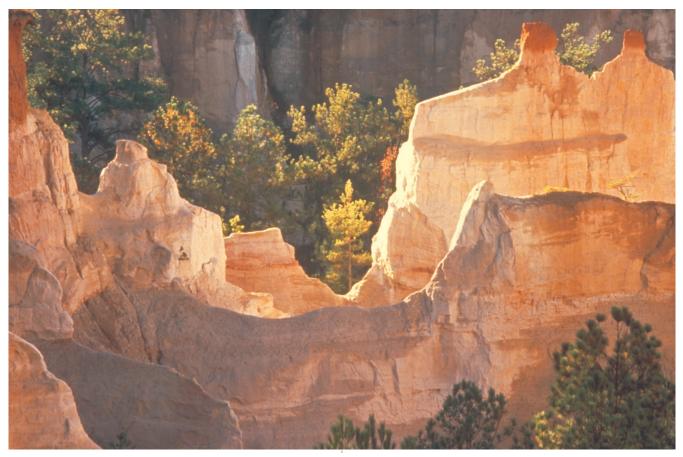
Employees' Retirement System of Georgia (Including All Plans and Funds Administered by the Employees' Retirement System of Georgia)

## Financial Statements, Required Supplementary Information, and Additional Information

Fiscal Year Ended June 30, 2019 A component unit of the State of Georgia

## Finding the Hidden Gems in Georgia



Providence Canyon, Lumpkin





Employees' Retirement System of Georgia (Including All Plans and Funds Administered by the Employees' Retirement System of Georgia)

## Financial Statements, Required Supplementary Information, and Additional Information

Fiscal Year Ended June 30, 2019 A component unit of the State of Georgia

## Finding the Hidden Gems in Georgia



Goats on the Roof - Tiger (photo: Jerry Jaynes)

## James A. Potvin Executive Director

A component unit of the State of Georgia



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## Finding the Hidden Gems in Georgia



The Rock Garden, Calhoun





KPMG LLP Suite 2000 303 Peachtree Street, NE Atlanta, GA 30308-3210

#### Independent Auditors' Report

The Board of Trustees Employees' Retirement System of Georgia:

#### **Report on the Financial Statements**

We have audited the accompanying financial statements of the fiduciary activities and the proprietary activity of the Employees' Retirement System of Georgia (the System), a component unit of the State of Georgia, as of and for the year ended June 30, 2019, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements Management is responsible for the preparation and fair presentation of these financial statements in accordance with U.S. generally accepted accounting principles; 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 opinions 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 respective financial position of the fiduciary activities and proprietary activity of the System as of June 30, 2019, and the respective changes in financial position and where applicable, cash flows thereof, for the year then ended in accordance with U.S. generally accepted accounting principles.

#### **Other Matters**

#### Required Supplementary Information

U.S. generally accepted accounting principles require that the management's discussion and analysis, schedules of employers' and nonemployers' contributions – defined benefit plans, schedules of employers' and nonemployers' net pension/OPEB liability and related ratios – defined benefit plans, schedules of changes in employers' and



nonemployers' net pension/OPEB liability - defined benefit plans, schedule of investment returns, schedules of the System's proportionate share of the Net OPEB Liability, and schedules of the System's contributions to OPEB plans on pages 58-75, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

#### Supplementary and Other Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the System's basic financial statements. The Survivors Benefit Fund statement of changes in assets and liabilities and schedule of administrative expensescontributions and expenses are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The Survivors Benefit Fund statement of changes in assets and liabilities and schedule of administrative expenses-contributions and expenses and investment expenses are the responsibility of management and were derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Survivors Benefit Fund statement of changes in assets and liabilities and the schedule of administrative expenses-contributions and expenses and investment expenses are fairly stated in all material respects in relation to the basic financial statements as a whole.

## Other Reporting Required by *Government Auditing Standards*

In accordance with Government Auditing Standards, we have also issued our report dated September 30, 2019 on our consideration of the System's 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 System's 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 System's internal control over financial reporting and compliance.

KPMG LLP

Atlanta, Georgia September 30, 2019

#### Management's Discussion and Analysis (Unaudited)

June 30, 2019

This section provides a discussion and analysis of the financial performance of the Employees' Retirement System of Georgia (the System) for the year ended June 30, 2019. The discussion and analysis of the System's financial performance is within the context of the accompanying basic financial statements, notes to the financial statements, required supplementary schedules, and additional information following this section.

The System is responsible for administering a cost-sharing, multiple-employer defined benefit pension plan for various employer agencies of Georgia, along with six other defined benefit pension plans, a defined benefit OPEB plan, three defined contribution plans, and an agency fund, all of which comprise the fiduciary funds. The System is also responsible for administering an enterprise fund, which comprises the proprietary fund.

The defined benefit pension plans include:

- Employees' Retirement System (ERS)
- Public School Employees Retirement System (PSERS)
- Legislative Retirement System (LRS)
- Georgia Judicial Retirement System (GJRS)
- Georgia Military Pension Fund (GMPF)
- Superior Court Judges Retirement Fund (SCJRF)
- District Attorneys Retirement Fund (DARF)

The defined benefit OPEB plan consists of the State Employees' Assurance Department Retired and Vested Inactive Members Trust Fund (SEAD-OPEB).

The defined contribution retirement plans include:

- Georgia Defined Contribution Plan (GDCP)
- State of Georgia Employees' Qualified Trust Deferred Compensation Plan (401(k) Plan)
- State of Georgia Employees' Deferred Compensation Plan (457 Plan)

The agency fund consists of the Survivors Benefit Fund (SBF).

The enterprise fund consists of the State Employees' Assurance Department Active Members Fund (SEAD-Active).

#### **Overview of Financial Statements**

A fund is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. The System administers two categories of funds: fiduciary funds and a proprietary fund. Information related to the financial statements of the funds is presented in the notes to the financial statements.

*Fiduciary funds* are used to account for resources held for the benefit of parties outside of the System. The primary focus of the System's fiduciary funds is the accumulation of resources for and the payment of pension and OPEB benefits. The System maintains four types of fiduciary funds: (1) defined benefit pension trust funds which are used to report resources held in trust for pensions for retirees and beneficiaries covered by ERS, PSERS, LRS, GJRS, GMPF, SCJRF, and DARF (2) a defined benefit OPEB trust fund, which is used to report resources held in trust for retirees and beneficiaries covered by SEAD-OPEB (3) defined contribution pension trust funds, which are used to accumulate contributions and earnings in the accounts of participants covered by GDCP, the 401(k) Plan, and the 457 Plan, and (4) an agency fund, which is used to report resources held by the SBF in a custodial capacity for other plans.

*Proprietary funds*, which include enterprise and internal services funds, are used to account for the System's activities that are similar to private-sector businesses. The System maintains one proprietary fund, which is an enterprise fund, SEAD-Active. The primary focus of the System's enterprise fund is the accumulation of resources for,

#### Management's Discussion and Analysis (Unaudited)

and payment of, group term life insurance benefits for active members of ERS, LRS, and GJRS covered by SEAD-Active.

The basic financial statements comprise statements for both fiduciary and proprietary funds. The fiduciary fund financial statements include (1) *Combining Statement of Fiduciary Net Position* (2) *Defined Benefit Plans* – *Combining Statement of Fiduciary Net Position*, and (4) *Defined Benefit Plans* – *Combining Statement of Changes in Fiduciary Net Position*, and (4) *Defined Benefit Plans* – *Combining Statement of Changes in Fiduciary Net Position*, and (4) *Defined Benefit Plans* – *Combining Statement of Changes in Fiduciary Net Position*. The proprietary fund financial statements include (1) *Statement of Net Position* (2) *Statement of Revenues, Expenses, and Changes in Net Position* and (3) *Statement of Cash Flows*.

In addition, the System presents six types of required supplementary schedules, which provide historical trend information about the plan. Four of the schedules are presented from the perspective of the System reporting as the plan and include (1) *Schedules of Employers' and Nonemployers' Contributions* (2) *Schedules of Employers' and Nonemployers' Net Pension/OPEB Liability and Related Ratios* (3) *Schedules of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability* and (4) *Schedule of Investment Returns*. Two of the schedules are presented from the perspective of the System reporting as the employer for its employees who participate in the State Employees' Assurance Department Retired and Vested Inactive Members Trust Fund (SEAD-OPEB) and the Georgia State Employees Postemployment Benefit Fund (State OPEB Fund) and include the (5) *Schedules of the System's Proportionate Share of the Net OPEB Liability* and (6) *Schedules of the System's Contributions to OPEB Plans*. The System also includes in this report additional information to supplement the financial statements.

The System prepares its financial statements on the accrual basis of accounting in accordance with U.S. generally accepted accounting principles as promulgated by the Governmental Accounting Standards Board (GASB). These statements provide information about the System's overall financial status.

#### **Financial Highlights**

The highlights of the fiduciary funds of the System are as follows:

- The net position of the fiduciary funds increased by \$361.2 million, or 2.0%, from \$17.9 billion at June 30, 2018 to \$18.3 billion at June 30, 2019. The increase in net position from 2018 to 2019 was primarily due to positive fixed income and equity market returns.
- For the year ended June 30, 2019, the total additions to net position were \$2.1 billion compared to \$2.4 billion for the year ended June 30, 2018. For the year ended June 30, 2019, the additions consisted of employer, nonemployer contributing entities (nonemployer), and member contributions totaling \$934.0 million, insurance premiums of \$3.3 million, net investment income of \$1.2 billion, and participant fees of \$0.6 million.
- Net investment income of \$1.2 billion in 2019 (comprising interest and dividend income, the change in fair value of investments, and other, reduced by investment expenses) represents a decrease of \$353.4 million, or 23.4%, compared to the net investment income of \$1.5 billion for the year ended June 30, 2018. The change in net investment income was primarily due to more moderate equity gains in 2019 compared to 2018.
- The total deductions from net position were \$1.7 billion for the years ended June 30, 2019 and 2018. For the year ended June 30, 2019, the deductions primarily consisted of benefit payments.

The highlights of the proprietary fund of the System are as follows:

- The net position of the proprietary fund increased by \$16.7 million to \$305.9 million at June 30, 2019 compared to \$289.2 million at June 30, 2018. The increase in net position from 2018 to 2019 was primarily due to positive fixed income and equity market returns.
- For the year ended June 30, 2019, total operating loss was \$3.0 million compared to \$2.5 million for the year ended June 30, 2018. The increase relates primarily to an increase in the number of active members who received death benefits during the year.
- Net investment income allocated from the pooled investment fund of \$19.6 million in 2019 represents a decrease of \$4.8 million, or 19.6%, compared to net investment income allocated from the pooled investment fund of \$24.4

#### Management's Discussion and Analysis (Unaudited)

million for the year ended June 30, 2018. The change in investment income allocated from the pooled investment fund was primarily due to more moderate equity gains in 2019 compared to 2018.

#### **Description of the Financial Statements**

#### Fiduciary Funds

The *Combining Statement of Fiduciary Net Position* is the statement of financial position presenting information that includes the fiduciary funds' assets and liabilities, with the balance representing the Net Position Restricted for Pensions and OPEB. The investments of the funds in this statement are presented at fair value. This statement is presented on page 13.

The *Combining Statement of Changes in Fiduciary Net Position* reports how the fiduciary funds' net position changed during the fiscal year. The additions include contributions to the retirement plans from employers, nonemployers, and members; group term life insurance premiums; participant fees; and net investment income, which includes interest and dividends and the net increase in the fair value of investments, net of investment expenses. The deductions include benefit payments, life insurance death benefit payments, refunds of member contributions and interest, and administrative expenses. This statement is presented on page 15.

The Defined Benefit Plans' Combining Statement of Fiduciary Net Position and the Combining Statement of Changes in Fiduciary Net Position present the financial position and changes in financial position for each of the defined benefit plans administered by the System. These statements are on pages 14 and 16, respectively.

#### Proprietary Funds

The *Statement of Net Position* is the statement of financial position presenting information that includes the assets and liabilities, with the balance representing the net position. This statement is presented on page 17.

The *Statement of Revenues, Expenses, and Changes in Net Position* distinguishes operating revenues and expenses from nonoperating items. Principal operating revenues result from insurance premiums from members, while operating expenses result from death benefit payments and administrative expenses. All revenues and expenses not meeting this definition are reported as nonoperating revenues and expenses. This statement is presented on page 18.

The *Statement of Cash Flows* provides information about cash receipts and cash payments during the year. When used in conjunction with related disclosures and information in the other financial statements, the statement provides relevant information about the plan's ability to generate future net cash flows, the plan's ability to meet its obligations as they come due, and presents the reasons for differences between operating income and associated cash receipts and payments. This statement is presented on page 19.

**Notes to Financial Statements** are presented to provide the information necessary for a full understanding of the financial statements. The notes to the financial statements begin on page 20.

Required Supplementary Information begins on page 58. The required schedules are discussed as follows:

- The Schedule of Employers' and Nonemployers' Contributions presents historical trend information for the last 10 consecutive fiscal years about the required contributions and the percent of required contributions actually contributed.
- The Schedule of Employers' and Nonemployers' Net Pension/OPEB Liability and Related Ratios presents the components of the net pension/OPEB liability as of the fiscal year end and the fiduciary net position as a percentage of the total pension/OPEB liability as of that date. This trend information will be accumulated to display a 10-year presentation.

#### Management's Discussion and Analysis (Unaudited)

• The Schedule of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability presents total net pension/OPEB liability and is measured as total pension/OPEB liability less the amount of the fiduciary net position. This trend information will be accumulated to display a 10-year presentation.

Required Supplementary Information (continued)

- The *Schedule of Investment Returns* presents historical trend information about the annual money-weighted rate of return on plan investments, net of plan investment expense. This trend information will be accumulated to display a 10-year presentation.
- The Schedule of the System's Proportionate Share of the Net OPEB Liability presents historical trend information about the System's proportionate share of the net OPEB liability (asset) for its employees who participate in the SEAD-OPEB plan and the State OPEB Fund. This trend information will be accumulated to display a 10-year presentation.
- The Schedule of the System's Contributions to OPEB Plans presents historical trend information about the System's contributions for its employees who participate in the SEAD-OPEB plan and the State OPEB Fund. This trend information will be accumulated to display a 10-year presentation.

Three of the required schedules above, the *Schedules of Employers' and Nonemployers' Contributions*, the *Schedules of Employers' and Nonemployers' Net Pension/OPEB Liability and Related Ratios*, and the *Schedules of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability* are applicable to five of the defined benefit pension plans (ERS, PSERS, LRS, GJRS, and GMPF) and the defined benefit OPEB plan (SEAD-OPEB).

**Notes to Required Supplementary Information** are presented to provide the information necessary for a full understanding of the supplementary schedules. The notes to required supplementary information begin on page 71.

**Additional information** is presented, beginning on page 76, and includes the *Statement of Changes in Assets and Liabilities* for the Survivors Benefit Fund, which presents additions to and deductions from the fund and the *Schedule of Administrative Expenses – Contributions and Expenses* which presents the expenses incurred in the administration of the plans and funds, and the contributions from each plan and fund to provide for these expenses.

#### Management's Discussion and Analysis (Unaudited)

#### **Financial Analysis of the System**

A summary of the System's net position of the fiduciary funds at June 30, 2019 is as follows (dollars in thousands):

	Net po	sition		
	2019	2018	Amount change	Percentage change
Assets:				
Cash, cash equivalents, and receivables	\$ 533,422	366,532	166,890	45.5%
Investments	18,226,094	18,000,993	225,101	1.3
Capital assets, net	6,552	6,738	(186)	(2.8)
Net OPEB asset	541	501	40	8.0
Total assets	18,766,609	18,374,764	391,845	2.1
Deferred outflows of resources	1,156	938	218	23.2
Liabilities:				
Due to brokers, accounts payable, and insurance premiums payable	36,003	30,882	5,121	16.6
Due to other funds/plans and participating systems	464,539	437,628	26,911	6.1
Net OPEB liability	4,749	7,571	(2,822)	(37.3)
Total liabilities	505,291	476,081	29,210	6.1
Deferred inflows of resources	2,389	701	1,688	240.8
Net position	\$ 18,260,085	17,898,920	361,165	2.0

A summary of the System's net position of the proprietary fund at June 30, 2019 is as follows (dollars in thousands):

		Net po	osition		
		2019	2018	Amount change	Percentage change
Assets:					
Cash, cash equivalents, and receivables	\$	124	162	(38)	(23.5)%
Investments		305,795	289,087	16,708	5.8
Total assets	_	305,919	289,249	16,670	5.8
Liabilities:					
Accounts payable and other		42	42		_
Net position	\$	305,877	289,207	16,670	5.8

#### Management's Discussion and Analysis (Unaudited)

The following table presents the investment allocation at June 30, 2019, and 2018:

	2019	2018
Asset allocation at June 30 (in percentages):		
Equities:		
Domestic	45.8%	46.3%
International	15.3	15.6
Private equity	1.8	1.2
Domestic obligations:		
U.S. treasuries	20.8	18.8
Corporate and other bonds	6.1	8.2
International obligations:		
Corporates	0.5	1.1
Commingled funds	9.7	8.8
Asset allocation at June 30 (in thousands): Equities:		
Domestic	\$ 8,350,863	\$ 8,332,421
International	2,786,569	2,807,854
Private equity	335,306	221,904
Domestic obligations:		
U.S. treasuries	3,784,262	3,374,310
Corporate and other bonds	1,104,643	1,475,432
International obligations:		
Corporates	95,134	190,353
Mutual funds	8,114	7,228
Commingled funds	 1,761,203	 1,591,491
	\$ 18,226,094	\$ 18,000,993

The total investment portfolio increased by \$225.1 million, or 1.3%, from 2018, which is due to positive fixed income and equity market returns.

Investment performance is calculated using a time-weighted rate of return using the Daily Valuation Method. The time-weighted rate of return for the fiscal year ended June 30, 2019, was 6.9% with a 6.5% return for equities, a 19.6% return for private equity, and a 7.1% return for fixed income. The five-year annualized rate of return at June 30, 2019, was 6.7% with an 8.4% return for equities, a 13.5% return for private equity, and a 2.6% return for fixed income.

#### Management's Discussion and Analysis (Unaudited)

A money-weighted return is weighted by the amount of dollars in the fund at the beginning and end of the performance period. A money-weighted return is highly influenced by the timing of cash flows into and out of the fund and is a better measure of an entity or person who controls the cash flows into or out of the fund. The non-discretionary cash flows for the plan, primarily contributions and benefit payments, have a considerable impact on the money-weighted returns of the portfolio. The money-weighted rate of return for the fiscal year ended June 30, 2019, was (1.8)%, compared to 0.6% for the fiscal year ended June 30, 2018.

A summary of the changes in the System's net position of the fiduciary funds for the year ended June 30, 2019 is as follows (dollars in thousands):

		Change posi			
		2019	2018	Amount change	Percentage change
Additions:					
Employer contributions	\$	692,481	690,516	1,965	0.3 %
Nonemployer contributions		42,620	43,982	(1,362)	(3.1)
Member contributions		198,928	190,091	8,837	4.6
Participant fees		597	1,744	(1,147)	(65.8)
Insurance premiums		3,328	3,599	(271)	(7.5)
Net investment income		1,156,418	1,509,803	(353,385)	(23.4)
Other	-	13	15	(2)	(13.3)
Total additions	-	2,094,385	2,439,750	(345,365)	(14.2)
Deductions:					
Benefit payments		1,660,330	1,608,691	51,639	3.2
Refunds		19,854	18,538	1,316	7.1
Death benefits		37,416	36,249	1,167	3.2
Administrative expenses	-	15,620	16,308	(688)	(4.2)
Total deductions	-	1,733,220	1,679,786	53,434	3.2
Net increase in net position	\$	361,165	759,964	(398,799)	(52.5)

*Additions* – The System accumulates resources needed to fund benefit payments through contributions and returns on invested funds. In fiscal year 2019, total contributions increased \$9.4 million, or 1.0%, primarily due to modest overall salary increases. Net investment income decreased by \$353.4 million, or 23.4%, due primarily to equity returns moderating somewhat in fiscal year 2019 compared to 2018.

*Deductions* – For fiscal year 2019, total deductions increased \$53.4 million, or 3.2%, primarily because of an increase of \$51.6 million, or 3.2%, in benefit payments. Pension benefit payments increased due to an increase in the number of retirees and beneficiaries receiving benefits in 2019 in addition to cost of living adjustments of 2% for PSERS members and two one-time benefit payments of 2% for ERS, JRS, and LRS members. Refunds increased by \$1.3 million, or 7.1%, which was primarily due to an increase in the number of refunds processed during 2019.

#### Management's Discussion and Analysis (Unaudited)

A summary of the changes in the System's net position of the proprietary fund for the year ended June 30, 2019 is as follows (dollars in thousands):

		Changes posit			
		2019	2018	Amount change	Percentage change
Operating revenue:					
Insurance premiums	\$_	531	540	(9)	(1.7) %
Total operating revenue	_	531	540	(9)	(1.7)
Operating expenses:					
Death benefits		3,424	2,972	452	15.2
Administrative expenses	_	80	76	4	5.3
Total operating expenses	_	3,504	3,048	456	15.0
Total operating loss		(2,973)	(2,508)	(465)	(18.5)
Nonoperating revenue:					
Allocation of investment income from pooled investment fund,net	_	19,643	24,429	(4,786)	(19.6)
Change in net position	\$ _	16,670	21,921	(5,251)	(24.0)

*Operating and nonoperating revenue* – The proprietary fund accumulates resources needed to fund death benefit payments through premiums earned and returns on invested funds. In fiscal year 2019, total premiums earned decreased \$9.0 thousand, or 1.7%, primarily due to a decrease in the number of participating members allowed in the plan. Effective January 1, 2009, the plan was closed to new members. Allocation of investment income from the pooled investment fund, net of related expenses, decreased by \$4.8 million, or 19.6%, primarily due to equity returns moderating somewhat in fiscal year 2019 compared to 2018.

*Operating expenses* – For fiscal year 2019, death benefits increased by \$0.5 million, or 15.2%, which was primarily due to an increase in the number of death claims processed during 2019. Administrative expenses increased by \$4.0 thousand over the prior year, or 5.3%, primarily due to increased contractual services costs.

#### **Requests for Information**

This financial report is designed to provide a general overview of the System's finances for all those with interest in the System's finances. Questions concerning any of the information provided in this report or requests for additional information should be addressed to Employees' Retirement System of Georgia, Two Northside 75, Suite 300, Atlanta, GA 30318.

#### **Combining Statement of Fiduciary Net Position**

#### June 30, 2019

(In thousands)

		Defined contribution plans						
Assets	Defined benefit plans	Pooled Investment Fund	Georgia Defined Contribution Plan	401(k) Plan	457 Plan	Survivors Benefit Fund	Eliminations	Total
Cash and cash equivalents	\$ 28,021	381,322	16,425	11,633	1,549	86	-	439,036
Receivables: Contributions Interest and dividends Due from brokers for securities sold Other	38,124 — — —	 46,236 1,374	1,051 454 —	3,946 20  246	492 13 — 112		=	43,613 46,723 1,374
Unremitted insurance premiums	2,318 478	_	_	240		_	(478)	2,676
Total receivables	40,920	47,610	1,505	4,212	617	_	(478)	94,386
Investments - at fair value: Domestic obligations: U.S. treasuries Corporate and other bonds		3,696,962 1,083,735	87,300 20,908	_		_		3,784,262 1,104,643
International obligations: Corporates Equities:	_	95,134	-	-	_	-	_	95,134
Domestic International	—	8,334,829	—	9,133 740	6,901 1,026	—	-	8,350,863
Private equity	_	2,784,803 335,306	_	740	1,026	_	_	2,786,569 335,306
Mutual funds Commingled funds				3,821 1,134,398	4,293 626,805		=	8,114 1,761,203
Equity in pooled investment fund	16,282,939					158,658	(16,441,597)	
Total investments	16,282,939	16,330,769	108,208	1,148,092	639,025	158,658	(16,441,597)	18,226,094
Capital assets, net	6,552	—	_	—	_	_	-	6,552
Net OPEB asset	541					_		541
Total assets	16,358,973	16,759,701	126,138	1,163,937	641,191	158,744	(16,442,075)	18,766,609
Deferred outflows of resources	1,156	_	_	_	_	_	-	1,156
Liabilities								
Accounts payable and other Due to brokers for securities purchased	19,189 —	2,160 10,149	488	2,728	1,217		-	25,782 10,149
Insurance premiums payable	550	_	_	_	_	_	(478)	72
Due to other funds/plans	_	—	_	_	_	158,744	-	158,744
Due to participating systems Net OPEB liability	4.749	16,747,392		_		_	(16,441,597)	305,795 4,749
Total liabilities		10 750 704	488	0.700		450.744	(16,440,075)	
	24,488	16,759,701	488	2,728	1,217	158,744	(16,442,075)	505,291
Deferred inflows of resources	2,389							2,389
Net position restricted for pensions and OPEB	\$ 16,333,252	_	125,650	1,161,209	639,974	_		18,260,085
See accompanying notes to financial statements.								

#### Defined Benefit Plans - Combining Statement of Fiduciary Net Position

### June 30, 2019

#### (In thousands)

	Defined benefit pension plans								
Assets	Employees' Retirement System	Public School Employees Retirement System	Legislative Retirement System	Georgia Judicial Retirement System	Georgia Military Pension Fund	Superior Court Judges Retirement Fund	District Attorneys Retirement Fund	State Employees' Assurance Department OPEB	Defined benefit plans total
Cash and cash equivalents	\$ 27,147	211	51	512	84	11	2	3	28,021
Receivables: Contributions Interest and dividends Due from brokers for securities sold Other Unremitted insurance premiums	37,328  2,059 	2  259 	28 — — —	766 — — —	  				38,124 — 
Total receivables	39,387	261	28	766		_		478	40,920
Investments - at fair value: Domestic obligations: U.S. treasuries Corporate and other bonds International obligations: Corporates Equities:	 								
Domestic	_	_	_	_	_	_	_	_	_
International Private equity	_	_	_	_	_	_	_	_	_
Mutual funds	_	_	_	_	_	_	_	_	_
Commingled funds Equity in pooled investment fund	 13,567,302	 942,101	 34,559	478,823	26,404		_	 1,233,750	16,282,939
Total investments	13,567,302	942,101	34,559	478,823	26,404			1,233,750	16,282,939
Capital assets, net	6,552								6,552
Net OPEB asset	541	_	_	_	_	_	_	_	541
Total assets	13,640,929	942,573	34,638	480,101	26,488	11	2	1,234,231	16,358,973
Deferred outflows of resources	1,156	_							1,156
Liabilities	.,								.,
Accounts payable and other Due to brokers for securities purchased	16,936 —	986 —	97	719	71	5		375 —	19,189
Insurance premiums payable	539	-	1	10	—	_	_	-	550
Due to other funds/plans Due to participating systems		_	_	_	_	_	_	_	_
Net OPEB liability	4,749			_					4,749
Total liabilities	22,224	986	98	729	71	5	—	375	24,488
Deferred inflows of resources	2,389	_		_				_	2,389
Net position restricted for pensions and OPEB	\$ 13,617,472	941,587	34,540	479,372	26,417	6	2	1,233,856	16,333,252

#### **Combining Statement of Changes in Fiduciary Net Position**

Year ended June 30, 2019 (In thousands)

			Defined c			
	Defined benefit plans	Pooled Investment Fund	Georgia Defined Contribution Plan	401(k) Plan	457 Plan	Total
Additions:						
Contributions:						
Employer	\$ 645,311	_	_	47,170	_	692,4
Nonemployer	42,620	_	_	_	_	42,6
Member	44,316	_	14,578	119,770	20,264	198,9
Participant fees	_	_		544	53	5
Insurance premiums	3,328	_	_	_	_	3,3
Administrative expense allotment	13	—	_	_	_	
Investment income:						
Net increase in fair value of investments	_	726,417	5,627	62,954	38,546	833,5
Interest and dividends	_	368,772	2,759	252	116	371,8
Other	—	—	_	(67)	1,216	1,1
Less investment expenses	(9,243)	(8,142)	(62)	(2,033)	(778)	(20,2
Allocation of investment income	1,057,131	(1,087,047)				(29,9
Net investment income	1,047,888	_	8,324	61,106	39,100	1,156,4
Total additions	1,783,476	_	22,902	228,590	59,417	2,094,3
Deductions:						
Benefit payments	1,538,595	_	10	79,644	42,081	1,660,
Refunds of member contributions and interest	8,923	_	10,931	_	_	19,
Death benefits	37,416	_	_	_	_	37,
Administrative expenses	10,583	_	882	3,431	724	15,
Total deductions	1,595,517	_	11,823	83,075	42,805	1,733,
Net increase in net position	187,959	—	11,079	145,515	16,612	361,
let position restricted for pension and OPEB:						
Beginning of year	16,145,293	_	114,571	1,015,694	623,362	17,898,
	\$ 16,333,252		125,650	1,161,209	639,974	18,260,0

#### Defined Benefit Plans - Combining Statement of Changes in Fiduciary Net Position

Year ended June 30, 2019 (In thousands)

International problems    Employee Retirement System    Segring System    Segring Suddial System    Segring Sugering Sugering Sugering System    Sugering Sugering Sugering Sugering System    Sugering Sugering Sugering Sugering System    Sugering Suger				Define	d benefit pensio	on plans			Defined benefit OPEB plan	
Contributions:    S    638,99     3,11    2,537    626    37    5    648,21      Member    36,222    3,0263     2,137       44,316      Participant fees         44,316      Member          44,316      Participant fees          3,228    3,328      Administrative expresse altorient    10		Retirement	School Employees Retirement	Retirement	Judicial Retirement	Military Pension	Court Judges Retirement	Attorneys Retirement	Employee's Assurance Department	benefit plans
Employer    \$    638,389      3,117    2,537    6626    37    5    646,311      Momembor    36,252    2,256    339    5,649      44,316      Participant fees          44,316      Insurance preniums           3,328    3,328      Administrative expense allothent	Additions:									i
Non-imployer    10.220    30.263     2.137       42.620      Member    36.652    2.256    39    5,469      43.16      Participant fees          44.316      Administrative expense allowent    0          3.328    3.328    3.328      Investment income:	Contributions:									
Member    36,252    2,256    339    5,469       44,316      Participant fees         3,328    3,328      Administrative expense allotment    10       2    1     3,328      Administrative expense allotment    10       2    1     3,328      Administrative expense allotment    10	Employer	\$ 638,989	_	_	3,117	2,537	626	37	5	645,311
Participant fees    -	Nonemployer	10,220	30,263	_	2,137	_	_	_	_	42,620
Participant fees    -	Member	36,252	2,256	339	5,469	_	_	_	_	44,316
Insurance premiums  —  —  —  —  —  —  3.328  3.328    Administrative expense allotment  10  —  —  —  —  2  1  —  13    Investment income:  —  —  —  —  —  —  —  —  —  —  —  —  —  —  … <t< td=""><td>Participant fees</td><td>· _</td><td></td><td>_</td><td></td><td>_</td><td>_</td><td>_</td><td>_</td><td>·</td></t<>	Participant fees	· _		_		_	_	_	_	·
Administrative expense allotment  10     2  1   13    Investment income:  Net increase in fair value of investments		_	_	_	_	_	_	_	3.328	3.328
Investment income:		10	_	_	_	_	2	1		
Net increase in fair value of investments  - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>·</td> <td></td> <td>10</td>							-	·		10
Net increase in fair value of investments  - </td <td>Investment income:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Investment income:									
Interest and dividends		_	_	_	_	_	_	_	_	_
Other    - <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>_</td> <td></td>					_				_	
Less investment expenses    (8,058)    (391)    (15)    (189)    (6)      (584)    (9,243)      Allocation of investment income    881462    60,944    2,243    31,016    1.689      79,777    1,057,131      Net investment income    873,404    60,553    2,228    30,827    1,683      79,193    1,047,888      Total additions    1,558,875    93,072    2,567    41,550    4,220    628    38    82,526    1,783,476      Deductions:    Benefit payments    1,443,756    63,637    1,856    27,462    1,221    626    37     82,336      Death benefits    1,443,756    63,637    1,856    27,462    1,221    626    37     82,933      Administrative expenses    1,443,756    63,637    1,856    27,462    1,221    626    37      8,923      Administrative expenses    1,443,756    65,623    2,216    28,83		_	_	_	_	_		_	_	_
Allocation of investment income  881,462  60,944  2,243  31,016  1,689  —  —  79,777  1,057,131    Net investment income  873,404  60,553  2,228  30,827  1,683  —  —  79,193  1,047,888    Total additions  1,558,875  93,072  2,567  41,550  4,220  628  38  82,526  1,783,476    Deductions:  Benefit payments  1,443,756  63,637  1,856  27,462  1,221  626  37  —  —  1,538,595    Benefit payments  1,443,756  63,637  1,856  27,462  1,221  626  37  —  —  8,923    Deductions:  1,443,756  63,637  1,856  27,462  1,221  626  37  —  —  8,923    Death benefits  —  —  —  —  —  —  —  —  37,416  37,416  37,416  37,416  37,416  37,416  37,416  37,416  37,416  35,517  7  —  —  —  —  44,394 <td></td> <td>(8.058)</td> <td>(391)</td> <td>(15)</td> <td>(189)</td> <td>(6)</td> <td>_</td> <td></td> <td>(584)</td> <td>(9 243)</td>		(8.058)	(391)	(15)	(189)	(6)	_		(584)	(9 243)
Net investment income    873,404    60,553    2,228    30,827    1,683      79,193    1,047,888      Total additions    1,558,875    93,072    2,567    41,550    4,220    628    38    82,526    1,783,476      Deductions:    Benefit payments    1,443,756    63,637    1,856    27,462    1,221    626    37     1,538,595      Deductions:    1,443,756    63,637    1,856    27,462    1,221    626    37     1,538,595      Deductions:    1,443,756    63,637    1,856    27,462    1,221    626    37      8,923      Death benefits           8,923    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    37,416    38,132		,	, ,	. ,	. ,		_	_	( )	· · /
Total additions    1.558.875    93.072    2.567    41.550    4.220    628    38    82.526    1.783.476      Deductions:    Benefit payments    1.443.756    63.637    1.856    27.462    1.221    626    37    —    1.538.595      Refunds of member contributions and interest    7.691    609    70    553    —    —    —    —    8.923    37.416 <t< td=""><td>Anotation of investment moome</td><td>001,402</td><td>00,044</td><td>2,240</td><td>01,010</td><td>1,000</td><td></td><td></td><td>10,111</td><td>1,007,101</td></t<>	Anotation of investment moome	001,402	00,044	2,240	01,010	1,000			10,111	1,007,101
Total additions    1.558.875    93.072    2.567    41.550    4.220    628    38    82.526    1.783.476      Deductions:    Benefit payments    1.443.756    63.637    1.856    27.462    1.221    626    37    —    1.538.595      Refunds of member contributions and interest    7.691    609    70    553    —    —    —    —    8.923    37.416 <t< td=""><td>Net investment income</td><td>873 404</td><td>60 553</td><td>2 2 2 8</td><td>30 827</td><td>1 683</td><td>_</td><td>_</td><td>79 193</td><td>1 047 888</td></t<>	Net investment income	873 404	60 553	2 2 2 8	30 827	1 683	_	_	79 193	1 047 888
Deductions:  Benefit payments  1,443,756  63,637  1,856  27,462  1,221  626  37  -  1,538,595    Refunds of member contributions and interest  7,691  609  70  553  -  -  -  -  8,923    Death benefits  -  -  -  -  -  -  -  8,923    Administrative expenses  7,142  1,377  290  820  235  2  1  716  10,583    Total deductions  1,458,589  65,623  2,216  28,835  1,456  628  38  38,132  1,595,517    Net increase in net position  100,286  27,449  351  12,715  2,764  -  -  44,394  187,959    Net position restricted for pensions and OPEB:  -  -  -  44,394  187,959    Beginning of year  13,517,186  914,138  34,189  466,657  23,653  6  2  1,189,462  16,145,293	Net investment income	070,404	00,000	2,220	30,021	1,005			13,135	1,047,000
Deductions:  Benefit payments  1,443,756  63,637  1,856  27,462  1,221  626  37  -  1,538,595    Refunds of member contributions and interest  7,691  609  70  553  -  -  -  -  8,923    Death benefits  -  -  -  -  -  -  -  8,923    Administrative expenses  7,142  1,377  290  820  235  2  1  716  10,583    Total deductions  1,458,589  65,623  2,216  28,835  1,456  628  38  38,132  1,595,517    Net increase in net position  100,286  27,449  351  12,715  2,764  -  -  44,394  187,959    Net position restricted for pensions and OPEB:  -  -  -  44,394  187,959    Beginning of year  13,517,186  914,138  34,189  466,657  23,653  6  2  1,189,462  16,145,293	Total additions	1 558 875	93 072	2 567	41 550	4 220	628	38	82 526	1 783 476
Benefit payments  1,443,756  63,637  1,856  27,462  1,221  626  37   1,538,595    Refunds of member contributions and interest  7,691  609  70  553      8,923    Death benefits        37,416  37,416    Administrative expenses  7,142  1,377  290  820  235  2  1  716  10,583    Total deductions  1,458,589  65,623  2,216  28,835  1,456  628  38  38,132  1,595,517    Net increase in net position  100,286  27,449  351  12,715  2,764     44,394  187,959    Net position restricted for pensions and OPEB:		1,000,070	33,072	2,007		4,220	020		02,320	1,703,470
Benefit payments  1,443,756  63,637  1,856  27,462  1,221  626  37   1,538,595    Refunds of member contributions and interest  7,691  609  70  553      8,923    Death benefits        37,416  37,416    Administrative expenses  7,142  1,377  290  820  235  2  1  716  10,583    Total deductions  1,458,589  65,623  2,216  28,835  1,456  628  38  38,132  1,595,517    Net increase in net position  100,286  27,449  351  12,715  2,764     44,394  187,959    Net position restricted for pensions and OPEB:										
Refunds of member contributions and interest  7,691  609  70  553      8,923    Death benefits        37,416  37,416  37,416  37,416  37,416  37,416  37,416  1,0583  1,0583  235  2  1  7.16  10,583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0583  1,0595,017  1,0583  1,0595,017  1,0583  1,0595,017										
Death benefits  -  -  -  -  -  -  -  -  37,416  37,416  37,416  37,416  37,416  37,416  10,583    Administrative expenses  1,458,589  65,623  2,216  28,835  1,456  628  38  38,132  1,595,517    Net increase in net position  100,286  27,449  351  12,715  2,764  -  -  44,394  187,959    Net position restricted for pensions and OPEB:  13,517,186  914,138  34,189  466,657  23,653  6  2  1,89,462  16,145,293    Beginning of year  13,517,186  914,138  34,189  466,657  23,653  6  2  1,89,462  16,145,293			,			1,221	626	37	—	
Administrative expenses  7,142  1,377  290  820  235  2  1  716  10,583    Total deductions  1,458,589  65,623  2,216  28,835  1,456  628  38  38,132  1,595,517    Net increase in net position  100,286  27,449  351  12,715  2,764  —  —  44,394  187,959    Net position restricted for pensions and OPEB:		7,691	609	70	553	—	_	—		,
Total deductions  1,458,589  65,623  2,216  28,835  1,456  628  38  38,132  1,595,517    Net increase in net position  100,286  27,449  351  12,715  2,764  —  —  44,394  187,959    Net position restricted for pensions and OPEB:	Death benefits	—		—		—		—		
Net increase in net position    100,286    27,449    351    12,715    2,764    —    —    44,394    187,959      Net position restricted for pensions and OPEB:	Administrative expenses	7,142	1,377	290	820	235	2	1	716	10,583
Net increase in net position    100,286    27,449    351    12,715    2,764    —    —    44,394    187,959      Net position restricted for pensions and OPEB:	Total deductions	1 458 580	65 623	2 216	28 835	1 456	628	28	28 122	1 505 517
Net position restricted for pensions and OPEB:    13,517,186    914,138    34,189    466,657    23,653    6    2    1,189,462    16,145,293	Total deductions	1,430,369	03,023	2,210	20,035	1,430	020		30,132	1,090,017
Net position restricted for pensions and OPEB:    13,517,186    914,138    34,189    466,657    23,653    6    2    1,189,462    16,145,293	Net increase in net position	100.286	27.449	351	12.715	2.764	_	_	44.394	187.959
Beginning of year  13,517,186  914,138  34,189  466,657  23,653  6  2  1,189,462  16,145,293			,		,	,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Net position restricted for pensions and OPEB:									
End of year \$ 13,617,472 941,587 34,540 479,372 26,417 6 2 1,233,856 16,333,252	Beginning of year	13,517,186	914,138	34,189	466,657	23,653	6	2	1,189,462	16,145,293
	End of year	\$ 13,617,472	941,587	34,540	479,372	26,417	6	2	1,233.856	16,333,252
			,	,. /0		,			,,	.,
See accompanying notes to financial statements.	See accompanying notes to financial statements.									

#### Statement of Net Position -State Employees' Assurance Department Active Members Fund

June 30, 2019 (In thousands)

Assets:	
Cash and cash equivalents	\$ 52
Receivables: Unremitted insurance premiums	72
Investments - at fair value: Equity share of pooled investment fund	305,795
Total assets	 305,919
Liabilities:	
Accounts payable and other	 42
Total liabilities	 42
Total net position	\$ 305,877
See accompanying notes to financial statements.	

#### Statement of Revenues, Expenses, and Changes in Net Position -State Employees' Assurance Department Active Members Fund

Year ended June 30, 2019 (In thousands)

Operating revenue:	
Insurance premiums	\$ 531
Total operating revenue	 531
Operating expenses:	
Death benefits	3,424
Administrative expenses	 80
Total operating expenses	 3,504
Total operating loss	 (2,973)
Nonoperating revenues (expenses):	
Allocation of investment income from pooled investment fund	19,708
Investment expenses	 (65)
Total nonoperating revenues	 19,643
Change in net position	16,670
Total net position:	
Beginning of year	 289,207
End of year	\$ 305,877
See accompanying notes to financial statements.	

#### Statement of Cash Flows -State Employees' Assurance Department Active Members Fund

Year ended June 30, 2019 (In thousands)

Cash flows from operating activities:	
Insurance premiums received	\$ 531
Death benefits paid	(3,424)
Administrative fees paid	 (80)
Net cash used in operating activities	 (2,973)
Cash flows from investing activities:	
Withdrawals from pooled investment fund	3,000
Investment expenses paid	 (65)
Net cash provided by investing activities	 2,935
Net increase in cash and cash equivalents	(38)
Cash and cash equivalents, beginning of year	 90
Cash and cash equivalents, end of year	\$ 52
Reconciliation of operating loss to net cash used in operating activities:	
Operating loss	\$ (2,973)
Changes in assets and liabilities	 
Net cash used in operating activities	\$ (2,973)
See accompanying notes to financial statements.	

#### **Notes to Financial Statements**

June 30, 2019

## **Financial Section**

#### (1) General

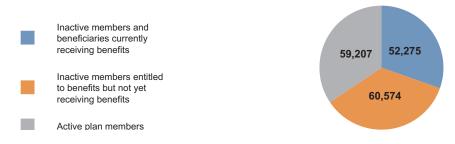
The accompanying basic financial statements of the Employees' Retirement System of Georgia, including all plans and funds administered by the Employees' Retirement System of Georgia (collectively, the System), comprises the Employees' Retirement System of Georgia (ERS), Public School Employees Retirement System (PSERS), Legislative Retirement System (LRS), Georgia Judicial Retirement System (GJRS), Georgia Military Pension Fund (GMPF), Superior Court Judges Retirement Fund (SCJRF), District Attorneys Retirement Fund (DARF), State Employees' Assurance Department Retired and Vested Inactive Members Trust Fund (SEAD-OPEB), Georgia Defined Contribution Plan (GDCP), State of Georgia Employees' Qualified Trust Deferred Compensation Plan (401 (k) Plan), State of Georgia Employees' Deferred Compensation Plan (457 Plan), Survivors Benefit Fund (SBF), and State Employees' Assurance Department Active Members Fund (SEAD-Active). All significant transactions among the various systems, departments, and funds have been eliminated. The Boards of Trustees, comprising active and retired members, ex officio state employees, and appointees by the Governor, are ultimately responsible for the administration of the System.

#### (2) Authorizing Legislation and Plan Descriptions

Each plan and fund, including benefit and contribution provisions, was established and can be amended by state law. The following summarizes authorizing legislation and the plan description of each retirement fund:

(a) ERS is a cost-sharing multiple-employer defined benefit pension plan established by the Georgia General Assembly during the 1949 Legislative Session for the purpose of providing retirement allowances for employees of the State of Georgia and its political subdivisions. ERS is directed by a Board of Trustees (ERS Board) and has the powers and privileges of a corporation. There were 420 employers and 1 nonemployer contributing entity participating in the plan during 2019. Total participation in ERS at June 30, 2019 was 172,056 as detailed in the following table:

#### ERS Membership as of June 30, 2019



#### Benefits

The ERS Plan supports three benefit tiers: Old Plan, New Plan, and Georgia State Employees' Pension and Savings Plan (GSEPS). Employees under the Old Plan started membership prior to July 1, 1982 and are subject to plan provisions in effect prior to July 1, 1982. Members hired on or after July 1, 1982 but prior to January 1, 2009 are New Plan members subject to modified plan provisions. Effective January 1, 2009, new state employees and rehired state employees who did not retain membership rights under the Old or New Plans are members of GSEPS. ERS members hired prior to January 1, 2009 also have the option to irrevocably change their membership to GSEPS.

Under the Old Plan, the New Plan, and GSEPS, a member may retire and receive normal retirement benefits after completion of 10 years of creditable service and attainment of age 60 or 30 years of creditable service, regardless of age. Additionally, there are some provisions allowing for early retirement after 25 years of creditable service for members under age 60.

Retirement benefits paid to members are based upon the monthly average of the member's highest 24 consecutive calendar months, multiplied by the number of years of creditable service, multiplied by the

#### **Notes to Financial Statements**

June 30, 2019

applicable benefit factor. Annually, postretirement cost-of-living adjustments may also be made to members' benefits, provided the members were hired prior to July 1, 2009. The normal retirement pension is payable monthly for life; however, options are available for distribution of the member's monthly pension, at reduced rates, to a designated beneficiary upon the member's death. Death and disability benefits are also available through ERS.

#### **Contributions and Vesting**

Member contributions under the Old Plan are 4% of annual compensation, up to \$4,200, plus 6% of annual compensation in excess of \$4,200. Under the Old Plan, the state pays member contributions in excess of 1.25% of annual compensation. These state contributions are included in the members' accounts for refund purposes and are used in the computation of the members' earnable compensation for the purpose of computing retirement benefits. Member contributions under the New Plan and GSEPS are 1.25% of annual compensation. The state is required to contribute at a specified percentage of active member payrolls, determined annually by actuarial valuation. The state contributions are not at any time refundable to the member or his/her beneficiary.

Pursuant to The Official Code of Georgia Annotated (O.C.G.A.) 47-2-292, the employer contributions for local tax commissioners and their employees who took office or were employed prior to July 1, 2012 are funded by the State of Georgia on behalf of the local county employer. Pursuant to O.C.G.A. 47-2-290, the employer contribution for certain State Court employees is funded by the state on behalf of the local county employer.

Employer and nonemployer contributions as a percentage of covered payroll required for fiscal year 2019 were based on the June 30, 2016 actuarial valuation for the Old Plan, New Plan, and GSEPS, as follows:

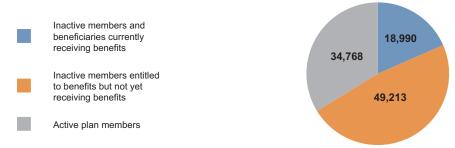
	Old Plan	New Plan	GSEPS
Employer and nonemployer:			
Normal	1.23 %	5.98 %	2.98 %
Employer paid for member	4.75 %	— %	— %
Accrued liability	18.68 %	18.68 %	18.68 %
Total	24.66 %	24.66 %	21.66 %

Members become vested after 10 years of membership service. Upon termination of employment, member contributions with accumulated interest are refundable upon request by the member. However, if an otherwise vested member terminates and withdraws his/her member contributions, the member forfeits all rights to retirement benefits.

June 30, 2019

(b) PSERS is a cost-sharing multiple-employer defined benefit pension plan established by the Georgia General Assembly in 1969 for the purpose of providing retirement allowances for public school employees who are not eligible for membership in the Teachers Retirement System of Georgia. The ERS Board, plus two additional trustees, administers PSERS (PSERS Board). There were 187 employers and 1 nonemployer contributing entity participating in the plan during 2019. Total participation in PSERS at June 30, 2019 was 102,971 as detailed in the following table:





#### **Benefits**

A member may retire and elect to receive normal monthly retirement benefits after completion of 10 years of creditable service and attainment of age 65. A member may choose to receive reduced benefits after age 60 and upon completion of 10 years of service.

Upon retirement, the member will receive a monthly benefit of \$15.25, multiplied by the number of years of creditable service. Death and disability benefits are also available through PSERS. Additionally, PSERS may make periodic cost-of-living adjustments to the monthly benefits.

#### **Contributions and Vesting**

Individuals who became members prior to July 1, 2012 contribute \$4 per month for nine months each fiscal year. Individuals who became members on or after July 1, 2012 contribute \$10 per month for nine months each fiscal year. The State of Georgia, although not the employer of PSERS members, is required by statute to make employer contributions actuarially determined and approved and certified by the PSERS Board.

Employer contributions required for the year ended June 30, 2019 were \$777.04 per active member and were based on the June 30, 2016 actuarial valuation.

Members become vested after 10 years of creditable service. Upon termination of employment, member contributions with accumulated interest are refundable upon request by the member. However, if an otherwise vested member terminates and withdraws his/her member contributions, the member forfeits all rights to retirement benefits.

#### **Notes to Financial Statements**

June 30, 2019

(c) LRS is a single-employer defined benefit pension plan established by the Georgia General Assembly from 1967–1971, and later reestablished in 1979, for the purpose of providing retirement allowances for all members of the Georgia General Assembly. LRS is administered by the ERS Board. There was one employer in the plan for 2019. Total participation in LRS at June 30, 2019 was 670 as detailed in the following table:

#### LRS Membership as of June 30, 2019



#### **Benefits**

A member's normal retirement is after eight years of creditable service and attainment of age 65, or eight years of membership service (four legislative terms) and attainment of age 62. A member may retire early and elect to receive a monthly retirement benefit after completion of eight years of membership service and attainment of age 60; however, the retirement benefit is reduced by 5% for each year the member is under age 62.

Upon retirement, the member will receive a monthly service retirement allowance of \$36, multiplied by the number of years of creditable service. Death benefits are also available through the plan.

#### **Contributions and Vesting**

Member contributions are 8.5% of annual salary. The state pays member contributions in excess of 4.75% of annual compensation. Employer contributions are actuarially determined and approved and certified by the ERS Board.

There were no employer contributions required for the year ended June 30, 2019 based on the June 30, 2016 actuarial valuation.

Members become vested after eight years of creditable service. Upon termination of employment, member contributions with accumulated interest are refundable upon request by the member.

However, if an otherwise vested member terminates and withdraws his/her member contributions, the member forfeits all rights to retirement benefits.

(d) GJRS is a cost-sharing multiple-employer defined benefit pension plan established by the Georgia General Assembly in 1998 for the purpose of providing retirement allowances for judges and solicitors generals of the state courts and juvenile court judges in Georgia, and their survivors and other beneficiaries, superior court judges of the State of Georgia, and district attorneys of the State of Georgia.

The GJRS was also created to serve the members and beneficiaries of the Trial Judges and Solicitors Retirement Fund, the Superior Court Judges Retirement System, and the District Attorneys Retirement System (collectively, the Predecessor Retirement Systems). As of June 30, 1998, any person who was an active, inactive, or retired member or beneficiary of the Predecessor Retirement Systems was transferred to GJRS in the same status effective July 1, 1998. All assets of the Predecessor Retirement Systems were transferred to GJRS as of July 1, 1998. The ERS Board and three additional trustees administer GJRS

#### **Notes to Financial Statements**

June 30, 2019

(GJRS Board). There were 93 employers and 1 nonemployer contributing entity participating in the plan during 2019. Total participation in GJRS at June 30, 2019 was 985 as detailed in the following table:

# GJRS Membership as of June 30, 2019

## Benefits

The normal retirement for GJRS is age 60, with 16 years of creditable service; however, a member may retire at age 60 with a minimum of 10 years of creditable service.

521

64

Annual retirement benefits paid to members are computed as 66<sup>2</sup>/<sub>3</sub>% of state-paid salary at retirement for district attorneys and superior court judges and 66<sup>2</sup>/<sub>3</sub>% of the average over 24 consecutive months for trial judges and solicitors, plus 1% for each year of credited service over 16 years, not to exceed 24 years. Early retirement benefits paid to members are computed as the pro rata portion of the normal retirement benefit, based on service not to exceed 16 years. Death, disability, and spousal benefits are also available.

#### **Contributions and Vesting**

Inactive members entitled

to benefits but not yet receiving benefits

Active plan members

Members are required to contribute 7.5% of their annual salary. Those who became members prior to July 1, 2012 must also contribute an additional 2.5% of their annual salary if spousal benefit is elected. Employer contributions are actuarially determined and approved and certified by the GJRS Board.

Pursuant to O.C.G.A. 47-23-81, the employer contributions for state court judges and solicitors are funded by the State of Georgia on behalf of the local county employers and pursuant to O.C.G.A. 47-23-82, the employer contributions for juvenile court judges are funded by the state on behalf of local county employers. Employer and nonemployer contributions required for fiscal year 2019 were based on the June 30, 2016 actuarial valuation, as follows:

Employer and nonemployer:	
Normal	13.67%
Accrued liability	(5.84)
Total	7.83%

Members become vested after 10 years of creditable service. Upon termination of employment, member contributions with accumulated interest are refundable upon request by the member. However, if an otherwise vested member terminates and withdraws his/her member contributions, the member forfeits all rights to retirement benefits.

(e) GMPF is a single-employer defined benefit pension plan established on July 1, 2002 by the Georgia General Assembly for the purpose of providing retirement allowances and other benefits for members of the Georgia National Guard (the National Guard). The ERS Board administers the GMPF.

June 30, 2019

#### Membership

As of June 30, 2019, GMPF had 1,148 retirees and beneficiaries currently receiving benefits. Active and inactive plan member information is maintained by one employer, the Georgia Department of Defense.

#### Benefits

A member becomes eligible for benefits upon attainment of age 60, with 20 or more years of creditable service (including at least 15 years of service as a member of the National Guard), having served at least 10 consecutive years as a member of the National Guard immediately prior to discharge, and having received an honorable discharge from the National Guard.

The retirement allowance is payable for life in the amount of \$50 per month, plus \$5 per month for each year of creditable service in excess of 20 years. The maximum benefit is \$100 per month.

#### **Contributions and Vesting**

Employer contributions are actuarially determined and approved and certified by the ERS Board. There are no member contributions required.

Employer contributions required for the year ended June 30, 2019 were \$183.20 per active member and were based on the June 30, 2016 actuarial valuation.

A member becomes vested after 20 years of creditable service (including at least 15 years of service as a member of the National Guard), having served at least 10 consecutive years as a member of the National Guard immediately prior to discharge, and having received an honorable discharge from the National Guard.

(f) SCJRF is a single-employer defined benefit pension plan established by the Georgia General Assembly in 1945 for the purpose of providing retirement benefits to the superior court judges of the State of Georgia. SCJRF is directed by its own Board of Trustees (SCJRF Board). The ERS Board and SCJRF Board entered into a contract for ERS to administer the plan effective July 1, 1995.

#### Membership

As of June 30, 2019, SCJRF had seven retirees and beneficiaries currently receiving benefits and no active members. No new members are allowed in SCJRF.

#### Benefits

The normal retirement for SCJRF is age 68, with 19 years of creditable service, with a benefit of two-thirds the salary paid to superior court judges. A member may also retire at age 65, with a minimum of 10 years of creditable service, with a benefit of one-half the salary paid to superior court judges. Death, disability, and spousal benefits are also available.

#### **Contributions and Vesting**

Employer contributions are not actuarially determined, but are provided on an as-needed basis to fund current benefits.

(g) DARF is a multiple-employer defined benefit pension plan established by the Georgia General Assembly in 1949 for the purpose of providing retirement benefits to the district attorneys of the state of Georgia. DARF is directed by its own Board of Trustees (DARF Board). The ERS Board and DARF Board entered into a contract for ERS to administer the plan effective July 1, 1995.

#### Membership

As of June 30, 2019, DARF had three retirees and beneficiaries currently receiving benefits and no active members. No new members are allowed into DARF.

June 30, 2019

#### Benefits

Persons appointed as district attorney emeritus shall receive an annual benefit of \$15,000, or one-half of the state salary received by such person as a district attorney for the calendar year immediately prior to the person's retirement, whichever is greater.

#### **Contributions and Vesting**

Employer contributions are not actuarially determined, but are provided on an as-needed basis to fund current benefits.

(h) SEAD-OPEB is a cost-sharing multiple-employer defined benefit other postemployment benefit plan created in 2007 by the Georgia General Assembly to amend Title 47 of the O.C.G.A., relating to retirement, so as to establish a fund for the provision of term life insurance to retired and vested inactive members of ERS, LRS, and GJRS. Effective July 1, 2009, no newly hired members of any Georgia public retirement system are eligible for term life insurance under SEAD. The SEAD-OPEB trust fund accumulates the premiums received from the aforementioned retirement systems, including interest earned on deposits and investments of such payments from retired and vested inactive members. There were 456 employers and 1 nonemployer contributing entity participating in the plan during 2019. Total participation in SEAD-OPEB at June 30, 2019 was 67,982 as detailed in the following table:



Employee contribution rates as a percentage of member's salaries were appropriated for the fiscal year ended June 30, 2019 as follows: ERS Old Plan – 0.45% and ERS New Plan, LRS, and GJRS – 0.23%. ERS Old Plan members were hired prior to July 1, 1982 and New Plan members were hired on or after July 1, 1982, but prior to January 1, 2009.

Georgia law provides that employee contributions to the plan shall be in an amount established by the Board of Trustees (SEAD Board) not to exceed one-half of 1% of the member's earnable compensation. There were no employer contributions required for the fiscal year ended June 30, 2019.

According to the policy terms covering the lives of members, insurance coverage is provided on a monthly, renewable term basis, and no return premiums or cash value are earned. The net position represents the excess accumulation of investment income and premiums over benefit payments and expenses, and is held as a reserve for payment of death benefits under existing policies.

The amount of insurance for a retiree with creditable service prior to April 1, 1964 is the full amount of insurance under SEAD-Active in effect on the date of retirement. The amount of insurance for a service retiree with no creditable service prior to April 1, 1964 is 70% of the amount of insurance under SEAD-Active at age 60 or at termination, if earlier. Life insurance proceeds are paid in a lump sum to the beneficiary upon death of the retiree.

#### **Notes to Financial Statements**

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Administrative costs for the plan are determined based on the plan's share of overhead costs to accumulate and invest funds, actuarial services, and to process benefit payments to beneficiaries. Administrative fees are financed from the assets of the plan.

(*i*) GDCP is a defined contribution plan established by the Georgia General Assembly in July 1992 for the purpose of providing retirement allowances for state employees who are not members of a public retirement or pension system and do not participate in Social Security. GDCP is administered by the ERS Board. There were 69 employers participating in the plan during 2019. There were 125,959 members as of June 30, 2019.

#### **Benefits**

A member may retire and elect to receive periodic payments after attainment of age 65. The payments will be based upon mortality tables and interest assumptions adopted by the ERS Board. If a terminated member has less than \$5,000 credited to his/her account, the ERS Board has the option of requiring a lump-sum distribution to the member. Upon the death of a member, a lump-sum distribution equaling the amount credited to his/her account will be paid to the member's designated beneficiary.

#### **Contributions and Vesting**

Members are required to contribute 7.5% of their annual salary and vest immediately in the plan upon contribution. There are no employer contributions. Earnings will be credited to each member's account as adopted by the ERS Board. Upon termination of employment, the amount of the member's account is refundable upon request by the member.

(j) The 401(k) Plan was established by the State of Georgia Employee Benefit Plan Council in accordance with Georgia Law 1985, as amended, O.C.G.A, Sections 45-18-50 through 45-18-58, and Section 401(k) of the Internal Revenue Code (IRC). On October 1, 1994, activity commenced when the 401(k) Plan became available to employees of the State of Georgia Community Service Boards (CSBs). On December 1, 1998, the 401(k) Plan became available to employees of the Georgia Lottery Corporation (GLC). On July 1, 2005, the Plan became available to employees of Fayette County Board of Education; on July 1, 2006, the Plan became available to employees of Education; on January 1, 2010, the Plan became available to employees of Education; and on July 1, 2017, the Plan became available to employees of the Baldwin County Board of Education.

Effective July 1, 1998, the State of Georgia Employee's Deferred Compensation Group Trust (the Master Trust) was formed for the State of Georgia Deferred Compensation Program to serve as the funding medium for the 401(k) Plan. At that time, the 401(k) Plan began operating on an employee elective deferral basis for all state employees working at least 1,000 hours in a 12-month period. All assets of the 401(k) Plan are held in trust for the exclusive benefit of the participants and their beneficiaries. The assets of the 401(k) Plan and the 457 Plan are commingled in the Master Trust with the respective trusts owning units of the Master Trust. Participant contributions are invested according to the participant's investment election. If the participant does not make an election, investments are automatically defaulted to a Lifecycle Fund based on the participant's date of birth.

Effective July 1, 2005 (HB275), ERS became the trustee of the 401(k) Plan. Alight Solutions and JPMorgan Chase hold, administer, and invest the assets of the Master Trust.

#### **Contributions and Vesting**

Participating CSBs, the GLC, and Walton and Henry County Boards of Education offer employer contributions, some matching, some automatic, and some a combination of both, to eligible employees at various rates (limited to a maximum of \$275,000 base salary in calendar year 2018 and \$280,000 in calendar year 2019). As of January 1, 2009, individual participants may defer up to 80% of eligible compensation, or up to limits prescribed by the IRC (whichever is less).

Effective January 1, 2009, in accordance with O.C.G.A. 47-2-350 through 47-2-360, newly hired state employees, as well as rehired state employees who did not maintain eligibility for the ERS Old Plan or New Plan, are members of GSEPS. From January 1, 2009 to June 30, 2014, the GSEPS tier included

#### **Notes to Financial Statements**

June 30, 2019

automatic enrollment in the 401(k) Plan at a contribution rate of 1% of salary. Effective July 1, 2014, in accordance with HB764, the employee contribution rate for automatic enrollment increased from 1% to 5%. The state matches 100% of the employee's initial 1% contribution and 50% of contributions above 1% and up to 5%. Therefore, the state will match 3% of salary when an employee contributes at least 5% to the 401(k) Plan. Employee contributions greater than 5% of salary do not receive any additional matching funds. Plan participants who are not employees of the GLC, a CSB, Walton and Henry County Boards of Education, or who are not GSEPS eligible do not receive any employer contributions in their 401(k) Plan.

All employer contributions are subject to a vesting schedule, which determines eligibility to receive all or a portion of the employer contribution balance at the time of any distribution from the account after separation from all state service. Vesting is determined based on the following schedule:

Less than 1 year	—%
1	20
2	40
3	60
4	80
5 or more years	100

For CSB/GLC participants whose services terminated prior to January 1, 2010 but after December 31, 2001, the following vesting schedule applies:

Less than 2 years	—%
2	20
3	40
4	60
5	80
6 or more years	100

For CSB/GLC participants whose services terminated prior to January 1, 2002, the following vesting schedule applies:

Less than 3 years	—%
3	20
4	40
5	60
6	80
7 or more years	100

Employee contributions and earnings thereon are 100% vested at all times. The 401(k) Plan also allows participants to roll over amounts from other qualified plans to their respective account in the 401(k) Plan on approval by the 401(k) plan administrator. Such rollovers are 100% vested at the time of transfer.

#### Participation

As of June 30, 2019, the 401(k) Plan had 69,662 participants with a balance. A total of 468 employers transmitted contributions to the plan during 2019.

#### Distributions

The participant may receive the value of his or her vested accounts upon attaining age 59.5, qualifying financial hardship, or 30 days after retirement or other termination of service (employer contribution balances are only eligible for distribution upon separation from service). Upon the death of a participant, his or her beneficiary shall be entitled to the vested value of his or her accounts. Employees who die while actively

#### **Notes to Financial Statements**

June 30, 2019

employed and eligible for 401(k) Plan employer matching contributions become fully vested in employer contributions upon death. Distributions are made in installments or in a lump sum.

(k) The 457 Plan was established by the State Personnel Board in accordance with Georgia Law 1974, page 198 as amended, O.C.G.A., Sections 45-18-30 through 45-18-36, and Section 457 of the IRC. The 457 Plan is available to employees of the State of Georgia and county health departments and permits such employees to defer a portion of their annual salary until future years. Employee contributions and earnings thereon are 100% vested at all times.

Effective July 1, 1998, the Master Trust was formed for the State of Georgia Deferred Compensation Program to serve as the funding medium for the 457 Plan. All assets of the 457 Plan are held in trust for the exclusive benefit of the participants and their beneficiaries. The assets of the 457 Plan and the 401(k) Plan are commingled in the Master Trust with the respective trusts owning units of the Master Trust. Participant contributions are invested according to the participant's investment election. If the participant does not make an election, investments are automatically defaulted to a Lifecycle Fund based on the participant's date of birth.

Effective July 1, 2005 (HB275), ERS became the trustee of the 457 Plan. Alight Solutions and JPMorgan Chase hold, administer, and invest the assets of the Master Trust.

#### Participation

As of June 30, 2019, the 457 Plan had 12,567 participants with a balance. A total of 298 employers transmitted contributions to the plan during 2019.

#### Distributions

The balance in the employee's account in the 457 Plan is not available to the employee until age 70.5, termination, retirement, death, or unforeseeable emergency, as defined in the 457 Plan. Upon the death of a participant, his or her beneficiary shall be entitled to the vested value of his or her accounts. Distributions are made in installments or in a lump sum.

- (I) SBF was established under O.C.G.A. 47-2-128(c)(3) within the ERS trust solely for maintaining group term life insurance coverage for members of the plan. All assets of SBF are therefore limited to the payment of benefits and expenses for such coverage and cannot be used to pay pension benefits of ERS. SBF is shown on the financial statements separately as an agency fund to reflect ERS's custodial responsibility and to account for assets held for distribution to SEAD-Active and SEAD-OPEB. SBF may only be used to pay benefits or expenses of SEAD-OPEB or SEAD-Active with authorization by the ERS Board. An actuarial valuation is not prepared, as there are no funding requirements.
- (m) SEAD-Active is a cost-sharing multiple-employer life insurance plan created in 2007 by the Georgia General Assembly to amend Title 47 of the O.C.G.A., relating to retirement, so as to establish a fund for the provision of term life insurance to active members of ERS, LRS, and GJRS. Effective July 1, 2009, no newly hired members of any Georgia public retirement system are eligible for term life insurance under SEAD. The SEAD-Active fund accumulates the premiums received from the aforementioned retirement systems, including interest earned on deposits and investments of such payments from active members. There were 456 employers and 1 nonemployer contributing entity participating in the plan during 2019. As of June 30, 2019, there were 23,368 active plan members in SEAD-Active.

Employee contribution rates as a percentage of member's salaries were appropriated for the fiscal year ended June 30, 2019 as follows: ERS Old Plan – 0.05% and ERS New Plan, LRS, and GJRS – 0.02%. ERS Old Plan members were hired prior to July 1, 1982 and new plan members were hired on or after July 1, 1982, but prior to January 1, 2009.

#### **Notes to Financial Statements**

June 30, 2019

Georgia law provides that employee contributions to the plan shall be in an amount established by the SEAD Board not to exceed one-half of 1% of the member's earnable compensation. There were no employer contributions required for the fiscal year ended June 30, 2019.

According to the policy terms covering the lives of members, insurance coverage is provided on a monthly, renewable term basis, and no return premiums or cash value are earned. The net position represents the excess accumulation of investment income and premiums over benefit payments and expenses, and is held as a reserve for payment of death benefits under existing policies.

The amount of insurance coverage is equal to 18 times monthly earnable compensation frozen at age 60. For members with no creditable service prior to April 1, 1964, the amount decreases from age 60 by a half of 1% per month until age 65, at which point the member will be covered for 70% of the age 60 coverage. Life insurance proceeds are paid in lump sum to the beneficiary upon death of the member.

Administrative costs for the plan are determined based on the plan's share of overhead costs to accumulate and invest funds, actuarial services, and to process benefit payments to beneficiaries. Administrative fees are financed from the assets of the plan.

#### (3) Significant Accounting Policies and System Asset Matters

#### (a) Basis of Accounting

The System's financial statements are prepared in accordance with U.S. generally accepted accounting principles as applicable to governmental organizations. The System follows the reporting requirements established by GASB.

Fiduciary funds include the defined benefit plans and defined contribution plans, which are accounted for on the flow of economic resources measurement focus and the accrual basis of accounting. Contributions to the defined benefit pension plans and OPEB plan are recognized in the period in which the contributions are due. Benefits and refunds are recognized when due and payable in accordance with the terms of each plan. Contributions to the deferred compensation plans are recognized as received. The SBF is an agency fund and is custodial in nature and does not measure the results of operations. Assets and liabilities are recorded using the accrual basis of accounting. The proprietary fund comprises the SEAD-Active plan. This fund is accounted for on the flow of economic resources measurement focus and uses the accrual basis of accounting. The principal operating revenues are derived from insurance premiums. Operating expenses include the cost of claims and related expenses.

June 30, 2019

#### (b) Reporting Entity

The System is a component unit of the State of Georgia; however, it is accountable for its own fiscal matters and presentation of its separate financial statements. The System has considered potential component units under GASB Statements No. 80, *Blending Requirements for Certain Component Units*, No. 61, *The Financial Reporting Entity's Omnibus – An Amendment of GASB Statement No. 14 and No. 34*, and No. 39, *Determining Whether Certain Organizations are Component Units*, and determined there were no component units of the System.

**Financial Section** 

#### (c) Cash and Cash Equivalents

Cash and cash equivalents, reported at cost, include cash on deposit at banks and cash on deposit with the investment custodian.

#### (d) Investments

Investments are reported at fair value, and in some cases, net asset value (NAV) as a practical expedient to fair value. Equity securities traded on a national or international exchange are valued at the last reported sales price. Investments in private investment companies are valued utilizing the NAVs provided by the underlying private investment companies as a practical expedient. The Pooled Investment Fund (the Fund) applies the practical expedient to its investments in private investment companies on an investment by investment basis, consistent with the Fund's entire position in a particular investment, unless it is probable that the Fund will sell a portion of an investment at an amount different from the NAV of the investment. Private equity fair value is measured using the valuation of the underlying companies as reported by the general partner. These investments, in the form of limited partnerships, reflect values and related performance on a quarter-lag basis due to the nature of the investments and the time it takes to value them. The estimated fair value of investments without readily determinable market values could differ significantly if a ready market for these assets existed. Fixed income securities are valued based primarily on quoted market prices provided by independent pricing sources. Global foreign exchange holdings are translated using a third-party vendor. Investment income is recognized as earned by the System. There are no investments in, loans to, or leases with parties related to the System.

The System utilizes various investment instruments. Investment securities, in general, are exposed to various risks, such as interest rate, credit, foreign currency, and overall market volatility. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the financial statements.

The System's policy with regard to the allocation of invested assets is established on a cost basis in compliance with Georgia statute. Plan assets are managed on a total return basis with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the pension and OPEB plans. The following was the System's adopted asset allocation policy as of June 30, 2019:

Asset class	Target allocation
Fixed income	25%-45%
Equities	55%-75%
Alternative investments	0%-5%
Total	100%

Approximately 20.8% of the investments held in trust for pension and OPEB benefits are invested in debt securities of the U.S. government. The System has no investments in any one organization, other than those issued by the U.S. government and its instrumentalities, that represent 5% or more of the System's net position restricted for pensions and OPEB.

#### **Notes to Financial Statements**

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For the year ended June 30, 2019, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was (1.8)%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

#### (e) Capital Assets

Capital assets, including software development costs, are stated at cost less accumulated depreciation and reside in ERS. The capitalization thresholds are \$100,000 for buildings and building improvements and \$5,000 for equipment and vehicles. Depreciation on capital assets is computed using the straight-line method over estimated useful lives of 3 to 40 years. Depreciation expense is included in administrative expenses. Maintenance and repairs are charged to administrative expenses when incurred. When assets are retired or otherwise disposed of, the costs and related accumulated depreciation are removed from the accounts, and any resulting gain or loss is reflected in the combining statement of changes in fiduciary net position in the period of disposal.

#### (f) Use of Estimates

The preparation of financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of net position and changes therein. Actual results could differ from those estimates.

#### (g) New Accounting Pronouncements

Pronouncements effective for the 2019 financial statements:

In November 2016, the GASB issued Statement No. 83, *Certain Asset Retirement Obligations*, effective for fiscal years beginning after June 15, 2018. This Statement addresses accounting and financial reporting for certain asset retirement obligations (AROs). An ARO is a legally enforceable liability associated with the retirement of a tangible capital asset. There are no applicable reporting requirements for the system related to this statement.

In April 2018, the GASB issued Statement No. 88, *Certain Disclosures Related to Debt*, including Direct Borrowing and Direct Placements effective for fiscal years beginning after June 15, 2018. The primary objective of this statement is to improve the information that is disclosed in notes to government financial statements related to debt, including direct borrowings and direct placements. It also clarifies which liabilities governments should include when disclosing information related to debt. There are no applicable reporting requirements for the system related to this statement.

#### Pronouncements issued, but not yet effective:

In January 2017, the GASB issued Statement No. 84, *Fiduciary Activities*, effective for fiscal years beginning after December 15, 2018. The objective of this Statement is to improve guidance regarding the identification of fiduciary activities for accounting and financial reporting purposes and how those activities should be reported. The System is in the process of evaluating the impact of this pronouncement on its financial statements.

In June 2017, the GASB issued Statement No. 87, *Leases*, effective for fiscal years beginning after December 15, 2019. The objective of this Statement is to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments. The System is in the process of evaluating the impact of this pronouncement on its financial statements.

In June 2018, the GASB issued Statement No. 89, *Accounting for Interest Costs Incurred before the End of a Construction Period*, effective for fiscal years beginning after December 15, 2019, which establishes guidance designed to enhance the relevance and comparability of information about capital assets and the cost of borrowing for a reporting period. It also simplifies accounting for interest costs incurred before the

#### **Notes to Financial Statements**

June 30, 2019

end of a construction period. The System does not anticipate this pronouncement will impact its financial statements and related reporting.

In August 2018, the GASB issued Statement No. 90, *Majority Equity Interests-an amendment of GASB Statements No. 14 and No. 61* for fiscal years beginning after December 15, 2018. The objectives of this Statement are to improve the consistency and comparability of reporting a government's majority equity interest in a legally separate organization and to improve the relevance of financial statement information for certain component units. The System does not anticipate this statement will impact its financial statements and related reporting.

In May 2019, the GASB issued Statement No. 91, *Conduit Debt Obligations* effective for fiscal years beginning after December 15, 2020. The objectives of this Statement are to provide a single method of reporting conduit debt obligations by issuers and eliminate diversity in practice associated with commitments extended by issuers, arrangements associated with conduit debt obligations, and related note disclosures. The System does not anticipate this statement will impact its financial statements and related reporting.

#### (4) Investment Program

The System maintains sufficient cash to meet its immediate liquidity needs. Cash not immediately needed is invested as directed by the ERS Board. All investments are held by agent custodial banks in the name of the System. State statutes and the System's investment policy authorize the System to invest in a variety of short-term and long-term securities as follows:

#### (a) Cash and Cash Equivalents

Custodial credit risk is the risk that in the event a depository institution or counterparty fails, the System would not be able to recover the value of its deposits or investments. The System does not have a formal policy relating to custodial credit risk. The carrying amount of the System's deposits totaled \$439.0 million at June 30, 2019, with actual bank balances of \$341.9 million. The System's bank balances of \$313.6 million are fully insured through the Federal Deposit Insurance Corporation, an independent agency of the U.S. government. The remaining bank deposits of \$28.3 million are uninsured and uncollateralized. The System's noncash investments are held in the System's name and are not exposed to custodial credit risk.

Short term securities authorized but not currently used are as follows:

- Repurchase and reverse repurchase agreements, whereby the System and a broker exchange cash for direct obligations of the U.S. government or obligations unconditionally guaranteed by agencies of the U.S. government or U.S. corporations. The System or broker promises to repay the cash received, plus interest, at a specific date in the future in exchange for the same securities.
- U.S. Treasury obligations
- Commercial paper, with a maturity of 180 days or less. Commercial paper is an unsecured promissory note issued primarily by corporations for a specific amount and maturing on a specific day. The System considers for investment only commercial paper of the highest quality, rated P-I and/or A-I by national credit rating agencies.
- Master notes, an overnight security administered by a custodian bank and an obligation of a corporation whose commercial paper is rated P-I and/or A-I by national credit rating agencies.

Investments in commercial paper or master notes are limited to no more than \$500 million in any one name.

June 30, 2019

#### (b) Investments

Fixed income investments, managed by the Division of Investment Services (the Division), are authorized in the following instruments:

- U.S. and foreign government obligations. At June 30, 2019, the System held U.S. Treasury bonds of approximately \$3.8 billion.
- U.S. and foreign corporate obligations. At June 30, 2019, the System held U.S. corporate bonds of approximately \$1.1 billion and international corporate bonds of approximately \$95.1 million.
- Obligations unconditionally guaranteed by agencies of the U.S. government. At June 30, 2019, the System did not hold agency bonds.
- Private placements are authorized under the same general restrictions applicable to corporate bonds. At June 30, 2019, the System did not hold private placements.

Mortgage investments are authorized to the extent that they are secured by first mortgages on improved real property located in the state of Georgia.

Equity securities are also authorized (in statutes) for investment as a complement to the System's fixed income portfolio and as a long-term inflation hedge. By statute, no more than 75% of the total invested assets on a historical cost basis may be placed in equities. Equity holdings in any one corporation may not exceed 5% of the outstanding equity of the issuing corporation. The equity portfolio is managed by the Division, in conjunction with independent advisers. Buy/sell decisions are based on securities meeting rating criteria established by the ERS Board, in-house research considering such matters as yield, growth, and sales statistics, and analysis of independent market research. Equity trades are approved and executed by the Division's staff. Common stocks eligible for investment are approved by the Investment Committee of the ERS Board before being placed on an approved list.

Equity investments are authorized in the following instruments:

- Domestic equities are those securities considered by O.C.G.A. to be domiciled in the United States. At June 30, 2019, the System held domestic equities of approximately \$8.3 billion, excluding the 401(k) and 457 plans.
- International equities, including American Depository Receipts (ADR), are not considered by the O.C.G.A. to be domiciled in the United States. At June 30, 2019, the System held international equities of approximately \$1.2 billion and ADRs of approximately \$1.6 billion, excluding the 401(k) and 457 plans.
- Alternative investments are authorized (in statutes) to provide portfolio diversification and to enhance the risk-adjusted rate of return for the retirement fund that benefits the members of the System. By statute, the allocation to alternative investments shall not, in the aggregate, exceed 5% of the System's plan assets at any time. Further, in any calendar year, new commitments to alternative investments shall not, in the aggregate exceed 1.0% of the System's plan assets until the first occurrence that 4.5% of the assets have been invested, at which time there shall be no limit on the percentage of commitments that may be made in any calendar year, subject to compliance with other provisions of the statute. At June 30, 2019, the System held private equity investments of approximately \$335.3 million.

The Master Trust invests in various mutual funds, common collective trust funds, and separate accounts, as selected by participants. Each participant is allowed to select and invest contributions into investment options that own one or more commingled funds, as authorized by the ERS Board. Participants may also contribute to a self-directed brokerage account that offers investments in various mutual funds and equities. At June 30, 2019, the deferred compensation plans held commingled funds of approximately \$1.8 billion,

#### **Notes to Financial Statements**

June 30, 2019

mutual funds of approximately \$8.1 million, domestic equities of approximately \$16.0 million, and international equities of approximately \$1.8 million.

Substantially all of the investments of ERS, PSERS, LRS, GJRS, GMPF, SEAD-OPEB, SBF, and SEAD-Active are pooled into one common investment fund. Units in the pooled common investment fund are allocated to the respective plans based upon the cost of assets contributed, and additional units are allocated to the participating plans based on the market value of the pooled common investment fund at the date of contribution. Net income of the pooled common investment fund is allocated monthly to the participating plans, based upon the number of units outstanding during the month.

The units and fair value of each plan's equity in the pooled common investment fund at June 30, 2019, were as follows (dollars in thousands):

	Fair value	Units
Employees' Retirement System	\$ 13,567,302	2,566,020
Public School Employees Retirement System	942,101	178,182
Legislative Retirement System	34,559	6,536
Georgia Judicial Retirement System	478,823	90,561
Georgia Military Pension Fund	26,404	4,994
State Employees' Assurance Department - OPEB	1,233,750	233,342
Survivors Benefit Fund	 158,658	30,007
Total defined benefit plans	16,441,597	3,109,642
State Employees' Assurance Department - Active	 305,795	57,836
Total in pooled investment funds	\$ 16,747,392	3,167,478

*Fair Value Measurements.* The System categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the inputs used in valuation and gives the highest priority to unadjusted quoted prices in active markets and requires that observable inputs be used in the valuations when available. The disclosure of fair value estimates in the hierarchy is based on whether the significant inputs into the valuations are observable. In determining the level of the hierarchy in which the estimate is disclosed, the highest level, Level 1, is given to unadjusted quoted prices in active markets and the lowest level, Level 3, to unobservable inputs.

The three levels of the fair value hierarchy are as follows:

Level 1 – Valuations based on unadjusted quoted prices for identical instruments in active markets that the System has the ability to access.

Level 2 – Valuations based on quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, and model-derived valuations in which all significant inputs are observable.

Level 3 – Valuations based on inputs that are unobservable and significant to the overall fair value measurement.

The System also has investments held through limited partnerships for which fair value is estimated using the NAV reported by the general partner as a practical expedient to fair value. Such investments have not been categorized within the fair value hierarchy.

### **Notes to Financial Statements**

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In instances where inputs used to measure fair value fall into different levels in the fair value hierarchy, fair value measurements in their entirety are categorized based on the lowest level input that is significant to the valuation. The System's assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each investment. The table below shows the fair value leveling of the System's investments (in thousands):

	act	ioted prices in tive markets or identical assets	Significant other observable inputs	Significant unobservable inputs	
Investments by fair value level		(Level 1)	(Level 2)	(Level 3)	Total
Equities:					
Domestic	\$	8,350,863	_	_	8,350,863
International		2,760,042	26,527		2,786,569
Obligations:					
Domestic:					
U.S. treasuries		3,784,262	—	—	3,784,262
Corporate bonds		_	1,104,643	_	1,104,643
International:					
Corporate bonds		—	95,134	—	95,134
Mutual funds		8,114	_	_	8,114
Commingled funds		79,080	1,682,123		1,761,203
Total investments					
by fair value level	\$	14,982,361	2,908,427		17,890,788
Investments measured at NAV*					
Private equity funds					335,306
Total investments					\$ 18,226,094

\*Certain investments that are measured at fair value using the NAV per share (or its equivalent) as a practical expedient have not been categorized in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented in the combining statement of fiduciary net position.

Equity securities classified in Level 1 are valued using prices quoted in active markets for those securities. Equity securities in Level 2 are valued using prices quoted for similar instruments in active markets. Equity securities classified in Level 3, if any, are valued using third-party valuations not currently observable in the market.

Debt securities classified in Level 1 are valued using prices quoted in active markets. Debt securities classified in Level 2 are valued using either a bid evaluation or a matrix pricing technique. Bid evaluations may include market quotations, yields, maturities, call features, and ratings. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices. These securities have nonproprietary information that was readily available to market participants, from multiple independent sources, which are known to be actively involved in the market.

Mutual funds and commingled funds classified in Level 1 are valued using prices quoted in active markets for those investment types. Commingled funds classified in Level 2 are valued using observable underlying inputs that are market corroborated.

Unfunded commitments, redemption frequency, and redemption notice period relative to the System's alternative investments for which the System utilized NAV or its equivalent relative to the determination of fair value at June 30, 2019, are as follows (in thousands):

	Investments measured at NAV	Unfunded commitments	Redemption frequency (if currently eligible)	Redemption notice period
Private equity funds	\$335,306	270,957	Not Eligible	N/A

Investments in privately held limited partnerships are valued using the NAV provided by the general partner as of March 31 of each fiscal year, adjusted by the System for cash flows through June 30. The quarterly values of the partnership investments provided from the general partner are reviewed by the System to determine if any adjustments are necessary. The types of partnership strategies held include growth equity, leveraged buyouts, and mezzanine debt. Two of the 21 partnerships held are secondary investments and are in or nearing the wind up phase of the fund. The remaining investments typically have an approximate life of 8–10 years. These investments are considered illiquid since the nature of these private investments prohibits redemption with the fund; instead, distributions are received from the general partner through liquidation of the underlying assets of the fund. The System currently has no plans to sell any of the investments prior to their liquidation resulting in these assets being carried at the NAV estimated by the general partner and adjusted for second quarter cash flows by the System.

*Credit Risk:* Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations to the System. O.C.G.A. 47-20-84 limits investments to investment grade securities. It is the System's investment policy to require that the bond portfolio be of high quality and chosen with respect to maturity ranges, coupon levels, refunding characteristics, and marketability. The System's policy is to require that new purchases of bonds be restricted to high-grade bonds rated no lower than "A" by any nationally recognized statistical rating organization. If a bond is subsequently downgraded to a rating below "A," it is placed on a watch list. The System holds two bonds that were downgraded to a rating below "A." Obligations of the U.S. government or obligations explicitly guaranteed by the U.S. government are not considered to have credit risk and do not require disclosure of credit quality. The quality ratings of investments in fixed income securities as described by Standard & Poor's and by Moody's Investors Service, which are nationally recognized statistical rating organizations, at June 30, 2019, are shown in the chart on the following page (in thousands).

#### **Notes to Financial Statements**

June 30, 2019

Quality Ratings of Fixed Income Investments Held at June 30, 2019					
Investment type	Standard and Poor's/ Moody's quality rating		ne 30, 2019 fair value		
Domestic obligations:					
U.S. treasuries		\$	3,784,262		
Corporates	AAA/Aaa		170,770		
	AA/Aaa		96,266		
	AA/Aa		58,207		
	AA/A		95,599		
	A/A		448,956		
	BBB/Baa		234,845		
Total domestic corporates			1,104,643		
International obligations:					
Corporates	A/A		95,134		
Total international corporates			95,134		
Total fixed income investments		\$	4,984,039		

Mutual funds, commingled funds, and various equities of the deferred compensation plans are not considered to have credit risk and do not require disclosure of credit risk rating.

*Concentration of Credit Risk:* Concentration of credit risk is the risk of loss that may be attributed to the magnitude of a government's investment in a single issue. At June 30, 2019, the System did not have debt or equity investments in any one organization, other than those issued or guaranteed by the U.S. government or its agencies, which represented greater than 5% of total investments.

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 System has no formal interest rate risk policy, active management of the bond portfolio incorporates interest rate risk to generate improved returns. This risk is managed within the portfolio using the effective duration method. This method is widely used in the management of fixed income portfolios and quantifies to a much greater degree the sensitivity to interest rate changes when analyzing a bond portfolio with call options, prepayment provisions, and any other cash flows. Effective duration makes assumptions regarding the most likely timing and amounts of variable cash flows and is best utilized to gauge the effect of a change in interest rates on the fair value of a portfolio. It is believed that the reporting of effective duration found in the table on the following page quantifies to the fullest extent possible the interest rate risk of the System's fixed income assets (in thousands).

June 30, 2019

Effective Duration of Fixed Income Assets									
Fixed income type	-	Fair value ne 30, 2019	Percent of all fixed income assets	Effective duration (years)					
Domestic obligations:									
U.S. treasuries	\$	3,784,262	75.9%	5.7					
Corporates		1,104,643	22.2	3.9					
International obligations:									
Corporates		95,134	1.9	0.5					
Total	\$	4,984,039	100%	5.2					

*Foreign Currency Risk:* Foreign currency risk is the risk that changes in exchange rates will adversely impact the fair value of an investment. The System's currency risk exposures, or exchange rate risks, primarily reside within the System's international equity investment holdings. The System's asset allocation and investment policies allow for active and passive investments in international securities. The System's Board-adopted foreign exchange risk management policy is to minimize risk and protect the investments from negative impact by hedging foreign currency exposures with foreign exchange instruments when market conditions and circumstances are deemed appropriate. Foreign exchange instruments are used to protect the value of noncash investments from currency movements. The System's foreign exchange risk management policy does not quantify limitations on foreign currency-denominated investments. As of June 30, 2019, the System's exposure to foreign currency risk in U.S. Dollars, excluding the 401(k) and 457 plans, is highlighted in the table on the following page (in thousands).

#### **Notes to Financial Statements**

June 30, 2019

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International Investment Securities at Fair Value as of J	lune 30, 2019		

**Financial Section** 

Currency	n/cash valents	Equities	Fixed income	Total
Australian dollar	\$ _	42,445	_	42,44
Brazilian real	_	26,253	_	26,25
British pound	_	103,475	_	103,47
Canadian dollar	_	34,070	_	34,07
Chilean peso	_	3,312	_	3,31
Chinese renminbi	19	8,000	_	8,01
Colombian peso	_	2,037	_	2,03
Czech krone	_	1,982	_	1,98
Danish krone	_	18,818	_	18,81
Euro	_	287,497	_	287,49
Hong Kong dollar	_	95,446	_	95,44
Indian rupee	47	69,506	_	69,55
Indonesian rupiah	_	6,098	_	6,09
Israeli shekel	—	2,288	_	2,28
Japanese yen	_	194,315	_	194,31
Malaysian ringgit	_	14,066	_	14,06
Mexican peso	—	9,801	_	9,80
New Taiwan dollar	_	35,607	_	35,60
Norwegian krone	_	2,074	_	2,07
Philippine peso	_	4,619	—	4,61
Polish zloty	_	2,997	_	2,99
Qatari riyal	_	3,771	_	3,77
Singapore dollar	_	22,411	—	22,41
South African rand	_	32,631	—	32,63
South Korean won	_	62,573	—	62,57
Swedish krona	—	31,653	—	31,65
Swiss franc	—	31,739	—	31,73
Thailand baht	—	26,527	—	26,52
UAE Dirham	 	4,006		4,00
Total holdings subject to foreign currency risk	66	1,180,017	—	1,180,08
Investment securities payable in U.S. dollars	 	1,604,785	95,134	1,699,91
Total international investment securities - at fair value	\$ 66	2,784,802	95,134	2,880,00

### (5) Securities Lending Program

State statutes and ERS Board policies permit the System to lend its securities to broker/dealers with a simultaneous agreement to return the collateral for the same securities in the future. The System is presently involved in a securities lending program with major brokerage firms. The System lends equity and fixed income

#### **Notes to Financial Statements**

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securities for varying terms and receives a fee based on the loaned securities' value. The System reports the gross loan fee income earned as investment income on the combining statement of changes in fiduciary net position. During a loan, the System continues to receive dividends and interest as the owner of the loaned securities. The brokerage firms pledge collateral securities consisting of U.S. government and agency securities, mortgage-backed securities issued by a U.S. government agency, corporate bonds, and equities. The collateral value must be equal to at least 102% to 109% of the loaned securities' value, depending on the type of collateral security.

Securities loaned totaled approximately \$4.8 billion at fair value at June 30, 2019. The collateral value was equal to 104.4% of the loaned securities' value at June 30, 2019. The System's lending collateral was held in the System's name by the tri-party custodian.

Loaned securities are included in the accompanying combining statement of fiduciary net position since the System maintains ownership. The related collateral securities are not recorded as assets on the System's combining statement of fiduciary net position, and a corresponding liability is not recorded, since the System is deemed not to have the ability to pledge or trade the collateral securities. In accordance with the criteria set forth in GASB Statement No. 28, *Accounting and Financial Reporting for Securities Lending Transactions,* the System is deemed not to have the ability to pledge or sell the collateral securities, since the System's lending contracts do not address whether the lender can pledge or sell the collateral securities without a borrower default, the System has not previously demonstrated that ability, and there are no indications of the System's ability to pledge or sell the collateral securities.

#### (6) Capital Assets

	alance at e 30, 2018	Additions	Disposals	Balance at June 30, 2019
Capital assets:				
Land	\$ 4,350	_	—	4,350
Building	2,800	_	_	2,800
Equipment	3,407	104	_	3,511
Vehicles	_	_	_	_
Computer software	 14,345			14,345
	 24,902	104		25,006
Accumulated depreciation for:				
Building	(980)	(70)	_	(1,050)
Equipment	(2,839)	(220)	_	(3,059)
Vehicles	—	_	_	_
Computer software	 (14,345)			(14,345)
	 (18,164)	(290)		(18,454)
Capital assets, net	\$ 6,738	(186)		6,552

The following is a summary of capital assets and depreciation information as of and for the year ended June 30, 2019 (dollars in thousands):

#### **Notes to Financial Statements**

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#### (7) Commitments

As of June 30, 2019, the System had committed to fund certain private equity partnerships for a total capital commitment of approximately \$577.8 million. Of this amount, approximately \$271.0 million remained unfunded and is not recorded on the System's combining statement of fiduciary net position.

#### (8) Net Pension Liability of Employers and Nonemployers - ERS

The components of the net pension liability of the participating employers and nonemployers at June 30, 2019 were as follows (dollars in thousands):

Total pension liability	\$ 17,744,003
Plan fiduciary net position	 13,617,472
Employers' and nonemployers' net pension liability	\$ 4,126,531
Plan fiduciary net position as a percentage of the total pension liability	76.74%

Actuarial assumptions: The total pension liability was determined by an actuarial valuation as of June 30, 2018, using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.75%
Salary increases	3.25 - 7.00%, including inflation
Investment rate of return	7.30%, net of pension plan investment expense, including inflation

Postretirement mortality rates were based on the RP-2000 Combined Mortality Table with future mortality improvement projected to 2025 with the Society of Actuaries' projection scale BB and set forward two years for both males and females for service retirements and dependent beneficiaries. The RP-2000 Disabled Mortality Table with future mortality improvement projected to 2025 with Society of Actuaries' projection scale BB and set back seven years for males and set forward three years for females was used for death after disability retirement. Rates of mortality in active service were based on the RP-2000 Employee Mortality Table projected to 2025 with projection scale BB. There is a margin for future mortality improvement in the tables used by the plan.

The actuarial assumptions used in the June 30, 2018 valuation were based on the results of an actuarial experience study for the period July 1, 2009 – June 30, 2014, with the exception of the investment rate of return. Subsequent to the June 30, 2017 measurement date, the ERS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the ERS Board's new funding policy, the assumed investment rate of return 7.40% to 7.30% as of the June 30, 2018 measurement date.

The long-term expected rate of return on pension plan investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the table on the following page:

### **Notes to Financial Statements**

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Asset class	Target allocation	Long-term expected real rate of return*
Fixed income	30.00%	(0.10)%
Domestic large equities	46.20	8.90
Domestic small equities	1.30	13.20
International developed market equities	12.40	8.90
International emerging market equities	5.10	10.90
Alternatives	5.00	12.00
Total	100.00%	

\* Rates shown are net of inflation

*Discount rate:* The discount rate used to measure the total pension liability was 7.30%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the net pension liability to changes in the discount rate: The following presents the net pension liability, calculated using the discount rate of 7.30%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.30%) or 1-percentage-point higher (8.30%) than the current rate (dollars in thousands):

	1% Decrease (6.30%)	Current discount rate (7.30%)	1% Increase (8.30%)
Employers' and nonemployers' net pension liability	\$5,864,180	4,126,531	2,645,214

Actuarial valuation date: June 30, 2018 is the actuarial valuation date upon which the total pension liability is based. An expected total pension liability is determined as of June 30, 2019 using standard roll-forward techniques. The roll-forward calculation adds the annual normal cost (also called service cost), subtracts the actual benefit payments and refunds for the plan year, and then applies the expected investment rate of return for the year.

### (9) Net Pension Liability of Employers and Nonemployers – PSERS

The components of the net pension liability of the participating employers and nonemployers at June 30, 2019 were as follows (dollars in thousands):

Total pension liability	\$ 1,107,495
Plan fiduciary net position	 941,587
Employers' and nonemployers' net pension liability	\$ 165,908
Plan fiduciary net position as a percentage of the total pension liability	85.02%

### **Notes to Financial Statements**

June 30, 2019

*Actuarial assumptions:* The total pension liability was determined by an actuarial valuation as of June 30, 2018, using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.75%
Salary increases	n/a
Investment rate of return	7.30%, net of pension plan investment expense, including inflation
Cost-of-living adjustment	1.5% semi-annually

Postretirement mortality rates were based on the RP-2000 Blue-Collar Mortality Table projected to 2025 with projection scale BB (set forward three years for males and two years for females) for the period after service retirement and for dependent beneficiaries. The RP-2000 Disabled Mortality projected to 2025 with projection scale BB (set forward five years for both males and females) was used for death after disability retirement. Rates of mortality in active service were based on the RP-2000 Employee Mortality Table projected to 2025 with projection scale BB. There is a margin for future mortality improvement in the tables used by the plan.

The actuarial assumptions used in the June 30, 2018 valuation were based on the results of an actuarial experience study for the period July 1, 2009 – June 30, 2014, with the exception of the investment rate of return. Subsequent to the June 30, 2017 measurement date, the PSERS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the PSERS Board's new funding policy, the assumed investment rate of return 7.40% to 7.30% as of the June 30, 2018 measurement date.

The long-term expected rate of return on pension plan investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset class	Target allocation	Long-term expected real rate of return*
Fixed income	30.00%	(0.10)%
Domestic large equities	46.20	8.90
Domestic small equities	1.30	13.20
International developed market equities	12.40	8.90
International emerging market equities	5.10	10.90
Alternatives	5.00	12.00
Total	100.00%	

\* Rates shown are net of inflation.

*Discount rate:* The discount rate used to measure the total pension liability was 7.30%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that employer and nonemployer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

### **Notes to Financial Statements**

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Sensitivity of the net pension liability to changes in the discount rate: The following presents the net pension liability, calculated using the discount rate of 7.30%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.30%) or 1-percentage-point higher (8.30%) than the current rate (dollars in thousands):

	1% Decrease (6.30%)	Current discount rate (7.30%)	1% Increase (8.30%)	
Employers' and nonemployers' net pension liability	\$287,322	165,908	63,677	

Actuarial valuation date: June 30, 2018 is the actuarial valuation date upon which the total pension liability is based. An expected total pension liability is determined as of June 30, 2019 using standard roll-forward techniques for the actual total pension liability before and after any benefit changes, reflecting the increase in the monthly benefit accrual rate from \$15.00 to \$15.25 per year of creditable service. The roll-forward calculation adds the annual normal cost (also called service cost), subtracts the actual benefit payments and refunds for the plan year, and then applies the expected investment rate of return for the year.

### (10) Net Pension Liability of Employer – LRS

The components of the net pension liability (asset) of the participating employer at June 30, 2019 were as follows (dollars in thousands):

Total pension liability Plan fiduciary net position	\$ 26,166 34,540
Employer's net pension asset	\$ (8,374)
Plan fiduciary net position as a percentage of the total pension liability	132.00%

Actuarial assumptions: The total pension liability was determined by an actuarial valuation as of June 30, 2018, using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.75%
Salary increases	n/a
Investment rate of return	7.30%, net of pension plan investment expense, including inflation
Cost-of-living adjustment	1.5% semi-annually

Postretirement mortality rates were based on the RP-2000 Combined Mortality Table projected to 2025 with projection scale BB (set forward two years for both males and females) for the period after service retirement. The RP-2000 Employee Mortality table projected to 2025 using projection scale BB was used for deaths in active service.

The actuarial assumptions used in the June 30, 2018 valuation were based on the results of an actuarial experience study for the period July 1, 2009 – June 30, 2014, with the exception of the investment rate of return. Subsequent to the June 30, 2017 measurement date, the ERS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the ERS Board's new funding policy, the assumed investment rate of return 7.40% to 7.30% as of the June 30, 2018 measurement date.

### **Notes to Financial Statements**

June 30, 2019

The long-term expected rate of return on pension plan investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset class	Target allocation Long-term expected real rate of	
Fixed income	30.00%	(0.10)%
Domestic large equities	46.20	8.90
Domestic small equities	1.30	13.20
International developed market equities	12.40	8.90
International emerging market equities	5.10	10.90
Alternatives	5.00	12.00
Total	100.00%	

\* Rates shown are net of inflation.

*Discount rate:* The discount rate used to measure the total pension liability was 7.30%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that employer and nonemployer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the net pension liability to changes in the discount rate: The following table presents the net pension liability (asset), calculated using the discount rate of 7.30%, as well as what the net pension liability (asset) would be if it were calculated using a discount rate that is 1-percentage-point lower (6.30%) or 1-percentage-point higher (8.30%) than the current rate (dollars in thousands):

	1% Decrease (6.30%)	Current discount rate (7.30%)	1% Increase (8.30%)
Employers' and nonemployers' net pension liability (asset)	\$(5,918)	(8,374)	(10,451)

Actuarial valuation date: June 30, 2018 is the actuarial valuation date upon which the total pension liability is based. An expected total pension liability is determined as of June 30, 2019 using standard roll-forward techniques. The roll-forward calculation adds the annual normal cost (also called service cost), subtracts the actual benefit payments and refunds for the plan year, and then applies the expected investment rate of return for the year.

#### **Notes to Financial Statements**

June 30, 2019

#### (11) Net Pension Liability of Employers and Nonemployers – GJRS

The components of the net pension liability (asset) of the participating employers and nonemployers at June 30, 2019 were as follows (dollars in thousands):

Total pension liability Plan fiduciary net position	\$ 440,041 479,372
Employer's net pension asset	\$ (39,331)
Plan fiduciary net position as a percentage of the total pension liability	108.94%

Actuarial assumptions: The total pension liability was determined by an actuarial valuation as of June 30, 2018, using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.75%
Salary increases	4.50%, including inflation
Investment rate of return	7.30%, net of pension plan investment expense, including inflation

Mortality rates were based on the RP-2000 Combined Mortality Table projected to 2025 with projection scale BB and set forward two years for both males and females for the period after retirement and for dependent beneficiaries. For the period after disability retirement, the RP-2000 Disabled Mortality Table projected to 2025 with projection scale BB and set back seven years for males and set forward three years for females is used. Rates of mortality in active service were based on the RP-2000 Employee Mortality Table projected to 2025 with projection scale BB.

The actuarial assumptions used in the June 30, 2018 valuation were based on the results of an actuarial experience study for the period July 1, 2009 – June 30, 2014, with the exception of the investment rate of return. Subsequent to the June 30, 2017 measurement date, the GJRS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the GJRS Board's new funding policy, the assumed investment rate of return 7.40% to 7.30% as of the June 30, 2018 measurement date.

The long-term expected rate of return on pension plan investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset class	Target allocation	Long-term expected real rate of return*
Fixed income	30.00%	(0.10)%
Domestic large equities	46.20	8.90
Domestic small equities	1.30	13.20
International developed market equities	12.40	8.90
International emerging market equities	5.10	10.90
Alternatives	5.00	12.00
Total	100.00%	

\* Rates shown are net of inflation.

### **Notes to Financial Statements**

June 30, 2019

*Discount rate:* The discount rate used to measure the total pension liability was 7.30%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that employer and nonemployer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the net pension liability to changes in the discount rate: The following table presents the net pension liability (asset), calculated using the discount rate of 7.30%, as well as what the net pension liability (asset) would be if it were calculated using a discount rate that is 1-percentage-point lower (6.30%) or 1-percentage-point higher (8.30%) than the current rate (dollars in thousands):

	1% Decrease (6.30%)	Current discount rate (7.30%)	1% Increase (8.30%)
Employers' and nonemployers' net pension liability (asset)	\$1,681	(39,331)	(75,029)

Actuarial valuation date: June 30, 2018 is the actuarial valuation date upon which the total pension liability is based. An expected total pension liability is determined as of June 30, 2019 using standard roll-forward techniques for the actual total pension liability both for and after reflecting the 2% cost-of-living adjustment granted to certain retired members and beneficiaries effective July 1, 2019. The roll-forward calculation adds the annual normal cost (also called service cost), subtracts the actual benefit payments and refunds for the plan year, and then applies the expected investment rate of return for the year.

### (12) Net Pension Liability of Employer – GMPF

The components of the net pension liability of the participating employer at June 30, 2019 were as follows (dollars in thousands):

Total pension liability Plan fiduciary net position	\$ 45,639 26,417
Employer's net pension asset	\$ 19,222
Plan fiduciary net position as a percentage of the total pension liability	57.88%

Actuarial assumptions: The total pension liability was determined by an actuarial valuation as of June 30, 2018, using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.75%
Salary increases	n/a
Investment rate of return	7.30%, net of pension plan investment expense, including inflation

Postretirement mortality rates were based on the RP-2000 Combined Mortality Table projected to 2025 with projection scale BB (set forward two years for both males and females) for the period after service retirement. The RP-2000 Employee Mortality Table projected to 2025 using projection scale BB was used for deaths in active service.

### **Notes to Financial Statements**

June 30, 2019

The actuarial assumptions used in the June 30, 2018 valuation were based on the results of an actuarial experience study for the period July 1, 2009 – June 30, 2014, with the exception of the investment rate of return. Subsequent to the June 30, 2017 measurement date, the ERS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the ERS Board's new funding policy, the assumed investment rate of return 7.40% to 7.30% as of the June 30, 2018 measurement date.

The long-term expected rate of return on pension plan investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset class	Target allocation	Long-term expected real rate of return*
Fixed income	30.00%	(0.10)%
Domestic large equities	46.20	8.90
Domestic small equities	1.30	13.20
International developed market equities	12.40	8.90
International emerging market equities	5.10	10.90
Alternatives	5.00	12.00
Total	100.00%	

\* Rates shown are net of inflation.

*Discount rate:* The discount rate used to measure the total pension liability was 7.30%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that employer and nonemployer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the net pension liability to changes in the discount rate: The following table presents the net pension liability (asset), calculated using the discount rate of 7.30%, as well as what the net pension liability (asset) would be if it were calculated using a discount rate that is 1-percentage-point lower (6.30%) or 1-percentage-point higher (8.30%) than the current rate (dollars in thousands):

	1% Decrease (6.30%)	Current discount rate (7.30%)	1% Increase (8.30%)
Employers' net pension liability	\$25,666	19,222	13,980

Actuarial valuation date: June 30, 2018 is the actuarial valuation date upon which the total pension liability is based. An expected total pension liability is determined as of June 30, 2019 using standard roll-forward techniques. The roll-forward calculation adds the annual normal cost (also called service cost), subtracts the actual benefit payments and refunds for the plan year, and then applies the expected investment rate of return for the year.

June 30, 2019

### (13) Net OPEB Liability of Employers - SEAD-OPEB

The components of the net OPEB liability (asset) of the participating employers at June 30, 2019 were as follows (dollars in thousands):

Total OPEB liability Plan fiduciary net position	\$ 951,091 1,233,856
Employers' net OPEB asset	\$ (282,765)
Plan fiduciary net position as a percentage of the total OPEB liability	129.73%

Actuarial assumptions: The total OPEB liability was determined by an actuarial valuation as of June 30, 2018, using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.75%
Salary increases:	
ERS	3.25% - 7.00%
GJRS	4.50%
LRS	n/a
Investment rate of return	7.30%, net of OPEB plan investment expense, including inflation
Healthcare cost trend rate	n/a

Postretirement mortality rates were based on the RP-2000 Combined Mortality Table with future mortality improvement projected to 2025 with the Society of Actuaries' projection scale BB and set forward two years for both males and females for service retirements and dependent beneficiaries. There is a margin for future mortality improvement in the tables used by the plan.

The actuarial assumptions used in the June 30, 2018 valuation were based on the results of an actuarial experience study for the period July 1, 2009 – June 30, 2014, with the exception of the investment rate of return. Subsequent to the June 30, 2017 measurement date, the SEAD Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the SEAD Board's new funding policy, the assumed investment rate of return 7.40% to 7.30% as of the June 30, 2018 measurement date.

The long-term expected rate of return on OPEB plan investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of OPEB plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset class	Target allocation	Long-term expected real rate of return*
Fixed income	30.00%	(0.10)%
Domestic large equities	46.20	8.90
Domestic small equities	1.30	13.20
International developed market equities	12.40	8.90
International emerging market equities	5.10	10.90
Alternatives	5.00	12.00
Total	100.00%	

\* Rates shown are net of inflation.

#### **Notes to Financial Statements**

June 30, 2019

Discount rate: The discount rate used to measure the total OPEB liability was 7.30%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that employer and nonemployer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the OPEB plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on OPEB plan investments was applied to all periods of projected benefit payments to determine the total OPEB liability.

Sensitivity of the net OPEB liability to changes in the discount rate: The following table presents the net OPEB asset, calculated using the discount rate of 7.30%, as well as what the net OPEB asset would be if it were calculated using a discount rate that is 1-percentage-point lower (6.30%) or 1-percentage-point higher (8.30%) than the current rate (dollars in thousands):

	1% Decrease (6.30%)	Current discount rate (7.30%)	1% Increase (8.30%)
Employers' net OPEB asset	\$(156,471)	(282,765)	(386,551)

Actuarial valuation date: June 30, 2018 is the actuarial valuation date upon which the total OPEB liability is based. An expected total OPEB liability is determined as of June 30, 2019 using standard roll-forward techniques. The rollforward calculation adds the annual normal cost (also called service cost), subtracts the actual benefit payments and refunds for the plan year, and then applies the expected investment rate of return for the year.

#### (14) System Employees' Other Postemployment Benefits (OPEB)

Certain of the System's employees are members of the State Employees' Assurance Department Retired and Vested Inactive Members Trust Fund and the Georgia State Employees Postretirement Benefit Fund. The notes to the financial statements that follow and required supplementary information on pages 69 and 70 are presented from the perspective of the System as an employer.

# General Information about the State Employees' Assurance Department Retired and Vested Inactive Members Trust Fund (SEAD-OPEB)

*Plan description:* SEAD-OPEB was created in 2007 by the Georgia General Assembly to amend Title 47 of the O.C.G.A., relating to retirement, so as to establish a fund for the provision of term life insurance to retired and vested inactive members of ERS, LRS, and GJRS. The plan is a cost-sharing multiple-employer defined benefit other postemployment benefit plan as defined in GASB Statement No. 74, *Financial Reporting for Postemployment Benefit Plans Other Than OPEB Plans*. The SEAD-OPEB trust fund accumulates the premiums received from the aforementioned retirement plans, including interest earned on deposits and investments of such payments.

*Benefits provided:* The amount of insurance for a retiree with creditable service prior to April 1, 1964 is the full amount of insurance in effect on the date of retirement. The amount of insurance for a service retiree with no creditable service prior to April 1, 1964 is 70% of the amount of insurance in effect at age 60 or at termination, if earlier. Life insurance proceeds are paid in a lump sum to the beneficiary upon death of the retiree.

*Contributions*: Georgia law provides that employee contributions to the plan shall be in an amount established by the SEAD Board not to exceed one-half of 1% of the member's earnable compensation. There were no employer contributions required for the fiscal year ended June 30, 2019.

June 30, 2019

#### **OPEB Liabilities and OPEB Expense related to SEAD-OPEB**

At June 30, 2019, the System reported an asset of \$541.5 thousand for its proportionate share of the net OPEB asset. The net OPEB asset was measured as of June 30, 2018. The total OPEB asset used to calculate the net OPEB asset was based on an actuarial valuation as of June 30, 2017. An expected total OPEB asset as of June 30, 2018 was determined using standard roll-forward techniques. The System's proportionate share of the net OPEB asset was based on actual member salaries reported to the SEAD-OPEB plan during the fiscal year ended June 30, 2018. At June 30, 2018, the employer's proportionate share was 0.200064%, which was an increase of 0.007200% from its proportionate share measured as of June 30, 2017. For the year ended June 30, 2019, the employer recognized a reduction of OPEB expense of \$53.0 thousand.

Actuarial assumptions: The total SEAD-OPEB asset as of June 30, 2018 was determined by an actuarial valuation as of June 30, 2017 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.75%
Salary increase:	3.25 - 7.00%, including inflation
Investment rate of return	7.30%, net of OPEB plan investment expense, including inflation
Healthcare cost trend rate	N/A

Postretirement mortality rates were based on the RP-2000 Combined Mortality Table with future mortality improvement projected to 2025 with the Society of Actuaries' projection scale BB and set forward 2 years for both males and females for service retirements and dependent beneficiaries. There is a margin for future mortality improvement in the tables used by the plan.

The actuarial assumptions used in the June 30, 2017 valuation were based on the results of an actuarial experience study for the period July 1, 2009 – June 30, 2014, with the exception of the investment rate of return. Subsequent to the June 30, 2017 measurement date, the SEAD Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the SEAD Board's new funding policy, the assumed investment rate of return vas further reduced by 0.10% from 7.40% to 7.30% as of the June 30, 2018 measurement date.

The long-term expected rate of return on SEAD-OPEB plan investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected nominal returns, net of plan investment expense and the assumed rate of inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset class	Target allocation	Long-term expected real rate of return*
Fixed income	30.00%	(0.50)%
Domestic large equities	37.20	9.00
Domestic mid equities	3.40	12.00
Domestic small equities	1.40	13.50
International developed market equities	17.80	8.00
International emerging market equities	5.20	12.00
Alternatives	5.00	10.50
Total	100.00%	

\* Rates shown are net of inflation.

### **Notes to Financial Statements**

June 30, 2019

*Discount rate*: The discount rate used to measure the total SEAD-OPEB liability was 7.30%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that employers and State of Georgia contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the SEAD-OPEB plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on SEAD-OPEB plan investments was applied to all periods of projected benefit payments to determine the total SEAD-OPEB liability.

Sensitivity of the System's proportionate share of the net SEAD-OPEB liability to changes in the discount rate: The following presents the System's proportionate share of the net SEAD-OPEB liability calculated using the discount rate of 7.30%, as well as what the System's proportionate share of the net SEAD-OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower 6.30% or 1-percentage-point higher 8.30% than the current rate (dollars in thousands):

	1% Decrease (6.30%)	Current discount rate (7.30%)	1% Increase (8.30%)
System's proportionate share of the net OPEB liability (asset)	\$(291,739)	(541,465)	(746,157)

**SEAD-OPEB plan fiduciary net position:** Detailed information about the SEAD-OPEB plan's fiduciary net position is presented in the *Combining Statement of Fiduciary Net Position* on page 14 and the *Combining Statement of Changes in Fiduciary Net Postion* on page 16.

#### General Information about the Georgia State Employees Postemployment Benefit Fund (State OPEB Fund)

*Plan description:* The State OPEB Fund provides healthcare benefits for retirees and their dependents due under the group health plan for employees of State organizations (including technical colleges) and other entities authorized by law to contract with the Department of Community Health (DCH) for inclusion in the plan.

*Benefits provided:* Retiree medical eligibility is attained when an employee retires and is immediately eligible to draw a retirement annuity from ERS, LRS, GJRS, Teachers Retirement System (TRS) or PSERS. If elected, dependent coverage starts on the same day as retiree coverage. Medicare-eligible retirees are offered Standard and Premium Medicare Advantage plan options. Non-Medicare-eligible retiree plan options include Health Reimbursement Arrangement (HRA), Health Maintenance Organization (HMO) and a High Deductible Health Plan (HDHP). The State OPEB Fund also pays for administrative expenses of the fund. By law, no other use of the assets of the State OPEB Fund is permitted.

*Contributions:* As established by the DCH Board of Trustees, the State OPEB Fund is substantially funded on a pay-as-you-go basis; that is, annual cost of providing benefits will be financed in the same year as claims occur. Contributions to the State OPEB Fund from the System were \$1.012 million for the year ended June 30, 2019. Active employees are not required to contribute to the State OPEB Fund.

#### OPEB Liabilities and OPEB Expense related to State OPEB Fund

At June 30, 2019, the System reported a liability of approximately \$4.7 million for its proportionate share of the net OPEB liability. The net OPEB liability was measured as of June 30, 2018. The total OPEB liability used to calculate the net OPEB liability was based on an actuarial valuation as of June 30, 2017. An expected total OPEB liability as of June 30, 2018 was determined using standard roll-forward techniques. The System's proportionate share of the net OPEB liability was actuarially determined based on employer contributions during the fiscal year

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ended June 30, 2018. At June 30, 2018, the System's proportionate share was 0.181584%, which was a decrease of 0.004246% from its proportionate share measured as of June 30, 2017. For the year ended June 30, 2019, the System's recognized OPEB expense was \$320.7 thousand.

Actuarial assumptions: The total OPEB liability as of June 30, 2018 was determined by an actuarial valuation as of June 30, 2017 using the following actuarial assumptions and other inputs, applied to all periods included in the measurement and rolled forward to the measurement date of June 30, 2018:

Inflation Salary increase:	2.75% 3.25 - 7.00%, including inflation 7.30%, compounded annually, net of OPEB plan investment expense,
Investment rate of return	including inflation
Healthcare trend rate:	
Pre-Medicare Eligible	7.50%
Medicare Eligible	5.50%
Ultimate trend rate:	
Pre-Medicare Eligible	4.75%
Medicare Eligible	4.75%
Year of Ultimate trend rate	
Pre-Medicare Eligible	2028
Medicare Eligible	2022

Mortality rates were based on the RP-2000 Combined Mortality Table for Males or Females, as appropriate, with adjustments for mortality improvements based on Scale BB. The RP-2000 Combined Mortality Table projected to 2025 with projection scale BB and set forward 2 years or both males and females is used for the period after service retirement and for dependent beneficiaries. The RP-2000 Disabled Mortality Table projected to 2025 with projection scale BB and set for males and set forward 3 years for females is used for the period after disability retirement.

The actuarial assumptions used in the June 30, 2017 valuation were based on the results of an actuarial experience study for the pension systems, which covered the five-year period ending June 30, 2014.

Projection of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the employer and plan members) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs between the employer and plan members to that point. The actuarial methods and assumptions used include techniques that are designed to reduce the effects of short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculation.

The long-term expected rate of return on OPEB plan investments was determined using a log-normal distribution analysis in which best-estimate ranges of expected future real rates of return (expected nominal returns, net of investment expense and the assumed rate of inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. The target allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the table on the following page:

### **Notes to Financial Statements**

June 30, 2019

Asset class	Target allocation	Long-term expected real rate of return*
Fixed income	30.00%	(0.50)%
Domestic large equities	37.20	9.00
Domestic mid equities	3.40	12.00
Domestic small equities	1.40	13.50
International developed market equities	17.80	8.00
International emerging market equities	5.20	12.00
Alternatives	5.00	10.50
Total	100.00%	-

\* Rates shown are net of inflation.

*Discount rate:* The discount rate has changed since the prior measurement date from 3.60% to 5.22%. In order to measure the total OPEB liability for the State OPEB Fund, a single equivalent interest rate of 5.22% was used as the discount rate. This is comprised mainly of the yield or index rate for 20-year tax-exempt general obligation municipal bonds with an average rating of AA or higher (3.87% per the Bond Buyers Index). The projection of cash flows used to determine the discount rate assumed that contributions from members and from the employer will be made at the current level as averaged over the last five years, adjusted for annual projected changes in headcount. Projected future benefit payments for all current plan members were projected through 2118. Based on these assumptions, the OPEB plan's fiduciary net position was projected to be available to make OPEB payments for inactive employees through year 2040. Therefore, the calculated discount rate of 5.22% was applied to all periods of projected benefit payments to determine the total OPEB liability.

Sensitivity of the System's proportionate share of the net State OPEB liability to changes in the discount rate: The following presents the System's proportionate share of the net OPEB liability calculated using the discount rate of 5.22%, as well as what the System's proportionate share of the net OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (4.22%) or 1-percentage-point higher (6.22%) than the current discount rate (dollars in thousands):

	1% Decrease (4.22%)	Current discount rate (5.22%)	1% Increase (6.22%)
System's proportionate share of the net OPEB liability	\$5,643	4,749	4,012

Sensitivity of the System's proportionate share of the net State OPEB liability to changes in the healthcare cost trend rates: The following presents the System's proportionate share of the net OPEB liability, as well as what the System's proportionate share of the net OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage-point lower or 1-percentage-point higher than the current healthcare cost trend rates (dollars in thousands):

	1% Decrease	Current healthcare cost trend rate	1% Increase
System's proportionate share of the net OPEB liability	\$3,918	4,749	5,766

*State OPEB plan fiduciary net position:* Detailed information about the State OPEB Benefit plan's fiduciary net position is available in the Comprehensive Annual Financial Report (CAFR) which is publicly available at https:// sao.georgia.gov/comprehensive-annual-financial-reports.

June 30, 2019

# Deferred Outflows of Resources and Deferred Inflows of Resources for SEAD-OPEB and State OPEB Fund

At June 30, 2019, the System reported deferred outflows of resources and deferred inflows of resources related to SEAD-OPEB and the State OPEB Fund from the following sources (dollars in thousands):

	 D-OPEB blan	State OPEB fund	Total
Deferred outflows of resources:			
Difference between expected and actual experience	\$ 6	—	6
Change of assumptions	28	_	28
Net different between projected and actual earnings on plan investments	_	110	110
Change in proportion and differences between the System's contributions and proportionate share of contributions	_	_	_
System's contributions subsequent to the measurement date	 	1,012	1,012
Total deferred outflows of resources	\$ 34	1,122	1,156

	 D-OPEB blan	State OPEB fund	Total
Deferred inflows of resources:			
Difference between expected and actual experience	\$ 	373	373
Change of assumptions	_	1,722	1,722
Net different between projected and actual earnings on plan investments	89	_	89
Change in proportion and differences between the System's contributions and proportionate share of contributions	12	193	205
System's contributions subsequent to the measurement date	 		
Total deferred inflows of resources	\$ 101	2,288	2,389

### **Notes to Financial Statements**

June 30, 2019

SEAD-OPEB amounts reported as deferred outflows of resources and deferred inflows of resources related to SEAD-OPEB will be recognized in OPEB expense as follows (dollars in thousands):

Year ended June 30:	
2020	(\$15)
2021	(18)
2022	(27)
2023	(7)

State OPEB Fund employer contributions subsequent to the measurement date of \$1.012 million are reported as deferred outflows of resources and will be recognized as a reduction of the net OPEB liability in the year ended June 30, 2019. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to SEAD-OPEB will be recognized in OPEB expense as follows (dollars in thousands):

Year ended June 30:	
2020	(\$710)
2021	(710)
2022	(585)
2023	(173)

## **Required Supplementary Information (UNAUDITED)**

### Schedules of Employers' and Nonemployers' Contributions - Defined Benefit Plans

Year ended June 30, 2019 (In thousands)

	Year ended	Actuarially determined contribution (a)	Contributions in relation to the actuarially determined contribution (b)	Contribution deficiency (excess) (a-b)	Covered payroll (c)	Contributions as a percentage of covered payroll (b/c)
Employees' Retirement System	6/30/2010	\$263,064	263,064	_	2,571,042	10.2%
	6/30/2011	261,132	261,132	_	2,486,780	10.5
	6/30/2012	273,623	274,034	(411)	2,414,884	11.3
	6/30/2013	358,376	358,992	(616)	2,335,773	15.4
	6/30/2014	428,982	429,752	(770)	2,335,773	18.4
	6/30/2015	517,220	518,163	(943)	2,353,225	22.0
	6/30/2016	595,124	595,566	(442)	2,390,457	24.9
	6/30/2017	624,623	625,281	(658)	2,565,918	24.4
	6/30/2018	650,073	652,167	(2,094)	2,635,896	24.7
	6/30/2019	649,209	649,209	_	2,615,491	24.8
Public School Employees	6/30/2010	5,530	5,530	_	n/a	n/a
Retirement System <sup>1</sup>	6/30/2011	7,509	7,509	_	n/a	n/a
	6/30/2012	15,884	15,884	_	n/a	n/a
	6/30/2013	24,829	24,829	_	n/a	n/a
	6/30/2014	27,160	27,160	_	n/a	n/a
	6/30/2015	28,461	28,461	_	n/a	n/a
	6/30/2016	28,580	28,580	_	n/a	n/a
	6/30/2017	26,277	26,277	_	n/a	n/a
	6/30/2018	29,276	29,276	_	n/a	n/a
	6/30/2019	30,263	30,263	—	n/a	n/a
Legislative Retirement System <sup>2</sup>	6/30/2010	_	75	(75)	n/a	n/a
, s	6/30/2011	_	75	(75)	n/a	n/a
	6/30/2012	—	76	(76)	n/a	n/a
	6/30/2013	—	128	(128)	n/a	n/a
	6/30/2014	—	45	(45)	n/a	n/a
	6/30/2015	—	—	—	n/a	n/a
	6/30/2016	—	—	—	n/a	n/a
	6/30/2017	—	—	—	n/a	n/a
	6/30/2018	_	_	_	n/a	n/a
	6/30/2019	—	_	—	n/a	n/a

## **Required Supplementary Information (UNAUDITED)**

### Schedules of Employers' and Nonemployers' Contributions - Defined Benefit Plans

Year ended June 30, 2019 (In thousands)

	Year ended	Actuarially determined contribution (a)	Contributions in relation to the actuarially determined contribution (b)	Contribution deficiency (excess) (a-b)	Covered payroll (c)	Contributions as a percentage of covered payroll (b/c)
Georgia Judicial	6/30/2010	\$2,600	2,600	_	51,293	5.1%
Retirement System	6/30/2011	1,932	1,932	_	52,331	3.7
Reurement System	6/30/2012	2,083	2,083	_	51,898	4
	6/30/2013	2,279	2,279	_	52,807	4.3
	6/30/2014	2,375	2,375	_	54,787	4.3
	6/30/2015	4,261	4,261	_	54,272	7.9
	6/30/2016	7,623	7,623	_	57,401	13.3
	6/30/2017	6,684	6,684	_	59,695	11.2
	6/30/2018	6,566	6,566	_	60,572	10.8
	6/30/2019	5,254	5,254	—	60,532	8.7
Georgia Military Pension	6/30/2010	1,434	1,434	_	n/a	n/a
Fund <sup>3</sup>	6/30/2011	1,282	1,282	—	n/a	n/a
	6/30/2012	1,521	1,521	_	n/a	n/a
	6/30/2013	1,703	1,703	—	n/a	n/a
	6/30/2014	1,892	1,892	_	n/a	n/a
	6/30/2015	1,893	1,893	_	n/a	n/a
	6/30/2016	1,990	1,990	—	n/a	n/a
	6/30/2017	2,018	2,018	—	n/a	n/a
	6/30/2018	2,377	2,377	—	n/a	n/a
	6/30/2019	2,537	2,537	_	n/a	n/a
State Employees' Assurance	6/30/2010	_	_	_	n/a	n/a
Department Retired and	6/30/2011	—	—	—	n/a	n/a
Vested Inactive Members	6/30/2012	12,724	12,724	—	2,085,902	1
Trust Fund	6/30/2013	5,009	5,009	_	1,855,185	-
	6/30/2014	_	_	_	n/a	n/a
	6/30/2015	_	_	_	n/a	n/a
	6/30/2016	_	_	_	n/a	n/a
	6/30/2017	—	—	—	n/a	n/a
	6/30/2018	—	—	—	n/a	n/a
	6/30/2019				n/a	n/a

This data, except for annual covered payroll, was provided by the System's actuary.

<sup>1</sup>No statistics regarding covered payroll are available. Contributions are not based upon members' salaries but are simply \$4.00 per member, per month, for nine months,

each fiscal year if hired prior to July 1, 2012 and \$10 per month, per member, for nine months, if hired after July 1,2012.

<sup>2</sup> The Georgia General Assembly made contributions in some years that were not required.

3 No statistics regarding covered payroll are available. Active and inactive plan member information is maintained by the Georgia Department of Defense.

## **Required Supplementary Information (UNAUDITED)**

## Schedules of Employers' and Nonemployers' Net Pension/OPEB Liability and Related Ratios – Defined Benefit Plans

June 30, 2019 (In thousands)

	June 30, 2019	June 30, 2018	June 30, 2017	June 30, 2016	June 30, 2015	June 30, 2014
Employees' Retirement System:						
Total pension liability	\$ 17,744,003	17,628,219	17,159,634	17,103,987	17,019,362	17,042,149
Plan fiduciary net position	13,617,472	13,517,186	13,098,299	12,373,567	12,967,964	13,291,531
Employers' and nonemployers' net pension liability	\$ 4,126,531	4,111,033	4,061,335	4,730,420	4,051,398	3,750,618
Plan fiduciary net position as a percentage of the total pension liability	76.74%	76.68%	76.33%	72.34%	76.20%	77.99%
Covered payroll	\$ 2,615,491	2,635,896	2,565,918	2,390,457	2,353,225	2,335,773
Employers' and nonemployers' net pension liability as a percentage of covered payroll	157.77%	155.96 %	158.28%	197.89%	172.16%	160.57 %
Public School Employees Retirement System:						
Total pension liability	\$ 1,107,495	1,072,165	1,013,163	992,292	946,200	930,745
Plan fiduciary net position	941,587	914,138	868,134	803,775	823,150	821,733
Employers' and nonemployers' net pension liability	\$ 165,908	158,027	145,029	188,517	123,050	109,012
Plan fiduciary net position as a percentage of the total pension liability	85.02%	85.26%	85.69%	81.00 %	87.00%	88.29%
Covered payroll	n/a	n/a	n/a	n/a	n/a	n/a
Employers' and nonemployers' net pension liability as a percentage of covered payroll	n/a	n/a	n/a	n/a	n/a	n/a
Legislative Retirement System:						
Total pension liability	\$ 26,166	26,304	25,898	26,142	25,271	25,216
Plan fiduciary net position	34,540	34,189	32,981	30,975	32,359	32,794
Employer's net pension asset	\$ (8,374)	(7,885)	(7,083)	(4,833)	(7,088)	(7,578)
Plan fiduciary net position as a percentage of the total pension liability	132.00 %	129.98%	127.35%	118.49 %	128.05%	130.05%
Covered payroll	n/a	n/a	n/a	n/a	n/a	n/a
Employer's net pension asset as a percentage of covered payroll	n/a	n/a	n/a	n/a	n/a	n/a
Georgia Judicial Retirement System:						
Total pension liability	\$ 440,041	428,624	394,736	368,669	357,081	350,443
Plan fiduciary net position	479,372	466,657	441,182	403,011	404,852	400,790
Employers' and nonemployers' net pension asset	\$ (39,331)	(38,033)	(46,446)	(34,342)	(47,771)	(50,347)
Plan fiduciary net position as a percentage of the total pension liability	108.94 %	108.87 %	111.77 %	109.32%	113.38 %	114.37 %
Covered payroll	\$ 60,532	60,572	59,695	57,401	54,272	54,787
Employers' and nonemployers' net pension asset as a percentage of covered payroll	64.98%	62.79%	77.81%	59.83%	88.02%	91.90%

## **Required Supplementary Information (UNAUDITED)**

#### Schedules of Employers' and Nonemployers' Net Pension/OPEB Liability and Related Ratios – Defined Benefit Plans June 30, 2019

(In thousands)

	Jun	e 30, 2019	June 30, 2018	June 30, 2017	June 30, 2016	June 30, 2015	June 30, 2014
Georgia Military Pension Fund:							
Total pension liability	\$	45,639	43,204	40,085	36,950	33,343	31,511
Plan fiduciary net position		26,417	23,653	20,711	17,717	16,712	15,25
Employers' net pension liability	\$	19,222	19,551	19,374	19,233	16,631	16,260
Plan fiduciary net position as a percentage of the total pension liability		57.88%	54.75%	51.67%	47.95%	50.12%	48.4
Covered payroll		n/a	n/a	n/a	n/a	n/a	n
Employers' net pension liability as a percentage of covered payroll		n/a	n/a	n/a	n/a	n/a	r
State Employees' Assurance Department - Retired and Vested Inactive Members Trust Fund:							
Total pension liability	\$	951,091	918,816	861,346	—	—	-
		4 000 050					
Plan fiduciary net position		1,233,856	1,189,462	1,121,251			
Plan fiduciary net position Employer's net OPEB asset	\$	1,233,856 (282,765)	1,189,462 (270,646)	1,121,251 (259,905)			
	\$				 	 	 
Employer's net OPEB asset	\$	(282,765)	(270,646)	(259,905)			

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

### **Required Supplementary Information (UNAUDITED)**

# Schedules of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability – Defined Benefit Plans June 30, 2019

(In thousands)

	June 30, 2019	June 30, 2018	June 30, 2017	June 30, 2016	June 30, 2015	June 30, 2014
mployee's Retirement System:						
Total pension liability:						
Service cost	\$ 135,679	129,294	125,910	143,043	145,045	150,07
Interest	1,233,882	1,233,689	1,230,175	1,225,650	1,227,846	1,224,38
Benefit changes	42,097	31,097	30,563	—	—	
Differences between expected and actual experience	155,573	180,655	72,315	(238)	(53,950)	
Changes of assumptions	—	314,733	—	70,890	—	
Benefit payments	(1,443,756)	(1,413,298)	(1,394,283)	(1,347,633)	(1,334,278)	(1,305,9
Refunds of contributions	(7,691)	(7,585)	(9,033)	(7,087)	(7,450)	(8,7
Net change in total pension liability	115,784	468,585	55,647	84,625	(22,787)	59,7
Total pension liability-beginning	17,628,219	17,159,634	17,103,987	17,019,362	17,042,149	16,982,4
Total pension liability-end (a)	17,744,003	17,628,219	17,159,634	17,103,987	17,019,362	17,042,1
Plan fiduciary net position:						
Contributions-employer	638,989	639,302	613,201	583,082	505,668	418,8
Contributions-nonemployer	10,220	12,865	12,080	12,484	12,495	10,9
Contributions-member	36,252	37,130	35,863	31,961	33,713	32,4
Administrative expense allotment	10	10	10	10	10	
Net investment income	873,404	1,166,013	1,475,626	141,292	474,147	2,021,7
Benefit payments	(1,443,756)	(1,413,298)	(1,394,283)	(1,347,633)	(1,334,278)	(1,305,9
Administrative expense	(7,142)	(8,056)	(8,732)	(8,506)	(7,872)	(7,4
Refunds of contributions	(7,691)	(7,585)	(9,033)	(7,087)	(7,450)	(8,7
Other <sup>1</sup>		(7,494)				
Net change in plan fiduciary net position	100,286	418,887	724,732	(594,397)	(323,567)	1,161,7
Plan fiduciary net position-beginning	13,517,186	13,098,299	12,373,567	12,967,964	13,291,531	12,129,8
Plan fiduciary net position-end(b)	13,617,472	13,517,186	13,098,299	12,373,567	12,967,964	13,291,5
Net pension liability-end (a)-(b)	\$ 4,126,531	4,111,033	4,061,335	4,730,420	4,051,398	3,750,6

<sup>1</sup> The System is a participating employer in the Georgia State Employees Postemployment Benefit Fund and the State Employees' Assurance Department Retired and Vested Inactive Members Trust Fund. Pursuant to the requirements of GASB Statement No. 75, the fiscal year 2018 beginning Fiduciary Net Position was restated by \$7,494,507. The restatement of net position was made for reporting purposes to reflect the impact of recording the initial deferred outflows of resources, net OPEB liability, and net OPEB asset. For actuarial purposes, this adjustment is being recognized in fiscal year 2018 and beginning fiduciary net position was not restated.

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

## **Required Supplementary Information (UNAUDITED)**

## Schedules of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability – Defined Benefit Plans

June 30, 2019 (In thousands)

	June 30, 2019	June 30, 2018	June 30, 2017	June 30, 2016	June 30, 2015	June 30, 2014
						04110 00, 2014
Public School Employees Retirement System:						
Total pension liability:						
Service cost	\$ 13,762	13,180	12,788	11,952	12,088	11,049
Interest	75,923	73,643	72,157	68,776	67,652	66,143
Benefit changes	18,050	17,289	—	—	—	—
Differences between expected and actual experience	(8,159)	(3,943)	(3,665)	(9,483)	(6,858)	—
Changes of assumptions	—	21,354	—	33,215	—	—
Benefit payments	(63,637)	(61,820)	(59,378)	(57,903)	(56,972)	(56,189)
Refunds of contributions	(609)	(701)	(1,031)	(465)	(455)	(514)
Net change in total pension liability	35,330	59,002	20,871	46,092	15,455	20,489
Total pension liability-beginning	1,072,165	1,013,163	992,292	946,200	930,745	910,256
Total pension liability-end (a)	1,107,495	1,072,165	1,013,163	992,292	946,200	930,745
Plan fiduciary net position:						
Contributions-employer	30,263	29,276	26,277	28,580	28,461	27,160
Contributions-member	2,256	2,162	2,084	1,925	1,800	1,659
Net investment income	60,553	78,418	97,715	9,809	30,129	123,799
Benefit payments	(63,637)	(61,820)	(59,378)	(57,903)	(56,972)	(56,189)
Administrative expense	(1,377)	(1,331)	(1,308)	(1,321)	(1,545)	(1,450)
Refunds of contributions	(609)	(701)	(1,031)	(465)	(456)	(514)
Net change in plan fiduciary net position	27,449	46,004	64,359	(19,375)	1,417	94,465
Plan fiduciary net position-beginning	914,138	868,134	803,775	823,150	821,733	727,268
Plan fiduciary net position-end(b)	941,587	914,138	868,134	803,775	823,150	821,733
Net pension liability-end (a)-(b)	\$ 165,908	158,027	145,029	188,517	123,050	109,012

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

## **Required Supplementary Information (UNAUDITED)**

# Schedules of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability – Defined Benefit Plans June 30, 2019

(In thousands)

	June 30, 2019	June 30, 2018	June 30, 2017	June 30, 2016	June 30, 2015	June 30, 2014
Legislative Retirement System:						
Total pension liability:						
Service cost	\$ 366	359	357	331	338	344
Interest	1,850	1,875	1,892	1,829	1,824	1,799
Benefit changes	—	—	—	—	—	—
Differences between expected and actual experience	(428)	(481)	(655)	(465)	(325)	—
Changes of assumptions	_	447	_	938	_	_
Benefit payments	(1,856)	(1,772)	(1,763)	(1,724)	(1,756)	(1,801)
Refunds of contributions	(70)	(22)	(75)	(38)	(26)	(30)
Net change in total pension liability	(138)	406	(244)	871	55	312
Total pension liability-beginning	26,304	25,898	26,142	25,271	25,216	24,904
Total pension liability-end (a)	26,166	26,304	25,898	26,142	25,271	25,216
Plan fiduciary net position:						
Contributions-employer	_	_	_	_	_	45
Contributions-member	339	323	327	328	327	282
Net investment income	2,228	2,962	3,741	363	1,189	4,969
Benefit payments	(1,856)	(1,772)	(1,763)	(1,724)	(1,756)	(1,801)
Administrative expense	(290)	(283)	(224)	(313)	(169)	(152)
Refunds of contributions	(70)	(22)	(75)	(38)	(26)	(30)
Net change in plan fiduciary net position	351	1,208	2,006	(1,384)	(435)	3,313
Plan fiduciary net position-beginning	34,189	32,981	30,975	32,359	32,794	29,481
Plan fiduciary net position-end(b)	34,540	34,189	32,981	30,975	32,359	32,794
Net pension liability-end (a)-(b)	\$ (8,374)	(7,885)	(7,083)	(4,833)	(7,088)	(7,578)

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

## **Required Supplementary Information (UNAUDITED)**

# Schedules of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability – Defined Benefit Plans June 30, 2019

(In thousands)

	June 30, 2019	June 30, 2018	June 30, 2017	June 30, 2016	June 30, 2015	June 30, 2014
Georgia Judicial Retirement System:						
Total pension liability:						
Service cost	\$ 13,350	13,019	12,514	12,713	7,751	7,584
Interest	30,267	28,666	26,826	26,058	25,566	24,530
Benefit changes	1,065	3,442	3,419	—	—	-
Differences between expected and actual experience	(5,250)	6,379	5,258	(3,603)	(7,542)	-
Changes of assumptions	—	7,466	—	(4,308)	—	-
Benefit payments	(27,462)	(24,934)	(21,784)	(19,011)	(18,365)	(17,44
Refunds of contributions	(553)	(150)	(166)	(261)	(772)	(22
Net change in total pension liability	11,417	33,888	26,067	11,588	6,638	14,65
Total pension liability-beginning	428,624	394,736	368,669	357,081	350,443	335,79
Total pension liability-end (a)	440,041	428,624	394,736	368,669	357,081	350,44
Plan fiduciary net position:						
Contributions-employer	3,117	4,725	4,081	4,754	2,696	1,37
Contributions-nonemployer	2,137	1,841	2,603	2,869	1,564	1,00
Contributions-member	5,469	4,910	4,906	5,507	5,061	4,73
Net investment income	30,827	39,877	49,259	5,055	14,697	60,01
Benefit payments	(27,462)	(24,934)	(21,784)	(19,011)	(18,365)	(17,44
Administrative expense	(820)	(794)	(728)	(754)	(819)	(75
Refunds of contributions	(553)	(150)	(166)	(261)	(772)	(2
Net change in plan fiduciary net position	12,715	25,475	38,171	(1,841)	4,062	48,90
Plan fiduciary net position-beginning	466,657	441,182	403,011	404,852	400,790	351,88
Plan fiduciary net position-end(b)	479,372	466,657	441,182	403,011	404,852	400,79
Net pension liability-end (a)-(b)	\$ (39,331)	(38,033)	(46,446)	(34,342)	(47,771)	(50,34

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

## **Required Supplementary Information (UNAUDITED)**

# Schedules of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability – Defined Benefit Plans June 30, 2019

(In thousands)

	June 30, 2019	June 30, 2018	June 30, 2017	June 30, 2016	June 30, 2015	June 30, 2014
eorgia Military Pension Fund:						
Total pension liability:						
Service cost	\$ 97	84	89	73	73	73
Interest	3,109	2,964	2,732	2,465	2,330	2,223
Benefit changes	—	—	—	—	—	—
Differences between expected and actual experience	449	116	1,356	950	326	—
Changes of assumptions	—	1,093	—	1,082	—	—
Benefit payments	(1,220)	(1,138)	(1,042)	(963)	(897)	(841)
Refunds of contributions						
Net change in total pension liability	2,435	3,119	3,135	3,607	1,832	1,455
Total pension liability-beginning	43,204	40,085	36,950	33,343	31,511	30,056
Total pension liability-end (a)	45,639	43,204	40,085	36,950	33,343	31,511
Plan fiduciary net position:						
Contributions-employer	2,537	2,377	2,018	1,990	1,893	1,892
Contributions-member	—	—	—	—	—	—
Net investment income	1,683	1,928	2,262	240	585	2,179
Benefit payments	(1,220)	(1,138)	(1,042)	(963)	(896)	(841
Administrative expense	(236)	(225)	(244)	(262)	(121)	(110
Refunds of contributions	—	—	—	—	—	—
Other						
Net change in plan fiduciary net position	2,764	2,942	2,994	1,005	1,461	3,120
Plan fiduciary net position-beginning	23,653	20,711	17,717	16,712	15,251	12,131
Plan fiduciary net position-end(b)	26,417	23,653	20,711	17,717	16,712	15,251
Net pension liability-end (a)-(b)	\$ 19,222	19,551	19,374	19,233	16,631	16,260

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

## **Required Supplementary Information (UNAUDITED)**

# Schedules of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability – Defined Benefit Plans June 30, 2019

(In thousands)

	June 30, 2019	June 30, 2018	June 30, 2017
Statement Employees' Assurance Department Retired and Vested Inactive Members Trust Fund:			
Total OPEB Liability:			
Service cost	\$ 3,617	3,695	3,959
Interest	65,708	63,242	61,076
Benefit changes	—	_	—
Differences between expected and actual experience	366	4,697	—
Changes of assumptions	—	22,085	—
Benefit payments	(37,416)	(36,249)	(36,058)
Refunds of contributions			
Net change in total OPEB liability	32,275	57,470	28,977
Total OPEB liability-beginning	918,816	861,346	832,369
Total OPEB liability-end	951,091	918,816	861,346
Plan fiduciary net position:			
Contributions - employer	_	_	1
Insurance premiums - member	3,328	3,599	3,793
Net investment income	79,193	101,542	125,550
Benefit payments	(37,416)	(36,249)	(36,058)
Administrative expense	(716)	(681)	(576)
Refunds of contributions	—	—	—
Other	5		
Net change in plan fiduciary net position	44,394	68,211	92,710
Plan fiduciary net position-beginning	1,189,462	1,121,251	1,028,541
Plan fiduciary net position-end(b)	1,233,856	1,189,462	1,121,251
Net OPEB asset-end (a)-(b)	\$ (282,765)	(270,646)	(259,905)

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

## **Required Supplementary Information (UNAUDITED)**

#### **Schedule of Investment Returns**

Year ended June 30, 2019

	2019	2018	2017	2016	2015	2014
Pooled Investment Fund:						
Annual money-weighted rate of return, net of investment expense	(1.8)%	0.6%	2.9%	(7.2)%	(5.3)%	6.0%

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

## **Required Supplementary Information (UNAUDITED)**

### Schedules of the System's Proportionate Share of the Net OPEB Liability

Year ended June 30, 2019 (In thousands)

	Ju	ne 30, 2019	Ju	ine 30, 2018
SEAD-OPEB:			-	
System's proportionate share of the net OPEB liability (asset)		0.200064 %		0.192864 %
System's proportionate share of the net OPEB liability (asset)	\$	(541)	\$	(501)
System's covered payroll		2,770		2,809
System's proportionate share of the net OPEB liability (asset) as a percentage of its covered payroll		(19.55)%		(17.85)%
Plan fiduciary net position as a percentage of the total OPEB liability		129.46 %		130.17 %
State OPEB Fund:				
System's proportion of the net OPEB liability		0.181584 %		0.185830 %
System's proportionate share of the net OPEB liability	\$	4,749	\$	7,571
System's covered payroll		5,415		5,265
System's proportionate share of the net OPEB liability as a percentage of its covered payroll		87.71 %		143.81 %
System's fiduciary net position as a percentage of the total OPEB liability		31.48 %		17.34 %

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

## **Required Supplementary Information (UNAUDITED)**

## Schedules of the System's Contributions to OPEB Plans

Year ended June 30, 2019 (In thousands)

	June	e 30, 2019 Jun	e 30, 2018
SEAD-OPEB:			
Contractually required contribution*	\$	— \$	—
Contributions in relation to the contractually required contribution			
Contribution deficiency (excess)			
System's covered payroll		2,567	2,770
Contributions as a percentage of a covered payroll		%	—%
State OPEB Fund:			
Contractually required contribution*	\$	1,012 \$	905
Contributions in relation to the contractually required contribution		1,012	905
Contribution deficiency (excess)			
System's covered payroll		5,578	5,415
Contributions as a percentage of a covered payroll		18.15%	16.71%

\*Employer contributions are not currently required for the SEAD-OPEB plan.

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

## Notes to Required Supplementary Information (UNAUDITED)

June 30, 2019

### Required Supplementary Information Schedules for the System as the Plan:

#### (1) Schedule of Employers' and Nonemployers' Contributions – Defined Benefit Plans

This schedule presents the required contributions and the percent of required contributions actually contributed.

#### (2) Schedule of Employers' and Nonemployers' Net Pension/OPEB Liability and Related Ratios – Defined Benefit Plans

The components of the net pension/OPEB liability as of the fiscal year end and the fiduciary net position as a percentage of the total pension/OPEB liability as of that date are presented in this schedule. This trend information will be accumulated to display a 10-year presentation.

#### (3) Schedule of Changes in Employers' and Nonemployers' Net Pension/OPEB Liability – Defined Benefit Plans

Net pension/OPEB liability, which is measured as total pension/OPEB liability less the amount of the fiduciary net position, is presented in this schedule. This trend information will be accumulated to display a 10-year presentation.

#### (4) Schedule of Investment Returns

This schedule presents historical trend information about the annual money-weighted rate of return on plan investments, net of plan investment expense. This trend information will be accumulated to display a 10-year presentation.

#### (5) Individual Plan Information

This note provides information about changes of benefit terms, changes of assumptions, and methods and assumptions used in calculations of actuarially determined contributions.

#### (a) Employees' Retirement System

#### Changes of benefit terms -

- A new benefit tier was added for members joining the System on and after July 1, 2009.
- A one-time 3% payment was granted to certain retirees and beneficiaries effective July 2016.
- A one-time 3% payment was granted to certain retirees and beneficiaries effective July 2017.
- Two one-time 2% payments were granted to certain retirees and beneficiaries effective July 2018 and January 2019.

*Changes of assumptions* – Subsequent to the June 30, 2017 measurement date, the ERS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the ERS Board's new funding policy, the assumed investment rate of return was reduced by 0.10% from 7.40% to 7.30% as of the June 30, 2018 measurement date.

## Notes to Required Supplementary Information (UNAUDITED)

June 30, 2019

#### (b) Public School Employees' Retirement System

*Changes of benefit terms* – The member contribution rate was increased from \$4 to \$10 per month for members joining the System on or after July 1, 2012. The monthly benefit accrual rate was increased from \$14.75 to \$15.00 per year of creditable service effective July 1, 2017. The monthly benefit accrual rate was increased from \$15.00 to \$15.25 per year of creditable service effective July 1, 2018.

*Changes of assumptions* – Subsequent to the June 30, 2017 measurement date, the PSERS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the PSERS Board's new funding policy, the assumed investment rate of return was reduced by 0.10% from 7.40% to 7.30% as of the June 30, 2018 measurement date.

#### (c) Legislative Retirement System

#### Changes of benefit terms - none

*Changes of assumptions* – Subsequent to the June 30, 2017 measurement date, the ERS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the ERS Board's new funding policy, the assumed investment rate of return was reduced by 0.10% from 7.40% to 7.30% as of the June 30, 2018 measurement date.

#### (d) Georgia Judicial Retirement System

*Changes of benefit terms* – Spouses' benefits were changed for members joining the System on and after July 1, 2012. A 2% cost-of-living adjustment was granted to certain retired members and beneficiaries effective July 1, 2016. A 2% cost-of-living adjustment was granted to certain retired members and beneficiaries effective July 1, 2018. A 2% cost-of-living adjustment was granted to certain retired members and beneficiaries effective July 1, 2018. A 2% cost-of-living adjustment was granted to certain retired members and beneficiaries effective July 1, 2018. A 2% cost-of-living adjustment was granted to certain retired members and beneficiaries effective July 1, 2018. A 2% cost-of-living adjustment was granted to certain retired members and beneficiaries effective July 1, 2019.

*Changes of assumptions* – Subsequent to the June 30, 2017 measurement date, the GJRS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the GJRS Board's new funding policy, the assumed investment rate of return was further reduced by 0.10% from 7.40% to 7.30% as of the June 30, 2018 measurement date.

#### (e) Georgia Military Pension Fund

#### Changes of benefit terms - none

*Changes of assumptions* – Subsequent to the June 30, 2017 measurement date, the ERS Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the ERS Board's new funding policy, the assumed investment rate of return was reduced by 0.10% from 7.40% to 7.30% as of the June 30, 2018 measurement date.

## Notes to Required Supplementary Information (UNAUDITED)

June 30, 2019

#### (f) State Employees' Assurance Department Retired and Vested Inactive Members Trust Fund (SEAD-OPEB) as a plan

Changes of benefit terms - none

*Changes of assumptions* – Subsequent to the June 30, 2017 measurement date, the SEAD Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for the June 30, 2017 actuarial valuation. In addition, based on the SEAD Board's new funding policy, the assumed investment rate of return was reduced by 0.10% from 7.40% to 7.30% as of the June 30, 2018 measurement date.

## Notes to Required Supplementary Information (UNAUDITED)

June 30, 2019

The following actuarial methods and assumptions were used to determine the most recent contribution rates reported in the schedules of employer and nonemployer contributions calculated as of June 30, three years prior to the end of the first calendar year in which contributions are reported:

	ERS	PSERS	LRS
Actuarial cost method	Entry age	Entry age	Entry age
Amortization method	Level dollar, closed	Level dollar, closed	Level dollar, open
Remaining amortization period	18.2 years	21.9 years	Infinite
Asset valuation method	Five-year smoothed fair	Five-year smoothed fair	Five-year smoothed fair
Inflation	2.75%	2.75%	2.75%
Salary increases	3.25 to 7.00%	n/a	n/a
Investment rate of return	7.50% net of pension plan investment expense, including inflation	7.50% net of pension plan investment expense, including inflation	7.50% net of pension plan investment expense, including inflation
Cost of living adjustments	none	1.50% Semi-annually	1.50% Semi-annually
	GJRS	GMPF	
Actuarial cost method	Entry age	Entry age	
Amortization method	Level percent of pay, closed	Level dollar, closed	
Remaining amortization period	17.8 years	17.3 years	
Asset valuation method	Five-year smoothed fair	Five-year smoothed fair	
Inflation	2.75%	2.75%	
Salary increases	4.50%	n/a	
Investment rate of return	7.50% net of pension plan investment expense, including inflation	7.50% net of pension plan investment expense, including inflation	
Cost of living adjustments	none	none	
	SEAD - OPEB		
Actuarial cost method	Entry age		
Amortization method	Level percent, open		
Remaining amortization period	Infinite		
Asset valuation method	Fair value of assets		
Inflation	2.75%		
Salary increases			
ERS	3.25-7.00%		
JRS	4.50%		
LRS	n/a		
Investment rate of return	7.50% net of pension plan investment expense, including inflation		
Cost of living adjustments	none		

## Notes to Required Supplementary Information (UNAUDITED)

June 30, 2019

### **Required Supplementary Information Schedules for the System as a participating employer:**

### (1) Schedules of the System's Proportionate Share of the Net OPEB Liability

The information in this schedule presents historical information related to the OPEB liability that is recognized by the System in the current period financial statements. This trend information will be accumulated to display a 10 year presentation.

#### (2) Schedules of the System's Contributions to OPEB Plans

This schedule presents the required contributions and the percent of required contributions actually contributed.

#### (3) Individual Plan Information

This note provides information about changes of benefit terms, changes of assumptions, and methods and assumptions used in calculations of actuarially determined contributions.

#### (a) SEAD-OPEB

Changes of benefit terms - none

Changes of assumptions – On December 17, 2015, the SEAD Board adopted recommended changes to the economic and demographic assumptions utilized by the Plan. Primary among the changes were the updates to rates of mortality, retirement, disability, withdrawal and salary increases. On March 15, 2018, the Board adopted a new funding policy. Because of this new funding policy, the assumed investment rate of return was reduced from 7.50% to 7.40% for June 30, 2017 actuarial valuation. In addition, based on the Board's new funding policy, the assumed investment rate of return was further reduced by 0.10% from 7.40% to 7.30% as of the June 30, 2018 Measurement Date.

#### (b) State OPEB Fund

Changes of benefit terms – In the June 30, 2010 actuarial valuation, there was a change of benefit terms to require Medicare-eligible recipients to enroll in a Medicare Advantage plan to receive the State subsidy.

Changes of assumptions – In the revised June 30, 2017 actuarial valuation, there was a change relating to employee allocation. Employees were previously allocated based on their Retirement System membership, and currently employees are allocated based on their current employer payroll location.

In the June 30, 2015 actuarial valuation, decremental and underlying inflation assumptions were changed to reflect the Retirement Systems' experience studies.

In the June 30, 2012 actuarial valuation, a data audit was performed and data collection procedures and assumptions were changed.

## **Additional Information**

## Statement of Changes in Assets and Liabilities - Survivors Benefit Fund

Year ended June 30, 2019 (In thousands)

	 Balance /30/2018	Additions	Deductions	Balance 6/30/2019
Assets:				
Cash and cash equivalents	\$ 91		5	86
Equity in pooled investment fund	 148,450	10,208		158,658
Total assets	 148,541	10,208	5	158,744
Liabilities:				
Due to other funds/plans	 148,541	10,208	(5)	158,744
Total liabilities	\$ 148,541	10,208	(5)	158,744

See accompanying independent auditors' report.

## **Additional Information**

## Schedule of Administrative Expenses - Contributions and Expenses

Year ended June 30, 2019

(In thousands)

Contributions from fiduciary funds:	
Employees' Retirement System	\$ 7,14
Public School Employees Retirement System	1,37
Legislative Retirement System	29
Georgia Judicial Retirement System	82
Georgia Military Pension Fund	23
Superior Court Judges Retirement Fund	
District Attorneys Retirement Fund	
Georgia Defined Contribution Plan	88
401(k) Plan	3,43
457 Plan	72
State Employees' Assurance Department - OPEB	71
Total fiduciary funds	15,62
Contributions from proprietary fund:	
State Employees' Assurance Department Active Members Fund	
Total contributions	15,70
-	
Expenses: Personal services:	
Salaries and fringes	5,58
Retirement contributions	1,30
FICA	40
Health insurance	22
Miscellaneous	
	7,56
Communications:	25
Postage	
Publications and printing	
Telecommunications Travel	9 1
ITavei	37
Professional services:	
Accounting services	71
Computer services	87
Contracts	3,69
Actuarial services	29
Medical services	11
Audit fees	36
Legal services	2
	6,08
Management fees:	
Building maintenance	63
Other services and charges:	
Temporary services	56
Supplies and materials	8
Repairs and maintenance	2
Courier services	
Depreciation	29
Miscellaneous	7
Office equipment	
• •	1,03
Total expenses	15,70

See accompanying independent auditors' report.