

The experience and dedication you deserve



Alabama Clerks and Registers
Supernumerary Fund Report
of the Actuary on the
Annual Valuation Prepared as of
September 30, 2022





The experience and dedication you deserve

February 3, 2023

Retirement Systems of Alabama Alabama Clerks and Registers Supernumerary Fund Montgomery, AL

Dear Sir or Madam:

In this report are submitted the results of the annual valuation of the assets and liabilities of the Alabama Clerks and Registers Supernumerary Fund (CRSF), prepared as of September 30, 2022. The purpose of this report is to provide a summary of the funded status of the Fund as of September 30, 2022, and to recommend rates of contribution. While not verifying the data at source, the actuary performed tests for consistency and reasonability.

The State of Alabama operates a program for Clerks and Registers consisting of the following: (1) pay as you go payments directly from the Administrative Office of Courts to clerks and registers upon election of supernumerary status (retirement), and (2) the Clerks and Registers Supernumerary Fund (CRSF) into which each active clerk and register must contribute six percent (6%) of salary and from which payments are made to surviving spouses of those who meet minimum service requirements.

We have prepared the valuation results using 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 as of September 30, 2022 (4.40%) to discount liabilities of the Fund. On this basis the State would need to contribute 266.86% of payroll to the CSRF for the year ending September 30, 2025.

The promised benefits of the Fund are included in the actuarially calculated contribution rates which are developed using the entry age normal cost method. In conjunction with the use of the discount rate described above, we recommend using market value of assets for valuation purposes. Gains and losses are reflected in the unfunded accrued liability that is being amortized over a 15-year period as a level dollar amount. The assumptions recommended by the actuary are in the aggregate reasonably related to the experience under the Fund and to reasonable expectations of anticipated experience under the Fund.

We have prepared the Schedule of Active Member Valuation Data, Schedule of Funding Progress, Trend Information and the Solvency Test for the financial section of the Annual Report.

This is to certify that the independent consulting actuary is a member of the American Academy of Actuaries and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the Fund and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the Fund.



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Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

Since the program is funded primarily on a pay-as-you-go basis, the Fund is not operating in an actuarially prefunded manner. Assuming that contributions to the Fund are made by the employer from year to year in the future at the rates recommended on the basis of the successive actuarial valuations, the sufficiency of the retirement fund to provide the benefits called for under the Fund may be safely anticipated.

In order to prepare the results in this report, we have utilized actuarial models that were developed to measure liabilities and develop actuarial costs. These models include tools that we have produced and tested, along with commercially available valuation software that we have reviewed to confirm the appropriateness and accuracy of the output. In utilizing, these models, we develop and use input parameters and assumptions about future contingent events along with recognized actuarial approaches to develop the needed results.

The Table of Contents, which immediately follows, outlines the material contained in the report.

Respectfully Submitted,

Larry Langer, ASA. EA, FCA, MAAA Principal and Consulting Actuary

Edward J. Noebel

Edward Koebel, EA, FCA, MAAA

Chief Executive Officer

Cathy Turcot

Principal and Managing Director

Jennifer Johnson Senior Consultant



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Section I: Summary of Principal Results

ALABAMA CLERKS AND REGISTERS SUPERNUMERARY FUND REPORT OF THE ACTUARY ON THE ANNUAL VALUATION PREPARED AS OF SEPTEMBER 30, 2022

1. For convenience of reference, the principal results of the valuation are summarized below:

VALUATION DATE	September 30, 2022	September 30, 2021
Discount Rate	4.40%	2.29%
Active clerks and registers:		
Number	48	50
Annual compensation	\$4,704,968	\$4,779,545
Supernumerary officials:		
Number	81	81
Annual allowances	\$6,237,989	\$6,041,258
Spouses receiving benefits:		
Number	20	20
Annual allowances	\$659,921	\$638,218
Former vested clerks and registers		
eligible for future benefits		
Number Estimated Annual allowances	0	0
Estimated Annual allowances	U	U
Assets:	\$40.040.070	#40 440 047
Actuarial Value Market Value	\$10,946,076	\$13,443,947
Market value	10,946,076	13,443,947
Unfunded accrued liability	\$114,253,091	\$143,115,441
Funded Ratio	8.7%	8.6%
CONTRIBUTIONS FOR FISCAL YEAR ENDING Actuarially Determined Employer Contribution Rate (ADEC):	September 30, 2025	September 30, 2024
(ADEC). Normal	45.59%	76.74%
Accrued Liability	221.27%	234.63%
Total	266.86%	311.37%
		
Employer Contribution Rate	266.86%	311.37%
Employee Contribution Rate	<u>6.00%</u>	<u>6.00%</u>
Total	<u>272.86%</u>	<u>317.37%</u>
Amortization Period	15 years	15 years





Section I: Summary of Principal Results

- Comments on the valuation results as of September 30, 2022 are given in Section IV and further discussion of the contribution levels is set out in Section V.
- 3. Schedule C outlines the full set of actuarial assumptions and methods employed in the current valuation. We have prepared valuation results using 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. The rates as of September 30, 2022 were 4.02%, 4.40%, and 4.77% for the Bond Buyer, Fidelity, and S&P Municipal Bond Indices, respectively. These three rates resulted in an average Municipal Bond Index Rate of 4.40% for September 30, 2022 to be used to discount liabilities of the Fund. The discount rate used in the previous valuation was 2.29%. There have been no other changes in assumptions since the previous valuation.
- 4. Provisions of the Fund, as summarized in Schedule E, were taken into account in the current valuation. There have been no changes since the previous valuation.





Section II: Membership

 The following table shows the number of active clerks and registers and their annual compensation as of September 30, 2022 on the basis of which the valuation was prepared.

TABLE 1

THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE CLERKS AND REGISTERS AS OF SEPTEMBER 30, 2022

GROUP	NUMBER	COMPENSATION
Males	15	\$1,460,639
Females	<u>33</u>	<u>3,244,329</u>
Total	48	\$4,704,968

2. The following table shows a history of active member valuation data.

TABLE 2
SCHEDULE OF ACTIVE MEMBER VALUATION DATA

Valuation		Annual	Annual	% Increase in
<u>Date</u>	<u>Number</u>	<u>Payroll</u>	<u>Average Pay</u>	<u>Average Pay</u>
9/30/2017	66	\$ 5,569,651	\$ 84,389	2.0%
9/30/2018	58	4,910,933	84,671	0.3%
9/30/2019	51	4,751,963	93,176	10.0%
9/30/2020	51	4,759,183	93,317	0.2%
9/30/2021	50	4,779,545	95,591	2.4%
9/30/2022	48	4,704,968	98,020	2.5%





Section II: Membership

3. The following table shows the number and annual retirement allowances payable to members in supernumerary status and their beneficiaries on the roll of the Retirement Fund as of the valuation date.

TABLE 3

THE NUMBER AND ANNUAL ALLOWANCES OF CLERKS AND REGISTERS IN SUPERNUMERARY STATUS AND SPOUSES IN RECEIPT AS OF SEPTEMBER 30, 2022

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES
Supernumerary Officials	81	\$6,237,989
Spouses Receiving Benefits	<u>20</u>	<u>659,921</u>
Total	101	\$6,897,910

In addition, there are 3 non-vested former clerks eligible for a refund of contributions.

4. Table 1 of Schedule F gives the distribution by age and by years of service of the active clerks and registers included in the valuation, while Table 2 gives the number and annual retirement allowances of supernumerary officials and spouses receiving benefits included in the valuation, distributed by age.





Section III: Assets

- 1. As of September 30, 2022, the total market value of assets reported by the System and used for valuation purposes amounted to \$10,946,076. The actuarial value of assets is equal to the market value of assets.
- 2. Schedule B shows the receipts and disbursements of the Fund for the two years preceding the valuation date and a reconciliation of the fund balances at market value.





Section IV: Comments On Valuation

- 1. Schedule A of this report contains the valuation balance sheet which shows the present and prospective assets and liabilities of the Fund as of September 30, 2022.
- 2. The valuation balance sheet shows that the Fund has total prospective liabilities of \$142,641,970. Of this amount, \$90,136,564 is for the prospective benefits payable on account of present supernumerary officials, spouses receiving benefits and former clerks and registers eligible for future benefits and \$52,505,406 is for the prospective benefits payable on account of present active clerks and registers. Against these liabilities, the Fund has total present actuarial value of assets of \$10,946,076 as of September 30, 2022. The difference of \$131,695,894 between the total liabilities and the total present actuarial value of assets represents the present value of contributions to be made in the future. Of this amount, \$2,031,975 is the present value of future contributions expected to be made by active clerks and registers, and the balance of \$129,663,919 represents the present value of future contributions payable by the employer.
- 3. The determination of the employer's required contributions consists of normal contributions and accrued liability contributions. The valuation indicates that employer normal contributions at the rate of 45.59% of payroll are required to provide the benefits of the Fund.
- 4. Prospective normal contributions at the rate of 45.59% have a present value of \$15,410,828. When this amount is subtracted from \$129,663,919 which is the present value of the total future contributions to be made by the employer, there remains \$114,253,091 as the amount of future accrued liability contributions. Annual accrued liability contributions at the rate of 221.27% of payroll will liquidate the unfunded accrued liability within 15 years from the valuation date.





Section V: Contributions Payable By Employer

1. On the basis of the actuarial valuation prepared as of September 30, 2022, it is recommended that the employer make contributions at the following rates:

TABLE 4
RECOMMENDED CONTRIBUTION RATES

PERCENTAGE OF ACTIVE CLERK AND REGISTERS' COMPENSATION		
Discount Rate	4.40%	
CONTRIBUTION RATE		
Normal	45.59%	
Accrued Liability	<u>221.27%</u>	
Total	266.86%	





Section VI: Analysis Of Financial Experience

The following table shows the estimated gain or loss from various factors that resulted in a decrease of \$28,862,350 in the unfunded accrued liability from \$143,115,441 to \$114,253,091 during the year ending September 30, 2022.

ANALYSIS OF FINANCIAL EXPERIENCE

(in thousands of dollars)

ITEM	AMOUNT OF INCREASE/ (DECREASE)
I I LIW	(DEGREE TOE)
Interest (2.29%) added to previous unfunded accrued liability	\$ 3,277.3
Accrued liability contribution*	(2,564.1)
Experience:	
Valuation asset growth	2,432.9
Pensioners' mortality	1,144.3
Turnover and retirements	153.9
New entrants	0.0
Salaryincreases	318.9
Method changes	0.0
COLA**	(729.4)
Change in Assumptions***	(35,141.9)
Data Change	2,144.0
Miscellaneous changes	 101.6
Total	\$ (28,862.5)

- * Equal to the estimated total employer contributions during the fiscal year (benefit payments from the general fund) less the estimated portion of contributions attributed to normal cost for the year, adjusted for interest to September 30, 2022 ((\$6,162,126 \$3,627,060) x 1.01145).
- ** (Gain) or Loss resulting from expected benefit increases during the year different from actual benefit increases.
- The discount rate used to measure the liabilities of the Fund increased from 2.29% in the previous valuation to 4.40% in the current valuation.





Section VII: Accounting Information

The Clerks and Registers Supernumerary Fund comes under the scope of Governmental Accounting Standards Board Statement 73 since benefits to Plan members are not paid from Plan assets. The following information is provided for informational purposes only.

1. The following is a distribution of the number of employees by type of membership, as follows:

NUMBER OF ACTIVE AND RETIRED MEMBERS AS OF SEPTEMBER 30, 2022

GROUP	NUMBER
Retirees and beneficiaries currently receiving benefits	101
Terminated employees entitled to benefits but not yet receiving benefits	0
Non-vested Inactive Members	3
Active Members	<u>48</u>
Total	152

2. The schedule of funding progress is shown below.

SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation <u>Date</u>	Actuarial Value of Assets (a)	Liability (AAL) Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a)/c)
9/30/2017 *	\$ 12,212,319	\$ 134,117,172	\$121,904,853	9.1%	\$ 5,569,651	2188.7%
9/30/2018 *	11,960,817	128,865,237	116,904,420	9.3%	4,910,933	2380.5%
9/30/2019 *	12,617,024	147,969,560	135,352,536	8.5%	4,751,963	2848.3%
9/30/2020 *	13,185,441	161,457,134	148,271,693	8.2%	4,759,183	3115.5%
9/30/2021 *	13,443,947	156,559,388	143,115,441	8.6%	4,779,545	2994.3%
9/30/2022 *	10,946,076	125,199,167	114,253,091	8.7%	4,704,968	2428.4%

^{*} Reflects change in the discount rate (20-year high-quality tax-exempt municipal bond index rate).





Section VII: Accounting Information

3. The information presented in the required supplementary schedules was determined as part of the actuarial valuation at September 30, 2022. Additional information as of the latest actuarial valuation follows.

Valuation date 9/30/2022

Actuarial cost method Entry Age

Amortization method Level dollar open

Remaining amortization period 15 years

Asset valuation method Market value

Actuarial assumptions:

Investment rate 4.40%

of return (discount rate)*

Projected salary increases* 2.75%

Cost-of-living adjustments 2.75%

*Includes inflation at 2.50%





Section VIII: Risk Assessment

Overview

Actuarial Standards of Practice (ASOP) No. 51, issued by the Actuarial Standards Board, provides guidance on assessing and disclosing risks related to pension plan funding. This guidance is binding on all credentialed actuaries practicing in the United States. This standard was issued as final in September 2017 with application to measurement dates on or after November 1, 2018.

Under ASOP 51, the actuary is called upon to identify the significant risks to the pension plan and provide information to help those sponsoring and administering the plan understand the implications of these risks. In this section, we identify some of the key risks for the System and provide information to help interested parties better understand these risks.

Investment Risk

The investment return on assets is the most obvious risk – and usually the largest risk – to funding a pension plan. In the case of the Clerks and Registers Supernumerary Fund, payments to supernumerary members, other than spousal death benefits, are made directly from the Administrative Office of Courts. Since the liabilities of the Fund are based on the 20-year high-quality tax-exempt municipal bond index rate, there is little investment risk associated with the program.

Mortality Risk

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

The future, however, is unknown, and actual mortality improvements may occur at a faster rate than expected, or at a slower rate than expected. Although changes in mortality will affect the benefits paid, this assumption is reviewed carefully during the regular experience studies that the System conducts so that incremental changes can be made to smoothly reflect emerging experience. The next experience investigation will be for the five-year period ending September 30, 2025.





Section VIII: Risk Assessment

Contribution Risk

The System is funded primarily by member contributions to the trust fund, together with the earnings on those accumulated contributions in order to pay for benefits to spouses of deceased members. Employer contributions are made directly to supernumerary members as the benefits become payable. Each year in the valuation, the Actuarial Determined Employer Contribution (ADEC) rate is determined. This rate is the sum of the rates for the normal cost for the plan, and the rate necessary to amortize the UAAL. Since the ADEC rate has never been made by the plan sponsors, and that procedure is expected to continue, there is a high risk that not enough sufficient assets will be accumulated to pay the promised benefits.





Schedule A: Valuation Balance Sheet and Solvency Test

VALUATION BALANCE SHEET SHOWING THE PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES OF THE ALABAMA CLERKS AND REGISTERS SUPERNUMERARY FUND AS OF SEPTEMBER 30, 2022

<u>ASSETS</u>		
Actuarial Value of Present Assets		\$ 10,946,076
Present value of future clerks' and registers' contributions		2,031,975
Present value of future employer contributions		
Normal contributions Unfunded accrued liability contributions	\$ 15,410,828 114,253,091	
Total prospective employer contributions		129,663,919
Total Assets	=	\$142,641,970
<u>LIABILITIES</u>		
Present value of benefits payable on account of Supernumerary officials, spouses receiving benefits, and		
former clerks and registers eligible for future benefits		\$ 90,136,564
Present value of prospective benefits payable on account of present active clerks and registers		<u>52,505,406</u>
Total Liabilities	<u>-</u>	\$142,641,970





Schedule A: Valuation Balance Sheet and Solvency Test

	Aggre	gate Accrued Liabil	lities For	<u>c</u>	Portion o Liab overed by Re	ilities	
Valuation Date	(1) Active Member Contributions	(2) Retirants and Beneficiaries	(3) Active Members (Employer Financed Portion)	Reported Assets	(1)	(2)	(3)
9/30/2017 9/30/2018 9/30/2019 9/30/2020 9/30/2021 9/30/2022	* 3,091,256 * 2,998,531 * 3,406,747 * 3,685,055	\$98,985,595 100,174,350 111,051,445 115,426,500 108,508,764 90,136,564	25,599,631 33,919,584 42,623,887 44,365,569	\$12,212,319 11,960,817 12,617,024 13,185,441 13,443,947 10,946,076	100% 100% 100% 100% 100% 100%	9% 9% 9% 8% 9%	0% 0% 0% 0% 0%

^{*} Reflects change in the discount rate (20-year high-quality tax-exempt municipal bond index rate).





Schedule B: Summary of Receipts and Disbursements

	YEAR E	NDING
Receipts for the Year	<u>September 30, 2022</u>	<u>September 30, 2021</u>
Contributions:		
Members	\$289,525	\$281,618
Employer*	0	0
Subtotal	\$289,525	\$281,618
Investment Income	337,207	373,800
Unrealized Gain (Loss)	(2,466,442)	256,634
TOTAL	(\$1,839,710)	\$912,052
Disbursements for the Year		
Benefit Payments**	\$658,161	\$643,067
Refunds to Members	0	10,479
TOTAL	\$658,161	\$653,546
Excess of Receipts over Disbursements	(2,497,871)	258,506
Reconciliation of Asset Balances		
Market Value of Assets as of Beginning of Year	\$13,443,947	\$13,185,441
Excess of Receipts over Disbursements	(2,497,871)	258,506
Market Value of Assets as of End of Year	<u>\$10,946,076</u>	\$13,443,947



^{*} No employer contributions are made to the Fund. Active members contribute 6% of salary for surviving spouse's benefits.

^{**} Represents benefit payments from the fund for surviving spouse's benefits. Benefit payments to Supernumerary officials are made on a pay-as-you-go basis from the Administrative Office of Courts.



Schedule C: Outline of Actuarial Assumptions and Methods

The assumptions and methods used in the valuation were selected based on the actuarial experience study prepared as of September 30, 2010, submitted to and adopted by the Board on January 27, 2014. The assumed mortality tables and salary increase rates were based on the actuarial experience study prepared for the Judicial Retirement Fund as of September 30, 2021, submitted to and adopted by the Board on September 14, 2022.

DISCOUNT RATE 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, 4.40% as of September 30, 2022, including inflation of 2.50%

SALARY INCREASES: 2.75% per annum for all ages, compounded annually

SEPARATIONS BEFORE ELIGIBILITY FOR SUPERNUMERARY STATUS: Representative values of the assumed annual rates of death, withdrawal and disability are as follows:

Withdrawal	Dear	th*	Disability**
	<u>Male</u>	<u>Female</u>	
0.00%	0.030%	0.017%	0.090%
0.00	0.041	0.026	0.110
0.00	0.057	0.040	0.170
5.50	0.090	0.062	0.300
2.50	0.149	0.093	0.500
2.50	0.232	0.135	0.880
2.50	0.357	0.204	1.560
2.50	0.529	0.307	2.250
	0.00% 0.00 0.00 5.50 2.50 2.50 2.50	Male 0.00% 0.030% 0.00 0.041 0.00 0.057 5.50 0.090 2.50 0.149 2.50 0.232 2.50 0.357	Male Female 0.00% 0.030% 0.017% 0.00 0.041 0.026 0.00 0.057 0.040 5.50 0.090 0.062 2.50 0.149 0.093 2.50 0.232 0.135 2.50 0.357 0.204

^{*} Rates of pre-retirement mortality are according to the Pub-2010 Teacher Employee Below Median Mortality Table adjusted by 65%; projected with the MP-2021 with an adjustment factor of 66-2/3% beginning with the year 2019.

RATES OF ATTAINING SUPERNUMERARY STATUS: The assumed annual rates of becoming a Supernumerary official are as follows:

<u>Age</u>	Annual Rate
54 & Under	25.0%
55- 59	22.0
60-64	20.0
65-69	12.0
70-74	15.0
70+	100.0



^{**} Disability rates turn off at retirement eligibility.



Schedule C: Outline of Actuarial Assumptions and Methods

DEATHS AFTER BECOMING A SUPERNUMERARY OFFICIAL: Rates of mortality for the period after becoming a supernumerary official are according to the Pub-2010 Family of Tables projected generationally with MP-2019 Scale adjusted by 66-2/3% beginning with year 2019, and with further adjustments are used for post-retirement mortality assumptions as follows:

Group	Membership Table	Set Forward(+) / Setback (-)	Adjustment to Rates
Service Retirees	Teacher Retiree-Below	Male: +2, Female: +2	Male: 108% ages < 63, 96%
	Median		ages > 67; Phasing down 63 -67
			Female: 112% ages < 69 98% >
			age 74
			Phasing down 69-74
Beneficiaries	Contingent Survivor	Male: +2, Female: None	None
	Below Median		
Disabled Retirees	Teacher Disability	Male: +8, Female: +3	None

Representative values of the assumed annual rates of mortality are as follows*:

Service Ret	tirement	Disability Retirement		Beneficiaries	
<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
0.4320%	0.3300%	2.7850%	1.8740%	1.1080%	0.7040%
0.6070	0.4290	3.5240	2.1100	1.3710	0.9210
0.8860	0.6270	4.5990	2.5690	1.9210	1.2430
1.5090	1.0940	6.3470	3.4640	2.9500	1.7840
2.7990	1.9140	9.2590	5.0750	4.5590	2.6990
5.1310	3.6810	13.6030	7.8110	7.1100	4.2580
9.3440	7.0020	20.5880	11.8780	11.3610	7.1270
16.2380	12.9240	28.7230	16.7400	18.3000	12.0640
	Male 0.4320% 0.6070 0.8860 1.5090 2.7990 5.1310 9.3440	0.4320% 0.3300% 0.6070 0.4290 0.8860 0.6270 1.5090 1.0940 2.7990 1.9140 5.1310 3.6810 9.3440 7.0020	Male Female Male 0.4320% 0.3300% 2.7850% 0.6070 0.4290 3.5240 0.8860 0.6270 4.5990 1.5090 1.0940 6.3470 2.7990 1.9140 9.2590 5.1310 3.6810 13.6030 9.3440 7.0020 20.5880	Male Female Male Female 0.4320% 0.3300% 2.7850% 1.8740% 0.6070 0.4290 3.5240 2.1100 0.8860 0.6270 4.5990 2.5690 1.5090 1.0940 6.3470 3.4640 2.7990 1.9140 9.2590 5.0750 5.1310 3.6810 13.6030 7.8110 9.3440 7.0020 20.5880 11.8780	Male Female Male Female Male 0.4320% 0.3300% 2.7850% 1.8740% 1.1080% 0.6070 0.4290 3.5240 2.1100 1.3710 0.8860 0.6270 4.5990 2.5690 1.9210 1.5090 1.0940 6.3470 3.4640 2.9500 2.7990 1.9140 9.2590 5.0750 4.5590 5.1310 3.6810 13.6030 7.8110 7.1100 9.3440 7.0020 20.5880 11.8780 11.3610

^{*} Base mortality rates as of 2010 before application of the improvement scale

ASSETS: Market value.

PERCENT MARRIED: 100% of active members are assumed to be married with the male three years older than his spouse.

VALUATION COST METHOD: Individual entry age actuarial cost method. Actuarial gains and losses are reflected in the unfunded actuarial accrued liability.

COST OF LIVING: Increases of 2.75% annually.

EXPENSE LOAD: None.





Schedule D: Actuarial Cost Method

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





Schedule E: Summary of Main Plan Provisions

AS INTERPRETED FOR VALUATION PURPOSES

The following summary describes the main benefit and contribution provisions of The Alabama Clerks and Registers Supernumerary Fund as interpreted for the valuation. The Fund was closed to new members effective November 8, 2016.

1 - DEFINITIONS

A "Supernumerary Official" is a former clerk or register who has met the age and service requirements who takes the oath of office as a Supernumerary Clerk or Register. "Service" is the service, prior service, and any other previous service established as creditable in accordance with the provisions of the retirement law.

2 - BENEFITS

Supernumerary Official Status

Condition for Allowance

A clerk or register may become a supernumerary official after he or she has completed 23 years of service at any age, or according to the following table:

<u>Age</u>	Years of Service
55 to 59	18
60	17
61	16
62 to 64	15
65 to 69	12
70	10

Amount of Allowance A supernumerary official is paid 75% of the State salary payable to

the clerk or register on the date he or she attains a supernumerary status. Increases in allowances are granted when active State

Employees receive a cost-of-living salary increase.

Disability Allowance

Condition for Allowance A disability supernumerary allowance may be granted to a member

who becomes totally and permanently disabled while in office and

who has 5 years or more of service.

Amount of Allowance 75% of the State salary payable to the clerk or register on the date

he or she attains supernumerary status.





Schedule E: Summary of Main Plan Provisions

Benefits Payable on Separation from Service with 12 or more Years of Service

Condition for Allowance Any clerk or register who ceases to be in service who has met the

service eligibility for supernumerary status (12 or more years) is entitled to be commissioned a supernumerary clerk or register upon

attaining the specified age.

Amount of Allowance 75% of the State salary payable to the clerk or register on the date

he or she attains supernumerary status.

Benefits Payable on Separation From Service with less than

12 Years of Service Refund employee contributions plus accrued interest.

Benefits Payable upon Death in Active Service

Condition for Allowance In case of the death of a clerk or register in active service who is

eligible for supernumerary status, a spousal benefit is payable to the

surviving spouse.

Amount of Allowance 3% at the salary payable from the State treasury for the position of

circuit clerk for each year of service, not to exceed 30%.

Benefits Payable upon

Death in Supernumerary Status

Condition for Allowance Surviving spouses of clerks and registers who assume

supernumerary status on or after January 16, 1989, are eligible for

spousal benefits upon the death of the clerk or register.

Amount of Allowance 3% at the salary payable from the State treasury for the position of

circuit clerk for each year of service, not to exceed 30%.

Form of Payment Modified cash refund.

3 - CONTRIBUTIONS

Member Contributions Each active clerk and register contributes 6% of salary.





Schedule F: Schedule of Membership Data

TABLE 1

NUMBER OF ACTIVE CLERKS AND REGISTERS BY AGE AND SERVICE AS OF SEPTEMBER 30, 2022

	Years of Service									
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & Up	Total
Under 30										
30 to 34										
35 to 39			1							1
40 to 44			1							1
45 to 49			5	1	1					7
50 to 54			6		4					10
55 to 59			5	1	2		1			9
60 to 64			6	1	4	1				12
65 to 69			2		4	2				8
70 & Up										
Total			26	3	15	3	1			48

Average Age: 56.71 Average Service: 12.56





Schedule F: Schedule of Membership Data

TABLE 2

NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF SUPERNUMERARY OFFICIALS AND SPOUSES RECEIVING BENEFITS AS OF SEPTEMBER 30, 2022

Age	Number of Members	Total Annual Benefits
Under 50	1	\$ 33,886
50 – 54	0	0
55 – 59	3	203,782
60 – 64	2	165,908
65 – 69	22	1,688,480
70 – 74	21	1,635,023
75 – 79	13	960,637
80 – 84	21	1,318,175
85 – 89	12	568,054
90 – 94	6	323,965
95 & Over	0	0
Total	101	\$ 6,897,910

Average Age: 75.65

