

**GWINNETT COUNTY PUBLIC
EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN
(A PENSION TRUST FUND OF GWINNETT
COUNTY, GEORGIA)**

ANNUAL FINANCIAL REPORT

**FOR THE YEAR ENDED
DECEMBER 31, 2018**

**GWINNETT COUNTY PUBLIC EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN**

**ANNUAL FINANCIAL REPORT
FOR THE YEAR ENDED DECEMBER 31, 2018**

TABLE OF CONTENTS

	<u>Page</u>
INDEPENDENT AUDITOR'S REPORT	1 and 2
MANAGEMENT'S DISCUSSION AND ANALYSIS.....	3-6
BASIC FINANCIAL STATEMENTS	
Statement of Fiduciary Net Position.....	7
Statement of Changes in Fiduciary Net Position	8
Notes to Financial Statements	9-21
REQUIRED SUPPLEMENTARY INFORMATION	
Schedule of Changes in the County's Net Pension Liability and Related Ratios	22
Schedule of County Contributions	23
Schedule of Pension Investment Returns.....	24
INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS.....	25 and 26
SCHEDULE OF FINDINGS AND RESPONSES	27



INDEPENDENT AUDITOR'S REPORT

**To the Members of the Retirement Plans
Management Committee of the Gwinnett County
Public Employees Retirement System
Lawrenceville, Georgia**

Report on the Financial Statements

We have audited the accompanying financial statements of the **Gwinnett County Public Employees Retirement System Defined Benefit Pension Plan (the "Plan")** as of and for the year ended December 31, 2018, and the related notes to the financial statements, which collectively comprise the Plan's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

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

Auditor's Responsibility

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

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

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the Gwinnett County Public Employees Retirement System Defined Benefit Pension Plan as of December 31, 2018, and the changes in fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters*Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis, Schedule of Changes in the County's Net Pension Liability and Related Ratios, Schedule of County Contributions, and Schedule of Pension Investment Returns, on pages 3 through 6, page 22, page 23, and page 24, respectively, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated May 22, 2019 on our consideration of the Plan'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 Plan'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 Plan's internal control over financial reporting and compliance.



Atlanta, Georgia

May 22, 2019

**GWINNETT COUNTY
PUBLIC EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN**

MANAGEMENT'S DISCUSSION AND ANALYSIS

Year Ended December 31, 2018

Within this section of the Gwinnett County Public Employees Retirement System Defined Benefit Pension Plan annual financial report, County management provides a narrative overview and analysis of the financial activities of the Gwinnett County Defined Benefit (DB) Pension Plan (the "Plan"). The financial performance of the Plan is discussed and analyzed within the context of the accompanying financial statements and disclosures following this section. The DB Plan is accounted for in a pension trust fund, which was established effective January 1, 2007, by a resolution of the Gwinnett County Board of Commissioners (the BoC).

Financial Highlights

- Fiduciary net position reported in the financial statements is \$965,241,000 as of the fiscal year ended December 31, 2018. This is a decrease of \$77,965,000 from December 31, 2017.
- The fair value of plan investments at December 31, 2018, is \$938,436,000. These are assets restricted for payment of future retirement benefits to plan members.
- The Plan's funded ratio of the Plan fiduciary net position to the Total Pension Liability at December 31, 2018, is 72.32%.
- Effective January 1, 2007, the DB Pension Plan was closed to new hires. Full time employees hired or rehired after that date are required to join the County's Defined Contribution Plan. Existing DB Plan members will continue to contribute and accrue benefits.

Basic Financial Statements

Management's Discussion and Analysis introduces the basic financial statements for the Plan. The basic financial statements include: (1) statement of fiduciary net position, (2) statement of changes in fiduciary net position, and (3) notes to the financial statements. This report also includes required additional information to supplement the basic financial statements.

The first of these basic financial statements is the *Statement of Fiduciary Net Position*. This statement presents information that includes plan assets and liabilities, with the difference reported as *net position restricted for pension benefits*. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of the Plan as a whole is improving or deteriorating, however, as a closed plan, the net position will eventually decrease as the benefit obligations are met.

The second plan statement is the *Statement of Changes in Fiduciary Net Position*, which reports how the fiduciary net position changed during the current fiscal year. All current year revenue and expenses are included regardless of when cash is received or paid. Realized gains and losses on investment sales and unrealized gains and losses due to market value appreciation or depreciation are included as investment income of the Plan.

The Plan's assets are held in trust funds of the BoC, which fall under the category of fiduciary funds. Resources of those funds are not available to support County programs but are held in trust to pay benefits and associated costs to and on behalf of eligible retirees. The accounting used for fiduciary funds is much like that used for proprietary funds.

Financial Analysis

As shown in the Summary of Fiduciary Net Position below, the net position restricted for pension benefits is \$965,241,000.

The table below provides a summary of fiduciary net position (in thousands):

	Summary of Fiduciary Net Position		
	December 31, 2018	December 31, 2017	December 31, 2016
Current and other assets	\$ 90,416	\$ 132,907	\$ 174,906
Investments	938,436	997,848	825,542
Total assets	1,028,852	1,130,755	1,000,448
Total liabilities	63,611	87,549	74,597
Net position	\$ 965,241	\$ 1,043,206	\$ 925,851

Employer contributions of \$41,633,000 were made to the Plan in 2018. The actuarially recommended employer contribution was \$41,102,477.

Employee contributions to the Plan are made on a pre-tax basis by plan members based on the actuarially recommended contribution. The Plan's benefit payments for 2018 totaled \$70,723,000.

The table below provides a summary of changes in fiduciary net position (in thousands):

Summary of Changes in Fiduciary Net Position

	Year Ended December 31, 2018	Year Ended December 31, 2017	Year Ended December 31, 2016
Additions:			
Net investment income (loss)	\$ (54,537)	\$ 140,526	\$ 56,004
Contributions:			
Employer	41,633	38,366	28,036
Employee	6,419	6,441	6,652
Total additions	<u>(6,485)</u>	<u>185,333</u>	<u>90,692</u>
Deductions:			
Benefit payments	70,723	67,254	63,539
Other expenses	757	724	818
Total deductions	<u>71,480</u>	<u>67,978</u>	<u>64,357</u>
Net increase (decrease)	(77,965)	117,355	26,335
Net position, January 1	<u>1,043,206</u>	<u>925,851</u>	<u>899,516</u>
Net position, December 31	<u>\$ 965,241</u>	<u>\$ 1,043,206</u>	<u>\$ 925,851</u>

The Plan's gross return on investments for 2018 was (5.06%). The return, net of investment expenses, was (5.47%). The overall plan benchmark rate for 2018 was (5.81%). The chart below reflects how the Plan's investments performed compared to their benchmarks in each major category, and the target and actual year-end asset allocations for each category.

Financial Market Performance Summary
(Annual Gross Rate of Return % for 2018)

<u>Benchmark Index</u>	<u>Index %</u>	<u>Gwinnett %</u>	<u>Asset Allocation</u>	
			<u>Target %</u>	<u>Year-end %</u>
Russell 1000 Value	(8.27)	--	12.5	12.3
Barrow	--	(4.56)	--	--
London	--	(2.18)	--	--
S&P 500 Index	(4.38)	(4.35)		
Russell 1000 Growth	(1.15)	--	12.5	14.0
TWC	--	2.93	--	--
Columbia	--	(3.47)	--	--
Russell Mid Cap Core	(9.06)	(17.60)	3.75	3.2
Russell Mid Cap Value	(12.29)	(14.80)	3.75	3.2
Russell 2000	(11.01)	1.71	7.5	9.2
International Equity Blend	(14.14)	(13.25)	10.0	12.5
Emerging Markets	(14.58)	--	5.0	2.8
Oppenheimer	--	(11.79)	--	--
Brandes	--	(15.57)	--	--
Barclays Aggregate	(.01)	--	20.0	22.4
Voya	--	.38	--	--
Ryan Labs	--	(.23)	--	--
NAREIT	(4.04)	(4.51)	5.0	4.1
GC World Gov Bonds	(.84)	1.44	2.5	2.4
BC Global Agg Ex US	(2.15)	(5.79)	2.5	2.2
Alternate Global Allocation	<u>(5.21)</u>	<u>(10.19)</u>	<u>10.0</u>	<u>9.1</u>
Total Plan Benchmark	(5.81)	(5.06)	100.0	100.0

Contacting the Plan's Financial Management

This financial report is designed to provide a general overview of the Plan's finances, comply with finance-related laws and regulations, and demonstrate commitment to public accountability. If you have questions about this report or would like to request additional information, contact Maria Woods, CFO/Director of Financial Services, Gwinnett County Department of Financial Services, 75 Langley Drive, Lawrenceville, Georgia 30046.

**GWINNETT COUNTY PUBLIC EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN**

**STATEMENT OF FIDUCIARY NET POSITION
DECEMBER 31, 2018**

(In Thousands of Dollars)

Assets

Cash and cash equivalents	\$ <u>21,203</u>
Investments at fair value:	
U.S. treasury bonds	39,393
Asset-backed securities	12,247
U.S. governmental agencies	43,432
Commercial mortgage-backed securities	8,108
Corporate bonds	54,993
Collateralized mortgage obligations	14,194
Corporate equities	491,488
International equities	186,960
Preferred stock	2,561
Global fixed income	<u>85,060</u>
Total investments	938,436
Securities lending collateral investment pool	62,552
Prepaid benefit payment	<u>6,661</u>
Total assets	<u>1,028,852</u>

Liabilities

Accounts payable	1,059
Liability for securities lending agreement	<u>62,552</u>
Total liabilities	<u>63,611</u>

Net position restricted for pension benefits \$ 965,241

See Notes to Financial Statements.

**GWINNETT COUNTY PUBLIC EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN**

**STATEMENT OF CHANGES IN FIDUCIARY NET POSITION
FOR THE YEAR ENDED DECEMBER 31, 2018**

(In Thousands of Dollars)

Additions	
Contributions:	
Employer	\$ 41,633
Employee	6,419
Total contributions	48,052
 Investment income (loss):	
Net decrease in the fair value of investments	(74,270)
Securities lending income	105
Interest and dividends	23,855
	(50,310)
Less - Investment expense	(4,215)
Securities lending expense	(12)
Net investment loss	(54,537)
Total additions	(6,485)
 Deductions	
Benefits paid	70,723
Administrative expenses	757
Total deductions	71,480
Net decrease in fiduciary net position	(77,965)
 Net position restricted for pension benefits	
Beginning of year	1,043,206
End of year	\$ 965,241

See Notes to Financial Statements.

**GWINNETT COUNTY PUBLIC EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 2018**

NOTE 1. DESCRIPTION OF THE PLAN

The Gwinnett County Public Employees Retirement System (the “Plan”) is a single-employer defined benefit pension plan. The present plan covers all employees of Gwinnett County who are members of the Defined Benefit Pension Plan. The Plan was created as a successor to a previous plan by action of the Board of Commissioners on September 19, 2006. The Retirement Plans Management Committee, composed of seven members who serve without compensation by the Plan, is the Trustee of the Plan. The members of the Retirement Plans Management Committee are the County Administrator (by position), the County Director of Financial Services (by position), the County Director of Human Resources (by position), a citizen of the County (not a participant in the Plan) appointed by the County Board of Commissioners, two County employees appointed by the County Administrator, and one general member appointed by the County Administrator. The Bank of New York Mellon is the Custodian for the Plan. Transamerica is the Third Party Administrator of the Plan. Benefit provisions and contribution requirements are established and may be amended by the Retirement Plans Management Committee, subject to approval by the Gwinnett County Board of Commissioners.

General

The following brief description of the pension plan terms is provided for general information purposes only. Participants should refer to the Plan agreement for more complete information.

Gwinnett County previously participated in the agent-multiple employer Association County Commissioners of Georgia Defined Benefit Plan and the Association County Commissioner of Georgia Defined Benefit Plan Master Trust Agreement sponsored by the Association of County Commissioners of Georgia. Having determined that it was in the best interest of the County and plan participants and beneficiaries, the County established the Gwinnett County Defined Benefit Plan, effective January 1, 2007, as a single employer, locally governed plan for the benefit of its employees and other eligible individuals as provided for in the Plan Document. Assets held in the Association County Commissioner of Georgia Defined Benefit Plan Master Trust for the benefit of Gwinnett County Employees were transferred to the Plan in 2007.

NOTES TO FINANCIAL STATEMENTS

NOTE 1. DESCRIPTION OF THE PLAN (CONTINUED)

Contributions

Gwinnett County is required to contribute an actuarially determined amount annually to the Plan's trust. The required contribution amount is determined using actuarial methods and assumptions approved by the Retirement Plans Management Committee. It is intended to satisfy the minimum contribution requirements as set forth in controlling State of Georgia statutes. Effective for the January 1, 2018 plan year, the recommended contribution for the County was set at \$41,102,177 and the County contributed \$41,633,000. The actuarially determined contribution for employees was set at \$6,530,000.

Retirement Options/Benefit Provisions

Normal retirement age under the Plan is 65. Employees having an employment or reemployment date prior to November 1, 2004, become fully vested after three years of service. Employees having an employment or reemployment date after November 1, 2004, become fully vested after five years of service.

Early retirement means the following when a Participant becomes eligible:

- a. *Schedule A*: A participant accruing benefits under Schedule A shall be entitled to an unreduced early retirement pension upon the completion of thirty years of vesting service or attains 65 years of age with at least 5 years of participation. A Participant accruing benefits under Schedule A will be entitled to a reduced early retirement pension on the latter of the date he attains sixty years of age and completes ten years of service.
- b. *Schedule B or C*: A participant accruing benefits under Schedule B or Schedule C shall be entitled to an unreduced early retirement pension on the earlier of the following dates; (1) the Participant completes 30 years of vesting service; or (2) latter of the date (a) he attains 50 years of age and (b) his age, combined with his years of vesting service, equals or exceeds seventy-five or he attains age 65 with 5 years of participation. A Participant accruing benefits under Schedule B or Schedule C will be entitled to a reduced early retirement pension on the latter of the date he attains 60 years of age and completes ten years of service.

Normal retirement benefits are based on a participant's average monthly compensation for the highest 60 consecutive months of credited service out of the employee's last 120 months of credited service prior to termination of employment. The normal retirement factor is 2.25% of the Participant's average monthly compensation multiplied by years of full-time credited service for Schedule A and B.

NOTES TO FINANCIAL STATEMENTS

NOTE 1. DESCRIPTION OF THE PLAN (CONTINUED)

Retirement Options/Benefit Provisions (continued)

The normal retirement factor is 2.5% of the Participant's average monthly compensation multiplied by years of full-time credited service for Schedule C.

Participants who retire will receive a cost of living increase as follows:

- a. *Schedule A*: There is no cost of living adjustment for benefits provided under Schedule A.
- b. *Schedule B or C*: A Participant receiving retirement, disability pension, survivor, or deferred vested benefits under the provisions of any of the Employee Contributory Plans shall be entitled to a cost of living adjustment of his benefit in the amount of one percent per year.

A Participant who, prior to satisfying the requirements for a normal, early or reduced retirement pension shall be entitled to receive a *Disability Pension* if the Participant has completed ten years of full-time service and is determined to be totally disabled by the Social Security Administration prior to the Participant's termination of employment.

Joint and Survivor retirement benefits to a participant's designated beneficiary are provided by the Plan, as well as a *ten years certain* benefit option.

A *Postretirement Death Benefit* of up to \$15,000 (payable in a lump sum) is provided for each participant receiving an early, reduced, normal, or late retirement pension, who retires directly from County employment.

Eligibility

Full-time employees with an employment or reemployment commencement date before December 31, 2006 who did not elect to participate in the Defined Contribution Plan are eligible to participate in the Plan.

Employees hired or rehired after January 1, 2007; County Commissioners, other Elected Officials and Appointed Officials with an employment or reemployment date after August 1, 2000; and employees who elected to participate in the Defined Contribution Plan are excluded from participation in the Defined Benefit Plan. The Defined Benefit Plan is closed to new entrants.

NOTES TO FINANCIAL STATEMENTS

NOTE 1. DESCRIPTION OF THE PLAN (CONTINUED)

Fund Membership

The following schedule reflects membership for the Plan as of January 1, 2018.

Inactive members or beneficiaries currently receiving benefits	2,291
Inactive members entitled to but not receiving benefits	806
Active members	1,320
Total	<u>4,417</u>

NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The Plan's significant accounting policies are as follows:

Basis of Accounting

The financial statements of the Plan are prepared under the accrual method of accounting. Contributions are paid and based on payrolls for time worked through December 31 each year.

Cash and Cash Equivalents

The Plan considers all depository accounts, money market depository accounts, and un-invested cash in investment trust account to be cash equivalents.

Valuation of Investments

Investments are recorded at fair value. The net appreciation (depreciation) in the fair value of investments held by the Plan is recorded as an increase (decrease) to investment income based on the valuation of investments as of the statement of fiduciary net position date. Investment income is recognized on the accrual basis as earned by the Plan.

Payment of Benefits

Benefits to retired participants are recorded when due in accordance with the terms of the Plan.

NOTES TO FINANCIAL STATEMENTS

NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Management Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

NOTE 3. DEPOSITS AND INVESTMENTS

The Plan's policy in regard to investments, including the allocation of invested assets, is established and may be amended by the Retirement Plans Management Committee by a majority vote of its members. The Plan is authorized to invest in obligations of the United States Treasury or its agencies and instrumentalities, collateralized mortgage obligations, asset and mortgage-backed securities, taxable bonds that are obligations of any state and its agencies, instrumentalities, and political subdivisions, and in certificates of deposit of national or state banks that are fully insured or collateralized by United States obligations.

Additionally, the Plan is authorized to invest in common stocks, money market instruments, and corporate bonds and debentures, which are not in default as to principal and interest.

NOTES TO FINANCIAL STATEMENTS

NOTE 3. DEPOSITS AND INVESTMENTS (CONTINUED)

As of December 31, 2018, the Plan had \$938,436,000 invested in the following types of investments (dollars in thousands) as categorized by credit risk:

Investment	Fair Value	Credit Quality
U.S. treasury bonds	\$ 39,393	AA
Asset-backed securities	2,174	AAA
Asset-backed securities	2,231	AA
Asset-backed securities	2,778	BBB
Asset-backed securities	4	B
Asset-backed securities	5,060	-
U.S. government agencies	34,517	AA
U.S. government agencies	8,915	-
Commercial mortgage-backed securities	1,641	AAA
Commercial mortgage-backed securities	1,918	AA
Commercial mortgage-backed securities	430	A
Commercial mortgage-backed securities	4,119	-
Corporate bonds	310	AAA
Corporate bonds	2,223	AA
Corporate bonds	15,369	A
Corporate bonds	34,949	BBB
Corporate bonds	534	BB
Corporate bonds	1,608	-
Collateralized mortgage obligations	491	AAA
Collateralized mortgage obligations	11,445	AA
Collateralized mortgage obligations	50	A
Collateralized mortgage obligations	133	BBB
Collateralized mortgage obligations	2,075	-
Corporate equities	491,488	-
International equities	186,960	-
Preferred stock	68	A
Preferred stock	425	BBB
Preferred stock	2,068	-
Global fixed income	4,820	AAA
Global fixed income	1,328	AA
Global fixed income	5,097	A
Global fixed income	8,040	BBB
Global fixed income	176	BB
Global fixed income	65,599	-
Total	<u>\$ 938,436</u>	

NOTES TO FINANCIAL STATEMENTS

NOTE 3. DEPOSITS AND INVESTMENTS (CONTINUED)

Credit Risk – It is the Plan’s policy to limit investments in common or preferred stock of a corporation to those corporations listed on one or more of the recognized national stock exchanges in the United States of America, or those traded on the NASDAQ National Market. The policy also limits stock investments to not more than 5% of the assets of any fund in common or preferred stock of any one issuing corporation. Domestic bonds are limited to those with ratings that meet or exceed investment grade as defined by Moody’s, S&P, or Fitch. U.S. Government Treasuries and Agency bonds are not classified by credit quality. Corporate equities, international equities, and related mutual funds invested in equities are also not classified by credit quality.

Concentration – On December 31, 2018, the Plan did not have debt or equity investments in any one organization, other than those issued by the U.S. Government, which represented greater than 5% of plan fiduciary net position.

Interest Rate Risk – As of December 31, 2018, the Plan had \$938,436,000 invested in the following types of investments (dollars in thousands) as categorized by interest rate risk:

Investment	Fair Value	Weighted Average Maturity (Years)
U.S. Treasury bonds	\$ 39,393	14.68
Asset-backed securities	12,247	6.49
U.S. government agencies	43,432	17.97
Commercial mortgage-backed securities	8,108	29.86
Corporate bonds	54,993	10.42
Collateralized mortgage obligations	14,194	18.44
Corporate equities	491,488	---
International equities	186,960	---
Preferred stock	2,561	26.01
Global fixed income	85,060	---
Total	<u>\$ 938,436</u>	

NOTES TO FINANCIAL STATEMENTS

NOTE 3. DEPOSITS AND INVESTMENTS (CONTINUED)

The Plan investment policy adopts the following asset mix to achieve the lowest level of risk for the Plan: Equity Securities between 50% and 70% at market value, and Fixed Income Securities between 25% and 50% and between 0% and 5% in Alternative Investments. Fixed income securities are indexed to Barclays Capital U.S. Aggregate. As of December 31, 2018, the Fixed Income Assets had an effective duration of 5.77 years compared to the Barclays Capital U.S. Aggregate of 5.80 years. The weighted average yield to maturity of the portfolio was 3.53% compared to the Barclays Aggregate of 3.28%. Corporate equities, international equities, and related mutual funds invested in equities are also not classified by interest rate risk.

Foreign Currency Risk – At December 31, 2018, \$186,960,000 or 19.9% of Retirement Plan Investment Assets had exposure of foreign currency risk through investments in foreign companies. The international equities by related currency (dollars in thousands) are as follows:

Investment	Amount
British Pound	\$ 59,128
Canadian Dollar	4,699
Australian Dollar	463
Euro	2,052
Swiss Franc	5,301
U.S. Dollars invested in mutual funds with only international equity holdings	115,317
Total	\$ 186,960

Rate of Return – For the year ended December 31, 2018, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was (5.47%). The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Custodial Credit Risk – Deposits. Custodial credit risk for deposits is the risk that in the event of a bank failure, the Plan may not be able to recover its deposits.

NOTES TO FINANCIAL STATEMENTS

NOTE 3. DEPOSITS AND INVESTMENTS (CONTINUED)

Securities Lending. State statutes and management committee policies permit the Plan to lend its securities to broker-dealers and other entities with a simultaneous agreement to return the collateral for the same securities in the future. The Plan's custodians lend securities of the type on loan at year-end for collateral in the form of cash or other securities of 102%. The cash collateral is available to the Plan for investment without default.

Cash collateral is invested in overnight investments. At year-end, the Plan has no significant credit risk exposure to borrowers because the amounts the Plan owed the borrowers exceeded the amounts the borrowers owed the Plan. The contract with the Plan's custodian requires it to indemnify the Plan if the borrowers fail to return the securities and if the collateral is inadequate to replace the securities loaned or fail to pay the Plan for income distributions by the securities' issuers while the securities are on loan.

There were no borrower or lending agent default losses and no recoveries of prior period losses during the year. There are no income distributions owing on the securities loaned. The Plan records the cash received as collateral under securities lending agreements and the investments purchased with that cash as securities lending short-term collateral investment pool with a corresponding amount recorded as a liability.

NOTES TO FINANCIAL STATEMENTS

NOTE 3. DEPOSITS AND INVESTMENTS (CONTINUED)

Fair Value Measurements: The Plan categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; and Level 3 inputs are significant unobservable inputs.

The Plan has the following recurring fair value measurements as of December 31, 2018:

Investment	Level 1	Level 2	Level 3	Fair Value
U.S. treasury bonds	\$ 39,393	-	-	\$ 39,393
Asset-backed securities	-	12,247	-	12,247
U.S. government agencies	-	43,432	-	43,432
Commercial mortgage-backed securities	-	8,108	-	8,108
Corporate bonds	-	54,993	-	54,993
Collateralized mortgage obligations	-	14,194	-	14,194
Corporate equities	427,594	63,894	-	491,488
International equities	184,174	2,786	-	186,960
Preferred stock	2,068	493	-	2,561
Global fixed income	85,060	-	-	85,060
Total	<u>\$ 738,289</u>	<u>200,147</u>	<u>-</u>	<u>\$ 938,436</u>

The U.S. treasury bonds, corporate equities, international equities, preferred stock, and global fixed income investments classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those investments.

The investments in asset-backed securities, U.S. government agencies, commercial mortgage-backed securities, corporate bonds, collateralized mortgage obligations, corporate equities, international equities, and preferred stock classified as Level 2 on the fair value hierarchy are valued using a matrix pricing technique. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices.

NOTES TO FINANCIAL STATEMENTS

NOTE 4. NET PENSION LIABILITY OF THE COUNTY

The components of the net pension liability of the County at December 31, 2018, were as follows:

Total pension liability	\$	1,334,621,024
Plan fiduciary net position		<u>(965,241,000)</u>
County's net pension liability	\$	<u>369,380,024</u>
Plan fiduciary net position as a percentage of the total pension liability		72.3%

The required schedule of changes in the County's net pension liability and related ratios immediately following the notes to the financial statements presents multiyear trend information about whether the value of plan assets is increasing or decreasing over time relative to the total pension liability.

Actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future, and actuarially determined amounts are subject to continual revision as results are compared to past expectations and new estimates are made about the future. Actuarial calculations reflect a long-term perspective. Calculations are based on the substantive plan in effect as of January 1, 2018, and on the current pattern of sharing of costs between the employer and Plan members to that point. The total pension liability was determined by an actuarial valuation as of January 1, 2018, with update procedures performed by the actuary to roll forward to the total pension liability measured as of December 31, 2018.

The assumptions used in the January 1, 2018, actuarial valuation are as follows.

Actuarial Methods and Assumptions

Actuarial Cost Method	Entry Age Normal
Long-term Expected Rate of Return On Investments	7.0% (includes inflation of 3.0% and net of pension plan investment expense)
Projected Salary Increases	4.5%-5.5% (includes inflation of 4.0%)
Cost-of-living Adjustment	1.0%

NOTES TO FINANCIAL STATEMENTS

NOTE 4. NET PENSION LIABILITY OF THE COUNTY (CONTINUED)

Actuarial Methods and Assumptions (continued)

Mortality rates were based on the following:

Pre-Retirement Mortality: 1983 Group Annuity Mortality Table multiplied by 50% for males and the 1983 Group Annuity Mortality Table for females.

Postretirement Health Mortality: 1994 Group Annuity Mortality Static Table Projected to 2001 using scale AA for males and females.

Postretirement Disability Mortality: 1994 Group Annuity Mortality Static Table Projected to 2001 using scale AA for males and females.

The actuarial assumptions used in the January 1, 2018, valuation were based on the results of an actuarial experience study dated January 27, 2010.

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 expenses and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

Best estimates of the arithmetic real rates of return for each major asset class included in the pension Plan's target asset allocation as of January 1, 2018, are summarized in the following table:

<u>Asset Class</u>	<u>Target Allocation</u>	<u>Long-Term Expected Real Rate of Return *</u>
U.S. Large Cap Equities	30.0%	5.10%
U.S. Mid Cap Equities	7.5%	5.40%
U.S. Small Cap Equities	7.5%	5.60%
International	10.0%	6.40%
Global Allocation	10.0%	5.70%
Real Estate	5.0%	6.70%
Emerging Markets	5.0%	7.80%
U.S. Fixed Income	20.0%	1.70%
Global Fixed Income	5.0%	2.00%
Cash	0.0%	0.70%
Total	<u>100.0%</u>	

* Returns are net of inflation of 2.1%.

NOTES TO FINANCIAL STATEMENTS

NOTE 4. NET PENSION LIABILITY OF THE COUNTY (CONTINUED)

Discount Rate

The discount rate used to measure the total pension liability was 7.00%. The projection of cash flow used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that the County will contribute the actuarially determined amount in subsequent years. Based on those assumptions, the pension Plan's fiduciary net position was projected to be available to make projected future benefit payment of all current Plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all of the future projected benefit payments to determine the total pension liability.

Sensitivity of the net pension liability to changes in the discount rate. The following presents the net pension liability of the County, calculated using the discount rate of 7.00%, as well as what the County's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.00%) or 1-percentage-point higher (8.00%) than the current rate:

	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
County's net pension liability	\$ 522,723,830	\$ 369,380,024	\$ 240,369,675

REQUIRED SUPPLEMENTARY INFORMATION

**GWINNETT COUNTY PUBLIC EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN
REQUIRED SUPPLEMENTARY INFORMATION
(Unaudited)**

SCHEDULE OF CHANGES IN THE COUNTY'S NET PENSION LIABILITY AND RELATED RATIOS

	2018	2017	2016	2015	2014
Total pension liability					
Service cost	\$ 11,728,541	\$ 12,020,213	\$ 12,412,610	\$ 10,381,274	\$ 11,390,525
Interest on total pension liability	88,705,986	85,243,898	82,914,571	81,012,571	77,618,099
Differences between expected and actual experience	14,048,173	21,474,452	3,737,820	17,980,851	-
Changes of assumptions	-	-	-	121,861,698	-
Benefit payments, including refunds of employee contributions	(70,723,000)	(67,254,000)	(63,539,000)	(59,323,000)	(54,595,000)
Net change in total pension liability	43,759,700	51,484,563	35,526,001	171,913,394	34,413,624
Total pension liability - beginning	1,290,861,324	1,239,376,761	1,203,850,760	1,031,937,366	997,523,742
Total pension liability - ending (a)	<u>\$ 1,334,621,024</u>	<u>\$ 1,290,861,324</u>	<u>\$ 1,239,376,761</u>	<u>\$ 1,203,850,760</u>	<u>\$ 1,031,937,366</u>
Plan fiduciary net position					
Contributions - employer	\$ 41,633,000	\$ 38,366,000	\$ 28,036,000	\$ 33,636,000	\$ 48,713,000
Contributions - employee	6,419,000	6,441,000	6,652,000	6,852,000	7,264,000
Net investment income	(54,537,000)	140,526,000	56,004,000	(2,182,000)	58,212,000
Benefit payments, including refunds of employee contributions	(70,723,000)	(67,254,000)	(63,539,000)	(59,323,000)	(54,595,000)
Administrative expenses	(757,000)	(724,000)	(818,000)	(638,000)	(878,000)
Net change in plan fiduciary net position	(77,965,000)	117,355,000	26,335,000	(21,655,000)	58,716,000
Plan fiduciary net position - beginning	1,043,206,000	925,851,000	899,516,000	921,171,000	862,455,000
Plan fiduciary net position - ending (b)	<u>\$ 965,241,000</u>	<u>\$ 1,043,206,000</u>	<u>\$ 925,851,000</u>	<u>\$ 899,516,000</u>	<u>\$ 921,171,000</u>
County's net pension liability - ending (a) - (b)	<u>\$ 369,380,024</u>	<u>\$ 247,655,324</u>	<u>\$ 313,525,761</u>	<u>\$ 304,334,760</u>	<u>\$ 110,766,366</u>
Plan fiduciary net position as a percentage of the total pension liability	72.3%	80.8%	74.7%	74.7%	89.3%
Covered payroll	\$ 94,533,136	\$ 94,048,000	\$ 97,303,000	\$ 104,557,120	\$ 109,081,662
County's net pension liability as a percentage of covered payroll	390.7%	263.3%	322.2%	291.1%	101.5%

Notes to the Schedule

**GWINNETT COUNTY PUBLIC EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN
REQUIRED SUPPLEMENTARY INFORMATION
(Unaudited)**

**SCHEDULE OF COUNTY CONTRIBUTIONS
(\$ in thousands)**

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Actuarially determined employer contribution	\$ 41,102	\$ 37,945	\$ 28,036	\$ 33,636	\$ 38,713	\$ 37,281	\$ 36,181	\$ 37,563	\$ 27,506	\$ 22,919
Actual County contributions	41,633	38,366	28,036	33,636	48,713	57,281	55,181	64,063	60,947	37,535
Contribution deficiency (excess)	\$ (531)	\$ (421)	\$ -	\$ -	\$ (10,000)	\$ (20,000)	\$ (19,000)	\$ (26,500)	\$ (33,441)	\$ (14,616)
Covered payroll	94,553	94,048	97,303	104,557	109,082	110,766	116,610	128,215	132,626	164,392
Actual contributions as a percentage of covered payroll	44.0%	40.8%	28.8%	32.2%	44.7%	51.7%	47.3%	50.0%	46.0%	22.8%

Notes to the Schedule / Assumption Utilized

Valuation Date	January 1, 2017
Cost Method	Projected Unit Credit
Actuarial Asset Valuation Method	Five year smoothed market value
Assumed Rate of Return	
On Investments	7% (including 3.0% for inflation)
Projected Salary Increases	4.5%-5.5% (including 4.0% for inflation)
Cost-of-living Adjustment	1.00%
Amortization Method	Closed level dollar for unfunded liability
Remaining Amortization Period	16 years

**GWINNETT COUNTY PUBLIC EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN
REQUIRED SUPPLEMENTARY INFORMATION
(Unaudited)**

SCHEDULE OF PENSION INVESTMENT RETURNS

	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>	<u>2014</u>
Annual money-weighted rate of return, net of investment expenses for the County's Pension Plan	-5.47%	15.75%	6.45%	-0.27%	6.79%

Note to the Schedule

The schedule will present 10 years of information once it is accumulated.



**INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL
REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT
OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE
WITH GOVERNMENT AUDITING STANDARDS**

**To the Members of the Retirement Plans
Management Committee of the Gwinnett County
Public Employees Retirement System
Lawrenceville, Georgia**

We have audited, in accordance with the 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, the financial statements of the **Gwinnett County Public Employees Retirement System Defined Benefit Pension Plan** (the "Plan"), as of and for the year ended December 31, 2018, and the related notes to the financial statements, which collectively comprise the Plan's basic financial statements, and have issued our report thereon dated May 22, 2019.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Plan's internal control over financial reporting ("internal control") to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, we do not express an opinion on the effectiveness of the Plan's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Plan's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

A handwritten signature in black ink that reads "Mauldin & Jenkins, LLC". The signature is written in a cursive, flowing style.

Atlanta, Georgia
May 22, 2019

**GWINNETT COUNTY PUBLIC EMPLOYEES RETIREMENT SYSTEM
DEFINED BENEFIT PENSION PLAN**

**SCHEDULE OF FINDINGS AND RESPONSES
FOR THE YEAR ENDED DECEMBER 31, 2018**

**SECTION I
SUMMARY OF AUDIT RESULTS**

Financial Statements

Type of auditor's report issued

Unmodified

Internal control over financial reporting:

Material weaknesses identified?

yes no

Significant deficiencies identified not considered
to be material weaknesses?

yes none reported

Noncompliance material to financial statements noted?

yes no

Federal Awards

There was not an audit of major federal award programs as of December 31, 2018, due to the total amount expended being less than \$750,000.