

# Jonesboro Police 1050220

GASB Statement No. 68 Employer Reporting  
Accounting Schedules  
December 31, 2020



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April 30, 2021

Jonesboro Police Local Pension and Relief Fund  
Arkansas Local Police and Fire Retirement System

The accounting schedules submitted in this report are required under the Governmental Accounting Standards Board (GASB) Statement No. 68 “Employer Reporting for Pensions Plans.”

Our calculations for this report were prepared for the purpose of complying with the requirements of GASB Statement No. 68. These calculations have been made on a basis that is consistent with our understanding of this accounting standard.

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 No. 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. A calculation of the Jonesboro Police plan’s liability for purposes other than satisfying the requirements of GASB Statement No. 68 may produce significantly different results. This report was prepared at the request of the Board and is intended for use by the Retirement System and those designated or approved by the Board (including employers participating in LOPFI). This report may be provided to parties other than the System only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

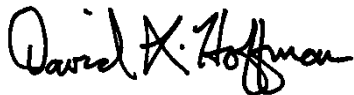
This report is based upon information, furnished to us by LOPFI, concerning retirement and ancillary benefits, active members, deferred vested members, retirees and beneficiaries, and financial data. If your understanding of this information is different than ours, please let us know and do not use or distribute this report until those differences have been resolved to your satisfaction. This information was checked for internal consistency, but it was not audited.

This report complements the actuarial valuation report that was provided to LOPFI and should be considered in conjunction with that report. Please see the actuarial valuation report as of December 31, 2020 for additional discussion 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 and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

To the best of our knowledge, the information contained in this report is accurate, and fairly represents the actuarial position of Jonesboro Police. All calculations have been made in conformity with generally accepted actuarial principles and practices as well as with the Actuarial Standards of Practice issued by the Actuarial Standards Board. Heidi G. Barry and Casey T. Ahlbrandt-Rains are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The signing individuals are independent of the plan sponsor.

Respectfully submitted,



David L. Hoffman



Heidi G. Barry, ASA, FCA, MAAA



Casey T. Ahlbrandt-Rains, ASA, MAAA

DLH/HGB/CTA:rmn



## SECTION A

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### EXECUTIVE SUMMARY

# Executive Summary as of December 31, 2020

	<b>2020</b>
Actuarial Valuation Date	December 31, 2020
Measurement Date of the Net Pension Liability	December 31, 2020

## Membership

Number of Local Plan	
- Retirees and Beneficiaries	32
- DROP Members	-
- Active Members	-
- Total	32
Covered Payroll	\$ 40,077

## Net Pension Liability

Total Pension Liability	\$ 11,394,098
Plan Fiduciary Net Position	10,183,355
Net Pension Liability	\$ 1,210,743
Plan Fiduciary Net Position as a Percentage of Total Pension Liability	89.37%
Net Pension Liability as a Percentage of Covered Valuation Payroll	3021.04%

## Development of the Single Discount Rate

Long-Term Expected Rate of Investment Return	7.00%
Long-Term Municipal Bond Rate*	2.00%
Last year ending December 31 in the 2021 to 2120 projection period for which projected benefit payments are fully funded	2120
Single Discount Rate End of Year	7.00%
Single Discount Rate Beginning of Year	7.00%

**Total Pension Expense/(Income)** \$ 512,231

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

	Deferred Outflows of Resources	Deferred Inflows of Resources
Difference between expected and actual experience	\$ -	\$ -
Changes in assumptions	-	-
Net difference between projected and actual earnings on pension plan investments	387,898	1,191,328
<b>Total</b>	<b>\$ 387,898</b>	<b>\$ 1,191,328</b>

*\*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 December 31, 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 state and local government employers (as well as certain non-employers) that contribute to a Defined Benefit (DB) pension plan administered through a trust or equivalent arrangement, Governmental Accounting Standards Board (GASB) Statement No. 68 establishes standards for pension accounting and financial reporting. Under GASB Statement No. 68, the employer must 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 is not included in this report if it is not actuarial in nature, such as the notes to the financial statements regarding accounting policies and investments. As a result, the retirement system and/or plan sponsor is responsible for preparing and disclosing the non-actuarial information needed to comply with these accounting standards.

## Financial Statements

GASB Statement No. 68 requires state and local government employers that contribute to DB pension plans to recognize the net pension liability and the pension expense on their financial statements, along with the related deferred outflows of resources and deferred inflows of resources. 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).

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 certain changes in the liability and investment experience.

## 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 of resources and inflows of resources related to pensions.

In addition, GASB Statement No. 68 requires the notes of the financial statements for the employers to include certain additional information, including (page numbers refer to page numbers from this report unless specified otherwise):

- A description of the types of benefits provided by the plan, as well as automatic or ad hoc COLAs (please see the Jonesboro Police December 31, 2020 Annual Actuarial Valuation report);
- The number and classes of employees covered by the benefit terms;
- For the current year, sources of changes in the net pension liability;

- Significant assumptions and methods used to calculate the total pension liability (please see the December 31, 2020 Annual Actuarial Valuation reports for the Jonesboro Police Plan and the Arkansas Local Police and Fire Retirement System);
- Inputs to the single discount rate;
- Certain information about mortality assumptions and the dates of experience studies;
- The date of the valuation used to determine the total pension liability;
- Information about changes of assumptions or other inputs and benefit terms;
- The basis for determining contributions to the plan, including a description of the plan’s funding policy, as well as member and employer contribution requirements (please see the December 31, 2020 Annual Actuarial Valuation reports for the Jonesboro Police Plan and the Arkansas Local Police and Fire Retirement System);
- The total pension liability, fiduciary net position, net pension liability, and the pension plan’s fiduciary net position as a percentage of the total pension liability; and
- 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.

## Required Supplementary Information

The financial statements of employers also include required supplementary information showing the 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
- Comparison of actual employer contributions to the actuarially determined contributions based on the plan’s funding.

These tables may be built prospectively as the information becomes available.

## Timing of the Valuation

An actuarial valuation to determine the total pension liability is required to be performed at least every two years. For the employer’s financial reporting purposes, the net pension liability and pension expense should be measured as of the employer’s “measurement date” which may not be earlier than the employer’s prior fiscal year-end date. 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 December 31, 2020 and a measurement date of December 31, 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 as of the measurement date (to the extent that the plan's projected fiduciary net position is not sufficient to pay benefits).

For the purpose of this valuation, the expected rate of return on pension plan investments is 7.00%, the municipal bond rate is 2.00% (based on the weekly rate closest to but not later than the measurement date of the Fidelity "20-Year Municipal GO AA Index"), and the resulting Single Discount Rate is 7.00%.

## Summary of Benefits

This report complements the actuarial valuation report prepared as of December 31, 2020, and information herein should be considered along with the information from that report, especially for additional discussions of the nature of actuarial calculations and for more information related to benefit provisions.

## Actuarial Cost Methods and Actuarial Assumptions

This report complements the actuarial valuation report prepared as of December 31, 2020, and information herein should be considered along with the information from that report, especially for additional discussions of the nature of actuarial calculations and for more information related to actuarial cost methods and actuarial assumptions.

The value of assets used for GASB Statement No. 68 reporting purposes was the market value of assets.

## **General Implications of Contribution Allocation Procedure or Funding Policy on Future Expected Plan Contributions and Funded Status**

Given the plan's contribution allocation procedure, if all actuarial assumptions are met (including the assumption of the plan earning 7.00% on the actuarial value of assets), it is expected that:

- (1) The unfunded liability will be paid off in approximately 8 years beginning January 1, 2021, which is the number of years remaining in the closed amortization schedule of the unfunded liability.
- (2) The funded status of the plan will increase gradually towards a 100% funded ratio.

This funding policy results in the projected plan fiduciary net position being sufficient to pay benefits for all future years and a GASB single discount rate of 7.00%. The projections in this report are strictly for the purpose of determining the GASB single discount rate and are different from a funding projection for the ongoing plan.

## **Limitations of Assets as a Percent of Total Pension Liability Measurements**

This report includes a measure of the plan fiduciary net position as a percent of total pension liability. Unless otherwise indicated, with regard to any such measurements presented in this report:

- (1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations.
- (2) The measurement is inappropriate for assessing the need for or amount of future employer contributions.

## **Limitation of Project Scope**

Actuarial standards do not require the actuary to evaluate the ability of the plan sponsor or other contributing entity to make required contributions to the plan when due. Such an evaluation was not within the scope of this project and is not within the actuary's domain of expertise. Consequently, the actuary performed no such evaluation.

## **SECTION B**

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### **FINANCIAL STATEMENTS**

**Statement of Pension Expense/(Income)  
Under GASB Statement No. 68  
Calendar Year Ended December 31, 2020**

**A. Expense/(Income)**

1. Service Cost	\$	-
2. Interest on the Total Pension Liability		745,650
3. Current-Period Benefit Changes		-
4. Employee Contributions (made negative for addition here)		(1,112)
5. Projected Earnings on Plan Investments (made negative for addition here)		(664,455)
6. Pension Plan Administrative Expense		15,335
7. Recognition of Outflow (Inflow) of Resources Due to Liabilities		624,423
8. Recognition of Outflow (Inflow) of Resources Due to Assets		(207,610)
<b>9. Total Pension Expense/(Income)</b>	<b>\$</b>	<b>512,231</b>

# Statement of Outflows and Inflows Arising from Current Reporting Period Calendar Year Ended December 31, 2020

## A. Outflows (Inflows) of Resources Due to Liabilities

1. Difference between expected and actual experience of the Total Pension Liability (gains) or losses	\$ 624,423
2. Assumption changes (gains) or losses	-
3. Recognition period for liabilities: average of the expected remaining service lives of all employees {in years}	1.0000
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	\$ 624,423
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	\$ 624,423
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	-
8. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses for assumption changes	-
9. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to liabilities	-

## B. Outflows (Inflows) of Resources Due to Assets

1. Net difference between projected and actual earnings on pension plan investments (gains) or losses	\$ (575,451)
2. Recognition period for assets {in years}	5.0000
3. Outflow (Inflow) of Resources to be recognized in the current pension expense due to assets	\$ (115,090)
4. Deferred Outflow (Inflow) of Resources to be recognized in future pension expenses due to assets	\$ (460,361)

# Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods Calendar Year Ended December 31, 2020

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

	<u>Outflows of Resources</u>	<u>Inflows of Resources</u>	<u>Net Outflows of Resources</u>
1. Due to liabilities	\$ 624,423	\$ -	\$ 624,423
2. Due to assets	229,211	436,821	(207,610)
<b>3. Total</b>	<b>\$ 853,634</b>	<b>\$ 436,821</b>	<b>\$ 416,813</b>

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

	<u>Outflows of Resources</u>	<u>Inflows of Resources</u>	<u>Net Outflows of Resources</u>
1. Differences between expected and actual experience	\$ 624,423	\$ -	\$ 624,423
2. Assumption changes	-	-	-
3. Net difference between projected and actual earnings on pension plan investments	229,211	436,821	(207,610)
<b>4. Total</b>	<b>\$ 853,634</b>	<b>\$ 436,821</b>	<b>\$ 416,813</b>

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

	<u>Deferred Outflows of Resources</u>	<u>Deferred Inflows of Resources</u>	<u>Net Deferred Outflows of Resources</u>
1. Differences between expected and actual experience	\$ -	\$ -	\$ -
2. Assumption changes	-	-	-
3. Net difference between projected and actual earnings on pension plan investments	387,898	1,191,328	(803,430)
<b>4. Total</b>	<b>\$ 387,898</b>	<b>\$ 1,191,328</b>	<b>\$ (803,430)</b>

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

<u>Year Ending December 31</u>	<u>Net Deferred Outflows of Resources</u>
2021	\$ (242,875)
2022	(125,757)
2023	(319,707)
2024	(115,091)
2025	-
Thereafter	-
<b>Total</b>	<b>\$ (803,430)</b>

## Statement of Outflows and Inflows Arising from the Current and Prior Reporting Periods Calendar Year Ended December 31, 2020

Year Established	Initial Amount	Initial Recognition Period	Current Year Recognition	Remaining Recognition	Remaining Recognition Period
<b>Deferred Outflow (Inflow) Due to Differences Between Expected and Actual Experience on Liabilities</b>					
2020	\$ 624,423	1.0000	\$ 624,423	\$ -	0.0000
<b>Total</b>			<b>\$ 624,423</b>	<b>\$ -</b>	
<b>Deferred Outflow (Inflow) Due to Assumption Changes</b>					
2020	\$ -	1.0000	\$ -	\$ -	0.0000
<b>Total</b>			<b>\$ -</b>	<b>\$ -</b>	
<b>Deferred Outflow (Inflow) Due to Differences Between Projected and Actual Earnings on Plan Investments</b>					
2016	\$ 176,315	5.0000	\$ 35,263	\$ -	0.0000
2017	(585,572)	5.0000	(117,114)	(117,116)	1.0000
2018	969,742	5.0000	193,948	387,898	2.0000
2019	(1,023,085)	5.0000	(204,617)	(613,851)	3.0000
2020	(575,451)	5.0000	(115,090)	(460,361)	4.0000
<b>Total</b>			<b>\$ (207,610)</b>	<b>\$ (803,430)</b>	

## Schedule of Changes in Net Pension Liability and Related Ratios Current Period Calendar Year Ended December 31, 2020

<b>A. Total Pension Liability</b>	
1. Service Cost	\$ -
2. Interest on the Total Pension Liability	745,650
3. Changes of benefit terms	-
4. Difference between expected and actual experience of the Total Pension Liability	624,423
5. Changes of assumptions	-
6. Benefit payments, including refunds of employee contributions	(1,256,244)
7. Other	-
8. Net change in Total Pension Liability	<u>\$ 113,829</u>
9. Total Pension Liability – Beginning	<u>11,280,269</u>
10. Total Pension Liability – Ending	<u><u>\$ 11,394,098</u></u>
<b>B. Plan Fiduciary Net Position</b>	
1. Contributions – Employer*	\$ 172,945
2. Contributions – Employee	1,112
3. Local plan administrative mergers	-
4. Net investment income	1,239,906
5. Benefit payments, including refunds of employee contributions	(1,256,244)
6. Pension Plan Administrative Expense	<u>(15,335)</u>
7. Net change in Plan Fiduciary Net Position	<u>\$ 142,384</u>
8. Plan Fiduciary Net Position – Beginning	<u>10,040,971</u>
9. Plan Fiduciary Net Position – Ending	<u><u>\$ 10,183,355</u></u>
<b>C. Net Pension Liability</b>	<u><u>\$ 1,210,743</u></u>
<b>D. Plan Fiduciary Net Position as a Percentage of the Total Pension Liability</b>	<b>89.37%</b>
<b>E. Covered Payroll</b>	<b>\$ 40,077</b>
<b>F. Net Pension Liability as a Percentage of Covered Payroll</b>	<b>3021.04%</b>

\* Includes assets reported as Premium Tax money.



## Sensitivity of Net Pension Liability/(Asset) to the Single Discount Rate Assumption

	Current Single Discount		
	1% Decrease	Rate Assumption	1% Increase
	6.00%	7.00%	8.00%
Total Pension Liability	\$ 12,458,234	\$ 11,394,098	\$ 10,486,923
Plan Fiduciary Net Position	10,183,355	10,183,355	10,183,355
Net Pension Liability/(Asset)	\$ 2,274,879	\$ 1,210,743	\$ 303,568

# Schedules of Required Supplementary Information

## Schedule of Changes in Net Pension Liability and Related Ratios

### Multiyear

Ultimately 10 Fiscal Years Will Be Displayed

Fiscal year ending December 31,	2020	2019	2018	2017	2016	2015	2014
<b>Total Pension Liability</b>							
Service Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,575	\$ 14,351
Interest on the Total Pension Liability	745,650	735,817	821,582	864,370	881,244	894,390	926,315
Benefit Changes	-	-	-	-	-	-	-
Difference between Expected and Actual Experience	624,423	544,368	(999,847)	254,457	(32,226)	115,651	(293,391)
Assumption Changes	-	-	-	535,836	-	146,440	51,555
Benefit Payments	(1,256,244)	(1,023,175)	(1,070,727)	(1,071,140)	(1,062,349)	(1,017,806)	(1,031,565)
<b>Net Change in Total Pension Liability</b>	<b>113,829</b>	<b>257,010</b>	<b>(1,248,992)</b>	<b>583,523</b>	<b>(213,331)</b>	<b>147,250</b>	<b>(332,735)</b>
<b>Total Pension Liability - Beginning</b>	<b>11,280,269</b>	<b>11,023,259</b>	<b>12,272,251</b>	<b>11,688,728</b>	<b>11,902,059</b>	<b>11,754,809</b>	<b>12,087,544</b>
<b>Total Pension Liability - Ending (a)</b>	<b>\$ 11,394,098</b>	<b>\$ 11,280,269</b>	<b>\$ 11,023,259</b>	<b>\$ 12,272,251</b>	<b>\$ 11,688,728</b>	<b>\$ 11,902,059</b>	<b>\$ 11,754,809</b>
<b>Plan Fiduciary Net Position</b>							
Employer Contributions*	\$ 172,945	\$ 279,789	\$ 281,256	\$ 278,199	\$ 226,257	\$ 201,623	\$ 70,092
Employee Contributions	1,112	1,458	1,430	1,446	1,379	2,376	2,813
Local Plan Administrative Mergers	-	-	-	-	-	-	-
Pension Plan Net Investment Income	1,239,906	1,637,780	(280,694)	1,309,536	568,010	18,960	763,137
Benefit Payments	(1,256,244)	(1,023,175)	(1,070,727)	(1,071,140)	(1,062,349)	(1,017,806)	(1,031,565)
Pension Plan Administrative Expenses	(15,335)	(14,404)	(18,610)	(16,789)	(18,472)	(24,144)	(18,134)
<b>Net Change in Plan Fiduciary Net Position</b>	<b>142,384</b>	<b>881,448</b>	<b>(1,087,345)</b>	<b>501,252</b>	<b>(285,175)</b>	<b>(818,991)</b>	<b>(213,657)</b>
<b>Plan Fiduciary Net Position - Beginning</b>	<b>10,040,971</b>	<b>9,159,523</b>	<b>10,246,868</b>	<b>9,745,616</b>	<b>10,030,791</b>	<b>10,849,782</b>	<b>11,063,439</b>
<b>Plan Fiduciary Net Position - Ending (b)</b>	<b>\$ 10,183,355</b>	<b>\$ 10,040,971</b>	<b>\$ 9,159,523</b>	<b>\$ 10,246,868</b>	<b>\$ 9,745,616</b>	<b>\$ 10,030,791</b>	<b>\$ 10,849,782</b>
<b>Net Pension Liability - Ending (a) - (b)</b>	<b>1,210,743</b>	<b>1,239,298</b>	<b>1,863,736</b>	<b>2,025,383</b>	<b>1,943,112</b>	<b>1,871,268</b>	<b>905,027</b>
<b>Plan Fiduciary Net Position as a Percentage of Total Pension Liability</b>	<b>89.37 %</b>	<b>89.01 %</b>	<b>83.09 %</b>	<b>83.50 %</b>	<b>83.38 %</b>	<b>84.28 %</b>	<b>92.30 %</b>
<b>Covered Payroll<sup>^</sup></b>	<b>\$ 40,077</b>	<b>\$ 48,610</b>	<b>\$ 47,654</b>	<b>\$ 48,198</b>	<b>\$ 45,969</b>	<b>\$ 45,701</b>	<b>\$ 46,876</b>
<b>Net Pension Liability as a Percentage of Covered Payroll</b>	<b>3,021.04 %</b>	<b>2,549.47 %</b>	<b>3,911.01 %</b>	<b>4,202.21 %</b>	<b>4,227.01 %</b>	<b>4,094.59 %</b>	<b>1,930.68 %</b>

\* Includes assets reported as Premium Tax money.

<sup>^</sup> Beginning in 2016, Covered Payroll is the amount for which contributions were based. Prior to 2016, Covered Payroll was based on active valuation payroll.



## Schedule of the Net Pension Liability Multiyear

Ultimately 10 Fiscal Years Will Be Displayed

<u>FY Ending December 31,</u>	<u>Total Pension Liability</u>	<u>Plan Net Position</u>	<u>Net Pension Liability</u>	<u>Plan Net Position as a % of Total Pension Liability</u>	<u>Covered Payroll<sup>^</sup></u>	<u>Net Pension Liability as a % of Covered Payroll</u>
2014	\$ 11,754,809	\$ 10,849,782	\$ 905,027	92.30%	\$ 46,876	1,930.68 %
2015	11,902,059	10,030,791	1,871,268	84.28%	45,701	4,094.59 %
2016	11,688,728	9,745,616	1,943,112	83.38%	45,969	4,227.01 %
2017	12,272,251	10,246,868	2,025,383	83.50%	48,198	4,202.21 %
2018	11,023,259	9,159,523	1,863,736	83.09%	47,654	3,911.01 %
2019	11,280,269	10,040,971	1,239,298	89.01%	48,610	2,549.47 %
2020	11,394,098	10,183,355	1,210,743	89.37%	40,077	3,021.04 %

<sup>^</sup> Beginning in 2016, Covered Payroll is the amount for which contributions were based. Prior to 2016, Covered Payroll was based on active valuation payroll.

## Schedule of Contributions Multiyear

Ultimately 10 Fiscal Years Will Be Displayed

<u>FY Ending December 31,</u>	<u>Actuarially Determined Contribution</u>	<u>Actual Contribution</u>	<u>Contribution Deficiency (Excess)</u>	<u>Covered Payroll</u>	<u>Actual Contribution as a % of Covered Payroll</u>
2014	\$ 9,432	\$ 9,432	\$ -	\$ 46,876	20.12 %
2015	141,407	141,407	-	45,701	309.42 %
2016	150,825	150,825	-	45,969	328.10 %
2017	187,603	187,603	-	48,198	389.23 %
2018	180,876	180,876	-	47,654	379.56 %
2019	187,656	187,897	(241)	48,610	386.54 %
2020	82,500	82,500	-	40,077	205.85 %



## Notes to Schedule of Contributions

<b>Valuation Date:</b>	December 31, 2018
Notes	Actuarially determined contribution rates are calculated as of December 31 <sup>st</sup> of each year, which is 12 months prior to the beginning of the fiscal year in which contributions are reported.

### Methods and Assumptions Used to Determine Contribution Rates for Fiscal Year 2020:

Actuarial Cost Method	Individual Entry-Age Normal
Amortization Method	Closed Amortization Period based on projected future payroll
Remaining Amortization Period	9 years beginning January 1, 2020
Asset Valuation Method	5-Year smoothed market; 20% corridor (for funding purposes)
Price Inflation	2.50%
Salary Increases	3.25%, which is the portion of the individual pay increase assumptions attributable to wage inflation
Investment Rate of Return	7.50%
Retirement Age	Experience-based table of rates that are specific to the type of eligibility condition. Last updated for the 2017 valuation pursuant to an experience study of the period 2012 – 2016.
Mortality	RP-2014 Healthy Annuitant, Disabled Retiree and Employee mortality tables for males and females. The tables applied credibility adjustments of 135% for males and 125% for females and were adjusted for fully generational mortality improvements using Scale MP-2016.

### Other Information:

Notes	There were no benefit changes during the year.
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A detailed description of the actuarial assumptions and methods used to determine the Fiscal Year 2020 employer contribution rate can be found in the December 31, 2018 Arkansas Local Police and Fire Retirement System compiled annual actuarial valuation report.

## **SECTION C**

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### **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 plan’s projected fiduciary net position is not sufficient to pay benefits).

For the purpose of this valuation, the expected rate of return on pension plan investments is 7.00%; the municipal bond rate is 2.00%; and the resulting SDR is 7.00%.

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).

Expected Contributions are developed based on the following:

- Member Contributions for current members;
- Normal Cost contributions for current members; and
- Unfunded Liability contributions for current and future members.

Employers participating in LOPFI are required by Arkansas code to make the contributions developed by the Retirement System actuary based on assumptions and policies established by the Retirement System Board of Trustees (the actuarially determined contribution). Our understanding is that the Retirement System has always collected the actuarially determined contribution from participating employers. Based on this, we assume that in the future LOPFI will receive the actuarially determined contribution from each employer and show as the employer contributions in our cash flow projections the projected actuarially determined contribution.

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 SDR. 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 Beginning January 1, 2021 (Years 1-50)

Year	Payroll for Current Local Employees	Contributions from Current Employees	Normal Cost Contributions	UAL Contributions	Total Contributions
0	\$ 40,077				
1	-	\$ -	\$ -	\$ 165,900	\$ 165,900
2	-	-	-	221,304	221,304
3	-	-	-	184,232	184,232
4	-	-	-	189,763	189,763
5	-	-	-	195,457	195,457
6	-	-	-	201,332	201,332
7	-	-	-	207,379	207,379
8	-	-	-	213,590	213,590
9	-	-	-	-	-
10	-	-	-	-	-
11	-	-	-	-	-
12	-	-	-	-	-
13	-	-	-	-	-
14	-	-	-	-	-
15	-	-	-	-	-
16	-	-	-	-	-
17	-	-	-	-	-
18	-	-	-	-	-
19	-	-	-	-	-
20	-	-	-	-	-
21	-	-	-	-	-
22	-	-	-	-	-
23	-	-	-	-	-
24	-	-	-	-	-
25	-	-	-	-	-
26	-	-	-	-	-
27	-	-	-	-	-
28	-	-	-	-	-
29	-	-	-	-	-
30	-	-	-	-	-
31	-	-	-	-	-
32	-	-	-	-	-
33	-	-	-	-	-
34	-	-	-	-	-
35	-	-	-	-	-
36	-	-	-	-	-
37	-	-	-	-	-
38	-	-	-	-	-
39	-	-	-	-	-
40	-	-	-	-	-
41	-	-	-	-	-
42	-	-	-	-	-
43	-	-	-	-	-
44	-	-	-	-	-
45	-	-	-	-	-
46	-	-	-	-	-
47	-	-	-	-	-
48	-	-	-	-	-
49	-	-	-	-	-
50	-	-	-	-	-

# Single Discount Rate Development

## Projection of Contributions Beginning January 1, 2021 (Years 51-100)

Year	Payroll for Current Local Employees	Contributions from Current Employees	Normal Cost Contributions	UAL Contributions	Total Contributions
51	\$ -	\$ -	\$ -	\$ -	\$ -
52	-	-	-	-	-
53	-	-	-	-	-
54	-	-	-	-	-
55	-	-	-	-	-
56	-	-	-	-	-
57	-	-	-	-	-
58	-	-	-	-	-
59	-	-	-	-	-
60	-	-	-	-	-
61	-	-	-	-	-
62	-	-	-	-	-
63	-	-	-	-	-
64	-	-	-	-	-
65	-	-	-	-	-
66	-	-	-	-	-
67	-	-	-	-	-
68	-	-	-	-	-
69	-	-	-	-	-
70	-	-	-	-	-
71	-	-	-	-	-
72	-	-	-	-	-
73	-	-	-	-	-
74	-	-	-	-	-
75	-	-	-	-	-
76	-	-	-	-	-
77	-	-	-	-	-
78	-	-	-	-	-
79	-	-	-	-	-
80	-	-	-	-	-
81	-	-	-	-	-
82	-	-	-	-	-
83	-	-	-	-	-
84	-	-	-	-	-
85	-	-	-	-	-
86	-	-	-	-	-
87	-	-	-	-	-
88	-	-	-	-	-
89	-	-	-	-	-
90	-	-	-	-	-
91	-	-	-	-	-
92	-	-	-	-	-
93	-	-	-	-	-
94	-	-	-	-	-
95	-	-	-	-	-
96	-	-	-	-	-
97	-	-	-	-	-
98	-	-	-	-	-
99	-	-	-	-	-
100	-	-	-	-	-



# Single Discount Rate Development

## Projection of Plan Fiduciary Net Position

### Beginning January 1, 2021

#### (Years 1-50)

Year	Projected Beginning Plan Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Investment Earnings at 7.00%	Projected Ending Plan Net Position
	(a)	(b)	(c)	(d)	(e)=(a)+(b)-(c)+(d)
1	\$ 10,183,355	\$ 165,900	\$ 1,030,696	\$ 683,079	\$ 10,001,638
2	10,001,638	221,304	1,011,340	672,931	9,884,533
3	9,884,533	184,232	1,010,113	663,500	9,722,152
4	9,722,152	189,763	1,006,224	652,458	9,558,148
5	9,558,148	195,457	999,726	641,397	9,395,276
6	9,395,276	201,332	990,715	630,508	9,236,400
7	9,236,400	207,379	979,306	619,988	9,084,461
8	9,084,461	213,590	965,614	610,037	8,942,474
9	8,942,474	-	949,777	593,293	8,585,990
10	8,585,990	-	931,950	568,953	8,222,993
11	8,222,993	-	912,305	544,219	7,854,906
12	7,854,906	-	891,024	519,185	7,483,067
13	7,483,067	-	868,243	493,940	7,108,765
14	7,108,765	-	844,036	468,572	6,733,300
15	6,733,300	-	818,404	443,171	6,358,067
16	6,358,067	-	791,294	417,838	5,984,611
17	5,984,611	-	762,651	392,681	5,614,642
18	5,614,642	-	732,462	367,822	5,250,002
19	5,250,002	-	700,733	343,389	4,892,659
20	4,892,659	-	667,521	319,518	4,544,656
21	4,544,656	-	632,981	296,346	4,208,021
22	4,208,021	-	597,357	274,008	3,884,671
23	3,884,671	-	561,003	252,624	3,576,292
24	3,576,292	-	524,324	232,300	3,284,268
25	3,284,268	-	487,732	213,117	3,009,653
26	3,009,653	-	451,639	195,136	2,753,149
27	2,753,149	-	416,493	178,390	2,515,046
28	2,515,046	-	382,703	162,885	2,295,228
29	2,295,228	-	350,596	148,603	2,093,234
30	2,093,234	-	320,432	135,501	1,908,303
31	1,908,303	-	292,393	123,521	1,739,430
32	1,739,430	-	266,610	112,587	1,585,407
33	1,585,407	-	243,137	102,613	1,444,882
34	1,444,882	-	221,922	93,506	1,316,466
35	1,316,466	-	202,803	85,175	1,198,838
36	1,198,838	-	185,571	77,533	1,090,800
37	1,090,800	-	170,002	70,507	991,304
38	991,304	-	155,893	64,027	899,439
39	899,439	-	143,071	58,038	814,406
40	814,406	-	131,358	52,489	735,536
41	735,536	-	120,593	47,338	662,281
42	662,281	-	110,662	42,552	594,172
43	594,172	-	101,476	38,100	530,796
44	530,796	-	92,956	33,957	471,797
45	471,797	-	85,019	30,100	416,878
46	416,878	-	77,561	26,513	365,830
47	365,830	-	70,488	23,183	318,525
48	318,525	-	63,742	20,104	274,887
49	274,887	-	57,291	17,271	234,866
50	234,866	-	51,123	14,682	198,425



# Single Discount Rate Development Projection of Plan Fiduciary Net Position Beginning January 1, 2021 (Years 51-100)

Year	Projected Beginning Plan Net Position (a)	Projected Total Contributions (b)	Projected Benefit Payments (c)	Projected Investment Earnings at 7.00% (d)	Projected Ending Plan Net Position (e)=(a)+(b)-(c)+(d)
51	\$ 198,425	\$ -	\$ 45,242	\$ 12,333	\$ 165,517
52	165,517	-	39,662	10,221	136,076
53	136,076	-	34,391	8,342	110,028
54	110,028	-	29,408	6,690	87,310
55	87,310	-	24,717	5,261	67,854
56	67,854	-	20,363	4,049	51,540
57	51,540	-	16,402	3,043	38,181
58	38,181	-	12,889	2,229	27,521
59	27,521	-	9,854	1,587	19,255
60	19,255	-	7,306	1,096	13,045
61	13,045	-	5,239	733	8,538
62	8,538	-	3,627	473	5,384
63	5,384	-	2,417	294	3,260
64	3,260	-	1,544	175	1,890
65	1,890	-	943	100	1,047
66	1,047	-	549	54	552
67	552	-	304	28	276
68	276	-	159	14	130
69	130	-	79	6	58
70	58	-	36	3	25
71	25	-	16	1	10
72	10	-	7	-	4
73	4	-	3	-	2
74	2	-	1	-	1
75	1	-	-	-	-
76	-	-	-	-	-
77	-	-	-	-	-
78	-	-	-	-	-
79	-	-	-	-	-
80	-	-	-	-	-
81	-	-	-	-	-
82	-	-	-	-	-
83	-	-	-	-	-
84	-	-	-	-	-
85	-	-	-	-	-
86	-	-	-	-	-
87	-	-	-	-	-
88	-	-	-	-	-
89	-	-	-	-	-
90	-	-	-	-	-
91	-	-	-	-	-
92	-	-	-	-	-
93	-	-	-	-	-
94	-	-	-	-	-
95	-	-	-	-	-
96	-	-	-	-	-
97	-	-	-	-	-
98	-	-	-	-	-
99	-	-	-	-	-
100	-	-	-	-	-

# Single Discount Rate Development Present Values of Projected Benefits Beginning January 1, 2021 (Years 1-50)

Year	Projected	Projected	Funded	Unfunded	Present Value of	Present Value of	Present Value of
	Beginning Plan	Benefit	Portion of	Portion of	Funded Benefit	Unfunded Benefit	Benefit
	Net Position	Payments	Benefit	Benefit	Payments using	Payments using	Payments using Single
(a)	(b)	(c)	(d)	(e)	Expected Return	Municipal Bond	Discount
					Rate (v)	Rate (vf)	Rate (sdr)
					(f)=(d)*v^(a)-.5	(g)=(e)*vf^(a)-.5	(h)=(c)/(1+sdr)^(a)-.5
1	\$ 10,183,355	\$1,030,696	\$1,030,696	\$ -	\$ 996,411	\$ -	\$ 996,411
2	10,001,638	1,011,340	1,011,340	-	913,738	-	913,738
3	9,884,533	1,010,113	1,010,113	-	852,924	-	852,924
4	9,722,152	1,006,224	1,006,224	-	794,057	-	794,057
5	9,558,148	999,726	999,726	-	737,317	-	737,317
6	9,395,276	990,715	990,715	-	682,870	-	682,870
7	9,236,400	979,306	979,306	-	630,847	-	630,847
8	9,084,461	965,614	965,614	-	581,333	-	581,333
9	8,942,474	949,777	949,777	-	534,392	-	534,392
10	8,585,990	931,950	931,950	-	490,057	-	490,057
11	8,222,993	912,305	912,305	-	448,343	-	448,343
12	7,854,906	891,024	891,024	-	409,238	-	409,238
13	7,483,067	868,243	868,243	-	372,687	-	372,687
14	7,108,765	844,036	844,036	-	338,595	-	338,595
15	6,733,300	818,404	818,404	-	306,834	-	306,834
16	6,358,067	791,294	791,294	-	277,261	-	277,261
17	5,984,611	762,651	762,651	-	249,743	-	249,743
18	5,614,642	732,462	732,462	-	224,166	-	224,166
19	5,250,002	700,733	700,733	-	200,425	-	200,425
20	4,892,659	667,521	667,521	-	178,435	-	178,435
21	4,544,656	632,981	632,981	-	158,133	-	158,133
22	4,208,021	597,357	597,357	-	139,471	-	139,471
23	3,884,671	561,003	561,003	-	122,414	-	122,414
24	3,576,292	524,324	524,324	-	106,925	-	106,925
25	3,284,268	487,732	487,732	-	92,956	-	92,956
26	3,009,653	451,639	451,639	-	80,446	-	80,446
27	2,753,149	416,493	416,493	-	69,333	-	69,333
28	2,515,046	382,703	382,703	-	59,540	-	59,540
29	2,295,228	350,596	350,596	-	50,976	-	50,976
30	2,093,234	320,432	320,432	-	43,543	-	43,543
31	1,908,303	292,393	292,393	-	37,133	-	37,133
32	1,739,430	266,610	266,610	-	31,644	-	31,644
33	1,585,407	243,137	243,137	-	26,970	-	26,970
34	1,444,882	221,922	221,922	-	23,006	-	23,006
35	1,316,466	202,803	202,803	-	19,649	-	19,649
36	1,198,838	185,571	185,571	-	16,803	-	16,803
37	1,090,800	170,002	170,002	-	14,386	-	14,386
38	991,304	155,893	155,893	-	12,329	-	12,329
39	899,439	143,071	143,071	-	10,575	-	10,575
40	814,406	131,358	131,358	-	9,074	-	9,074
41	735,536	120,593	120,593	-	7,785	-	7,785
42	662,281	110,662	110,662	-	6,677	-	6,677
43	594,172	101,476	101,476	-	5,722	-	5,722
44	530,796	92,956	92,956	-	4,899	-	4,899
45	471,797	85,019	85,019	-	4,187	-	4,187
46	416,878	77,561	77,561	-	3,570	-	3,570
47	365,830	70,488	70,488	-	3,032	-	3,032
48	318,525	63,742	63,742	-	2,563	-	2,563
49	274,887	57,291	57,291	-	2,153	-	2,153
50	234,866	51,123	51,123	-	1,795	-	1,795



# Single Discount Rate Development

## Present Values of Projected Benefits

### Beginning January 1, 2021

#### (Years 51-100)

Year	Projected	Projected	Funded	Unfunded	Present Value of	Present Value of	Present Value of
	Beginning Plan	Benefit	Portion of	Portion of	Funded Benefit	Unfunded	Benefit
	Net Position	Payments	Benefit	Benefit	Payments using	Benefit Payments	Payments using Single
(a)	(b)	(c)	(d)	(e)	Expected Return	using Municipal	Discount
			Payments	Payments	Rate (v)	Bond Rate (vf)	Rate (sdr)
					(f)=(d)*v^((a)-.5)	(g)=(e)*vf ^((a)-.5)	(h)=(c)/(1+sdr)^(a-.5)
51	\$ 198,425	\$ 45,242	\$ 45,242	\$ -	\$ 1,485	\$ -	\$ 1,485
52	165,517	39,662	39,662	-	1,216	-	1,216
53	136,076	34,391	34,391	-	986	-	986
54	110,028	29,408	29,408	-	788	-	788
55	87,310	24,717	24,717	-	619	-	619
56	67,854	20,363	20,363	-	476	-	476
57	51,540	16,402	16,402	-	359	-	359
58	38,181	12,889	12,889	-	263	-	263
59	27,521	9,854	9,854	-	188	-	188
60	19,255	7,306	7,306	-	130	-	130
61	13,045	5,239	5,239	-	87	-	87
62	8,538	3,627	3,627	-	57	-	57
63	5,384	2,417	2,417	-	35	-	35
64	3,260	1,544	1,544	-	21	-	21
65	1,890	943	943	-	12	-	12
66	1,047	549	549	-	7	-	7
67	552	304	304	-	3	-	3
68	276	159	159	-	2	-	2
69	130	79	79	-	1	-	1
70	58	36	36	-	-	-	-
71	25	16	16	-	-	-	-
72	10	7	7	-	-	-	-
73	4	3	3	-	-	-	-
74	2	1	1	-	-	-	-
75	1	-	-	-	-	-	-
76	-	-	-	-	-	-	-
77	-	-	-	-	-	-	-
78	-	-	-	-	-	-	-
79	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-
81	-	-	-	-	-	-	-
82	-	-	-	-	-	-	-
83	-	-	-	-	-	-	-
84	-	-	-	-	-	-	-
85	-	-	-	-	-	-	-
86	-	-	-	-	-	-	-
87	-	-	-	-	-	-	-
88	-	-	-	-	-	-	-
89	-	-	-	-	-	-	-
90	-	-	-	-	-	-	-
91	-	-	-	-	-	-	-
92	-	-	-	-	-	-	-
93	-	-	-	-	-	-	-
94	-	-	-	-	-	-	-
95	-	-	-	-	-	-	-
96	-	-	-	-	-	-	-
97	-	-	-	-	-	-	-
98	-	-	-	-	-	-	-
99	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-
				<b>Totals</b>	\$ 11,394,098	\$ -	\$ 11,394,098



## **SECTION D**

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### **GLOSSARY OF TERMS**

## Glossary of Terms

<b><i>Actuarial Accrued Liability (AAL)</i></b>	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."
<b><i>Actuarial Assumptions</i></b>	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.
<b><i>Accrued Service</i></b>	Service credited under the system which was rendered before the date of the actuarial valuation.
<b><i>Actuarial Equivalent</i></b>	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.
<b><i>Actuarial Cost Method</i></b>	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.
<b><i>Actuarial Gain (Loss)</i></b>	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.
<b><i>Actuarial Present Value (APV)</i></b>	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.
<b><i>Actuarial Valuation</i></b>	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.
<b><i>Actuarial Valuation Date</i></b>	The date as of which an actuarial valuation is performed.
<b><i>Actuarially Determined Contribution (ADC) or Annual Required Contribution (ARC)</i></b>	A calculated contribution into a defined benefit pension plan for the 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.

## Glossary of Terms (Continued)

<b><i>Amortization Payment</i></b>	The amortization payment is the periodic payment required to pay off an interest-discounted amount with payments of interest and principal.
<b><i>Amortization Method</i></b>	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).
<b><i>Cost-of-Living Adjustments</i></b>	Postemployment benefit changes intended to adjust benefit payments for the effects of inflation.
<b><i>Covered Valuation Payroll</i></b>	The earnings of covered employees for the year ended on the valuation date, which is typically only the pensionable pay and does not include pay above any pay cap. It is not necessarily the same as payroll actually paid because it excludes all pay for people who exited during the year.
<b><i>Deferred Inflows and Outflows</i></b>	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.
<b><i>Discount Rate</i></b>	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: <ol style="list-style-type: none"><li>1. The benefit payments to be made while the pension plans’ fiduciary net position is projected to be greater than the benefit payments that are projected to be made in the period; and</li><li>2. The present value of the benefit payments not in (1) above, discounted using the municipal bond rate.</li></ol>
<b><i>Entry Age Actuarial Cost Method (EAN)</i></b>	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.

## Glossary of Terms (Continued)

<b><i>GASB</i></b>	The Governmental Accounting Standards Board is an organization that exists in order to promulgate accounting standards for governmental entities.
<b><i>Fiduciary Net Position</i></b>	The fiduciary net position is the value of the assets of the trust.
<b><i>Long-Term Expected Rate of Return</i></b>	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.
<b><i>Money-Weighted Rate of Return</i></b>	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. 68, money-weighted rate of return is calculated as the internal rate of return on pension plan investments, net of pension plan investment expense.
<b><i>Multiple-Employer Defined Benefit Pension Plan</i></b>	A multiple-employer plan is a defined benefit pension plan that is used to provide pensions to the employees of more than one employer.
<b><i>Municipal Bond Rate</i></b>	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.
<b><i>Net Pension Liability (NPL)</i></b>	The NPL is the liability of employers and non-employer contribution entities to plan members for benefits provided through a defined benefit pension plan.
<b><i>Non-Employer Contribution Entities</i></b>	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.
<b><i>Normal Cost</i></b>	The actuarial present value of the pension trust benefits allocated to the current year by the actuarial cost method.
<b><i>Other Postemployment Benefits (OPEB)</i></b>	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 post-employment benefits do not include termination benefits.
<b><i>Real Rate of Return</i></b>	The real rate of return is the rate of return on an investment after adjustment to eliminate inflation.
<b><i>Service Cost</i></b>	The service cost is the portion of the actuarial present value of projected benefit payments that is attributed to a valuation year.



## Glossary of Terms (Concluded)

### ***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);
5. 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;  
and
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. 68, the valuation asset is equal to the market value of assets.