCIL	Υ	Υ
LEXINGTON MEDICAL CENTER	Υ	Υ
LEX-RICH ALCOHOL & DRUG ABUSE COUNCIL	Υ	Υ
LIBERTY-CHESNEE-FINGERVILLE WATER DIST	Υ	
LITTLE RIVER WATER & SEWER CO., INC	Υ	
LOWCOUNTRY COUNCIL OF GOVERNMENTS	Υ	
LOWCOUNTRY REGIONAL EMS COUNCIL	Υ	
LOWCOUNTRY REGIONAL TRANSPORTATION AUTH	Υ	
LOWCOUNTRY REGIONAL WATER SYSTEM	Υ	
LOWER SAVANNAH COUNCIL OF GOVERNMENTS	Υ	
LUGOFF FIRE DISTRICT		Υ
LUGOFF WATER DISTRICT OF KERSHAW COUNTY	Υ	
MARCO RURAL WATER CO., INC.	Υ	
MARION CO COM ON ALCOHOL & DRUG ABUSE	Υ	
MARION COUNTY COUNCIL	Υ	Υ
MARION COUNTY LIBRARY	Υ	
MARION-DILLON CO DISAB & SPEC NEEDS BD	Υ	
MARLBORO CO DISABILITIES & SPEC NEEDS BD	Υ	
MARLBORO WATER COMPANY	Υ	
MCCORMICK COMM OF PUBLIC WORKS	Υ	
MCCORMICK COUNTY COUNCIL ON AGING	Υ	
MCCORMICK COUNTY WATER & SEWER AUTHORITY	Υ	
METROPOLITAN SEWER SUB-DISTRICT	Y	
METROPOLITAN SUBDISTRICT B WATER & SEWER	Y	
MID COUNTY WATER COMPANY, INC	Y	
MONCKS CORNER WATER WORKS COMMISSION	Υ	

Name	<u>SCRS</u>	<u>PORS</u>
MT PLEASANT WATER & SEWER COMM	Y	
MUNICIPAL ASSOCIATION OF SOUTH CAROLINA	Y	
MURRELLS INLET-GARDEN CITY FIRE DIST	Y	Υ
N SPARTANBURG AREA FIRE & RESCUE DIST	Y	
NEW ELLENTON COMM OF PUBLIC WORKS	Y	
NEW LIFE CENTER	Υ	
NEWBERRY CO DISABILITIES & SP ND BD	Υ	Υ
NEWBERRY CO WATER AND SEWER AUTHORITY	Υ	
NEWBERRY COUNTY LIBRARY	Υ	
NORTH CHARLESTON SEWER DISTRICT	Υ	
NORTH GREENVILLE FIRE DISTRICT		Υ
OCONEE COUNTY	Υ	Υ
OCONEE DISABILITIES & SPEC NEEDS BD	Υ	
OCONEE JOINT REGIONAL SEWER AUTHORITY	Υ	
OLANTA RURAL FIRE DEPARTMENT		Υ
OLD FORT FIRE DISTRICT	Υ	Υ
OLD NINETY SIX TOURISM COMMISSION	Υ	
OLD TOWN FIRE AND RESCUE DEPARTMENT	Υ	
OLDE ENGLISH DISTRICT TOURISM COMMISSION	Υ	
ORANGEBURG CO DISAB & SPECIAL NEEDS BD	Υ	Υ
ORANGEBURG COUNTY COUNCIL	Υ	Υ
ORANGEBURG DEPT OF PUBLIC UTILITIES	Υ	
PALMETTO STATE TEACHERS ASSOCIATION	Υ	
PARKER SEWER & FIRE SUBDISTRICT	Υ	Υ
PEE DEE REGIONAL COUNCIL OF GOVERNMENTS	Υ	
PEE DEE REGIONAL EMS, INC	Υ	
PEE DEE REGIONAL TRANSPORTATION AUTH	Y	Υ
PELHAM BATESVILLE FIRE DEPARTMENT	Y	Y
PENDLETON DIS HISTORICAL & REC COMM	Ϋ́	•
PICKENS CO COMM ON ALCOHOL & DRUG ABUSE	Y	
PICKENS CO DISABILITIES & SPEC NEEDS BD	Ϋ́	
PIEDMONT PARK FIRE DISTRICT	Ϋ́	Υ
PIEDMONT PUBLIC SERVICE DISTRICT	•	Ϋ́
PINE RIDGE FIRE DEPARTMENT		Ϋ́
PIONEER RURAL WATER DISTRICT	Υ	•
POPLAR SPRINGS FIRE DEPARTMENT	•	Υ
POWDERSVILLE WATER DISTRICT	Υ	'
REC DIST & REC COMM OF RICHLAND COUNTY	Y	Υ
RECREATION DIST LEXINGTON CO	Υ	Ϋ́
	Y	Υ Υ
REIDVILLE FIRE DISTRICT	V	Y
RENEWABLE WATER RESOURCES(RE-WA)	Y	
RICH/LEX CO DISAB & SPECIAL NEEDS BD	Y	.,
RICHLAND COUNTY PUBLIC LIBRARY	Y	Y
RICHLAND LEXINGTON AIRPORT DISTRICT	Y	Υ
RICHLAND MEMORIAL/PALMETTO HEALTH	Y	
RIVERBANKS PARK COMMISSION	Υ	Υ
ROCKY CREEK WATER COMPANY, INC	Υ	
ROEBUCK FIRE DEPARTMENT		Υ

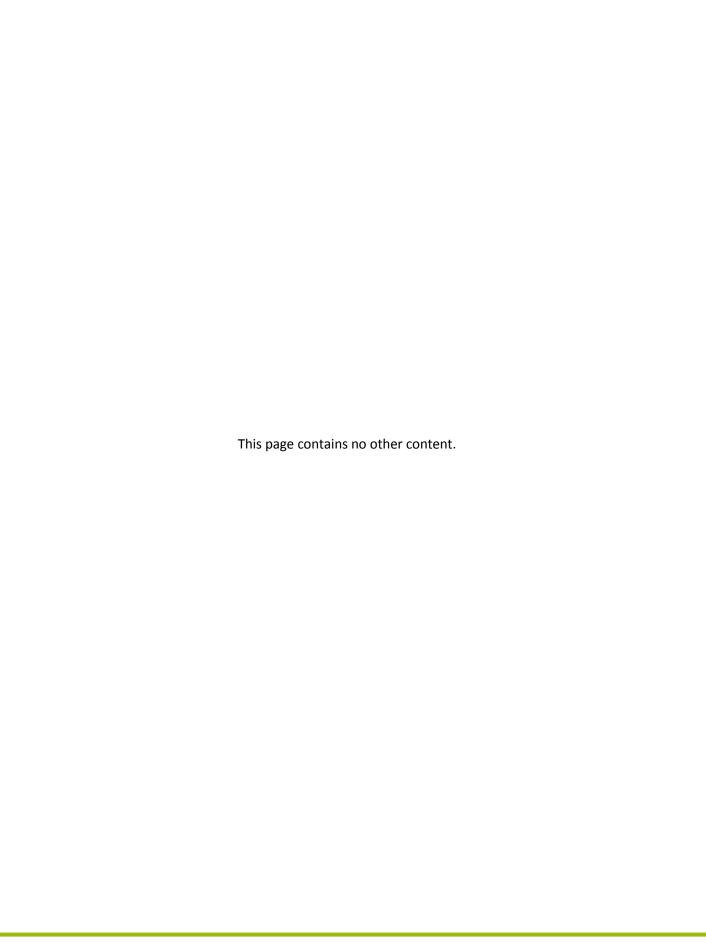
Name	<u>SCRS</u>	PORS
RUBICON	Y	
RURAL COMM WATER DIST OF GEORGETOWN CO	Y	
S C EDUCATION ASSN	Y	
S C HIGH SCHOOL LEAGUE	Y	
S C STATE EMPLOYEES' ASSOCIATION	Y	
SALUDA COMMISSION OF PUBLIC WORKS	Y	.,
SALUDA COUNTY COUNCIL	Y	Υ
SALUDA COUNTY WATER & SEWER AUTHORITY	Y	
SANDY SPRINGS WATER COMPANY	Y	
SANTEE COOPER COUNTIES PROMOTION COMM	Y	.,
SANTEE FIRE SERVICE DISTRICT	Y	Υ
SANTEE-LYNCHES COUNCIL FOR GOVERNMENTS	Y	
SANTEE-WATEREE REG TRANSPORTATION AUTH	Y	
SC APPALACHIAN COUNCIL OF GOVERNMENTS	Y	
SC ASSOCIATION OF COUNTIES	Υ	
SC ASSOCIATION OF SCHOOL ADMINISTRATORS	Υ	
SC ASSOCIATION OF SCHOOL BOARDS	Υ	
SC ATHLETIC COACHES ASSOCIATION	Υ	
SC LAW ENFORCEMENT OFFICERS ASSOCIATION	Υ	
SC MIDLANDS EMER MED SER MGM ASSOC	Υ	
SC STATE CREDIT UNION	Υ	
SC STATE FIREMENS ASSOCIATION	Υ	
SHELDON FIRE DISTRICT	Υ	Υ
SHORELINE BEHAVIORAL HEALTH SERVICES	Υ	
SIX MILE RURAL WATER DISTRICT	Υ	
SLATER-MARIETTA FIRE DEPT		Υ
SOUTH CAROLINA SHERIFFS' ASSOCIATION	Υ	
SOUTH CAROLINA TECHNOLOGY & AVIATION CTR	Υ	
SOUTH GREENVILLE AREA FIRE DISTRICT	Υ	Υ
SOUTH ISLAND PUBLIC SERVICE DISTRICT	Υ	
SOUTH LYNCHES FIRE DEPARTMENT		Υ
SOUTHSIDE RURAL COMMUNITY WATER DIST	Υ	
SPARTANBURG COMRS OF PUBLIC WORK	Υ	
SPARTANBURG COUNTY COUNCIL	Υ	Υ
SPARTANBURG PUBLIC LIBRARY	Υ	Υ
SPARTANBURG REGIONAL MEDICAL CENTER	Υ	Υ
SPARTANBURG SANITARY SEWER DIST	Υ	
ST ANDREWS PARISH PARKS & PLAYGROUNDS	Υ	
ST ANDREWS PUBLIC SERVICE DIST COMM	Υ	
ST GEORGE WATER AND SEWER DEPARTMENT	Υ	
ST JOHNS FIRE DISTRICT	Υ	Υ
ST PAULS FIRE DISTRICT	Υ	Υ
STARR-IVA WATER COMPANY	Υ	
STARTEX JACKSON WELLFD DUNCAN WATER DIST	Υ	
SUMTER CO COM ON ALCOHOL & DRUG ABUSE	Y	
SUMTER CO DISABILITIES & SPEC NEEDS BD	Ϋ́	Υ
SUMTER CONSERVATION DISTRICT	Ϋ́	-
SUMTER COUNTY COUNCIL	Y	Υ

Name SUBSTER COUNTY UPDARY	<u>SCRS</u>	PORS
SUMTER COUNTY LIBRARY	Y	
TAYLORS FIRE AND SEWER DISTRICT	Y	Υ
THE ERNEST E KENNEDY CENTER	Y	
THE PEE DEE TOURISM COMMISSION	Y	
THE RIVER ALLIANCE	Y	
THREE RIVERS SOLID WASTE AUTHORITY	Υ	.,
TIGERVILLE FIRE DEPARTMENT	.,	Y
TOWN OF ALLENDALE	Y	Y
TOWN OF ANDREWS	Y	Y
TOWN OF ATLANTIC BEACH	Y	Y
TOWN OF AYNOR	Υ	Υ
TOWN OF BATESBURG-LEESVILLE	Υ	Υ
TOWN OF BETHUNE	Υ	Υ
TOWN OF BISHOPVILLE	Υ	Υ
TOWN OF BLACKSBURG	Υ	Υ
TOWN OF BLACKVILLE	Υ	
TOWN OF BLUFFTON	Υ	Υ
TOWN OF BLYTHEWOOD	Υ	
TOWN OF BONNEAU		Υ
TOWN OF BOWMAN	Υ	Υ
TOWN OF BRANCHVILLE	Υ	Υ
TOWN OF BRIARCLIFFE ACRES	Υ	Υ
TOWN OF BRUNSON	Υ	
TOWN OF BURNETTOWN	Υ	Υ
TOWN OF CALHOUN FALLS	Υ	Υ
TOWN OF CAMERON	Υ	Υ
TOWN OF CAMPOBELLO	Υ	Υ
TOWN OF CARLISLE	Υ	
TOWN OF CENTRAL	Υ	Υ
TOWN OF CHAPIN	Υ	Υ
TOWN OF CHERAW	Y	Y
TOWN OF CHESNEE	Y	Y
TOWN OF CHESTERFIELD	Ϋ́	Ϋ́
TOWN OF CLIO	Ϋ́	Y
TOWN OF CLOVER	Ϋ́	Ϋ́
TOWN OF CORDOVA	Y	•
TOWN OF COTTAGEVILLE	Ϋ́	Υ
TOWN OF COWARD	Ϋ́	Ϋ́
TOWN OF COWPENS	Ϋ́	Ϋ́
TOWN OF COWPENS TOWN OF DUE WEST	Y	Ϋ́
TOWN OF DUCAN	Y	Y
TOWN OF BONCAN TOWN OF EASTOVER	Y	ī
TOWN OF EASTOVER TOWN OF EDGEFIELD	Ϋ́	Υ
TOWN OF EURIAPPET	Y	Y
TOWN OF EHRHARDT	Y	Y
TOWN OF ELGIN	Y	Υ
TOWN OF ELKO	Y	
TOWN OF ELLOREE	Υ	Υ

<u>Name</u>	<u>SCRS</u>	<u>PORS</u>
TOWN OF ESTILL	Υ	Υ
TOWN OF EUTAWVILLE	Υ	Υ
TOWN OF FAIRFAX	Υ	Υ
TOWN OF FORT LAWN	Υ	Υ
TOWN OF FORT MILL	Υ	Υ
TOWN OF GASTON	Υ	Υ
TOWN OF GILBERT	Υ	
TOWN OF GRAY COURT	Υ	
TOWN OF GREAT FALLS	Υ	Υ
TOWN OF GREELEYVILLE	Υ	Υ
TOWN OF HAMPTON	Υ	Υ
TOWN OF HARLEYVILLE	Υ	Υ
TOWN OF HEATH SPRINGS	Υ	
TOWN OF HEMINGWAY	Υ	Υ
TOWN OF HILTON HEAD ISLAND		Υ
TOWN OF HOLLY HILL	Υ	Υ
TOWN OF HOLLYWOOD	Y	-
TOWN OF HONEA PATH	Y	Υ
TOWN OF IRMO	Ϋ́	Ϋ́
TOWN OF IVA	Ϋ́	Ϋ́
TOWN OF JACKSON	Ϋ́	Y
TOWN OF JACKSON TOWN OF JAMES ISLAND	Ϋ́	Y
TOWN OF JAMESTOWN	Ϋ́	Y
TOWN OF JEFFERSON	Ϋ́	'
TOWN OF JEFFERSON TOWN OF JOHNSTON	Y	Υ
TOWN OF JOHNSTON TOWN OF JOHNSTON	Ϋ́	Ϋ́
		Ţ
TOWN OF KERSHAW	Y	V
TOWN OF KIAWAH ISLAND TOWN OF KINGSTREE	Y	Y
	Y	Y
TOWN OF LAKE VIEW	Υ	Y
TOWN OF LAMAR	.,	Y
TOWN OF LANDRUM	Y	Y
TOWN OF LANE	Y	Υ
TOWN OF LATTA	Y	Υ
TOWN OF LEXINGTON	Υ	Υ
TOWN OF LINCOLNVILLE	Υ	
TOWN OF LITTLE MOUNTAIN	Υ	
TOWN OF LIVINGSTON	Υ	
TOWN OF LYMAN	Υ	Υ
TOWN OF MAYESVILLE	Υ	
TOWN OF MCBEE	Υ	Υ
TOWN OF MCCLELLANVILLE	Υ	
TOWN OF MCCOLL	Υ	Υ
TOWN OF MCCORMICK	Υ	Υ
TOWN OF MEGGETT	Υ	
TOWN OF MONCKS CORNER	Υ	Υ
TOWN OF MONETTA	Υ	
TOWN OF MT PLEASANT	Υ	Υ

TOWN OF MT. CROGHAN TOWN OF NICHOLS TOWN OF NICHOLS TOWN OF NINETY-SIX TOWN OF NINETY-SIX TOWN OF NORRIS TOWN OF NORRH TOWN OF NORWAY TOWN OF NORWAY TOWN OF OLANTA TOWN OF OLANTA TOWN OF OLAR TOWN OF PACOLET TOWN OF PACELAND TOWN OF PAGELAND TOWN OF PAGELAND TOWN OF PARKSVILLE TOWN OF PARKSVILLE TOWN OF PARKSVILLE TOWN OF PELION TOWN OF PELION TOWN OF PELION TOWN OF PELION TOWN OF PERDLETON TOWN OF PERDLETON TOWN OF PINERIDGE TOWN OF PINERIDGE TOWN OF PINERIDGE TOWN OF PINERIDGE TOWN OF POMARIA TOWN OF POMARIA TOWN OF POMBRIA TOWN OF PORT ROYAL TOWN OF PROSPERITY TOWN OF RAVENEL TOWN OF REVESVILLE TOWN OF REVESVILLE TOWN OF RIDGE SPRING TOWN OF RIDGE SPRING TOWN OF RIDGE SPRING TOWN OF RIDGE WAY TOWN OF RIDGE SPRING TOWN OF RIDGE WAY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SANTEE TOWN OF SCRANTON
TOWN OF NINETY-SIX Y Y TOWN OF NORRIS Y Y TOWN OF NORTH Y Y TOWN OF NORWAY Y Y TOWN OF OLART Y Y TOWN OF OLAR Y Y TOWN OF PAGELAND Y Y TOWN OF PAGELAND Y Y TOWN OF PARRICK Y Y TOWN OF PARRICK Y Y TOWN OF PELION Y Y TOWN OF PELION Y Y TOWN OF PENDLETON Y Y TOWN OF PENDLETON Y Y TOWN OF PINE RIDGE Y Y TOWN OF PINE RIDGE Y Y TOWN OF PORT ROYAL Y Y TOWN OF PROSPERITY Y Y TOWN OF ROYENEL Y Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGEWAY </td
TOWN OF NORRIS Y TOWN OF NORTH Y Y TOWN OF NORWAY Y Y TOWN OF OLANTA Y Y TOWN OF OLAR Y Y TOWN OF PACOLET Y Y TOWN OF PACOLET Y Y TOWN OF PACOLET Y Y TOWN OF PAGELAND Y Y TOWN OF PARKSYILLE Y Y TOWN OF PARKSYILLE Y Y TOWN OF PELION Y Y TOWN OF PELION Y Y TOWN OF PERRY Y Y TOWN OF PERRY Y Y TOWN OF PINE RIDGE Y Y TOWN OF PINE ROGE Y Y TOWN OF PORT ROYAL Y Y TOWN OF ROSPERITY Y Y TOWN OF ROSPERITY Y Y TOWN OF ROBE SPRING Y Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGE WAY Y
TOWN OF NORTH Y Y TOWN OF NORWAY Y Y TOWN OF OLANTA Y Y TOWN OF OLAR Y Y TOWN OF PACOLET Y Y TOWN OF PAGELAND Y Y TOWN OF PAMPLICO Y Y TOWN OF PARRSVILLE Y Y TOWN OF PATRICK Y Y TOWN OF PELION Y Y TOWN OF PERCY Y Y TOWN OF POMARIA Y Y TOWN OF ROYAL Y Y
TOWN OF NORWAY Y Y TOWN OF OLANTA Y Y TOWN OF OLAR Y Y TOWN OF PACCUET Y Y TOWN OF PAGELAND Y Y TOWN OF PAMPLICO Y Y TOWN OF PARKSVILLE Y Y TOWN OF PATRICK Y Y TOWN OF PELION Y Y TOWN OF POMARIA Y Y TOWN OF PROYAL Y Y
TOWN OF OLANTA Y Y TOWN OF DLAR Y Y TOWN OF PACOLET Y Y TOWN OF PACOLET Y Y TOWN OF PACOLET Y Y TOWN OF PARKSVILLE Y Y TOWN OF PARKSVILLE Y Y TOWN OF PELION Y Y TOWN OF PELZER Y Y TOWN OF PERDLETON Y Y TOWN OF PERRY Y Y TOWN OF PINE RIDGE Y Y TOWN OF PINE WOOD Y Y TOWN OF POMARIA Y Y TOWN OF PORT ROYAL Y Y TOWN OF PROSPERITY Y Y TOWN OF RAVENEL Y Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGEVILLE Y Y TOWN OF RIDGEWAY Y Y TOWN OF SALLEY Y Y TOWN OF SALUDA Y Y TOWN OF SALUDA
TOWN OF OLAR Y Y TOWN OF PACOLET Y Y TOWN OF PAGELAND Y Y TOWN OF PAGELAND Y Y TOWN OF PAMPLICO Y Y TOWN OF PARRICK Y Y TOWN OF PATRICK Y Y TOWN OF PELION Y Y TOWN OF PELIZER Y Y TOWN OF PENDLETON Y Y TOWN OF PERRY Y Y TOWN OF PINE RIDGE Y Y TOWN OF PINE WOODD Y Y TOWN OF POMARIA Y Y TOWN OF PROSPERITY Y Y TOWN OF ROSPERITY Y Y TOWN OF RAVENEL Y Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGEVILLE Y Y TOWN OF RIDGEWAY Y Y TOWN OF SALLEY Y Y TOWN OF SALUDA
TOWN OF PACOLET Y Y TOWN OF PAGELAND Y Y TOWN OF PAGELAND Y Y TOWN OF PARKSVILLE Y Y TOWN OF PARRICK Y Y TOWN OF PELION Y Y TOWN OF PELOETON Y Y TOWN OF PERRY Y Y TOWN OF PINE RIDGE Y Y TOWN OF PINEWOOD Y Y TOWN OF PORT ROYAL Y Y TOWN OF PROSPERITY Y Y TOWN OF ROUINBY Y Y TOWN OF RAVENEL Y Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGELAND Y Y TOWN OF RIDGEWAY Y Y TOWN OF RIDGEWAY Y Y TOWN OF SALLEY Y Y TOWN OF SALUDA Y Y TOWN OF SANTEE Y Y
TOWN OF PAGELAND TOWN OF PAGELAND TOWN OF PAMPLICO TOWN OF PARKSVILLE TOWN OF PARKSVILLE TOWN OF PATRICK TOWN OF PELION TOWN OF PELION TOWN OF PELION TOWN OF PENDLETON TOWN OF PENDLETON TOWN OF PINE RIDGE TOWN OF PINE RIDGE TOWN OF PINE WOOD TOWN OF POMARIA TOWN OF POMARIA TOWN OF POSPERITY TOWN OF ROSPERITY TOWN OF ROSPERITY TOWN OF RAVENEL TOWN OF RIDGE SPRING TOWN OF RIDGE SPRING TOWN OF RIDGE SPRING TOWN OF RIDGELAND TOWN OF RIDGEVILLE TOWN O
TOWN OF PAMPLICO TOWN OF PARKSVILLE TOWN OF PARKSVILLE TOWN OF PATRICK TOWN OF PELION TOWN OF PELION TOWN OF PELZER TOWN OF PENDLETON TOWN OF PENDLETON TOWN OF PENDLETON TOWN OF PINE RIDGE Y TOWN OF PINE RIDGE Y TOWN OF POMARIA TOWN OF POMARIA TOWN OF POSSPERITY TOWN OF POSSPERITY TOWN OF RAVENEL TOWN OF RAVENEL TOWN OF REIDGE SPRING Y TOWN OF RIDGE SPRING Y TOWN OF RIDGELAND Y TOWN OF RIDGELAND Y TOWN OF RIDGEWAY TOWN OF RIDGEWAY TOWN OF RIDGEWAY TOWN OF RIDGEWAY TOWN OF RUBGEWAY TOWN OF RUBGEWAY TOWN OF RUBGEWAY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALUDA Y TOWN OF SALUDA Y TOWN OF SALUDA Y TOWN OF SANTEE
TOWN OF PARKSVILLE TOWN OF PATRICK TOWN OF PELION TOWN OF PELION TOWN OF PELZER TOWN OF PENDLETON TOWN OF PENDLETON TOWN OF PERRY TOWN OF PINE RIDGE Y TOWN OF PINE RIDGE Y TOWN OF POMARIA TOWN OF PORT ROYAL Y TOWN OF POSPERITY Y TOWN OF ROSPERITY Y TOWN OF REVESVILLE TOWN OF REVESVILLE TOWN OF RIDGE SPRING Y TOWN OF RIDGE SPRING Y TOWN OF RIDGE SPRING Y TOWN OF RIDGEWAY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALUDA
TOWN OF PATRICK TOWN OF PELION Y TOWN OF PELION Y TOWN OF PELZER Y TOWN OF PENDLETON Y Y Y TOWN OF PERRY Y Y TOWN OF PINE RIDGE Y TOWN OF PINEWOOD Y TOWN OF POMARIA Y TOWN OF POMARIA Y TOWN OF PORT ROYAL Y Y Y TOWN OF PROSPERITY Y Y TOWN OF RESPESSYILLE Y TOWN OF REVESSVILLE Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGE SPRING Y Y TOWN OF RIDGEULLE Y TOWN OF RIDGEWAY Y TOWN OF RIDGEWAY Y TOWN OF RIDGEWAY Y TOWN OF RUBY Y TOWN OF SALLEY Y TOWN OF SALLEY Y TOWN OF SALLEY Y TOWN OF SALUDA Y Y Y Y TOWN OF SALUDA Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TOWN OF PELION TOWN OF PELZER Y TOWN OF PENDLETON Y Y Y TOWN OF PERRY Y Y TOWN OF PERRY Y Y TOWN OF PINE RIDGE Y Y TOWN OF PINEWOOD Y TOWN OF POMARIA Y TOWN OF POMARIA Y TOWN OF PORT ROYAL Y Y Y TOWN OF PROSPERITY Y Y Y TOWN OF RESPESSYILLE Y TOWN OF REVESVILLE Y TOWN OF RIDGE SPRING Y Y Y TOWN OF RIDGELAND Y Y Y TOWN OF RIDGEWAY Y Y TOWN OF RIDGEWAY Y TOWN OF RIDGEWAY Y TOWN OF ROSPERITY Y Y TOWN OF RIDGEWAY Y TOWN OF SALLEY Y TOWN OF SALLEY Y TOWN OF SALLEY Y TOWN OF SALUDA Y Y Y TOWN OF SALUDA Y Y Y Y TOWN OF SANTEE
TOWN OF PELZER TOWN OF PENDLETON Y TOWN OF PERRY Y TOWN OF PERRY Y TOWN OF PINE RIDGE Y TOWN OF PINEWOOD Y TOWN OF POMARIA Y TOWN OF PORT ROYAL Y TOWN OF PROSPERITY Y TOWN OF ROSPERITY Y TOWN OF RAVENEL Y TOWN OF REVESVILLE TOWN OF RIDGE SPRING Y TOWN OF RIDGE SPRING Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEWAY TOWN OF RIDGEWAY TOWN OF RIDGEWAY TOWN OF SALLEY TOWN OF SALLEY Y TOWN OF SANTEE
TOWN OF PENDLETON TOWN OF PERRY TOWN OF PINE RIDGE Y TOWN OF PINEWOOD TOWN OF POMARIA Y TOWN OF PORT ROYAL TOWN OF PROSPERITY TOWN OF QUINBY TOWN OF RAVENEL TOWN OF REVESVILLE Y TOWN OF RIDGE SPRING Y TOWN OF RIDGELAND Y TOWN OF RIDGEVAL Y TOWN OF RIDGEWAY TOWN OF RIDGEWAY TOWN OF SALLEY TOWN OF SALUDA TOWN OF SALUDA TOWN OF SANTEE
TOWN OF PERRY TOWN OF PINE RIDGE Y TOWN OF PINEWOOD Y TOWN OF POMARIA Y TOWN OF PORT ROYAL Y TOWN OF PROSPERITY Y TOWN OF QUINBY Y TOWN OF RAVENEL Y TOWN OF REVESVILLE Y TOWN OF RIDGE SPRING Y TOWN OF RIDGELAND Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEWAY TOWN OF ROSPERITY Y TOWN OF SALLEY Y TOWN OF SALLEY Y TOWN OF SALLEY Y TOWN OF SALLEY Y TOWN OF SANTEE
TOWN OF PINE RIDGE TOWN OF PINEWOOD TOWN OF PINEWOOD TOWN OF POMARIA TOWN OF POMARIA TOWN OF PORT ROYAL TOWN OF PROSPERITY TOWN OF ROSPERITY TOWN OF RAVENEL TOWN OF REEVESVILLE TOWN OF RIDGE SPRING TOWN OF RIDGELAND TOWN OF RIDGELAND TOWN OF RIDGEWAY TOWN OF RUBGEWAY TOWN OF RUBGEWAY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALUDA TOWN OF SANTEE
TOWN OF PINEWOOD TOWN OF POMARIA Y TOWN OF PORT ROYAL Y TOWN OF PROSPERITY Y TOWN OF QUINBY Y TOWN OF RAVENEL Y TOWN OF REEVESVILLE Y TOWN OF RIDGE SPRING Y TOWN OF RIDGELAND Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEWAY Y TOWN OF ROBEWAY Y TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALUDA Y TOWN OF SANTEE
TOWN OF POMARIA TOWN OF PORT ROYAL Y Y TOWN OF PROSPERITY TOWN OF QUINBY TOWN OF RAVENEL Y TOWN OF REEVESVILLE Y TOWN OF RIDGE SPRING Y TOWN OF RIDGELAND Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEWAY TOWN OF RIDGEWAY TOWN OF RUBY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALUDA Y Y Y Y Y Y Y Y Y Y Y Y Y
TOWN OF PORT ROYAL TOWN OF PROSPERITY TOWN OF QUINBY TOWN OF RAVENEL TOWN OF REEVESVILLE Y TOWN OF RIDGE SPRING Y TOWN OF RIDGELAND Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEWAY TOWN OF RIDGEWAY TOWN OF RUBY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALUDA TOWN OF SANTEE
TOWN OF PROSPERITY TOWN OF QUINBY TOWN OF RAVENEL TOWN OF REEVESVILLE TOWN OF RIDGE SPRING TOWN OF RIDGELAND TOWN OF RIDGEVILLE TOWN OF RIDGEWAY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALUDA TOWN OF SANTEE
TOWN OF QUINBY TOWN OF RAVENEL Y TOWN OF REEVESVILLE Y TOWN OF RIDGE SPRING Y Y Y TOWN OF RIDGELAND Y Y Y Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEVILLE Y TOWN OF RIDGEVILLE Y TOWN OF SALUBY Y TOWN OF SALUDA Y TOWN OF SANTEE
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TOWN OF RIDGEVILLE TOWN OF RIDGEWAY TOWN OF RUBY TOWN OF SALLEY TOWN OF SALLEY TOWN OF SALUDA TOWN OF SANTEE Y Y Y Y
TOWN OF RIDGEWAY TOWN OF RUBY TOWN OF SALLEY TOWN OF SALUDA Y Y Y Y Y Y Y Y Y Y Y Y Y
TOWN OF RUBY TOWN OF SALLEY Y Y TOWN OF SALUDA Y Y Y Y Y Y Y Y Y Y Y Y Y
TOWN OF SALLEY TOWN OF SALUDA Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y
TOWN OF SALUDA Y Y Y TOWN OF SANTEE Y Y Y
TOWN OF SANTEE Y Y
TOWN OF SCRANTON Y Y
TOWN OF SEABROOK ISLAND Y
TOWN OF SIX MILE Y
TOWN OF SNELLING Y
TOWN OF SOCIETY HILL Y Y
TOWN OF SOUTH CONGAREE Y Y
TOWN OF SPRINGDALE Y Y
TOWN OF SPRINGFIELD Y Y
TOWN OF ST GEORGE Y Y
TOWN OF ST MATTHEWS Y Y
TOWN OF ST STEPHEN Y Y
TOWN OF SULLIVANS ISLAND Y Y
TOWN OF SUMMERTON Y Y
TOWN OF SUMMERVILLE Y Y
TOWN OF SURFSIDE BEACH Y Y

<u>Name</u>	<u>SCRS</u>	<u>PORS</u>
TOWN OF SWANSEA	Υ	Υ
TOWN OF TIMMONSVILLE	Υ	Υ
TOWN OF TRENTON	Υ	Υ
TOWN OF TURBEVILLE	Υ	Υ
TOWN OF VARNVILLE	Υ	Υ
TOWN OF WAGENER	Υ	Υ
TOWN OF WARE SHOALS	Υ	Υ
TOWN OF WELLFORD	Υ	Υ
TOWN OF WEST PELZER	Υ	Υ
TOWN OF WEST UNION	Υ	Υ
TOWN OF WESTMINSTER	Υ	Υ
TOWN OF WHITMIRE	Υ	Υ
TOWN OF WILLIAMSTON	Υ	Υ
TOWN OF WILLISTON	Υ	Υ
TOWN OF WINNSBORO	Υ	Υ
TOWN OF YEMASSEE	Υ	Υ
TRI-COUNTY COMM ON ALCOHOL & DRUG ABUSE	Υ	
TRI-COUNTY SOLID WASTE AUTHORITY	Υ	
TYGER RIVER FIRE DISTRICT	Υ	Υ
UNA FIRE DEPARTMENT		Υ
UNION CO DISABILITIES & SPECIAL NEEDS BD	Υ	
UNION COUNTY CARNEGIE LIBRARY	Υ	
UNION COUNTY COUNCIL OF AGING	Υ	
UNION COUNTY DEVELOPMENT BOARD	Υ	
UNION COUNTY SUPERVISOR	Υ	Υ
UPPER SAVANNAH COUNCIL OF GOVERNMENTS	Υ	
VALLEY PUBLIC SERVICE AUTHORITY	Υ	
WACCAMAW ECONOMIC OPPORTUNITY COUNCIL	Υ	
WACCAMAW REGIONAL COUNCIL OF GOVERNMENTS	Υ	
WACCAMAW REGIONAL TRANSPORTATION AUTH	Υ	
WADE HAMPTON FIRE & SEWER DISTRICT	Υ	Υ
WEST FLORENCE RURAL VOLUNTEER FIRE DIST		Υ
WESTVIEW BEHAVIORAL HEALTH SERVICES	Υ	
WESTVIEW-FAIRFOREST FIRE DEPARTMENT	Υ	Υ
WHITESVILLE RURAL VOL FIRE DEPT		Υ
WHITMIRE COMM OF PUBLIC WORKS	Υ	
WHITNEY AREA FIRE DEPT		Υ
WILLIAMSBURG CO DISAB & SPECIAL NEEDS BD	Υ	
WILLIAMSBURG COUNTY COUNCIL	Υ	Υ
WILLIAMSBURG COUNTY LIBRARY	Υ	
WINDY HILL VOLUNTEER FIRE COMPANY		Υ
WOODRUFF ROEBUCK WATER DISTRICT	Υ	
YORK CO COVENTION & VISITORS BUREAU	Υ	
YORK CO DISABILITIES & SPECIAL NEEDS BD	Υ	
YORK COUNTY	Υ	Υ
YORK COUNTY COUNCIL ON AGING	Υ	Υ
YORK COUNTY LIBRARY	Υ	
YORK SOIL & WATER CONSERVATION DIST	Υ	





202 Arbor Lake Drive Columbia, SC 29223 803.737.6800 | 888.260.9430 www.peba.sc.gov