



Section VIII – Risk Assessment

Mortality Risk

The mortality assumption is a significant assumption for valuation results, second only to the investment assumption in most situations. The System's mortality assumption utilizes a mortality table (with separate rates for males and females, as well as different rates by status) and a projection scale for how the mortality table is expected to improve through time.

The future, however, is not known, and actual mortality improvements may occur at a faster rate than expected, or at a slower rate than expected (or even decline). Although changes in mortality will affect the benefits paid, this assumption is carefully studied during the regular experience studies that the System conducts so that incremental changes can be made to smoothly reflect unfolding experience. The next experience study will be completed for the period July 1, 2014 – June 30, 2019.

Contribution Risk

The System is primarily funded by member and employer contributions to the trust fund, together with the earnings on those accumulated contributions. Each year in the valuation, the Required Contribution Rate is determined, based on the System's funding policy. This rate is the sum of the rates for the normal cost for the plan, the amortization of the UAAL, and the administrative expenses. Since the Required Contribution Rate has always been made and that procedure is expected to continue, there is no Contribution Risk at this time.





Schedule A – Valuation Balance Sheet

**VALUATION BALANCE SHEET
SHOWING THE PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES OF
THE GEORGIA LEGISLATIVE RETIREMENT SYSTEM
AS OF JUNE 30, 2019**

ACTUARIAL LIABILITIES		
(1)	Present value of prospective benefits payable on account of present retired members, beneficiaries of deceased members, and members entitled to deferred vested benefits	
	- Service and disability benefits	\$ 12,275,470
	- Death and survivor benefits	2,957,422
	- Deferred vested benefits	<u>3,971,555</u>
	Total	\$ 19,204,447
(2)	Present value of prospective benefits payable on account of present active members	<u>8,383,450</u>
(3)	TOTAL ACTUARIAL LIABILITIES	<u>\$ 27,587,897</u>
PRESENT AND PROSPECTIVE ASSETS		
(4)	Actuarial value of assets	\$ 34,153,000
(5)	Present value of total future contributions = (3)-(4)	\$ (6,565,103)
(6)	Present value of future member contributions	1,712,924
(7)	Present value of future employer contributions = (5)-(6)	\$ (8,278,027)
(8)	Prospective normal contributions	161,126
(9)	Prospective unfunded actuarial accrued liability contributions = (7)-(8)	<u>(8,439,153)</u>
(10)	TOTAL PRESENT AND PROSPECTIVE ASSETS	<u>\$ 27,587,897</u>





Schedule B – Development of Actuarial Value of Assets

DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS

(1)	Actuarial Value Beginning of Year	\$	33,871,000
(2)	Fair Value End of Year	\$	34,540,000
(3)	Fair Value Beginning of Year	\$	34,189,000
(4)	Cash Flow		
	(a) Contributions	\$	339,000
	(b) Benefit Payments		(1,926,000)
	(c) Administrative Expenses		(290,000)
	(d) Investment Expenses		(15,000)
	(e) Net: (4)(a) + (4)(b) + (4)(c) + (4)(d)	\$	(1,892,000)
(5)	Investment Income		
	(a) Fair Total: (2) – (3) – (4)(e)	\$	2,243,000
	(b) Assumed Rate of Return for Current Year		7.30%
	(c) Amount for Immediate Recognition: [(3) x (5)(b)] + [(4)(a) + (4)(b) + (4)(c)] x (5)(b) x 0.5 – (4)(d)	\$	2,442,000
	(d) Amount for Phased-In Recognition: (5)(a) – (5)(c)		(199,000)
(6)	Phased-In Recognition of Investment Income		
	(a) Current Year: (5)(d) / 5	\$	(40,000)
	(b) First Prior Year		117,000
	(c) Second Prior Year		297,000
	(d) Third Prior Year		(400,000)
	(e) Fourth Prior Year		(242,000)
	(f) Total Recognized Investment Gain	\$	(268,000)
(7)	Actuarial Value End of Year: (1) + (4)(e) + (5)(c) + (6)(f)	\$	34,153,000
(8)	Difference Between Fair & Actuarial Values: (2) – (8)	\$	387,000
(9)	Rate of Return on Actuarial Value*		6.56%

* Calculated assuming cash flow occurs in the middle of the year





Schedule C – Summary of Receipts and Disbursements

SUMMARY OF RECEIPTS AND DISBURSEMENTS (Fair Value)

	YEAR ENDING	
	June 30, 2019 (\$1,000's)	June 30, 2018 (\$1,000's)
<u>Receipts for the Year</u>		
Contributions:		
Members	\$ 339	\$ 323
Nonemployer	0	0
Employer	<u>0</u>	<u>0</u>
Subtotal	\$ 339	\$ 323
Investment Earnings	<u>2,228</u>	<u>2,962</u>
TOTAL	\$ 2,567	\$ 3,285
<u>Disbursements for the Year</u>		
Benefit Payments	\$ 1,856	\$ 1,772
Refunds to Members	70	22
Administrative Expenses	<u>290</u>	<u>283</u>
TOTAL	\$ 2,216	\$ 2,077
<u>Excess of Receipts over Disbursements</u>	\$ 351	\$ 1,208
<u>Reconciliation of Asset Balances</u>		
Asset Balance as of the Beginning of Year	\$ 34,189	\$ 32,981
Excess of Receipts over Disbursements	<u>351</u>	<u>1,208</u>
Asset Balance as of the End of Year	\$ <u>34,540</u>	\$ <u>34,189</u>
Rate of Return*	6.70%	9.23%

* Calculated assuming cash flow occurs in the middle of the year





Schedule D – Outline of Actuarial Assumptions and Methods

Actuarial assumptions and methods adopted by the Board December 17, 2015. Valuation interest rate adopted by the Board March 15, 2018.

VALUATION INTEREST RATE: 7.30% per annum, compounded annually, net of investment expenses, composed of a 2.75% inflation assumption and a 4.55% real rate of investment return assumption.

SALARY INCREASES: None.

SEPARATIONS BEFORE SERVICE RETIREMENT: Representative values of the assumed annual rates of separation before service retirement are as follows:

Age	Annual Rates of		
	Withdrawal	Death	
		Men	Women
20	8.0%	.032%	.018%
25	8.0	.035	.019
30	8.0	.041	.025
35	8.0	.072	.044
40	8.0	.100	.066
45	8.5	.140	.104
50	8.5	.198	.156
55	9.0	.281	.223
60	9.0	.409	.306
65	9.0	.560	.430

SERVICE RETIREMENT: The assumed annual rates of retirement are shown below:

Age	Annual Rate	Age	Annual Rate
60	10%	66	12%
61	10%	67	15%
62	15%	68	12%
63	10%	69	12%
64	10%	70-74	20%
65	12%	75	100%

DEATHS AFTER RETIREMENT: Since the System has minimal post-retirement mortality experience, the System uses the same mortality tables used for the Employees' Retirement System of Georgia. The RP-2000 Combined Mortality Table projected to 2025 with projection scale BB and set forward 2 years for both males and females is used for the period after service retirement and for dependent beneficiaries. Since there are no disability retirements in the System, there are no disability mortality rates utilized at this time. There is a margin for future mortality improvement in the tables used by the System. Based on the results of the most recent experience study adopted by the Board on December 17, 2015, the numbers of expected future deaths are 9-12% less than the actual number of deaths that occurred during the study period for healthy retirees.





Schedule D – Outline of Actuarial Assumptions and Methods

Representative values of the assumed annual rates of mortality after service retirement are as follows:

Age	Men	Women	Age	Men	Women
40	.113%	.079%	65	1.130%	.899%
45	.161	.123	70	1.870	1.528
50	.247	.187	75	3.215	2.522
55	.425	.292	80	5.516	4.163
60	.699	.492	85	9.563	7.124

ADMINISTRATIVE EXPENSES: Budgeted administrative expenses for the fiscal year are added to the normal cost.

AMORTIZATION METHOD: Level dollar amortization.

ASSET METHOD: The actuarial value of assets, as developed in Schedule B. The actuarial value of assets recognizes a portion of the difference between the fair value of assets and the expected value of assets, based on the assumed valuation rate of return. The actuarial value was set equal to the fair value as of June 30, 2013. The amount recognized each year beginning June 30, 2014 will be 20% of the difference between fair value and expected actuarial value

COST-OF-LIVING ALLOWANCE (COLA): 1.5% semi-annually.

PERCENT MARRIED: 90% of active members are assumed to be married with the male three years older than his spouse.

VALUATION METHOD: Entry age actuarial cost method. See Schedule E for a brief description of this method.





Schedule E – Actuarial Cost Method

1. The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 7.30%), of each member's expected benefits at retirement or death is determined, based on age, service and sex. The calculations take into account the probability of a member's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his terminating with a service, disability or survivor's benefit. The present value of the expected benefits payable on account of the active members is added to the present value of the expected future payments to retired members, beneficiaries and members entitled to deferred vested benefits to obtain the present value of all expected benefits payable from the System on account of the present group of members and beneficiaries.
2. The employer contributions required to support the benefits of the System are determined following a level funding approach, and consist of a normal contribution and an unfunded actuarial accrued liability contribution.
3. The normal contribution is determined using the entry age actuarial cost method. Under this method, a calculation is made to determine the level amount which, if applied for the average member during the entire period of his anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on his behalf.
4. The unfunded actuarial accrued liability contributions are determined by subtracting the present value of prospective employer normal contributions and member contributions, together with the current actuarial value of assets, from the present value of expected benefits to be paid from the System.





Schedule F – Board Funding Policy

FUNDING POLICY OF THE LRS BOARD OF TRUSTEES

The purpose of this Funding Policy is to state the overall objectives for the Georgia Legislative Retirement System (System), the benchmarks that will be used to measure progress in achieving those goals, and the methods and assumptions that will be employed to develop the benchmarks. It is the intent of the LRS Board of Trustees that the Funding Policy outlined herein will remain unchanged until the objectives below are met.

I. Funding Objectives

The goal in requiring employer and member contributions to the System is to accumulate sufficient assets during a member's employment to fully finance the benefits the member is expected to receive throughout retirement. In meeting this objective, the System will strive to meet the following funding objectives:

- To develop a pattern of contributions expressed as both a total dollar amount and as a dollar amount per active member and measured by valuations prepared in accordance with applicable State laws and the principles of practice prescribed by the Actuarial Standards Board.
- To maintain a stable funded ratio (ratio of actuarial value of assets to actuarial accrued liabilities) that reflects a trend of strong actuarial condition. The long-term objective is to maintain a 100% funded ratio; in the event that the funded ratio falls below 100%, the objective will be to obtain a 100% funded ratio over a reasonable period of future years.
- To maintain adequate asset levels to finance the benefits promised to members and monitor the future demand for liquidity.
- To promote intergenerational equity for taxpayers with respect to contributions required for the benefits provided by the System.

II. Measures of Funding Progress

To track progress in achieving the System's funding objectives, the following measures will be determined annually as of the actuarial valuation date (with due recognition that a single year's results may not be indicative of long-term trends):

- **Funded ratio** – The funded ratio, defined as the actuarial value of assets divided by the actuarial accrued liability, should remain reasonably stable over time, before adjustments for changes in benefits, actuarial methods, and/or actuarial adjustments. The target funded ratio will be 100 percent. In the event that the funded ratio fall below 100%, the targeted funded ratio will be 100% within 20 years of the date the funded ratio first falls below 100%.
- **Unfunded Actuarial Accrued Liability (UAAL)**
 - **Transitional UAAL** – The UAAL established as of the initial valuation date for which this funding policy is adopted shall be known as the Transitional UAAL.
 - **New Incremental UAAL** – Each subsequent valuation will produce a New Incremental UAAL consisting of all benefit changes, assumption and method changes and experience gains and/or losses that have occurred since the previous valuations.
- **UAAL Amortization Period**
 - The transitional UAAL will be amortized over a closed 20 year period beginning on the initial valuation date for which this funding policy is adopted.
 - Each New Incremental UAAL shall be amortized over a closed 20 year period beginning with the year it is incurred.





Schedule F – Board Funding Policy

- **Employer Contributions**
 - **Employer Normal Contributions** – the contribution determined as of the valuation date each year to fund the employer portion of the annual normal cost of the System based on the assumptions and methods adopted by the Board.
 - In each valuation subsequent to the adoption of this funding policy the required employer contributions will be determined as the summation of the employer Normal Contribution, a contribution for administrative expenses, the amortization cost for the Transitional UAAL and the individual amortization cost for each of the New Incremental UAAL bases.
 - Employer Contributions will be expressed as both a total dollar amount and as a dollar amount per active member. In no event shall the employer contributions be less than \$0.
 - The valuation methodology, including the amortization of the Unfunded Actuarial Accrued Liability (UAAL), would be expected to maintain reasonably stable contributions as a dollar per active member.
 - In no event will the employer contribution as determined above be less than \$0.

III. Methods and Assumptions

The annual actuarial valuations providing the measures to assess funding progress will utilize the actuarial methods and assumptions last adopted by the Board based upon the advice and recommendations of the actuary. These include the following primary methods and assumptions:

- The actuarial cost method used to develop the benchmarks will be the Entry Age Normal (EAN) actuarial cost method.
- The long-term annual investment rate of return assumption will be:
 - Effective with the June 30, 2013 valuation date, 7.50% net of investment expenses.
 - Effective with the June 30, 2017 valuation date, reduced by 0.10% (10 basis points) from the immediate prior actuarial valuation, as long as the following conditions are met:
 - The actual rate of return for the fiscal year ending with the current valuation date exceeds the assumed rate of return from the immediate prior actuarial valuation, and
 - The assumed rate of return does not decrease below 7.00% net of investment expenses.
- The actuarial value of assets will be determined by recognizing the annual differences between actual and expected market value of assets over a five-year period, beginning with the June 30, 2013 actuarial valuation.
 - Prior to the June 30, 2013 valuation, the differences between actual and expected market value of assets were recognized over a seven-year period. For the June 30, 2013 valuation, all then-current deferred gains and losses will be recognized immediately, and the initial new five-year period will begin immediately thereafter.

The employer contribution rates determined in an annual actuarial valuation will be at least sufficient to satisfy the annual normal cost of the System and amortize any UAAL as a level dollar amount over a period not to exceed 20 years. However in no event shall the employer contributions be less than \$0.

The actuary shall conduct an investigation into the System's experience at least every five years and utilize the results of the investigation to form the basis for recommended assumptions and methods. Any changes to the recommended assumptions and methods that are approved by the Board will be reflected in this Policy.





Schedule F – Board Funding Policy

IV. Funding Policy Progress

The Board will periodically have actuarial projections of the valuation results performed to assess the current and expected future progress towards the overall funding goals of the System. These periodic projections will provide the expected valuation results over at least a 30-year period. The projected measures of funding progress and the recent historical trend provided in valuations will provide important information for the Board's assessment of the System's funding progress.

Adopted: March 15, 2018





Schedule G – Amortization of UAAL

AMORTIZATION OF TRANSITIONAL UAAL

Valuation Date	Amortization Period	Balance of Transitional UAAL	Expected UAAL Contribution
6/30/2013	20	\$ (4,577,499)	\$ (449,017)
6/30/2014	19	(4,471,795)	(449,017)
6/30/2015	18	(4,358,162)	(449,017)
6/30/2016	17	(4,236,007)	(449,017)
6/30/2017	16	(4,104,691)	(446,099)
6/30/2018	15	(3,962,339)	(443,323)
6/30/2019	14	(3,808,267)	(443,323)
6/30/2020	13	(3,642,948)	(443,323)
6/30/2021	12	(3,465,560)	(443,323)
6/30/2022	11	(3,275,223)	(443,323)
6/30/2023	10	(3,070,991)	(443,323)
6/30/2024	9	(2,851,850)	(443,323)
6/30/2025	8	(2,616,712)	(443,323)
6/30/2026	7	(2,364,409)	(443,323)
6/30/2027	6	(2,093,688)	(443,323)
6/30/2028	5	(1,803,204)	(443,323)
6/30/2029	4	(1,491,515)	(443,323)
6/30/2030	3	(1,157,072)	(443,323)
6/30/2031	2	(798,216)	(443,323)
6/30/2032	1	(413,162)	(443,323)
6/30/2033	0	0	0





Schedule G – Amortization of UAAL

AMORTIZATION OF 2014 INCREMENTAL UAAL

Valuation Date	Amortization Period	Balance of New Incremental UAAL 6/30/2014	Expected UAAL Contribution
6/30/2014	20	\$ (1,152,968)	\$ (113,097)
6/30/2015	19	(1,126,343)	(113,097)
6/30/2016	18	(1,097,722)	(113,097)
6/30/2017	17	(1,066,954)	(112,330)
6/30/2018	16	(1,033,579)	(111,597)
6/30/2019	15	(997,433)	(111,597)
6/30/2020	14	(958,649)	(111,597)
6/30/2021	13	(917,033)	(111,597)
6/30/2022	12	(872,380)	(111,597)
6/30/2023	11	(824,466)	(111,597)
6/30/2024	10	(773,056)	(111,597)
6/30/2025	9	(717,892)	(111,597)
6/30/2026	8	(658,701)	(111,597)
6/30/2027	7	(595,189)	(111,597)
6/30/2028	6	(527,041)	(111,597)
6/30/2029	5	(453,918)	(111,597)
6/30/2030	4	(375,457)	(111,597)
6/30/2031	3	(291,268)	(111,597)
6/30/2032	2	(200,934)	(111,597)
6/30/2033	1	(104,005)	(111,597)
6/30/2034	0	0	0





Schedule G – Amortization of UAAL

AMORTIZATION OF 2015 INCREMENTAL UAAL

Valuation Date	Amortization Period	Balance of New Incremental UAAL 6/30/2015	Expected UAAL Contribution
6/30/2015	20	\$ (460,224)	\$ (45,144)
6/30/2016	19	(449,597)	(45,144)
6/30/2017	18	(438,172)	(44,825)
6/30/2018	17	(425,771)	(44,520)
6/30/2019	16	(412,332)	(44,520)
6/30/2020	15	(397,912)	(44,520)
6/30/2021	14	(382,440)	(44,520)
6/30/2022	13	(365,838)	(44,520)
6/30/2023	12	(348,024)	(44,520)
6/30/2024	11	(328,910)	(44,520)
6/30/2025	10	(308,400)	(44,520)
6/30/2026	9	(286,393)	(44,520)
6/30/2027	8	(262,780)	(44,520)
6/30/2028	7	(237,442)	(44,520)
6/30/2029	6	(210,256)	(44,520)
6/30/2030	5	(181,084)	(44,520)
6/30/2031	4	(149,783)	(44,520)
6/30/2032	3	(116,197)	(44,520)
6/30/2033	2	(80,160)	(44,520)
6/30/2034	1	(41,491)	(44,520)
6/30/2035	0	0	0





Schedule G – Amortization of UAAL

AMORTIZATION OF 2016 INCREMENTAL UAAL

Valuation Date	Amortization Period	Balance of New Incremental UAAL 6/30/2016	Expected UAAL Contribution
6/30/2016	20	\$ (854,468)	\$ (83,816)
6/30/2017	19	(834,736)	(83,202)
6/30/2018	18	(813,305)	(82,612)
6/30/2019	17	(790,064)	(82,612)
6/30/2020	16	(765,127)	(82,612)
6/30/2021	15	(738,370)	(82,612)
6/30/2022	14	(709,659)	(82,612)
6/30/2023	13	(678,852)	(82,612)
6/30/2024	12	(645,796)	(82,612)
6/30/2025	11	(610,328)	(82,612)
6/30/2026	10	(572,270)	(82,612)
6/30/2027	9	(531,433)	(82,612)
6/30/2028	8	(487,616)	(82,612)
6/30/2029	7	(440,600)	(82,612)
6/30/2030	6	(390,152)	(82,612)
6/30/2031	5	(336,021)	(82,612)
6/30/2032	4	(277,939)	(82,612)
6/30/2033	3	(215,617)	(82,612)
6/30/2034	2	(148,745)	(82,612)
6/30/2035	1	(76,991)	(82,612)
6/30/2036	0	0	0





Schedule G – Amortization of UAAL

AMORTIZATION OF 2017 INCREMENTAL UAAL

Valuation Date	Amortization Period	Balance of New Incremental UAAL 6/30/2017	Expected UAAL Contribution
6/30/2017	20	\$ (794,740)	\$ (77,366)
6/30/2018	19	(776,185)	(76,796)
6/30/2019	18	(756,050)	(76,796)
6/30/2020	17	(734,446)	(76,796)
6/30/2021	16	(711,264)	(76,796)
6/30/2022	15	(686,390)	(76,796)
6/30/2023	14	(659,700)	(76,796)
6/30/2024	13	(631,062)	(76,796)
6/30/2025	12	(600,334)	(76,796)
6/30/2026	11	(567,362)	(76,796)
6/30/2027	10	(531,983)	(76,796)
6/30/2028	9	(494,022)	(76,796)
6/30/2029	8	(453,289)	(76,796)
6/30/2030	7	(409,583)	(76,796)
6/30/2031	6	(362,686)	(76,796)
6/30/2032	5	(312,366)	(76,796)
6/30/2033	4	(258,373)	(76,796)
6/30/2034	3	(200,438)	(76,796)
6/30/2035	2	(138,274)	(76,796)
6/30/2036	1	(71,571)	(76,796)
6/30/2037	0	0	0





Schedule G – Amortization of UAAL

AMORTIZATION OF 2018 INCREMENTAL UAAL

Valuation Date	Amortization Period	Balance of New Incremental UAAL 6/30/2018	Expected UAAL Contribution
6/30/2018	20	\$ (954,627)	\$ (92,222)
6/30/2019	19	(932,093)	(92,222)
6/30/2020	18	(907,914)	(92,222)
6/30/2021	17	(881,970)	(92,222)
6/30/2022	16	(854,132)	(92,222)
6/30/2023	15	(824,262)	(92,222)
6/30/2024	14	(792,211)	(92,222)
6/30/2025	13	(757,820)	(92,222)
6/30/2026	12	(720,919)	(92,222)
6/30/2027	11	(681,325)	(92,222)
6/30/2028	10	(638,840)	(92,222)
6/30/2029	9	(593,253)	(92,222)
6/30/2030	8	(544,339)	(92,222)
6/30/2031	7	(491,854)	(92,222)
6/30/2032	6	(435,537)	(92,222)
6/30/2033	5	(375,110)	(92,222)
6/30/2034	4	(310,271)	(92,222)
6/30/2035	3	(240,699)	(92,222)
6/30/2036	2	(166,048)	(92,222)
6/30/2037	1	(85,948)	(92,222)
6/30/2038	0	0	0





Schedule G – Amortization of UAAL

AMORTIZATION OF 2019 INCREMENTAL UAAL

Valuation Date	Amortization Period	Balance of New Incremental UAAL 6/30/2019	Expected UAAL Contribution
6/30/2019	20	(742,914)	(71,769)
6/30/2020	19	(725,377)	(71,769)
6/30/2021	18	(706,561)	(71,769)
6/30/2022	17	(686,370)	(71,769)
6/30/2023	16	(664,706)	(71,769)
6/30/2024	15	(641,460)	(71,769)
6/30/2025	14	(616,518)	(71,769)
6/30/2026	13	(589,754)	(71,769)
6/30/2027	12	(561,037)	(71,769)
6/30/2028	11	(530,224)	(71,769)
6/30/2029	10	(497,161)	(71,769)
6/30/2030	9	(461,684)	(71,769)
6/30/2031	8	(423,618)	(71,769)
6/30/2032	7	(382,773)	(71,769)
6/30/2033	6	(338,946)	(71,769)
6/30/2034	5	(291,919)	(71,769)
6/30/2035	4	(241,460)	(71,769)
6/30/2036	3	(187,318)	(71,769)
6/30/2037	2	(129,223)	(71,769)
6/30/2038	1	(66,887)	(71,769)
6/30/2039	0	0	0





Schedule H – Summary of Main System Provisions

SUMMARY OF MAIN SYSTEM PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

The Georgia Legislative Retirement System (LRS) is a cost-sharing multiple employer defined benefit pension plan established by the Georgia General Assembly in 1979 for the purpose of providing retirement allowances and other benefits for all members of the Georgia General Assembly.

Normal Retirement Benefit

Eligibility	Age 65 and 8 years of creditable service or age 62 and 8 years of membership service (for eligible purposes, 4 legislative terms are equivalent to 8 years of membership service).
Benefit	Monthly benefit is \$36 multiplied by years of creditable service. For members with retirement dates prior to July 1, 2013, a one-time 1.75% increase is made at time of retirement.

Early Retirement Benefit

Eligibility	Age 60 and 8 years of membership service.
Benefit	Accrued benefit reduced by 5% for each year member is under age 62.

Disability Retirement Benefit

No special benefit. Benefit is same as early or normal retirement.

Involuntary Retirement Benefit

N/A

Deferred Vested Retirement Benefit

Eligibility	8 years of creditable service. Member contributions not withdrawn.
Benefit	Accrued benefit deferred to age 65 or reduced benefit payable at age 60.

Death Benefit

Eligibility	If less than 15 years of creditable service, a refund of accumulated contributions. If at least 15 years of creditable service or eligible for retirement, the benefit below.
Benefit	Benefit equal to retirement benefit immediately prior to death under 100% joint and survivorship option.





Schedule H – Summary of Main System Provisions

Termination Benefit

Eligibility

Termination with less than 8 years of creditable service.

Benefit

Return of the member's accumulated contributions.

Payment Options

- (1) Life annuity. Guaranteed payment of accumulated member contributions.
- (2) 100% joint and survivorship annuity.
- (3) 50% joint and survivorship annuity.

Post-Retirement Adjustments

The Board may from time to time grant a Cost of Living Adjustment.

Contributions

By Members

Members contribute 8 ½ % of salary.

By Employers

Employer contributions are actuarially determined and approved and certified by the Board to the legislative fiscal officer.





Schedule I – Tables of Membership Data

NUMBER OF ACTIVE MEMBERS BY AGE AND SERVICE AS OF JUNE 30, 2019

Attained Age	Years of Service									Total
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	
Under 25	1									1
25 to 29	2	1								3
30 to 34	3	3	3							9
35 to 39	6	2	6							14
40 to 44	7	12	4	1	1					25
45 to 49	4	7	7	1						19
50 to 54	6	7	8	3						24
55 to 59	4	13	10	1	3	1				32
60 to 64	1	5	11	6	6	5	1			35
65 to 69	3	5	9	9	3	3	2		1	35
70 & Up		1	4	2	4	5	4	2	2	24
Total	37	56	62	23	17	14	7	2	3	221

Average Age: 55.4
Average Service: 9.2





Schedule I – Tables of Membership Data

NUMBER OF RETIRED MEMBERS AND THEIR BENEFITS BY AGE

Age	Number of Members	Total Annual Benefits	Average Annual Benefits
Under 50	0	\$ 0	\$ 0
50 - 54	0	0	0
55 - 59	0	0	0
60 - 64	7	40,001	5,714
65 - 69	33	175,899	5,330
70 - 74	50	304,930	6,099
75 - 79	51	290,861	5,703
80 - 84	31	204,053	6,582
85 - 89	22	167,525	7,615
90 - 94	11	104,947	9,541
95 & Over	3	25,071	8,357
Total	208	\$ 1,313,287	\$ 6,314

NUMBER OF BENEFICIARIES AND THEIR BENEFITS BY AGE

Age	Number of Members	Total Annual Benefits	Average Annual Benefits
Under 50	2	\$ 6,323	\$ 3,161
50 - 54	0	0	0
55 - 59	2	9,826	4,913
60 - 64	0	0	0
65 - 69	6	24,857	4,143
70 - 74	12	67,739	5,645
75 - 79	13	78,409	6,031
80 - 84	6	29,503	4,917
85 - 89	11	85,402	7,764
90 - 94	6	72,381	12,063
95 & Over	3	30,045	10,015
Total	61	\$ 404,485	\$ 6,631





Schedule I – Tables of Membership Data

NUMBER OF DEFERRED VESTED MEMBERS AND THEIR BENEFITS BY AGE

Age	Number of Members	Total Annual Benefits	Average Annual Benefits
Under 45	6	\$ 23,904	\$ 3,984
45-49	12	53,460	4,455
50-54	17	84,887	4,993
55-59	20	103,068	5,153
60-64	24	112,967	4,707
65-69	3	18,216	6,072
70 & Over	0	0	0
Total	82	\$ 396,502	\$ 4,835





Schedule J – CAFR Schedules

GA LRS: Solvency Test							
Actuarial Valuation as of 6/30	Actuarial Accrued Liability for:						
	Active Member Contributions	Retirants & Beneficiaries	Active Members (Employer Funded Portion)	Valuation Assets	Portion of Aggregate Accrued Liabilities Covered by Assets		
	(1)	(2)	(3)		(1)	(2)	(3)
2019	\$3,664	\$19,204	\$2,846	\$34,153	100.0%	100.0%	100.0%
2018	3,862	19,048	2,995	33,871	100.0%	100.0%	100.0%
2017	3,543	19,382	2,749	32,913	100.0%	100.0%	100.0%
2016	3,630	19,202	2,701	32,171	100.0%	100.0%	100.0%
2015	3,287	19,873	2,530	31,635	100.0%	100.0%	100.0%
2014	3,430	19,006	2,477	30,538	100.0%	100.0%	100.0%
2013	2,951	19,623	2,330	29,481	100.0%	100.0%	100.0%
2012	3,185	19,200	2,581	28,990	100.0%	100.0%	100.0%
2011	2,921	19,759	2,564	29,278	100.0%	100.0%	100.0%
2010	3,166	19,208	2,629	29,581	100.0%	100.0%	100.0%

All dollar amounts are in thousands.

GA LRS: Schedule of Retirants Added to and Removed from Rolls									
Year Ended	Added to Rolls		Removed from Rolls		Roll End of Year		% Increase in Annual Allowances	Average Annual Allowances	
	Number	Annual Allowances (in thousands)	Number	Annual Allowances (in thousands)	Number	Annual Allowances (in thousands)			
June 30, 2019	14	\$ 82	12	\$ 96	269	\$ 1,718	-0.8%	\$6,386	
June 30, 2018	11	57	7	56	267	1,732	0.4%	6,489	
June 30, 2017	13	80	6	74	263	1,731	0.3%	6,582	
June 30, 2016	9	58	13	111	256	1,725	-3.0%	6,738	
June 30, 2015	13	87	12	112	260	1,778	-1.4%	6,838	
June 30, 2014	6	30	7	61	259	1,803	-1.7%	6,961	
June 30, 2013	32	200	15	140	260	1,834	3.4%	7,054	
June 30, 2012	10	66	11	82	243	1,774	-0.9%	7,300	
June 30, 2011	18	104	10	86	244	1,790	1.0%	7,336	
June 30, 2010	10	106	3	36	236	1,772	4.1%	7,508	

