

GASB Statements No. 67 and 68
Report for Fiscal Year 2022

Attleboro Retirement System



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November 28, 2022

Attleboro Retirement Board
77 Park Street
Attleboro, MA 02703

To the Attleboro Retirement Board:

For the purpose of satisfying the requirements of the Government Accounting Standards Board (GASB) Statement No. 68, Stone Consulting, Inc. has prepared a set of illustrative tables and other Required Supplementary Information (RSI) based on the January 1, 2022 actuarial valuation of the Attleboro Retirement System performed by Stone Consulting, Inc.

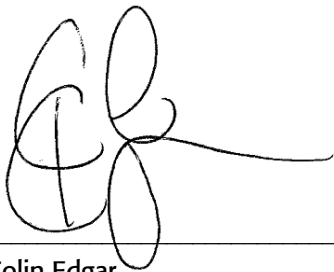
The valuation and this report were prepared using generally accepted actuarial principles and practices and meet the parameters set by the Governmental Accounting Standards Board (GASB).

To the best of our knowledge, this report is complete and accurate, and the assumptions used represent our best estimate of anticipated experience of the system. Stone Consulting, Inc. is completely independent of the City of Attleboro and the Attleboro Retirement System. This includes any of its officers and key personnel. Neither we or anyone else closely associated with us has any relationship with the City of Attleboro or the Attleboro Retirement System that would impair our independence, other than this or related assignments.

We are pleased to present these exhibits. If the Board has any questions on the content of this report, we would be glad to respond. Please note that this report is meant to be used in its entirety. Use of excerpts of this report may result in a misleading or inaccurate understanding of the results.

The undersigned is a consultant for Stone Consulting, Inc. Colin Edgar is a member of the American Academy of Actuaries, and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,
STONE CONSULTING, INC.
Actuaries for the Plan



Colin Edgar
Member, American Academy of Actuaries

Summary of Results

This report has been prepared for the purpose of satisfying the requirements of GASB Statement No. 68. For GASB 68 the results are as of a valuation date of January 1, 2022, a measurement date of December 31, 2021 and a reporting date of June 30, 2022.

The methods, assumptions, and plan provisions used to prepare these exhibits are consistent with those used in the funding valuation, and are outlined in the January 1, 2022 funding valuation report unless otherwise stated in this report.

Highlights of the results for the Attleboro Retirement System as of December 31, 2021 are as follows:

Total Pension Liability (TPL)	\$ 279,091,102
Plan Fiduciary Net Position (FNP)	<u>216,071,895</u>
System's Net Pension Liability (NPL)	\$ 63,019,208
Plan FNP as a percentage of the TPL	77.4%
Covered Payroll	\$ 40,221,247
Plan NPL as a percentage of Covered Payroll	156.7%
Pension Expense	\$ 3,224,187

NOTE: Totals in this report may not sum due to rounding

The TPL, FNP, and NPL are all developed and discussed on the following two pages, followed by the pension expense and deferrals.

Distribution of the Member Population

As of January 1, 2022, the following employees were covered by the benefits terms:

Inactive employees or beneficiaries currently receiving benefits	485
Inactive employees entitled to a return of contributions	157
Active employees	<u>712</u>
TOTAL	1,354

Changes to the Net Pension Liability

	Total Pension Liability (a)	Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at beginning of Measurement Period (01/01/2021)	\$ 264,292,667	\$ 190,176,480	\$ 74,116,187
Changes for the Year:			
Service Cost	5,923,524		5,923,524
Interest	19,025,747		19,025,747
Change in benefit terms	0		0
Differences between expected and actual experience	(918,507)		(918,507)
Change in assumptions	6,351,858		6,351,858
Contributions - employer		8,846,255	(8,846,255)
Contributions - employee		3,919,408	(3,919,408)
Net investment income		29,024,621	(29,024,621)
Benefit payments, including refunds of employee contributions	(15,584,186)	(15,584,186)	0
Administrative expense		(310,683)	310,683
Other changes		0	0
Net Changes	<u>14,798,435</u>	<u>25,895,414</u>	<u>(11,096,979)</u>
Balances at end of Measurement Period (12/31/2021)	\$ 279,091,102	\$ 216,071,895	\$ 63,019,208

*Update procedures were used to roll the Total Pension Liability forward from the valuation date (01/01/2022) to the measurement date (12/31/2021). [GASB 68, Paragraph 80 c.]

CHANGES IN METHODS, ASSUMPTIONS, AND PLAN PROVISIONS

The January 1, 2022 valuation included an update of the mortality assumption, as well as a reduction of the discount rate from 7.25% to 7.00%. the effect of these assumption changes increased the net Pension Liability by \$6.4 million, shown above as "Change in assumptions."

Projection of the Net Pension Liability

TOTAL PENSION LIABILITY (TPL)

The Total Pension Liability at the beginning of the measurement period (01/01/2021) is equal to the TPL from the end of the previous measurement period. The TPL is rolled forward through each measurement period by:

- Adding the Service Cost,
- Subtracting benefits paid,
- Applying interest (as calculated on page 6), and
- Recognizing any changes from new valuation results.

The Actuarial Accrued Liability (AAL), calculated as of the valuation date, is compared to the projected TPL. The difference between the two figures is measured as of the measurement date, and allocated to the following categories:

- Changes in assumptions
- Changes of plan provisions
- The remainder of the difference is allocated to "Differences between actual and expected experience"

All of these changes are recognized immediately in the TPL. Their treatment in the pension expense is discussed on the following page. Note that the TPL shown includes a 1/1/2022 liability of \$1,583,835 for net 3(8)(c) payments, calculated by assuming that every dollar of 3(8)(c) net benefit generates the same amount of liability as a dollar of the total retirement benefit, and rolled forward along with the rest of the TPL. This method differs from the funding valuation, where net 3(8)(c) payments are funded on a pay-as-you-go basis and no explicit liability is calculated.

PLAN FIDUCIARY NET POSITION (FNP) AND NET PENSION LIABILITY (NPL)

GASB Statement No. 68, Paragraph 59 requires that the fair value of assets be used for the Fiduciary Net Position. For the fair value of assets we used the market value of assets adjusted by payables and receivables.

The Net Pension Liability (NPL) is the portion of the TPL not covered by the FNP. This amount is presented as a percentage of covered payroll. The NPL ratio for the Attleboro Retirement System is 156.7% of covered pay. In this report, covered pay is reported as described in GASB Statement No. 82 – pensionable payroll for the measurement period.

PENSION EXPENSE AND NET DEFERRALS

For the Pension Expense, gain and losses are recognized over a period of multiple years, with a portion being recognized immediately and the remainder being added to deferred inflows and outflows:

- Asset gains and losses are recognized over a five-year period [GASB 68, Paragraph 71b]
- Experience and Assumption changes are recognized over the average future service of the current members [GASB 68, Paragraph 71a]. The current members include retirees and inactives who have no future service.
- Plan provision changes are recognized immediately

Some inflows/outflows which originated in prior measurement periods will continue to be recognized this period. The total amount to be recognized this period is part of the pension expense; the remainder is included in the deferrals. Both are shown on the following page, and are calculated in greater detail on pages 9-10.

RESULTS BY EMPLOYER

Exhibits are provided beginning on page 13 which provide individual results for the various employers that make up the Attleboro Retirement System. Pension expense, as well as any deferred inflows and outflows of resources, and any excess contribution generated by Federal Grants, have been allocated to the various employers in the same manner as the FY2022 appropriation.

Per GASB 68, the change in proportionality from FY2021 to FY2022 if the individual employers' NPL and deferred inflows and outflows need to be allocated to the individual employers. This is calculated on page 15. These amounts are then recognized over the average remaining service, which is 6.0 years. The recognition of proportion changes is developed on page 16.

Pension Expense for the Fiscal Year Ended June 30, 2022

NOTE*	Description	Fiscal 2022
A	Service Cost	\$ 5,923,524
A, B	Interest on the Total Pension Liability	19,025,747
C	Differences between Expected and Actual Experience	468,980
D	Changes of Assumptions	3,792,549
D	Changes to Benefit Provisions	0
A	Employee Contributions	(3,919,408)
E	Projected Earnings on Pension Plan Investments	(13,674,361)
F	Differences between Projected and Actual Earnings on Plan Investments	(8,703,528)
A	Pension Plan Administrative Expense	310,683
A	Other Changes in Fiduciary Net Position	<u>0</u>
	Total Pension Expense	\$ 3,224,187

* Notes shown on following page.

Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

	Deferred Outflows Of Resources	Deferred Inflows Of Resources
Differences between expected and actual experience	\$ 1,306,356	\$ (765,423)
Changes of assumptions	8,900,590	0
Net difference between projected and actual earnings on pension plan investments	<u>0</u>	<u>(25,460,874)</u>
TOTAL	\$ 10,206,946	\$ (26,226,296)

Year Ending December 31, *	Recognition
2022	\$ (2,796,025)
2023	\$ (8,170,635)
2024	\$ (3,890,666)
2025	\$ (2,067,582)
2026	\$ 905,558
Thereafter	\$ 0

*The years are based on measurement date. For GASB 68, the year ending December 31, 2022 is Fiscal 2023.

NOTES

- A. See the RSI schedule of changes to the net pension liability, on page 2.
- B. The discount rate is reduced to 7.00% as of a measurement date of 12/31/2021; for the measurement period leading up to that date, the prior rate of 7.25% applies. The amount is determined as follows:

Description	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Interest on the TPL (a) x (b) x (c)
Beginning TPL	\$ 264,292,667	100%	7.25%	\$ 19,161,218
Service cost	5,923,524	100%	7.25%	429,455
Benefit payments	(15,584,186)	50%	7.25%	<u>(564,927)</u>
Total interest on the NPL				\$ 19,025,747

- C. Differences between expected and actual experience recognized in the current period in accordance with paragraph 71a of Statement 68. For the detailed calculation of the recognition of this amount, see the schedules on page 9.
- D. Assumption and plan provision changes recognized in pension expense in the current period in accordance with paragraph 71a of Statement 68. For detailed calculation of the recognition of these amounts, see the schedule on page 9.
- E. Changes in the amounts invested are assumed to occur evenly throughout the period. As with item B above, a rate of 7.25% applies. The amount is determined as follows:

Description	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	Projected Earnings (a) x (b) x (c)
Beginning FNP	\$ 190,176,480	100%	7.25%	\$ 13,787,795
Employer contributions	8,846,255	50%	7.25%	320,677
Employee contributions	3,919,408	50%	7.25%	142,079
Benefit payments	(15,584,186)	50%	7.25%	(564,927)
Administrative expense and other	(310,683)	50%	7.25%	(11,262)
Total projected earnings				\$ 13,674,361
Actual investment earnings				<u>29,024,621</u>
Difference: (Gain)/Loss				\$ (15,350,260)

- F. Differences between projected and actual earnings recognized in the current period in accordance with paragraph 71b of Statement 68. For detailed calculation of the recognition of this amount, see the schedule on page 9.

Discount Sensitivity

The following presents the Attleboro Retirement System's Net Pension Liability calculated at the valuation discount rate of 7.00%, as well as at discount rates one percent lower (6.00%) and one percent higher (8.00%).

Fiscal Year	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
2022	\$ 94,197,728	\$ 63,019,208	\$ 36,646,799

Long-Term Expected Real Rate of Return

The long-term expected real rate of return reflects the expected rate of return on plan assets minus the expected rate of inflation. Note that the discount rate includes the effect of inflation. The long-term real rate of return removes the effect of inflation on the return amounts. It is a long-term assumption and is meant to reflect a best estimate of future experience, based on the expected asset allocation. This section, along with the money-weighted rate of return, has been removed as the retirement trust is not expected to issue a financial statement under GASB 67, and GASB 68 does not require this section.

Development of Results

DISCOUNT RATE

Projections were made using a discount rate assumption of 7.00%, which is consistent with the actuarial funding valuation. One of the objectives of the provisions of GASB 68 is to examine how benefit payments and plan contributions and investment earnings interact on a cash flow basis. GASB requires that these amounts be calculated with Market Value of Assets and using the Entry Age Normal cost method.

Projected contributions for each year are the sum of:

- Projected normal cost,
- Amortization of the unfunded liability,
- Administrative expense, and
- Other benefit costs such as 3(8)(c) payments.

The amortization bases and periods are consistent with those seen in the valuation report. Administrative expenses are increased by 4.50% per year. The Attleboro Retirement System's Fiduciary Net Position was projected to be available to make all future benefit payments of current active and inactive employees. Thus, the long-term expected rate of return on investments was applied for all benefit periods when calculating the Net Pension Liability.

The long-term rate of return which was used to develop the discount rate of 7.00% includes the effect of inflation (not subtracted out as in the real rates of return). It is based on a combination of expected rates of return on the mix of current and expected investments over a long-term period. These expectations are based on current market conditions, historical experience and future expectations. It assumes a rebalancing of assets on an ongoing basis as well as a constant monitoring of asset allocation and manager performance.

EXHIBITS

The recognition and deferral of various gains and losses are developed on the following two pages. These are followed by historical exhibits displaying changes in the NPL and contribution amounts for past years, and the exhibits which display results by employer.

Increase / (Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences between Expected and Actual Experience

Year	Differences between actual and expected experience	Recognition period (years)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
2016	\$ 7,859,539	5.8	\$ 1,355,093	\$ 1,355,093	\$ 1,355,093	\$ 1,355,093	\$ 1,355,093	\$ 1,084,074	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2017	\$ -	5.8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2018	\$ 1,568,634	5.8	\$ -	\$ -	\$ 270,454	\$ 270,454	\$ 270,454	\$ 270,454	\$ 270,454	\$ 216,363	\$ -	\$ -	\$ -	\$ -	\$ -
2019	\$ -	5.8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2020	\$ 2,144,825	6.1	\$ -	\$ -	\$ -	\$ -	\$ 351,611	\$ 351,611	\$ 351,611	\$ 351,611	\$ 351,611	\$ 351,611	\$ 35,161	\$ -	\$ -
2021	\$ -	6.1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2022	\$ (918,507)	6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (153,085)	\$ (153,085)	\$ (153,085)	\$ (153,085)	\$ (153,085)	\$ (153,085)	\$ -
Net increase (decrease) in pension expense			\$ 1,355,093	\$ 1,355,093	\$ 1,625,547	\$ 1,625,547	\$ 1,977,158	\$ 1,706,139	\$ 468,980	\$ 414,889	\$ 198,526	\$ 198,526	\$ (117,923)	\$ (153,085)	\$ -

Increase / (Decrease) in Pension Expense Arising from the Recognition of the Effects of Changes of Assumptions

Year	Change of assumptions	Recognition period (years)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
2016	\$ 5,151,129	5.8	\$ 888,126	\$ 888,126	\$ 888,126	\$ 888,126	\$ 888,126	\$ 710,501	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2017	\$ -	5.8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2018	\$ 12,275,158	5.8	\$ -	\$ -	\$ 2,116,407	\$ 2,116,407	\$ 2,116,407	\$ 2,116,407	\$ 2,116,407	\$ 1,693,125	\$ -	\$ -	\$ -	\$ -	\$ -
2019	\$ -	5.8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2020	\$ 3,766,749	6.1	\$ -	\$ -	\$ -	\$ -	\$ 617,500	\$ 617,500	\$ 617,500	\$ 617,500	\$ 617,500	\$ 617,500	\$ 61,750	\$ -	\$ -
2021	\$ -	6.1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2022	\$ 6,351,858	6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,058,643	\$ 1,058,643	\$ 1,058,643	\$ 1,058,643	\$ 1,058,643	\$ 1,058,643	\$ -
Net increase (decrease) in pension expense			\$ 888,126	\$ 888,126	\$ 3,004,532	\$ 3,004,532	\$ 3,622,032	\$ 3,444,407	\$ 3,792,549	\$ 3,369,268	\$ 1,676,143	\$ 1,676,143	\$ 1,120,393	\$ 1,058,643	\$ -

Increase / (Decrease) in Pension Expense Arising from the Recognition of Differences between Expected and Actual Earnings on Pension Plan Investments

Year	Differences between projected and actual earnings on pension plan investments	Recognition period (years)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
older*	\$ 15,668,658	5	\$ 2,843,068	\$ 3,133,732	\$ 3,133,732	\$ 3,133,732	\$ 2,502,682	\$ 290,664	\$ -	\$ -	\$ -	\$ -	\$ -
2018	\$ (10,616,728)	5	\$ -	\$ -	\$ (2,123,346)	\$ (2,123,346)	\$ (2,123,346)	\$ (2,123,346)	\$ (2,123,346)	\$ -	\$ -	\$ -	\$ -
2019	\$ 17,325,609	5	\$ -	\$ -	\$ -	\$ 3,465,122	\$ 3,465,122	\$ 3,465,122	\$ 3,465,122	\$ 3,465,122	\$ -	\$ -	\$ -
2020	\$ (21,399,844)	5	\$ -	\$ -	\$ -	\$ -	\$ (4,279,969)	\$ (4,279,969)	\$ (4,279,969)	\$ (4,279,969)	\$ (4,279,969)	\$ -	\$ -
2021	\$ (13,476,417)	5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (2,695,283)	\$ (2,695,283)	\$ (2,695,283)	\$ (2,695,283)	\$ (2,695,283)	\$ -
2022	\$ (15,350,260)	5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (3,070,052)	\$ (3,070,052)	\$ (3,070,052)	\$ (3,070,052)	\$ (3,070,052)
Net increase (decrease) in pension expense			\$ 2,843,068	\$ 3,133,732	\$ 1,010,386	\$ 4,475,508	\$ (435,510)	\$ (5,342,812)	\$ (8,703,528)	\$ (6,580,182)	\$ (10,045,304)	\$ (5,765,335)	\$ (3,070,052)

* Years 2015-2017

Deferred Outflows and Deferred Inflows of Resources Arising from Differences between Expected and Actual Experience

Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense through June 30, 2022 (c)	BALANCES AT JUNE 30, 2022	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ 1,568,634	\$ -	\$ 1,352,271	\$ 216,363	\$ -
2019	\$ -	\$ -	\$ -	\$ -	\$ -
2020	\$ 2,144,825	\$ -	\$ 1,054,832	\$ 1,089,993	\$ -
2021	\$ -	\$ -	\$ -	\$ -	\$ -
2022	\$ -	\$ (918,507)	\$ (153,085)	\$ -	\$ (765,423)
TOTAL				\$ 1,306,356	\$ (765,423)

Deferred Outflows and Deferred Inflows of Resources Arising from Changes of Assumptions

Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense through June 30, 2022 (c)	BALANCES AT JUNE 30, 2022	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ 12,275,158	\$ -	\$ 10,582,033	\$ 1,693,125	\$ -
2019	\$ -	\$ -	\$ -	\$ -	\$ -
2020	\$ 3,766,749	\$ -	\$ 1,852,500	\$ 1,914,250	\$ -
2021	\$ -	\$ -	\$ -	\$ -	\$ -
2022	\$ 6,351,858	\$ -	\$ 1,058,643	\$ 5,293,215	\$ -
TOTAL				\$ 8,900,590	\$ -

Deferred Outflows and Deferred Inflows of Resources
Arising from Differences between Expected and Actual Earnings on Pension Plan Investments

Year	Investment Earnings Less than Projected (a)	Investment Earnings More than Projected (b)	Amounts Recognized in Pension Expense through June 30, 2022 (c)	BALANCES AT JUNE 30, 2022	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ -	\$ (10,616,728)	\$ (10,616,728)	\$ -	\$ -
2019	\$ 17,325,609	\$ -	\$ 13,860,487	\$ 3,465,122	\$ -
2020	\$ -	\$ (21,399,844)	\$ (12,839,907)	\$ -	\$ (8,559,938)
2021	\$ -	\$ (13,476,417)	\$ (5,390,567)	\$ -	\$ (8,085,850)
2022	\$ -	\$ (15,350,260)	\$ (3,070,052)	\$ -	\$ (12,280,208)
TOTAL				\$ 3,465,122	\$ (28,925,996)
			NET TOTAL		\$ (25,460,874)

**Schedule of Changes in Attleboro's
Net Pension Liability and Related Ratios**

(Amounts in Thousands)

Fiscal Year *	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
TOTAL PENSION LIABILITY										
Service cost	5,924	5,668	5,131	4,937	4,724	4,259	4,075	3,839		
Interest	19,026	18,371	17,884	17,238	15,537	15,649	14,071	13,734		
Change of benefit terms	-	-	-	-	1,193	-	-	-		
Differences between expected and actual experience	(919)	-	2,145	-	1,569	-	7,860	-		
Change of assumptions	6,352	-	3,767	-	12,275	-	5,151	-		
Benefit payments , including refunds of employee contributions	(15,584)	(14,937)	(14,122)	(13,384)	(12,277)	(11,581)	(11,034)	(10,577)		
Net change in total pension liability	14,798	9,102	14,805	8,790	23,021	8,327	20,123	6,997		
Total pension liability - beginning	264,293	255,191	240,386	231,595	208,574	200,247	180,124	173,127		
Total pension liability - ending	279,091	264,293	255,191	240,386	231,595	208,574	200,247	180,124		
PLAN FIDUCIARY NET POSITION										
Contributions - employer	8,846	8,359	7,738	7,271	6,886	6,420	6,164	5,806		
Contributions - employee	3,919	3,910	3,711	3,558	3,325	3,240	3,055	3,134		
Net Investment Income	29,025	25,522	31,706	(6,329)	20,281	8,220	(1,136)	6,556		
Benefit payments , including refunds of employee contributions	(15,584)	(14,937)	(14,122)	(13,384)	(12,277)	(11,581)	(11,034)	(10,577)		
Administrative expense	(311)	(316)	(304)	(219)	(200)	(195)	(177)	(224)		
Other	-	-	-	-	-	-	-	-		
Net change in plan fiduciary net position	25,895	22,538	28,729	(9,103)	18,017	6,104	(3,127)	4,696		
Plan fiduciary net position - beginning	190,176	167,639	138,909	148,013	129,996	123,892	127,019	122,323		
Plan fiduciary net position - end	216,072	190,176	167,639	138,909	148,013	129,996	123,892	127,019		
Attleboro net pension liability - ending	63,019	74,116	87,552	101,476	83,583	78,578	76,356	53,105		
Plan fiduciary net position as a percentage of the total pension liability	77.4%	72.0%	65.7%	57.8%	63.9%	62.3%	61.9%	70.5%		
Covered payroll (calendar year timing)	40,221	39,931	38,041	35,925	34,259	33,502	31,979	30,690		
Attleboro's net pension liability as a percentage of covered payroll	156.7%	185.6%	230.1%	282.5%	244.0%	234.5%	238.8%	173.0%		

Note: sums may not total due to rounding

Information not available prior to 2015

Schedule of Plan Contributions

(Amounts in Thousands)

Fiscal Year	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Actuarially determined contribution	\$ 8,842	\$ 8,352	\$ 7,734	\$ 7,268	\$ 6,881	\$ 6,418	\$ 6,166	\$ 5,798		
Contributions in relation to the actuarially determined contribution	(8,846)	(8,359)	(7,738)	(7,271)	(6,886)	(6,420)	(6,164)	(5,806)		
Contribution deficiency / (excess)*	(4)	(6)	(4)	(3)	(5)	(3)	2	(9)		
Covered payroll (fiscal year timing)	\$ 41,271	\$ 40,909	\$ 38,598	\$ 36,772	\$ 35,092	\$ 34,272	\$ 32,740	\$ 31,420		
Contributions as a percentage of covered payroll	21.4%	20.4%	20.0%	19.8%	19.6%	18.7%	18.8%	18.5%		

* Excess is due to Federal Grants

Information not available for years prior to 2015

Results by Employer

Employer	Covered Payroll*	Proportionate Share of NPL**	Proportionate share of NPL as a percentage of covered payroll*	Proportionate share of NPL Discount Sensitivity	
				1% Increase (8.00%)	1% Decrease (6.00%)
City of Attleboro	\$ 39,222,279	\$ 62,007,594	158.1%	\$ 36,078,241	\$ 92,662,315
Attleboro Housing Authority	\$ 998,969	\$ 993,549	99.5%	\$ 558,405	\$ 1,507,995
Attleboro Redevelopment Authority	\$ -	\$ 18,065	N/A	\$ 10,153	\$ 27,418
TOTAL	\$ 40,221,247	\$ 63,019,208	156.7%	\$ 36,646,799	\$ 94,197,728

Employer	Actuarially determined contribution FY2022	Contributions made for FY 2022	Contribution deficiency (excess)	Contributions as a percentage of covered payroll***
City of Attleboro	\$ 8,693,383	\$ (8,697,670)	\$ (4,287)	21.6%
Attleboro Housing Authority	\$ 145,944	\$ (146,016)	\$ (72)	14.2%
Attleboro Redevelopment Authority	\$ 2,568	\$ (2,569)	\$ (1)	N/A
TOTAL	\$ 8,841,895	\$ (8,846,255)	\$ (4,360)	21.4%

Employer	Proportion	Proportionate Share of Pension Expense	Proportion changes and differences between employer contributions and proportionate share recognized as expense	Total Pension Expense
City of Attleboro	98.32%	\$ 3,172,431	\$ (26,937)	\$ 3,145,493
Attleboro Housing Authority	1.65%	\$ 50,832	\$ 31,932	\$ 82,764
Attleboro Redevelopment Authority	0.03%	\$ 924	\$ (4,994)	\$ (4,070)
TOTAL	100.00%	\$ 3,224,187		

* Covered Payroll is the projected amount for the 2021 calendar year based on employee data as of December 31, 2021

** ERI liability used in proportionate share of NPL is \$2,804,087 for City of Attleboro

*** Here the Covered Payroll figure is projected for Fiscal Year 2022, based on employee data as of December 31, 2021

Deferred Outflows of Resources by Employer*

Employer	Differences between expected and actual experience	Changes of assumptions	Net difference between projected and actual earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Employer contributions subsequent to the measurement date	Total Deferred Outflows of Resources
City of Attleboro	\$ 1,285,386	\$ 8,757,713	\$ -	\$ 3,056	\$ -	\$ 10,046,155
Attleboro Housing Authority	\$ 20,596	\$ 140,325	\$ -	\$ 117,654	\$ -	\$ 278,575
Attleboro Redevelopment Authority	\$ 374	\$ 2,551	\$ -	\$ 230	\$ -	\$ 3,156
TOTAL	\$ 1,306,356	\$ 8,900,590	\$ -	\$ 120,940	\$ -	\$ 10,327,886

Deferred Inflows of Resources by Employer*

Employer	Differences between expected and actual experience	Changes of assumptions	Net difference between projected and actual earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Employer contributions subsequent to the measurement date	Total Deferred Inflows of Resources
City of Attleboro	\$ 753,136	\$ -	\$ 25,052,164	\$ 113,741	N/A	\$ 25,919,041
Attleboro Housing Authority	\$ 12,068	\$ -	\$ 401,412	\$ 225	N/A	\$ 413,704
Attleboro Redevelopment Authority	\$ 219	\$ -	\$ 7,298	\$ 6,974	N/A	\$ 14,492
TOTAL	\$ 765,423	\$ -	\$ 25,460,874	\$ 120,940	N/A	\$ 26,347,236

Recognition of Deferred Outflows and Deferred Inflows

Employer	AMOUNT TO BE RECOGNIZED FOR THE YEAR ENDING DECEMBER 31,					
	2022	2023	2024	2025	2026	Thereafter
City of Attleboro	\$ (2,776,443)	\$ (8,067,341)	\$ (3,854,430)	\$ (2,050,591)	\$ 875,919	\$ -
Attleboro Housing Authority	\$ (14,460)	\$ (99,811)	\$ (33,942)	\$ (16,303)	\$ 29,387	\$ -
Attleboro Redevelopment Authority	\$ (5,122)	\$ (3,484)	\$ (2,295)	\$ (688)	\$ 253	\$ -
TOTAL	\$ (2,796,025)	\$ (8,170,635)	\$ (3,890,666)	\$ (2,067,582)	\$ 905,558	\$ -

* Deferred Outflows and Inflows due to experience, assumptions, and investment earnings are allocated according to each employer's proportion of the NPL

Effects of Changes in Proportion on Employers' Proportionate Share of NPL, and Deferred Inflows and Deferred Outflows of Resources

Employer	Proportion Change			FY2022 Contribution		
	Prior Proportionate Share of Prior NPL net of Deferrals	Share of Prior NPL based on Current Proportion of NPL	Difference (A)	Proportionate Share of Contribution based on Share of NPL	Amount Paid	Difference (B)
City of Attleboro	\$ 83,385,663	\$ 83,301,614	\$ (84,049)	\$ 8,704,251	\$ 8,697,670	\$ (6,581)
Attleboro Housing Authority	\$ 1,250,601	\$ 1,334,744	\$ 84,144	\$ 139,468	\$ 146,016	\$ 6,547
Attleboro Redevelopment Authority	\$ 24,362	\$ 24,268	\$ (94)	\$ 2,536	\$ 2,569	\$ 34
TOTAL	\$ 84,660,626	\$ 84,660,626	\$ -	\$ 8,846,255	\$ 8,846,255	\$ -

Employer	Total Proportion Change (A) + (B)	Recognized as Pension Expense*	Deferred for later recognition
City of Attleboro	\$ (90,630)	\$ (15,105)	\$ (75,525)
Attleboro Housing Authority	\$ 90,691	\$ 15,115	\$ 75,576
Attleboro Redevelopment Authority	\$ (61)	\$ (10)	\$ (51)
TOTAL	\$ -	\$ -	\$ -

* Based on an average remaining service life of 6.0 years.

Recognition of Proportion Changes

Proportion Changes by Employer / Year

Employer	2022	2021	2020	2019	2018	2017	2016
City of Attleboro	\$ (90,630.26)	\$ 120.47	\$ (67,909.65)	\$ (11,936.80)	\$ 21,567.15	\$ (17,253.86)	\$ (28,105.44)
Attleboro Housing Authority	\$ 90,691.02	\$ (334.37)	\$ 75,258.63	\$ 11,659.36	\$ 1,551.59	\$ 16,355.92	\$ 51,526.64
Attleboro Redevelopment Authority	\$ (60.76)	\$ 213.90	\$ (7,348.98)	\$ 277.43	\$ (23,118.74)	\$ 897.94	\$ (23,421.20)

Average Remaining Service Life by Year

2022	6.0
2021	6.1
2020	6.1
2019	5.8
2018	5.8
2017	5.8

Recognition Percentages by Year

Year of Gain/Loss	Percentage Recognized by Year*						
	2022	2023	2024	2025	2026	2027	Thereafter
2022	16.7%	16.7%	16.7%	16.7%	16.7%	16.7%	0.0%
2021	16.4%	16.4%	16.4%	16.4%	16.4%	1.6%	0.0%
2020	16.4%	16.4%	16.4%	16.4%	1.6%	0.0%	0.0%
2019	17.2%	17.2%	13.8%	0.0%	0.0%	0.0%	0.0%
2018	17.2%	13.8%	0.0%	0.0%	0.0%	0.0%	0.0%

* Percentages shown are rounded for display purposes.

Recognition Amounts by Year

Outflows

	2022	2023	2024	2025	2026	2027	Thereafter
City of Attleboro	\$ 3,738.22	\$ 2,994.53	\$ 19.75	\$ 19.75	\$ 19.75	\$ 1.97	\$ -
Attleboro Housing Authority	\$ 31,986.39	\$ 29,676.90	\$ 29,060.84	\$ 27,452.65	\$ 16,348.92	\$ 15,115.17	\$ -
Attleboro Redevelopment Authority	\$ 206.75	\$ 82.90	\$ 73.33	\$ 35.06	\$ 35.06	\$ 3.51	\$ -

Inflows

	2022	2023	2024	2025	2026	2027	Thereafter
City of Attleboro	\$ 30,675.69	\$ 28,295.84	\$ 27,884.23	\$ 26,237.77	\$ 16,218.32	\$ 15,105.04	\$ -
Attleboro Housing Authority	\$ 54.81	\$ 54.81	\$ 54.81	\$ 54.81	\$ 54.81	\$ 5.48	\$ -
Attleboro Redevelopment Authority	\$ 5,200.87	\$ 4,403.67	\$ 1,214.88	\$ 1,214.88	\$ 130.60	\$ 10.13	\$ -

TOTALS

	2022	2023	2024	2025	2026	2027	Thereafter
City of Attleboro	\$ (26,937.46)	\$ (25,301.31)	\$ (27,864.48)	\$ (26,218.02)	\$ (16,198.57)	\$ (15,103.07)	\$ -
Attleboro Housing Authority	\$ 31,931.57	\$ 29,622.08	\$ 29,006.02	\$ 27,397.84	\$ 16,294.10	\$ 15,109.69	\$ -
Attleboro Redevelopment Authority	\$ (4,994.11)	\$ (4,320.77)	\$ (1,141.54)	\$ (1,179.81)	\$ (95.54)	\$ (6.62)	\$ -

Reconciliation of Changes in the NPL

Employer	NPL, Beginning of Measurement Period	Contributions made for FY 2022	Change in Net Deferrals (calculated below)	Pension Expense	Proportion Change	NPL, End of Measurement Period
City of Attleboro	\$ 73,000,020	\$ (8,697,670)	\$ (5,376,557)	\$ 3,172,431	\$ (90,630)	\$ 62,007,594
Attleboro Housing Authority	\$ 1,094,839	\$ (146,016)	\$ (96,796)	\$ 50,832	\$ 90,691	\$ 993,549
Attleboro Redevelopment Authority	\$ 21,328	\$ (2,569)	\$ (1,558)	\$ 924	\$ (61)	\$ 18,065
TOTAL	\$ 74,116,187	\$ (8,846,255)	\$ (5,474,911)	\$ 3,224,187	\$ -	\$ 63,019,208

Employer	Net Deferrals, Beginning of Measurement Period	Net Deferrals, End of Measurement Period	Change in Net Deferrals
City of Attleboro	\$ (10,385,644)	\$ (15,762,200)	\$ (5,376,557)
Attleboro Housing Authority	\$ (155,762)	\$ (252,558)	\$ (96,796)
Attleboro Redevelopment Authority	\$ (3,034)	\$ (4,592)	\$ (1,558)
TOTAL	\$ (10,544,440)	\$ (16,019,351)	\$ (5,474,911)