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# GASB STATEMENT NO. 68 REPORT FOR THE

# TEACHERS' RETIREMENT SYSTEM OF ALABAMA PREPARED AS OF SEPTEMBER 30, 2020





February 2, 2021

Board of Control Teachers' Retirement System of Alabama Montgomery, Alabama

Ladies and Gentlemen:

Presented in this report is information to assist the Teachers' Retirement System of Alabama (TRS) in meeting the requirements of the Governmental Accounting Standards Board (GASB) Statement No. 68 and to identify the information to be provided by the actuary, Cavanaugh Macdonald Consulting (CMC). The information presented is for the period ending September 30, 2020 (the Measurement Date).

GASB Statement Number 68 established accounting and financial reporting requirements for governmental employers that provide pension benefits to their employees through a trust.

The annual actuarial valuation used as a basis for much of the information presented in this report was performed as of September 30, 2019. The valuation was based upon data provided by the Retirement System staff, for active, inactive and retired members along with pertinent financial information.

The actuarial calculations were performed by qualified actuaries according to generally accepted actuarial procedures and methods. The calculations are based on the current provisions of the System, and on actuarial assumptions that are, individually and in the aggregate, internally consistent and reasonably based on the actual experience of the System. In addition, the calculations were completed in compliance with the laws governing the System and, in our opinion, meet the requirements of GASB 68. Larry Langer and Ed Koebel are members of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



Board of Control February 2, 2021 Page 2

These results are only for financial reporting and may not be appropriate for funding purposes or other types of analysis. Calculations for purposes other than satisfying the requirements of GASB 67 and GASB 68 may produce significantly different results. Future actuarial results may differ significantly from the current results presented in this report due to such factors as changes in plan experience or changes in economic or demographic assumptions.

Sincerely yours,

Larry Langer, ASA, EA, FCA, MAAA Principal and Consulting Actuary Cathy Turcot
Principal and Managing Director

atty Turcot

Edward Koebel, EA, FCA, MAAA Chief Executive Officer

Edward J. Woeld



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# REPORT OF THE ANNUAL GASB STATEMENT NO. 68 REQUIRED INFORMATION FOR THE EMPLOYERS PARTCIPATING IN THE TEACHERS' RETIREMENT SYSTEM OF ALABAMA

#### PREPARED AS OF SEPTEMBER 30, 2020

#### **SECTION I – INTRODUCTION**

The Governmental Accounting Standards Board issued Statement No. 68 (GASB 68), "Accounting and Financial Reporting For Pensions" in June 2012. GASB 68's effective date is for an employer's fiscal year beginning after June 15, 2014. The Teachers' Retirement System of Alabama (TRS) is a cost-sharing multiple employer defined benefit pension plan.

This report, prepared as of September 30, 2020 (the Measurement Date), presents information to assist the employers participating in TRS in meeting the requirements of GASB 68 for the fiscal year ending in 2021 (Reporting Date). Much of the material provided in this report is based on the data, assumptions and results of the annual actuarial valuation of TRS as of September 30, 2019. The results of the valuation were detailed in a report dated June 17, 2020.

The NPL shown in the GASB Statement No. 67 Report for the Teachers' Retirement System of Alabama Prepared as of September 30, 2020, and submitted December 11, 2020, is the collective NPL used for purposes of GASB 68. Please refer to that report for the derivation of the collective NPL.

Among the assumptions needed for the liability calculation is a Single Equivalent Interest Rate (SEIR). To determine the SEIR, the FNP must be projected into the future for as long as there are anticipated benefits payable under the plan's provision applicable to the membership and beneficiaries of the Fund on the Measurement Date. Future contributions were projected to be made in accordance with the Funding Policy adopted by the Board. The funding policy is shown in Schedule F of this report. If the FNP is not projected to be depleted at any point in the future, as the results currently indicate, the long term expected rate of return on plan investments expected to be used to finance the benefit payments may be used as the SEIR.

If, however, at a future measurement date the FNP is projected to be depleted, the SEIR is determined as the single rate that will generate a present value of benefit payments equal to the sum of the present value determined by discounting all projected benefit payments through the date of depletion by the long term expected rate of return, and the present value determined by discounting those benefits after the date of depletion by a 20-year tax-exempt municipal bond (rating AA/Aa or higher) rate. The Municipal Bond Index Rate used, if necessary, for this purpose is the average of the Bond Buyer General Obligation 20-year Municipal Bond Index, the Fidelity General Obligation AA 20-year Municipal Bond Index, and the S&P High Grade 20-year Municipal Bond Index. We have determined that a discount rate of 7.70 percent meets the requirements of GASB 68.

Pension Expense (PE) includes amounts for service cost (the normal cost under the Entry Age Normal actuarial cost method for the year), interest on the Total Pension Liability (TPL), changes in benefit structure, amortization of increases/decreases in liability due to actuarial experience and actuarial assumption changes, and amortization of investment gains/losses. The actuarial experience and assumption change impacts are amortized over the average expected remaining service life of the Plan membership as of the beginning of the measurement period, and investment gains/losses are amortized over five years. The development of the collective PE is shown in Section IV.



The unamortized portions of each year's experience, assumption changes and investment gains/losses are used to develop deferred inflows and outflows, which also must be included in the employer's financial statements. The development of the collective deferred inflows and outflows is shown in Section IV.

These collective amounts have been allocated based on actual contributions made to TRS during the measurement period to determine the proportionate share associated with each participating employer.

Schedule A of this report shows the total amount of employer contributions for the year ending September 30, 2020, from each participating employer. Schedule A also shows the proportionate share percentages that have been determined based on these contributions.

Based on these percentages we have determined the proportionate share amounts of the NPL, PE and Deferred Inflows and Outflows for each participating employer. These amounts are shown in Schedule B.

Section II of this report is a summary of the principal results of the collective amounts under GASB 68. Section III provides the results of all the necessary calculations, presented in the order laid out in GASB 68 for note disclosure and Section V shows the Required Supplementary Information (RSI).



# SECTION II - SUMMARY OF COLLECTIVE AMOUNTS (\$ IN THOUSANDS)

	2	2020	:	2019
Valuation Date:	Septer	mber 30, 2019	Septe	mber 30, 2018
Measurement Date:	Septer	mber 30, 2020	Septe	mber 30, 2019
Reporting Date:	Septer	mber 30, 2021	Septe	mber 30, 2020
Single Equivalent Interest Rate (SEIR):  Long-Term Expected Rate of Return  Municipal Bond Index Rate  Fiscal Year in which Plan's Fiduciary Net Position is projected to be depleted from future benefit payments for current members  Single Equivalent Interest Rate		7.70% 2.25% N/A 7.70%		7.70% 2.81% N/A 7.70%
Net Pension Liability:				
Total Pension Liability (TPL) Plan Fiduciary Net Position (FNP) Net Pension Liability (NPL = TPL – FNP) FNP as a percentage of TPL	\$	38,316,039 <u>25,946,389</u> 12,369,650 67.72%	\$ \$	36,676,350 <u>25,619,448</u> 11,056,902 69.85%
Collective Pension Expense (PE):  Deferred Outflows of Resources:	\$ \$	1,252,700 1,659,500	\$	1,175,061 889,138
Deferred Inflows of Resources:	\$	214,530	\$	366,691



#### **SECTION III – NOTES TO FINANCIAL STATEMENTS**

The material presented herein will follow the order presented in GASB 68. Paragraph numbers are provided for ease of reference. Amounts are shown in aggregate. Please refer to Schedule B of this report for the proportionate share of certain pension amounts as required by GASB 68.

Paragraphs 77 and 78(a)-(e): These paragraphs require information to be disclosed regarding the actuarial assumptions used to measure the TPL. The complete set of actuarial assumptions utilized in developing the TPL are outlined in Schedule E.

The TPL was determined by an actuarial valuation as of September 30, 2019, using the following key assumptions:

Inflation 2.75 percent

Salary increases, including inflation 3.25 – 5.00 percent

Investment Rate of return, net of pension plan

investment expense, including inflation

7.70 percent

Post-Retirement mortality rates for service retirements and dependent beneficiaries were based on the RP-2000 White Collar Mortality Table projected to 2020 using scale BB and adjusted 115% for all ages for males and 112% for ages 78 and over for females. The rates of disabled mortality were based on the RP-2000 Disabled Mortality Table projected to 2020 using scale BB and adjusted 105% for males and 120% for females.

The actuarial assumptions used for the purposes of determining the TPL were based on the results of an actuarial experience study for the period October 1, 2010 – September 30, 2015 and a discount rate of 7.70%, as adopted by the Board of Trustees on December 4, 2018.

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 most recent target asset allocation and best estimates of geometric real rates of return for each major asset class are summarized in the following table:



Asset Class	Target Allocation	Long-Term Expected Rate of Return*
Fixed Income US Large Stocks US Mid Stocks US Small Stocks Int'l Developed Mkt Stocks Int'l Emerging Mkt Stocks Alternatives Real Estate	17.0% 32.0% 9.0% 4.0% 12.0% 3.0% 10.0%	4.4% 8.0% 10.0% 11.0% 9.5% 11.0% 10.1% 7.5%
Cash Equivalents  Total	3.0% 100.0%	1.5%

<sup>\*</sup>Includes assumed rate of inflation of 2.50%.

Discount rate. The discount rate used to measure the total pension liability was 7.70 percent. 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.

**Paragraph 78 (g):** This paragraph requires disclosure of the sensitivity of the NPL to changes in the discount rate. The following presents the NPL of the System, calculated using the discount rate of 7.70 percent, as well as what the System's NPL would be if it were calculated using a discount rate that is 1-percentage-point lower (6.70 percent) or 1-percentage-point higher (8.70 percent) than the current rate (\$ thousands):

	1%	Current	1%
	Decrease	Discount Rate	Increase
	(6.70%)	(7.70%)	(8.70%)
System's Net Pension Liability	\$16,503,709	\$12,369,650	\$8,871,759

**Paragraph 80(a):** This paragraph requires disclosure of the employer's proportionate share of the collective NPL and if an employer has a special funding situation the portion of the non-employer contributing entities' proportional share of the collective NPL that is associated with the employer. These amounts are shown in Schedule B.

**Paragraph 80(b):** This paragraph requires disclosure of the employer's proportion (percentage) of the collective NPL and the changes in proportion since the prior measurement date. These amounts are shown for all entities in Schedule A.



**Paragraph 80(c):** September 30, 2019, is the actuarial valuation date upon which the TPL is based. An expected TPL is determined as of September 30, 2020, using standard roll forward techniques. The procedure used to determine the TPL as of September 30, 2020, is shown on page 7 of the GASB 67 report for TRS submitted on December 11, 2020.

**Paragraph 80(g):** Please see Section IV of this report for the development of the collective pension expense. The PE for each employer is shown in Schedule B.

**Paragraph 80(h):** Since certain expense items are amortized over closed periods each year, the deferred portions of these items must be tracked annually. If the amounts serve to reduce pension expense they are labeled deferred inflows. If they will increase pension expense they are labeled deferred outflows. The amortization of these amounts is accomplished on a level dollar basis, with no interest included in the deferred amounts. Experience gains/losses and the impact of changes in actuarial assumptions, if any, are amortized over the average expected remaining service life of the active and inactive Plan members at the beginning of the fiscal year. Investment gains and losses are amortized over a fixed five-year period.

The table below provides a summary of the collective deferred inflows and outflows as of the Measurement Date. The allocation of the collective deferred inflows and outflows is provided in Schedule B.

	Collective Deferred Outflows of Resources (\$ thousands)	Collective Deferred Inflows of Resources (\$ thousands)
Differences between expected and actual experience	\$612,192	\$214,530
Changes of actuarial assumptions	128,657	0
Net difference between projected and actual earnings on plan investments	918,651	_0
Total	<u>\$ 1,659,500</u>	<u>\$ 214,530</u>

The following tables show the components of the collective deferred outflows of resources and the collective deferred inflows of resources by year.



		Collective D	eferred Outflows	and Inflows	for Difference	es between E	xpected and	Actual Experie	ence (\$ thousa	nds)	
				Beginning	Balance					Ending	Balance
	Initial Balance of Losses / Deferred Outflow	Initial Balance of Gains / Deferred Inflow	Amortization Period	Deferred Outflows (a)	Deferred Inflows (b)	Losses / Deferred Outflows (c)	Gains / Deferred Inflows (d)	Amounts Recognized in Pension Expense / Deferred Outflow (e)	Amounts Recognized in Pension Expense / Deferred Inflow (f)	Deferred Outflows (a) + (c) - (e)	Deferred Inflows (b) + (d) - (f)
2020	\$624,754	\$0	5.0	\$0	\$0	\$624,754	\$0	\$124,951	\$0	\$499,803	\$0
2019	0	226,777	5.1	0	182,311	0	0	0	44,466	0	137,845
2018	265,644	0	5.2	163,474	0	0	0	51,085	0	112,389	0
2017	0	261,067	5.2	0	110,452	0	0	0	50,205	0	60,247
2016	0	290,388	5.3	0	71,228	0	0	0	54,790	0	16,438
2015	0	70,200	5.2	0	2,700	0	0	0	2,700	0	0
Total				\$163,474	\$366,691	\$624,754	\$0			\$612,192	\$214,530

		Colle	ective Deferred C	outflows and	Inflows for Di	fferences fro	m Assumptic	on Changes (\$	thousands)		
				Beginning	Balance					Ending	Balance
Year	Initial Balance of Losses / Deferred Outflow	Initial Balance of Gains / Deferred Inflow	Amortization Period	Deferred Outflows (a)	Deferred Inflows (b)	Losses / Deferred Outflows (c)	Gains / Deferred Inflows (d)	Amounts Recognized in Pension Expense / Deferred Outflow (e)	Amounts Recognized in Pension Expense / Deferred Inflow (f)	Deferred Outflows (a) + (c) - (e)	Deferred Inflows (b) + (d) - (f)
2020	\$0	\$0	5.0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019	0	0	5.1	0	0	0	0	0	0	0	0
2018	178,049	0	5.2	109,569	0	0	0	34,240	0	75,329	0
2017	0	0	5.2	0	0	0	0	0	0	0	0
2016	942,133	0	5.3	231,089	0	0	0	177,761	0	53,328	0
Total				\$340,658	\$0	\$0	\$0			\$128,657	\$0

		Coll	ective Deferred	Outflows and	Inflows for D	ifferences in	Investment I	Experience (\$ t	housands)		
				Beginning	Balance					Ending	Balance
	Initial Balance of Losses / Deferred Outflow	Initial Balance of Gains / Deferred Inflow	Amortization Period	Deferred Outflows (a)	Deferred Inflows (b)	Losses / Deferred Outflows (c)	Gains / Deferred Inflows (d)	Amounts Recognized in Pension Expense / Deferred Outflow (e)	Amounts Recognized in Pension Expense / Deferred Inflow (f)	Deferred Outflows (a) + (c) - (e)	Deferred Inflows (b) + (d) - (f)
2020	\$557,390	\$0	5.0	\$0	\$0	\$557,390	\$0	\$111,478	\$0	\$445,912	\$0
2019	1,346,780	0	5.0	1,077,424	0	0	0	269,356	0	808,068	0
2018	0	391,210	5.0	0	234,726	0	0	0	78,242	0	156,484
2017	0	894,221	5.0	0	357,689	0	0	0	178,844	0	178,845
2016	0	500,011	5.0	0	100,003	0	0	0	100,003	0	0
Total				\$1,077,424	\$692,418	\$557,390	\$0			\$1,253,980	\$335,329
				Net differen	ce between p	ojected and a	ctual earning	s on investment	s	\$918,651	



Summary of Amortization of Deferred Outflows and Inflows of Resources (\$ thousands)										
Amortization		Actual and	Expected Exp	erience			Assur	nption Change	s	
Year	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
2022	(\$16,438)	(\$50,205)	\$51,085	(\$44,466)	\$124,951	\$53,328	\$0	\$34,240	\$0	\$0
2023	0	(10,042)	51,085	(44,466)	124,951	0	0	34,240	0	0
2024	0	0	10,219	(44,466)	124,951	0	0	6,849	0	0
2025	0	0	0	(4,447)	124,950	0	0	0	0	0
2026	0	0	0	0	0	0	0	0	0	0
Thereafter	0	0	0	0	0_	0	0	0	0	0
TOTAL	(\$16,438)	(\$60,247)	\$112,389	(\$137,845)	\$499,803	\$53,328	\$0	\$75,329	\$0	\$0

Amortization Year	2016	2017	2018	2019	2020	Total
2022	\$0	(\$178,845)	(\$78,242)	\$269,356	\$111,478	\$276,242
2023	0	0	(78,242)	269,356	111,478	\$458,360
2024	0	0	0	269,356	111,478	\$478,387
2025	0	0	0	0	111,478	\$231,981
2026	0	0	0	0	0	\$0
Thereafter	0	0	0	0	0	\$0
TOTAL	\$0	(\$178,845)	(\$156,484)	\$808,068	\$445,912	\$1,444,970



**Paragraph 80(i):** Collective amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows (\$ thousands):

Deferred Amounts to be Recognized in Fiscal Years Following the Reporting Date:					
Year 1	\$ 276,242				
Year 2	458,360				
Year 3	478,387				
Year 4	231,981				
Year 5	0				
Thereafter	0				

**Paragraph 80(j):** There are no non-employer contributions recognized for the support provided by non-employer contributing entities in TRS.



#### **SECTION IV – PENSION EXPENSE**

As noted earlier, the collective Pension Expense (PE) consists of a number of different items. GASB 68 refers to the first as Service Cost which is the Normal Cost using the Entry Age Normal actuarial funding method. The second item is interest on the beginning Total Pension Liability (TPL) and the cash flow during the year at the 7.70% rate of return in effect as of the previous measurement date.

The next three items refer to any changes that occurred in the TPL due to:

- · benefit changes, or
- actual versus expected experience, or
- changes in actuarial assumptions.

Benefit changes, which are reflected immediately in PE, can be positive, if there is a benefit improvement for existing Plan members, or negative if there is a benefit reduction. For the year ended September 30, 2020, there were no benefit changes to be recognized.

The next item to be recognized is the portion of current year changes in TPL due to actual versus expected Plan experience for the year. The portion to recognize in the current year is determined by spreading the total change over the average expected remaining service life of the entire Plan membership determined at the beginning of the year. The average expected remaining service life of active members is the average number of years the active members are expected to remain active. For the year ended September 30, 2020, this number of years for the active members is 10.5. The average expected remaining service life of the inactive members is zero. Therefore, the number of years to use for the amortization is the weighted average for all active and inactive members, or 5.0 years. The amount to be recognized due to actual versus expected experience for the year is \$124,951,000.

The last item under changes in TPL are changes in actuarial assumptions since the last measurement date. Recognition of the change in TPL due to changes in actuarial assumptions, is also spread over the average expected remaining service life of the plan membership. The amount to be recognized due to changes in assumptions for the year is \$0.

Member contributions for the year and projected earnings on the Fiduciary Net Position (FNP), determined at the discount rate used to calculate the liabilities, are subtracted from the amount determined thus far. One-fifth of current period differences between projected and actual investment earnings on the FNP are recognized in the pension expense. The projected earnings on the FNP, the current difference between projected and actual investment earnings on the FNP, and the amount recognized due to this difference are calculated as shown in the following table.



Investment Earnings (Gain)/Loss  Determined as of the Measurement Date  (\$ thousands)					
a. Expected asset return rate	7.70%				
b. Beginning of year FNP (BOY)	\$ 25,619,448				
c. End of year FNP	25,946,389				
d. Expected return on BOY for the plan year (a x b)	1,972,697				
e. External Cash Flow					
(i) Employer contributions	862,475				
(ii) Member contributions	515,003				
(iii) Refunds of contributions	(58,679)				
(iv) Benefit Payments	(2,335,705)				
(v) Administrative expenses	(31,111)				
(vi) Other	0				
(vii) Total net external cash flow	(1,048,017)				
f. Expected return on net cash flow (a x 0.5 x (e(vii) – e(vi))) + (a x e(vi))	(40,349)				
g. Projected earnings for plan year (d + f) 1,932,348					
h. Net investment income (c – b – e(vii))	1,374,958				
i. Investment earnings (gain)/loss (g - h)	<u>\$ 557,390</u>				
j. Amount recognized in Pension Expense (i / 5)	<u>\$ 111,478</u>				

The current year portions of previously determined experience, assumption and earnings amounts, recognized as deferred outflows and inflows (see Section V) are included also. Deferred outflows are added to the PE while deferred inflows are subtracted from the PE. Finally, administrative expenses and other miscellaneous items are included.



The calculation of the Collective Pension Expense determined as of the measurement date is shown in the following table:

Collective Pension Expense Determined as of the Measurement Date (\$ thousands)	
Service Cost at end of year	\$ 677,424
Interest on the TPL and net cash flow	2,731,895
Current-period benefit changes	0
Expensed portion of current-period difference between expected and actual experience in the total pension liability	124,951
Expensed portion of current-period changes of assumptions	0
Member contributions	(515,003)
Projected earnings on plan investments	(1,932,348)
Expensed portion of current-period differences between projected and actual earnings on plan investments	111,478
Administrative expense	31,111
Other	0
Recognition of beginning deferred outflows of resources as pension expense	263,086
Recognition of beginning deferred inflows of resources as pension expense	(239,894)
Collective Pension Expense	<u>\$ 1,252,700</u>



#### SECTION V - REQUIRED SUPPLEMENTARY INFORMATION

Paragraphs 81(a)-(b): CMC was not required to supply this information.

#### Paragraph 82:

**Changes of benefit terms.** The member contribution rates were increased from 5.00% (6.00% for certified law enforcement, correctional officers, and firefighters) of earnable compensation to 7.25% (8.25%) of earnable compensation effective October 1, 2011, and to 7.50% (8.50%) of earnable compensation effective October 1, 2012. Members hired on or after January 1, 2013 (Tier II), are covered under a new benefit structure, as follows:

- (i) A service retirement allowance is payable upon the request of any member who has attained age 62 and completed at least 10 years of creditable service (age 56 with 10 years of creditable service for a full-time certified firefighter, police officer or correctional officer).
- (ii) Upon service or disability retirement a member receives a retirement allowance equal to 1.65% of the member's average final compensation multiplied by the number of years of creditable service. The benefit is capped at 80% of the member's average final compensation (the 5 highest years in the last 10 years of Creditable Service).
- (iii) Regular members contribute 6% of salary and full-time certified firefighters, police officers and correctional officers contribute 7% of salary.

#### Changes of assumptions.

In 2018, the discount rate was changed from 7.75% to 7.70%.

In 2016, rates of retirement, disability, withdrawal and mortality were adjusted to more closely reflect actual experience. In 2016, economic assumptions and the assumed rates of salary increase were adjusted to more closely reflect actual and anticipated experience. In 2016 the expectation of retired life mortality as changed to the RP-2000 White Collar Mortality Table projected to 2020 using scale BB and adjusted 115% for all ages for males and 112% for ages 78 and over for females. The rates of disabled mortality were based on the RP-2000 Disabled Mortality Table projected to 2020 using scale BB and adjusted 105% for males and 120% for females.

In 2010 and later, the expectation of retired life mortality was changed to the RP-2000 Mortality Tables rather than the 1994 Group Annuity Mortality Table, which was used prior to 2010. In 2010, rates of withdrawal, retirement, disability and mortality were adjusted to more closely reflect actual experience. In 2010, assumed rates of salary increase were adjusted to more closely reflect actual and anticipated experience.



# **SCHEDULE A**

# Teachers' Retirement System of Alabama Schedule of Employer Allocations For the Fiscal Year Ended September 30, 2020 (Dollar Amounts Not in Thousands)

Employer	Employer Code	2020 Annualized Employer Contributions	2020 Employer Allocation Percentage
Accel Academy Charter School	TACL	\$ 143,345	0.016620%
AL School of Cyber Tech & Engineering	TCYB	76,475	0.008867%
Alabama A&M University	TAMI	6,049,057	0.701360%
Alabama Association of School Boards	TAAB	143,656	0.016656%
Alabama Education Association	TAEA	740,890	0.085903%
Alabama Fire College	TAFC	340,194	0.039444%
Alabama High School Athletic Association	TAAA	160,822	0.018647%
Alabama Higher Education Partnership	TAHP	26,650	0.003090%
Alabama Industrial Development Training	TIDT	1,347,926	0.156286%
Alabama Institute for Deaf and Blind	TAID	4,943,237	0.573146%
Alabama Retired State Employees Association	TREA	58,542	0.006788%
Alabama School of Fine Arts	THFA	607,301	0.070414%
Alabama State Employees Association	TASE	98,199	0.011386%
Alabama State University	TMST	5,532,966	0.641522%
Alabama Technology Network	TATN	556,127	0.064480%
Alabama Vocational Association	TAVA	12,118	0.001405%
Alabaster City School System	TALR	4,348,444	0.504182%
Albertville City Board of Education	TALB	3,283,392	0.380694%
Alexander City Board of Education	TALX	2,014,353	0.233555%
Andalusia City Board of Education	TADL	1,006,582	0.116709%
Anniston Board of Education	TANN	1,454,999	0.168700%
Arab City Board of Education	TARB	1,775,216	0.205828%
Athens City Board of Education	TATH	2,947,234	0.341718%
Athens State University	TATC	2,297,407	0.266374%
Attalla City Schools	TATT	1,008,183	0.116894%
Auburn City Board of Education	TAUB	6,184,759	0.717094%
Auburn University	TAPI	57,592,366	6.677570%



Employer	Employer Code	2020 Annualized Employer Contributions	2020 Employer Allocation Percentage
Autauga County Board of Education	TATG	5,593,728	0.648567%
Baldwin County Board of Education	TBLD	21,703,855	2.516462%
Barbour County Schools	TBAR	604,554	0.070095%
Bessemer Board of Education	TBSM	2,607,807	0.302363%
Bevill State Community College	TWCT	2,098,998	0.243369%
Bibb County Board of Education	TBIB	2,013,981	0.233512%
Birmingham City Schools	TBMH	17,138,184	1.987094%
Bishop State Community College	TMJC	1,555,455	0.180348%
Blount County Board of Education	TBLT	4,919,721	0.570419%
Boaz City Board of Education	TBOZ	1,618,961	0.187711%
Brewton City Board of Education	TBWT	817,232	0.094754%
Bullock County Board of Education	TBLK	985,758	0.114294%
Butler County Board of Education	TBLR	1,904,453	0.220813%
Calhoun Community College	TDEC	3,196,365	0.370604%
Calhoun County Board of Education	TCAL	5,400,832	0.626202%
CAPNA, Inc.	TNCA	1,539,621	0.178512%
Central Alabama Community College	TACC	931,160	0.107964%
Chambers County Board of Education	TCHB	2,422,900	0.280924%
Chattahoochee Valley Community College	TCVS	814,277	0.094412%
Cherokee County Board of Education	TCHK	2,825,645	0.327621%
Chickasaw City School System	TCKW	778,069	0.090214%
Chilton County Board of Education	TCHT	4,743,369	0.549972%
Choctaw County Board of Education	TCHW	864,443	0.100228%
Clarke County Board of Education	TCLK	1,626,584	0.188595%
Clay County Board of Education	TCLY	1,229,621	0.142569%
Cleburne County Board of Education	TCLB	1,708,694	0.198115%
Coastal Alabama Community College	TBMC	3,021,809	0.350365%
Coffee County Board of Education	TCOF	1,390,454	0.161217%
Colbert County Board of Education	TCOL	2,207,569	0.255957%
Community Svc Programs of West Alabama	TCSP	679,285	0.078760%
Conecuh County Board of Education	TCON	1,214,244	0.140786%
Coosa County Board of Education	TCSA	600,281	0.069600%
Council for Leaders in Alabama Schools	TACA	80,410	0.009323%
Covington County Board of Education	TCOV	2,095,101	0.242917%
Crenshaw County Board of Education	TCRW	1,492,324	0.173028%



Employer	Employer Code	2020 Annualized Employer Contributions	2020 Employer Allocation Percentage
Cullman City Board of Education	TCMN	2,051,153	0.237822%
Cullman County Commission on Education	TCUL	5,963,099	0.691394%
Dale County Board of Education	TDAL	2,050,611	0.237759%
Daleville City Board of Education	TDLV	723,658	0.083905%
Dallas County Board of Education	TDLS	2,356,570	0.273233%
Dauphin Island Sea Lab	TMES	633,439	0.073444%
Decatur Board of Education	TDTR	6,359,217	0.737322%
Dekalb County Board of Education	TDKB	5,902,156	0.684328%
Demopolis City Schools	TDPL	1,403,653	0.162747%
Developing Alabama Youth Foundation	TDAY	64,998	0.007536%
Dothan Board of Education	TDTN	6,017,282	0.697676%
Elba City Board of Education	TELB	462,354	0.053608%
Elmore County Board of Education	TELM	7,069,521	0.819678%
Enterprise Board of Education	TENP	3,993,477	0.463025%
Enterprise Ozark Community College	TEPC	972,406	0.112746%
Escambia County Board of Education	TESC	3,005,540	0.348479%
Etowah County Board of Ed	TETH	5,661,116	0.656380%
Etowah County Community Service Program, Inc.	TECA	17,824	0.002067%
Eufaula City Board of Education	TEFL	1,933,781	0.224213%
Fairfield Board of Education	TFRF	1,109,035	0.128588%
Fayette County Board of Education	TFAY	1,540,571	0.178622%
Florence City Board of Education	TFLO	3,403,638	0.394636%
Fort Payne City Board of Education	TFTP	2,046,591	0.237293%
Franklin County Board of Education	TFRK	2,652,363	0.307529%
Gadsden City Board of Education	TGDS	3,705,263	0.429608%
Gadsden State Community College	TGDC	2,669,998	0.309574%
Geneva City Board of Education	TGCB	894,628	0.103728%
Geneva County Board of Education	TGEN	1,611,251	0.186817%
George Corley Wallace State Community College	TGWS	1,040,872	0.120684%
Greene County Board of Education	TGRN	854,202	0.099041%
Gulf Shores City Board of Education	TGSC	1,420,136	0.164658%
Guntersville City Board of Education	TGUN	1,324,875	0.153613%
H. Councill Trenholm State Technical College	TMGT	1,185,809	0.137489%
Hale County Board of Education	THAL	1,576,722	0.182814%
Haleyville City Board of Education	THAV	1,169,272	0.135572%



Employer	Employer Code	2020 Annualized Employer Contributions	2020 Employer Allocation Percentage
Hartselle City Board of Education	THCS	2,461,087	0.285352%
Henry County Board of Education	THNY	1,651,816	0.191520%
Homewood City Board of Education	THOM	3,891,697	0.451224%
Hoover City Board of Education	THOV	11,983,926	1.389481%
Houston County Board of Education	THST	3,585,181	0.415685%
Huntsville City Schools	THTS	15,496,748	1.796777%
J. F. Drake State Technical College	THVS	560,757	0.065017%
J. F. Ingram State Technical College	TDRT	883,698	0.102461%
Jackson County Board of Education	TJKS	3,837,365	0.444925%
Jacksonville City Board of Education	TJCS	1,053,834	0.122187%
Jacksonville State University	TJST	7,110,900	0.824476%
Jasper City Board of Education	TJSP	1,917,774	0.222357%
Jefferson County American Federation of Teachers	TJFT	19,128	0.002218%
Jefferson County Board of Education	TJEF	25,079,902	2.907899%
Jefferson State Community College	TJJC	2,955,683	0.342698%
Lamar County Schools	TLAM	1,325,591	0.153696%
Lanett City Schools	TLNT	642,795	0.074529%
Lauderdale County Board of Ed	TLAU	5,536,756	0.641961%
Law Enforcement AcademyBaldwin County	TSWP	18,976	0.002200%
Law Enforcement AcademyTuscaloosa	TLET	22,239	0.002579%
Lawrence County Board of Education	TLAW	3,226,379	0.374084%
Lawson State College	TLSC	1,874,456	0.217335%
Lee County Board of Education	TLEE	6,534,776	0.757677%
Leeds Board of Education, City of	TLDS	1,361,696	0.157882%
Limestone County Board of Education	TLST	5,390,805	0.625039%
Linden City Board of Education	TLND	377,460	0.043765%
Lowndes County Board of Education	TLDN	1,185,685	0.137475%
Lurleen B. Wallace Community College	TLUR	965,574	0.111954%
Macon County Board of Education	TMAC	1,437,094	0.166624%
Madison City Board of Education	TMDC	7,933,796	0.919887%
Madison County Board of Education	TMAD	12,952,448	1.501777%
Marengo County Board of Education	TMNG	794,940	0.092170%
Marion County Board of Education	TMAR	2,148,168	0.249070%
Marion Military Institute	TMMI	706,955	0.081968%
Marshall County Board of Education	TMSH	3,933,093	0.456024%



Employer	Employer Code	2020 Annualized Employer Contributions	2020 Employer Allocation Percentage
Midfield City Board of Education	TMID	782,798	0.090762%
Mobile School Commissioners	TMOB	36,141,031	4.190387%
Monroe County Board of Education	TMON	2,309,626	0.267791%
Montgomery City and County Board of Education	TMTG	18,548,597	2.150625%
Morgan County Board of Education	TMOR	5,227,804	0.606140%
Mountain Brook City Board of Education	TMTB	4,448,071	0.515733%
Muscle Shoals City Schools	TMSC	1,956,115	0.226803%
Northeast Alabama Community College	TNEC	1,182,647	0.137122%
Northwest Shoals Community College	TNWC	1,650,223	0.191336%
Oneonta City Board of Education	TONE	912,103	0.105754%
Opelika City Board of Education	TOPK	3,339,463	0.387195%
Opp City Board of Education	TOPP	920,902	0.106774%
Organized Community Action Program Inc	TOCA	434,530	0.050382%
Oxford City Schools	TOXF	2,926,496	0.339314%
Ozark City Board of Education	TOZK	1,414,046	0.163952%
Pelham City Board of Education	TPLS	2,227,411	0.258258%
Pell City School System	TPEL	2,555,103	0.296252%
Perry County Board of Education	TPRY	919,813	0.106648%
Phenix City Board of Education	TPHC	4,543,017	0.526742%
Pickens County Board of Education	TPKS	1,711,149	0.198400%
Piedmont City Schools	TPMT	783,466	0.090839%
Pike County Board of Education	TPIK	1,538,938	0.178433%
Pike Road City Schools	TPRB	1,164,638	0.135034%
Randolph County Board of Education	TRAN	1,543,011	0.178905%
Reid State Technical College	TEVN	430,112	0.049870%
Roanoke City Schools	TROK	847,754	0.098293%
Russell County Board of Education	TRUS	2,374,609	0.275325%
Russellville City Board of Education	TRSV	1,787,181	0.207215%
Saraland Board of Education	TSAR	1,881,542	0.218156%
Satsuma City Schools	TSTM	866,399	0.100455%
School Superintendents of Alabama	TSAL	61,357	0.007114%
Scottsboro Board of Education	TSCO	1,628,311	0.188795%
Selma Public Schools	TSMA	2,044,509	0.237051%
Sheffield City Board of Education	TSHF	851,256	0.098699%
Shelby County Board of Education	TSBY	15,248,854	1.768035%



Employer	Employer Code	2020 Annualized Employer Contributions	2020 Employer Allocation Percentage
Shelton State Community College	TTVS	2,308,772	0.267692%
Snead State Community College	TSJC	938,498	0.108815%
Southern Union State Community College	TSUC	1,785,030	0.206966%
Special Programming for Achievement Network	TBSC	287,593	0.033345%
St. Clair County Board of Education	TSTC	5,359,260	0.621382%
State of AlabamaCommission on Higher Education	TCHE	295,918	0.034310%
State of AlabamaDepartment of Rehab Services	TDRS	5,178,117	0.600379%
State of AlabamaDepartment of Post-Secondary Ed	TPSE	1,223,597	0.141870%
State of AlabamaDepartment of Youth Services	TDYS	2,302,876	0.267008%
State of AlabamaHigh School of Math & Science	THMS	395,357	0.045840%
State of AlabamaPEEHIP	TPHP	317,130	0.036772%
State of AlabamaState Board of Education	TSBE	6,120,560	0.709651%
State of AlabamaTeachers Retirement System	TTRS	2,005,538	0.232533%
Sumter County Board of Education	TSUM	959,054	0.111198%
Sylacauga City Board of Education	TSYL	1,393,318	0.161549%
Talladega City Board of Education	TTAL	1,412,067	0.163723%
Talladega County Board of Education	TTDG	4,965,648	0.575744%
Tallapoosa County Board of Education	TTPS	1,919,401	0.222546%
Tallassee City Board of Education	TTAS	1,142,559	0.132474%
Tarrant Board of Education	TTAR	898,134	0.104135%
Thomasville City Schools	TTOM	791,849	0.091811%
Troy City Board of Education	TTRY	1,223,363	0.141843%
Troy University	TTST	11,100,020	1.286996%
Trussville City Board of Education	TTCB	3,484,753	0.404041%
Tuscaloosa City Schools	TTUS	8,516,461	0.987445%
Tuscaloosa County Schools	TTLS	11,964,536	1.387233%
Tuscumbia City Board of Education	TTSC	1,016,167	0.117820%
University Chancellor's Office	TUCO	1,529,237	0.177308%
University Charter School	TUWC	214,653	0.024888%
University of Alabama	TUVA	51,566,266	5.978872%
University of AlabamaBirmingham	TUMC	98,542,871	11.425593%
University of AlabamaHuntsville	TUAH	13,422,997	1.556335%
University of Montevallo	TALC	3,558,637	0.412608%
University of North Alabama	TFST	6,097,899	0.707023%
University of South Alabama	TUSA	22,004,578	2.551330%



Employer	Employer Code	2020 Annualized Employer Contributions	2020 Employer Allocation Percentage
University of West Alabama	TLVC	3,098,516	0.359259%
Vestavia Hills Board of Education	TVES	6,209,409	0.719952%
Walker County Board of Education	TWLK	4,816,956	0.558504%
Wallace Community CollegeDothan	TGWD	2,210,545	0.256303%
Wallace State CollegeHanceville	TCUT	2,210,619	0.256311%
Washington County Board of Education	TWSH	1,737,869	0.201498%
Wilcox County Board of Education	TWIL	1,126,404	0.130601%
Winfield City Board of Education	TWFD	870,428	0.100922%
Winston Education Board	TWIN	1,758,698	0.203913%
Woodlawn Comm Charter School (i3 Academy)	TWDL	107,387	0.012451%
Total		\$ <u>862,474,870</u>	<u>100.000000%</u>



## SCHEDULE B

# Teachers' Retirement System of Alabama Schedule of Pension Amounts by Employer As of and for the Fiscal Year Ended September 30, 2021 with Net Pension Liability as of September 30, 2020 (Dollar Amounts in Thousands)

			Deferred Outflows of Resources						Deferred Inflo	ws of Resources	Pension Expense			
Employer	Employer Code	2020 Net Pension Liability	Differences Between Expected and Actual Experience	Earnings on Pension Plan	Change of Assumptions	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Outflows of Resources	Differences Between Expected and Actual Experience	Change of Assumptions	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Inflows of	Proportionate Share of Plan Pension Expense	Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Employer Pension Expense
Accel Academy Charter School	TACL	\$ 2,056	\$ 102	\$ 153	\$ 21	\$ 571	\$ 847	\$ 36	\$ -	\$ 61	\$ 97	\$ 208	\$ 309	\$ 517
AL School of Cyber Tech & Engineering	TCYB	1,097	54	81	11	667	813	19		• •	19	112	179	291
Alabama A&M University	TAMI	86.756	4,294	6.443	902	197	11.836	1,505	_	1,860	3,365	8,786	(366)	8,420
Alabama Association of School Boards	TAAB	2,060	102	153	21	29	305	36	_	34	70	209	12	221
Alabama Education Association	TAEA	10,626	526	789	111	190	1.616	184	_	446	630	1,076	(347)	729
Alabama Fire College	TAFC	4,879	241	362	51	353	1.007	85	_	239	324	495	35	530
Alabama High School Athletic Association	TAAA	2,307	114	171	24	102	411	40	_	30	70	235	43	278
Alabama Higher Education Partnership	TAHP	382	19	28	4	3	54	7	_	19	26	39	(9)	30
Alabama Industrial Development Training	TIDT	19,332	957	1.436	201	1,201	3.795	335	_	456	791	1,958	243	2,201
Alabama Institute for Deaf and Blind	TAID	70,896	3,509	5,265	737	1,209	10,720	1,230	_	41	1,271	7,180	529	7,709
Alabama Retired State Employees Association	TREA	840	42	62	9	28	141	15	_	15	30	85	4	89
Alabama School of Fine Arts	THEA	8.710	431	647	91	398	1,567	151	_	62	213	881	146	1,027
Alabama State Employees Association	TASE	1,408	70	105	15	26	216	24	_	119	143	140	(60)	80
Alabama State University	TMST	79,354	3,927	5,893	825	29	10,674	1,376	_	3,196	4,572	8,038	(2,642)	5,396
Alabama Technology Network	TATN	7.976	395	592	83	280	1,350	138	_	528	666	808	(170)	638
Alabama Vocational Association	TAVA	174	9	13	2	53	77	3	_	020	3	17	14	31
Alabaster City School System	TALR	62,366	3,087	4,632	649	1,609	9,977	1,082	_	1,326	2,408	6,315	602	6,917
Albertville City Board of Education	TALB	47.091	2,331	3,497	490	2,377	8.695	817	_	880	1,697	4,769	786	5,555
Alexander City Board of Education	TALX	28.890	1.430	2.146	300	362	4.238	501	_	581	1.082	2,926	(19)	2,907
Andalusia City Board of Education	TADL	14,436	714	1,072	150	486	2,422	250	_	1.053	1,303	1,463	(148)	1,315
Anniston Board of Education	TANN	20,868	1,033	1,550	217	3,464	6,264	362	_	4,266	4,628	2,113	(418)	1,695
Arab City Board of Education	TARB	25,460	1,260	1.891	265	1,210	4.626	442	_	546	988	2,578	102	2.680
Athens City Board of Education	TATH	42,269	2,092	3,139	440	2,149	7,820	733	_	607	1,340	4,280	906	5,186
Athens State University	TATC	32,950	1,631	2,447	343	1,753	6,174	571	_	630	1,201	3,335	433	3,768
Attalla City Schools	TATT	14,459	716	1.074	150	448	2,388	251	_	1,679	1,930	1,463	(336)	1,127
Auburn City Board of Education	TAUB	88,702	4,390	6.588	923	4,546	16,447	1,538	_	20	1,558	8,982	1,786	10,768
Auburn University	TAPI	825,992	40,880	61.344	8,591	35,746	146,561	14,325	_	4,884	19,209	83,649	14,934	98,583
Autauga County Board of Education	TATG	80.225	3,970	5.958	834	2,324	13,086	1,391	_	1,749	3,140	8,126	52	8,178
Baldwin County Board of Education	TBLD	311,278	15,406	23,118	3,238	9,483	51,245	5,399	_	1,740	5,399	31,523	3,992	35,515
Barbour County Schools	TBAR	8.671	429	644	90	44	1.207	150	_	435	585	879	(205)	674
Bessemer Board of Education	TBSM	37,401	1,851	2.778	389	876	5.894	649	_	1,531	2,180	3,787	(346)	3,441
Bevill State Community College	TWCT	30,104	1,490	2,236	313	768	4,807	522	_	1,877	2,399	3,049	(263)	2,786
Bibb County Board of Education	TBIB	28,885	1,430	2,145	300	515	4.390	501	_	2,616	3,117	2,926	(520)	2,406
Birmingham City Schools	TBMH	245.797	12.165	18.254	2.557	6.444	39,420	4.263	-	11,033	15,296	24,893	(1,445)	23,448
Bishop State Community College	TMJC	22,308	1,104	1,657	232	854	3,847	387	_	2,150	2,537	2,259	(941)	1,318
Blount County Board of Education	TBLT	70,559	3,492	5,240	734	1,850	11,316	1,224	_	1,430	2,654	7,146	(119)	7,027
Boaz City Board of Education	TBOZ	23,219	1,149	1,724	242	1,217	4,332	403	_	850	1,253	2,352	263	2,615
Brewton City Board of Education	TBWT	11,721	580	870	122	572	2,144	203	_	254	457	1,187	76	1,263



			Deferred Outflows of Resources						Deferred Inflows of Resources				Pension Expense		
			Differences	Net Difference Between Projected and Actual Investment	Outflows of F	Changes in Proportion and Differences Between Employer Contributions	Total	Differences	Deterred Inflo	Changes in Proportion and Differences Between Employer Contributions	Total	<u> </u>	Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions		
	Employer	2020 Net Pension	Between Expected and Actual	Earnings on Pension Plan	Change of	and Proportionate Share of	Deferred Outflows of	Between Expected and Actual	Change of	and Proportionate Share of	Deferred Inflows of	Proportionate Share of Plan Pension	and Proportionate Share of	Total Employer Pension	
Employer	Code	Liability	Experience	Investments	Assumptions	Contributions	Resources	Experience	Assumptions	Contributions	Resources	Expense	Contributions	Expense	
Bullock County Board of Education	TBLK	14,138	700	1,050	147	223	2,120	245	-	630	875	1,432	(264)	1,168	
Butler County Board of Education	TBLR	27,314	1,352	2,029	284	466	4,131	474	-	1,566	2,040	2,765	(595)	2,170	
Calhoun Community College	TDEC	45,842	2,269	3,405	477	2,471	8,622	795	-	404	1,199	4,641	764	5,405	
Calhoun County Board of Education	TCAL	77,459	3,834	5,753	806	1,426	11,819	1,343	-	8,036	9,379	7,843	(1,669)	6,174	
CAPNA, Inc.	TNCA	22,081	1,093	1,640	230	277	3,240	383	-	498	881	2,235	126	2,361	
Central Alabama Community College	TACC	13,355	661	992	139	19	1,811	232	-	684	916	1,353	(295)	1,058	
Chambers County Board of Education	TCHB	34,749	1,720	2,581	361	444	5,106	603	-	897	1,500	3,520	(208)	3,312	
Chattahoochee Valley Community College	TCVS	11,678	578	867	121	787	2,353	203	-	76	279	1,183	187	1,370	
Cherokee County Board of Education	TCHK	40,526	2,006	3,010	422	1,195	6,633	703	-	1,211	1,914	4,104	181	4,285	
Chickasaw City School System	TCKW	11,159	552	829	116	979	2,476	194	-	4 445	194	1,130	521	1,651	
Chilton County Board of Education	TCHT TCHW	68,030	3,367	5,052 921	708 129	2,574 21	11,701	1,180	-	1,115 1.583	2,295 1.798	6,889	501	7,390 725	
Choctaw County Board of Education Clarke County Board of Education	TCLK	12,398 23,329	614 1,155	1,733	243	39	1,685 3,170	215 405	-	2,660	3,065	1,254 2,362	(529) (1,018)	1,344	
Clay County Board of Education	TCLY	17,635	873	1,733	183	570	2,936	306	-	2,660	970	1,786	(1,018)	1,622	
Cleburne County Board of Education	TCLB	24,506	1,213	1,820	255	641	3,929	425	-	995	1,420	2,483	(199)	2,284	
Coastal Alabama Community College	TBMC	43,339	2,145	3,219	451	710	6,525	752	-	1,494	2,246	4,388	(222)	4,166	
Coffee County Board of Education	TCOF	19,942	987	1.481	207	1.010	3.685	346	_	214	560	2,019	337	2,356	
Colbert County Board of Education	TCOL	31,661	1.567	2.351	329	737	4.984	549	_	703	1,252	3,207	55	3,262	
Community Svc Programs of West Alabama	TCSP	9,742	482	724	101	528	1,835	169	_	155	324	986	(1)	985	
Conecuh County Board of Education	TCON	17,415	862	1,293	181	152	2,488	302	_	602	904	1,764	(191)	1,573	
Coosa County Board of Education	TCSA	8,609	426	639	90	49	1,204	149	-	1,005	1,154	871	(377)	494	
Council for Leaders in Alabama Schools	TACA	1,153	57	86	12	101	256	20	-	33	53	116	18	134	
Covington County Board of Education	TCOV	30.048	1.487	2.232	313	841	4.873	521	-	583	1.104	3,042	61	3.103	
Crenshaw County Board of Education	TCRW	21,403	1,059	1,590	223	838	3,710	371	-	698	1,069	2,166	99	2,265	
Cullman City Board of Education	TCMN	29,418	1,456	2,185	306	1,124	5,071	510	-	1,897	2,407	2,979	(101)	2,878	
Cullman County Commission on Education	TCUL	85,523	4,233	6,351	890	3,033	14,507	1,483	-	8,329	9,812	8,660	(1,214)	7,446	
Dale County Board of Education	TDAL	29,410	1,456	2,184	306	923	4,869	510	-	162	672	2,978	340	3,318	
Daleville City Board of Education	TDLV	10,379	514	771	108	377	1,770	180	-	165	345	1,051	(92)	959	
Dallas County Board of Education	TDLS	33,798	1,673	2,510	352	982	5,517	586	-	1,325	1,911	3,422	(441)	2,981	
Dauphin Island Sea Lab	TMES	9,085	450	675	94	300	1,519	158	-	150	308	920	172	1,092	
Decatur Board of Education	TDTR	91,204	4,514	6,773	949	3,920	16,156	1,582	-	7,166	8,748	9,236	(653)	8,583	
Dekalb County Board of Education	TDKB	84,649	4,189	6,287	880	2,364	13,720	1,468	-	1,943	3,411	8,574	441	9,015	
Demopolis City Schools	TDPL	20,131	996	1,495	209	443	3,143	349	-	526	875	2,039	(67)	1,972	
Developing Alabama Youth Foundation	TDAY	932	46	69	10	17	142	16	-	27	43	94	(13)	81	
Dothan Board of Education	TDTN	86,300	4,271	6,409	898	1,663	13,241	1,497	-	2,257	3,754	8,740	(471)	8,269	
Elba City Board of Education	TELB	6,631	328	492	69	172	1,061	115	-	270	385	672	(106)	566	
Elmore County Board of Education	TELM	101,391	5,018	7,530	1,055	3,940	17,543	1,758	-	665	2,423	10,267	935	11,202	
Enterprise Board of Education	TENP	57,275	2,835	4,254	596	2,109	9,794	993	-	5,762	6,755	5,799	(628)	5,171	
Enterprise Ozark Community College	TEPC	13,946	690	1,036	145	338	2,209	242	-	442	684	1,412	(224)	1,188	
Escambia County Board of Education	TESC	43,106	2,133	3,201	448	552	6,334	748	-	1,700	2,448	4,367	(297)	4,070	
Etowah County Board of Ed	TETH	81,192	4,018	6,030	844	2,032	12,924	1,408	-	1,855	3,263	8,223	37	8,260	
Etowah County Community Service Program, Inc.	TECA TEFL	256	13	19 2,060	3 288	6 997	41	4 481	-	8 291	12 772	24	(5) 205	19 3,014	
Eufaula City Board of Education		27,734	1,373				4,718		-			2,809			
Fairfield Board of Education	TFRF TFAY	15,906	787	1,181	165 230	12 681	2,145	276 383	-	849	1,125	1,611	(309)	1,302	
Fayette County Board of Education	TFLO	22,095	1,094	1,641 3,625	508		3,646 8,420	383 847	-	890 726	1,273 1,573	2,237	(168) 203	2,069 5,147	
Florence City Board of Education Fort Payne City Board of Education	TFTP	48,815 29,352	2,416 1,453	2,180	508 305	1,871 1,285	5,223	84 <i>7</i> 509	-	726 151	1,573	4,944 2,973	360	5,147 3,333	
Franklin County Board of Education	TFRK	38,040	1,453	2,180	396	2,243	7,347	660	-	33	693	2,973 3,851	784	4,635	



			Deferred Outflows of Resources						Deferred Inflows of Resources				Pension Expense		
Employer	Employer Code	2020 Net Pension Liability	Differences Between Expected and Actual Experience	Net Difference Between Projected and Actual Investment Earnings on Pension Plan	Change of	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Outflows of Resources	Differences Between Expected and Actual	Change of	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Inflows of	Proportionate Share of Plan Pension Expense	Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Employer Pension Expense	
Gadsden City Board of Education	TGDS	53,141	2,630	3,947	553	1,085	8,215	922	_	1,206	2,128	5,382	(53)	5,329	
Gadsden State Community College	TGDC	38,293	1.895	2.844	398	155	5.292	664		1.832	2,120	3.879	(920)	2,959	
Geneva City Board of Education	TGCB	12,831	635	953	133	544	2,265	223	_	281	504	1,301	124	1,425	
Geneva County Board of Education	TGEN	23,109	1,144	1,716	240	793	3,893	401	-	2,157	2,558	2,341	(222)	2,119	
George Corley Wallace State Community College	TGWS	14,928	739	1,109	155	355	2.358	259	-	608	867	1,511	(208)	1,303	
Greene County Board of Education	TGRN	12,251	606	910	127	14	1,657	212	_	605	817	1,241	(159)	1,082	
Gulf Shores City Board of Education	TGSC	20.368	1.008	1.513	212	13.253	15,986	353	-	-	353	2,062	3.440	5.502	
Guntersville City Board of Education	TGUN	19,001	940	1,411	198	643	3,192	330	-	595	925	1,925	(82)	1,843	
H. Councill Trenholm State Technical College	TMGT	17,007	842	1,263	177	1,104	3,386	295	-	63	358	1,722	198	1,920	
Hale County Board of Education	THAL	22,613	1,119	1,679	235	546	3,579	392	-	1,435	1,827	2,290	(559)	1,731	
Haleyville City Board of Education	THAV	16,770	830	1,245	174	615	2,864	291	-	381	672	1,699	60	1,759	
Hartselle City Board of Education	THCS	35,297	1,747	2,621	367	3,019	7,754	612	-	91	703	3,575	742	4,317	
Henry County Board of Education	THNY	23,690	1,172	1,759	246	1,039	4,216	411	-	410	821	2,401	86	2,487	
Homewood City Board of Education	THOM	55,815	2,762	4,145	581	2,772	10,260	968	-	629	1,597	5,653	654	6,307	
Hoover City Board of Education	THOV	171,874	8,506	12,764	1,788	7,924	30,982	2,981	-	4,431	7,412	17,406	1,247	18,653	
Houston County Board of Education	THST	51,419	2,545	3,819	535	1,478	8,377	892	-	4,712	5,604	5,207	(643)	4,564	
Huntsville City Schools	THTS	222,255	11,000	16,506	2,312	5,710	35,528	3,855	-	9,764	13,619	22,508	(1,100)	21,408	
J. F. Drake State Technical College	THVS	8,042	398	597	84	566	1,645	139	-	686	825	814	(237)	577	
J. F. Ingram State Technical College	TDRT	12,674	627	941	132	175	1,875	220	-	711	931	1,284	(371)	913	
Jackson County Board of Education	TJKS	55,036	2,724	4,087	572	892	8,275	954	-	2,790	3,744	5,574	(567)	5,007	
Jacksonville City Board of Education	TJCS	15,114	748	1,122	157	575	2,602	262	-	299	561	1,531	104	1,635	
Jacksonville State University	TJST TJSP	101,985	5,047	7,574	1,061	6,136	19,818	1,769	-	673	2,442	10,329	1,809	12,138	
Jasper City Board of Education	TJFT	27,505 274	1,361	2,043 20	286	562 15	4,252 52	477 5	-	658 62	1,135 67	2,786 28	(248)	2,538 3	
Jefferson County American Federation of Teachers	TJEF		14		3		58,256		-				(25) 74	-	
Jefferson County Board of Education Jefferson State Community College	TJJC	359,697 42,391	17,802 2,098	26,713 3,148	3,741 441	10,000 1,722	7,409	6,238 735	-	5,501 548	11,739 1,283	36,427 4,293	74 353	36,501 4,646	
Lamar County Schools	TLAM	19,012	2,098	3,146 1.412	198	362	2.913	330	-	1,943	2,273	4,293 1,926	(395)	1,531	
Lanett City Schools	TLNT	9,219	456	685	96	152	1.389	160	_	36	196	934	50	984	
Lauderdale County Board of Ed	TLAU	79,408	3.930	5.897	826	2.529	13.182	1.377	_	1.727	3.104	8,042	364	8,406	
Law Enforcement AcademyBaldwin County	TSWP	272	13	20	3	107	143	5	_	59	64	29	8	37	
Law Enforcement Academy-Tuscaloosa	TLET	319	16	24	3	66	109	6	_	1	7	33	19	52	
Lawrence County Board of Education	TLAW	46,273	2,290	3,437	481	1,531	7,739	803	-	1,204	2,007	4,686	(311)	4,375	
Lawson State College	TLSC	26,884	1,331	1,997	280	539	4,147	466	-	313	779	2,720	179	2,899	
Lee County Board of Education	TLEE	93,722	4,638	6,960	975	2,847	15,420	1,625	-	3,235	4,860	9,492	(336)	9,156	
Leeds Board of Education, City of	TLDS	19,529	967	1,450	203	854	3,474	339	-	226	565	1,978	367	2,345	
Limestone County Board of Education	TLST	77,315	3,826	5,742	804	1,133	11,505	1,341	-	7,672	9,013	7,830	(1,516)	6,314	
Linden City Board of Education	TLND	5,414	268	402	56	121	847	94	-	88	182	549	30	579	
Lowndes County Board of Education	TLDN	17,005	842	1,263	177	309	2,591	295	-	2,042	2,337	1,722	(853)	869	
Lurleen B. Wallace Community College	TLUR	13,848	685	1,028	144	66	1,923	240	-	540	780	1,402	(189)	1,213	
Macon County Board of Education	TMAC	20,611	1,020	1,531	214	294	3,059	357	-	1,242	1,599	2,088	(622)	1,466	
Madison City Board of Education	TMDC	113,787	5,631	8,451	1,183	8,839	24,104	1,973	-		1,973	11,524	3,463	14,987	
Madison County Board of Education	TMAD	185,765	9,194	13,796	1,932	4,920	29,842	3,222	-	6,449	9,671	18,813	(264)	18,549	
Marengo County Board of Education	TMNG	11,401	564	847	119	445	1,975	198	-	314	512	1,155	(80)	1,075	
Marion County Board of Education	TMAR	30,809	1,525	2,288	320	951	5,084	534	-	1,062	1,596	3,121	(138)	2,983	
Marion Military Institute	TMMI TMSH	10,139	502	753	105 587	262	1,622	176 978	-	259 854	435	1,027	88	1,115	
Marshall County Board of Education Midfield City Board of Education	TMSH	56,409 11,227	2,792 556	4,189 834	587 117	1,871 897	9,439 2,404	978 195	-	854 803	1,832 998	5,713 1,137	201 (19)	5,914 1,118	
Mobile School Commissioners	TMOB	518,336	25,653	38,495	5,391	8,143	77,682	8.990	-	18,741	27,731	52,493	(4,552)	47,941	



			Deferred Outflows of Resources						Deferred Inflows of Resources				Pension Expense		
			Differences	Net Difference Between Projected and Actual Investment	Outflows of F	Changes in Proportion and Differences Between Employer Contributions	Total	Differences	Deterred Inflo	Changes in Proportion and Differences Between Employer Contributions	Total	<u> </u>	Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions		
	Employer	2020 Net Pension	Between Expected and Actual	Earnings on Pension Plan	Change of	and Proportionate Share of	Deferred Outflows of	Between Expected and Actual	Change of	and Proportionate Share of	Deferred Inflows of	Proportionate Share of Plan Pension	and Proportionate Share of	Total Employer Pension	
Employer	Code	Liability	Experience	Investments	Assumptions	Contributions	Resources	Experience	Assumptions	Contributions	Resources	Expense	Contributions	Expense	
Monroe County Board of Education	TMON	33,125	1,639	2,460	345	966	5,410	574	-	917	1,491	3,355	(156)	3,199	
Montgomery City and County Board of Education	TMTG	266,025	13,166	19,757	2,767	1,668	37,358	4,614	-	16,420	21,034	26,942	(4,028)	22,914	
Morgan County Board of Education	TMOR	74,977	3,711	5,568	780	1,116	11,175	1,300	-	1,418	2,718	7,592	(294)	7,298	
Mountain Brook City Board of Education	TMTB	63,794	3,157	4,738	664	4,356	12,915	1,106	-	2,809	3,915	6,460	266	6,726	
Muscle Shoals City Schools	TMSC	28,055	1,388	2,084	292	972	4,736	487	-	2,719	3,206	2,842	(173)	2,669	
Northeast Alabama Community College Northwest Shoals Community College	TNEC TNWC	16,962 23.668	839 1.171	1,260 1,758	176 246	833 1.126	3,108 4.301	294 410	-	259 658	553 1.068	1,719 2.396	157 (142)	1,876 2,254	
Oneonta City Board of Education	TONE	13,081	647	972	136	544	2,299	227	-	152	379	1,324	113	1,437	
Opelika City Board of Education	TOPK	47,895	2,370	3,557	498	1,341	7,766	831		1,246	2,077	4,851	278	5,129	
Opp City Board of Education	TOPP	13,208	654	981	137	554	2,326	229		174	403	1,337	123	1,460	
Organized Community Action Program Inc	TOCA	6,232	308	463	65	-	836	108	_	387	495	631	(149)	482	
Oxford City Schools	TOXF	41.972	2.077	3.117	437	1.620	7.251	728	-	1.326	2.054	4,250	101	4,351	
Ozark City Board of Education	TOZK	20,280	1,004	1,506	211	619	3,340	352	-	695	1,047	2,054	(294)	1,760	
Pelham City Board of Education	TPLS	31,946	1,581	2,372	332	1,031	5,316	554	-	136	690	3,236	249	3,485	
Pell City School System	TPEL	36,645	1,814	2,722	381	1,460	6,377	636	-	1,178	1,814	3,711	(131)	3,580	
Perry County Board of Education	TPRY	13,192	653	980	137	27	1,797	229	-	916	1,145	1,336	(530)	806	
Phenix City Board of Education	TPHC	65,156	3,225	4,839	678	2,261	11,003	1,130	-	1,108	2,238	6,597	296	6,893	
Pickens County Board of Education	TPKS	24,541	1,215	1,823	255	395	3,688	426	-	1,353	1,779	2,484	(247)	2,237	
Piedmont City Schools	TPMT	11,236	556	834	117	382	1,889	195	-	377	572	1,138	(24)	1,114	
Pike County Board of Education	TPIK	22,072	1,092	1,639	230	1,067	4,028	383	-	1,920	2,303	2,237	(140)	2,097	
Pike Road City Schools	TPRB	16,703	827	1,240	174	4,606	6,847	290	-	-	290	1,692	1,892	3,584	
Randolph County Board of Education	TRAN	22,130	1,095	1,644	230	886	3,855	384	-	619	1,003	2,242	139	2,381	
Reid State Technical College	TEVN TROK	6,169	305 602	458 903	64 126	273 317	1,100 1,948	107 211	-	189 1,135	296 1,346	625 1,233	(216) (180)	409 1,053	
Roanoke City Schools	TRUS	12,159		2,529	354	317 1,375		591	-				(180)	3,728	
Russell County Board of Education Russellville City Board of Education	TRSV	34,057 25,632	1,686 1,269	1,904	267	1,375 845	5,944 4,285	445	-	468 778	1,059 1,223	3,450 2,594	68	2,662	
Saraland Board of Education	TSAR	26,985	1,336	2,004	281	1,525	5,146	468	_	101	569	2,733	732	3,465	
Satsuma City Schools	TSTM	12,426	615	923	129	984	2,651	216	_	143	359	1,259	287	1,546	
School Superintendents of Alabama	TSAL	880	44	65	9	70	188	15	_	54	69	88	46	134	
Scottsboro Board of Education	TSCO	23,353	1,156	1,734	243	241	3,374	405	_	2,183	2,588	2,365	(643)	1,722	
Selma Public Schools	TSMA	29,322	1,451	2,178	305	158	4,092	509	-	2,942	3,451	2,971	(1,183)	1,788	
Sheffield City Board of Education	TSHF	12,209	604	907	127	420	2,058	212	-	454	666	1,237	(98)	1,139	
Shelby County Board of Education	TSBY	218,700	10,824	16,242	2,275	8,259	37,600	3,793	-	3,996	7,789	22,148	726	22,874	
Shelton State Community College	TTVS	33,113	1,639	2,459	344	870	5,312	574	-	425	999	3,354	(98)	3,256	
Snead State Community College	TSJC	13,460	666	1,000	140	552	2,358	233	-	127	360	1,362	168	1,530	
Southern Union State Community College	TSUC	25,601	1,267	1,901	266	1,240	4,674	444	-	52	496	2,593	224	2,817	
Special Programming for Achievement Network	TBSC	4,125	204	306	43	153	706	72	-	127	199	419		419	
St. Clair County Board of Education	TSTC	76,863	3,804	5,708	799	3,192	13,503	1,333	-	6,222	7,555	7,784	(321)	7,463	
State of Alabama - Commission on Higher Education	TCHE	4,244	210	315	44 772	229	798	74	-	133	207	430	40	470	
State of AlabamaDepartment of Rehab Services State of AlabamaDepartment of Post-Secondary Ed	TDRS TPSE	74,265 17,549	3,675 869	5,515 1,303	772 183	2,703 3,858	12,665 6,213	1,288 304	-	577	1,865 304	7,522 1,777	299 1,468	7,821 3,245	
State of AlabamaDepartment of Post-Secondary Ed State of AlabamaDepartment of Youth Services	TDYS	33,028	1,635	2,453	344	3,858 1,407	5,839	304 573	-	982	1,555	3,344	(264)	3,245	
State of AlabamaHigh School of Math & Science	THMS	5,670	281	421	59	398	1,159	98	-	302	98	5,344 574	137	711	
State of AlabamaPEEHIP	TPHP	4.549	225	338	47	301	911	79	_	5	84	461	130	591	
State of AlabamaState Board of Education	TSBE	87,781	4.344	6.519	913	3,669	15,445	1,522	_	2,821	4,343	8,891	(709)	8,182	
State of AlabamaTeachers Retirement System	TTRS	28,764	1,424	2,136	299	2,345	6,204	499	_	_,521	499	2,914	1,020	3,934	
Sumter County Board of Education	TSUM	13,755	681	1,022	143	18	1,864	239	-	2,371	2,610	1,393	(751)	642	
Sylacauga City Board of Education	TSYL	19,983	989	1,484	208	387	3,068	347	-	2,202	2,549	2,024	(579)	1,445	



			Deferred Outflows of Resources			Deferred Inflows of Resources			<u> </u>	Pension Expense				
Employer	Employer Code	2020 Net Pension Liability	Expected and Actual	Earnings on Pension Plan	Change of Assumptions	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Outflows of Resources	Differences Between Expected and Actual Experience	Change of Assumptions	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Inflows of	Proportionate Share of Plan Pension Expense	Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Employer Pension Expense
Talladega City Board of Education	TTAL	20.252	1.002	1,504	211	608	3.325	351	-	856	1,207	2,051	20	2,071
Talladega County Board of Education	TTDG	71,218	3.525	5.289		1.731	11,286	1.235	-	1.665	2,900	7,213	(165)	7,048
Tallapoosa County Board of Education	TTPS	27.528	1,362	2.044		906	4.598	477	-	395	872	2,788	(23)	2,765
Tallassee City Board of Education	TTAS	16,387	811	1,217	170	380	2,578	284	-	653	937	1,660	(158)	1,502
Tarrant Board of Education	TTAR	12,881	638	957	134	442	2,171	223	-	209	432	1,303	98	1,401
Thomasville City Schools	TTOM	11.357	562	843	118	14	1.537	197	-	1.202	1,399	1,151	(368)	783
Troy City Board of Education	TTRY	17,545	868	1,303		102	2,455	304	-	1,408	1,712	1,777	(414)	1,363
Troy University	TTST	159,197	7.879	11.823		1.486	22.844	2.761	-	7.679	10,440	16,122	(3,283)	12.839
Trussville City Board of Education	TTCB	49,978	2,474	3,712		2,875	9,581	867	-	591	1,458	5,060	1,077	6,137
Tuscaloosa City Schools	TTUS	122,143	6.045	9.071	1.270	4,567	20,953	2.118	-	896	3,014	12,369	1,775	14,144
Tuscaloosa County Schools	TTLS	171,596	8.493	12,744	, -	6,903	29,925	2,976	-	3.780	6,756	17,377	2,052	19,429
Tuscumbia City Board of Education	TTSC	14.574	721	1.082		801	2.756	253	-	1.087	1,340	1,477	(9)	1,468
University Chancellor's Office	TUCO	21,932	1,085	1,629		1,541	4,483	380	-	259	639	2,221	520	2,741
University Charter School	TUWC	3.079	152	229		1,403	1,816	53	-	145	198	312	474	786
University of Alabama	TUVA	739,566	36,602	54,925		22,805	122,024	12,826	-	8,544	21,370	74,897	10,813	85,710
University of AlabamaBirmingham	TUMC	1,413,306	69,940	104.961	14,700	13,900	203,501	24,506	-	34,812	59,318	143,121	(10,596)	132,525
University of AlabamaHuntsville	TUAH	192,513	9,528	14,297	2,002	8,974	34,801	3,339	-	4,311	7,650	19,497	298	19,795
University of Montevallo	TALC	51,038	2,526	3,790		298	7,145	885	-	377	1,262	5,169	350	5,519
University of North Alabama	TFST	87,456	4,328	6.495	910	4,715	16,448	1,517	-	41	1,558	8,856	1,464	10,320
University of South Alabama	TUSA	315,584	15,619	23,438			42,339	5.473	-	30,825	36,298	31,962	(13,117)	18,845
University of West Alabama	TLVC	44,439	2,199	3,300		867	6,828	771	-	691	1,462	4,502	253	4,755
Vestavia Hills Board of Education	TVES	89,056	4.407	6.614		4,469	16,416	1,545	-	1,489	3,034	9,020	1,449	10,469
Walker County Board of Education	TWLK	69,085	3,419	5,131	719	2,260	11,529	1,198	-	7,919	9,117	6,996	(1,349)	5,647
Wallace Community CollegeDothan	TGWD	31,704	1,569	2,355	330	962	5.216	550	-	712	1,262	3,211	56	3,267
Wallace State CollegeHanceville	TCUT	31,705	1,569	2.355		652	4.906	550	-	863	1,413	3,211	(62)	3.149
Washington County Board of Education	TWSH	24,925	1,234	1.851	259	950	4.294	432	-	1,515	1,947	2,525	(469)	2,056
Wilcox County Board of Education	TWIL	16,155	800	1,200	168	296	2,464	280	-	1,889	2,169	1,635	(536)	1,099
Winfield City Board of Education	TWFD	12,484	618	927	130	444	2,119	217	-	238	455	1,264	91	1,355
Winston Education Board	TWIN	25,223	1,248	1.873		1.018	4.401	437	-	921	1,358	2,555	(270)	2,285
Woodlawn Comm Charter School (i3 Academy)	TWDL	1,540	76	114	16	949	1,155	27			27	156	253	409
Total for All Entities		<u>\$ 12,369,650</u>	<u>\$ 612,192</u>	<u>\$ 918,651</u>	\$ 128,657	\$ 382,782	\$ 2,042,282	<u>\$ 214,530</u>	<u>\$</u>	\$ 382,782	\$ 597,312	<u>\$ 1,252,700</u>	<u>\$</u>	<u>\$ 1,252,700</u>



# SCHEDULE C

# Teachers' Retirement System of Alabama Schedule of Discount Rate Sensitivity, Amortization of Deferred Outflows/(Inflows) and Employer Contribution As of and for the Fiscal Year Ending September 30, 2021 (Dollar Amounts in Thousands)

Employer   Continuation   Continua					Projected Deferred Outflows/(Inflows) To Be Recognized in Pension Expense for the Fiscal Year Ended September 30			2020 Actual			
ALSCHOOL Of Cyber Tech & Engineering TCVB 1.483 787 203 220 221 150 0 0 76 Aubarna AMU Morwarily TAMI 115,790 62,223 1,534 2,281 2,903 1,213 0 0 6,049 Albarna AMU Morwarily TAMI 115,790 62,223 1,534 2,821 2,903 1,213 0 0 6,049 Albarna Association of School Boards TAAB 2,749 7 1,478 4 9 76 73 3 0 0 0 144 Albarna Association of School Boards TAAB 2,749 7 1,478 4 9 76 73 3 0 0 0 144 Albarna Association of School Boards TAAB 2,749 7 1,478 4 9 76 73 3 0 0 0 0 144 Albarna Hybrid Education Patrician Control TAAB 3,077 1,654 8 0 105 98 58 0 0 0 161 Albarna Hybrid Education Patrician Control TAAA 3,077 1,654 8 0 105 98 58 0 0 0 161 Albarna Hybrid Education Patrician Control TAAA 3,077 1,654 8 0 105 98 58 0 0 0 161 Albarna Hybrid Education Patrician Control TAAA 3,077 1,654 8 0 105 98 58 0 0 0 161 Albarna Hybrid Education Patrician Control TAAA 3,077 1,654 8 0 105 98 58 0 0 0 161 Albarna Hybrid Education Patrician Control TAAA 3,077 1,654 8 0 105 98 58 0 0 0 161 Albarna Hybrid Education Patrician Control TAAA 3,077 1,654 8 0 105 98 58 8 0 0 0 161 Albarna Hybrid Education Patrician Control TAAA 3,077 1,654 8 0 105 98 58 18 0 0 0 127 Albarna Hybrid Education Patrician Control TAAA 3,077 1,654 8 0 105 98 58 18 0 0 0 127 Albarna Hybrid Education Patrician Control TAAA 3,077 1,654 8 0 105 98 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Employer				2022	2023	2024	2025	2026	Thereafter	Employer
Ababama ASM (Inversity)         TAMI         115,760         62,223         1,534         2,821         2,903         1,213         0         0         6,049           Ababama Association         TAAB         2,740         1,477         3         49         76         73         37         0         0         1,444           Ababama Education Association         TAAB         1,417         7,627         8         23         36         391         240         0         0         741           Ababama Higher Education Parteraring         TAHP         510         274         (5)         12         13         8         0         0         1,348           Ababama Institute for Deaf and Bind         TAMP         510         274         (5)         12         13         8         0         0         1,348           Alabama Institute for Deaf and Bind         TAMP         510         2,748         2,976         2,993         1,346         0         0         1,348           Alabama Institute for Deaf and Bind         TAMP         1,102         60,948         2,135         2,976         2,993         1,346         0         0         4,943           Alabama Institute for Deaf And And And And A	Accel Academy Charter School	TACL	\$ 2,743	\$ 1,474	\$ 355	\$ 182	\$ 153	\$ 60	\$ 0	\$ 0	\$ 143
Alabama Association of School Boards   TAAB   2,749   1,478   40   76   73   37   0   0   144   144   1477   7621   29   326   391   240   0   0   744   144   1477   7621   29   326   391   240   0   0   744   144   1477   7621   29   326   391   240   0   0   744   144   146   1	AL School of Cyber Tech & Engineering	TCYB	1,463	787	203	220	221	150	0	0	76
Alabama Education Association   TAEA   14,177   7,621   29   326   391   240   0   0   741   Alabama Fire College   14,177   7,621   29   326   391   240   0   0   741   Alabama Fire College   1,174   1,1	Alabama A&M University	TAMI	115,750	62,223	1,534	2,821	2,903	1,213	0	0	6,049
Alabama Five College	Alabama Association of School Boards	TAAB	2,749	1,478	49	76		37	0	0	
Alabama High School Ahleite Association   TAAA   3,077   1,654   80   105   98   58   0   0   161   Alabama Higher Education Patriorehip   TAHP   510   274   (5)   12   13   8   0   0   277   Alabama Industrial Development Training   TIDT   25,733   13,865   590   841   391   642   0   0   1,348   Alabama Higher Education Patriorehip   TAHP   510   274   510   213   8   0   0   277   Alabama Industrial Development Training   TIDT   25,733   13,865   590   841   391   642   0   0   4,943   Alabama Industrial Development Training   TIDT   4,945   50   644   2,155   2,377   422   401   2,34   0   0   0   607   Alabama School of Fine Arts   THFA   11,621   6,247   297   422   401   2,34   0   0   607   Alabama School of Fine Arts   TATM   10,877   56,914   42   2,165   2,461   1,434   0   0   5,533   Alabama State University   TMST   105,875   56,914   42   2,165   2,461   1,434   0   0   5,533   Alabama Technology Nelwork   TATM   10,642   5,721   52   223   220   188   0   0   556   Alabama State University   TAM   10,642   5,721   52   223   220   188   0   0   556   Alabama State University   TAM   10,642   5,721   52   223   220   188   0   0   0   556   Alabama State University   TAM   10,642   5,721   52   223   220   188   0   0   0   556   Alabama State University   TAM   10,642   5,721   52   223   220   188   0   0   0   0   0   0   Alabama State University   TAM   10,642   5,721   52   223   220   288   0   0   0   0   0   0   0   0   0	Alabama Education Association										
Alabama Higher Education Partnership   TAHP   510   7274   (5)   12   13   8   0   0   27	Alabama Fire College								•	•	
Alabama Industrial Development Training   TIDT   25,783   13,865   590   841   931   642   0   0   1,348   434   434   648   0   0   4,943   434   434   448   4	Alabama High School Athletic Association							58	0	0	
Alabama Institute for Deaf and Ellind									•	•	
Alabama Relired State Employees Association   TREA   1,120   60.02   20   41   34   16   0   0   698   Alabama Shato Employees Association   TASE   1,879   1,101   (36)   20   53   36   0   0   98   Alabama Shato Employees Association   TASE   1,879   1,101   (36)   20   53   36   0   0   98   Alabama Shate Employees Association   TASE   1,879   1,101   (36)   20   53   36   0   0   98   Alabama Shate Employees Association   TASE   1,879   1,101   (36)   20   53   36   0   0   98   Alabama Shate Employees Association   TASE   1,879   1,101   (36)   20   20   20   20   20   20   20   2	Alabama Industrial Development Training								-	-	
Alabama School of Fine Arts									•	•	
Alabama State Employees Association										-	59
Alabama State University         TMST         105,875         56,914         42         2,165         2,461         1,434         0         0         5,533           Alabama Technology Network         TATN         10,642         5,572         12         21         22         10         0         0         556           Alabaster (il) School System         TALR         83,209         44,730         1,823         2,361         2,488         927         0         0         1,348           Albaster (il) School System         TALR         83,209         44,730         1,823         2,261         2,489         1,975         1,260         0         0         3,283           Albactrulle (il) Board of Education         TALX         38,645         20,720         582         961         1,013         600         0         0         2,014           Arab City Board of Education         TANN         27,842         14,9867         125         520         1,134         746         0         0         1,775           Arab City Board of Education         TARB         33,989         18,261         659         1,099         1,134         746         0         0         1,775           Arab City Board of									-	-	
Alabama Technology Network									•	U	
Alabama Vocational Association   TAVA   232   125   21   21   22   10   0   0   12   Alabaster City, School System   TALR   83,209   44,730   1,823   2,361   2,458   927   0   0   3,283   Albastrulle City Board of Education   TALX   38,545   20,720   582   961   1,013   600   0   0   2,014   Andalusia City Board of Education   TALX   38,545   20,720   582   961   1,013   600   0   0   2,014   Andalusia City Board of Education   TANN   12,261   10,354   193   427   460   39   0   0   1,007   Analosia City Board of Education   TANN   7,842   14,967   125   520   1,134   1443   0   0   1,455   Arab City Board of Education   TARB   33,969   18,261   659   1,099   1,134   746   0   0   1,475   Arab City Board of Education   TATH   55,396   30,316   1,881   1,916   1,835   1,148   0   0   2,947   Athens City Board of Education   TATH   55,396   30,316   1,881   1,916   1,835   1,148   0   0   2,947   Athens City Board of Education   TATH   43,962   23,832   1,106   1,422   1,455   983   0   0   2,297   Altalia City, Schools   TATH   19,282   10,371   306   3,248   3,805   3,364   21,284   Altalia City, Schools   TATH   19,282   10,371   306   3,248   3,805   3,645   21,284   Altalia City, Schools   TATH   1,102,047   592,218   30,288   38,985   3,645   21,284   Altaliago County Board of Education   TATH   1,102,047   592,218   30,288   38,985   3,645   21,284   Altaliago County Board of Education   TATH   1,102,047   592,218   30,289   38,985   3,645   21,284   Altaliago County Board of Education   TATH   1,102,047   592,218   30,289   3,895   3,247   2,031   0   0   5,534   Balchwin County Board of Education   TBLD   415,310   223,254   10,274   14,224   14,045   7,203   0   0   2,099   Balchwin County Board of Education   TBLD   415,310   223,254   10,274   14,224   14,045   7,203   0   0   2,099   Balchwin County Board of Education   TBLD   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,410   415,											
Alabaster City School System   TALR   83,209   44,730   1,823   2,361   2,458   927   0   0   3,248   Albertville City Board of Education   TALB   62,829   33,774   1,674   2,089   1,975   1,260   0   0   3,248   Alexander City Board of Education   TAUL   38,545   20,720   582   961   1,013   600   0   0   0   2,014   Andalusia City Board of Education   TADL   19,261   10,354   193   427   460   39   0   0   0   1,015   1,01											
Abertville Cify Board of Education   TALB   62.829   33.774   1.674   2.089   1.975   1.260   0   0   3.283   3.48   Alexander Cify Board of Education   TALX   38.545   20.70   582   961   1.013   600   0   0   0   2.014   Andalusia City Board of Education   TANN   1.7842   14.967   125   520   1.134   1.143   0   0   0   1.007   1.455   Arab City Board of Education   TANN   27.842   14.967   125   520   1.134   1.143   0   0   0   1.455   Arab City Board of Education   TANN   27.842   14.967   125   520   1.134   1.143   7.46   0   0   0   1.775   1.745   1											
Alexander City Board of Education											
Andalusia City Board of Education   TADL   19.261   10.354   19.36   10.354   19.36   17.40   19.261   10.354   19.36   19.3									•	0	
Anniston Board of Education   TANN   27,842   14,967   125   520   1,134   1143   0   0   0   1,455   Araba City Board of Education   TARB   33,969   18,261   659   1,099   1,134   746   0   0   0   1,775   Athens City Board of Education   TATH   56,396   30,316   1,581   1,916   1,835   1,148   0   0   0   2,297   Attalla City Schools   TATT   19,292   10,371   (30)   227   332   (71)   0   0   0   1,008   Athum City Board of Education   TAUB   118,347   63,619   3,476   4,524   4,358   2,531   0   0   6,185   Aubum City Board of Education   TAUB   118,347   63,619   3,476   4,524   4,358   2,531   0   0   6,185   Aubum University   TAPI   1,102,047   592,418   30,258   38,895   36,945   21,254   0   0   5,7592   Alatauga Courty Board of Education   TATG   107,038   57,539   1,733   2,935   3,247   2,031   0   0   5,7592   Alatauga Courty Board of Education   TBLD   415,310   223,254   10,274   14,324   14,045   7,203   0   0   0   21,704   Barbour Courty Schools   TBRM   41,588   6,219   65   231   253   73   0   0   0   6185   Beswell State Community College   TWCT   40,165   21,591   452   599   759   598   0   0   2,099   Biblic County Board of Education   TBLT   40,165   21,591   452   599   759   598   0   0   0   2,099   Biblic County Board of Education   TBLT   40,165   21,591   452   599   759   598   0   0   0   0   2,1704   Birmingham City Schools   TBMH   327,944   176,290   4,533   8,245   8,986   2,360   0   0   0   1,555   Biount County Board of Education   TBLT   49,140   50,606   1,549   2,635   2,745   1,733   0   0   0   1,555   Biount County Board of Education   TBLT   49,140   50,606   1,549   2,635   2,745   1,733   0   0   0   1,555   Biount County Board of Education   TBLT   49,140   50,606   1,549   2,635   2,745   1,733   0   0   0   1,555   Biount County Board of Education   TBLT   49,140   50,606   1,549   2,635   2,745   1,733   0   0   0   1,555   Biount County Board of Education   TBLK   18,638   10,140   106   357   476   306   0   0   1,549   Brewill State Community College										-	
Arab City Board of Education   TARB   33,969   18,261   659   1,099   1,134   746   0   0   1,775   Athens City Board of Education   TATH   56,396   30,316   1,581   1,916   1,835   1,148   0   0   0   2,947   Athens State University   TATC   43,962   23,632   1,106   1,428   1,456   983   0   0   2,2947   Athens State University   TATC   43,962   23,632   1,106   1,428   1,456   983   0   0   2,2947   Athens State University   TATT   19,292   10,371   (30)   227   332   (71)   0   0   0   1,008   Auburn City Board of Education   TAUB   118,347   63,619   3,476   4,524   4,358   2,531   0   0   6,185   Auburn University   TAPI   1,102,047   592,418   30,288   38,895   36,945   21,254   0   0   57,592   Auburn University   TATG   107,038   57,559   1,733   2,935   3,247   2,031   0   0   5,594   Auburn County Board of Education   TATG   107,038   57,559   1,733   2,935   3,247   2,031   0   0   0   5,594   Auburn County Board of Education   TBLD   415,310   223,254   10,274   14,324   14,045   7,203   0   0   0   21,704   Auburn County Schools   TBAR   11,568   6,219   65   231   253   73   0   0   6,055   Bessemer Board of Education   TBSM   49,901   26,825   620   1,289   1,397   408   0   0   2,608   Beswill State Community College   TWCT   40,165   21,591   452   599   759   598   0   0   2,099   Bibb County Board of Education   TBIB   38,538   20,717   85   542   676   (30)   0   0   0   2,014   Auburn County Board of Education   TBIM   327,944   16,000   (140)   689   689   72   0   0   0   1,555   Biount County Board of Education   TBUT   5,638   8,406   340   488   512   347   0   0   0   4,920   Boaz City Board of Education   TBUT   5,638   8,406   340   488   512   347   0   0   0   4,920   Boaz City Board of Education   TBUT   5,638   8,406   340   488   512   347   0   0   0   3,196   Calhoun Community College   TDEC   61,163   32,879   1,640   2,127   2,247   1,409   0   0   0   3,196   Calhoun Community College   TDEC   61,163   32,879   1,640   2,127   2,247   1,409   0   0   0   3,196   Calhoun											
Athens City Board of Education											
Athens State University											
Attalla City Schools									-	•	
Aubum Cify Board of Education   TAUB   118.347   63.619   3.A76   4.524   4.538   2.B31   0   0   0   6.185   Aubum University   TAPI   1,102,047   592,418   30,258   38,895   36,945   21,254   0   0   0   57,592   Autauga County Board of Education   TATG   107,038   57,539   1,733   2,935   3,247   2,031   0   0   0   5,594   Baldwin County Board of Education   TBLD   415,310   223,254   10,274   14,324   14,045   7,203   0   0   0   21,704   Barbour County Schools   TBAR   11,568   6,219   65   231   253   73   0   0   0   605   Bessemer Board of Education   TBSM   49,901   26,825   620   1,289   1,397   408   0   0   2,608   Beswill State Community College   TWCT   40,165   21,591   452   599   759   598   0   0   0   2,099   Bibb County Board of Education   TBB   38,538   20,717   85   542   676   (30)   0   0   0   2,014   Birmingham City Schools   TBMH   327,944   176,290   4,533   8,245   8,986   2,360   0   0   0   17,138   Bloard Community College   TMJC   29,764   16,000   (140)   689   689   72   0   0   0   1,555   Bloard City Board of Education   TBLT   94,140   50,606   1,549   2,635   2,745   1,733   0   0   0   4,920   Brewin City Board of Education   TBWT   15,638   8,406   340   488   512   347   0   0   0   1,904   Brewin City Board of Education   TBUT   15,638   8,406   340   488   512   347   0   0   0   1,904   Brewin City Board of Education   TBLR   36,442   19,590   61   638   798   594   0   0   0   1,904   Bullock County Board of Education   TBLR   36,442   19,590   61   638   798   594   0   0   0   3,196   Bullock County Board of Education   TBLR   36,442   19,590   61   638   798   594   0   0   0   3,196   Bullock County Board of Education   TBLR   36,442   19,590   61   638   798   594   0   0   0   3,196   Bullock County Board of Education   TBLR   36,442   19,590   61   638   798   594   0   0   0   3,196   Bullock County Board of Education   TCLL   103,347   55,555   (31) 1,193   1,584   (306)   0   0   0   3,490   Bullock County Board of Education   TCLL   103,347   55,555										•	
Auburn University											
Autauga County Board of Education TATG 107,038 57,539 1,733 2,935 3,247 2,031 0 0 5,594 Baldwin County Board of Education TBLD 415,510 223,254 10,274 14,324 14,045 7,203 0 0 21,704 Barbour County Schools TBAR 11,568 6,219 65 231 253 73 0 0 665 Bessemer Board of Education TBLM 49,901 26,625 620 1,289 1,397 408 0 0 2,608 Bessemer Board of Education TBLM 49,901 26,625 620 1,289 1,397 408 0 0 2,609 Bibb County Board of Education TBLM 38,538 20,717 85 542 676 (30) 0 0 0 2,099 Bibb County Board of Education TBLM 327,944 176,290 4,533 8,245 8,986 2,360 0 0 0 17,138 Bishop State Community College TMJC 29,764 16,000 (140) 689 689 72 0 0 1,555 Blount County Board of Education TBLT 94,140 50,606 1,549 2,635 2,745 1,733 0 0 0 1,555 Blount County Board of Education TBLT 94,140 50,606 1,549 2,635 2,745 1,733 0 0 1,619 Brewton City Board of Education TBLK 18,638 8,406 340 488 512 347 0 0 1,619 Brewton City Board of Education TBLK 18,638 10,140 106 357 476 366 0 0 9,866 Buller County Board of Education TBLR 36,442 19,590 61 638 798 594 0 0 0 1,904 Calhoun Community College TDEC 61,163 32,879 1,640 2,127 2,247 1,409 0 0 3,196 Calhoun County Board of Education TCAL 103,347 55,555 (31) 1,193 1,584 (306) 0 0 0 3,166 CAPNA, Inc. TNCA 29,461 15,837 490 771 798 300 0 0 0 3,196 CAPNA, Inc. TNCA 29,461 15,837 490 771 798 300 0 0 0 3,196 CAPNA, Inc. TNCA 29,461 15,837 490 771 798 300 0 0 0 3,196 CAPNA, Inc. TNCA 29,461 15,837 490 771 798 300 0 0 0 3,196 CAPNA, Inc. TNCA 29,461 15,837 490 771 798 300 0 0 0 3,196 CAPNA, Inc. TNCA 29,461 15,837 490 771 798 300 0 0 0 3,196 CAPNA, Inc. TNCA 29,461 15,837 490 771 798 300 0 0 0 2,423 Charladoan Community College TCVS 15,585 8,376 449 662 607 356 60 0 0 844 Charladoan TCHB 46,363 24,923 559 1,000 1,227 740 0 0 0 2,423 Charladoan TCHB 46,363 24,923 559 1,000 1,227 740 0 0 0 2,423 Charladoan Community College TCVS 15,585 8,376 449 662 607 356 60 0 0 4,743 Charladoan Community College TCVS 15,585 8,376 449 662 607 356 60 0 0 4,743 Charladoan Community College TCVS 15,585 8,376 449 662 607 356 60 0									-	-	
Baldwin County Board of Education   TBLD   415,310   223,254   10,274   14,324   14,045   7,203   0   0   21,704   Barbour County Schools   TBAR   11,568   6,219   65   231   253   73   0   0   605   Bessemer Board of Education   TBSM   49,901   26,825   620   1,289   1,397   408   0   0   2,608   Bevill State Community College   TWCT   40,165   21,591   452   599   759   598   0   0   2,099   Bibb County Board of Education   TBIB   38,538   20,717   85   542   676   (30)   0   0   0   0   2,014   Birmingham City Schools   TBMH   327,944   176,290   4,533   8,245   8,986   2,360   0   0   17,138   Bishop State Community College   TMJC   29,764   16,000   (140)   689   689   72   0   0   1,555   Boult County Board of Education   TBILT   94,140   50,606   1,549   2,635   2,745   1,733   0   0   0   4,920   Boaz City Board of Education   TBUT   15,638   8,406   340   488   512   347   0   0   0   817   Bullock County Board of Education   TBIK   18,863   10,140   106   357   476   306   0   0   986   Butler County Board of Education   TBIR   36,442   19,590   61   638   788   594   0   0   986   Butler County Board of Education   TBIR   36,442   19,590   61   638   788   594   0   0   1,904   Calhoun Community College   TDEC   61,163   32,879   1,640   2,127   2,247   1,409   0   0   3,196   Calhoun County Board of Education   TRUA   29,461   15,837   490   771   798   300   0   0   5,401   CAPNA, Inc.   TNCA   29,461   15,837   490   771   798   300   0   0   331   Chambers County Board of Education   TCHB   46,363   24,923   559   1,080   1,227   740   0   0   2,423   Chambers County Board of Education   TCHB   46,363   24,923   559   1,080   1,227   740   0   0   2,423   Chattatoochev Valley Community College   TCVS   15,581   8,376   449   662   607   356   0   0   4,743   Chilton County Board of Education   TCHT   90,766   48,792   1,974   2,747   2,881   1,804   0   0   0   4,743											
Barbour County Schools   TBAR   11,568   6,219   65   231   253   73   0   0   605											
Bessemer Board of Education   TBSM   49,901   26,825   620   1,289   1,397   408   0   0   2,608											
Bevill State Community College   TWCT   40,165   21,591   452   599   759   598   0   0   2,099										•	
Bibb County Board of Éducation   TBIB   38,538   20,717   85   542   676   (30)   0   0   2,014									-	-	
Birmingham City Schools   TBMH   327,944   176,290   4,533   8,245   8,986   2,360   0 0 0 17,138										-	
Bishop State Community College									-	-	
Blount County Board of Education   TBLT   94,140   50,606   1,549   2,635   2,745   1,733   0   0   4,920											
Boaz City Board of Education         TBOZ         30,979         16,653         739         1,040         1,043         257         0         0         1,619           Brewton City Board of Education         TBWT         15,638         8,406         340         488         512         347         0         0         817           Bullock County Board of Education         TBLR         18,663         10,140         106         357         476         306         0         0         986           Butler County Board of Education         TBLR         36,442         19,590         61         638         798         594         0         0         1,904           Calhoun Community College         TDEC         61,163         32,879         1,640         2,127         2,247         1,409         0         0         3,196           Calhoun County Board of Education         TCAL         103,347         55,555         (31)         1,193         1,584         (306)         0         0         5,401           CAPNA, Inc.         TNCA         29,461         15,837         490         771         798         300         0         0         1,540           Central Alabama Community College         T			-, -	-,							
Brewton City Board of Education   TBWT   15,638   8,406   340   488   512   347   0   0   0   817									•	•	
Bullock County Board of Education         TBLK         18,863         10,140         106         357         476         306         0         0         986           Butler County Board of Education         TBLR         36,442         19,590         61         638         798         594         0         0         1,904           Calhoun Community College         TDEC         61,163         32,879         1,640         2,127         2,247         1,409         0         0         3,946           Calhoun County Board of Education         TOAL         103,347         55,555         (31)         1,193         1,584         (306)         0         0         0         5,401           CAPNA, Inc.         TNCA         29,461         15,837         490         771         798         300         0         0         0         1,540           Central Alabama Community College         TACC         17,818         9,578         52         266         380         197         0         0         931           Chambers County Board of Education         TCHB         46,363         24,923         559         1,080         1,227         740         0         0         2,423           Chattah											
Butler County Board of Education TBLR 36,442 19,590 61 638 798 594 0 0 1,904 Calhoun Community College TDEC 61,163 32,879 1,640 2,127 2,247 1,409 0 0 3,1964 Calhoun County Board of Education TCAL 103,347 55,555 (31) 1,193 1,584 (306) 0 0 0 5,401 CAPNA, Inc. TNCA 29,461 15,837 490 771 798 300 0 0 1,540 Central Alabama Community College TACC 17,818 9,578 52 266 380 197 0 0 931 Chambers County Board of Education TCHB 46,363 24,923 559 1,080 1,227 740 0 0 0 2,423 Chattahoochee Valley Community College TCVS 15,581 8,376 449 662 607 356 0 0 814 Cherokee County Board of Education TCHK 54,070 29,066 1,040 1,591 1,595 493 0 0 2,826 Chickasaw City School System TCKW 14,889 8,004 657 697 649 279 0 0 7,743 Chilton County Board of Education TCHT 90,766 48,792 1,974 2,747 2,881 1,804 0 0 0 4,743									•	•	
Calhoun Community College         TDEC         61,163         32,879         1,640         2,127         2,247         1,409         0         0         3,196           Calhoun County Board of Education         TCAL         103,347         55,555         (31)         1,193         1,584         (306)         0         0         5,401           CAPNA, Inc.         TNCA         29,461         15,837         490         771         798         300         0         0         0         5,401           Central Alabama Community College         TACC         17,818         9,578         52         266         380         197         0         0         931           Chambers County Board of Education         TCHB         46,363         24,923         559         1,080         1,227         740         0         0         2,423           Chattahoochee Valley Community College         TCVS         15,581         8,376         449         662         607         356         0         0         814           Cherokee County Board of Education         TCHK         54,070         29,066         1,040         1,591         1,595         493         0         0         2,726           Chickasaw Cit										•	
Calhoun County Board of Education         TCAL         103,347         55,555         (31)         1,193         1,584         (306)         0         0         5,401           CAPNA, Inc.         TNCA         29,461         15,837         490         771         798         300         0         0         1,540           Central Alabama Community College         TACC         17,818         9,578         52         266         380         197         0         0         931           Chambers County Board of Education         TCHB         46,363         24,923         559         1,080         1,227         740         0         0         2,423           Chattahoochee Valley Community College         TCVS         15,581         8,376         449         662         607         356         0         0         814           Cherokee County Board of Education         TCHK         54,070         29,066         1,040         1,591         1,595         493         0         0         2,826           Chickasaw City School System         TCKW         14,889         8,004         657         697         649         279         0         0         7,743           Chilton County Board of Education											
CAPNA, Inc. TNCA 29,461 15,837 490 771 798 300 0 0 1,540 Central Alabama Community College TACC 17,818 9,578 52 266 380 197 0 0 931 Chambers County Board of Education TCHB 46,363 24,923 559 1,080 1,227 740 0 0 0 2,431 Chatlahoochee Valley Community College TCVS 15,581 8,376 449 662 607 356 0 0 814 Cherokee County Board of Education TCHK 54,070 29,066 1,040 1,591 1,595 493 0 0 2,826 Chickasaw City School System TCKW 14,889 8,004 657 697 649 279 0 0 7,826 Chilton County Board of Education TCHT 90,766 48,792 1,974 2,747 2,881 1,804 0 0 0 4,743									-	-	
Central Alabama Community College         TACC         17,818         9,578         52         266         380         197         0         0         931           Chambers County Board of Education         TCHB         46,363         24,923         559         1,080         1,227         740         0         0         2,423           Chattahoochee Valley Community College         TCVS         15,581         8,376         449         662         607         356         0         0         814           Cherokee County Board of Education         TCHK         54,070         29,066         1,040         1,591         1,595         493         0         0         2,826           Chickasaw City School System         TCKW         14,889         8,004         657         697         649         279         0         0         778           Chilton County Board of Education         TCHT         90,766         48,792         1,974         2,747         2,881         1,804         0         0         4,743											
Chambers County Board of Éducation         TCHB         46,363         24,923         559         1,080         1,227         740         0         0         2,423           Chattahoochee Valley Community College         TCVS         15,581         8,376         449         662         607         356         0         0         814           Cherokee County Board of Education         TCHK         54,070         29,066         1,040         1,591         1,595         493         0         0         2,826           Chickasaw City School System         TCKW         14,889         8,004         657         697         649         279         0         0         778           Chilton County Board of Education         TCHT         90,766         48,792         1,974         2,747         2,881         1,804         0         0         4,743											
Chattahoochee Valley Community College TCVS 15,581 8,376 449 662 607 356 0 0 814 Cherokee County Board of Education TCHK 54,070 29,066 1,040 1,591 1,595 493 0 0 2,826 Chickasaw City School System TCKW 14,889 8,004 657 697 649 279 0 0 778 Chilton County Board of Education TCHT 90,766 48,792 1,974 2,747 2,881 1,804 0 0 4,743											
Cherokee County Board of Education         TCHK         54,070         29,066         1,040         1,591         1,595         493         0         0         2,826           Chickasaw City School System         TCKW         14,889         8,004         657         697         649         279         0         0         778           Chilton County Board of Education         TCHT         90,766         48,792         1,974         2,747         2,881         1,804         0         0         4,743									•	•	
Chickasaw City School System         TCKW         14,889         8,004         657         697         649         279         0         0         778           Chilton County Board of Education         TCHT         90,766         48,792         1,974         2,747         2,881         1,804         0         0         4,743									•	•	
Chilton County Board of Éducation TCHT 90,766 48,792 1,974 2,747 2,881 1,804 0 0 4,743									•	-	
									-	-	
	Choctaw County Board of Education  Choctaw County Board of Education	TCHI	90,766 16.541	48,792 8,892	(220)	2,747	2,881 156	(68)	0		4,743 864



				Projected Deferred Outflows/(Inflows) To Be Recognized in Pension Expense for the Fiscal Year Ended September 30				2020 Actual		
Employer	Employer Code	NPL @ Minus 1% (6.70%)	NPL @ Plus 1% (8.70%)	2022	2023	2024	2025	2026	Thereafter	Employer Contributions
Clarke County Board of Education	TCLK	31,125	16,732	(334)	178	351	(90)	C		1,627
Clay County Board of Education	TCLY	23,529	12,648	281	582	649	454	C		1,230
Cleburne County Board of Education	TCLB	32,696	17,576	371	864	970	304	C	-	1,709
Coastal Alabama Community College	TBMC TCOF	57,823	31,084	758	1,244	1,384	893	C		3,022
Coffee County Board of Education	TCOL	26,607 42,242	14,303 22,708	702 804	943 1,234	914 1,255	566 439	Ü		1,390 2,208
Colbert County Board of Education Community Svc Programs of West Alabama	TCSP	12,998	6,987	249	1,234 499	534	439 229	C	-	2,208
Conecuh County Board of Education	TCON	23,235	12,490	288	534	517	245	C		1,214
Coosa County Board of Education	TCSA	11,487	6,175	(125)	65	139	(29)	C		600
Council for Leaders in Alabama Schools	TACA	1,539	827	41	57	71	34			80
Covington County Board of Education	TCOV	40.090	21,551	695	1.124	1.195	755	Č		2.095
Crenshaw County Board of Education	TCRW	28.556	15.351	508	745	815	573	Č	0	1,492
Cullman City Board of Education	TCMN	39,249	21,099	563	981	1,005	115	Č	0	2,051
Cullman County Commission on Education	TCUL	114,106	61,339	737	2,031	2,250	(323)	C	0	5,963
Dale County Board of Education	TDAL	39,239	21,093	990	1,332	1,339	`536	C	0	2,051
Daleville City Board of Education	TDLV	13,847	7,444	211	460	475	279	C	0	724
Dallas County Board of Education	TDLS	45,094	24,241	457	1,047	1,245	857	C		2,357
Dauphin Island Sea Lab	TMES	12,121	6,516	323	371	331	186	C		633
Decatur Board of Education	TDTR	121,685	65,413	1,526	2,871	2,964	47	C		6,359
Dekalb County Board of Education	TDKB	112,940	60,712	2,234	3,340	3,516	1,219	C		5,902
Demopolis City Schools	TDPL	26,859	14,439	398	714	710	446	C		1,404
Developing Alabama Youth Foundation	TDAY	1,244	669	. 15	31	31	22	C		65
Dothan Board of Education	TDTN	115,142	61,896	1,457	2,916	3,141	1,973	C		6,017
Elba City Board of Education	TELB	8,847	4,756	64	172	274	166	C		462
Elmore County Board of Education	TELM	135,277	72,720	3,206	4,616	4,582	2,716	C		7,070
Enterprise Board of Education	TENP	76,416	41,078	668	1,246	1,366	(241)	C		3,993
Enterprise Ozark Community College	TEPC TESC	18,607 57,512	10,003 30,916	264 696	411 1,328	542 1,436	308 426	C		972 3,006
Escambia County Board of Education Etowah County Board of Ed	TETH	108,327	58,232	1,923	3,204	3,367	1,167			5,661
Etowah County Board of Ed  Etowah County Community Service Program, Inc.	TECA	341	183	1,923	3,204 9	3,307	1,167	C		18
Eufaula City Board of Education	TEFL	37.003	19.892	799	1.170	1.228	749			1.934
Fairfield Board of Education	TERE	21,222	11,408	33	339	473	175	Č		1,109
Fayette County Board of Education	TFAY	29,479	15,847	437	822	872	242	Č		1,541
Florence City Board of Education	TFLO	65,130	35,011	1,246	2,061	2.180	1,360	Č	0	3,404
Fort Payne City Board of Education	TFTP	39,162	21,052	948	1,357	1,401	857	Č	0	2,047
Franklin County Board of Education	TFRK	50,754	27,283	1,566	1,935	1,952	1,201	C	0	2,652
Gadsden City Board of Education	TGDS	70,901	38,114	1,085	1,992	2,178	832	C	0	3,705
Gadsden State Community College	TGDC	51,091	27,465	157	867	1,062	710	C	0	2,670
Geneva City Board of Education	TGCB	17,119	9,202	372	525	524	340	C		895
Geneva County Board of Education	TGEN	30,832	16,574	281	578	562	(86)	C		1,611
George Corley Wallace State Community College	TGWS	19,917	10,707	213	435	499	344	C		1,041
Greene County Board of Education	TGRN	16,345	8,787	113	279	320	128	C		854
Gulf Shores City Board of Education	TGSC	27,175	14,608	3,895	4,195	4,186	3,357	C		1,420
Guntersville City Board of Education	TGUN	25,352	13,628	332	703	744	488	C		1,325
H. Councill Trenholm State Technical College	TMGT	22,691	12,198	744	964	860	460 521	C	-	1,186
Hale County Board of Education Halevville City Board of Education	THAL THAV	30,171 22.374	16,219 12.028	60 436	521 673	650 661	521 422	C		1,577 1.169
Hartselle City Board of Education	THCS	47,094	25,316	1,562	2.145	2.115	1,229			2,461
Henry County Board of Education	THNY	31.608	16.991	640	1.007	1.060	688			1.652
Homewood City Board of Education	THOM	74,469	40,032	2.109	2,862	2.722	970	C		3,892
Hoover City Board of Education	THOV	229,316	123,271	4.992	7,918	8.138	2,522	C		11,984
Houston County Board of Education	THST	68,603	36,879	462	1,168	1,285	(142)	C		3,585
Huntsville City Schools	THTS	296,535	159,406	4,151	7,255	8,162	2,341	Č		15,497
J. F. Drake State Technical College	THVS	10,730	5,768	(4)	205	334	285	Č	-	561
J. F. Ingram State Technical College	TDRT	16,910	9,090	(34)	224	474	280	Č		884
Jackson County Board of Education	TJKS	73,429	39,473	714	1,536	1,793	488	Č	0	3,837
Jacksonville City Board of Education	TJCS	20,165	10,840	460	687	672	222	C	0	1,054
Jacksonville State University	TJST	136,069	73,146	3,920	5,408	5,021	3,027	C	0	7,111
Jasper City Board of Education	TJSP	36,697	19,727	454	954	1,066	643	C		1,918
Jefferson County American Federation of Teachers	TJFT	366	197	(6)	1	(4)	(6)	C		19
Jefferson County Board of Education	TJEF	479,911	257,982	8,624	14,141	14,693	9,059	C	0	25,080



				Projected Deferred Outflows/(Inflows) To Be Recognized in Pension Expense for the Fiscal Year Ended September 30					ense	2020 Actual
Employer	Employer Code	NPL @ Minus 1% (6.70%)	NPL @ Plus 1% (8.70%)	2022	2023	2024	2025	2026	Thereafter	Employer Contributions
Jefferson State Community College	TJJC	56,558	30,403	1,258	1,794	1,896	1,178	C	0	2,956
Lamar County Schools	TLAM	25,366	13,636	39	333	373	(105)	C		1,326
Lanett City Schools	TLNT	12,300	6,612	229	378	388	198	C		643
Lauderdale County Board of Ed	TLAU	105,947	56,953	2,182	3,404	3,355	1,137	C	, ,	5,537
Law Enforcement AcademyBaldwin County	TSWP	363	195	10	13	24	32	C	,	19
Law Enforcement AcademyTuscaloosa	TLET	426	229	26	33	29	14	C		22
Lawrence County Board of Education	TLAW	61,738	33,188	923	1,702	1,885	1,222	C		3,226
Lawson State College	TLSC	35,868	19,281	707	1,021	1,044	596	C		1,874
Lee County Board of Education	TLEE	125,045	67,219	1,712	3,088	3,385	2,375	C		6,535
Leeds Board of Education, City of	TLDS	26,056	14,007	775	926	879	329	C	,	1,362
Limestone County Board of Education	TLST	103,155	55,452	51	1,252	1,512	(323)	C	,	5,391
Linden City Board of Education	TLND	7,223	3,883	123	208	212	122	C		377
Lowndes County Board of Education	TLDN	22,688	12,196	(269)	220 371	356 383	(53) 208	C		1,186
Lurleen B. Wallace Community College	TLUR TMAC	18,477	9,932	181 56	371 444	533	208 427	Ü	,	966
Macon County Board of Education		27,499	14,782					C		1,437
Madison City Board of Education	TMDC TMAD	151,815	81,610	5,568	6,912	6,823	2,828	C		7,934
Madison County Board of Education	TMNG	247,849	133,234 8,177	3,868 226	6,720 427	7,322 490	2,261 320	C		12,952 795
Marengo County Board of Education		15,211								
Marion County Board of Education Marion Military Institute	TMAR TMMI	41,106	22,097 7,272	585 268	1,010 342	1,120 356	773 221	C		2,148 707
Marshall County Board of Education	TMSH	13,528 75,261	40,457	1,553	2,371	2,303	1,380	C		3,933
	TMID	14,979	8,052	257	2,371 458	2,303 577	1,360			783
Midfield City Board of Education Mobile School Commissioners	TMOB	691,569	371,761	8,094	16,512	18,845	6,500	C		36,141
Monroe County Board of Education	TMON	44,195	23,758	639	1,167	1,274	839	C		2,310
Montgomery City and County Board of Education	TMTG	354,933	190,798	2,065	6,062	6,931	1,266			18,549
Morgan County Board of Education	TMOR	100,036	53,775	1,468	2,575	2,780	1,634			5,228
Mountain Brook City Board of Education	TMTB	85,115	45,755	1,468	2,657	3,498	1,147		, ,	4,448
Muscle Shoals City Schools	TMSC	37,431	20,121	423	646	595	(134)	Č	,	1,956
Northeast Alabama Community College	TNEC	22,630	12,165	527	747	772	509	C	,	1,183
Northwest Shoals Community College	TNWC	31,578	16,975	509	947	1,064	713			1,650
Oneonta City Board of Education	TONE	17.453	9.382	409	594	572	345			912
Opelika City Board of Education	TOPK	63,902	34,351	1,285	1,865	1.916	623		,	3,339
Opp City Board of Education	TOPP	17,622	9,473	416	587	570	350		, ,	921
Organized Community Action Program Inc	TOCA	8.315	4.470	(29)	87	190	93	Č		435
Oxford City Schools	TOXE	55,999	30,103	1,021	1,565	1,540	1,071	Č	,	2,926
Ozark City Board of Education	TOZK	27.058	14.545	270	726	781	516	Č		1.414
Pelham City Board of Education	TPLS	42.622	22,912	968	1,521	1.516	621	Č		2.227
Pell City School System	TPEL	48,893	26,283	768	1,332	1,441	1,022	Č	,	2,555
Perry County Board of Education	TPRY	17.601	9,462	(90)	234	276	232	Č	) 0	920
Phenix City Board of Education	TPHC	86,932	46.731	1,897	2,830	2,965	1,073	Č	,	4,543
Pickens County Board of Education	TPKS	32,743	17,602	317	709	736	147	Č		1,711
Piedmont City Schools	TPMT	14.992	8.059	213	390	421	293	Č		783
Pike County Board of Education	TPIK	29,448	15,830	327	634	744	20	Č	,	1,539
Pike Road City Schools	TPRB	22,286	11,980	2.039	2.008	1.656	854	Č		1,165
Randolph County Board of Education	TRAN	29,526	15,872	553	883	854	562	Č		1,543
Reid State Technical College	TEVN	8,230	4,424	55	280	296	173	Č	) 0	430
Roanoke City Schools	TROK	16,222	8,720	81	268	293	(40)	Č		848
Russell County Board of Education	TRUS	45,439	24,426	983	1,459	1,499	944	Č	0	2,375
Russellville City Board of Education	TRSV	34,198	18,384	591	873	957	641	C	0	1,787
Saraland Board of Education	TSAR	36,004	19,354	1,230	1,477	1,361	509	Č	0	1,882
Satsuma City Schools	TSTM	16,579	8,912	560	708	627	397	C	0	866
School Superintendents of Alabama	TSAL	1,174	631	34	36	25	24	Č	0	61
Scottsboro Board of Education	TSCO	31,158	16,749	(46)	416	472	(56)	Č		1,628
Selma Public Schools	TSMA	39,122	21,031	(415)	267	673	116	C	0	2,045
Sheffield City Board of Education	TSHF	16,289	8,756	177	422	471	322	Č	0	851
Shelby County Board of Education	TSBY	291,791	156,856	6,687	9,864	9,877	3,383	Č	) 0	15,249
Shelton State Community College	TTVS	44,179	23,749	730	1,390	1,407	786	Č		2,309
Snead State Community College	TSJC	17,959	9,654	440	591	600	367	Č		938
Southern Union State Community College	TSUC	34,157	18,362	923	1,292	1,251	712	Č		1,785
Special Programming for Achievement Network	TBSC	5,503	2,958	94	157	153	103	Č		288
St. Clair County Board of Education	TSTC	102,551	55,128	1,316	2.297	2,354	(19)	Č		5,359



				Projected Deferred Outflows/(Inflows) To Be Recognized in Pension Expense for the Fiscal Year Ended September 30				- 2020 Actual		
Employer	Employer Code	NPL @ Minus 1% (6.70%)	NPL @ Plus 1% (8.70%)	2022	2023	2024	2025	2026	Thereafter	Employer Contributions
State of AlabamaCommission on Higher Education	TCHE	5,662	3,044	123	172	173	123	0	0	296
State of AlabamaDepartment of Rehab Services	TDRS	99,085	53,264	2,131	3,345	3,360	1,964	0	0	5,178
State of AlabamaDepartment of Post-Secondary Ed	TPSE	23,414	12,586	1,733	1,742	1,590	844	0	0	1,224
State of AlabamaDepartment of Youth Services	TDYS	44,066	23,688	678	1,271	1,387	948	0	•	2,303
State of AlabamaHigh School of Math & Science	THMS	7,565	4,067	257	318	312	174	0		395
State of AlabamaPEEHIP	TPHP	6,069	3,262	207	271	237	112	0	0	317
State of AlabamaState Board of Education	TSBE	117,119	62,959	1,278	3,239	4,045	2,540	0	0	6,121
State of AlabamaTeachers Retirement System	TTRS	38,377	20,630	1,479	1,771	1,618	837	0	0	2,006
Sumter County Board of Education	TSUM	18,352	9,865	(457)	(201)	5	(93)	0	0	959
Sylacauga City Board of Education	TSYL	26,662	14,332	(52)	333	371	(133)	0	0	1,393
Talladega City Board of Education	TTAL	27,020	14,525	351	532	747	488	0	0	1,412
Talladega County Board of Education	TTDG	95,019	51,079	1,402	2,548	2,716	1,720	0	0	4,966
Tallapoosa County Board of Education	TTPS	36,728	19,744	732	1,132	1,157	705	0	0	1,919
Tallassee City Board of Education	TTAS	21.863	11.753	210	482	565	384	0	0	1.143
Tarrant Board of Education	TTAR	17,186	9,239	372	577	579	211	0	0	898
Thomasville City Schools	TTOM	15,152	8.145	(117)	61	196	(2)	0	0	792
Troy City Board of Education	TTRY	23,409	12,584	18	307	394	24	0	Ō	1,223
Troy University	TTST	212,402	114,179	494	4.585	4.709	2.616	Ö	0	11,100
Trussville City Board of Education	TTCB	66.682	35,846	2,052	2.474	2,242	1,355	0		3,485
Tuscaloosa City Schools	TTUS	162,965	87.604	4.349	5,459	5,194	2.937	Ö	0	8,516
Tuscaloosa County Schools	TTLS	228,945	123,072	5,640	7,653	7,435	2,441	0		11,965
Tuscumbia City Board of Education	TTSC	19,445	10.453	325	542	527	22	0	0	1.016
University Chancellor's Office	TUCO	29,262	15,730	759	1,161	1,192	732	0		1,529
University Charter School	TUWC	4.107	2,208	543	588	291	196	0		215
University of Alabama	TUVA	986,736	530,431	22,581	31,998	29,635	16,440	0		51,566
University of AlabamaBirmingham	TUMC	1,885,650	1,013,650	22,645	44,521	48.037	28,980	0		98,543
University of AlabamaHuntsville	TUAH	256,853	138,074	4,981	8,255	8,378	5,537	0		13,423
University of Montevallo	TALC	68.096	36,606	1,215	1.798	1,901	969	0		3.559
University of North Alabama	TFST	116,685	62,725	3,439	4,594	4,417	2,440	0		6,098
University of North Alabama	TUSA	421.064	226,348	(4,574)	1.911	5.529	3.175	0		22.005
University of West Alabama	TLVC	59,291	31,873	1,128	1,624	1,651	963	0		3,099
Vestavia Hills Board of Education	TVES	118,819	63.872	3,350	4.446	4.189	1.397	0	•	6.209
Walker County Board of Education	TWLK	92,174	49,549	232	1,351	1,407	(578)	0		4,817
Wallace Community CollegeDothan	TGWD	42,300	22.739	732	1,180	1,233	809	0	•	2,211
Wallace State CollegeHanceville	TCUT	42,300	22,739	616	1,006	1,233	713	0		2,211
Washington County Board of Education	TWSH			181	603	1,158	683	0	-	1,738
Wilcox County Board of Education	TWIL	33,255 21.554	17,876 11,587	(116)	188	308	(85)	0	•	1,736
Winfield City Board of Education  Winfield City Board of Education	TWFD	21,554 16.656	11,587 8.954	(116)	188 487	308 514	(85)	0		1,126
								-	-	
Winston Education Board	TWIN	33,653	18,091	405	917	1,015	706 218	0	0	1,759
Woodlawn Comm Charter School (i3 Academy)	TWDL	2,055	1,105	287	310	313	218	0	0	107
Total for All Entities		\$ 16,503,709	\$ 8,871,759	\$ 276,242	\$ 458,360	\$ 478,387	\$ 231,981	\$ 0	\$ 0	\$ 862,476



#### **SCHEDULE D**

# SUMMARY OF MAIN PLAN PROVISIONS AS INTERPRETED FOR ACCOUNTING AND REPORTING VALUATION PURPOSES

The Teachers' Retirement System of Alabama was established on September 15, 1939, and went into effect September 30, 1941. The valuation took into account amendments to the System through the valuation date. There is a new tier (Tier II) of benefits for all members initially joining the System on and after January 1, 2013. The following summary describes the main benefit and contribution provisions of the System as interpreted for the valuation.

#### 1 - DEFINITIONS

Average Final Compensation - the average compensation of a member for:

Tier I – the 3 highest years in the last 10 years of Creditable Service

Tier II – the 5 highest years in the last 10 years of Creditable Service

Membership Service – all service rendered while a member of the retirement system and for which contributions are made.

Creditable Service – the sum of membership service, prior service, and any other service established as creditable in accordance with the provisions of the retirement law.

Annuity – payments for life derived from accumulated contributions of a member.

Pension – payments for life derived from employer contributions.

Retirement Allowance – the sum of the annuity and pension.

### 2 - BENEFITS

Service Retirement Allowance

Condition for Allowance

Tier I A retirement allowance is payable upon the request of any member

who has completed 25 years of creditable service or who has attained

age 60 and completed at least 10 years of creditable service.

Tier II A retirement allowance is payable upon the request of any member

who has attained age 62 and completed at least 10 years of creditable service (age 56 with 10 years of creditable service for a full-time

certified firefighter, police officer or correctional officer).

Amount of Allowance

Tier I Upon service retirement a member receives a retirement allowance

equal to 2.0125% of the member's average final compensation multiplied by the number of years of creditable service. At retirement, a member receives one additional year of creditable service in



determining the retirement allowance for each five years of service as a full-time certified firefighter, police officer or correctional officer.

Tier II

Upon service retirement a member receives a retirement allowance equal to 1.65% of the member's average final compensation multiplied by the number of years of creditable service. The benefit is capped at 80% of the member's average final compensation.

Both

The member may elect to receive a reduced retirement allowance in order to provide an allowance to a designated beneficiary after the member's death (see "Special Privileges at Retirement" below).

Disability Retirement Allowance

Condition for Allowance

A disability retirement allowance may be granted to a member who has 10 years or more of creditable service who becomes totally and permanently incapacitated for duty before reaching eligibility for a service retirement allowance.

Amount of Allowance

Tier I

On retirement for disability, a member receives a retirement allowance equal to 2.0125% of the member's average final compensation multiplied by the number of years of creditable service. At retirement, a member receives one additional year of creditable service in determining the retirement allowance for each five years of service as a full-time certified firefighter, police officer or correctional officer.

Tier II

Upon disability retirement a member receives a retirement allowance equal to 1.65% of the member's average final compensation multiplied by the number of years of creditable service. The benefit is capped at 80% of the member's average final compensation.

Both

The member may elect to receive a reduced retirement allowance in order to provide an allowance to a designated beneficiary after the member's death (see "Special Privileges at Retirement" below).

Benefits Payable on Separation from Service

Any member who withdraws from service is entitled to receive his or her contributions with allowable interest. A member who has completed 10 years of creditable service may, after separation from service, continue in the membership of the System and file for service retirement after reaching age 60 (age 62 for Tier II members).

Benefits Payable upon Death in Active Service

In the event of the death of a member eligible for service retirement, the designated beneficiary may elect (1) to exercise Option 3 defined below under "Special Privileges at Retirement" or (2) to receive a return of member contributions and total earned interest plus a death benefit payable from the pre-retirement death benefit fund equal to the salary on which the member made retirement contributions for the previous scholastic year (July 1-June 30).\*



In the event of the death of a member with more than one year of service who is not eligible to retire, the designated beneficiary shall receive the return of member contributions and total earned interest. Also, the designated beneficiary shall receive an additional death benefit payable from the pre-retirement death benefit fund equal to the salary on which retirement contributions were made for the previous scholastic year (July 1-June 30).\*

In the event of a job-related death of a member with less than one year of service, the designated beneficiary shall receive the return of member contributions and total earned interest plus a death benefit payable from the pre-retirement death benefit fund equal to the annual earnable compensation of the member at the time of death.\*

In the event of the death of a member with less than one year of service that is not job-related, the designated beneficiary shall receive the return of member contributions and total earned interest plus a matching death benefit which is limited to a \$5,000 maximum.

\*However, if the death occurred more than 180 calendar days after the member's last day in pay status, or if the deceased had applied for a refund of contributions or terminated employment, the lump sum will be the same as if the member had less than one year of service and the death was not job-related.

Special Privileges at Retirement

In lieu of the full retirement allowance, any member may, at retirement, elect to receive a reduced retirement allowance equal in value to the full allowance, with the provision that:

Option 1 - If the member dies before annuity payments have equaled the present value of the annuity at the date of retirement, the balance is paid to a designated beneficiary or to his estate, or

Option 2 - After the member's death, the member's allowance is continued throughout the life of the designated beneficiary, or

Option 3 - After the member's death, one-half of the member's allowance is continued throughout the life of the designated beneficiary, or

Option 4 - Some other benefit is paid either to the member or to such other person as the member shall designate provided such benefit, together with the reduced retirement allowance, is of equivalent actuarial value to his retirement allowance and is approved by the Board of Control.

Deferred Retirement Option Plan (DROP)

Prior to March 25, 2011, a member may elect to participate in the Deferred Retirement Option Plan (DROP) upon completion of at least 25 years of creditable service (excluding sick leave) and attainment of at least 55 years of age. Under the DROP, the member may defer receipt of a retirement allowance and continue employment for a period not to exceed five years, nor to be less than three years. At the end of



this period, the member will withdraw from active service and receive the retirement benefit calculated at the time of enrollment in the DROP, and also receive a payment for the deferred retirement benefits, employee contributions while participating in the DROP and interest earned on DROP deposits.

The effect of Act 2011-27 is that no new participants will be allowed to enter DROP with an effective participation date after June 1, 2011.

Upon the death of a contributing member there is paid a term life insurance benefit of \$15,000 (pro-rated for part-time members)

Prior to October 1, 2011, regular members contributed 5.0% of salary and certified police officers, firefighters and correctional officers contributed 6.0% of salary. DROP participants continue to contribute during the DROP period, but receive a refund of these contributions and regular interest upon retirement.

Beginning October 1, 2011, the contribution rates were increased to 7.25% for regular members and 8.25% for police officers, firefighters and correctional officers.

Beginning October 1, 2012, the contribution rates were increased to 7.50% for regular members and 8.50% for police officers, firefighters and correctional officers.

Regular members contribute 6% of salary and full-time certified firefighters, police officers and correctional officers contribute 7% of salary

If positive investment performance results in a decrease in the total contribution rate paid by employers and employees participating in the System, the Retirement System of Alabama shall first reduce the employee contribution rate.

"Regular Interest" is 4% which is the rate adopted by the Board and applied to the balance in each member's' account every year; however, if a member receives a refund of contributions, the interest rate applied to the refund is lower than the 4% regular rate (Based on Section 16-25-14-(g)(1)).

Term Life Insurance

Member Contributions

Tier I

Tier II

Both



# **SCHEDULE E**

## STATEMENT OF ACTUARIAL ASSUMPTIONS AND METHODS

INVESTMENT RATE OF RETURN: 7.70% per annum, compounded annually, including price inflation at 2.75%.

SALARY INCREASES: Representative values of the assumed annual rates of future salary increases are as follows and include wage inflation at 3.00% per annum:

Service	Annual Rate					
0	5.00 %					
1-5	4.00					
6-10	3.75					
11-15	3.50					
16 & Over	3.25					



SEPARATIONS BEFORE SERVICE RETIREMENT: Representative values of the assumed annual rates of death, disability, and withdrawal are as follows:

	Annual Rate of										
<u>Age</u>	Death*		Disability**			<u>Withdrav</u>	<u>wal</u> ***				
		<u>Tie</u>		<u>Tier II</u>							
		Υe	ears of Servi	ce		Years of Service					
		<u>10-24</u>	<u>25+</u>	<u>10+</u>	<u>0-4</u>	<u>5-9</u>	<u>10-19</u>	<u>20+</u>			
				<u>Male</u>							
	indio										
20	0.0293%	0.0008%		0.0008%	25.00%						
25	0.0319	0.0250		0.0250	14.80	11.00%					
30	0.0376	0.0425		0.0425	13.80	5.40	3.50%				
35	0.0655	0.1300		0.1300	13.50	5.40	2.50	0.50%			
40	0.0914	0.1700		0.1700	13.00	5.40	2.25	0.50			
45	0.1278	0.2700	0.2000%	0.2700	13.00	5.40	2.25	0.75			
50	0.1812	0.6000	0.2000	0.6000	12.00	5.00	2.50	0.80			
55	0.2567	0.9000	0.2000	0.9000	11.50	5.00	2.50	0.90			
60	0.3815	0.5000	0.5000	1.3000	12.00	4.50	2.50	0.90			
65	0.5353	0.5000	0.5000	0.5000	12.00	6.00					
69	0.6326	0.5000	0.5000	0.5000	12.00	6.25					
				<u>Female</u>							
20	0.0108%	0.0100%		0.0100%	25.00%						
25	0.0117	0.0275		0.0275	12.75	9.00%					
30	0.0149	0.0425		0.0425	13.50	5.80	4.30%				
35	0.0268	0.1000		0.1000	13.50	5.00	2.60	1.50%			
40	0.0399	0.2000		0.2000	11.50	4.75	2.00	1.50			
45	0.0635	0.3500	0.2000%	0.3500	10.75	4.10	2.00	0.50			
50	0.0947	0.6500	0.2000	0.6500	10.75	3.90	2.20	0.75			
55	0.1371	1.0500	0.2000	1.0500	11.00	4.20	2.40	0.80			
60	0.1929	0.5000	0.5000	1.4000	12.00	4.50	2.70	1.00			
65	0.2743	0.5000	0.5000	0.5000	15.00	6.75					
69	0.3435	0.5000	0.5000	0.5000	15.00	7.25					

<sup>\*</sup>Rates of pre-retirement mortality are according to the sex distinct RP-2000 Employee Mortality Table (with the sex distinct RP-2000 Combined Mortality Table used for ages over 70) projected with Scale BB to 2020 with an adjustment factor of 90% for males and 60% for females.

<sup>\*\*</sup>No rates of disability are assumed for members with less than 10 years of service.

<sup>\*\*\*</sup>No rates of withdrawal are assumed after eligibility for service retirement.



## SERVICE RETIREMENT:

The assumed annual rates of service retirement for **Tier I** members are as follows:

For members upon attaining 25 years of service, rates are as follows:

## **Annual Rate**

Age Group	Male*	Female**
47 & Under	25.0%	28.0%
48	25.0	20.0
49	20.0	17.0
50	16.5	13.0
51 to 53	16.0	15.0
54	16.0	17.0
55	16.0	18.0
56-57	16.0	19.0
58	16.0	21.0
59	20.0	22.0
60	20.0	30.0
61	20.0	27.5
62	35.0	45.0
63	30.0	35.0
64	23.0	32.0
65	28.0	38.0
66	27.0	40.0
67	22.0	35.0
68	22.0	37.0
69 to 70	22.0	30.0
71-74	20.0	30.0
75	100.0	100.0

<sup>\*</sup>For males, retirement rates are increased by 5% in the year first attaining 25 years of service from age 51 through age 60.

<sup>\*\*</sup>For females, retirement rates are increased by 9% in the year first attaining 25 years of service from age 50 through age 59.



For members first eligible for unreduced benefits before attaining 25 years of service, the rates are as follows:

	Annual Rate					
Age Group	<u>Male</u>	<u>Female</u>				
60	12.5%	17.0%				
61	11.0	13.5				
62	25.0	23.5				
63	18.5	18.0				
64	15.0	17.0				
65	28.0	28.0				
66	27.0	28.0				
67	22.0	23.0				
68	22.0	27.0				
69	22.0	22.0				
70	22.0	26.0				
71 to 74	20.0	24.0				
75 & Above	100.0	100.0				

The assumed annual rates of service retirement for **Tier II** members are as follows:

	Annual Rate								
Age Group	<u>N</u>	<u>lale</u> *	<u>Fe</u>	emale**					
Age Group	Less than 25	25 or more years	Less than 25	25 or more years					
	years of service	of service	years of service	of service					
62	50.0%	60.0%	50.0%	70.0%					
63	18.5	30.0	18.0	35.0					
64	15.0	23.0	17.0	32.0					
65	28.0	28.0	28.0	38.0					
66	27.0	27.0	28.0	40.0					
67	22.0	22.0	23.0	35.0					
68	22.0	22.0	27.0	37.0					
69	22.0	22.0	22.0	30.0					
70	22.0	22.0	26.0	30.0					
71 to 74	20.0	20.0	24.0	30.0					
75 & above	100.0	100.0	100.0	100.0					

<sup>\*</sup> For FLC Tier II members, rates on or after age 60 are the same as those for Tier I, while rates from ages 56 to 59 are equal to 0.20 for service less than 25 years and 0.30 for service greater than or equal to 25 years.

<sup>\*\*</sup> For FLC Tier II members, rates on or after age 60 are the same as those for Tier I, while rates from ages 56 to 59 are equal to 0.20 for service less than 25 years and 0.40 for service greater than or equal to 25 years.



DEATHS AFTER RETIREMENT: Rates of mortality for the period after service retirement are according to the RP-2000 White Collar Mortality Table projected to 2020 using scale BB and adjusted 115% for all ages for males and 112% for ages 78 and over for females. The rates of disabled mortality were based on the RP-2000 Disabled Mortality Table projected to 2020 using scale BB and adjusted 105% for males and 120% for females. Representative values of assumed mortality are as follows:

	Service Retire	ement	Disability Retirement			
<u>Age</u>	Male	<u>Female</u>	<u>Male</u>	<u>Female</u>		
55	0.3575%	0.2339%	3.5044%	1.7959%		
60	0.5579	0.3825	3.8359	2.1434		
65	0.9991	0.6795	4.1382	2.6417		
70	1.6384	1.1928	4.8570	3.5474		
75	2.8589	2.0200	6.3692	4.9231		
80	5.0501	3.7900	8.4883	6.8160		
85	8.8966	6.5271	10.9897	9.4450		
90	16.4327	11.3249	15.4359	13.4706		

SPOUSE'S BENEFIT: For those eligible for spouse's benefits, it is assumed that 75% will elect the lump sum death benefit payable from the death benefit fund and 25% will elect the spouse's benefit payable from the pension accumulation fund.

BENEFITS PAYABLE UPON SEPARATION FROM SERVICE: For active members who separate from service prior to eligibility for a service retirement allowance, the liability is assumed to be the greater of the value of the refund of contributions or the value of the deferred annuity.

UNUSED SICK LEAVE: 3% load on service retirement liabilities for active members. (No load for Tier II members)

PERCENTAGE MARRIED: 100% of active members are assumed to be married with the husband 3 years older than the wife.

VALUATION METHOD: Individual entry age normal cost method.

ASSET METHOD: Market Value

LIABILITY FOR CURRENT INACTIVE MEMBERS: Member Contribution Balance is multiplied by a factor of 2.0. for vested members with incomplete data and 1.0 for other inactive members.

LIABILITY FOR POST-DROP ACTIVE MEMBERS: Members are assumed to retire immediately and receive their accrued benefit.

COLA: No future ad hoc cost of living adjustments (COLAs) are assumed.

FUTURE SERVICE CREDIT: One year of creditable service per year of employment.



#### **SCHEDULE F**

# FUNDING POLICY OF THE TEACHERS' RETIREMENT SYSTEM BOARD OF CONTROL EFFECTIVE 9/30/2019

The purpose of the funding policy is to state the overall funding objectives for the Teachers' Retirement System of Alabama (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.

The funding policy reflects the Board's long-term strategy for stability in funding of the plan. For that reason, it is critical that this funding policy remain unchanged until its objectives 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 maintain an increasing funded ratio (ratio of system actuarial value of assets to actuarial accrued liabilities)
   that reflects a trend of improved actuarial condition. The long-term objective is to attain a funded ratio which is consistent with the fiscal health and long-term stability of the System.
  - To maintain adequate asset levels to finance the benefits promised to members and monitor the future demands for liquidity.
  - To develop a pattern of contribution rates expressed as a percentage of member payroll as measured by valuations prepared in accordance with applicable State laws and the principles of practice prescribed by the Actuarial Standards Board. In no event will the employer contribution rate be negative.
  - To provide intergenerational equity for taxpayers with respect to System costs.



#### II. Benchmarks

To track progress in achieving the previously outlined funding objectives, the following benchmarks will be measured annually as of the valuation date. The valuation date is the date that the annual actuarial valuation of the System's assets and liabilities is prepared. This date is currently September 30th each year 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 increase over time, before adjustments for changes in benefits, actuarial methods, and/or actuarial assumptions. An open amortization period is one for which the amortization period is recalculated on a yearly basis and the ending date of the amortization period is a variable with each recalculation. A closed amortization period is one which is calculated over a fixed period and at the end of that period, the amount is fully amortized.

### 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 (applicable only to employers participating in the System as of the adoption date of the funding policy).
- 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 valuation.

#### UAAL Amortization Period and Contribution Rates

- In each valuation 1/15th of the Transitional UAAL will be amortized over a closed period. The closed period shall be the amortization period for the valuation preceding the adoption of the funding policy not to exceed 30 years. The remaining Transitional UAAL each year will be amortized over an open period. The open period shall be the amortization period for the valuation preceding the adoption of the funding policy not to exceed 30 years. After 15 years the entire Transitional UAAL will be closed.
- Each New Incremental UAAL shall be amortized over a closed 30 year period.
- Incremental UAAL resulting from plan changes that grant benefit improvements shall be amortized over a period not to exceed 15 years.
- ➤ Employer Normal Contribution Rate the contribution rate determined as of the valuation date each year based on the provisions of Alabama Code Section 16-25-21.
- In each valuation subsequent to the adoption of this funding policy the required employer contribution rate will be determined by the summation of the employer Normal Contribution Rate, a contribution rate for administrative expenses, a contribution rate for the pre-retirement death benefit fund, a contribution rate for the term life insurance fund, the individual amortization rate for each of the New



Incremental UAAL bases, the individual amortization rate for each of the 15 closed periods for the Transitional UAAL and the amortization of any remaining open portion of the Transitional UAAL.

- UAAL Amortization Period for Employers joining the System after the Implementation of this Funding Policy
  - For Employers joining the System after the implementation of this Funding Policy, the employer contribution rate shall be computed as the sum of the employer Normal Contribution rate, a contribution rate for administrative expenses, a contribution rate for the pre-retirement death benefit fund, a contribution rate for the term life insurance fund, and the initial UAAL contribution rate. The initial UAAL contribution rate shall be determined by amortizing the initial UAAL over a closed period equal to the expected future working lifetime of the active membership. This initial amortization period shall not be less than 10 years nor greater than 30 years.
  - In subsequent years the UAAL and employer contribution rate shall be determined in accordance with the rules of the Funding Policy described in the previous section.

#### III. Methods and Assumptions

The actuarial funding method used to develop the benchmarks will be the Entry Age Normal (EAN) actuarial cost method. The actuarial methods and assumptions used will be those last adopted by the Board based upon the advice and recommendation of the actuary including the Interest Smoothing methodology. 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 those recommendations which shall include the Interest Smoothing Methodology.

# **IV. Funding Policy Progress**

The Board will periodically have projections of funded status performed to assess the current and expected future progress towards the overall funding goals of the System.