GASB Statement Nos. 67 and 68 Accounting and Financial Reporting for Pensions
June 30, 2020





November 12, 2020

Board of Trustees Arkansas Judicial Retirement System Little Rock, Arkansas

Ladies and Gentlemen:

This report provides information required by the Retirement System in connection with the Governmental Accounting Standards Board (GASB) Statement No. 67 "Financial Reporting for Pension Plans" and Governmental Accounting Standards Board (GASB) Statement No. 68 "Accounting and Financial Reporting for Pensions."

Our actuarial calculations for this report were prepared for the purpose of complying with the requirements of GASB Statement Nos. 67 and 68. These calculations have been made on a basis that is consistent with our understanding of these accounting standards.

Our calculation of the liability associated with the benefits described in this report was performed for the purpose of satisfying the requirements of GASB Statement Nos. 67 and 68. The Net Pension Liability is not an appropriate measure for measuring the sufficiency of plan assets to cover the estimated cost of settling the employer's benefit obligation. The Net Pension Liability is not an appropriate measure for assessing the need for or amount of future employer contributions. The calculation of the plan's liability for this report may not be applicable for funding purposes of the plan. A calculation of the plan's liability for purposes other than satisfying the requirements of GASB Statement Nos. 67 and 68 may produce significantly different results. This report may be provided to parties other than the System only in its entirety and only with the permission of the Retirement Board. GRS is not responsible for unauthorized use of this report.

This report is based upon information, furnished to us by Retirement System staff, concerning retirement and ancillary benefits, active members, deferred vested members, retirees and beneficiaries, and financial data. If your understanding of this information is different, please let us know. This information was checked for internal consistency, but it was not audited.

This information is presented in draft form for review by the plan's auditor. Please let us know if there are any items that the auditor changes so that we may maintain consistency with the plan's financial statements.

Board of Trustees November 12, 2020 Page 2

Please see the actuarial valuation report as of June 30, 2020 for additional discussions of the nature of actuarial calculations and more information related to participant data, economic and demographic assumptions, and benefit provisions.

This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

To the best of our knowledge, this report is complete, accurate, and in accordance with generally recognized actuarial methods. Mita D. Drazilov is a Member of the American Academy of Actuaries (MAAA) and meets the Qualification Standards of the Academy of Actuaries to render the actuarial opinions herein. The signing individuals are independent of the plan sponsor.

Respectfully submitted,

Nata Drazilor

Mita D. Drazilov, ASA, FCA, MAAA

David X: Hoffman

David L. Hoffman

MDD/DLH:sc



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SECTION A

EXECUTIVE SUMMARY

Executive Summary as of June 30, 2020

Actuarial Valuation Date	J	une 30, 2020
Measurement Date of the Net Pension Liability	J	une 30, 2020
Employer's Fiscal Year Ending Date (Reporting Date)	J	une 30, 2020
Membership		
Number of		
- Retirees and Beneficiaries		148
- Inactive, Nonretired Members		8
- Active Members		142
- Total		298
Covered Payroll	\$	24,586,078
Net Pension Liability		
Total Pension Liability	\$	296,653,578
Plan Fiduciary Net Position		280,837,139
Net Pension Liability	\$	15,816,439
Plan Fiduciary Net Position as a Percentage		
of Total Pension Liability		94.67%
Net Pension Liability as a Percentage		
of Covered Payroll		64.33%
Development of the Single Discount Rate		
Single Discount Rate		5.75%
Long-Term Expected Rate of Investment Return		5.75%
Long-Term Municipal Bond Rate*		2.45%
Last year ending June 30 in the 2021 to 2120 projection period		
for which projected benefit payments are fully funded		2120
Total Pension Expense	\$	4,977,875

Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future Pension Expenses

rces	(of Resources
of Resources \$ 1,826,921		
326,921	\$	2,884,696
0		-
0		6,849,084
326,921	\$	9,733,780
	0	0

^{*}Source: Fixed-income municipal bonds with 20 years to maturity that include only federally tax-exempt municipal bonds as reported in Fidelity Index's "20-Year Municipal GO AA Index" as of June 30, 2020. In describing this index, Fidelity notes that the municipal curves are constructed using option-adjusted analytics of a diverse population of over 10,000 tax-exempt securities.



Discussion

Accounting Standard

For pension plans that are administered through trusts or equivalent arrangements, Governmental Accounting Standards Board (GASB) Statement No. 67 establishes standards of financial reporting for separately issued financial reports and specifies the required approach for measuring the pension liability. Similarly, GASB Statement No. 68 establishes standards for state and local government employers (as well as non-employer contributing entities) to account for and disclose the net pension liability, pension expense, and other information associated with providing retirement benefits to their employees (and former employees) on their basic financial statements.

The following discussion provides a summary of the information that is required to be disclosed under these accounting standards. A number of these disclosure items are provided in this report. However, certain information, such as notes regarding accounting policies and investments, is not included in this report and the Retirement System and/or plan sponsor will be responsible for preparing and disclosing that information to comply with these accounting standards.

Financial Statements

GASB Statement No. 68 requires state or local governments to recognize the net pension liability and the pension expense on their financial statements. The net pension liability is the difference between the total pension liability and the plan's fiduciary net position. In traditional actuarial terms, this is analogous to the accrued liability less the market value of assets (not the smoothed actuarial value of assets that is often encountered in actuarial valuations performed to determine the employer's contribution requirement).

Paragraph 57 of GASB Statement No. 68 states, "Contributions to the pension plan from the employer subsequent to the measurement date of the collective net pension liability and before the end of the employer's reporting period should be reported as a deferred outflow of resources related to pensions." The information contained in this report does not incorporate any contributions made to the Arkansas Judicial Retirement System subsequent to the measurement date of **June 30, 2020**.

The pension expense recognized each fiscal year is equal to the change in the net pension liability from the beginning of the year to the end of the year, adjusted for deferred recognition of the liability and investment experience.

Pension plans that prepare their own, stand-alone financial statements are required to present two financial statements – a statement of fiduciary net position and a statement of changes in fiduciary net position in accordance with GASB Statement No. 67. The *statement of fiduciary net position* presents the assets and liabilities of the pension plan at the end of the pension plan's reporting period. The *statement of changes in fiduciary net position* presents the additions, such as contributions and investment income, and deductions, such as benefit payments and expenses, and net increase or decrease in the fiduciary net position.



Notes to Financial Statements

GASB Statement No. 68 requires the notes of the employer's financial statements to disclose the total pension expense, the pension plan's liabilities and assets, and deferred outflows and inflows of resources related to pensions.

GASB Statement Nos. 67 and 68 require the notes of the financial statements for the employers and pension plans, to include certain additional information. The list of disclosure items should include:

- A description of benefits provided by the plan;
- The type of employees and number of members covered by the pension plan;
- A description of the plan's funding policy, which includes member and employer contribution requirements;
- The pension plan's investment policies;
- The pension plan's fiduciary net position, net pension liability, and the pension plan's fiduciary net position as a percentage of the total pension liability;
- The net pension liability using a discount rate that is 1% higher and 1% lower than used to calculate the total pension liability and net pension liability for financial reporting purposes;
- Significant assumptions and methods used to calculate the total pension liability;
- Inputs to the discount rates; and
- Certain information about mortality assumptions and the dates of experience studies.

Retirement systems that issue stand-alone financial statements are required to disclose additional information in accordance with GASB Statement No. 67. This information includes:

- The composition of the pension plan's Board and the authority under which benefit terms may be amended;
- A description of how fair value is determined;
- Information regarding certain reserves and investments, which include concentrations of investments greater than or equal to 5%, receivables, and insurance contracts excluded from plan assets; and
- Annual money-weighted rate of return.



Required Supplementary Information

GASB Statement No. 67 requires a 10-year fiscal history of:

- Sources of changes in the net pension liability;
- Information about the components of the net pension liability and related ratios, including the pension plan's fiduciary net position as a percentage of the total pension liability, and the net pension liability as a percent of covered-employee payroll; and
- A comparison of the actual employer contributions to the actuarially determined contributions based on the plan's funding policy.

Timing of the Valuation

An actuarial valuation to determine the total pension liability is required to be performed at least every two years. The net pension liability and pension expense should be measured as of the pension plan's fiscal year end (measurement date) on a date that is within the employer's prior fiscal year. If the actuarial valuation used to determine the total pension liability is not calculated as of the measurement date, the total pension liability is required to be rolled forward from the actuarial valuation date to the measurement date.

The total pension liability shown in this report is based on an actuarial valuation performed as of June 30, 2020 and a measurement date of June 30, 2020.

Single Discount Rate

Projected benefit payments are required to be discounted to their actuarial present values using a Single Discount Rate that reflects (1) a long-term expected rate of return on pension plan investments (to the extent that the plan's fiduciary net position is projected to be sufficient to pay benefits) and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating (which is published by the Federal Reserve) as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met).

For the purpose of this valuation, the expected rate of return on pension plan investments is 5.75%; the municipal bond rate is 2.45% (based on the weekly rate closest to but not later than the measurement date of the "20-Year Municipal GO AA Index" rate from Fidelity); and the resulting Single Discount Rate is 5.75%.





FINANCIAL STATEMENTS

Statement of Pension Expense Under GASB Statement No. 68 Fiscal Year Ended June 30, 2020

A. Expense

10. Total Pension Expense	\$ 4,977,875
9. Recognition of Outflow (Inflow) of Resources due to Assets	(1,349,597)
8. Recognition of Outflow (Inflow) of Resources due to Liabilities	(689,610)
7. Other Changes in Plan Fiduciary Net Position (made negative for addition here)	(1,129)
6. Pension Plan Administrative Expense	141,891
5. Projected Earnings on Plan Investments (made negative for addition here)	(15,257,121)
4. Employee Contributions (made negative for addition here)	(1,138,323)
3. Current-Period Benefit Changes	0
2. Interest on the Total Pension Liability	16,175,509
1. Service Cost	\$ 7,096,255



Statement of Outflows and Inflows Arising from Current Reporting Period Fiscal Year Ended June 30, 2020

A. Outflows (Inflows) of Resources due to Liabilities		
1. Difference between expected and actual experience		
of the Total Pension Liability (gains) or losses	\$	2,340,115
2. Assumption Changes (gains) or losses	\$	-
3. Recognition period for Liabilities: Average of the		
expected remaining service lives of all employees {in years}		4.5599
4. Outflow (Inflow) of Resources to be recognized in the current pension expense for the		
difference between expected and actual experience		
of the Total Pension Liability	\$	513,194
5. Outflow (Inflow) of Resources to be recognized in the current pension expense for		
Assumption Changes	\$	-
6. Outflow (Inflow) of Resources to be recognized in the current pension expense		
due to Liabilities: 4. + 5.	\$	513,194
7. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for the		
difference between expected and actual experience		
of the Total Pension Liability: 1 4.	\$	1,826,921
8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for		
Assumption Changes: 2 5.	\$	-
9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses		
due to Liabilities: 7. + 8.	\$	1,826,921
B. Outflows (Inflows) of Resources due to Assets		
1. Net difference between projected and actual earnings on		
pension plan investments (gains) or losses	\$	(2,177,033)
2. Recognition period for Assets {in years}	Y	5.0000
Outflow (Inflow) of Resources to be recognized in the current pension expense		3.0000
due to Assets	\$	(435,407)
4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses	Y	(133) 137)
due to Assets: 1 3.	Ś	(1,741,626)
	Τ	, -,,,



Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods Fiscal Year Ended June 30, 2020

A. Outflows and Inflows of Resources due to Liabilities and Assets to be Recognized in Current Pension Expense

	C	Outflows of Resources		Inflows of Resources		et Outflows
	of					Resources
1. Due to Liabilities	\$	743,036	\$	1,432,646	\$	(689,610)
2. Due to Assets		3,102,900		4,452,497		(1,349,597)
3. Total	\$	3,845,936	\$	5,885,143	\$	(2,039,207)

B. Outflows and Inflows of Resources by Source to be Recognized in Current Pension Expense

	Outflows		Inflows		Net Outflows	
	of	Resources	of	Resources	of Resources	
1. Differences between expected and actual experience	\$	513,194	\$	1,432,646	\$	(919,452)
2. Assumption Changes		229,842		-		229,842
3. Net Difference between projected and actual						
earnings on pension plan investments		3,102,900		4,452,497		(1,349,597)
4. Total	\$	3,845,936	\$	5,885,143	\$	(2,039,207)

C. Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future Pension Expenses

	Deferred Outflows of Resources			erred Inflows Resources	Outflows of Resources		
1. Differences between expected and actual experience	\$	1,826,921	\$	2,884,696	\$	(1,057,775)	
2. Assumption Changes		-		-		0	
3. Net Difference between projected and actual							
earnings on pension plan investments		-		6,849,084		(6,849,084)	
4. Total	\$	1,826,921	\$	9,733,780	\$	(7,906,859)	

D. Deferred Outflows and Deferred Inflows of Resources by Year to be Recognized in Future Pension Expenses

Year Ending June 30		Net Deferred Outflows of Resources		
2021	\$	(5,036,021)		
2022		(2,105,652)		
2023		(617,120)		
2024		(148,066)		
2025		0		
Thereafter		0		
Total	Ś	(7.906.859)		



Not Deferred

Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods Fiscal Year Ended June 30, 2020

Year Established	ln	itial Amount	Initial Recognition Period		urrent Year Recognition	Remai	ning Recognition	Remaining Recognition Period
- 4				_				_
	•	•			-		perience on Liabilit	
2017	\$	(3,462,751)	3.3223	\$	(335,926)	\$	-	0.0000
2018		(743,902)	5.0513		(147,269)		(302,095)	2.0513
2019		(4,481,503)	4.7201		(949,451)		(2,582,601)	2.7201
2020		2,340,115	4.5599		513,194		1,826,921	3.5599
Total				\$	(919,452)	\$	(1,057,775)	
Deferred Outflow	/ (Inf	flow) due to Ass	sumption Chan	ges				
2017	\$	2,369,244	3.3223	\$	229,842	\$	-	0.0000
2018		-	5.0513		-		-	2.0513
2019		-	4.7201		-		-	2.7201
2020		-	4.5599		-		-	3.5599
Total				\$	229,842	\$	-	
Deferred Outflow	/ (Inf	flow) due to Dif	ferences Betwo	een P	rojected and A	Actual Ea	arnings on Plan Inve	stments
2016	\$	15,514,504	5.0000	\$	3,102,900	\$	-	0.0000
2017		(14,651,848)	5.0000		(2,930,370)		(2,930,368)	1.0000
2018		(5,415,354)	5.0000		(1,083,071)		(2,166,141)	2.0000
2019		(18,247)	5.0000		(3,649)		(10,949)	3.0000
2020		(2,177,033)	5.0000		(435,407)		(1,741,626)	4.0000
Total		, , , ,,		\$	(1,349,597)	\$	(6,849,084)	



Statement of Fiduciary Net Position as of June 30, 2020

Assets		
Cash and Deposits	\$	2,307,123
Receivables		
Accounts Receivable - Sale of Investments	\$	1,446,507
Accrued Interest and Other Dividends		-
Contributions		169,504
Accounts Receivable - Other		-
Total Receivables	\$	1,616,011
Investments		
Fixed Income	\$	90,017,146
Domestic Equities		97,612,690
International Equities		54,262,022
Real Estate		24,220,615
Other		11,821,617
Total Investments	\$	277,934,090
Total Assets	\$	281,857,224
Liabilities		
Payables		
Accounts Payable - Purchase of Investments	\$	-
Accrued Expenses	•	274,689
Accounts Payable - Other		745,396

Total Liabilities

Net Position Restricted for Pensions



1,020,085

\$ 280,837,139

Statement of Changes in Fiduciary Net Position for Year Ended June 30, 2020

Αd	d	į١	ti	O	ns	

Contributions		
Employer	\$	8,572,697
Employee		1,138,323
Other		1,129
Total Contributions	\$	9,712,149
Investment Income		
Net Appreciation in Fair Value of Investments	\$	18,489,138
Interest and Dividends		-
Less Investment Expense		(1,054,984)
Net Investment Income	\$	17,434,154
Other	\$	-
Total Additions	\$	27,146,303
Deductions		
Benefit payments, including refunds of employee contributions	\$	13,446,760
Pension Plan Administrative Expense		141,891
Other		-
Total Deductions	\$	13,588,651
Net Increase in Net Position	\$	13,557,652
Net Position Restricted for Pensions		
Beginning of Year	\$ 2	267,279,487
End of Year	\$?	280,837,139





REQUIRED SUPPLEMENTARY INFORMATION

Schedules of Required Supplementary Information Schedule of Changes in Net Pension Liability and Related Ratios Current Period Fiscal Year Ended June 30, 2020

A. Total pension liability	
1. Service Cost	\$ 7,096,255
2. Interest on the Total Pension Liability	16,175,509
3. Changes of benefit terms	0
4. Difference between expected and actual experience	
of the Total Pension Liability	2,340,115
5. Changes of assumptions	0
6. Benefit payments, including refunds	
of employee contributions	 (13,446,760)
7. Net change in total pension liability	\$ 12,165,119
8. Total pension liability – beginning	284,488,459
9. Total pension liability – ending	\$ 296,653,578
B. Plan fiduciary net position	
1. Contributions – employer	\$ 8,572,697
2. Contributions – employee	1,138,323
3. Net investment income	17,434,154
4. Benefit payments, including refunds	
of employee contributions	(13,446,760)
5. Pension Plan Administrative Expense	(141,891)
6. Other	1,129
7. Net change in plan fiduciary net position	\$ 13,557,652
8. Plan fiduciary net position – beginning	267,279,487
9. Plan fiduciary net position – ending	\$ 280,837,139
C. Net pension liability	\$ 15,816,439
D. Plan fiduciary net position as a percentage	
of the total pension liability	94.67%
E. Covered-employee payroll	\$ 24,586,078
F. Net pension liability as a percentage	
of covered-employee payroll	64.33%



Schedules of Required Supplementary Information Schedule of Changes in Net Pension Liability and Related Ratios

Ultimately 10 Fiscal Years will be Displayed

Fiscal year ending June 30,	 2020	2019	2018	2017	2016	2015		2014
Total Pension Liability								
Service Cost	\$ 7,096,255	\$ 6,919,400	\$ 6,927,257	\$ 7,221,153	\$ 7,230,267	\$ 5,342,168	\$	5,319,836
Interest on the Total Pension Liability	16,175,509	15,877,675	15,378,982	16,121,127	15,770,309	14,883,382		14,607,426
Benefit Changes	-	-	-	-	-	-		-
Difference between Expected and Actual Experience	2,340,115	(4,481,503)	(743,902)	(3,462,751)	(5,184,045)	12,969,853		(5,751,106)
Assumption Changes	-	-	-	2,369,244	-	24,290,229		-
Benefit Payments	(13,440,774)	(12,979,769)	(12,769,175)	(12,310,422)	(12,007,538)	(10,762,871)		(9,966,020)
Refunds	 (5,986)	(22,024)		(79,011)	(800)	(14,320)		(18,836)
Net Change in Total Pension Liability	12,165,119	5,313,779	8,793,162	9,859,340	5,808,193	46,708,441		4,191,300
Total Pension Liability - Beginning	\$ 284,488,459	\$ 279,174,680	\$ 270,381,518	\$ 260,522,178	\$ 254,713,985	\$ 208,005,544	\$:	203,814,244
Total Pension Liability - Ending (a)	\$ 296,653,578	\$ 284,488,459	\$ 279,174,680	\$ 270,381,518	\$ 260,522,178	\$ 254,713,985	\$:	208,005,544
Plan Fiduciary Net Position								
Employer Contributions	\$ 8,572,697	\$ 8,233,959	\$ 8,421,173	\$ 8,485,361	\$ 5,561,289	\$ 5,690,381	\$	6,117,327
Employee Contributions	1,138,323	988,612	1,016,180	1,016,646	1,011,372	946,149		925,324
Pension Plan Net Investment Income	17,434,154	14,655,787	19,162,603	28,044,374	(1,744,085)	9,971,823		29,793,113
Benefit Payments	(13,440,774)	(12,979,769)	(12,769,175)	(12,310,422)	(12,007,538)	(10,762,871)		(9,966,020)
Refunds	(5,986)	(22,024)	-	(79,011)	(800)	(14,320)		(18,836)
Pension Plan Administrative Expense	(141,891)	(147,062)	(142,311)	(168,701)	(158,420)	(137,951)		(130,529)
Other	1,129	41,854	12	45,832	-	-		
Net Change in Plan Fiduciary Net Position	\$ 13,557,652	\$ 10,771,357	\$ 15,688,482	\$ 25,034,079	\$ (7,338,182)	\$ 5,693,211	\$	26,720,379
Plan Fiduciary Net Position - Beginning	\$ 267,279,487	\$ 256,508,130	\$ 240,819,648	\$ 215,785,569	\$ 223,123,751	\$ 217,430,540	\$ 1	190,710,161
Plan Fiduciary Net Position - Ending (b)	\$ 280,837,139	\$ 267,279,487	\$ 256,508,130	\$ 240,819,648	\$ 215,785,569	\$ 223,123,751	\$:	217,430,540
Net Pension Liability - Ending (a) - (b)	\$ 15,816,439	\$ 17,208,972	\$ 22,666,550	\$ 29,561,870	\$ 44,736,609	\$ 31,590,234	\$	(9,424,996)
Plan Fiduciary Net Position as a Percentage								_
of Total Pension Liability	94.67 %	93.95 %	91.88 %	89.07 %	82.83 %	87.60 %		104.53 %
Covered-Employee Payroll	\$ 24,586,078	\$ 23,602,735	\$ 23,434,639	\$ 22,917,870	\$ 22,308,000	\$ 22,308,000	\$	19,781,628
Net Pension Liability as a Percentage								
of Covered-Employee Payroll	64.33 %	72.91 %	96.72 %	128.99 %	200.54 %	141.61 %		(47.65)%
Notes to Schedule:								
N/A								



Schedules of Required Supplementary Information Schedule of the Net Pension Liability

Ultimately 10 Fiscal Years will be Displayed

Total						Net Pension Liability		
FY Ending		Pension		Plan Net	Net Pension	as a % of Total	Covered	as a % of
June 30,		Liability		Position	Liability	Pension Liability	 Payroll	Covered Payroll
2014	\$	208,005,544	\$	217,430,540	\$ (9,424,996)	104.53%	\$ 19,781,628	(47.65)%
2015		254,713,985		223,123,751	31,590,234	87.60%	22,308,000	141.61%
2016		260,522,178		215,785,569	44,736,609	82.83%	22,308,000	200.54%
2017		270,381,518		240,819,648	29,561,870	89.07%	22,917,870	128.99%
2018		279,174,680		256,508,130	22,666,550	91.88%	23,434,639	96.72%
2019		284,488,459		267,279,487	17,208,972	93.95%	23,602,735	72.91%
2020		296,653,578		280,837,139	15,816,439	94.67%	24,586,078	64.33%



Schedule of Contributions

Last 10 Fiscal Years

FY Ending June 30,	Actuarially Determined Contribution	Actual Contribution	Contribution Deficiency (Excess)	Covered Payroll	Actual Contribution as a % of Covered Payroll*
2011	\$ 5,220,623	\$ 5,220,623	\$ -	\$ 19,337,991	27.43%
2012	5,465,079	5,465,079	-	19,201,734	29.08%
2013	5,672,291	5,672,291	-	19,585,755	29.93%
2014	6,117,327	6,117,327	-	19,781,628	31.46%
2015	5,690,381	5,690,381	-	22,308,000	29.12%
2016	5,561,289	5,561,289	-	22,308,000	25.09%
2017	8,485,361	8,485,361	-	22,917,870	37.99%
2018	8,421,173	8,421,173	-	23,434,639	37.37%
2019	8,233,959	8,233,959	-	23,602,735	35.87%
2020	8,572,697	8,572,697	-	24,586,078	35.90%

^{*} Actual contributions are based on covered payroll at the time of the contribution. This payroll is not reported to the actuary. The covered payroll shown on this page is the valuation payroll.



Notes to Schedule of Contributions

Valuation Date: June 30, 2018

Methods and Assumptions Used to Determine Contribution Rates for Fiscal Year Ending June 30, 2020:

Actuarial Cost Method Entry Age Normal

Amortization Method Level Percentage of Payroll, Closed

Remaining Amortization Period Multiple periods of 14, 19 and 20 years

Asset Valuation Method 4-Year smoothed market; 25% corridor

Inflation 2.50% price inflation

Salary Increases 3.25%

Investment Rate of Return 5.75%

Retirement Age Experience-based table of rates that are specific to the type of

eligibility condition.

Mortality RP-2014 mortality tables, adjusted for mortality improvement back

to the observation period base year of 2006, and using the MP-2016

improvement scale.

Other Information:

Notes Assumptions were updated based on the five-year Experience

Study covering the priod July 1, 2011 through June 30, 2016. There were no benefit changes reflected in the June 30, 2018 valuation.



Schedule of Investment Returns Multiyear

To be provided by System

Last 10 Fiscal Years

FY Ending	Annual
June 30,	Return ¹
2011	
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	

¹ Annual money-weighted rate of return, net of investment expenses.





NOTES TO FINANCIAL STATEMENTS

Long-Term Expected Return on Plan Assets

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return 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 price inflation. Best estimates of arithmetic real rates of return for the 10-year period from 2020 to 2029 were based upon capital market assumptions provided by plan's investment consultant(s). For each major asset class that is included in the pension plan's target asset allocation as of June 30, 2020, these best estimates are summarized in the following table:

		Long-Term
	Target	Expected Real
Asset Class	Allocation	Rate of Return
Broad Domestic Equity	37%	6.22%
International Equity	15%	6.69%
Real Estate	8%	4.81%
Cash Equivalents	0%	0.02%
Domestic Fixed	40%	0.57%
Total	100%	
Total Real Rate of Return		3.92%
Plus: Price Inflation - Actuary's	Assumption	2.50%
Less: Investment Expenses		0.00%
Net Expected Return		6.42%



Single Discount Rate

A single discount rate of 5.75% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 5.75%. The projection of cash flows used to determine this single 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 these 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.

Regarding the sensitivity of the net pension liability to changes in the single discount rate, the following presents the plan's net pension liability, calculated using a single discount rate of 5.75%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher:

Sensitivity of Net Pension Liability to the Single Discount Rate Assumption

			Cu	rrent Single Discount		
	1	% Decrease	Rate	e Assumption	1	% Increase
-		4.75%		5.75%		6.75%
Total Pension Liability (TPL)	\$	332,112,954	\$	296,653,578	\$	266,594,642
Net Position Restricted for Pensions		280,837,139		280,837,139		280,837,139
Net Pension Liability (NPL)	\$	51,275,815	\$	15,816,439	\$	(14,242,497)



Summary of Population Statistics as of June 30, 2020

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	148
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	8
Active Plan Members	142
Total Plan Members	298



SECTION **E**

SUMMARY OF BENEFITS

Summary of Provisions Considered (July 1, 2020)

Tier One Tier Two

Description

Elected or appointed prior to the effective date of Act 399 of 1999 and who do not elect to participate in Tier Two.

Elected or appointed after the effective date of Act 399 of 1999 or elected to participate in Tier Two.

Regular Retirement

An active member may retire at age 65 with 10 or more years of credited service, or after 20 years of credited service regardless of age. Persons who become members after June 30, 1983 must also have at least 8 years of actual service as a justice of the Supreme Court, or as a judge of the Circuit or Chancery Courts or the Court of Appeals.

An active member or former member may retire at age 65 with 8 or more years of credited service, or after 20 years of credited service regardless of age.

Compulsory Retirement

Any judge or justice who attains 70 years of age during a term of office to which he has been elected may complete the term without forfeiting rights to retirement benefits. Any judge or justice who is not eligible to retire at age 70 may continue to serve as judge until completion of the term in which there has accrued sufficient credited service to retire. Otherwise, judges or justices must retire by their 70th birthday or lose their retirement benefits.

Any judge or justice who attains 70 years of age during a term of office to which he has been elected may complete the term without forfeiting rights to retirement benefits. Any judge or justice who is not eligible to retire at age 70 may continue to serve as judge until completion of the term in which there has accrued sufficient credited service to retire. Otherwise, judges or justices must retire by their 70th birthday or lose their retirement benefits.

Final Salary

The annual salary for the last judicial office held.

The annual salary for the last judicial office held.

Age & Service Annuity

60% of the judge's final salary, for life.

Each year of additional service after twenty (20) years of judicial service, the benefit shall be increased by two and one-half percent (2.5%) with a maximum benefit payable of seventy-five percent (75%) of the judge's final salary.

3.2% of the salary of the last judicial office held multiplied by the number of years of service not to exceed 80% of the salary of the last judicial office held.



Summary of Provisions Considered (Continued)

Tier One Tier Two

Deferred Retirement

An inactive member who has 14 or more years of credited service and left judicial service before attaining age 65 will be entitled to an age and service annuity beginning at age 65. Persons who become members after June 30, 1983 must also have at least 8 years of actual service as a justice of the Supreme Court, or as a judge of the Circuit or Chancery Courts or the Court of Appeals.

An inactive member who has 8 or more years of credited service and left judicial service before attaining age 65 will be entitled to an age and service annuity beginning at age 65.

Disability Retirement

An active member with 3 or more consecutive years of credited service who becomes totally and permanently disabled may be retired and receive a disability annuity computed in the same manner as an age and service annuity. The 3 years of service is not required for persons who were members before July 1, 1983.

An active member with 3 or more consecutive years of credited service who becomes totally and permanently disabled may be retired and receive a disability annuity computed in the same manner as an age and service annuity, except that the benefit shall not be less than 25.6% of final salary.

Early Retirement

A member who became a member before July 1, 1983 and who has 18 but less than 20 years credited service may retire, regardless of age, and receive an immediate annuity. The amount is the full age and service amount reduced proportionately for service less than 20 years.

A member with 14 years of credited service may retire between ages 62 and 65 and receive an immediate annuity. The amount is the full age and service amount reduced 1/2 of 1% for each month that retirement age is younger than age 65. Persons who become members after June 30, 1983 must also have at least 8 years of actual service as a justice of the Supreme Court, or as a judge of the Circuit Court or Chancery Courts or the Court of Appeals.

A member with 8 years of credited service may retire between ages 62 and 65 and receive an immediate annuity. The amount is the full age and service amount reduced 1/2 of 1% for each month retirement age is younger than age 65.



Summary of Provisions Considered (Concluded)

Tier One Tier Two

Survivor Benefits

Upon the death of a member with 3 or more years of service, before or after retirement, an annuity of 67% of the judge's benefit is payable to the following survivors (shared if there is more than one eligible survivor):

- A surviving spouse married to the judge more than 1 year at the time of death.
- A minor child of the judge.

The 3-year service requirement is not required of those who became members prior to July 1, 1983.

Upon the death of a member with 3 or more years of service, before or after retirement, an annuity of 67% of the judge's benefit, but not less than 17.152% of final salary, is payable to the following survivors (shared if there is more than one eligible survivor):

- A surviving spouse married to the judge more than 1 year at the time of death.
- A minor child of the judge.

The 3-year service requirement is not required of those who became members prior to July 1, 1983.

Increases After Retirement

For any person who was a member on or before June 30, 1983, the retirement benefits are increased or decreased from time to time as the salary for the particular judicial office is increased or decreased. For all judges or justices first elected after June 30, 1983, and who have received retirement benefits from the System for at least 12 full calendar months, the retirement benefits are increased each July 1st by 3%.

For all judges or justices who have received retirement benefits from the System for at least 12 full calendar months, the retirement benefits are increased each July 1st by 3%.

Member Contributions

Active members contribute 6% of their salaries. Members with 20 or more years of service and members age 65 or older with 10 or more years of service do not contribute to the Retirement System. At any time a member is accruing the additional 2.5% of final salary benefit, member contributions would be required. If a member leaves service before becoming eligible to retire, accumulated contributions may be refunded.

Active members contribute 5% of their salaries. Members with 25 or more years of service do not contribute to the Retirement System. If a member leaves service before becoming eligible to retire, accumulated contributions may be refunded.





Summary of Assumptions Used for Arkansas Judicial Actuarial Valuations Assumptions Adopted by Board of Trustees After Consulting with the Actuary

The actuarial assumptions used in the valuation are shown in this Section. Assumptions were established based upon an Experience Study covering the period July 1, 2011 through June 30, 2016 (please see report dated May 2, 2017). The actuarial assumptions represent estimates of future experience.

Economic Assumptions

The investment return rate used in making the valuation was 5.75% per year, compounded annually (net after investment expenses). Adopted 2017.

Pay increase assumptions for individual active members are shown on page 25. Part of the assumption for each age is for a merit and/or seniority increase, and the other 3.25% recognizes wage inflation. This wage inflation assumption consists of 2.50% for price inflation and 0.75% for real wage growth. Adopted 2015 and readopted 2017.

Total active member payroll is assumed to increase 3.25% a year, which is the portion of the individual pay increase assumptions recognizing inflation.

The number of active members is assumed to continue at the present number.

Non-Economic Assumptions

The healthy mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 Healthy Annuitant table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The disabled retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 disabled mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The pre-retirement mortality tables used were the RP-2014 employees mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. It was assumed that 100% of pre-retirement deaths would be non-duty related. Mortality rates for a particular calendar year are determined by applying the MP- 2016 improvement scale to the above described tables. Related values are shown on pages 25 and 27. Adopted 2017.

(Concluded on the following page.)



Summary of Assumptions Used for Arkansas Judicial Actuarial Valuations Assumptions Adopted by Board of Trustees After Consulting with the Actuary (Concluded)

The probabilities of retirement for members eligible to retire are shown on page 26. Adopted 2012.

The probabilities of withdrawal from service, death-in-service and disability are shown for sample ages on page 25. Adopted 2017.

Normal Cost. Normal Cost and the allocation of benefit values between service rendered before and after the valuation date was determined using an individual entry-age actuarial cost method having the following characteristics.

- The annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement; and
- Each annual normal cost is a constant percentage of the member's year-by-year projected covered pay.

The normal cost, the present value of future normal cost and the present value of benefits are based on the benefit levels available to each member. The accrued liability is the difference between the present value of benefits and the present value of future normal cost.

Funding value of assets (cash & investments) was determined by phasing-in differences between actual market return and the assumed rate of return over a four-year period.

The data about persons now covered and about present assets was furnished by the System's administrative staff. Although examined for general reasonableness, the data was not audited by the actuary.

The actuarial valuation computations were made by or under the supervision of a Member of the American Academy of Actuaries (MAAA).



Decrement and Pay Increase Assumptions for Active Members June 30, 2020

				Percent o	of					
			Active I	Members S	eparating		Pay Inc	crease Assum	ptions	
2020			Witl	nin the Ne	kt Year		for Individual Member			
Sample	Years of	М	Male		nale		Merit &	Base	Increase	
Ages	Service	Death	Disability	Death	Disability	Withdrawal	Seniority	(Economic)	Next Year	
	0					6.00%				
	1					6.00%				
	2					6.00%				
	3					6.00%				
	4					6.00%				
30	5+	0.05%	0.04%	0.02%	0.05%	1.00%	0.00%	3.25%	3.25%	
35		0.05%	0.04%	0.03%	0.05%	1.00%	0.00%	3.25%	3.25%	
40		0.06%	0.10%	0.04%	0.18%	1.00%	0.00%	3.25%	3.25%	
45		0.09%	0.13%	0.06%	0.20%	1.00%	0.00%	3.25%	3.25%	
50		0.16%	0.25%	0.10%	0.28%	1.00%	0.00%	3.25%	3.25%	
55		0.27%	0.45%	0.17%	0.38%	1.00%	0.00%	3.25%	3.25%	
60		0.47%	0.71%	0.26%	0.51%	1.00%	0.00%	3.25%	3.25%	
65		0.85%	0.83%	0.38%	0.62%	1.00%	0.00%	3.25%	3.25%	

The pay increase assumptions are age based only, and not service based.

Probabilities of death are for calendar year 2020.



Probabilities of Retirement for Members Eligible to Retire June 30, 2020

Retirement Ages	Percent of Eligible Active Members Electing Early Retirement Within Next Year					
62	2%					
63	2%					
64	2%					

Normal Retirement

- 1) For ages under 70, a 4% probability of retirement is used.
- 2) For ages 70 and over
 - a. If the future year of consideration is an odd year, then a 4% probability of retirement is used.
 - b. If the future year of consideration is an even year,
 - i. For members under the age of 76, a 33% probability of retirement is used.
 - ii. For members ages 76 or older, a 100% probability of retirement is used.

For Tier One, a member was assumed eligible to retire at age 50 with 20 years of service, or at age 65 with 10 years of service. A member was assumed eligible to retire early at age 62 with 14 years of service.

For Tier Two, a member was assumed eligible to retire at age 50 with 20 years of service, or at age 65 with 8 years of service. A member was assumed eligible to retire early at age 62 with 8 years of service.



Single Life Retirement Values June 30, 2020

			Present	Value of		
Attained	Percent	t Dying	\$1 Month	ly for Life	Future Life	
Age in	Next Year		Increasing 3	8% Annually	Expectancy (Years)	
2020	Men	Women	Men	Women	Men	Women
50	0.3874%	0.2633%	\$235.52	\$245.57	34.79	37.37
55	0.5565%	0.3684%	217.47	228.22	30.02	32.43
60	0.7846%	0.5543%	196.97	208.22	25.44	27.64
65	1.1345%	0.8287%	174.18	185.77	21.08	23.07
70	1.6906%	1.2745%	149.37	160.89	16.99	18.73
75	2.6731%	2.0720%	123.06	134.04	13.20	14.68
80	4.4887%	3.5404%	96.50	106.52	9.81	11.03

Sample		Portion of Age 65 Lives		
Attained	\$100 Benefit	in 2017 Still Alive		
Ages	Increasing 3% Annually	Men	Women	
65	\$100.00	100%	100%	
70	115.93	93%	95%	
75	134.39	85%	88%	
80	155.80	73%	78%	
85	180.61	56%	64%	

Probabilities of death are for calendar year 2020.



Summary of Assumptions Used June 30, 2020

Miscellaneous and Technical Assumptions

Marriage Assumption: 80% of males and 80% of females are assumed to be married for

purposes of death-in-service benefits. 80% of members are assumed to be married at retirement. Male spouses are assumed to be six years older than female spouses for active member valuation purposes. Actual data is used for retired valuation

purposes.

Pay Increase Timing: Beginning of (Fiscal) year. This is equivalent to assuming that

reported pays represent amounts paid to members during the

year ended on the valuation date.

Decrement Timing: Decrements of all types are assumed to occur mid-year.

Eligibility Testing: Eligibility for benefits is determined based upon the age nearest

birthday and service nearest whole year on the date the

decrement is assumed to occur.

Benefit Service: Exact fractional service is used to determine the amount of benefit

payable.

Decrement Relativity: Decrement rates are used directly from the experience study,

without adjustment for multiple decrement table effects.

Decrement Operation: Disability and withdrawal do not operate during retirement

eligibility.

Normal Form of Benefit: The assumed normal form of benefit is the 67% joint and survivor

benefit.

Incidence of Contributions: Contributions are assumed to be received continuously

throughout the year based upon the computed percent-of-payroll shown in this report, and the actual payroll payable at the time

contributions are made.

Tier 1 2.5% Benefit For present value of future benefit purposes, it was assumed that

all Tier 1 members will elect to accrue the additional 2.5% benefit

multiplier (if they have not already done so). Member

contribution rates are based upon those members that have elected to accrue the additional 2.5% benefit multiplier as of the

valuation date.

Administrative Expenses: The computed contribution rate was increased by 0.7% of payroll

to fund for administrative expenses.

Additional Adjustments: The actuarial accrued liabilities were increased by \$4.3 million to

reflect potential future salary/COLA increases in excess of the

actuarial assumptions.



Multiplier Election:



CALCULATION OF THE SINGLE DISCOUNT RATE

Calculation of the Single Discount Rate

GASB Statement No. 67 includes a specific requirement for the discount rate that is used for the purpose of the measurement of the Total Pension Liability. This rate considers the ability of the fund to meet benefit obligations in the future. To make this determination, employer contributions, employee contributions, benefit payments, expenses and investment returns are projected into the future. The Plan Net Position (assets) in future years can then be determined and compared to its obligation to make benefit payments in those years. As long as assets are projected to be on hand in a future year, the assumed valuation discount rate is used. In years where assets are not projected to be sufficient to meet benefit payments, the use of a "risk-free" rate is required, as described in the following paragraph.

The Single Discount Rate (SDR) is equivalent to applying these two rates to the benefits that are projected to be paid during the different time periods. The SDR reflects (1) the long-term expected rate of return on pension plan investments (during the period in which the fiduciary net position is projected to be sufficient to pay benefits) and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met).

For the purpose of this valuation, the expected rate of return on pension plan investments is 5.75%; the municipal bond rate is 2.45%; and the resulting single discount rate is 5.75%.

The tables in this section provide background for the development of the single discount rate.

The **Projection of Contributions** table shows the development of expected contributions in future years. Normal Cost contributions for future hires are not included (nor are their liabilities).

The **Projection of Plan Fiduciary Net Position** table shows the development of expected asset levels in future years.

The **Present Values of Projected Benefit Payments** table shows the development of the Single Discount Rate. It breaks down the benefit payments into present values for funded and unfunded portions and shows the equivalent total at the SDR.



Single Discount Rate Development Projection of Contributions

Year	Contributions from Current Employees	Normal Cost and Expense Contributions	UAL Contributions	Total Contributions
0				
1	\$ 893,848	\$ 6,470,123	\$ 1,883,321	\$ 9,247,293
2	825,525	6,092,154	1,844,458	8,762,136
3	757,755	5,745,964	1,893,600	8,397,320
4	692,217	5,380,820	1,945,599	8,018,636
5	587,260	5,079,261	2,052,324	7,718,845
6	548,895	4,702,862	2,160,663	7,718,843
7	516,531	4,702,802	2,100,003	7,412,420
8	442,589	4,082,047	2,407,442	6,932,078
9	442,369	3,856,965	2,502,703	6,769,515
10	366,508	3,629,639	2,584,041	
11	340,682	3,399,671	2,668,022	6,580,188 6,408,375
12				
	295,226	3,176,534	2,754,733	6,226,493
13 14	283,596	2,965,516	(888,520)	2,360,592
	251,012	2,762,346	(917,397)	2,095,961
15	222,422	2,623,615	(947,212)	1,898,824
16	205,272	2,464,268	(977,997)	1,691,544
17	198,824	2,304,219	(1,009,782)	1,493,261
18	163,670	2,165,750	(1,306,113)	1,023,307
19	144,264	1,977,306	(1,307,232)	814,338
20	124,376	1,777,970	(766,802)	1,135,543
21	114,604	1,596,887	-	1,711,491
22	75,106	1,438,268	-	1,513,374
23	68,218	1,294,790	-	1,363,008
24	12,433	1,194,646	-	1,207,079
25	3,516	1,012,928	-	1,016,444
26	-	818,724	-	818,724
27	-	701,566	-	701,566
28	-	580,145	-	580,145
29	-	497,586	-	497,586
30	-	411,872	-	411,872
31	-	327,448	-	327,448
32	-	239,752	-	239,752
33	-	202,777	-	202,777
34	-	164,412	-	164,412
35	-	122,950	-	122,950
36	-	79,911	-	79,911
37	-	51,721	-	51,721
38	-	22,507	-	22,507
39	-	18,756	-	18,756
40	-	14,874	-	14,874
41	-	7,559	-	7,559
42	-	-	-	-
43	-	-	-	-
44	-	-	-	-
45	-	-	-	-
46	-	-	-	-
47	-	-	-	-
48	-	-	-	-
49	-	-	-	-
50	-	-	-	-



Single Discount Rate Development Projection of Plan Fiduciary Net Position

			Projected				
	Projected		Projected Projected		Investment		
	Beginning Plan	Projected Total	Benefit	Administrative	Earnings at	Projected Ending Plan	
Year	Net Position	Contributions	Payments	Expenses	5.75%	Net Position	
	(a)	(b)	(c)	(d)	(e)	(f)=(a)+(b)-(c)-(d)+(e)	
1	\$ 280,837,139	\$ 9,247,293	\$ 14,609,435	\$ 166,604	\$ 15,991,406	\$ 291,299,798	
2	291,299,798	8,762,136	15,618,841	156,939	16,550,914	300,837,069	
3	300,837,069	8,397,320	16,606,996	147,976	17,061,207	309,540,624	
4	309,540,624	8,018,636	17,572,538	138,655	17,523,819	317,371,886	
5	317,371,886	7,718,845	18,610,704	129,528	17,936,447	324,286,946	
6	324,286,946	7,412,420	19,631,642	120,180	18,296,700	330,244,244	
7	330,244,244	7,180,360	20,661,026	112,329	18,603,707	335,254,957	
8	335,254,957	6,932,078	21,678,769	104,129	18,856,166	339,260,303	
9	339,260,303	6,769,515	22,343,775	98,413	19,063,176	342,650,806	
10	342,650,806	6,580,188	23,059,159	92,410	19,232,653	345,312,078	
11	345,312,078	6,408,375	23,691,549	86,583	19,363,043	347,305,364	
12	347,305,364	6,226,493	24,246,891	80,476	19,456,931	348,661,421	
13	348,661,421	2,360,592	24,688,902	75,491	19,412,924	345,670,544	
14	345,670,544	2,095,961	25,092,954	70,219	19,222,143	341,825,475	
15	341,825,475	1,898,824	25,341,687	66,312	18,988,522	337,304,821	
16	337,304,821	1,691,544	25,543,193	62,198	18,717,113	332,108,087	
17	332,108,087	1,493,261	25,674,093	58,424	18,409,076	326,277,907	
18	326,277,907	1,023,307	25,730,905	54,486	18,059,019	319,574,843	
19	319,574,843	814,338	25,862,321	49,745	17,664,078	312,141,194	
20	312,141,194	1,135,543	25,949,988	44,739	17,243,406	304,525,416	
21	304,525,416	1,711,491	25,948,485	40,299	16,821,994	297,070,118	
22	297,070,118	1,513,374	25,880,747	35,690	16,389,749	289,056,805	
23	289,056,805	1,363,008	25,670,389	32,249	15,930,782	280,647,957	
24	280,647,957	1,207,079	25,420,387	28,679	15,450,041	271,856,010	
25	271,856,010	1,016,444	25,282,233	24,199	14,943,143	262,509,166	
26	262,509,166	818,724	25,081,976	19,550	14,405,904	252,632,268	
27	252,632,268	701,566	24,636,721	16,812	13,847,360	242,527,661	
28	242,527,661	580,145	24,159,123	13,973	13,276,523	232,211,233	
29	232,211,233	497,586	23,583,102	11,941	12,697,375	221,811,151	
30	221,811,151	411,872	22,993,278	9,832	12,113,720	211,333,633	
31	211,333,633	327,448	22,393,781	7,804	11,525,922	200,785,418	
32	200,785,418	239,752	21,772,760	5,697	10,934,578	190,181,292	
33	190,181,292	202,777	21,014,839	4,828	10,345,303	179,709,704	
34	179,709,704	164,412	20,250,981	3,926	9,763,779	169,382,989	
35	169,382,989	122,950	19,502,848	2,927	9,190,054	159,190,218	
36	159,190,218	79,911	18,753,573	1,890	8,624,019	149,138,685	
37	149,138,685	51,721	17,970,758	1,225	8,067,467	139,285,891	
38	139,285,891	22,507	17,191,023	535	7,522,227	129,639,067	
39	129,639,067	18,756	16,351,013	446	6,991,244	120,297,609	
40	120,297,609	14,874	15,516,048	354	6,477,672	111,273,753	
41	111,273,753	7,559	14,697,013	180	5,981,816	102,565,936	
42	102,565,936	7,555	13,884,932	100	5,503,929	94,184,932	
43	94,184,932	-	13,062,275	-	5,045,342	86,167,999	
44	86,167,999	-	12,250,534	_	4,607,379	78,524,844	
45	78,524,844	_	11,450,672	_	4,190,573	71,264,745	
46	71,264,745	_	10,663,684	_	3,795,427	64,396,488	
47	64,396,488	_	9,891,377	_	3,422,395	57,927,507	
48	57,927,507	_	9,136,428	_	3,071,830	51,862,909	
49	51,862,909	_	8,401,975	_	2,743,937	46,204,871	
50	46,204,871	-	7,690,668	-	2,438,764	40,952,967	
30	. 5,20 1,57 1		.,555,656		2,130,704	10,552,507	



Single Discount Rate Development Present Values of Projected Benefits

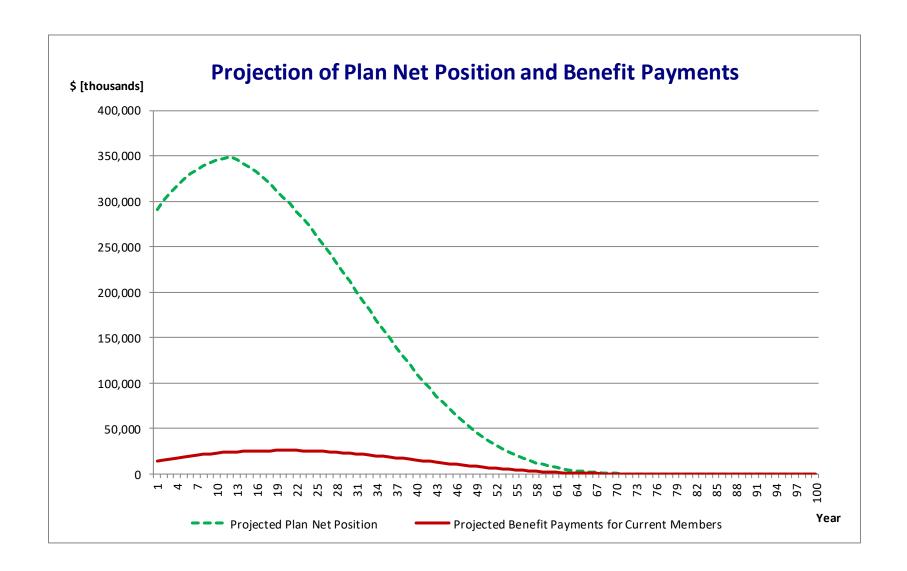
Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Benefit Payments	Unfunded Portion of Benefit Payments	Present Value of Funded Benefit Payments using Expected Return Rate (v)	Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf)	Present Value of Benefit Payments using Single Discount Rate (sdr)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*v^((a)5)	(g)=(e)*vf ^((a)5)	(h)=(c)/(1+s dr)^(a5)
1	\$ 280,837,139	\$14,609,435	\$ 14,609,435	\$ -	\$ 14,206,701	\$ -	\$ 14,206,701
2	291,299,798	15,618,841	15,618,841	-	14,362,441	-	14,362,441
3	300,837,069	16,606,996	16,606,996	-	14,440,763	-	14,440,763
4	309,540,624	17,572,538	17,572,538	-	14,449,512	-	14,449,512
5	317,371,886	18,610,704	18,610,704	-	14,471,086	-	14,471,086
6	324,286,946	19,631,642	19,631,642	-	14,434,926	-	14,434,926
7	330,244,244	20,661,026	20,661,026	-	14,365,787	-	14,365,787
8	335,254,957	21,678,769	21,678,769	-	14,253,837	-	14,253,837
9	339,260,303	22,343,775	22,343,775	-	13,892,275	-	13,892,275
10	342,650,806	23,059,159	23,059,159	-	13,557,508	-	13,557,508
11	345,312,078	23,691,549	23,691,549	-	13,171,933	-	13,171,933
12	347,305,364	24,246,891	24,246,891	-	12,747,697	-	12,747,697
13	348,661,421	24,688,902	24,688,902	-	12,274,310	-	12,274,310
14	345,670,544	25,092,954	25,092,954	-	11,796,868	-	11,796,868
15	341,825,475	25,341,687	25,341,687	-	11,266,008	-	11,266,008
16	337,304,821	25,543,193	25,543,193	-	10,738,147	-	10,738,147
17	332,108,087	25,674,093	25,674,093	-	10,206,313	-	10,206,313
18	326,277,907	25,730,905	25,730,905	-	9,672,717	-	9,672,717
19	319,574,843	25,862,321	25,862,321	-	9,193,493	-	9,193,493
20	312,141,194	25,949,988	25,949,988	-	8,723,079	-	8,723,079
21	304,525,416	25,948,485	25,948,485	-	8,248,297	-	8,248,297
22	297,070,118	25,880,747	25,880,747	-	7,779,447	-	7,779,447
23	289,056,805	25,670,389	25,670,389	-	7,296,658	-	7,296,658
24	280,647,957	25,420,387	25,420,387	-	6,832,715	-	6,832,715
25	271,856,010	25,282,233	25,282,233	-	6,426,081	-	6,426,081
26	262,509,166	25,081,976	25,081,976	-	6,028,540	-	6,028,540
27	252,632,268	24,636,721	24,636,721	-	5,599,548	-	5,599,548
28	242,527,661	24,159,123	24,159,123	-	5,192,432	-	5,192,432
29	232,211,233	23,583,102	23,583,102	-	4,793,031	-	4,793,031
30	221,811,151	22,993,278	22,993,278	-	4,419,059	-	4,419,059
31	211,333,633	22,393,781	22,393,781	-	4,069,827	-	4,069,827
32	200,785,418	21,772,760	21,772,760	-	3,741,809	-	3,741,809
33	190,181,292	21,014,839	21,014,839	-	3,415,182	-	3,415,182
34	179,709,704	20,250,981	20,250,981	-	3,112,099	-	3,112,099
35	169,382,989	19,502,848	19,502,848	-	2,834,165	-	2,834,165
36	159,190,218	18,753,573	18,753,573	-	2,577,097	-	2,577,097
37	149,138,685	17,970,758	17,970,758	-	2,335,246	-	2,335,246
38	139,285,891	17,191,023	17,191,023	-	2,112,456	-	2,112,456
39	129,639,067	16,351,013	16,351,013	-	1,899,985	-	1,899,985
40	120,297,609	15,516,048	15,516,048	-	1,704,929	-	1,704,929
41	111,273,753	14,697,013	14,697,013	-	1,527,122	-	1,527,122
42	102,565,936	13,884,932	13,884,932	-	1,364,295	-	1,364,295
43	94,184,932	13,062,275	13,062,275	-	1,213,676	-	1,213,676
44	86,167,999	12,250,534	12,250,534	-	1,076,363	-	1,076,363
45	78,524,844	11,450,672	11,450,672	-	951,380	-	951,380
46	71,264,745	10,663,684	10,663,684	-	837,819	-	837,819
47	64,396,488	9,891,377	9,891,377	-	734,885	-	734,885
48	57,927,507	9,136,428	9,136,428	-	641,887	-	641,887
49	51,862,909	8,401,975	8,401,975	-	558,191	-	558,191
50	46,204,871	7,690,668	7,690,668	-	483,154	-	483,154



Single Discount Rate Development Present Values of Projected Benefits (Concluded)

Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Benefit Payments	Unfunded Portion of Benefit Payments	Present Value of Funded Benefit Payments using Expected Return Rate (v)	Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf)	Present Value of Benefit Payments using Single Discount Rate (sdr)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*v^((a)5)	(g)=(e)*vf ^((a)5)	(h)=(c)/(1+sdr)^(a5)
51	\$40,952,967	\$7,004,768	\$ 7,004,768	\$ -	\$ 416,136	\$ -	\$ 416,136
52	36,104,422	6,346,964	6,346,964	-	356,555	-	356,555
53	31,653,538	5,720,259	5,720,259	-	303,876	-	303,876
54	27,591,198	5,127,437	5,127,437	-	257,573	-	257,573
55	23,904,901	4,570,376	4,570,376	-	217,106	-	217,106
56	20,579,495	4,049,582	4,049,582	-	181,907	-	181,907
57	17,598,435	3,565,029	3,565,029	_	151,433	_	151,433
58	14,944,254	3,117,043	3,117,043	_	125,205	-	125,205
59	12,598,143	2,706,090	2,706,090	_	102,787	-	102,787
60	10,539,734	2,332,393	2,332,393	_	83,776	-	83,776
61	8,747,256	1,995,402	1,995,402	_	67,775	_	67,775
62	7,198,256	1,693,686	1,693,686	_	54,399	_	54,399
63	5,870,457	1,425,438	1,425,438	_	43,294	_	43,294
64	4,742,162	1,188,816	1,188,816	_	34,144	_	34,144
65	3,792,319	981,978	981,978	_	26,670	_	26,670
66	3,000,562	802,963	802,963		20,622	_	20,622
67	2,347,369	649,601	649,601	_	15,776		15,776
68	1,814,327	519,516	519,516	_	11,931	-	11,931
				-	•	-	
69	1,384,407	410,340	410,340	-	8,911	-	8,911
70	1,042,038	319,827	319,827	-	6,568	-	6,568
71	773,061	245,798	245,798	-	4,773	-	4,773
72	564,746	186,095	186,095	-	3,417	-	3,417
73	405,849	138,641	138,641	-	2,407	-	2,407
74	286,614	101,510	101,510	-	1,667	-	1,667
75	198,707	72,979	72,979	-	1,133	-	1,133
76	135,084	51,473	51,473	-	756	-	756
77	89,919	35,557	35,557	-	494	-	494
78	58,524	24,017	24,017	=	315	-	315
79	37,191	15,840	15,840	=	197	-	197
80	23,041	10,192	10,192	-	120	-	120
81	13,885	6,384	6,384	-	71	-	71
82	8,118	3,886	3,886	-	41	-	41
83	4,589	2,287	2,287	-	23	-	23
84	2,501	1,298	1,298	-	12	-	12
85	1,310	706	706	-	6	-	6
86	659	363	363	-	3	-	3
87	324	181	181	-	1	-	1
88	156	91	91	-	1	-	1
89	72	47	47	-	-	-	-
90	28	24	24	-	=	-	-
91	5	5	5	-	-	-	-
92	-	-	-	-	-	-	-
93	-	-	-	-	-	-	-
94	-	-	-	-	-	-	-
95	-	-	-	-	-	-	-
96	-	-	-	-	-	-	-
97	-	-	-	-	-	-	-
98	-	-	-	-	-	-	-
99	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-
				Totals	\$ 354,534,656	\$ -	\$ 354,534,656







SECTION **H**

GLOSSARY OF TERMS

Accrued Service Service credited under the system which was rendered before the date of

the actuarial valuation.

Actuarial Accrued Liability

(AAL)

The AAL is the difference between the actuarial present value of all benefits and the actuarial value of future normal costs. The definition comes from the fundamental equation of funding which states that the present value of all benefits is the sum of the Actuarial Accrued Liability and the present value of future normal costs. The AAL may also be

referred to as "accrued liability" or "actuarial liability."

Actuarial Assumptions These assumptions are estimates of future experience with respect to

rates of mortality, disability, turnover, retirement, rate or rates of investment income and compensation increases. Actuarial assumptions are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (compensation increases, payroll growth, inflation and investment return) consist of an underlying real rate of return plus an assumption for a long-term average rate of

inflation.

Actuarial Equivalent A single amount or series of amounts of equal actuarial value to another

single amount or series of amounts, computed on the basis of

appropriate actuarial assumptions.

Actuarial Cost Method A mathematical budgeting procedure for allocating the dollar amount of

the actuarial present value of the pension trust benefits between future normal cost and actuarial accrued liability. The actuarial cost method may

also be referred to as the actuarial funding method.

Actuarial Gain (Loss)

The difference in liabilities between actual experience and expected

experience during the period between two actuarial valuations is the gain

(loss) on the accrued liabilities.

Actuarial Present Value (APV) The amount of funds currently required to provide a payment or series of

payments in the future. The present value is determined by discounting future payments at predetermined rates of interest and probabilities of

payment.

Actuarial Valuation The actuarial valuation report determines, as of the actuarial valuation

date, the service cost, total pension liability, and related actuarial

present value of projected benefit payments for pensions.

Actuarial Valuation Date The date as of which an actuarial valuation is performed.

Actuarially Determined A calculated contribution into a defined benefit pension plan for the Contribution (ADC) or Annual reporting period, most often determined based on the funding policy of the plan. Typically the Actuarially Determined Contribution has a normal

cost payment and an amortization payment.



Amortization Method

The method used to determine the periodic amortization payment may be a level dollar amount, or a level percent of pay amount. The period will typically be expressed in years, and the method will either be "open" (meaning, reset each year) or "closed" (the number of years remaining will decline each year).

Amortization Payment

The amortization payment is the periodic payment required to pay off an interest-discounted amount with payments of interest and principal.

Cost-of-Living Adjustments

Postemployment benefit changes intended to adjust benefit payments for the effects of inflation.

Cost-Sharing Multiple-Employer Defined Benefit Pension Plan (cost-sharing pension plan) A multiple-employer defined benefit pension plan in which the pension obligations to the employees of more than one employer are pooled and pension plan assets can be used to pay the benefits of the employees of any employer that provides pensions through the pension plan.

Covered-Employee Payroll

The payroll of covered employees, which is typically only the pensionable pay and does not include pay above any pay cap.

Deferred Retirement Option Program (DROP)

A program that permits a plan member to elect a calculation of benefit payments based on service credits and salary, as applicable, as of the DROP entry date. The plan member continues to provide service to the employer and is paid for the service by the employer after the DROP entry date; however, the pensions that would have been paid to the plan member are credited to an individual member account within the defined benefit pension plan until the end of the DROP period. Other variations for DROP exist and will be more fully detailed in the plan provision section of the valuation report.

Deferred Inflows and Outflows

The deferred inflows and outflows of pension resources are amounts used under GASB Statement No. 68 in developing the annual pension expense. Deferred inflows and outflows arise with differences between expected and actual experiences; changes of assumptions. The portion of these amounts not included in pension expense should be included in the deferred inflows or outflows of resources.

Discount Rate

For GASB purposes, the discount rate is the single rate of return that results in the present value of all projected benefit payments to be equal to the sum of the funded and unfunded projected benefit payments, specifically:

- The benefit payments to be made while the pension plan's
 fiduciary net position is projected to be greater than the benefit
 payments that are projected to be made in the period; and
- 2. The present value of the benefit payments not in (1) above, discounted using the municipal bond rate.



Entry Age Actuarial Cost Method (EAN) The EAN is a funding method for allocating the costs of the plan between the normal cost and the accrued liability. The actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis (either level dollar or level percent of pay) over the earnings or service of the individual between entry age and assumed exit age(s). The portion of the actuarial present value allocated to a valuation year is the normal cost. The portion of this actuarial present value not provided for at a valuation date by the actuarial present value of future normal costs is the actuarial accrued liability. The sum of the accrued liability plus the present value of all future normal costs is the present value of all benefits.

Fiduciary Net Position

The fiduciary net position is the value of the assets of the trust.

GASB

The Governmental Accounting Standards Board is an organization that exists in order to promulgate accounting standards for governmental entities.

Long-Term Expected Rate of Return

The long-term rate of return is the expected return to be earned over the entire trust portfolio based on the asset allocation of the portfolio.

Money-Weighted Rate of Return

The money-weighted rate of return is a method of calculating the returns that adjusts for the changing amounts actually invested. For purposes of GASB Statement No. 67, money-weighted rate of return is calculated as the internal rate of return on pension plan investments, net of pension plan investment expense.

Multiple-Employer Defined Benefit Pension Plan A multiple-employer plan is a defined benefit pension plan that is used to provide pensions to the employees of more than one employer.

Municipal Bond Rate

The Municipal Bond Rate is the discount rate to be used for those benefit payments that occur after the assets of the trust have been depleted.

Net Pension Liability (NPL)

The NPL is the liability of employers and non-employer contribution entities to plan members for benefits provided through a defined benefit pension plan.

Non-Employer Contribution Entities Non-employer contribution entities are entities that make contributions to a pension plan that is used to provide pensions to the employees of other entities. For purposes of the GASB Accounting statement plan members are not considered non-employer contribution entities.

Normal Cost

The actuarial present value of the pension trust benefits allocated to the current year by the actuarial cost method.



Other Postemployment Benefits (OPEB)

All postemployment benefits other than retirement income (such as death benefits, life insurance, disability, and long-term care) that are provided separately from a pension plan, as well as postemployment healthcare benefits regardless of the manner in which they are provided. Other postemployment benefits do not include termination benefits.

Real Rate of Return

The real rate of return is the rate of return on an investment after adjustment to eliminate inflation.

Service Cost

The service cost is the portion of the actuarial present value of projected benefit payments that is attributed to a valuation year.

Total Pension Expense

The total pension expense is the sum of the following items that are recognized at the end of the employer's fiscal year:

- 1. Service Cost
- 2. Interest on the Total Pension Liability
- 3. Current-Period Benefit Changes
- 4. Employee Contributions (made negative for addition here)
- Projected Earnings on Plan Investments (made negative for addition here)
- 6. Pension Plan Administrative Expense
- 7. Other Changes in Plan Fiduciary Net Position
- 8. Recognition of Outflow (Inflow) of Resources due to Liabilities
- 9. Recognition of Outflow (Inflow) of Resources due to Assets

Total Pension Liability (TPL)

The TPL is the portion of the actuarial present value of projected benefit payments that is attributed to past periods of member service.

Unfunded Actuarial Accrued Liability (UAAL)

The UAAL is the difference between actuarial accrued liability and valuation assets.

Valuation Assets

The valuation assets are the assets used in determining the unfunded liability of the plan. For purposes of the GASB Statement No. 67, the valuation asset is equal to the market value of assets.





November 12, 2020

Mr. Duncan Baird Executive Director Arkansas Judicial Retirement System One Union National Plaza 124 West Capitol, Suite 400 Little Rock, Arkansas 72201

Dear Duncan:

Please find enclosed fifteen copies of the June 30, 2020 GASB Statement Nos. 67 and 68 Accounting and Financial Reporting for Pensions report of the Arkansas Judicial Retirement System.

Sincerely,

Mita D. Drazilov, ASA, FCA, MAAA

Mita Drazilor

MDD:sc Enclosures