January 1, 2022

Actuarial Valuation Report

Attleboro Retirement System



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November 28, 2022

Attleboro Retirement Board 77 Park Street Attleboro, MA 02703

To the Attleboro Retirement Board:

Stone Consulting, Inc. has performed a January 1, 2022 actuarial valuation of the Attleboro Retirement System. This valuation and report were prepared using generally accepted actuarial principles and practices. To the best of our knowledge, this report is complete and accurate, and the assumptions used represent a reasonable estimate of anticipated experience of the system except where noted in the text.

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 the results of this valuation. If the Retirement 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 inaccurate or misleading understanding of the results. The use of these results may not be appropriate for all circumstances.

I, Colin Edgar, am a consultant for Stone Consulting, Inc. I am a member of the American Academy of Actuaries and meet 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

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Report Summary

This report presents the results of the actuarial valuation of the Attleboro Retirement System as of January 1, 2022. The valuation was performed at the request of the Retirement Board for the purpose of determining the contribution requirements for Fiscal Year 2024 and beyond.

Summary of Results and Experience

Experience and Funding Schedule

The contribution is <u>equal to</u> the projected FY2024 contribution from the prior valuation. The schedule is based on annual contribution increases of 5.86%, except for the final year, when it decreases by 31.78%. The funding schedule is 14-years long, finishing in FY2037, consistent with the planned funding schedule from the 2020 valuation.

The funding ratio based on Actuarial Value of Assets increased from 62% to 69%.

Assumptions/methodology:

Changes in the mortality assumption and a reduction of the discount rate from 7.25% to 7.00% increased the liability by \$6.3 million. Assumptions and valuation methodology are discussed in Appendix A, on page 19.

Contribution requirements are based on the financial condition of the system as of December 31, 2021, as well as actuarial liability results, which are based on:

- The benefit provisions of M.G.L. Chapter 32 and related statutes;
- The demographics of members in the system (i.e., active and inactive participants, retirees and beneficiaries as of January 1, 2022);
- Economic assumptions regarding salary increases and investment earnings; and
- Other actuarial assumptions (e.g., withdrawals, retirement, death, etc.)

Format of the Report

- The funding schedule is shown on page 3, followed by an explanation of the actuarial results, funding schedule components, and a history of the funding schedules used by the Retirement System.
- Full actuarial valuation results are shown on page 18, with prior results included for comparison. The Attleboro Retirement Board conducted their previous actuarial valuation effective January 1, 2020.

Development of Funding Schedule

The funding contribution consists of three parts:

- <u>Net Normal Cost</u>: this is the amount of liability generated by active employees earning another year of service, and includes administrative expense.
- <u>Amortization</u>: this is the amount of the Unfunded Liability that will be paid off by this contribution.
- <u>Net 3(8)(c) Payments:</u> these are benefit payments made to other systems for service earned as a member of the Attleboro Retirement System.

The appropriation for Fiscal 2024 is as follows:

Net Employer Normal Cost for Fiscal 2024 (including admin. expenses)	\$ 3,018,777
Net 3(8)(c) Payments	152,334
Amortization	6,737,416
Timing Adjustment*	 0
Total Appropriation required for Fiscal 2024	\$ 9,908,527

* Contributions are assumed to be made at the beginning of the fiscal year.

NOTE: for all tables in this report, totals may not sum due to rounding.

- The schedule's length is fourteen (14) years which is consistent with the 14 years remaining from the 16-year schedule from the January 1, 2020 valuation. The maximum funding schedule length allowed by Section 22F of Chapter 32 of the Massachusetts General Laws is seventeen years to Fiscal 2040.
- Attleboro's funding schedule was developed by setting the contribution to increase by 5.86% annually, except for the final year, when it decreases by 31.78%.

The schedule is shown on the following page.



ATTLEBORO CONTRIBUTORY RETIREMENT SYSTEM FUNDING SCHEDULE MP-2021; 7.00% Discount Rate; 3% COLA on \$13,000 Base

			Funding			
Fiscal	Normal	Unfunded	Amortization	Net 3(8)(c)	Schedule	
Year	Cost	Liability	of UAAL	Payments	Contribution*	% Change
2024	3,018,777	88,612,236	6,737,416	152,334	9,908,527	5.86%
2025	3,154,622	87,606,057	7,182,211	152,334	10,489,167	5.86%
2026	3,296,580	86,053,515	7,654,918	152,334	11,103,832	5.86%
2027	3,444,926	83,886,499	8,157,257	152,334	11,754,517	5.86%
2028	3,599,948	81,030,289	8,691,050	152,334	12,443,331	5.86%
2029	3,761,945	77,402,986	9,258,231	152,334	13,172,511	5.86%
2030	3,931,233	72,914,887	9,860,853	152,334	13,944,420	5.86%
2031	4,108,138	67,467,816	10,501,091	152,334	14,761,563	5.86%
2032	4,293,005	60,954,397	11,181,252	152,334	15,626,590	5.86%
2033	4,486,190	53,257,265	11,903,785	152,334	16,542,308	5.86%
2034	4,688,068	44,248,223	12,671,286	152,334	17,511,688	5.86%
2035	4,899,031	33,787,324	13,486,507	152,334	18,537,873	5.86%
2036	5,119,488	21,721,873	14,352,370	152,334	19,624,192	5.86%
2037	5,349,865	7,885,368	7,885,368	152,334	13,387,567	-31.78%
2038	5,590,609	-	-	152,334	5,742,942	-57.10%

Amortization of Unfunded Liability as of July 1, 2023

Starting		Original Amort.	Percentage	Original #	Current Amort.	Years
Year	Туре	Amount	Increasing	of Years	Amount	Remaining
2003	ERI	201,194	4.25%	27	466,033	6
2024	Fresh Start	N/A	N/A	14	N/A	14

* Contribution is set to be the amount resulting from a 5.86% increase on the prior year's contribution, with 5.86% increases thereafter. The contribution in FY2037 decreases by -31.78%.

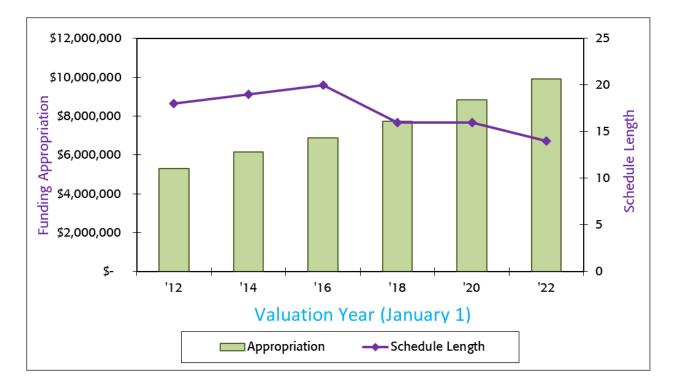


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Attleboro Retirement Board Actuarial Valuation as of January 1, 2022

History of Funding Effort

Below is a history of the length of funding schedule used by the Attleboro Retirement System, and the amount of the initial contribution for each funding schedule.



The funding objective of the plan is to fully fund the system while attempting to maintain a stable contribution amount for the upcoming fiscal year that is consistent with prior funding schedules or if employer finances allow it, to increase the contribution amount. This funding objective is being met.

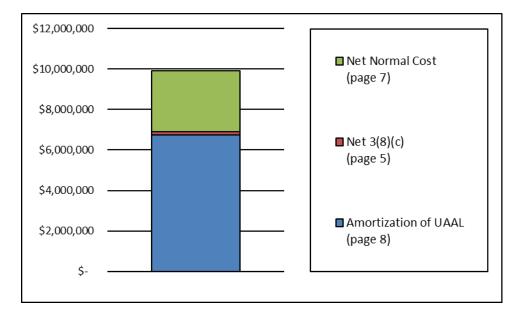
The following pages discuss the components that make up the contribution, and how they are calculated from the actuarial results.



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Components of Funding Appropriation

Components of the funding contribution are compared below, and discussed on the following pages.



Net 3(8)(c) Payments

- 3(8)(c) payments are benefits which the Attleboro Retirement System pays to or receives from other retirement boards for service that a retiree had with a different retirement system.
- The net amount is equal to what Attleboro pays out, less what Attleboro receives from other systems, based on the most recent PERAC annual statement:

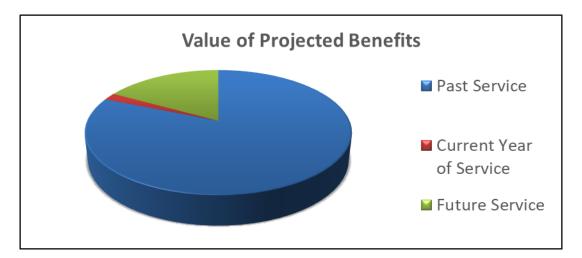
3(8)(c) payments made to other systems	\$ 370,990
3(8)(c) payments received from other systems	 (218,656)
Net payments in funding schedule	\$ 152,334

• For the funding schedule, the amount of net payments is assumed to remain level in future years.

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Development of Actuarial Results

Actuarial liabilities are calculated based on benefits that members are projected to receive in the future. The value of projected benefits is divided between past service, future service, and the current year of service.



The actuarial funding method (in this case, entry age normal), assigns values to each of these periods of service.

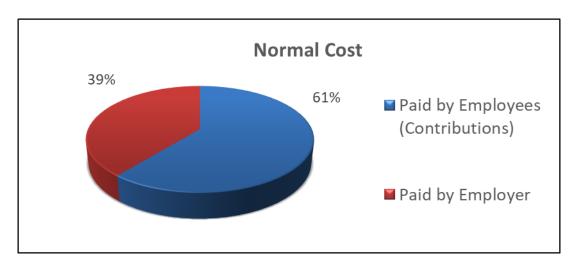
- <u>Past service</u>: The Actuarial Accrued Liability (AAL), is the portion of the benefit value that is associated with past service; this can be thought of as the "price" of benefits already earned by members of the system.
- <u>Current year</u>: The "price" of benefits being earned during the current year is referred to as the Normal Cost (NC). This includes only the actives, as neither inactives nor retirees are earning any additional service.
- <u>Future service</u>: The amount for future service is not included in the liability, as those years of service have not yet been earned.

For retirees, the "past service" amount accounts for the entire value of their benefits; they have completed their careers, and will earn no more service during the current year or any future years.



Net Normal Cost

The entire Normal Cost is not borne by the System; a significant portion is paid by employee contributions. The portion of the Normal Cost not covered by employee contributions is the amount that must be paid through funding appropriations; this is the Net Normal Cost.



The Net Normal Cost as seen in the funding schedule is calculated by adjusting for timing, and adding in the administrative expense. The calculation is shown below, and compared to the covered payroll:

	Janua	ary 1, 2022	% of Payroll*
Gross Normal Cost (GNC)	\$	6,340,999	15.8%
Employees Contribution		<u>3,860,876</u>	9.6%
Net Normal Cost (NNC)	\$	2,480,123	6.2%
Adjustment to beginning of Fiscal Year 2024**		169,278	
Administrative Expense		<u>369,376</u>	0.9%
Adjusted Net Normal Cost With Admin. Expense	\$	3,018,777	

* Payroll paid in 2021 for employees as of January 1, 2022 is \$40,221,247. Payroll for new hires in 2021 was annualized.

** The NNC is adjusted from January 1, 2022 to Fiscal 2024 by rolling it forward with a salary increase factor of 4.50%.



Unfunded Liability

The Unfunded Actuarial Accrued Liability (UAAL) is the portion of the AAL that is not covered by the value of the plan assets.

This is adjusted from the date of the valuation to the date of the contribution (July 1, 2023) to produce the Unfunded Liability seen in Fiscal Year 2024 in the funding schedule.

The liability results were as follows:

	Janu	ary 1, 2022
Actuarial Accrued Liability		
a. Active Members	\$	110,423,491
b. Inactive Members		1,480,309
c. Retired Members and Beneficiaries		<u>165,602,830</u>
d. Total	\$	277,506,630
Unfunded Actuarial Accrued Liability		
a. Actuarial Accrued Liability	\$	277,506,630
b. Less Actuarial Value of Assets		192,397,705
c. Unfunded Actuarial Accrued Liability	\$	85,108,925
d. Adjustment to FY2024		<u>3,503,311</u>
e. Unfunded Actuarial Accrued Liability as of FY2024	\$	88,612,236

The UAAL and funding ratio are measures of the plan's funded status, which reflect the plan's position as of January 1, 2022. We believe these measures, by themselves, are not appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations. However, we believe these measures, in conjunction with the plan's funding schedule and unrecognized gains/losses, are appropriate for assessing the amount of future contributions.



Active Liability by Decrement

An active member can incur liabilities for the Retirement System in one of four ways:

- They can <u>retire</u> (if eligible),
- They can become disabled and collect a disability benefit,
- They can <u>die</u>, or
- They can terminate service and withdraw their ASF balance or receive a deferred retirement benefit

Active members have a portion of their liability associated with each of these four outcomes. The Accrued Liability for active members is divided as follows:

Active Actuarial Accrued Liability	
Superannuation Retirement	\$ 100,984,558
Death	2,429,014
Disability	5,852,557
Withdrawal	 1,157,362
TOTAL	\$ 110,423,491



Demographic Results

Actives	
a. Number	712
b. Annual Compensation	\$40,221,247
c. Average Annual Compensation	\$56,491
d. Average Attained Age	45.9
e. Average Past Service	10.8
Retired, Disabled and Beneficiaries	
a. Number	485
b. Total Benefits (excluding State COLA)	\$15,916,352
c. Average Benefits	\$32,817
d. Average Age	71.9
Inactives	
a. Number	157

Total compensation changed by 5.7% over the prior valuation

- Average annual compensation changed by 1.7%
- Salary gain of \$2.5 million (0.9%) compared to projected experience

Valuation Year	Actives	Average Age	Average Past Service	Average Ann'l Pay
2022	712	45.9	10.8	\$56,491
2020	685	47.0	11.8	\$55,535
2018	647	47.2	12.5	\$52,950
2016	630	48.4	13.1	\$50,760
2014	632	48.0	13.0	\$46,265
2012	618	47.9	12.9	\$44,609
2010	626	N/A	N/A	\$42,582

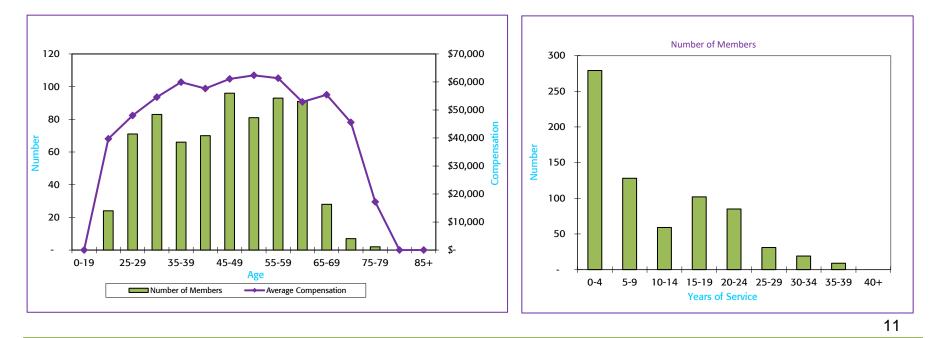
History of Demographic Statistics

Both employee age and service have decreased in recent years, following years of increases. This
pattern has appeared in the experience of several systems in the Commonwealth. Average annual
compensation has grown by 32.7% (2.4% annually) over the past twelve years.



Distribution of Plan Members as of January 1, 2022 ACTIVE MEMBERS

													Average
AGE	0-4 Years	5-9 Years	10-14 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40 + Years	Total	Total Co	mpensation	Compensation
0-19	-	-	-	-	-	-	-	-	-	-	\$	-	\$ -
20-24	24	-	-	-	-	-	-	-	-	24	\$	952,751	\$ 39,698
25-29	69	2	-	-	-	-	-	-	-	71	\$	3,408,830	\$ 48,012
30-34	48	30	5	-	-	-	-	-	-	83	\$	4,529,254	\$ 54,569
35-39	26	22	13	4	1	-	-	-	-	66	\$	3,955,960	\$ 59,939
40-44	35	11	6	14	4	-	-	-	-	70	\$	4,037,049	\$ 57,672
45-49	28	21	6	23	14	3	1	-	-	96	\$	5,865,426	\$ 61,098
50-54	17	13	9	12	15	9	6	-	-	81	\$	5,051,392	\$ 62,363
55-59	16	15	5	23	12	8	9	5	-	93	\$	5,703,071	\$ 61,323
60-64	10	9	12	22	27	6	1	4	-	91	\$	4,811,801	\$ 52,877
65-69	5	2	3	3	10	4	1	-	-	28	\$	1,552,193	\$ 55,435
70-74	1	2	-	1	2	-	1	-	-	7	\$	319,144	\$ 45,592
75-79	-	1	-	-	-	1	-	-	-	2	\$	34,377	\$ 17,189
80-84	-	-	-	-	-	-	-	-	-	-	\$	-	\$ -
85+	-	-	-	-	-	-	-	-	-	-	\$	-	\$ -
TOTAL	279	128	59	102	85	31	19	9	-	712	\$	40,221,247	\$ 56,491





Retired Members and Beneficiaries						
Age	Number	Average Benefit	Total Benefit			
0-24	1	22,249	22,249			
25-29	-	-	-			
30-34	-	-	-			
35-39	-	-	-			
40-44	2	17,286	34,573			
45-49	-	-	-			
50-54	4	37,953	151,813			
55-59	25	53,076	1,326,898			
60-64	57	36,379	2,073,583			
65-69	84	37,849	3,179,275			
70-74	95	31,359	2,979,116			
75-79	73	31,275	2,283,055			
80+	96	20,043	1,924,104			
TOTAL	437	\$ 31,979	\$ 13,974,664			

Disabled Members							
Age	Number	Average Benefit	Total Benefit				
0-24	-	-	-				
25-29	-	-	-				
30-34	-	-	-				
35-39	-	-	-				
40-44	-	-	-				
45-49	2	63,150	126,299				
50-54	4	54,925	219,702				
55-59	4	49,271	197,083				
60-64	12	42,867	514,407				
65-69	9	44,584	401,257				
70-74	6	31,429	188,573				
75-79	4	27,210	108,841				
80+	7	26,504	185,527				
TOTAL	48	\$ 40,452	\$ 1,941,689				

Total								
Age	Number	Ave	erage Benefit		Total Benefit			
0-24	1		22,249		22,249			
25-29	-		-		-			
30-34	-		-		-			
35-39	-		-		-			
40-44	2		17,286		34,573			
45-49	2		63,150		126,299			
50-54	8		46,439		371,515			
55-59	29		52,551		1,523,981			
60-64	69		37,507		2,587,989			
65-69	93		38,500		3,580,531			
70-74	101		31,363		3,167,689			
75-79	77		31,064		2,391,896			
80+	103		20,482		2,109,631			
TOTAL	485	\$	32,817	\$	15,916,352			

70,000 60,000 <mark>,</mark>2 50,000 age 40,000 g 30,000 20,000 10,000 _ 40-44 0-24 30-34 50-54 60-64 70-74 80+ Average Benefits

Benefits shown are net of State reimbursed COLA.



12

120

100

80

60

40

20

Number of Members

Assets

	Cash	\$ 1,977,173.72	
	Fixed Income Securities	273.53	
	Equities	76,013,594.05	
	Pooled Domestic Equity Funds	34,461,334.69	
	Pooled International Equity Funds	38,533,933.74	
	Pooled Domestic Fixed Income Funds	21,683,666.60	
	Pooled Alternative Investments	14,619,801.69	
	Pooled Real Estate Funds	28,728,876.92	
A	Sub-Total:	\$ 216,018,654.94	
	Interest Due and Accrued	\$ 13.65	
	Accounts Receivable	309,601.81	
	Accounts Payable	(256,375.74)	
В	Sub-Total:	\$ 53,239.72	
	Market Value of Assets [(A) + (B)]	\$ 216,071,894.66	

- The asset allocation is approximately 11% fixed income, cash, receivables and payables and 89% equities, alternative investments, real estate, hedge funds and similar types of investments.
- Annual return in calendar 2020-2021: 15.4% vs. a 7.25% assumption.
 - \$28,940,871 net actuarial asset gain in Calendar Years 2020 through 2021

Actuarial Value of Assets

For its Actuarial Value of Assets (AVA), Attleboro uses a four-year asset smoothing method which recognizes gains and losses over a four-year period. For example, for a gain in 2018, 25% would be recognized in 2019, another 25% in 2020, another 25% in 2021, and the final 25% in 2022.

The AVA is \$192.4 million, \$23.7 million lower than the MVA. The calculation of the smoothed asset value is shown on the following page.

Funding ratio as of 1/1/2022:

- 77.9% using Market Value of Assets
- 69.3% using Actuarial Value of Assets



Four-Year Asset Smoothing

3.

4.

5.

6.

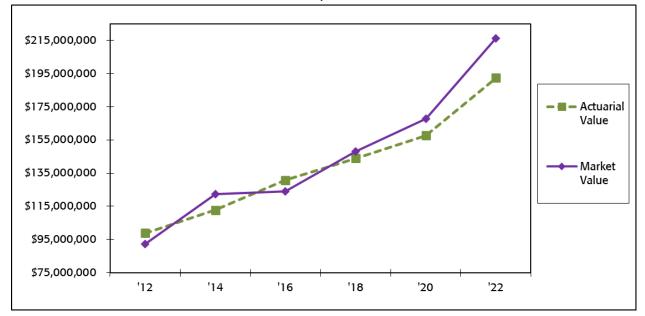
- 1. Market value of assets including receivable/payable as of 01/01/2022\$ 216,071,895
- 2. Phase-in of asset gains and losses

	Plan Year	Original Amount	Percent Unrecognized	Unre	nount cognized
	(1)	(2)	(3)	(2) x (3)
a.	2021	\$15,407,254	75%		\$11,555,440
b.	2020	\$13,533,618	50%		\$6,766,809
C.	2019	\$21,407,765	25%		\$5,351,941
d.	2018	(\$17,273,734)	0%		\$0 ¢0
e.	2017	\$10,183,237	0%		\$0
f.	Total	\$43,258,139			\$23,674,190
(1 2.f.		s of 01/01/2022		\$	192,397,705
Corrido					
a.	80% of Market Value				172,857,516
b.	120% of Market Value			\$	259,286,274
	n assets with corridor as of in Corridor)	01/01/2022		\$	192,397,705
Calculat	ion of return on valuation a	assets			
a. Val	uation assets as of 01/01/2	2020		\$	157,673,770
b. ER	contribs + EE contribs - Be	n Pymts - Expenses		\$	(6,223,500)
	ual return on valuation asso (6.a. + 6.b.)	\$	40,947,434		
d. We	ighted value of valuation as	\$	154,562,021		
	urn on valuation assets c. / 6.d.)				26.49%
f. Anı	nualized return on assets				12.47%



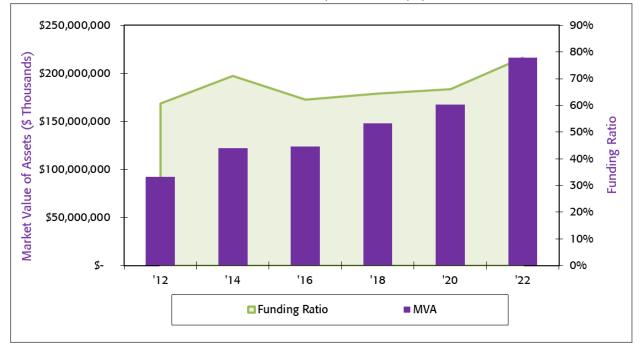
Attleboro Retirement Board Actuarial Valuation as of January 1, 2022

The benefit of using an asset smoothing method is that it results in a more stable measure of the financial condition of the Plan. This is illustrated by the chart below, which displays a history of the Actuarial Value and Market Value of Assets over the past six valuations.



Funding Ratio

The following displays the history of the funding ratio for the past six valuations, based on Market Value of Assets. The Market Value for each year is shown to accompany the funding ratio. We show the market value of assets as that is the amount of assets actually available to pay for benefits.





Risk

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as:

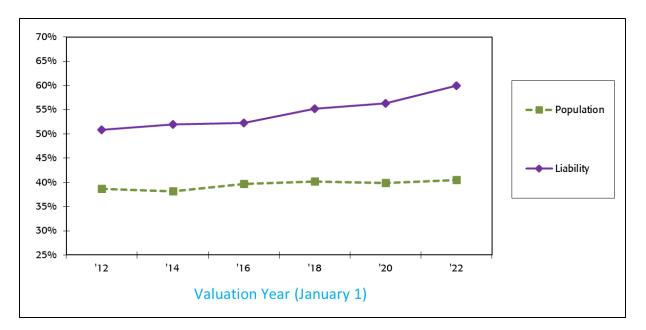
- Plan experience differing from that anticipated by the economic or demographic assumptions,
- Changes in economic or demographic assumptions,
- Increases or decreases expected as part of natural operation of the methodology used for these measurements such as additional contribution requirements based on the plan's funded status,
- Changes in plan provisions or applicable law.

As part of the valuation, we have not performed an analysis of the potential range of future measurements. GASB Statement 67 and 68 reports for the Attleboro Retirement System contain alternate results to measure the impact of increases or decreases in the discount rate.

Maturity

One important concern is the maturity of the system. Systems with a greater portion of their liability stemming from current retirees whose benefits already being paid are likely to experience greater impact from short-term asset experience, as high payouts in the near future leave less of the current assets will be available to benefit from investment returns further in the future.

Below is a history of the retiree's percentage of the covered population and liability. The retiree share of both the population and liability has gradually increased over the past six valuations.

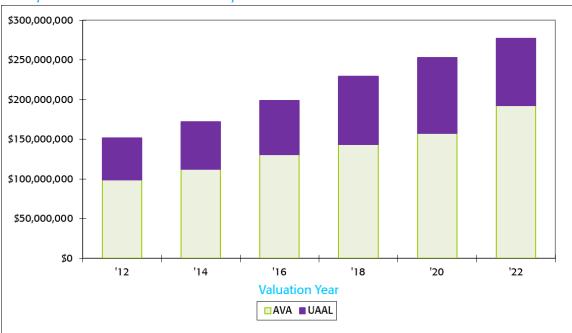




Attleboro Retirement Board Actuarial Valuation as of January 1, 2022

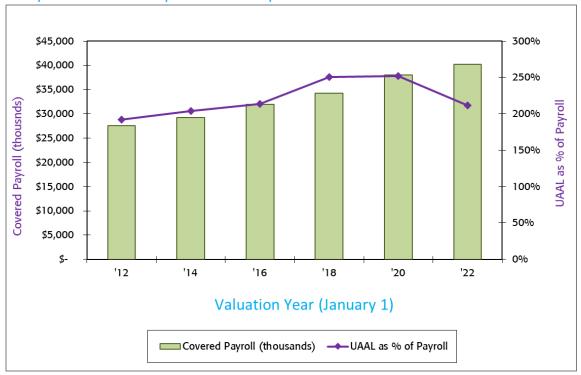
Historical Experience

The following charts display Attleboro's history of Actuarial Assets and Unfunded Liability; the second chart compares the unfunded liability to covered payroll.





History of Unfunded Liability and Covered Payroll





Comparative Results

	January 1, 2022	January 1, 2020	Percentage Change
Funding			
Contribution for Fiscal 2024	\$9,908,527	\$9,908,527	0.0%
Members			
 Actives 			
a. Number	712	685	3.9%
b. Annual Compensation	\$40,221,247	\$38,041,463	5.7%
c. Average Annual Compensation	\$56,491	\$55,535	1.7%
d. Average Attained Age	45.9	47.0	-2.3%
e. Average Past Service	10.8	11.8	-8.6%
 Retired, Disabled and Beneficiaries 			
a. Number	485	455	6.6%
b. Total Benefits*	\$15,916,352	\$13,848,746	14.9%
c. Average Benefits*	\$32,817	\$30,437	7.8%
d. Average Age	71.9	72.3	-0.5%
 Inactives 			
a. Number	157	145	8.3%
Normal Cost			
a. Total Normal Cost as of January 1, 2022	\$6,340,999	\$5,668,444	11.9%
b. Less Expected Members' Contributions	<u>3,860,876</u>	3,584,123	7.7%
c. Normal Cost to be funded by the Municipality	\$2,480,123	\$2,084,321	19.0%
d. Adjustment to July 1, 2023	169,278	142,263	19.0%
e. Administrative Expense Assumption	369,376	306,034	20.7%
f. Normal Cost Adjusted to July 1, 2023	\$3,018,777	\$2,532,618	19.2%
Actuarial Accrued Liability			
a. Active Members	\$110,423,491	\$110,190,881	0.2%
b. Inactive Members	1,480,309	1,271,989	16.4%
c. Retired Members and Beneficiaries	165,602,830	141,970,784	16.6%
d. Total	\$277,506,630	\$253,433,654	9.5%
Unfunded Actuarial Accrued Liability			
a. Actuarial Accrued Liability	\$277,506,630	\$253,433,654	9.5%
b. Less Actuarial Value of Assets	192,397,705	157,673,770	22.0%
c. Unfunded Actuarial Accrued Liability	\$85,108,925	\$95,759,883	-11.1%
d. Adjustment to FY2024	3,503,311	5,350,781	
e. Unfunded Actuarial Accrued Liability as of FY2024	\$88,612,236	\$101,110,664	

* Excluding State reimbursed COLA

APPENDICES

Appendix A – Actuarial Methods and Assumptions

All assumptions and methodologies were either set by statute or selected by the Attleboro Retirement Board in conjunction with guidance provided by Stone Consulting, Inc.

Stone Consulting, Inc. was furnished member and financial data by the Attleboro Retirement System's administrative staff. Although examined under broad parameters for reasonableness, the data was not audited by the actuary. With the assistance of the staff of the Attleboro Retirement Board, we were able to develop a database sufficient for valuation purposes.

ASSUMPTION AND METHODOLOGY CHANGES SINCE PRIOR VALUATION

- Mortality assumption: RP-2014 adjusted to 2006, projected generationally using MP-2021
 - The prior valuation used the same table, projected with MP-2019
 - This decreased the liability by \$648 thousand
- Discount rate: decreased to 7.00% from 7.25%
 - This increased the liability by \$7.0 million
- All other assumptions and methods were maintained from the prior valuation

ACTUARIAL METHODS

Actuarial Cost Method

The Entry Age Normal Actuarial Cost Method has been used in this valuation. Under this method, the normal cost is the amount calculated as the level percentage of compensation necessary to fully fund the prospective benefits from each member's entry age to retirement age.

The actuarial accrued liability represents the theoretical accumulation of all prior years' normal costs for the plan members as if the program had always been in effect. The unfunded actuarial accrued liability is the excess of the actuarial accrued liability over plan assets. The use of the Entry Age Normal actuarial funding method is consistent with the requirements of Chapter 32 of the Massachusetts General Laws.

Asset Valuation Method

Market Value of Assets, adjusted for payables and receivables, adjusted to phase in investment gains compared to the expected market value and losses evenly over four years (shown on page 14). The asset valuation method adjusts the results to no less than 80% and no more than 120% of the market value of assets adjusted for payables and receivables.

Fiscal Year Adjustment

The actuarial results are adjusted by the valuation interest rate and salary scale to the beginning of Fiscal Year 2024. The unfunded actuarial accrued liability is rolled forward with normal cost and further adjusted by anticipated contributions and interest.



Actuarial Methods and Assumptions (Continued)

ACTUARIAL ASSUMPTIONS

Valuation Date

January 1, 2022.

Investment Return

7.00% per year net of investment expenses. The investment return assumption is a long-term assumption and is based on capital market expectations by asset class, historical returns, and professional judgement.

Regular Interest Rate Credited to Annuity Savings Account

2% per year.

Cost-of-Living Increases

A 3% COLA on the first \$13,000 of a member's retirement allowance is assumed to be granted every year.

Salary Increases

Select and Ultimate. 3.75% ultimate rate, plus the following steps:

- Group 1 and 2: 6.50% increases for the first 8 years of service; 4.00% thereafter
- Group 4: 7.00% increases for the first 5 years of service; 4.00% thereafter

This is consistent with the prior valuation. Step increases are assumed to be part of the salary increase assumption. The total payroll is assumed to increase at 4.50% per year.

The salary increase assumption reflects prior experience including PERAC's 2002 local experience study, current expectations, and professional judgement.



Actuarial Methods and Assumptions (Continued)

Credited Service

All service is assumed to be due to employment with the municipality.

Family Composition

Members assumed married with 2 dependent children – one male and one female both age 15; age difference between member and spouse assumed to be 3 years (the male being the older).

Administrative Expenses

Estimated budgeted amount of \$369,376 for the Fiscal Year 2024 is added to the Normal Cost. The administrative expense does not include investment manager and custodial fees. These fees are considered part of the discount rate assumption that is net of fees.

Net 3(8)(c)

Net 3(8)(c) payments are assumed to be the same level as the past calendar year for all future years.

Contribution Timing

Contributions are assumed to be made at the beginning of the fiscal year.

In-Service Disability and Death

Both Disability and In-Service Death are assumed to be 45% ordinary and 55% accidental for Group 1 and 2, and 10% ordinary and 90% accidental for Group 4.

Withdrawal Prior to Retirement

The rates shown at the following sample ages illustrate the withdrawal assumption. Withdrawal rates are set to zero if the retirement rate at that age is nonzero.

Rate of Withdrawal					
Service	Group 1 and 2	Group 4			
0	15%	1.5%			
1	12%	1.5%			
2	10%	1.5%			
3	9%	1.5%			
4	8%	1.5%			
5	7.6%	1.5%			
10	5.4%	1.5%			
15	3.3%	0.0%			
20	2.0%	0.0%			
25	1.0%	0.0%			
30+	0.0%	0.0%			

Disability Prior to Retirement

The rates shown at the following sample ages illustrate the assumption regarding the incidence of disability:

Rate of Disability						
Age	Group 1 and 2	Group 4				
20	0.01%	0.10%				
25	0.02%	0.20%				
30	0.03%	0.30%				
35	0.06%	0.30%				
40	0.10%	0.30%				
45	0.15%	1.00%				
50	0.19%	1.25%				
55	0.24%	1.20%				
60	0.28%	0.85%				



Actuarial Methods and Assumptions (Continued)

Rates of Retirement

The rates shown at the following ages illustrate the assumption regarding the incidence of retirement, once the member has achieved 10 years of service:

				Hired after 4/1/2012			
Age	Group 1& 2 Male	Group 1 & 2 Female	Group 4	Group 1& 2 Male	Group 1 & 2 Female	Group 4	
50	1%	1.5%	2%	0%	0%	0%	
51	1%	1.5%	2%	0%	0%	0%	
52	1%	2.0%	2%	0%	0%	0%	
53	1%	2.5%	2%	0%	0%	0%	
54	2%	2.5%	7.5%	0%	0%	0%	
55	2%	5.5%	15%	0%	0%	10%	
56	2.5%	6.5%	10%	0%	0%	7%	
57	2.5%	6.5%	10%	0%	0%	20%	
58	5%	6.5%	10%	0%	0%	10%	
59	6.5%	6.5%	15%	0%	0%	15%	
60	12%	5%	20%	25%	30%	20%	
61	20%	13%	20%	20%	13%	20%	
62	30%	15%	25%	30%	15%	25%	
63	25%	12.5%	25%	25%	12.5%	25%	
64	22%	18%	30%	22%	18%	30%	
65	40%	15%	100%	40%	15%	100%	
66	25%	20%	N/A	25%	20%	N/A	
67	25%	20%	N/A	25%	20%	N/A	
68	30%	25%	N/A	30%	25%	N/A	
69	30%	20%	N/A	30%	20%	N/A	
70	100%	100%	N/A	100%	100%	N/A	

Mortality

RP-2014 table adjusted to 2006 and projected generationally with MP-2021 (sex-distinct). During employment the healthy employee mortality table is used. Post-employment the healthy annuitant table is used.

Mortality for disabled retirees follows the same table as non-disabled retirees, set forward 2 years. Death is assumed to be due to the same cause as the disability 40% of the time.

Appendix B – Summary of Principal Provisions

1. PARTICIPANT

Participation is mandatory for all full-time employees whose employment commences before age 65. There are three classes of members in the retirement system:

- Group 1: general employees
- Group 2: employees in specified hazardous occupations (e.g., electricians)
- Group 4: police and firefighters

2. MEMBER CONTRIBUTIONS

Member contributions vary depending upon date hired as follows:

Date of Hire	Member Contribution Rate
Prior to 1975	5% of Pay
1975 – 1983	7% of Pay
1984 – June 30, 1996	8% of Pay
After June 30, 1996	9% of Pay

Members hired after 1978 contribute an additional 2% of pay over \$30,000.

3. PAY

a. Pay

Gross regular compensation excluding bonuses, overtime, severance pay, unused sick pay, and other similar compensation.

b. Average Pay

The average of pay during the three consecutive years that produce the highest average or, if greater, during the last three years (whether or not consecutive) preceding retirement. For members hired after April 1, 2012, five-year averages will be used.

4. CREDITED SERVICE

Period during which an employee contributes to the retirement system plus certain periods of military service and "purchased" service.



Summary of Principal Provisions (Continued)

- 5. SERVICE RETIREMENT
- a. Eligibility

Hired prior to April 2, 2012:

- Attainment of age 55 and completion of ten years of credited service,
- or at any age with completion of 20 years of service.
- If hired prior to 1978 or a member of Group 4, the completion of ten years of service is not required.

Hired after April 1, 2012:

- Group 1 Age 60 and Completion of 10 years of credited service;
- Group 2 Age 55 and completion of 10 years of service;
- Group 4 Age 55.

b. Retirement Allowance

Determined as the product of the member's benefit percentage, average pay and credited service, where the benefit percentage is shown below (maximum allowance of 80% of average pay):

Benefit Percentage	Group 1	Group 2	Group 4
2.5%	65+	60+	55+
2.4	64	59	54
2.3	63	58	53
2.2	62	57	52
2.1	61	56	51
2.0	60	55	50
1.9	59	N/A	49
1.8	58	N/A	48
1.7	57	N/A	47
1.6	56	N/A	46
1.5	55	N/A	45
		Hired after April 1, 2012*	
2.5%	67+	62+	57+
2.35	66	61	56
2.20	65	60	55
2.05	64	59	54
1.90	63	58	53
1.75	62	57	52
1.60	61	56	51
1.45	60	55	50

*Reduction is .125% for each year early instead of .15% per year for employees with over 30 years of service.

In addition, veterans receive an additional \$15 per year for each year of credited service up to 20 years



Summary of Principal Provisions (Continued)

- 6. DEFERRED VESTED RETIREMENT
- a. Eligibility

Completion of 10 years of credited service (for elected and appointed members, 6 years in the event of involuntary termination).

b. Retirement Allowance

Determined in the same manner as "Service Retirement" section above with the member eligible to start collecting a benefit at age 55, (or age 57 for post-April 1, 2012 hires) or defer until later at his or her discretion. If a member chooses, his or her contributions with interest may be withdrawn. The amount of interest he or she will receive depends on length of service and whether or not the termination of employment was voluntary.

7. ORDINARY DISABILITY RETIREMENT

a. Eligibility

Non-job related disability after completion of 10 years of credited service.

b. Retirement Allowance

Determined in the same manner as "Service Retirement" section and calculated as if the member had attained age 55 (or age 60 for group 1 hired after April 1, 2012), if younger. Veterans receive 50% of pay (during final year) plus an annuity based on accumulated member contributions with interest.

- 8. ACCIDENTAL DISABILITY RETIREMENT
- a. Eligibility

Disabled as a result of an accident in the performance of duties. No age or service requirement.

b. Retirement Allowance

72% of pay plus an annuity based on accumulated member contributions with interest. Also, a dependent's allowance per year for each child. Total allowance not to exceed 100% of pay (75% for members hired after 1987).



Attleboro Retirement Board Actuarial Valuation as of January 1, 2022

Summary of Principal Provisions (Continued)

- 9. NON-OCCUPATIONAL DEATH
- a. Eligibility

Dies while in active service, but not due to occupational injury. 2 years of service.

b. Retirement Allowance

Benefit as if Option C had been elected (see below) and member had attained age 55 (or age 57 for those hired after April 1, 2012) if younger.

Minimum monthly benefits provided as follows:

- spouse \$500,
- first child \$120,
- each additional child \$90

10. OCCUPATIONAL DEATH

a. Eligibility

Dies as a result of an occupational injury.

b. Benefit Amount

72% of pay plus refund of annuity savings fund balance. In the case of an accidental disability retiree who dies of the same cause, the beneficiary receives 72% of the last 12 months salary or the current pension amount, whichever is greater.

11. COST-OF-LIVING INCREASES

An increase of up to 3% applied to the first \$13,000 of annual benefit. Funded by the Employer from Fiscal Year 1999. Percentage increase is voted on each year by the Retirement Board. Cost-of-living increases granted during Fiscal Year 1982 through Fiscal 1998 are reimbursed by the Commonwealth.

12. OPTIONAL FORMS OF PAYMENT

- Option A: Allowance payable monthly for the life of the member.
- <u>Option B:</u> Allowance payable monthly for the life of the member with a guarantee of remaining member contributions with interest.
- <u>Option C:</u> Allowance payable monthly for the life of the member with 66-2/3% continuing to the member's beneficiary upon the member's death. If the beneficiary predeceases the member, the allowance amount "pops up" to the non-reduced amount.



Attleboro Retirement Board Actuarial Valuation as of January 1, 2022

Appendix C – Glossary of Terms

Actuarial Accrued Liability
 The portion of the Present Value of Benefits that is attributable to past service.

Actuarial Value of Assets

The value of assets based on the asset valuation method shown in the Actuarial Methods and Assumptions section of this report.

Actuarial Assumptions

Estimates are made as to the occurrence of certain events that determine the level of benefits to be paid and how long they will be provided. The more important actuarial assumptions include the investment return on assets, salary increases and the rates of turnover, disability, retirement and mortality.

Actuarial Cost Method

The procedure that is used to allocate the present value of benefits between the liability that is attributable to past service (Actuarial Accrued Liability) and that attributable to future service.

Funding Ratio

The percentage of the accrued liability that is covered by the Actuarial Value of Assets.

GASB

Government Accounting Standards Board (issues guidance for disclosure of retirement system liabilities).

Normal Cost

The portion of the Present Value of Benefits that is attributable to benefits to be earned in the coming year.

PERAC

Public Employee Retirement Administration Commission, a division of the State government which has regulatory authority over the administration of the retirement system.

Present Value of Benefits

Represents the dollar value today of all benefits expected to be earned by current members if all actuarial assumptions are exactly realized.

PRIT

Pension Reserves Investment Trust Fund is the state controlled and administered fund for the investment of assets for members of the retirement system.

Unfunded Actuarial Accrued Liability

That portion of the Actuarial Accrued Liability not covered by System Assets.

Attleboro Retirement Board

Actuarial Valuation as of January 1, 2022

PERAC Information Disclosure

The most recent actuarial valuation of the System was prepared by Stone Consulting, Inc. as of January 1, 2022

The normal cost for employees on that date was:	\$3,860,876	9.6% of payroll
The normal cost for the employer was:	\$2,480,123	6.2% of payroll
The actuarial liability for active members was:	\$110,423,491	
The actuarial liability for retired members was (includes inactives):	\$167,083,139	
Total actuarial accrued liability:	\$277,506,630	
System assets as of that date (\$216,071,894.66 Market Value):	\$192,397,705	
Unfunded actuarial accrued liability:	\$85,108,925	

As of that date the total covered employee payroll was:

The principal actuarial assumptions used in the valuation are as follows:

Investment Return:7.00% per annumRate of Salary Increase:Select and ultimate rate (4.00% ultimate rate)

SCHEDULE OF FUNDING PROGRESS (Dollars in \$000's)

	Actuarial Value	Actuarial Accrued	Unfunded AAL	Funded	Covered	UAAL as a % of
Actuarial Valuation	of Assets	Liability (AAL)	(UAAL)	Ratio	Payroll	Covered Payroll
Date	(a)	(b)	(b-a)	(a/b)	(c)	((b-a)/c)
1/1/2022	\$192,398	\$277,507	\$85,109	69%	\$40,221	212%
1/1/2020	\$157,674	\$253,434	\$95,760	62%	\$38,041	252%
1/1/2018	\$143,874	\$229,851	\$85,977	63%	\$34,259	251%
1/1/2016	\$130,788	\$199,034	\$68,246	66%	\$31,979	213%
1/1/2014	\$112,700	\$172,323	\$59,623	65%	\$29,240	204%

\$40,221,247



		Actuarial Results Breakdown by Governmental Unit and Department		City (Cty)	Housing (AHA)	Redevelopment (ARA)
			Total			()
(1)		Participants				
(-)		Active	712	694	18	0
		Inactives	157	150	6	1
		Retirees	437	431	6	0
		Disabled Retirees	48	48	0	0
		Total	1,354	1,323	30	1
(2)		Payroll of Active Participants	\$40,221,247	\$39,222,279	\$998,969	\$0
(3)		Normal Cost				
1-7	_	Total Normal Cost	\$6,340,999	\$6,196,274	\$144,725	\$0
		Expected Employee Contributions	\$3,860,876	\$3,766,620	\$94,256	\$0
		Administrative Expense	\$369,376	\$360,945	\$8,431	\$0
		Net Employer Normal Cost	\$2,849,499	\$2,790,599	\$58,900	\$0
		Interest on Net Normal Cost	\$169,278	\$165,779	\$3,499	\$0
		Net Employer Normal Cost w Interest	\$3,018,777	\$2,956,378	\$62,399	\$0
(4)		Net 3(8)(c)	\$152,334	\$149,185	\$3,149	\$0
(5)		Actuarial Accrued Liability	\$277,506,630	\$272,351,002	\$5,041,199	\$114,429
(6)		Accets	¢102 207 705	¢199 922 264	¢2.405.106	¢70.225
(6)		Assets	\$192,397,705	\$188,823,264	\$3,495,106	\$79,335
(7)		Unfunded Actuarial Accrued Liability (UAAL)	\$85,108,925	\$83,527,738	\$1,546,093	\$35,094
(.)			<i><i>(00)</i></i>	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	<i> </i>	<i>400,00</i>
(8)		UAAL projected to July 1, 2023	\$88,612,236	\$86,965,963	\$1,609,734	\$36,539
. ,			. , ,		.,,,	. ,
(9)		2003 ERI Amortization	\$466,033	\$466,033	\$0	\$0
(1.0)			46.074.004	46.454.074		40 500
(10)		Unfunded Amortization excluding ERI	\$6,271,384	\$6,154,871	\$113,926	\$2,586
(11)		Fiscal 2024 Cost (3f) +(4) + (9) +(10)	\$9,908,527	\$9,726,467	\$179,474	\$2,586
(==)			<i>\$3,300,327</i>	<i>\$3,120,101</i>	<i>\</i>	<i>\</i> 2,500
(12)		Percentage of Total	100%	98.16%	1.81%	0.03%
(13)		Fiscal 2025 Cost	\$10,489,167	\$10,296,438	\$189,991	\$2,738
(14)		Percentage of Total	100%	98.16%	1.81%	0.03%

		Actuarial Results Breakdown by Governmental Unit and Department	City Council	Mayor's Office	Budget & M.L.S.	Accounting	Assessors	City Treasurer	City Collector
(1)		Participants							
		Active	10	5	6	5	4	5	5
		Inactives	6	0	0	0	0	1	1
		Retirees	4	6	3	1	5	5	5
		Disabled Retirees	0	0	1	0	0	0	0
		Total	20	11	10	6	9	11	11
(2)		Payroll of Active Participants	\$143,632	\$425,451	\$495,431	\$387,447	\$226,032	\$306,275	\$268,410
(3)		Normal Cost							
	(a)	Total Normal Cost	\$25,787	\$50,606	\$64,688	\$50,836	\$28,219	\$37,721	\$35,745
	(b)	Expected Employee Contributions	\$12,616	\$42,486	\$45,930	\$38,053	\$21,427	\$30,681	
	(c)	Administrative Expense	\$1,502	\$2,948	\$3,768	\$2,961	\$1,644	\$2,197	\$2,082
	(d)	Net Employer Normal Cost	\$14,673	\$11,068	\$22,526	\$15,744	\$8,436	\$9,237	\$12 <i>,</i> 469
	(e)	Interest on Net Normal Cost	\$872	\$658	\$1,338	\$935	\$501	\$549	\$741
	(f)	Net Employer Normal Cost w Interest	\$15,545	\$11,726	\$23,864	\$16,679	\$8,937	\$9,786	\$13,210
(4)		Net 3(8)(c)	\$784	\$592	\$1,204	\$842	\$451	\$494	\$667
(5)		Actuarial Accrued Liability	\$978,390	\$2,088,924	\$2,474,159	\$1,510,393	\$1,989,143	\$1,603,825	\$1,668,483
(6)		Assets	\$678,326	\$1,448,269	\$1,715,355	\$1,047,168	\$1,379,090	\$1,111,946	\$1,156,773
(7)		Unfunded Actuarial Accrued Liability (UAAL)	\$300,064	\$640,655	\$758,804	\$463,225	\$610,053	\$491,879	\$511,710
(8)		UAAL projected to July 1, 2023	\$312,415	\$667,026	\$790,038	\$482,293	\$635,164	\$512,126	\$532,773
(9)		2003 ERI Amortization	\$1,606	\$5,142	\$4,584	\$1,110	\$3,175	\$3,721	\$2,290
(10)		Unfunded Amortization excluding ERI	\$22,111	\$47,208	\$55,914	\$34,133	\$44,953	\$36,245	\$37,706
(11)		Fiscal 2024 Cost (3f) +(4) + (9) +(10)	\$40,046	\$64,668	\$85,566	\$52,764	\$57,516	\$50,246	\$53,873
(12)		Percentage of Total	0.40%	0.65%	0.86%	0.53%	0.58%	0.51%	0.54%
(13)		Fiscal 2025 Cost	\$42,393	\$68,458	\$90,580	\$55,856	\$60,886	\$53,190	\$57,030
(14)		Percentage of Total	0.40%	0.65%	0.86%	0.53%	0.58%	0.51%	0.54%

	_	Actuarial Results Breakdown by Governmental Unit and Department	Personnel	Clerk	Election Commission	Planning	Community Development	Police	Fire
(1)		Participants							
(-)		Active	4	3	2	4	1	94	110
		Inactives	0	0	0	2	0	12	4
		Retirees	5	3	1	0	0	78	73
		Disabled Retirees	0	0	0	0	0	18	16
		Total	9	6	3	6	1	202	203
(2)		Payroll of Active Participants	\$289,158	\$187,553	\$122,723	\$374,617	\$98,722	\$7,066,963	\$8,944,145
(3)		Normal Cost							
(-)		Total Normal Cost	\$44,756	\$23,370	\$16,591	\$35,732	\$10,325	\$1,364,288	\$1,760,659
		Expected Employee Contributions	\$28,866	\$14,983	\$12,130	\$37,123	\$10,721	\$729,093	\$903,909
		Administrative Expense	\$2,607	\$1,361	\$966	\$2,081	\$601	\$79,472	\$102,563
		Net Employer Normal Cost	\$18,497	\$9,748	\$5,427	\$690	\$205	\$714,667	\$959,313
		Interest on Net Normal Cost	\$1,099	\$579	\$322	\$41	\$12	\$42,456	\$56,988
		Net Employer Normal Cost w Interest	\$19,596	\$10,327	\$5,749	\$731	\$217	\$757,123	\$1,016,301
(-)					****	*			4
(4)		Net 3(8)(c)	\$989	\$521	\$290	\$37	\$11	\$38,206	\$51,284
(5)		Actuarial Accrued Liability	\$1,725,193	\$1,476,316	\$922,159	\$1,450,112	\$352 <i>,</i> 928	\$69,491,479	\$69,864,951
(6)		Assets	\$1,196,091	\$1,023,542	\$639,341	\$1,005,375	\$244,688	\$48,179,032	\$48,437,964
(7)		Unfunded Actuarial Accrued Liability (UAAL)	\$529,102	\$452,774	\$282,818	\$444,737	\$108,240	\$21,312,447	\$21,426,987
(8)		UAAL projected to July 1, 2023	\$550,881	\$471,411	\$294,460	\$463,044	\$112,695	\$22,189,724	\$22,308,979
(9)		2003 ERI Amortization	\$3,649	\$1,754	\$722	\$1,621	\$243	\$128,301	\$122,113
(10)		Unfunded Amortization excluding ERI	\$38,988	\$33,363	\$20,840	\$32,771	\$7,976	\$1,570,440	\$1,578,880
(11)		Fiscal 2024 Cost (3f) +(4) + (9) +(10)	\$63,222	\$45,965	\$27,601	\$35,160	\$8,447	\$2,494,070	\$2,768,578
(12)		Percentage of Total	0.64%	0.46%	0.28%	0.35%	0.09%	25.17%	27.94%
(13)		Fiscal 2025 Cost	\$66,927	\$48,659	\$29,218	\$37,220	\$8,942	\$2,640,222	\$2,930,816
(14)		Percentage of Total	0.64%	0.46%	0.28%	0.35%	0.09%	25.17%	27.94%

		Actuarial Results Breakdown by Governmental Unit and Department	Inspection	Animal Control	School	DPW Highway	Health	Council on Aging	Veterans	Library
		·	-							
(1)		Participants								
		Active	5	2	283	21	7	7	2	14
		Inactives	0	0	109	4	0	0	0	5
		Retirees	7	0	140	16	10	4	3	15
		Disabled Retirees	0	0	6	2	0	0	0	0
		Total	12	2	538	43	17	11	5	34
(2)		Payroll of Active Participants	\$331,544	\$146,977	\$10,569,143	\$1,249,257	\$387,165	\$315,077	\$118,457	\$833,351
(3)		Normal Cost								
	(a)	Total Normal Cost	\$55,357	\$17,161	\$1,476,579	\$155,320	\$48,059	\$51 <i>,</i> 073	\$20,314	\$103,037
	(b)	Expected Employee Contributions	\$33,519	\$14,325	\$919,527	\$122,626	\$37,598	\$29,760	\$11,585	\$81,071
	(c)	Administrative Expense	\$3,225	\$1,000	\$86,014	\$9 <i>,</i> 048	\$2,800	\$2,975	\$1,183	\$6,002
	(d)	Net Employer Normal Cost	\$25,063	\$3,836	\$643,066	\$41,742	\$13,261	\$24,288	\$9,912	\$27,968
	(e)	Interest on Net Normal Cost	\$1,489	\$228	\$38,202	\$2,480	\$788	\$1,443	\$589	\$1,661
	(f)	Net Employer Normal Cost w Interest	\$26,552	\$4,064	\$681,268	\$44,222	\$14,049	\$25,731	\$10,501	\$29,629
(4)		Net 3(8)(c)	\$1,340	\$205	\$34,378	\$2,232	\$709	\$1,298	\$530	\$1,495
(5)		Actuarial Accrued Liability	\$2,017,076	\$779,847	\$54,504,596	\$8,734,658	\$4,327,790	\$1,742,447	\$963,691	\$5,588,601
(6)		Assets	\$1,398,456	\$540,675	\$37,788,500	\$6,055,813	\$3,000,494	\$1,208,053	\$668,135	\$3,874,625
(7)		Unfunded Actuarial Accrued Liability (UAAL)	\$618,620	\$239,172	\$16,716,096	\$2,678,845	\$1,327,296	\$534,394	\$295,556	\$1,713,976
(8)		UAAL projected to July 1, 2023	\$644,084	\$249,017	\$17,404,175	\$2,789,113	\$1,381,931	\$556,391	\$307,722	\$1,784,528
(9)		2003 ERI Amortization	\$3,025	\$746	\$87,494	\$15,342	\$6,145	\$2,719	\$1,771	\$10,815
(10)		Unfunded Amortization excluding ERI	\$45,584	\$17,624	\$1,231,752	\$197,395	\$97,804	\$39,378	\$21,778	\$126,297
(11)		Fiscal 2024 Cost (3f) +(4) + (9) +(10)	\$76,501	\$22,639	\$2,034,892	\$259,191	\$118,707	\$69,126	\$34,580	\$168,236
(12)		Percentage of Total	0.77%	0.23%	20.54%	2.62%	1.20%	0.70%	0.35%	1.70%
(13)		Fiscal 2025 Cost	\$80,984	\$23,966	\$2,154,137	\$274,380	\$125,663	\$73,177	\$36,606	\$178,095
(14)		Percentage of Total	0.77%	0.23%	20.54%	2.62%	1.20%	0.70%	0.35%	1.70%

		Actuarial Results Breakdown by					Retirement			
		Governmental Unit and Department	Recreation	Park	Forestry	Board	Wastewater	Water	Other City	
(4)										
(1)		Participants								
		Active	11	26	0	2	29	27	0	
		Inactives	0	3	0	1	2	0	0	
		Retirees	2	7	1	3	17	17	0	
		Disabled Retirees	1	1	0	0	1	2	0	
		Total	14	37	1	6	49	46	0	
(2)		Payroll of Active Participants	\$629,196	\$1,529,954	\$0	\$143,669	\$1,942,831	\$1,689,099	\$0	
(3)		Normal Cost								
	(a)	Total Normal Cost	\$85,779	\$177,046	\$0	\$19,687	\$231,333	\$206,206	\$0	
	(b)	Expected Employee Contributions	\$56,802	\$150,254	\$0	\$14,462	\$180,777	\$160,938	\$0	
	• •	Administrative Expense	\$4,997	\$10,313	\$0	\$1,147	\$13,476	\$12,012	\$0	
	(d)	Net Employer Normal Cost	\$33,974	\$37,105	\$0	\$6,372	\$64,032	\$57,280	\$0	
		Interest on Net Normal Cost	\$2,018	\$2,204	\$0	\$379	\$3,804	\$3,403	\$0	
		Net Employer Normal Cost w Interest	\$35,992	\$39,309	\$0	\$6,751	\$67,836	\$60,683	\$0	
(4)		Net 3(8)(c)	\$1,816	\$1,984	\$0	\$341	\$3,423	\$3,062	\$0	
(5)		Actuarial Accrued Liability	\$2,649,317	\$5,583,969	\$414,485	\$1,426,647	\$15,246,542	\$10,774,881	\$0	
(6)		Assets	\$1,836,794	\$3,871,413	\$287,366	\$989,106	\$10,570,557	\$7,470,317	\$0	
(7)		Unfunded Actuarial Accrued Liability (UAAL)	\$812,523	\$1,712,556	\$127,119	\$437,541	\$4,675,985	\$3,304,564	\$0	
(8)		UAAL projected to July 1, 2023	\$845,969	\$1,783,049	\$132,352	\$455,551	\$4,868,461	\$3,440,589	\$0	
(9)		2003 ERI Amortization	\$3,716	\$9,593	\$1,164	\$1,739	\$22,678	\$19,055	\$0	
(10)		Unfunded Amortization excluding ERI	\$59,872	\$126,192	\$9,367	\$32,241	\$344,557	\$243 <i>,</i> 502	\$0	
(11)		Fiscal 2024 Cost (3f) +(4) + (9) +(10)	\$101,396	\$177,078	\$10,531	\$41,072	\$438,494	\$326,302	\$0	
(12)		Percentage of Total	1.02%	1.79%	0.11%	0.41%	4.43%	3.29%	0.00%	
(13)		Fiscal 2025 Cost	\$107,338	\$187,455	\$11,148	\$43,479	\$464,190	\$345,423	\$0	
(14)		Percentage of Total	1.02%	1.79%	0.11%	0.41%	4.43%	3.29%	0.00%	