

# WORCESTER REGIONAL RETIREMENT SYSTEM

## FINANCIAL REPORTING AND DISCLOSURES Governmental Accounting Standards Board Statements 67 and 68

## Disclosures as of December 31, 2021

KMS Actuaries, LLC 52 Hunt Road Kingston, NH 03848

November, 2022





November 22, 2022

Mr. Kevin Blanchette Chairman Worcester Regional Retirement System 23 Midstate Drive, Suite 106 Auburn, MA 01501

Dear Kevin:

We are pleased to present the enclosed report providing financial reporting and disclosures under Governmental Accounting Standards Board (GASB) Statement No. 67, Financial Reporting for Pension Plans (GASB 67), and GASB Statement No. 68, Accounting and Financial Reporting for Pensions (GASB 68) for the Worcester Regional Retirement System and participating employers as of December 31, 2021. Results are based on liabilities developed in an actuarial valuation performed as of January 1, 2020 and rolled forward to the plan's measurement date of December 31, 2021.

The Principal Valuation Results are provided in Section 1. The Notes to the Financial Statements and the Required Supplementary Information are provided in Sections 2 and 3, respectively. Employer Reporting Amounts Under GASB 68 are provided in Section 4. Finally, a Glossary of Terms is provided in Section 5.

The financial reporting and disclosures contained in this report are based on the member data provided by the Worcester Regional Retirement Board, asset information reported to the Public Employee Retirement Administration Commission (PERAC) by the Retirement Board and plan provisions contained in Chapter 32 of the Massachusetts General Laws. Although we did not audit the data used in the valuation and disclosure calculations, we believe that the information is complete and reliable.

Liabilities presented in this report are based on a long-term investment return rate of 7.25%, net of investment expense, compounded annually.

This report was completed in accordance with generally accepted actuarial standards and procedures, and conforms to the Code of Professional Conduct of the American Academy of Actuaries. The actuarial assumptions used in the determination of costs are reasonably related to the experience of the Plan and to reasonable expectations, and represent our best estimate of anticipated long-term experience under the Plan.

Mr. Kevin Blanchette November 22, 2022 Page 2

Future actuarial valuation results may differ significantly from the current results presented in this report. Examples of potential sources of volatility include plan experience differing from that anticipated by the economic or demographic assumptions, the effect of new entrants, changes in economic or demographic assumptions, the effect of law changes and the delayed effect of smoothing techniques.

Our valuation follows generally accepted actuarial methods and we perform such tests as we consider necessary to assure the accuracy of the results. The amounts presented in this report have been appropriately determined according to the actuarial assumptions and methods stated herein.

This report is intended for the sole use of the Worcester Regional Retirement System and participating employers and is intended to provide information to comply with the stated purpose of the report. It may not be appropriate for other purposes.

The undersigned credentialed actuaries are Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinion contained herein. They are available to answer any questions with regard to this report.

Respectfully submitted,

Bonarman

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## **EXECUTIVE SUMMARY**

### GASB 67 and GASB 68

In June 2012, the GASB approved two related Statements that significantly changed the way pension plans and governments account and report pension liabilities. Effective for plans with fiscal years beginning after June 15, 2013, **GASB Statement No. 67**, *Financial Reporting for Pension Plans*, replaced the requirements of Statement No. 25 and effective for employers with fiscal years beginning after June 15, 2014, **GASB Statement No. 68**, *Accounting and Financial Reporting for Pensions*, replaced the requirements of Statement No. 27.

The pension standards reflect changes from those previously in place regarding how governments calculate total pension liability and pension expense. Further, the standards contain requirements for disclosing information in the notes to financial statements and presenting required supplementary information following the notes.

GASB 67 requires defined benefit pension plans, such as the Worcester Regional Retirement System, to present a statement of fiduciary net position (pension plan assets) and a statement of changes in fiduciary net position. Further, the statement requires that notes to financial statements include descriptive information such as the types of benefits provided, the classes of plan members covered and the composition of the pension plan's retirement board. Finally, GASB 67 requires pension plans to present in required supplementary information the sources of the changes in the net pension liability and information about the actuarially determined contributions compared with the actual contributions made to the plan and related ratios.

GASB 67 and GASB 68 require projected benefit payments be discounted to their actuarial present value using the single rate that reflects a long-term expected rate of return on pension plan investments to the extent that the pension plan's assets are sufficient to pay benefits and pension plan assets are expected to be invested using a strategy to achieve that return and tax-exempt, high-quality municipal bond rate to the extent that the conditions for use of the long-term expected rate of return are not met.

GASB 68 establishes standards for measuring and recognizing liabilities, deferred outflows of resources, deferred inflows of resources and pension expense by state and local governments.

The effective date for GASB 67 is for plan years beginning after June 15, 2013, which is the fiscal year ending December 31, 2014 for the Worcester Regional Retirement System. The effective date for GASB 68 is for employers' fiscal years beginning after June 15, 2014. The disclosures prepared as of December 31, 2021 (the measurement date) presents information to assist the Worcester Regional Retirement Board in providing the required information under GASB 68 to participating employers.

**GASB Statement No. 73**, Accounting and Financial Reporting for Pensions and Related Assets That Are Not within the Scope of GASB Statement 68, and Amendments to Certain Provisions of GASB Statements 67 and 68, clarifies the application of certain provisions of Statements 67 and 68 with regard to the following issues:

- Information about investment-related factors that significantly affect trends in the amounts reported for GASB 67 and GASB 68 should be limited to those factors over which the pension plan or participating governments have influence (such as an investment policy) and
- (2) The contribution-related schedules in the RSI should exclude amounts associated with payables to the pension plan that arose in a prior fiscal year.

**GASB Statement No. 82**, *Pension Issues - An Amendment of GASB Statements No. 67, No. 68, and No. 73*, clarifies the definition of covered payroll, that a deviation from the Actuarial Standards of Practice with respect to selection of assumptions is not considered to be in conformity with GASB 67, GASB 68 and GASB 73, and that employer-paid member contributions are to be classified as plan member contributions.

## **EXECUTIVE SUMMARY**

A summary of principal results from the current disclosures and prior disclosures follows.

closure Date	December 31, 2021	December 31, 2020	% Change
Valuation Date	January 1, 2020	January 1, 2020	
Membership Data			
Active Plan Members	7,121	7,137	(0.2%)
Inactive Members Currently in Receipt	4,112	3,941	4.3%
Inactive Members Deferred	2,714	2,414	12.4%
Total Plan Members	13,947	13,492	3.4%
Covered Payroll	\$316,455,433	\$321,050,145	(1.4%)
Net Pension Liability			
Discount Rate	7.25%	7.50%	
Total Pension Liability (TPL)	\$1,921,828,296	\$1,787,058,913	7.5%
Fiduciary Net Position (FNP)	1,079,814,993	898,658,766	20.2%
Net Pension Liability (NPL)	\$842,013,303	\$888,400,147	(5.2%)
FNP as % of TPL	56.2%	50.3%	11.7%
Pension Expense			
Pension Expense	\$78,810,662	\$100,873,556	(21.9%)
Deferred Outflows	\$72,402,779	\$56,206,384	
Deferred Inflows	\$136,404,861	\$68,957,576	
Recognition Period	5.71	5.71	

## **Fiduciary Net Position**

Pension plan investments are reported at market value as of the measurement date. The fiduciary net position as of the current and prior measurement dates are shown in Section 1, Fiduciary Net Position.

### **Total Pension Liability**

The Total Pension Liability is based on liabilities developed in an actuarial valuation performed as of January 1, 2020 and rolled forward to the plan's measurement date of December 31, 2021 and is shown in Section 1, Total Pension Liability.

### **Benefit Changes**

All benefit provisions remained the same from the prior measurement date. The Plan provisions used in these disclosures are detailed in Section 5, Summary of Plan Provisions, in the most recent funding actuarial report.

### **Assumption Changes**

Most of the Actuarial Assumptions and Methods used in these disclosures are the same as the last measurement date, except the investment rate of return assumption decreased from 7.50% to 7.25% and the mortality table and mortality improvement rates were updated. The Actuarial Assumptions and Methods used in these disclosures are detailed in Section 6, Actuarial Assumptions and Methods, in the most recent funding valuation report.

### Pension Expense

The Pension Expense for the fiscal year ending December 31, 2021 is \$78,810,662 and is developed in Exhibit 4.2. Pension Expense, as well as the Net Pension Liability and Deferred Outflows of Resources and Deferred Inflows of Resources, are developed for each member unit and are shown in Appendix C. Amounts by employer are developed using a proportionate share, the proportion of each employer's contribution to the aggregate amount of employer contributions, as shown in Exhibit 4.3.

### **COVID-19** Pandemic

The assumptions in this report do not reflect the potential impacts of the COVID-19 pandemic on the System. Especially in the short range, the pandemic is likely to materially affect the economic and demographic experience, in a way not anticipated by the assumptions on which the projections are based.

## Fiduciary Net Position

Asset information was provided by the Worcester Regional Retirement Board. The Trust Fund Composition, Asset Activity and the Gain or Loss on Pension Plan Investments for the current and prior fiscal years are as follows:

Fiscal Year Ended December 31		2021		2020
Trust Fund Composition	Trust Fund Composition at Fiscal Year-End			
Cash	\$	3,913,792	\$	4,386,752
Individually Owned Short Term Investments	Ψ	0,010,702	Ψ	4,000,102
Fixed Income Securities		0		0
Equities (at market value)		0		0
Pooled Short Term Funds		0		0
Pooled Domestic Equity Funds		0		0
Pooled International Equity Funds		0		0
Pooled Global Equity Funds		0		0
Pooled Domestic Fixed Income Funds		0		0
Pooled International Fixed Income Funds		0		0
Pooled Global Fixed Income Funds		0		0
Pooled Alternative/Private Equity		47,220		688,422
Pooled Real Estate Funds		0		0
Pooled Domestic Balanced Funds		0		0
Pooled International Balanced Funds		0		0
Hedge Funds		0		0
PRIT Cash		0		0
PRIT Fund	1,	082,662,154		899,736,351
Interest Due and Accrued		0		0
Prepaid Expenses		0		0
Accounts Receivable (A)		6,944,235		5,656,731
Land		0		0
Buildings		0		0
Accumulated Depreciation - Buildings		0		0
Accounts Payable (A)		(9,968,569)		(8,092,378)
Auditor or Other Adjustments		(3,783,839)		(3,717,112)
Total Market Value of Assets	\$ 1,0	079,814,993	\$	898,658,766

## **Fiduciary Net Position**

**Fiscal Year End** 

ear Ended December 31		2021		2020
Asset Activi	ty			
Market value on of hadinging of your	\$	202 652 766	\$	800 720 075
Market value as of beginning of year Contributions - employer	Φ	898,658,766 73,946,616	Ф	800,739,275 67,269,029
Contributions - member		38,567,322		35,391,500
Net investment income		177,961,091		97,497,004
Benefit payments, including refunds of member		,		.,,
contributions		(99,647,598)		(93,751,426)
Administrative expenses		(1,125,229)		(1,045,530)
Other		(8,545,975)		(7,441,086)
Market Value as of end of year		L,079,814,993	\$	898,658,766
Money-Weighted Rate of Return		19.74%		12.03%
(Ocin) (Loss on Dension D	lan			
(Gain) / Loss on Pension P	rian	investments		
Projected earnings	\$	67,386,787	\$	61,180,238

Projected earnings	\$ 67,386,787	\$ 61,180,238
Actual earnings	177,961,091	97,497,004
(Gain) / Loss on pension plan investments	\$ (110,574,304)	\$ (36,316,766)

## **Total Pension Liability**

The Total Pension Liability, developed using the Entry Age Normal funding method, is the portion of the actuarial present value of projected benefit payments that is attributed to past periods of member service. The total pension liability as of the December 31, 2021 measurement date was developed from an actuarial valuation as of January 1, 2020 and rolled forward to the pension plan's fiscal year-end.

The Service Cost is the portion of the actuarial present value of projected benefit payments that is attributed to a valuation year. Only active employees who have not reached the age at which the probability of retirement is 100% incur a service cost.

Actuarial gains and losses arise from the difference between estimates and actual experience, excluding amounts related to benefit changes and changes in assumptions or other inputs.

The development of the Total Pension Liability from the beginning of the measurement period, December 31, 2020 to the end of the measurement period, December 31, 2021 is shown below:

wicasur				
1. Tot	al Pension Liability, beginning of year:			
a.	Actives	\$	896,018,289	
b.	Retired and Disabled Members and Beneficiaries		862,552,083	
с.	Inactive Members		28,488,541	
d.	Total Pension Liability at 7.5% (a. + b. + c.)			\$ 1,787,058,913
2. Ser	rvice Cost			\$ 51,147,819
3. Bei	nefit Payments			(99,647,598)
4. Inte	erest [7.5% x (1.d. + 2. + .5 x 3)]			\$ 134,128,720
5. Cha	anges of benefit terms			-
6. Dif	ferences between expected and actual experience			-
7. Cha	anges of assumptions or other inputs			49,140,442
8. Tot	al Pension Liability, end of year (1.d. + 2. + 3. + 4. + 5	5. + 6.	+ 7.)	
a.	Actives	\$	1,051,769,797	
b.	Retired and Disabled Members and Beneficiaries		839,575,595	
с.	Inactive Members		30,482,904	
d.	Total Pension Liability at 7.25% (a. + b. + c.)			\$ 1,921,828,296

#### Worcester Regional Retirement System Disclosures as of December 31, 2021

**Measurement Date** 

December 31, 2021

## **Plan Description**

#### Plan administration

The Worcester Regional Retirement System (the "System") is a cost-sharing, multiple-employer defined benefit pension plan that provides pensions for eligible employees of 99 participating employers. The System is a member of the Massachusetts Contributory Retirement System and is governed by Chapter 32 of the Massachusetts General Laws. The System does not have the authority to amend benefit provisions.

The System is governed by a Retirement Board made up of five elected and appointed members.

#### Plan membership

At December 31, 2021, pension plan membership consisted of the following:

Inactive plan members or beneficiaries currently receiving benefits	4,112
Inactive plan members entitled to but not yet receiving benefits	2,714
Active plan members	7,121
	13,947

#### **Benefits provided**

The System provides retirement, disability and death benefits. Retirement benefits are determined as a percentage of the member's 3-year (5-year for members hired after April 1, 2012) final average compensation times the member's years of service. The percentage is based on the age of the member at retirement and his or her Group classification. Cost-of-living adjustments of 3% of the first \$16,000 of the annual retirement allowance are provided at the discretion of the System's Retirement Board. A summary of the benefits is outlined in the January 1, 2020 actuarial valuation report.

### Contributions

Plan members are required to contribute a percentage of their annual compensation that varies according to their membership date, as follows:

Prior to 1975	5% of Salary
1975 - 1983	7% of Salary
1984 – June 30, 1996	8% of Salary
July 1, 1996 – present	9% of Salary
1979 – present	An additional 2% of Salary in excess of \$30,000.
Group 1 members hired on or after April 2, 2012	6% of Salary with 30 or more years of creditable service.

Employer contributions are determined in accordance with the requirements set forth in Section 22D and Section 22F of Chapter 32 of the Massachusetts General Laws ("M.G.L."). The appropriation is comprised of the annual employer normal cost and amortization payments to pay the unfunded actuarial accrued liability.

## **Net Pension Liability**

The components of the Net Pension Liability at December 31, 2021, were as follows:

Total Pension Liability	\$ 1,921,828,296
Fiduciary Net Position	(1,079,814,993)
Net Pension Liability	\$ 842,013,303

#### **Actuarial assumptions**

The Total Pension Liability was determined by an actuarial valuation as of January 1, 2020, rolled forward to the measurement date of December 31, 2021 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.4% per year
Salary increases	Group 1: 6% - 4.25%, based on service
	Group 4: 7% - 4.75%, based on service
Investment rate of return	7.25%, net of pension plan investment expense, including inflation

Mortality rates were based on the RP-2014 Blue Collar Mortality Table with full generational mortality improvement using Scale MP-2020. For disabled lives, the mortality rates were based on the RP-2014 Blue Collar Mortality Table set forward one year with full generational mortality improvement using Scale MP-2020.

## Long-Term Real Rates of Return

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation as of December 31, 2021 (see the discussion of the pension plan's investment policy) are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rates of Return <sup>1</sup>
Global Equity	38%	4.22%
Core Fixed Income	15%	0.70%
Value-Added Fixed Income	8%	4.00%
Private Equity	15%	7.70%
Real Estate	10%	3.60%
Timberland	4%	4.20%
Portfolio Completion (PCS)	10%	3.00%
Total	100%	

<sup>1</sup> Provided by NEPC, Inc. (inclusive of fees). Inflation of 2.4% is added to the long-term expected real rates of return to approximate the long-term expected rate of return.

## **Discount Rate**

The discount rate used to measure the Total Pension Liability is 7.25%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current contribution rates and that contributions from participating employers will be made in accordance with Sections 22D and 22F of Chapter 32 of the Massachusetts General Laws. Based on those assumptions, the pension plan's Fiduciary Net Position was projected to be available to make all projected benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

### Sensitivity of the Net Pension Liability to Changes in the Discount Rate:

The following presents the Net Pension Liability calculated using the discount rate of 7.25%, as well as what the Net Pension Liability would be if it were calculated using a discount rate 1-percentage point lower (6.25%) or 1-percentage point higher (8.25%) than the current rate:

		Current	
	1% Decrease (6.25%)	Discount Rate (7.25%)	1% Increase (8.25%)
Total Pension Liability	\$ 2,141,951,516	\$ 1,921,828,296	\$ 1,735,829,254
Fiduciary Net Position	1,079,814,993	1,079,814,993	1,079,814,993
Net Pension Liability	\$ 1,062,136,523	\$ 842,013,303	\$ 656,014,261

## Exhibit 3.1 - Changes in Net Pension Liability and Related Ratios

Fiscal Year Ended December 31		2021		2020		2019		2018		2017
	Total Pension Liability									
					····,					
Service cost	\$	51,147,819	\$	47,971,080	\$	45,464,593	\$	44,445,482	\$	42,736,040
Interest		134,128,720		129,435,294		123,507,870		118,116,251		112,224,318
Changes of benefit terms Differences between expected and		-		-		-		-		-
actual experience				(23,171,133)				(8,110,737)		
Changes of assumptions		49,140,442		35,705,832		17,826,312		(8,110,737)		-
Benefit payments, including refunds		40,140,442		00,100,002		11,020,012				
of member contributions		(99,647,598)		(93,751,426)		(88,229,714)		(83,571,930)		(77,717,794)
Net change in Total Pension Liability	\$	134,769,383	\$	96,189,647	\$	98,569,061	\$	70,879,066	\$	77,242,564
Total Pension Liabilitybeginning	\$1	L,787,058,913	\$1	,690,869,266	\$1	L,592,300,205	\$1	1,521,421,139	\$1	1,444,178,575
Total Pension Liabilityending (a)	\$2	L,921,828,296	\$1	1,787,058,913	\$2	L,690,869,266	\$1	1,592,300,205	\$1	1,521,421,139
			<b>C</b> ;	ducion/Not Doci	Hon					
			ГІ	duciary Net Posi	uon					
Contributionsemployer	\$	73,946,616	\$	67,269,029	\$	60,887,972	\$	55,674,504	\$	50,599,326
Contributionsmember		38,567,322		35,391,500		35,087,583		33,362,836		31,592,837
Net investment income		177,961,091		97,497,004		110,458,217		(17,770,572)		103,123,070
Benefit payments, including refunds										
of member contributions		(99,647,598)		(93,751,426)		(88,229,714)		(83,571,930)		(77,717,794)
Administrative expenses		(1,125,229)		(1,045,530)		(1,112,640)		(1,178,272)		(1,145,509)
Other		(8,545,975)		(7,441,086)		(1,890,156)		(6,971,840)		(7,043,455)
Net change in Fiduciary Net Position	\$	181,156,227	\$	97,919,491	\$		\$	(20,455,274)	\$	99,408,475
		- , ,	•		•	-, -, -	•		•	,, -
Fiduciary Net Positionbeginning	\$	898,658,766	\$	800,739,275	\$	685,538,013	\$	705,993,287	\$	606,584,812
Fiduciary Net Positionending (b)	\$1	L,079,814,993	\$	898,658,766	\$	800,739,275	\$	685,538,013	\$	705,993,287
					_				_	
		Net Pe	ensio	n Liability and Re	elate	d Ratios				
Net Pension Liabilityending (a) (b)	ተ	842 012 202	¢	888,400,147	¢	890,129,991	¢	906.762.192	¢	915 407 950
Net Pension Liabilityending (a) (b)	φ	842,013,303	\$	888,400,147	\$	890,129,991	\$	900,702,192	φ	815,427,852
Fiduciary Net Position as a										
percentage of the Total Pension Liability		FC 40%		F0 00%		47.36%		42.05%		46.40%
Liability		56.19%		50.29%		47.30%		43.05%		40.40%
Covered Payroll	\$	316,455,433	\$	321,050,145	\$	301,686,927	\$	273,888,022	\$	271,037,131
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Net Pension Liability as a										
percentage of Covered Payroll		266.08%		276.72%		295.05%		331.07%		300.85%
- •										

## Exhibit 3.1 - Changes in Net Pension Liability and Related Ratios (continued)

Fiscal Year Ended December 31		2016		2015		2014	2013	2012
			То	tal Pension Liab	ility			
Service cost	\$	35,984,130	\$	31,996,981	\$	31,996,981		
Interest		99,124,367		91,276,045		84,568,061		
Changes of benefit terms		-	\$	49,721,211	\$	-		
Differences between expected and								
actual experience		8,235,183		-		-		
Changes of assumptions		94,194,565	\$	31,534,870	\$	-		
Benefit payments, including		(70, 700, 075)		(00.000.450)		(01 000 000)		
refunds of member contributions	. <b>ф</b>	(72,799,275)	<u>۴</u>	(68,086,158)	¢	(61,338,289)		
Net change in Total Pension Liability	\$	164,738,970	\$	136,442,949	\$	55,226,753		
	<b>.</b>	070 400 005	<b>•</b> •		• •	007 700 000		
Total Pension Liability-beginning		1,279,439,605		L,142,996,656		L,087,769,903		
Total Pension Liabilityending (a)	<b>ф</b> .	,444,178,575	ф 1	L,279,439,605	<u></u>	L,142,996,656		
			Fic	duciary Net Posit	tion			
Contributionsemployer	\$	48,574,831	\$	44,986,040	\$	39,519,038		
Contributionsmember		29,032,767		52,111,046		27,066,085		
Net investment income		40,509,286	\$	1,177,960	\$	40,135,521		
Benefit payments, including								
refunds of member contributions		(72,799,275)		(68,086,158)		(61,338,289)		
Administrative expenses		(1, 170, 184)	\$	(1,055,662)	\$	(1,054,297)		
Other		(7,195,247)		(7,429,438)		(3,178,354)		
Net change in Fiduciary Net Position	\$	36,952,178	\$	21,703,788	\$	41,149,704		
Fiduciary Net Positionbeginning	\$	569,632,634	\$	547,928,846	\$	506,779,142		
Fiduciary Net Position-ending (b)	\$	606,584,812	\$	569,632,634	\$	547,928,846		
	_							
		Net Pe	ensior	n Liability and Re	elated	Ratios		
Net Pension Liabilityending (a) (b	\$	837,593,763	\$	709,806,971	\$	595,067,810		
Fiduciary Net Position as a								
percentage of the Total Pension								
Liability		42.00%		44.52%		47.94%		
Covered Payroll	\$	282,918,805	\$	269,899,678	\$	252,829,591		
Net Pension Liability as a		000 050						
percentage of Covered Payroll		296.05%		262.99%		235.36%		

Note: Only 8 years are presented here and on the previous page, beginning with the year of implementation; 10 years of information will be required.

## Exhibit 3.2 - Schedule of Employer Contributions

Fiscal Year Ended December 31	2021	2020	2019	2018	2017
Actuarially Determined Contribution	\$ 73,946,616	\$ 67,269,029	\$ 60,887,972	\$ 55,674,504	\$ 50,599,326
Contributions in relation to the					
Actuarially Determined Contribution	73,946,616	67,269,029	60,887,972	55,674,504	50,599,326
Contribution deficiency (excess)	\$-	\$-	\$-	\$-	\$-
Covered Payroll	\$ 316,455,433	\$ 321,050,145	\$ 301,686,927	\$ 273,888,022	\$ 271,037,131
Covered Payroll Contributions as a percentage of Covered Payroll	\$ 316,455,433 23,37%	\$ 321,050,145 20.95%	\$ 301,686,927 20.18%	\$ 273,888,022 20,33%	\$ 271,037,131 18.67%

The contribution shown above, \$73,946,616, represents the actual contributions made by member units of the Worcester Regional Retirement System for the 2022 fiscal year.

## Exhibit 3.2 - Schedule of Employer Contributions (continued)

Fiscal Year Ended December 31	2016	2015	2014	2013	2012
Actuarially Determined Contribution	\$ 48,574,831	\$ 44,986,040	\$ 39,519,038		
Contributions in relation to the Actuarially Determined Contribution	48,574,831	\$ 44.986.040	\$ 39,519,038		
Contribution deficiency (excess)	\$ -	\$ -	\$ -		
Covered Payroll	\$ 282,918,805	\$ 269,899,678	\$ 252,829,591		
Contributions as a percentage of Covered Payroll	17.17%	16.67%	15.63%		

Note: Only 8 years are presented here and on the previous page, beginning with the year of implementation; 10 years of information will be required.

			Exhibit 3.3	3 - Investme	ent Returns					
Fiscal Year Ended December 31	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Annual money-weighted rate of return, net of investment expense	19.74%	12.03%	16.55%	-2.75%	16.71%	7.06%	0.05%	7.79%		

The money-weighted rate of return considers the changing amounts actually invested during a period and weights the amount of pension plan investments by the proportion of time they are available to earn a return during that period. The rate of return is then calculated by solving, through an iterative process, for the rate that equates the sum of the weighted external cash flows into and out of the pension plan investments to the ending fair value of pension plan investments.

Appendix A shows the details of the calculation of the money-weighted rate of return for the current fiscal year.

Note: Only 8 years are presented here, beginning with the year of implementation; 10 years of information will be required.

### Notes to the Required Supplementary Information

### Changes of benefit terms

All benefit provisions remained the same from the prior measurement date. The Plan provisions used in these disclosures are detailed in Section 5, Summary of Plan Provisions, in the most recent funding actuarial report.

#### **Changes of assumptions**

Most of the Actuarial Assumptions and Methods used in these disclosures are the same as the last measurement date, except the investment rate of return assumption decreased from 7.50% to 7.25% and the mortality table and mortality improvement rates were updated. The Actuarial Assumptions and Methods used in these disclosures are detailed in Section 6, Actuarial Assumptions and Methods, in the most recent funding valuation report.

#### Methods and assumptions used in calculations of Actuarially Determined Contributions

The Actuarially Determined Contributions in the schedule of employers' contributions shown in Exhibit 4.3 are calculated as of July 1 of the fiscal year in which contributions are reported. The following actuarial methods and assumptions were used to determine contributions reported in that schedule:

Valuation date	January 1, 2	2020
Actuarial cost method	Entry Age No	ormal
Amortization method	UAAL	Increasing dollar amount at 4% to reduce the Unfunded Actuarial Accrued Liability to zero on or before June 30, 2036. The annual increase in appropriation is further limited to 9.95%.
	2002, 2003 ERI	Increasing dollar amount at 4.5% to reduce the 2002 and 2003 ERI Actuarial Accrued Liability to zero on or before June 30, 2028.
Asset valuation method		al Value of Assets is the market value of assets as of the ate reduced by the sum of:
	a) b) c) d)	<ul><li>80% of gains and losses of the prior year,</li><li>60% of gains and losses of the second prior year,</li><li>40% of gains and losses of the third prior year, and</li><li>20% of gains and losses of the fourth prior year.</li></ul>
	deficiency o market val	gains and losses are determined by the excess or of the expected return over the actual return on the ue. The actuarial valuation of assets is further to be not less than 80% or more than 120% of market

## Notes to the Required Supplementary Information

Inflation	2.4% per year
Salary increases	Group 1: 6% - 4.25%, based on service Group 4: 7% - 4.75%, based on service
Payroll growth	3.5% per year
Investment rate of return	7.65%, net of pension plan investment expense, including inflation.

## Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from differences between expected and actual experience are recognized in Pension Expense over the average expected remaining service life of all active and inactive members.

					Balances at December 31, 2021		
	Experience Losses	Experience Gains	Amounts Recognized in Pension Expense through December 31, 2021	Deferred Outflows of Resources	Deferred Inflows of Resources		
Year	(a)	(b)	(C)	(a) - (c)	(b) + (c)		
2016	\$ 8,235,183	\$-	\$ 8,235,183	\$-	\$-		
2017	-	-	-	-	-		
2018	-	8,110,737	(5,555,300)	-	2,555,437		
2019	-	-	-	-	-		
2020	-	23,171,133	(8,115,984)	-	15,055,149		
2021	-	-	-	-	-		
Total				\$-	\$ 17,610,586		

Deferred Outflows of Resources and Deferred Inflows of Resources arising from changes of assumptions are recognized in Pension Expense over the average expected remaining service life of all active and inactive members.

					nces at r 31, 2021
	Increases in the Total Pension Liability	Decreases in the Total Pension Liability	Amounts Recognized in Pension Expense through December 31, 2021	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(C)	(a) - (c)	(b) + (c)
2016	\$ 94,194,565	\$-	\$ 94,194,565	\$-	\$-
2017	-	-	-	-	-
2018	-	-	-	-	-
2019	17,826,312	-	9,157,353	8,668,959	-
2020	35,705,832	-	12,506,422	23,199,410	-
2021	49,140,442	-	8,606,032	40,534,410	-
Total				\$ 72,402,779	\$-

## Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from differences between projected and actual earnings on Pension Plan investments are recognized in Pension Expense over five years.

					nces at r 31, 2021
	Investment Earnings Less Than Projected	Investment Earnings Greater Than Projected	Amounts Recognized in Pension Expense through December 31, 2021	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(C)	(a) - (c)	(b) + (c)
2016	\$ 3,499,405	\$-	\$ 3,499,405	\$-	\$-
2017	-	56,256,688	(56,256,688)	-	-
2018	72,217,350	-	57,773,880	14,443,470	-
2019	-	57,470,605	(34,482,363)	-	22,988,242
2020	-	36,316,766	(14,526,706)	-	21,790,060
2021	-	110,574,304	(22,114,861)	-	88,459,443
Subtotal				\$ 14,443,470	\$133,237,745
Net				\$-	\$118,794,275

## Exhibit 4.1 - Deferred Outflows of Resources and Deferred Inflows of Resources

Deferred Outflows of Resources and Deferred Inflows of Resources arising from changes in proportion and differences between employer contributions and proportionate share of contributions are recognized in Pension Expense over the average expected remaining service life of all active and inactive members.

					ces at ^ 31, 2021
	Proportionate Share* Outflows	Proportionate Share* Inflows	Amounts Recognized in Pension Expense through December 31, 2021	Deferred Outflows of Resources	Deferred Inflows of Resources
Year	(a)	(b)	(C)	(a) - (c)	(b) - (c)
2016	\$ 1,803,974	\$ 1,803,974	\$ 1,803,974	\$-	\$-
2017	22,317,342	22,317,342	19,042,099	3,275,243	3,275,243
2018	2,319,170	2,319,170	1,588,474	730,696	730,696
2019	12,790,409	12,790,409	6,570,419	6,219,990	6,219,990
2020	2,440,894	2,440,894	854,953	1,585,941	1,585,941
2021	15,038,822	15,038,822	2,633,768	12,405,054	12,405,054
Total				\$ 24,216,924	\$ 24,216,924

\* Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions

Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources will be recognized in Pension Expense as follows:

Year ended December 31	
2022	\$ (13,963,988)
2023	\$ (28,185,245)
2024	\$ (16,012,907)
2025	\$ (11,950,224)
2026	\$ 6,110,282
Thereafter	\$ -
Total Deferred Outflows	\$ 96,619,703
Total Deferred Inflows	\$ 160,621,785

### Exhibit 4.2 - Pension Expense

The Pension Expense and deferred outflows and inflows of resources primarily result from changes in the components of the net pension liability (NPL). Most changes in the NPL are included in the Pension Expense in the period of the change, including service cost, interest on total pension liability, changes in benefit terms and projected earnings on the pension plan's investments. Other changes in the net pension liability are included in Pension Expense over the current and future periods. These include the effects on the total pension liability of changes of economic and demographic assumptions and differences between expected and actual experience. In addition, the effect on the net pension liability of differences between the projected earnings on pension plan investments and actual experience with regard to those earnings are included in Pension Expense over the current and future periods. The Pension Expense for the reporting period ending December 31, 2021 is presented below:

#### Fiscal Year Ended December 31, 2021

1.	Ser	vice cost		\$ 51,147,819
2.	Inte	erest on the total pension liability		
	a.	Total Pension Liability, beginning of year	1,787,058,913	
	b.	Service cost, beginning of year	51,147,819	
	с.	Benefit payments, including refunds of employee contributions	(99,647,598)	
	d.	Interest on Total Pension Liability		134,128,720
3.	Dif	ferences between expected and actual experience		(4,238,239)
4.	Cha	anges of benefit terms		-
5.	Cha	anges of assumptions		31,735,469
6.	Em	ployee contributions		(38,567,322)
7.	Pro	jected earnings on pension plan investments		
	a.	Fiduciary Net Position, beginning of year	898,658,766	
	b.	Employer contributions	73,946,616	
	с.	Employee contributions	38,567,322	
	d.	Benefit payments, including refunds of employee contributions	(99,647,598)	
	e.	Administrative expenses and other	(9,671,204)	
	f.	Total projected earnings		(67,386,787)
8.	Dif	ferences between projected and actual earnings on		
	pla	n investments		(37,680,202)
9.	Per	nsion plan administrative expenses		1,125,229
10.	Oth	er changes in Fiduciary Net Position		8,545,975
11.	Tot	al Pension Expense		\$ 78,810,662

	20	21	2020			
Entity	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution		
Ashburnham	1,035,010	1.399672%	880,527	1.308963%		
Ashburnham-Westminster Regional	791,626	1.070537%	725,901	1.079101%		
Athol	1,802,550	2.437637%	1,633,931	2.428950%		
Athol Housing Authority	44,249	0.059839%	38,518	0.057260%		
Athol-Royalston Regional	670,136	0.906243%	621,513	0.923921%		
Auburn	3,900,522	5.274781%	3,559,783	5.291860%		
Auburn Housing Authority	77,473	0.104769%	70,867	0.105349%		
Auburn Water District	118,050	0.159642%	101,938	0.151538%		
Barre	410,048	0.554519%	357,853	0.531973%		
Barre Housing Authority	30,207	0.040850%	20,935	0.031121%		
Berlin	551,425	0.745707%	533,288	0.792769%		
Berlin-Boylston Regional	319,456	0.432009%	178,269	0.265009%		
Blackstone	920,201	1.244413%	928,294	1.379972%		
Blackstone Housing Authority	18,702	0.025291%	19,306	0.028700%		
Blackstone-Millville Regional	610,102	0.825057%	581,897	0.865030%		
Bolton	602,296	0.814501%	520,648	0.773979%		
Boylston	705,353	0.953868%	723,109	1.074951%		
Boylston Water District	14,790	0.020001%	13,583	0.020192%		
Brookfield	364,534	0.492969%	314,618	0.467701%		
Charlton	1,725,580	2.333548%	1,491,343	2.216983%		
Cherry Valley-Rochdale Water	65,335	0.088354%	60,980	0.090651%		
Cherry Valley Sewer District	-	0.000000%	-	0.00000%		
Douglas	1,277,098	1.727054%	1,192,372	1.772542%		
Dudley	1,091,367	1.475885%	955,135	1.419873%		
Dudley Housing Authority	22,528	0.030465%	17,758	0.026398%		
Dudley-Charlton Regional	1,229,539	1.662739%	1,129,966	1.679772%		
East Brookfield	185,493	0.250847%	169,117	0.251404%		
Grafton	2,348,007	3.175273%	2,074,425	3.083774%		
Grafton Housing Authority	55,802	0.075463%	56,940	0.084645%		
Hardwick	218,312	0.295229%	210,913	0.313537%		
Harvard	1,128,337	1.525881%	1,001,439	1.488707%		
Hillcrest Water District	10,010	0.013537%	3,994	0.005937%		

	20	21	2020			
Entity	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution		
Holden	2,690,938	3.639028%	2,391,040	3.554444%		
Holden Housing Authority	23,264	0.031461%	36,390	0.054096%		
Hopedale	1,201,711	1.625106%	1,067,572	1.587019%		
Hopedale Housing Authority	3,365	0.004551%	5,723	0.008508%		
Hubbardston	323,533	0.437522%	273,567	0.406676%		
Lancaster	760,156	1.027979%	728,019	1.082250%		
Lancaster Housing Authority	15,694	0.021223%	17,401	0.025868%		
Lancaster Sewer	2,778	0.003757%	2,172	0.003229%		
Leicester	1,556,343	2.104685%	1,456,243	2.164805%		
Leicester Housing Authority	60,068	0.081232%	52,455	0.077978%		
Leicester Water District	56,036	0.075779%	53,115	0.078959%		
Lunenburg	1,531,070	2.070507%	1,502,144	2.233040%		
Lunenburg Housing Authority	2,372	0.003208%	1,816	0.002700%		
Lunenburg Water District	66,753	0.090272%	66,460	0.098797%		
Mendon	828,542	1.120460%	717,711	1.066926%		
Mendon-Upton Regional	924,930	1.250808%	855,158	1.271251%		
Millbury	2,200,435	2.975708%	2,027,136	3.013476%		
Millbury Housing Authority	115,397	0.156054%	107,298	0.159506%		
Millville	211,847	0.286486%	189,731	0.282048%		
Narragansett Regional	565,061	0.764147%	440,722	0.655163%		
Nashoba Regional	1,210,965	1.637621%	1,146,017	1.703632%		
Nashoba Valley Dispatch	56,172	0.075963%	42,695	0.063469%		
New Braintree	65,854	0.089056%	64,267	0.095537%		
Northboro	2,548,279	3.446106%	2,356,175	3.502615%		
Northboro Housing Authority	81,206	0.109817%	75,236	0.111843%		
Northboro-Southboro Regional	518,953	0.701794%	434,691	0.646198%		
North Brookfield	661,563	0.894649%	568,015	0.844393%		
North Brookfield Housing Authority	21,896	0.029611%	18,365	0.027301%		
Oakham	77,089	0.104250%	78,584	0.116820%		
Oxford	2,476,316	3.348789%	2,188,260	3.252998%		
Oxford Housing Authority	85,990	0.116287%	83,797	0.124570%		
Oxford-Rochdale Sewer District	42,156	0.057009%	37,828	0.056234%		

	20	21	2020			
Entity	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution		
Paxton	914,200	1.236297%	837,612	1.245167%		
Petersham	185,492	0.250846%	174,811	0.259868%		
Phillipston	150,222	0.203149%	149,318	0.221971%		
Princeton	471,980	0.638271%	408,817	0.607734%		
Quabbin Regional	1,230,031	1.663404%	1,147,408	1.705700%		
Quaboag Regional	435,854	0.589417%	401,099	0.596261%		
Royalston	65,881	0.089093%	63,203	0.093956%		
Rutland	775,974	1.049371%	684,053	1.016891%		
Southboro	2,321,536	3.139476%	2,170,625	3.226782%		
Southboro Housing Authority	30,823	0.041683%	16,500	0.024528%		
Spencer	1,092,846	1.477885%	978,163	1.454106%		
Spencer-East Brookfield Regional	714,866	0.966733%	667,641	0.992494%		
Spencer Housing Authority	61,064	0.082578%	51,695	0.076848%		
Sterling	1,256,404	1.699069%	1,196,875	1.779236%		
Sterling Housing Authority	11,448	0.015481%	6,246	0.009285%		
Sturbridge	1,674,824	2.264910%	1,501,694	2.232371%		
Sutton	1,419,336	1.919406%	1,314,568	1.954195%		
Tantasqua Regional	819,211	1.107841%	794,242	1.180695%		
Templeton	964,560	1.304400%	887,221	1.318915%		
Templeton Housing Authority	54,770	0.074067%	46,383	0.068951%		
Upton	757,724	1.024691%	696,704	1.035698%		
Uxbridge	2,194,484	2.967660%	2,051,032	3.048999%		
Uxbridge Housing Authority	69,494	0.093979%	59,854	0.088977%		
Wachusett Regional	2,350,170	3.178198%	2,081,419	3.094171%		
Warren	462,757	0.625799%	402,654	0.598573%		
Warren Water District	22,179	0.029993%	19,509	0.029001%		
Westboro	5,057,623	6.839560%	4,500,066	6.689655%		
Westboro Housing Authority	56,435	0.076319%	51,300	0.076261%		
West Boylston	1,514,443	2.048022%	1,432,352	2.129289%		
West Boylston Housing Authority	18,422	0.024913%	6,244	0.009282%		
West Boylston Water District	76,511	0.103468%	73,490	0.109248%		
West Brookfield	336,330	0.454828%	322,339	0.479179%		

	20	21	20	2020		
Entity	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution		
Westminster	1,039,322	1.405503%	963,834	1.432805%		
Winchendon	1,865,573	2.522865%	1,706,683	2.537101%		
Winchendon Housing Authority	142,957	0.193325%	128,412	0.190893%		
Total	73,946,616	100.000000%	67,269,029	100.000000%		

### Exhibit 4.4 - Pension Amounts by Employer

The Schedule of Pension Amounts by Employer is provided in Appendix C. The schedule shows the Net Pension Liability, the various categories of Deferred Outflows of Resources and Deferred Inflows of Resources and Pension Expense for each employer. The schedule includes the differences between expected and actual experience, differences between projected and actual investment earnings and changes of assumptions. Further, each employer is required to recognize Deferred Outflows of Resources and Deferred Inflows of Resources related to (1) the net impact from changes in proportion between periods and (2) differences between actual contributions made by an employer and their proportionate share of contributions.

Each employer's allocation of Pension Expense and Net Pension Liability can be based on the proportion of its contributions to the aggregate amount of employer contributions.

Under GASB 68, gains and losses (investment, experience or assumption changes) and changes in employer's proportionate shares related to pensions are recognized in Pension Expense systematically over time.

The first amortized amounts are recognized in Pension Expense for the year the gain or loss occurs. The remaining amounts are categorized as Deferred Inflows and Deferred Outflows to be recognized in future Pension Expense.

The amortization period differs depending on the source of the gain or loss:

Difference between projected and actual earnings	5 year straight-line amortization
All other amounts	Straight-line amortization over the average expected remaining service lives of all members that are provided with benefits (actives, inactives and retirees) as of the beginning of the measurement period

### For 2021:

- Net Pension Liability, Deferred Outflows of Resources, Deferred Inflows of Resources and Pension Expense are allocated to each employer based on its proportionate share of Total Employer Contribution shown in Exhibit 4.3.
- The difference between expected and actual experience is amortized over the average of the expected future service lives of all participants, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in Pension Expense in 2015.
- Net difference between projected and actual investment earnings (gain on pension plan investments for 2021) is amortized over 5 years, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in Pension Expense in 2014.
- The change in Total Pension Liability as a result of changes in assumptions is amortized over the average of the expected future service lives of all participants, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in Pension Expense in 2015.

### Exhibit 4.4 - Pension Amounts by Employer

### For 2021 (continued):

- There are no differences between employer contributions and the proportionate share of contributions because the Plan utilizes employer contributions as the method of allocation.
- The net effect of the change in the employer's proportionate shares of the collective Net Pension Liability, collective Deferred Outflows and Deferred Inflows is amortized over the average expected remaining service lives of all members, with the first amortized amount recognized in Pension Expense in the current year. Similar Deferred Outflows of Resources and Deferred Inflows of Resources were established during prior years, with the first amortized amount recognized in 2015.
- No adjustments have been made for employer contributions made subsequent to the measurement date as defined in paragraph 57 of GASB 68.

## **SECTION 5 - GLOSSARY OF TERMS**

Actuarial Assumptions – Assumptions, based upon past experience or standard tables, used to predict the occurrence of future events affecting the commencement, amount and duration of pension benefits, such as: changes in compensation, mortality, withdrawal, disablement and retirement; rates of investment earnings and asset appreciation or depreciation; and any other relevant items.

Actuarial Cost Method (or Funding Method) – A procedure for allocating the Actuarial Present Value of projected benefit payments to the current year (Service Cost) and the past (Total Pension Liability).

Actuarial (Experience) Gain or Loss – A measure of the difference between actual experience and that expected based upon the set of Actuarial Assumptions during the period between the valuation date and the most recent immediately preceding valuation date.

Actuarial Present Value of Projected Benefit Payments – The dollar value on the valuation date of all benefits expected to be paid to current members based upon the Actuarial Assumptions and the terms of the Plan.

Actuarially Determined Contribution – A target or recommended contribution to a defined benefit pension plan for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.

Actuarial Valuation Date – The date as of which an actuarial valuation is performed. This date may be up to 24 months prior to the measurement date and up to 30 months prior to the employer's reporting date.

Covered Payroll – The payroll on which contributions to a pension plan are based.

**Deferred Inflow of Resources** – Acquisition of resources by a government that is applicable to future reporting periods. Under GASB 68, deferred inflows of resources are made up of experience gains, assumption changes reducing the Total Pension Liability and investment gains that are recognized in future reporting periods.

**Deferred Outflow of Resources** – Consumption of resources by a government that is applicable to future reporting periods. Under GASB 68, deferred outflows of resources are made up of experience losses, assumption changes increasing the Total Pension Liability and investment losses that are recognized in future reporting periods.

**Discount Rate** – Single rate of return that, when applied to all projected benefit payments, results in an actuarial present value of projected benefit payments equal to the sum of:

- (1) a long-term expected rate of return on pension plan investments to the extent that the pension plan's assets are sufficient to pay benefits and pension plan assets are expected to be invested using a strategy to achieve that return and
- (2) a tax-exempt, high-quality municipal bond rate to the extent that the conditions for use of the long-term expected rate of return are not met.

Entry Age Normal Actuarial Cost Method – A method under which the actuarial present value of the projected benefits of each individual in an actuarial valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age.

## **SECTION 5 - GLOSSARY OF TERMS**

Fiduciary Net Position - The fair market value of assets as of the measurement date.

Funded Ratio – The Actuarial Value of Assets expressed as a percentage of the Actuarial Accrued Liability.

GASB – Governmental Accounting Standards Board.

**Long-Term Expected Rate of Return** – Long-term expected rate of return on pension plan investments expected to be used to finance the payment of benefits, net of investment expenses.

Measurement Date - The date as of which the Total Pension Liability and Fiduciary Net Position are measured.

**Municipal Bond Rate** – Yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher.

**Net Pension Liability** – The liability of the employer for benefits provided through a defined benefit pension plan. It is calculated as the Total Pension Liability less the Fiduciary Net Position.

**Present Value of Future Benefits** – The actuarial present value of the cost to finance benefits payable in the future, discounted to reflect the expected effects of the time value of money and the probabilities of payment.

Reporting Date - The last day of the Plan or employer's fiscal year.

Service Cost – The portion of the actuarial present value of projected benefit amounts that is attributed to a valuation year.

**Total Pension Liability** – The portion of the actuarial present value of projected benefit amounts that is attributed to past periods of employee service using the Entry Age Normal cost method based on the requirements of GASB 67 and GASB 68.

Unfunded Actuarial Accrued Liability – The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets.

## APPENDIX A - CALCULATION OF MONEY-WEIGHTED RATE OF RETURN

	Plan Investments/ Net External Cash Flows (a)	Periods Invested (b)	Period Weight (c)=(b)÷12	(d)=(a) x (1+r <sub>mw</sub> ) <sup>(c)</sup>
Beginning value - January 1, 2021	\$ 898,658,766	12	1.00	\$ 1,076,061,906
Monthly net external cash flows:				
January	(4,022,974)	11	0.92	(4,745,363)
February	(6,124,417)	10	0.83	(7,116,505)
March	(5,249,302)	9	0.75	(6,008,740)
April	(6,264,676)	8	0.67	(7,064,155)
May	(4,540,381)	7	0.58	(5,043,520)
June	(4,050,896)	6	0.50	(4,432,741)
July	63,443,972	5	0.42	68,389,808
August	(5,055,002)	4	0.33	(5,367,872)
September	(7,171,873)	3	0.25	(7,502,279)
October	(4,909,549)	2	0.17	(5,059,202)
November	(6,081,566)	1	0.08	(6,173,559)
December	(6,122,785)	0	0.00	(6,122,785)
Ending value - December 31, 2021				\$ 1,079,814,993
Money-weighted rate of return				19.74%

Note: Beginning and ending values are based on amounts reported in the System's 2021 Annual Statement with GAAP adjustments for 3(8)(c) amounts due to the Commonwealth, and monthly cash flows are based on amounts provided by the Retirement Board.

## APPENDIX B - SCHEDULE OF DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES

Year	Differences between Expected and Actual Experience	Recognition Period (Years)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2016	8,235,183	5.86	1,208,578	-	-	-	-	-	-	-	-	-
2017	-	5.86	-	-	-	-	-	-	-	-	-	-
2018	(8,110,737)	5.84	(1,388,825)	(1,388,825)	(1,166,612)	-	-	-	-	-	-	-
2019	-	5.84	-	-	-	-	-	-	-	-	-	-
2020	(23,171,133)	5.71	(4,057,992)	(4,057,992)	(4,057,992)	(4,057,992)	(2,881,173)	-	-	-	-	-
2021	-	5.71	-	-	-	-	-	-	-	-	-	-
Net Increa	ase (Decrease) in Pension	Expense	(4,238,239)	(5,446,817)	(5,224,604)	(4,057,992)	(2,881,173)	-	-	-	-	-

Year	Changes of Assumptions	Recognition Period (Years)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2016	94,194,565	5.86	13,823,775	-	-	-	-	-	-	-	-	-
2017	-	5.86	-	-	-	-	-	-	-	-	-	-
2018	-	5.84	-	-	-	-	-	-	-	-	-	-
2019	17,826,312	5.84	3,052,451	3,052,451	3,052,451	2,564,057	-	-	-	-	-	-
2020	35,705,832	5.71	6,253,211	6,253,211	6,253,211	6,253,211	4,439,777	-	-	-	-	-
2021	49,140,442	5.71	8,606,032	8,606,032	8,606,032	8,606,032	8,606,032	6,110,282	-	-	-	-
Net Increas	e (Decrease) in Pension	Expense	31,735,469	17,911,694	17,911,694	17,423,300	13,045,809	6,110,282	-	-	-	-

#### APPENDIX B - SCHEDULE OF DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES

Year	Differences between Projected and Actual Earnings on Pension Plan Investments	Recognition Period (Years)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2016	3,499,405	5	-	-	-	-	-	-	-	-	-	-
2017	(56,256,688)	5	(11,251,337)	-	-	-	-	-	-	-	-	-
2018	72,217,350	5	14,443,470	14,443,470	-	-	-	-	-	-	-	-
2019	(57,470,605)	5	(11,494,121)	(11,494,121)	(11,494,121)	-	-	-	-	-	-	-
2020	(36,316,766)	5	(7,263,353)	(7,263,353)	(7,263,353)	(7,263,354)	-	-	-	-	-	-
2021	(110,574,304)	5	(22,114,861)	(22,114,861)	(22,114,861)	(22,114,861)	(22,114,860)	-	-	-	-	-
Net Increa	ase (Decrease) in Pension	Expense	(37,680,202)	(26,428,865)	(40,872,335)	(29,378,215)	(22,114,860)	-	-	-	-	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Ashburnham
♦ Current Proportionate Share				1.399672%
♦ Prior Proportionate Share				1.308963%
Beginning Net Pension Liability	\$	888,400,147	\$	11,628,833
Ending Net Pension Liability	\$	842,013,303	\$	11,785,424
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,013,401 763,788
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,777,189
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	246,490 1,662,730
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 88,389
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,997,609
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,103,091 215,492
Total Employer Pension Expense	\$	78,810,662	\$	1,318,583
Covered Payroll:	\$	316,455,433	\$	3,686,781
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rato \$ \$ \$	e: 842,013,303 1,062,136,523 656,014,261	\$ \$	11,785,424 14,866,426 9,182,047
Deferred Outflows of Resources and Deferred Inflows of Resou	roop Dr	and in Euture I	Donaia	n Expanse
◆ 2022	s	(13,963,988)	\$	6,614
◆ 2022 ◆ 2023	э \$	(28,185,245)	э \$	(281,156)
◆ 2024	↓ \$	(16,012,907)	↓ \$	(103,654)
◆ 2025	\$	(11,950,224)	\$	(29,389)
♦ 2026	\$	6,110,282	\$	187,165
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Ashburnham- Westminster Regional		
♦ Current Proportionate Share				1.070537%	
<ul> <li>Prior Proportionate Share</li> </ul>				1.079101%	
Beginning Net Pension Liability	\$	888,400,147	\$	9,586,738	
Ending Net Pension Liability	\$	842,013,303	\$	9,014,065	
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 775,099 69,874	
Total Deferred Outflows of Resources	\$	96,619,703	\$	844,973	
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	188,528 1,271,737	
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 87,765	
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,548,030	
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	843,697 57,303	
Total Employer Pension Expense	\$	78,810,662	\$	901,000	
Covered Payroll:	\$	316,455,433	\$	4,212,845	
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 0.25%</li> </ul>	\$ \$	842,013,303 1,062,136,523	\$ \$	9,014,065 11,370,566	
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	7,022,876	
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:	
♦ 2022	\$	(13,963,988)	\$	(102,065)	
♦ 2023	\$	(28,185,245)	\$	(323,480)	
♦ 2024	\$	(16,012,907)	\$	(189,328)	
♦ 2025	\$	(11,950,224)	\$	(144,003)	
◆ 2026 • Thereafter	\$ ¢	6,110,282	\$ ¢	55,819	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Athol
♦ Current Proportionate Share				2.437637%
♦ Prior Proportionate Share				2.428950%
Beginning Net Pension Liability	\$	888,400,147	\$	21,578,794
Ending Net Pension Liability	\$	842,013,303	\$	20,525,227
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,764,917 269,436
Total Deferred Outflows of Resources	\$	96,619,703	\$	2,034,353
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	429,282 2,895,773
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 1,202,778
Total Deferred Inflows of Resources	\$	160,621,785	\$	4,527,833
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,921,118 (1,304,827)
Total Employer Pension Expense	\$	78,810,662	\$	616,291
Covered Payroll:	\$	316,455,433	\$	6,272,259
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	9:		
<ul> <li>♦ Current discount rate: 7.25%</li> </ul>	\$	842,013,303	\$	20,525,227
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	25,891,032
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	15,991,246
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(1,454,784)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	↓ \$	(626,422)
◆ 2024	\$	(16,012,907)	\$	(319,635)
◆ 2025	\$	(11,950,224)	\$	(251,319)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	158,680
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Athol Housing Authority		
♦ Current Proportionate Share				0.059839%	
<ul> <li>Prior Proportionate Share</li> </ul>				0.057260%	
Beginning Net Pension Liability	\$	888,400,147	\$	508,695	
Ending Net Pension Liability	\$	842,013,303	\$	503,853	
<ul> <li>Total Deferred Outflows of Resources:</li> <li>♦ Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-	
<ul> <li>Changes of Assumptions</li> </ul>		72,402,779		43,325	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		21,179	
Total Deferred Outflows of Resources	\$	96,619,703	\$	64,504	
Total Deferred Inflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	17,610,586	\$	10,538	
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	71,085	
Earnings on Pension Plan Investments		110,704,270		11,000	
<ul> <li>Changes of Assumptions</li> </ul>		-		-	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		105,873	
Total Deferred Inflows of Resources	\$	160,621,785	\$	187,496	
Employer Pension Expense:					
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	47,160	
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		(83,473)	
Total Employer Pension Expense	\$	78,810,662	\$	(36,313)	
Covered Payroll:	\$	316,455,433	\$	279,213	
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:			
♦ Current discount rate: 7.25%	\$	842,013,303	\$	503,853	
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	635,573	
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	392,553	
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:	
♦ 2022	\$	(13,963,988)	\$	(79,915)	
♦ 2023	\$	(28,185,245)	\$	(27,719)	
♦ 2024	\$	(16,012,907)	\$	(18,817)	
♦ 2025	\$	(11,950,224)	\$	(3,087)	
♦ 2026	\$	6,110,282	\$	6,546	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Athol-Royalston Regional	
♦ Current Proportionate Share				0.906243%
<ul> <li>Prior Proportionate Share</li> </ul>				0.923921%
Beginning Net Pension Liability	\$	888,400,147	\$	8,208,120
Ending Net Pension Liability	\$	842,013,303	\$	7,630,686
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
♦ Changes of Assumptions		72,402,779		656,145
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		52,616
Contributions and Proportionate Share of Contributions		_ ,,0,02 ;		02,020
Total Deferred Outflows of Resources	\$	96,619,703	\$	708,761
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	159,595
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	1,076,565
Earnings on Pension Plan Investments		110,104,210		1,010,000
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer</li> <li>Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		831,095
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,067,255
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	714,216
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	·	-	·	(744,357)
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				(1 1 1,001)
Total Employer Pension Expense	\$	78,810,662	\$	(30,141)
Covered Payroll:	\$	316,455,433	\$	2,751,691
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	7,630,686
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	9,625,537
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	5,945,083
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(753,014)
<ul><li>◆ 2023</li></ul>	\$	(28,185,245)	\$	(312,996)
♦ 2024	\$	(16,012,907)	\$	(199,984)
♦ 2025	\$	(11,950,224)	\$	(128,064)
♦ 2026	\$	6,110,282	\$	35,564
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Auburn
♦ Current Proportionate Share				5.274781%
♦ Prior Proportionate Share				5.291860%
Beginning Net Pension Liability	\$	888,400,147	\$	47,012,894
Ending Net Pension Liability	\$	842,013,303	\$	44,414,357
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 3,819,088 894,198
Total Deferred Outflows of Resources	\$	96,619,703	\$	4,713,286
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	928,920 6,266,138
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 277,105
Total Deferred Inflows of Resources	\$	160,621,785	\$	7,472,163
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	4,157,090 540,054
Total Employer Pension Expense	\$	78,810,662	\$	4,697,144
Covered Payroll:	\$	316,455,433	\$	15,955,682
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	9:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	44,414,357
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	56,025,375
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	34,603,315
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(254,669)
◆ 2022 ◆ 2023	э \$	(28,185,245)	э \$	(1,386,019)
◆ 2023 ◆ 2024	Գ \$	(16,012,907)	Գ \$	(746,323)
◆ 2024 ◆ 2025	↓ \$	(11,950,224)	↓ \$	(675,033)
◆ 2026	\$	6,110,282	\$	303,167
◆ Thereafter	\$		\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Auburn Housing Authority	
♦ Current Proportionate Share				0.104769%
<ul> <li>Prior Proportionate Share</li> </ul>				0.105349%
Beginning Net Pension Liability	\$	888,400,147	\$	935,917
Ending Net Pension Liability	\$	842,013,303	\$	882,167
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 75,856 6,460
Contributions and Proportionate Share of Contributions				
Total Deferred Outflows of Resources	\$	96,619,703	\$	82,316
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	18,450 124,459
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 22,598
Total Deferred Inflows of Resources	\$	160,621,785	\$	165,507
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	82,569 (234)
Total Employer Pension Expense	\$	78,810,662	\$	82,335
Covered Payroll:	\$	316,455,433	\$	277,532
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	882,167
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	1,112,788
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	687,298
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(16,513)
◆ 2022 ◆ 2023	ֆ \$	(28,185,245)	⊅ \$	(36,559)
◆ 2024	↓ \$	(16,012,907)	Ψ \$	(22,682)
◆ 2025	↓ \$	(11,950,224)	↓ \$	(13,188)
◆ 2026	\$	6,110,282	\$	5,751
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Auburn Water District		
♦ Current Proportionate Share				0.159642%	
♦ Prior Proportionate Share				0.151538%	
Beginning Net Pension Liability	\$	888,400,147	\$	1,346,262	
Ending Net Pension Liability	\$	842,013,303	\$	1,344,209	
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 115,585 65,371	
Total Deferred Outflows of Resources	\$	96,619,703	\$	180,956	
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	28,114 189,646	
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 83,224	
Total Deferred Inflows of Resources	\$	160,621,785	\$	300,984	
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	125,815 (17,154)	
Total Employer Pension Expense	\$	78,810,662	\$	108,661	
Covered Payroll:	\$	316,455,433	\$	474,611	
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:			
♦ Current discount rate: 7.25%	\$	842,013,303	\$	1,344,209	
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	1,695,618	
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	1,047,276	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future l	Pensio	n Expense:	
♦ 2022	\$	(13,963,988)	\$	(39,406)	
◆ 2022 ◆ 2023	Ψ \$	(28,185,245)	↓ \$	(57,925)	
◆ 2024	\$	(16,012,907)	\$	(35,585)	
◆ 2025	\$	(11,950,224)	\$	(5,947)	
♦ 2026	\$	6,110,282	\$	18,835	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Barre
♦ Current Proportionate Share				0.554519%
<ul> <li>Prior Proportionate Share</li> </ul>				0.531973%
Beginning Net Pension Liability	\$	888,400,147	\$	4,726,048
Ending Net Pension Liability	\$	842,013,303	\$	4,669,123
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 401,487 227,368
Total Deferred Outflows of Resources	\$	96,619,703	\$	628,855
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	97,654 658,737
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 46,991
Total Deferred Inflows of Resources	\$	160,621,785	\$	803,382
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	437,020 57,598
Total Employer Pension Expense	\$	78,810,662	\$	494,618
Covered Payroll:	\$	316,455,433	\$	2,634,139
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
<ul> <li>♦ Current discount rate: 7.25%</li> </ul>	\$	842,013,303	\$	4,669,123
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	5,889,748
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	3,637,723
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future l	Pensio	n Expense:
◆ 2022	\$	(13,963,988)	\$	(25,425)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	Ψ \$	(125,713)
◆ 2024	\$	(16,012,907)	\$	(47,994)
◆ 2025	↓ \$	(11,950,224)	↓ \$	(34,542)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	59,147
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	orcester Regional Retirement System	Barre Housing Authority		
♦ Current Proportionate Share				0.040850%	
<ul> <li>Prior Proportionate Share</li> </ul>				0.031121%	
Beginning Net Pension Liability	\$	888,400,147	\$	276,482	
Ending Net Pension Liability	\$	842,013,303	\$	343,960	
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 29,576 90,631	
Total Deferred Outflows of Resources	\$	96,619,703	\$	120,207	
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer</li> </ul>	\$	17,610,586 118,794,275 - 24,216,924	\$	7,194 48,527 -	
Contributions and Proportionate Share of Contributions		,,			
Total Deferred Inflows of Resources	\$	160,621,785	\$	55,721	
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	32,194 23,389	
Total Employer Pension Expense	\$	78,810,662	\$	55,583	
Covered Payroll:	\$	316,455,433	\$	63,121	
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rati	<b>e</b> .			
◆ Current discount rate: 7.25%	\$	842,013,303	\$	343,960	
<ul> <li>1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	433,880	
<ul> <li>◆ 1% decrease in the discount rate: 0.25%</li> <li>◆ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	267,980	
Deferred Outflows of Resources and Deferred Inflows of Resou	roop Dr	oognized in Euture I	Poncio	n Exponso:	
		-		-	
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ ¢	(13,963,988)	\$ \$	17,186	
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	\$ ¢	(28,185,245) (16,012,907)		9,588 13,325	
<ul> <li>≥024</li> <li>≥025</li> </ul>	\$ \$	(11,950,224)	\$ \$	13,325	
◆ 2025 ◆ 2026	Գ \$	6,110,282	\$ \$	13,398	
◆ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Berlin
♦ Current Proportionate Share				0.745707%
♦ Prior Proportionate Share				0.792769%
Beginning Net Pension Liability	\$	888,400,147	\$	7,042,961
Ending Net Pension Liability	\$	842,013,303	\$	6,278,951
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 539,913 65,197
Total Deferred Outflows of Resources	\$	96,619,703	\$	605,110
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	131,323 885,857
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 495,522
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,512,702
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	587,697 (48,092)
Total Employer Pension Expense	\$	78,810,662	\$	539,605
Covered Payroll:	\$	316,455,433	\$	2,116,778
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$	6,278,951 7,920,425 4,891,943
Deferred Outflows of Descurses and Deferred Inflows of Descurses		enderinged in Future 1	Densis	
Deferred Outflows of Resources and Deferred Inflows of Resources				
◆ 2022 ◆ 2023	\$ \$	(13,963,988) (28,185,245)	\$ \$	(164,593) (335,654)
◆ 2023 ◆ 2024	↓ \$	(16,012,907)	↓ \$	(236,043)
◆ 2025	↓ \$	(11,950,224)	\$	(164,131)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	(7,171)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Be	Berlin-Boylston Regional		
♦ Current Proportionate Share				0.432009%		
<ul> <li>Prior Proportionate Share</li> </ul>				0.265009%		
Beginning Net Pension Liability	\$	888,400,147	\$	2,354,341		
Ending Net Pension Liability	\$	842,013,303	\$	3,637,573		
Total Deferred Outflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-		
♦ Changes of Assumptions		72,402,779		312,786		
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		1,433,960		
Contributions and Proportionate Share of Contributions		21,210,021		1,100,000		
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,746,746		
Total Deferred Inflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	76,079		
Net Difference Between Projected and Actual Investment	Ψ	118,794,275	Ψ	513,202		
Earnings on Pension Plan Investments		110,794,275		515,202		
<ul> <li>Changes of Assumptions</li> </ul>		-		-		
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		5,943		
Total Deferred Inflows of Resources	\$	160,621,785	\$	595,224		
Employer Pension Expense:						
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	340,469		
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ψ	10,010,002	Ψ	339,018		
Proportion and Differences Between Employer Contributions				333,010		
and Proportionate Share of Contributions						
Total Employer Pension Expense	\$	78,810,662	\$	679,487		
Covered Payroll:	\$	316,455,433	\$	1,923,333		
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:				
♦ Current discount rate: 7.25%	\$	842,013,303	\$	3,637,573		
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	4,588,525		
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	2,834,040		
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:		
♦ 2022	\$	(13,963,988)	\$	276,818		
♦ 2023	\$	(28,185,245)	\$	203,821		
♦ 2024	\$	(16,012,907)	\$	246,458		
♦ 2025	\$	(11,950,224)	\$	210,900		
• 2026	\$	6,110,282	\$	213,525		
♦ Thereafter	\$	-	\$	-		

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Blackstone
♦ Current Proportionate Share				1.244413%
<ul> <li>Prior Proportionate Share</li> </ul>				1.379972%
Beginning Net Pension Liability	\$	888,400,147	\$	12,259,676
Ending Net Pension Liability	\$	842,013,303	\$	10,478,120
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 900,989 367,344
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,268,333
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	219,148 1,478,291
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 1,007,657
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,705,096
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	980,730 13,234
Total Employer Pension Expense	\$	78,810,662	\$	993,964
Covered Payroll:	\$	316,455,433	\$	4,162,321
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rato \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$ \$	10,478,120 13,217,361 8,163,524
Deferred Outflows of Resources and Deferred Inflows of Resou	roos Dr	cognized in Euture I	Doneio	
◆ 2022	s	(13,963,988)	\$	(182,609)
◆ 2022 ◆ 2023	ъ \$	(13,963,988) (28,185,245)	ъ \$	(182,609) (476,100)
◆ 2024	↓ \$	(16,012,907)	↓ \$	(339,711)
◆ 2025	\$	(11,950,224)	\$	(362,483)
♦ 2026	\$	6,110,282	\$	(75,860)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Black	kstone Housing Authority
♦ Current Proportionate Share				0.025291%
<ul> <li>Prior Proportionate Share</li> </ul>				0.028700%
Beginning Net Pension Liability	\$	888,400,147	\$	254,968
Ending Net Pension Liability	\$	842,013,303	\$	212,955
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
♦ Changes of Assumptions		72,402,779		18,312
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		4,481
Contributions and Proportionate Share of Contributions		27,210,027		-,-01
Total Deferred Outflows of Resources	\$	96,619,703	\$	22,793
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	4,454
	Ψ		Ψ	,
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		118,794,275		30,045
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		45,056
Total Deferred Inflows of Resources	\$	160,621,785	\$	79,555
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions</li> </ul>	\$	78,810,662 -	\$	19,932 (6,798)
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	78,810,662	\$	13,134
Covered Payroll:	\$	316,455,433	\$	-
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	212,955
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	268,627
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	165,914
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future F	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	. (11,544)
♦ 2023	\$	(28,185,245)	\$	(19,505)
♦ 2024	\$	(16,012,907)	\$	(14,840)
♦ 2025	\$	(11,950,224)	\$	(8,598)
♦ 2026	\$	6,110,282	\$	(2,275)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Blackstone-Millville Regional		
♦ Current Proportionate Share				0.825057%	
<ul> <li>Prior Proportionate Share</li> </ul>				0.865030%	
Beginning Net Pension Liability	\$	888,400,147	\$	7,684,924	
Ending Net Pension Liability	\$	842,013,303	\$	6,947,093	
Total Deferred Outflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-	
♦ Changes of Assumptions		72,402,779		597,364	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		1,695	
Total Deferred Outflows of Resources	\$	96,619,703	\$	599,059	
Total Deferred Inflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	145,297	
Net Difference Between Projected and Actual Investment	Ψ	118,794,275	Ψ	980,121	
Earnings on Pension Plan Investments		110,794,275		900,121	
<ul> <li>Changes of Assumptions</li> </ul>		-		-	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		394,143	
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,519,561	
Employer Pension Expense:					
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	650,233	
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	·	-,		(144,755)	
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				(,,	
Total Employer Pension Expense	\$	78,810,662	\$	505,478	
Covered Payroll:	\$	316,455,433	\$	2,735,085	
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:			
◆ Current discount rate: 7.25%	\$	842,013,303	\$	6,947,093	
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	8,763,236	
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	5,412,494	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future F	Pensio	n Expense:	
♦ 2022	\$	(13,963,988)	\$	(235,160)	
♦ 2023	\$	(28,185,245)	\$	(317,196)	
♦ 2024	\$	(16,012,907)	\$	(212,414)	
♦ 2025	\$	(11,950,224)	\$	(161,356)	
♦ 2026	\$	6,110,282	\$	5,624	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Wa	rcester Regional Retirement System		Bolton
♦ Current Proportionate Share				0.814501%
<ul> <li>Prior Proportionate Share</li> </ul>				0.773979%
Beginning Net Pension Liability	\$	888,400,147	\$	6,876,028
Ending Net Pension Liability	\$	842,013,303	\$	6,858,208
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 589,721 492,019
Contributions and Proportionate Share of Contributions				
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,081,740
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	143,438 967,581
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 13,849
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,124,868
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	641,914 156,679
Total Employer Pension Expense	\$	78,810,662	\$	798,593
Covered Payroll:	\$	316,455,433	\$	2,748,507
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	6,858,208
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	8,651,114
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	5,343,243
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future l	Pensio	n Exnense:
◆ 2022	\$	(13,963,988)	\$	39,778
• 2022 • 2023	Գ \$	(28,185,245)	⊅ \$	(118,573)
◆ 2023 ◆ 2024	↓ \$	(16,012,907)	Ψ \$	(24,738)
◆ 2025	↓ \$	(11,950,224)	↓ \$	(34,770)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	95,175
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Boylston
♦ Current Proportionate Share				0.953868%
<ul> <li>Prior Proportionate Share</li> </ul>				1.074951%
Beginning Net Pension Liability	\$	888,400,147	\$	9,549,865
Ending Net Pension Liability	\$	842,013,303	\$	8,031,694
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 690,627 139,858
Total Deferred Outflows of Resources	\$	96,619,703	\$	830,485
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	167,982 1,133,140
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 991,533
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,292,655
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	751,750 (64,327)
Total Employer Pension Expense	\$	78,810,662	\$	687,423
Covered Payroll:	\$	316,455,433	\$	3,153,264
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	9:		
<ul> <li>♦ Current discount rate: 7.25%</li> </ul>	\$	842,013,303	\$	8,031,694
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	10,131,379
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	6,257,509
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(217,216)
◆ 2023	↓ \$	(28,185,245)	↓ \$	(490,352)
◆ 2024	\$	(16,012,907)	\$	(361,340)
◆ 2025	\$	(11,950,224)	\$	(315,870)
♦ 2026	\$	6,110,282	\$	(77,392)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wa	rcester Regional Retirement System	Bo	ylston Water District
♦ Current Proportionate Share				0.020001%
<ul> <li>Prior Proportionate Share</li> </ul>				0.020192%
Beginning Net Pension Liability	\$	888,400,147	\$	179,386
Ending Net Pension Liability	\$	842,013,303	\$	168,410
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 14,481 8,951
Total Deferred Outflows of Resources	\$	96,619,703	\$	23,432
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	3,522 23,760
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 1,421
Total Deferred Inflows of Resources	\$	160,621,785	\$	28,703
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	15,763 4,867
Total Employer Pension Expense	\$	78,810,662	\$	20,630
Covered Payroll:	\$	316,455,433	\$	69,839
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	168,410
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	212,437
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	131,209
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	1,638
♦ 2023	\$	(28,185,245)	\$	(3,633)
♦ 2024	\$	(16,012,907)	\$	(1,736)
♦ 2025	\$	(11,950,224)	\$	(2,549)
♦ 2026	\$	6,110,282	\$	1,009
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Brookfield
♦ Current Proportionate Share				0.492969%
♦ Prior Proportionate Share				0.467701%
Beginning Net Pension Liability	\$	888,400,147	\$	4,155,057
Ending Net Pension Liability	\$	842,013,303	\$	4,150,866
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 356,923 232,211
Total Deferred Outflows of Resources	\$	96,619,703	\$	589,134
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	86,815 585,619
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 78,357
Total Deferred Inflows of Resources	\$	160,621,785	\$	750,791
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	388,512 61,016
Total Employer Pension Expense	\$	78,810,662	\$	449,528
Covered Payroll:	\$	316,455,433	\$	1,461,330
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	9:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	4,150,866
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	5,236,005
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	3,233,948
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	cognized in Future l	Ponsio	n Evnense:
♦ 2022	\$	(13,963,988)	\$	(13,151)
◆ 2022 ◆ 2023	ъ \$	(28,185,245)	ъ \$	(13,151) (127,045)
◆ 2023 ◆ 2024	э \$	(16,012,907)	э \$	(127,045)
<ul> <li>≥024</li> <li>≥025</li> </ul>	э \$	(11,950,224)	э \$	(19,794)
◆ 2026	Ψ \$	6,110,282	Ψ \$	58,435
◆ Thereafter	\$		\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Charlton
Current Proportionate Share				2.333548%
Prior Proportionate Share				2.216983%
Beginning Net Pension Liability	\$	888,400,147	\$	19,695,681
Ending Net Pension Liability	\$	842,013,303	\$	19,648,787
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,689,554 1,449,324
Total Deferred Outflows of Resources	\$	96,619,703	\$	3,138,878
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	410,952 2,772,122
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 63,810
Total Deferred Inflows of Resources	\$	160,621,785	\$	3,246,884
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	1,839,085 412,094
Total Employer Pension Expense	\$	78,810,662	\$	2,251,179
Covered Payroll:	\$	316,455,433	\$	6,671,498
Sensitivity of the Net Pension Liability to Changes in the Discout • Current discount rate: 7.25%	int Rate \$		\$	10 6 4 9 7 9 7
<ul> <li>1% decrease in the discount rate: 6.25%</li> </ul>		842,013,303 1,062,136,523		19,648,787 24,785,469
<ul> <li>1% decrease in the discount rate: 0.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	↓ \$	656,014,261	\$	15,308,410
Deferred Outflows of Resources and Deferred Inflows of Resources		-		
◆ 2022 ◆ 2023	\$ ¢	(13,963,988)	\$ ¢	77,964
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	\$ \$	(28,185,245) (16,012,907)	\$ ¢	(309,482) (46,257)
<ul> <li>≥024</li> <li>≥025</li> </ul>	ъ \$	(11,950,224)	\$ \$	(103,428)
◆ 2025 ◆ 2026	↓ \$	6,110,282	↓ \$	273,197
◆ Thereafter	\$		\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		herry Valley- chdale Water
♦ Current Proportionate Share				0.088354%
<ul> <li>Prior Proportionate Share</li> </ul>				0.090651%
Beginning Net Pension Liability	\$	888,400,147	\$	805,343
Ending Net Pension Liability	\$	842,013,303	\$	743,955
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 63,971 40,739
Total Deferred Outflows of Resources	\$	96,619,703	\$	104,710
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	15,560 104,960
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 19,443
Total Deferred Inflows of Resources	\$	160,621,785	\$	139,963
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	69,633 9,321
Total Employer Pension Expense	\$	78,810,662	\$	78,954
Covered Payroll:	\$	316,455,433	\$	323,739
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	743,955
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	938,443
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	579,617
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	accornized in Future I	Densio	n Evnense:
♦ 2022	\$	(13,963,988)	\$	(3,931)
◆ 2022 ◆ 2023	э \$	(28,185,245)	ъ \$	(14,623)
<ul> <li>≥023</li> <li>≥024</li> </ul>	ъ \$	(16,012,907)	ъ \$	(14,623)
◆ 2024 ◆ 2025	.⊅ \$	(11,950,224)	ֆ \$	(11,774)
◆ 2026	\$	6,110,282	\$	2,827
◆ Thereafter	\$		\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Cher	ry Valley Sewer District
Current Proportionate Share				0.000000%
Prior Proportionate Share				0.00000%
Beginning Net Pension Liability	\$	888,400,147	\$	-
Ending Net Pension Liability	\$	842,013,303	\$	-
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
<ul> <li>Changes of Assumptions</li> </ul>		72,402,779		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		3,420
Total Deferred Outflows of Resources	\$	96,619,703	\$	3,420
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience	\$	17,610,586	\$	_
<ul> <li>Net Difference Between Projected and Actual Investment</li> </ul>	Ŷ	118,794,275	Ψ	_
Earnings on Pension Plan Investments		110,104,210		
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer</li> <li>Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		12,497
Total Deferred Inflows of Resources	\$	160,621,785	\$	12,497
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	- (625)
Total Employer Pension Expense	\$	78,810,662	\$	(625)
Covered Payroll:	\$	316,455,433	\$	-
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	9:		
Current discount rate: 7.25%	\$	842,013,303	\$	-
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	-
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	-
Deferred Outflows of Resources and Deferred Inflows of Resou	irces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(1,129)
• 2023	\$	(28,185,245)	\$	(4,253)
• 2024	\$	(16,012,907)	\$	(3,696)
<ul><li>◆ 2025</li><li>◆ 2026</li></ul>	\$ \$	(11,950,224) 6,110,282	\$ \$	-
	φ	0,110,202	φ	1

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Douglas
♦ Current Proportionate Share				1.727054%
<ul> <li>Prior Proportionate Share</li> </ul>				1.772542%
Beginning Net Pension Liability	\$	888,400,147	\$	15,747,268
Ending Net Pension Liability	\$	842,013,303	\$	14,542,025
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,250,435 146,040
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,396,475
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	304,144 2,051,641
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 478,245
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,834,030
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,361,103 41,751
Total Employer Pension Expense	\$	78,810,662	\$	1,402,854
Covered Payroll:	\$	316,455,433	\$	6,354,975
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	9:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	14,542,025
◆ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	18,343,671
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	11,329,721
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	cognized in Future I	Pensic	n Expense:
♦ 2022	\$	(13,963,988)	\$	(215,954)
♦ 2023	\$	(28,185,245)	\$	(604,581)
◆ 2024	\$	(16,012,907)	\$	(377,302)
♦ 2025	\$	(11,950,224)	\$	(294,275)
♦ 2026	\$	6,110,282	\$	54,557
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Dudley
♦ Current Proportionate Share				1.475885%
<ul> <li>Prior Proportionate Share</li> </ul>				1.419873%
Beginning Net Pension Liability	\$	888,400,147	\$	12,614,157
Ending Net Pension Liability	\$	842,013,303	\$	12,427,148
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,068,582 416,352
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,484,934
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	259,912 1,753,267
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 177,551
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,190,730
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,163,155 (25,869)
Total Employer Pension Expense	\$	78,810,662	\$	1,137,286
Covered Payroll:	\$	316,455,433	\$	3,718,166
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	12,427,148
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	15,675,913
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	9,682,016
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(220,171)
◆ 2023	↓ \$	(28,185,245)	↓ \$	(365,497)
◆ 2024	\$	(16,012,907)	\$	(176,842)
◆ 2025	\$	(11,950,224)	\$	(96,233)
♦ 2026	\$	6,110,282	\$	152,947
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	orcester Regional Retirement System	Du	idley Housing Authority
♦ Current Proportionate Share				0.030465%
<ul> <li>Prior Proportionate Share</li> </ul>				0.026398%
Beginning Net Pension Liability	\$	888,400,147	\$	234,524
Ending Net Pension Liability	\$	842,013,303	\$	256,521
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 22,058 39,722
Total Deferred Outflows of Resources	\$	96,619,703	\$	61,780
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	5,365 36,191
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 22,042
Total Deferred Inflows of Resources	\$	160,621,785	\$	63,598
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	24,010 (16,006)
Total Employer Pension Expense	\$	78,810,662	\$	8,004
Covered Payroll:	\$	316,455,433	\$	122,964
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	256,521
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	323,582
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	199,856
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(16,084)
◆ 2023	↓ \$	(28,185,245)	↓ \$	1,308
◆ 2024	\$	(16,012,907)	\$	3,191
◆ 2025	\$	(11,950,224)	\$	3,346
♦ 2026	\$	6,110,282	\$	6,421
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Worcester Regional Retirement System			Dudley-Charlton Regional		
♦ Current Proportionate Share				1.662739%		
<ul> <li>Prior Proportionate Share</li> </ul>				1.679772%		
Beginning Net Pension Liability	\$	888,400,147	\$	14,923,093		
Ending Net Pension Liability	\$	842,013,303	\$	14,000,481		
Total Deferred Outflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-		
♦ Changes of Assumptions		72,402,779		1,203,869		
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		73,426		
Contributions and Proportionate Share of Contributions		21,210,021		10,120		
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,277,295		
Total Deferred Inflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	292,818		
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	1,975,238		
Earnings on Pension Plan Investments		110,104,210		1,010,200		
<ul> <li>Changes of Assumptions</li> </ul>		-		-		
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		144,285		
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,412,341		
Employer Pension Expense:						
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	1,310,415		
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	·	-,,	•	5,156		
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				0,200		
Total Employer Pension Expense	\$	78,810,662	\$	1,315,571		
Covered Payroll:	\$	316,455,433	\$	5,572,769		
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:				
♦ Current discount rate: 7.25%	\$	842,013,303	\$	14,000,481		
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	17,660,555		
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	10,907,803		
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:		
♦ 2022	\$	(13,963,988)	\$	(227,870)		
♦ 2023	\$	(28,185,245)	\$	(482,929)		
♦ 2024	\$	(16,012,907)	\$	(279,503)		
♦ 2025	\$	(11,950,224)	\$	(227,255)		
♦ 2026	\$	6,110,282	\$	82,511		
♦ Thereafter	\$	-	\$	-		

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Ea	st Brookfield
♦ Current Proportionate Share				0.250847%
<ul> <li>Prior Proportionate Share</li> </ul>				0.251404%
Beginning Net Pension Liability	\$	888,400,147	\$	2,233,473
Ending Net Pension Liability	\$	842,013,303	\$	2,112,167
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
♦ Changes of Assumptions		72,402,779		181,620
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		77,812
Contributions and Proportionate Share of Contributions		21,210,021		11,012
Total Deferred Outflows of Resources	\$	96,619,703	\$	259,432
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	44,176
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	297,992
Earnings on Pension Plan Investments		110,794,275		291,992
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		26,252
Total Deferred Inflows of Resources	\$	160,621,785	\$	368,420
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	197,694
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	·	-		60,291
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				00,201
Total Employer Pension Expense	\$	78,810,662	\$	257,985
Covered Payroll:	\$	316,455,433	\$	793,566
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	2,112,167
◆ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	2,664,340
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	1,645,593
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	17,267
♦ 2023	\$	(28,185,245)	\$	(70,266)
♦ 2024	\$	(16,012,907)	\$	(37,245)
♦ 2025	\$	(11,950,224)	\$	(33,450)
• 2026	\$	6,110,282	\$	14,706
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Grafton
Current Proportionate Share				3.175273%
<ul> <li>Prior Proportionate Share</li> </ul>				3.083774%
Beginning Net Pension Liability	\$	888,400,147	\$	27,396,255
Ending Net Pension Liability	\$	842,013,303	\$	26,736,222
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 2,298,986 1,007,795
Total Deferred Outflows of Resources	\$	96,619,703	\$	3,306,781
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	559,184 3,772,043
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 20,434
Total Deferred Inflows of Resources	\$	160,621,785	\$	4,351,661
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	2,502,454 283,654
Total Employer Pension Expense	\$	78,810,662	\$	2,786,108
Covered Payroll:	\$	316,455,433	\$	11,759,775
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	int Rate \$ \$ \$	e: 842,013,303 1,062,136,523 656,014,261	\$ \$ \$	26,736,222 33,725,735 20,830,244
Deferred Autflows of Dessuress and Deferred Inflows of Dessures		contained in Future I	Donala	n Evponse:
Deferred Outflows of Resources and Deferred Inflows of Resources				
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(164,162) (657,231)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	э \$	(282,768)
◆ 2025	Ψ \$	(11,950,224)	↓ \$	(237,268)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	296,549
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Gra	afton Housing Authority
♦ Current Proportionate Share				0.075463%
<ul> <li>Prior Proportionate Share</li> </ul>				0.084645%
Beginning Net Pension Liability	\$	888,400,147	\$	751,988
Ending Net Pension Liability	\$	842,013,303	\$	635,405
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> </ul>	\$	- 72,402,779	\$	- 54,637
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		5,561
Total Deferred Outflows of Resources	\$	96,619,703	\$	60,198
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	13,289 89,645
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 100,867
Total Deferred Inflows of Resources	\$	160,621,785	\$	203,801
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	59,473 (28,279)
Total Employer Pension Expense	\$	78,810,662	\$	31,194
Covered Payroll:	\$	316,455,433	\$	204,409
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	635,405
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	801,515
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	495,045
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(37,492)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	Ψ \$	(44,925)
◆ 2024	\$	(16,012,907)	\$	(33,061)
◆ 2025	\$	(11,950,224)	\$	(22,446)
♦ 2026	\$	6,110,282	\$	(5,679)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Hardwick
♦ Current Proportionate Share				0.295229%
<ul> <li>Prior Proportionate Share</li> </ul>				0.313537%
Beginning Net Pension Liability	\$	888,400,147	\$	2,785,459
Ending Net Pension Liability	\$	842,013,303	\$	2,485,869
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 213,754 6,685
Total Deferred Outflows of Resources	\$	96,619,703	\$	220,439
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	51,992 350,715
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 318,143
Total Deferred Inflows of Resources	\$	160,621,785	\$	720,850
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	232,672 (133,614)
Total Employer Pension Expense	\$	78,810,662	\$	99,058
Covered Payroll:	\$	316,455,433	\$	1,023,724
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	e: 842,013,303 1,062,136,523 656,014,261	\$ \$	2,485,869 3,135,737 1,936,746
Deferred Outflows of Resources and Deferred Inflows of Resources		-		-
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(167,905) (154,674)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	\$ \$	(16,012,907)	\$ \$	(154,674) (112,208)
◆ 2024 ◆ 2025	↓ \$	(11,950,224)	↓ \$	(63,149)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	(2,475)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Harvard
♦ Current Proportionate Share				1.525881%
<ul> <li>Prior Proportionate Share</li> </ul>				1.488707%
Beginning Net Pension Liability	\$	888,400,147	\$	13,225,679
Ending Net Pension Liability	\$	842,013,303	\$	12,848,117
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,104,780 344,561
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,449,341
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	268,716 1,812,659
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 114,942
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,196,317
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,202,557 22,164
Total Employer Pension Expense	\$	78,810,662	\$	1,224,721
Covered Payroll:	\$	316,455,433	\$	4,841,712
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	<b>e:</b>		
<ul> <li>♦ Current discount rate: 7.25%</li> </ul>	\$	842,013,303	\$	12,848,117
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	16,206,934
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	10,009,994
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	cognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(187,721)
◆ 2023	\$	(28,185,245)	\$	(382,105)
◆ 2024	\$	(16,012,907)	\$	(198,412)
♦ 2025	\$	(11,950,224)	\$	(113,624)
♦ 2026	\$	6,110,282	\$	134,886
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Hi	llcrest Water District
♦ Current Proportionate Share				0.013537%
<ul> <li>Prior Proportionate Share</li> </ul>				0.005937%
Beginning Net Pension Liability	\$	888,400,147	\$	52,747
Ending Net Pension Liability	\$	842,013,303	\$	113,982
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 9,801 57,552
Total Deferred Outflows of Resources	\$	96,619,703	\$	67,353
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	2,384 16,081
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 45,456
Total Deferred Inflows of Resources	\$	160,621,785	\$	63,921
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	10,668 8,100
Total Employer Pension Expense	\$	78,810,662	\$	18,768
Covered Payroll:	\$	316,455,433	\$	52,396
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	113,982
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	143,779
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	88,803
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(4,923)
◆ 2023	↓ \$	(28,185,245)	↓ \$	(2,362)
◆ 2024	\$	(16,012,907)	\$	(1,195)
◆ 2025	\$	(11,950,224)	\$	2,572
♦ 2026	\$	6,110,282	\$	9,340
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Holden
♦ Current Proportionate Share				3.639028%
<ul> <li>Prior Proportionate Share</li> </ul>				3.554444%
Beginning Net Pension Liability	\$	888,400,147	\$	31,577,686
Ending Net Pension Liability	\$	842,013,303	\$	30,641,099
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 2,634,757 803,470
Total Deferred Outflows of Resources	\$	96,619,703	\$	3,438,227
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	640,854 4,322,957
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 944,279
Total Deferred Inflows of Resources	\$	160,621,785	\$	5,908,090
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	2,867,942 (252,294)
Total Employer Pension Expense	\$	78,810,662	\$	2,615,648
Covered Payroll:	\$	316,455,433	\$	10,404,562
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	e: 842,013,303 1,062,136,523 656,014,261	\$ \$ \$	30,641,099 38,651,445 23,872,542
Deferred Autflows of Deseuross and Deferred Inflows of Deseuro		contained in Future I	Donala	
Deferred Outflows of Resources and Deferred Inflows of Resources				
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(751,457) (1,115,163)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	э \$	(1,115,163) (645,173)
• 2024 • 2025	.⊅ \$	(11,950,224)	Գ \$	(275,200)
◆ 2026	\$	6,110,282	\$	317,130
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Но	lden Housing Authority
♦ Current Proportionate Share				0.031461%
<ul> <li>Prior Proportionate Share</li> </ul>				0.054096%
Beginning Net Pension Liability	\$	888,400,147	\$	480,591
Ending Net Pension Liability	\$	842,013,303	\$	264,902
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
<ul> <li>Changes of Assumptions</li> </ul>	·	72,402,779	·	22,778
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		11,224
Contributions and Proportionate Share of Contributions		24,210,924		11,224
Total Deferred Outflows of Resources	\$	96,619,703	\$	34,002
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	5,540
<ul> <li>Net Difference Between Projected and Actual Investment</li> </ul>	•	118,794,275		37,373
Earnings on Pension Plan Investments		110,104,210		51,515
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		175,619
Total Deferred Inflows of Resources	\$	160,621,785	\$	218,532
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	24,794
	Ψ	10,010,002	Ψ	
Net Amortization of Deferred Amounts from Changes in     Departing and Differences Detwoon Employer Contributions		-		(36,610)
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	78,810,662	\$	(11,816)
Covered Payroll:	\$	316,455,433	\$	-
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	264,902
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	334,154
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	206,386
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future F	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(40,207)
◆ 2023	\$	(28,185,245)	\$	(42,375)
♦ 2024	\$	(16,012,907)	\$	(38,367)
♦ 2025	\$	(11,950,224)	\$	(40,141)
♦ 2026	\$	6,110,282	\$	(23,440)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Hopedale
♦ Current Proportionate Share				1.625106%
<ul> <li>Prior Proportionate Share</li> </ul>				1.587019%
Beginning Net Pension Liability	\$	888,400,147	\$	14,099,076
Ending Net Pension Liability	\$	842,013,303	\$	13,683,610
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,176,622 394,105
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,570,727
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	286,191 1,930,533
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 280,521
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,497,245
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,280,757 99,964
Total Employer Pension Expense	\$	78,810,662	\$	1,380,721
Covered Payroll:	\$	316,455,433	\$	5,386,032
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	э:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	13,683,610
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	17,260,846
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	10,660,928
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future l	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(142,516)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	↓ \$	(482,670)
◆ 2024	\$	(16,012,907)	\$	(271,273)
◆ 2025	\$	(11,950,224)	\$	(172,032)
♦ 2026	\$	6,110,282	\$	141,973
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Нор	edale Housing Authority
♦ Current Proportionate Share				0.004551%
♦ Prior Proportionate Share				0.008508%
Beginning Net Pension Liability	\$	888,400,147	\$	75,582
Ending Net Pension Liability	\$	842,013,303	\$	38,316
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 3,295 3,519
Total Deferred Outflows of Resources	\$	96,619,703	\$	6,814
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	801 5,406
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 38,603
Total Deferred Inflows of Resources	\$	160,621,785	\$	44,810
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	3,586 (12,404)
Total Employer Pension Expense	\$	78,810,662	\$	(8,818)
Covered Payroll:	\$	316,455,433	\$	-
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	ə:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	38,316
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	48,333
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	29,852
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(12,458)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	Ψ \$	(12,438)
◆ 2024	\$	(16,012,907)	\$	(7,374)
♦ 2025	\$	(11,950,224)	\$	(6,293)
♦ 2026	\$	6,110,282	\$	(4,156)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	F	lubbardston
♦ Current Proportionate Share				0.437522%
♦ Prior Proportionate Share				0.406676%
Beginning Net Pension Liability	\$	888,400,147	\$	3,612,910
Ending Net Pension Liability	\$	842,013,303	\$	3,683,997
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 316,778 261,732
Total Deferred Outflows of Resources	\$	96,619,703	\$	578,510
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	77,050 519,752
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 248,784
Total Deferred Inflows of Resources	\$	160,621,785	\$	845,586
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	344,814 (9,250)
Total Employer Pension Expense	\$	78,810,662	\$	335,564
Covered Payroll:	\$	316,455,433	\$	1,442,399
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	int Rate \$ \$ \$	e: 842,013,303 1,062,136,523 656,014,261	\$ \$	3,683,997 4,647,085 2,870,209
Deferred Autflows of Dessuress and Deferred Inflows of Dessures		oodnized in Eutone I	Donala	
<ul> <li>Deferred Outflows of Resources and Deferred Inflows of Resources</li> <li>2022</li> </ul>				
<ul> <li>◆ 2022</li> <li>◆ 2023</li> </ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(70,683) (162,745)
◆ 2023 ◆ 2024	↓ \$	(16,012,907)	↓ \$	(85,291)
◆ 2025	↓ \$	(11,950,224)	↓ \$	(9,654)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	61,297
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Lancaster
♦ Current Proportionate Share				1.027979%
♦ Prior Proportionate Share				1.082250%
Beginning Net Pension Liability	\$	888,400,147	\$	9,614,710
Ending Net Pension Liability	\$	842,013,303	\$	8,655,724
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
<ul> <li>Changes of Assumptions</li> </ul>		72,402,779		744,286
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		308,672
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,052,958
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	181,033
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	1,221,181
Earnings on Pension Plan Investments		110,704,270		1,221,101
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		403,409
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,805,623
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	810,157
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>		_		27,439
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	78,810,662	\$	837,596
Covered Payroll:	\$	316,455,433	\$	2,653,243
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	8,655,724
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	10,918,545
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	6,743,692
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(120,472)
<ul><li>◆ 2023</li></ul>	\$	(28,185,245)	\$	(267,970)
♦ 2024	\$	(16,012,907)	\$	(160,141)
♦ 2025	\$	(11,950,224)	\$	(206,082)
♦ 2026	\$	6,110,282	\$	2,000
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Land	caster Housing Authority
♦ Current Proportionate Share				0.021223%
♦ Prior Proportionate Share				0.025868%
Beginning Net Pension Liability	\$	888,400,147	\$	229,809
Ending Net Pension Liability	\$	842,013,303	\$	178,704
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 15,366 9,586
Total Deferred Outflows of Resources	\$	96,619,703	\$	24,952
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	3,738 25,212
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 37,242
Total Deferred Inflows of Resources	\$	160,621,785	\$	66,192
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	16,726 2,868
Total Employer Pension Expense	\$	78,810,662	\$	19,594
Covered Payroll:	\$	316,455,433	\$	57,026
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	<b>-</b>		
<ul> <li>♦ Current discount rate: 7.25%</li> </ul>	\$	842,013,303	\$	178,704
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	↓ \$	1,062,136,523	\$	225,422
<ul> <li>◆ 1% decrease in the discount rate: 0.25%</li> <li>◆ 1% increase in the discount rate: 8.25%</li> </ul>	↓ \$	656,014,261	Ψ \$	139,229
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(1,833)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	↓ \$	(14,178)
◆ 2024	\$	(16,012,907)	\$	(11,489)
◆ 2025	\$	(11,950,224)	\$	(9,835)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	(3,905)
♦ Thereafter	\$	-	\$	-

<ul> <li>Prior Proportionate Share</li> <li>Prior Proportionate Share</li> <li>Beginning Net Pension Liability</li> <li>\$ 888,400,147</li> <li>2</li> <li>Ending Net Pension Liability</li> <li>\$ 842,013,303</li> <li>3</li> <li>Total Deferred Outflows of Resources:</li> <li>Changes of Assumptions</li> <li>T2,402,779</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Outflows of Resources:</li> <li>Total Deferred Outflows of Resources</li> <li>\$ 96,619,703</li> <li>1</li> <li>Total Deferred Inflows of Resources:</li> <li>Net Difference Between Projected and Actual Experience</li> <li>\$ 17,610,586</li> <li>Net Difference Between Projected and Actual Investment</li> <li>118,794,275</li> </ul>	3757% 3229% 8,685 1,632 - 2,720 3,384 6,104
Beginning Net Pension Liability\$888,400,147\$2Ending Net Pension Liability\$842,013,303\$3Total Deferred Outflows of Resources: • Differences Between Expected and Actual Experience\$-\$• Changes of Assumptions72,402,77924,216,9241• Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions24,216,9241Total Deferred Outflows of Resources: • Differences Between Expected and Actual Experience\$96,619,703\$1Total Deferred Inflows of Resources: • Net Difference Between Projected and Actual Investment\$17,610,586\$	<b>8,685</b> <b>1,632</b> - 2,720 3,384
Ending Net Pension Liability\$842,013,303\$3Total Deferred Outflows of Resources:••\$•\$• Differences Between Expected and Actual Experience\$•\$•\$• Changes of Assumptions72,402,77924,216,92411• Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions24,216,9241Total Deferred Outflows of Resources\$96,619,703\$1Total Deferred Inflows of Resources:•17,610,586\$• Net Difference Between Projected and Actual Experience\$17,610,586\$• Net Difference Between Projected and Actual Investment118,794,2751	<b>1,632</b> - 2,720 3,384
Total Deferred Outflows of Resources:• Differences Between Expected and Actual Experience\$-\$• Changes of Assumptions72,402,77924,216,9241• Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions24,216,9241Total Deferred Outflows of Resources\$96,619,703\$1Total Deferred Inflows of Resources: • Differences Between Expected and Actual Experience\$17,610,586\$• Net Difference Between Projected and Actual Investment118,794,2751	- 2,720 3,384
<ul> <li>Differences Between Expected and Actual Experience \$ - \$</li> <li>Changes of Assumptions 72,402,779</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> <li>Total Deferred Outflows of Resources \$ 96,619,703 \$ 1</li> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience \$ 17,610,586 \$</li> <li>Net Difference Between Projected and Actual Investment 118,794,275</li> </ul>	3,384
Total Deferred Inflows of Resources: <ul> <li>Differences Between Expected and Actual Experience             </li> <li>Net Difference Between Projected and Actual Investment             </li> </ul> <ul> <li>Net Difference Between Projected and Actual Investment             </li> <li>118,794,275             </li> </ul>	6,104
<ul> <li>♦ Differences Between Expected and Actual Experience</li> <li>♦ Net Difference Between Projected and Actual Investment</li> <li>118,794,275</li> </ul>	
Earnings on Pension Plan Investments	662 4,463
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer</li> <li>Contributions and Proportionate Share of Contributions</li> </ul>	- 1,620
Total Deferred Inflows of Resources\$160,621,785\$	6,745
	2,961 5,028
Total Employer Pension Expense\$ 78,810,662\$	7,989
Covered Payroll: \$ 316,455,433 \$ 2	9,700
Sensitivity of the Net Pension Liability to Changes in the Discount Rate:	
	1,632
	9,902
	4,645
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expension	
♦ 2022 \$ (13,963,988) \$	4,503
◆ 2023 \$ (28,185,245) \$	3,378
♦ 2024 \$ (16,012,907) \$	580
◆ 2025 \$ (11,950,224) \$	74
<ul> <li>◆ 2026</li> <li>♦ Thereafter</li> <li>\$</li> <li>♦ -</li> <li>\$</li> </ul>	824

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Leicester
♦ Current Proportionate Share				2.104685%
♦ Prior Proportionate Share				2.164805%
Beginning Net Pension Liability	\$	888,400,147	\$	19,232,127
Ending Net Pension Liability	\$	842,013,303	\$	17,721,724
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,523,850 321,628
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,845,478
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	370,647 2,500,245
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 470,422
Total Deferred Inflows of Resources	\$	160,621,785	\$	3,341,314
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,658,716 (5,855)
Total Employer Pension Expense	\$	78,810,662	\$	1,652,861
Covered Payroll:	\$	316,455,433	\$	5,859,732
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rato \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$ \$	17,721,724 22,354,623 13,807,031
Deferred Outflows of Resources and Deferred Inflows of Resources	roop Dr	oognized in Euture	Donaia	n Expense:
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(301,034) (577,067)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	ъ \$	(338,427)
◆ 2024 ◆ 2025	ֆ \$	(11,950,224)	Գ \$	(340,540)
◆ 2026	\$	6,110,282	\$	61,232
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Leic	ester Housing Authority
♦ Current Proportionate Share				0.081232%
<ul> <li>Prior Proportionate Share</li> </ul>				0.077978%
Beginning Net Pension Liability	\$	888,400,147	\$	692,756
Ending Net Pension Liability	\$	842,013,303	\$	683,981
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> </ul>	\$	- 72,402,779	\$	- 58,814
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		63,259
Total Deferred Outflows of Resources	\$	96,619,703	\$	122,073
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	14,305 96,498
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 5,614
Total Deferred Inflows of Resources	\$	160,621,785	\$	116,417
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	64,019 13,089
Total Employer Pension Expense	\$	78,810,662	\$	77,108
Covered Payroll:	\$	316,455,433	\$	224,332
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	683,981
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	862,790
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	532,891
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	2,312
◆ 2023	↓ \$	(28,185,245)	↓ \$	(3,800)
<ul><li>◆ 2024</li></ul>	\$	(16,012,907)	\$	3,092
◆ 2025	\$	(11,950,224)	\$	(4,556)
♦ 2026	\$	6,110,282	\$	8,608
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Le	icester Water District
♦ Current Proportionate Share				0.075779%
<ul> <li>Prior Proportionate Share</li> </ul>				0.078959%
Beginning Net Pension Liability	\$	888,400,147	\$	701,472
Ending Net Pension Liability	\$	842,013,303	\$	638,069
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 54,866 58,143
Total Deferred Outflows of Resources	\$	96,619,703	\$	113,009
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	13,345 90,021
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 85,507
Total Deferred Inflows of Resources	\$	160,621,785	\$	188,873
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	59,722 (33,975)
Total Employer Pension Expense	\$	78,810,662	\$	25,747
Covered Payroll:	\$	316,455,433	\$	356,489
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	638,069
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	804,876
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	497,121
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future F	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(31,500)
♦ 2023	\$	(28,185,245)	\$	(25,937)
♦ 2024	\$	(16,012,907)	\$	(15,844)
♦ 2025	\$	(11,950,224)	\$	(3,651)
♦ 2026	\$	6,110,282	\$	1,068
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Lunenburg
♦ Current Proportionate Share				2.070507%
♦ Prior Proportionate Share				2.233040%
Beginning Net Pension Liability	\$	888,400,147	\$	19,838,326
Ending Net Pension Liability	\$	842,013,303	\$	17,433,946
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,499,105 207,054
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,706,159
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	364,628 2,459,644
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 1,208,153
Total Deferred Inflows of Resources	\$	160,621,785	\$	4,032,425
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,631,780 (152,170)
Total Employer Pension Expense	\$	78,810,662	\$	1,479,610
Covered Payroll:	\$	316,455,433	\$	7,238,609
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$ \$	17,433,946 21,991,613 13,582,822
Deferred Outflows of Resources and Deferred Inflows of Resources	roop Do	oognized in Euture I	Donoio	
◆ 2022	s	(13,963,988)	\$	(458,673)
◆ 2022 ◆ 2023	ъ \$	(28,185,245)	э \$	(458,673) (777,674)
◆ 2024	↓ \$	(16,012,907)	↓ \$	(539,763)
◆ 2025	\$	(11,950,224)	\$	(494,549)
♦ 2026	\$	6,110,282	\$	(55,607)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wa	rcester Regional Retirement System	Lune	nburg Housing Authority
♦ Current Proportionate Share				0.003208%
<ul> <li>Prior Proportionate Share</li> </ul>				0.002700%
Beginning Net Pension Liability	\$	888,400,147	\$	23,983
Ending Net Pension Liability	\$	842,013,303	\$	27,009
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 2,322 5,261
Total Deferred Outflows of Resources	\$	96,619,703	\$	7,583
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	565 3,811
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 6,043
Total Deferred Inflows of Resources	\$	160,621,785	\$	10,419
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	2,528 (5,473)
Total Employer Pension Expense	\$	78,810,662	\$	(2,945)
Covered Payroll:	\$	316,455,433	\$	42,337
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e.		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	27,009
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	↓ \$	34,070
<ul> <li>♦ 1% accrease in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	21,043
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(4,659)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	↓ \$	(4,839)
<ul><li>◆ 2024</li></ul>	\$	(16,012,907)	\$	589
◆ 2025	\$	(11,950,224)	\$	321
♦ 2026	\$	6,110,282	\$	763
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Lun	enburg Water District
♦ Current Proportionate Share				0.090272%
<ul> <li>Prior Proportionate Share</li> </ul>				0.098797%
Beginning Net Pension Liability	\$	888,400,147	\$	877,716
Ending Net Pension Liability	\$	842,013,303	\$	760,101
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 65,359 48,668
Total Deferred Outflows of Resources	\$	96,619,703	\$	114,027
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	15,897 107,238
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 73,530
Total Deferred Inflows of Resources	\$	160,621,785	\$	196,665
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	71,144 (5,874)
Total Employer Pension Expense	\$	78,810,662	\$	65,270
Covered Payroll:	\$	316,455,433	\$	297,133
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	<b>-</b> .		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	760,101
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	958,811
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	592,196
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	accornized in Future I	Pansia	n Expense:
♦ 2022	\$	(13,963,988)	\$	(19,480)
◆ 2022 ◆ 2023	ъ \$	(28,185,245)	ъ \$	(19,480) (22,738)
◆ 2023 ◆ 2024	ъ \$	(16,012,907)	ъ \$	(16,010)
◆ 2024 ◆ 2025	↓ \$	(11,950,224)	↓ \$	(20,372)
◆ 2026	\$	6,110,282	\$	(4,038)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Mendon
♦ Current Proportionate Share				1.120460%
<ul> <li>Prior Proportionate Share</li> </ul>				1.066926%
Beginning Net Pension Liability	\$	888,400,147	\$	9,478,575
Ending Net Pension Liability	\$	842,013,303	\$	9,434,419
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 811,244 661,923
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,473,167
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	197,320 1,331,042
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 37,316
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,565,678
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	883,042 231,691
Total Employer Pension Expense	\$	78,810,662	\$	1,114,733
Covered Payroll:	\$	316,455,433	\$	2,943,927
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	e: 842,013,303 1,062,136,523 656,014,261	\$ \$ \$	9,434,419 11,900,811 7,350,375
Deferred Outflows of Resources and Deferred Inflows of Resou	roop Dr	oognized in Euture	Donala	
◆ 2022	s	(13,963,988)	\$	49,992
◆ 2022 ◆ 2023	ъ \$	(13,963,988) (28,185,245)	ъ \$	49,992 (173,580)
◆ 2023 ◆ 2024	↓ \$	(16,012,907)	↓ \$	(43,056)
◆ 2025	\$	(11,950,224)	\$	(54,315)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	128,448
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	M	Mendon-Upton Regional		
Current Proportionate Share				1.250808%		
<ul> <li>Prior Proportionate Share</li> </ul>				1.271251%		
Beginning Net Pension Liability	\$	888,400,147	\$	11,293,793		
Ending Net Pension Liability	\$	842,013,303	\$	10,531,968		
Total Deferred Outflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-		
<ul> <li>Changes of Assumptions</li> </ul>	-	72,402,779	-	905,620		
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		44,378		
Contributions and Proportionate Share of Contributions		21,210,021		11,010		
Total Deferred Outflows of Resources	\$	96,619,703	\$	949,998		
Total Deferred Inflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	220,275		
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	1,485,888		
Earnings on Pension Plan Investments		110,104,210		1,400,000		
<ul> <li>Changes of Assumptions</li> </ul>		-		-		
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		211,288		
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,917,451		
Employer Pension Expense:						
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	985,770		
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ŧ	. 0,0_0,00_	Ŧ	(22,872)		
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				(22,012)		
Total Employer Pension Expense	\$	78,810,662	\$	962,898		
Covered Payroll:	\$	316,455,433	\$	4,375,793		
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:				
◆ Current discount rate: 7.25%	\$	842,013,303	\$	10,531,968		
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	13,285,286		
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	8,205,477		
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:		
♦ 2022	\$	(13,963,988)	\$	(193,522)		
<ul><li>◆ 2023</li></ul>	\$	(28,185,245)	\$	(399,930)		
♦ 2024	\$	(16,012,907)	\$	(238,577)		
♦ 2025	\$	(11,950,224)	\$	(188,946)		
♦ 2026	\$	6,110,282	\$	53,522		
♦ Thereafter	\$	-	\$	-		

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Millbury
Current Proportionate Share				2.975708%
<ul> <li>Prior Proportionate Share</li> </ul>				3.013476%
Beginning Net Pension Liability	\$	888,400,147	\$	26,771,725
Ending Net Pension Liability	\$	842,013,303	\$	25,055,853
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 2,154,495 96,126
Total Deferred Outflows of Resources	\$	96,619,703	\$	2,250,621
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	524,040 3,534,970
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 844,968
Total Deferred Inflows of Resources	\$	160,621,785	\$	4,903,978
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	2,345,175 (199,793)
Total Employer Pension Expense	\$	78,810,662	\$	2,145,382
Covered Payroll:	\$	316,455,433	\$	7,645,397
Sensitivity of the Net Pension Liability to Changes in the Discou		):	•	05 055 050
<ul> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> </ul>	\$ ¢	842,013,303 1,062,136,523	\$ \$	25,055,853
<ul> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	\$ \$	656,014,261	э \$	31,606,076 19,521,066
		000,017,201	Ψ	10,021,000
		=	_	_
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	-		
♦ 2022	rces Re \$	(13,963,988)	\$	(628,263)
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	rces Re \$ \$	(13,963,988) (28,185,245)	\$ \$	(628,263) (1,079,310)
<ul><li>◆ 2022</li><li>◆ 2023</li><li>◆ 2024</li></ul>	rces Re \$ \$ \$	(13,963,988) (28,185,245) (16,012,907)	\$ \$ \$	(628,263) (1,079,310) (683,046)
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	rces Re \$ \$	(13,963,988) (28,185,245)	\$ \$	(628,263) (1,079,310)

Pension Amounts as of December 31, 2021	Wa	rcester Regional Retirement System	Mil	Millbury Housing Authority		
♦ Current Proportionate Share				0.156054%		
♦ Prior Proportionate Share				0.159506%		
Beginning Net Pension Liability	\$	888,400,147	\$	1,417,050		
Ending Net Pension Liability	\$	842,013,303	\$	1,313,999		
Total Deferred Outflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-		
<ul> <li>♦ Changes of Assumptions</li> </ul>	•	72,402,779	·	112,988		
		24,216,924		3,887		
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,210,924		3,861		
Total Deferred Outflows of Resources	\$	96,619,703	\$	116,875		
Total Deferred Inflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	27,482		
	Ψ		Ψ	185,384		
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		118,794,275		100,304		
<ul> <li>Changes of Assumptions</li> </ul>		-		-		
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		42,336		
Total Deferred Inflows of Resources	\$	160,621,785	\$	255,202		
Employer Pension Expense:						
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	122,988		
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ψ	10,010,002	Ŷ	(10,681)		
Proportion and Differences Between Employer Contributions		-		(10,081)		
and Proportionate Share of Contributions						
Total Employer Pension Expense	\$	78,810,662	\$	112,307		
Covered Payroll:	\$	316,455,433	\$	398,065		
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:				
◆ Current discount rate: 7.25%	\$	842,013,303	\$	1,313,999		
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	1,657,512		
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	1,023,740		
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:		
♦ 2022	\$	(13,963,988)	\$	(32,728)		
◆ 2023	\$	(28,185,245)	\$	(54,163)		
♦ 2024	\$	(16,012,907)	\$	(33,751)		
♦ 2025	\$	(11,950,224)	\$	(23,352)		
♦ 2026	\$	6,110,282	\$	5,667		
♦ Thereafter	\$	-	\$	-		

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Millville
<ul> <li>Current Proportionate Share</li> </ul>				0.286486%
<ul> <li>Prior Proportionate Share</li> </ul>				0.282048%
Beginning Net Pension Liability	\$	888,400,147	\$	2,505,715
Ending Net Pension Liability	\$	842,013,303	\$	2,412,254
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 207,424 164,381
Total Deferred Outflows of Resources	\$	96,619,703	\$	371,805
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	50,452 340,329
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 130,418
Total Deferred Inflows of Resources	\$	160,621,785	\$	521,199
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	225,782 39,221
Total Employer Pension Expense	\$	78,810,662	\$	265,003
Covered Payroll:	\$	316,455,433	\$	672,889
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	2,412,254
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	3,042,877
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	1,879,392
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	accornized in Future I	Pansio	n Evnense:
◆ 2022	\$	(13,963,988)	\$	(2,818)
<ul> <li>◆ 2022</li> <li>◆ 2023</li> </ul>	ъ \$	(13,963,988) (28,185,245)	ъ \$	(86,004)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	э \$	(38,271)
• 2024 • 2025	Գ \$	(11,950,224)	⊅ \$	(44,777)
◆ 2026	\$	6,110,282	\$	22,476
◆ Thereafter	\$		\$	-

Pension Amounts as of December 31, 2021	Wa	rcester Regional Retirement System	N	arragansett Regional
♦ Current Proportionate Share				0.764147%
<ul> <li>Prior Proportionate Share</li> </ul>				0.655163%
Beginning Net Pension Liability	\$	888,400,147	\$	5,820,472
Ending Net Pension Liability	\$	842,013,303	\$	6,434,221
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
♦ Changes of Assumptions		72,402,779		553,264
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		810,111
Contributions and Proportionate Share of Contributions		27,210,027		010,111
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,363,375
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	134,571
Net Difference Between Projected and Actual Investment	Ψ	118,794,275	Ψ	907,763
Earnings on Pension Plan Investments		110,794,275		907,703
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		73,865
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,116,199
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	602,229
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ŧ		Ŧ	120,145
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				120,140
Total Employer Pension Expense	\$	78,810,662	\$	722,374
Covered Payroll:	\$	316,455,433	\$	2,694,120
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	6,434,221
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	8,116,287
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	5,012,915
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	19,828
◆ 2023	\$	(28,185,245)	\$	(58,233)
◆ 2024	\$	(16,012,907)	\$	37,201
♦ 2025	\$	(11,950,224)	\$	79,570
♦ 2026	\$	6,110,282	\$	168,810
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Nas	shoba Regional
♦ Current Proportionate Share				1.637621%
♦ Prior Proportionate Share				1.703632%
Beginning Net Pension Liability	\$	888,400,147	\$	15,135,073
Ending Net Pension Liability	\$	842,013,303	\$	13,788,983
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,185,683 193,984
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,379,667
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	288,395 1,945,399
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 746,344
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,980,138
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,290,620 15,768
Total Employer Pension Expense	\$	78,810,662	\$	1,306,388
Covered Payroll:	\$	316,455,433	\$	6,571,236
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	int Rate \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$ \$	13,788,983 17,393,766 10,743,025
Deferred Outflows of Resources and Deferred Inflows of Resou		oodnized in Euture I	Donela	n Expense:
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(232,607) (656,922)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	э \$	(432,712)
• 2024 • 2025	Գ \$	(11,950,224)	Գ \$	(304,327)
◆ 2026	\$	6,110,282	\$	26,097
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Na	shoba Valley Dispatch
♦ Current Proportionate Share				0.075963%
<ul> <li>Prior Proportionate Share</li> </ul>				0.063469%
Beginning Net Pension Liability	\$	888,400,147	\$	563,859
Ending Net Pension Liability	\$	842,013,303	\$	639,618
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 54,999 299,003
Total Deferred Outflows of Resources	\$	96,619,703	\$	354,002
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	13,378 90,240
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 3,175
Total Deferred Inflows of Resources	\$	160,621,785	\$	106,793
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	59,867 105,446
Total Employer Pension Expense	\$	78,810,662	\$	165,313
Covered Payroll:	\$	316,455,433	\$	976,558
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	9:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	639,618
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	806,830
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	498,328
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensior	Fynense
◆ 2022	\$	(13,963,988)	\$	94,839
<ul> <li>◆ 2022</li> <li>◆ 2023</li> </ul>	ъ \$	(28,185,245)	э \$	94,839 77,673
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	ъ \$	46,026
• 2024 • 2025	.⊅ \$	(11,950,224)	.⊅ \$	10,032
◆ 2026	↓ \$	6,110,282	↓ \$	18,639
Thereafter	\$		\$	

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	N	ew Braintree
♦ Current Proportionate Share				0.089056%
Prior Proportionate Share				0.095537%
Beginning Net Pension Liability	\$	888,400,147	\$	848,753
Ending Net Pension Liability	\$	842,013,303	\$	749,865
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
♦ Changes of Assumptions		72,402,779		64,479
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		23,711
Total Deferred Outflows of Resources	\$	96,619,703	\$	88,190
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	15,683
	φ	118,794,275	φ	
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		110,794,275		105,794
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		88,499
Total Deferred Inflows of Resources	\$	160,621,785	\$	209,976
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	70,186
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	·	-		(50,184)
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				(00,101)
Total Employer Pension Expense	\$	78,810,662	\$	20,002
Covered Payroll:	\$	316,455,433	\$	212,728
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	9:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	749,865
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	945,898
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	584,221
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(54,492)
◆ 2023	\$	(28,185,245)	\$	(27,074)
♦ 2024	\$	(16,012,907)	\$	(18,412)
♦ 2025	\$	(11,950,224)	\$	(19,985)
♦ 2026	\$	6,110,282	\$	(1,823)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Northboro
♦ Current Proportionate Share				3.446106%
<ul> <li>Prior Proportionate Share</li> </ul>				3.502615%
Beginning Net Pension Liability	\$	888,400,147	\$	31,117,235
Ending Net Pension Liability	\$	842,013,303	\$	29,016,674
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 2,495,077 600,503
Total Deferred Outflows of Resources	\$	96,619,703	\$	3,095,580
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	606,880 4,093,777
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 420,045
Total Deferred Inflows of Resources	\$	160,621,785	\$	5,120,702
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	2,715,899 175,380
Total Employer Pension Expense	\$	78,810,662	\$	2,891,279
Covered Payroll:	\$	316,455,433	\$	11,039,627
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	э:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	29,016,674
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	36,602,354
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	22,606,949
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future l	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(331,637)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	↓ \$	(864,686)
◆ 2024	\$	(16,012,907)	\$	(499,452)
◆ 2025	\$	(11,950,224)	\$	(476,596)
♦ 2026	\$	6,110,282	\$	147,249
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Nort	hboro Housing Authority
♦ Current Proportionate Share				0.109817%
<ul> <li>Prior Proportionate Share</li> </ul>				0.111843%
Beginning Net Pension Liability	\$	888,400,147	\$	993,617
Ending Net Pension Liability	\$	842,013,303	\$	924,674
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
♦ Changes of Assumptions		72,402,779		79,511
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		9,066
Total Deferred Outflows of Resources	\$	96,619,703	\$	88,577
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	19,339
	Ψ		Ψ	
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		118,794,275		130,456
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		17,342
Total Deferred Inflows of Resources	\$	160,621,785	\$	167,137
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	86,548
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ψ	10,010,002	Ŷ	4,120
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		4,120
Total Employer Pension Expense	\$	78,810,662	\$	90,668
Covered Payroll:	\$	316,455,433	\$	403,318
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	924,674
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	1,166,407
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	720,416
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(12,027)
◆ 2023	↓ \$	(28,185,245)	↓ \$	(34,352)
♦ 2024	\$	(16,012,907)	\$	(20,747)
♦ 2025	\$	(11,950,224)	\$	(15,874)
♦ 2026	\$	6,110,282	\$	4,440
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Northboro- hboro Regional
♦ Current Proportionate Share				0.701794%
<ul> <li>Prior Proportionate Share</li> </ul>				0.646198%
Beginning Net Pension Liability	\$	888,400,147	\$	5,740,822
Ending Net Pension Liability	\$	842,013,303	\$	5,909,200
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
<ul> <li>Changes of Assumptions</li> </ul>		72,402,779		508,118
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		544,739
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,052,857
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	123,590
♦ Net Difference Between Projected and Actual Investment	·	118,794,275	·	833,691
Earnings on Pension Plan Investments		110,10 1,210		000,001
♦ Changes of Assumptions		-		-
<ul> <li>Changes in Proportion and Differences Between Employer</li> <li>Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		34,510
Total Deferred Inflows of Resources	\$	160,621,785	\$	991,791
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	553,089
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>		- -		178,304
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	78,810,662	\$	731,393
Covered Payroll:	\$	316,455,433	\$	3,085,947
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	э:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	5,909,200
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	7,454,012
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	4,603,869
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	70,418
♦ 2023	\$	(28,185,245)	\$	(101,614)
♦ 2024	\$	(16,012,907)	\$	(12,926)
♦ 2025	\$	(11,950,224)	\$	10
◆ 2026	\$	6,110,282	\$	105,178
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	No	rth Brookfield
♦ Current Proportionate Share				0.894649%
♦ Prior Proportionate Share				0.844393%
Beginning Net Pension Liability	\$	888,400,147	\$	7,501,589
Ending Net Pension Liability	\$	842,013,303	\$	7,533,067
<ul> <li>Total Deferred Outflows of Resources:</li> <li>♦ Differences Between Expected and Actual Experience</li> <li>♦ Changes of Assumptions</li> </ul>	\$	- 72,402,779	\$	- 647,751
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		719,064
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,366,815
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	157,553 1,062,792
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 54,446
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,274,791
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	705,079 156,405
Total Employer Pension Expense	\$	78,810,662	\$	861,484
Covered Payroll:	\$	316,455,433	\$	2,790,288
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	7,533,067
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	9,502,399
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	5,869,028
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	35,829
◆ 2023	Ψ \$	(28,185,245)	↓ \$	(55,745)
◆ 2024	\$	(16,012,907)	\$	32,091
◆ 2025	\$	(11,950,224)	\$	(31,127)
♦ 2026	\$	6,110,282	\$	110,976
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		rth Brookfield Ising Authority
♦ Current Proportionate Share				0.029611%
<ul> <li>Prior Proportionate Share</li> </ul>				0.027301%
Beginning Net Pension Liability	\$	888,400,147	\$	242,541
Ending Net Pension Liability	\$	842,013,303	\$	249,325
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 21,439 23,760
Total Deferred Outflows of Resources	\$	96,619,703	\$	45,199
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	5,215 35,176
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 24,474
Total Deferred Inflows of Resources	\$	160,621,785	\$	64,865
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	23,336 (1,658)
Total Employer Pension Expense	\$	78,810,662	\$	21,678
Covered Payroll:	\$	316,455,433	\$	58,048
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	249,325
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	314,504
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	194,249
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
◆ 2022	\$	(13,963,988)	\$	(6,398)
◆ 2023	↓ \$	(28,185,245)	↓ \$	(11,194)
◆ 2024	\$	(16,012,907)	\$	(7,308)
♦ 2025	\$	(11,950,224)	\$	836
♦ 2026	\$	6,110,282	\$	4,398
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Oakham
♦ Current Proportionate Share				0.104250%
<ul> <li>Prior Proportionate Share</li> </ul>				0.116820%
Beginning Net Pension Liability	\$	888,400,147	\$	1,037,833
Ending Net Pension Liability	\$	842,013,303	\$	877,795
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Properties and Differences Between Employer</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 75,480 6,976
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,210,924		0,970
Total Deferred Outflows of Resources	\$	96,619,703	\$	82,456
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	18,359 123,842
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 115,116
Total Deferred Inflows of Resources	\$	160,621,785	\$	257,317
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	82,160 (42,733)
Total Employer Pension Expense	\$	78,810,662	\$	39,427
Covered Payroll:	\$	316,455,433	\$	275,760
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> </ul>	int Rate \$ \$	e: 842,013,303 1,062,136,523	\$ \$	877,795 1,107,272
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	683,892
Deferred Outflows of Resources and Deferred Inflows of Resou				
• 2022 - 2023	\$	(13,963,988)	\$	(53,416)
<ul><li>◆ 2023</li><li>◆ 2024</li></ul>	\$ ¢	(28,185,245)	\$ ¢	(47,258)
<ul> <li>◆ 2024</li> <li>◆ 2025</li> </ul>	\$ \$	(16,012,907) (11,950,224)	\$ \$	(34,516) (31,952)
• 2025 • 2026	Գ \$	6,110,282	⊅ \$	(7,719)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Oxford
♦ Current Proportionate Share				3.348789%
♦ Prior Proportionate Share				3.252998%
Beginning Net Pension Liability	\$	888,400,147	\$	28,899,637
Ending Net Pension Liability	\$	842,013,303	\$	28,197,247
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 2,424,616 851,630
Total Deferred Outflows of Resources	\$	96,619,703	\$	3,276,246
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	589,741 3,978,169
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 1,017,317
Total Deferred Inflows of Resources	\$	160,621,785	\$	5,585,227
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	2,639,203 (390,170)
Total Employer Pension Expense	\$	78,810,662	\$	2,249,033
Covered Payroll:	\$	316,455,433	\$	9,604,348
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	э:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	28,197,247
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	35,568,709
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	21,968,532
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future l	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(802,561)
◆ 2023	↓ \$	(28,185,245)	↓ \$	(974,798)
◆ 2024	\$	(16,012,907)	\$	(592,114)
◆ 2025	\$	(11,950,224)	\$	(251,464)
♦ 2026	\$	6,110,282	\$	311,956
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	0x	ford Housing Authority
♦ Current Proportionate Share				0.116287%
<ul> <li>Prior Proportionate Share</li> </ul>				0.124570%
Beginning Net Pension Liability	\$	888,400,147	\$	1,106,680
Ending Net Pension Liability	\$	842,013,303	\$	979,149
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
♦ Changes of Assumptions		72,402,779		84,195
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		85,020
Contributions and Proportionate Share of Contributions		21,210,021		00,020
Total Deferred Outflows of Resources	\$	96,619,703	\$	169,215
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	20,479
	Ψ		Ψ	
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		118,794,275		138,142
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		64,678
Total Deferred Inflows of Resources	\$	160,621,785	\$	223,299
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	91,646
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ψ	10,010,002	Ψ	13,747
Net Amontzation of Defended Amounts from Changes in     Proportion and Differences Between Employer Contributions		-		13,747
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	78,810,662	\$	105,393
Covered Payroll:	\$	316,455,433	\$	275,930
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	979,149
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	1,235,122
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	762,857
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future F	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(2,297)
♦ 2023	\$	(28,185,245)	\$	(15,848)
♦ 2024	\$	(16,012,907)	\$	(6,971)
♦ 2025	\$	(11,950,224)	\$	(26,793)
◆ 2026	\$	6,110,282	\$	(2,175)
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		ord-Rochdale ewer District
♦ Current Proportionate Share				0.057009%
<ul> <li>Prior Proportionate Share</li> </ul>				0.056234%
Beginning Net Pension Liability	\$	888,400,147	\$	499,582
Ending Net Pension Liability	\$	842,013,303	\$	480,021
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 41,276 37,188
Total Deferred Outflows of Resources	\$	96,619,703	\$	78,464
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	10,040 67,723
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		-
Total Deferred Inflows of Resources	\$	160,621,785	\$	77,763
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	44,929 26,379
Total Employer Pension Expense	\$	78,810,662	\$	71,308
Covered Payroll:	\$	316,455,433	\$	86,726
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	480,021
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	605,510
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	373,985
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	14,925
◆ 2022 ◆ 2023	ъ \$	(28,185,245)	э \$	(9,584)
◆ 2023 ◆ 2024	↓ \$	(16,012,907)	↓ \$	(3,863)
◆ 2025	↓ \$	(11,950,224)	↓ \$	(5,125)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	4,348
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Paxton
Current Proportionate Share				1.236297%
Prior Proportionate Share	*	000 400 447	*	1.245167%
Beginning Net Pension Liability	\$	888,400,147	\$	11,062,069
Ending Net Pension Liability	\$	842,013,303	\$	10,409,788
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 895,114 528,792
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,423,906
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	217,719 1,468,650
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 158,636
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,845,005
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	974,334 304,213
Total Employer Pension Expense	\$	78,810,662	\$	1,278,547
Covered Payroll:	\$	316,455,433	\$	3,586,488
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$ \$	10,409,788 13,131,165 8,110,286
Deferred Outflows of Resources and Deferred Inflows of Resou		openized in Future	Donala	p Evpopee:
♦ 2022		(13,963,988)		97,842
◆ 2022 ◆ 2023	\$ \$	(13,963,988) (28,185,245)	\$ \$	97,842 (274,628)
◆ 2023 ◆ 2024	↓ \$	(16,012,907)	↓ \$	(134,077)
◆ 2025	↓ \$	(11,950,224)	↓ \$	(175,840)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	65,604
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Petersham
<ul> <li>Current Proportionate Share</li> </ul>				0.250846%
<ul> <li>Prior Proportionate Share</li> </ul>				0.259868%
Beginning Net Pension Liability	\$	888,400,147	\$	2,308,672
Ending Net Pension Liability	\$	842,013,303	\$	2,112,155
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
Changes of Assumptions	·	72,402,779	·	181,619
		24,216,924		101,010
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,210,924		-
Total Deferred Outflows of Resources	\$	96,619,703	\$	181,619
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	44,175
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	297,990
Earnings on Pension Plan Investments		110,794,275		291,990
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		125,306
Total Deferred Inflows of Resources	\$	160,621,785	\$	467,471
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	197,693
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ŧ	10,010,002	Ŧ	(40,813)
<ul> <li>Net Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		(40,813)
Total Employer Pension Expense	\$	78,810,662	\$	156,880
Covered Payroll:	\$	316,455,433	\$	569,360
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	2,112,155
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	2,664,325
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	1,645,584
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(74,025)
♦ 2023	\$	(28,185,245)	\$	(103,732)
♦ 2024	\$	(16,012,907)	\$	(68,687)
♦ 2025	\$	(11,950,224)	\$	(44,626)
♦ 2026	\$	6,110,282	\$	5,218
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	_	Phillipston
♦ Current Proportionate Share				0.203149%
♦ Prior Proportionate Share				0.221971%
Beginning Net Pension Liability	\$	888,400,147	\$	1,971,994
Ending Net Pension Liability	\$	842,013,303	\$	1,710,544
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 147,086 12,349
Total Deferred Outflows of Resources	\$	96,619,703	\$	159,435
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	35,776 241,330
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 159,011
Total Deferred Inflows of Resources	\$	160,621,785	\$	436,117
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	160,103 (35,679)
Total Employer Pension Expense	\$	78,810,662	\$	124,424
Covered Payroll:	\$	316,455,433	\$	523,574
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	1,710,544
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	2,157,722
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	1,332,688
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(62,146)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	↓ \$	(87,797)
◆ 2024	\$	(16,012,907)	\$	(61,796)
◆ 2025	\$	(11,950,224)	\$	(56,264)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	(8,679)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Princeton
♦ Current Proportionate Share				0.638271%
<ul> <li>Prior Proportionate Share</li> </ul>				0.607734%
Beginning Net Pension Liability	\$	888,400,147	\$	5,399,113
Ending Net Pension Liability	\$	842,013,303	\$	5,374,329
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		72,402,779 24,216,924		462,126 302,514
Total Deferred Outflows of Resources	\$	96,619,703	\$	764,640
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	112,403 758,230
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 210,042
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,080,675
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	503,026 (30,309)
Total Employer Pension Expense	\$	78,810,662	\$	472,717
Covered Payroll:	\$	316,455,433	\$	2,070,683
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate			
◆ Current discount rate: 7.25%	\$	842,013,303	\$	5,374,329
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	6,779,312
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	4,187,151
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future l	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(127,439)
<ul><li>◆ 2023</li></ul>	\$	(28,185,245)	\$	(160,376)
♦ 2024	\$	(16,012,907)	\$	(83,793)
♦ 2025	\$	(11,950,224)	\$	(17,645)
♦ 2026	\$	6,110,282	\$	73,218
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Qua	abbin Regional
♦ Current Proportionate Share				1.663404%
Prior Proportionate Share				1.705700%
Beginning Net Pension Liability	\$	888,400,147	\$	15,153,444
Ending Net Pension Liability	\$	842,013,303	\$	14,006,083
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,204,351 96,328
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,300,679
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	292,935 1,976,029
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 514,463
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,783,427
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,310,940 (171,501)
Total Employer Pension Expense	\$	78,810,662	\$	1,139,439
Covered Payroll:	\$	316,455,433	\$	5,082,618
Sensitivity of the Net Pension Liability to Changes in the Discou				
◆ Current discount rate: 7.25%	\$	842,013,303	\$	14,006,083
<ul> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	\$ \$	1,062,136,523 656,014,261	\$ \$	17,667,622 10,912,168
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	cognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(384,932)
♦ 2023	\$	(28,185,245)	\$	(533,968)
♦ 2024	\$	(16,012,907)	\$	(357,556)
◆ 2025	\$	(11,950,224)	\$	(260,538)
◆ 2026 ◆ Thorsefter	\$ ¢	6,110,282	\$ ¢	54,246
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Qua	boag Regional
♦ Current Proportionate Share				0.589417%
♦ Prior Proportionate Share				0.596261%
Beginning Net Pension Liability	\$	888,400,147	\$	5,297,184
Ending Net Pension Liability	\$	842,013,303	\$	4,962,970
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
<ul> <li>Changes of Assumptions</li> </ul>		72,402,779	·	426,754
		24,216,924		21,772
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,210,924		21,112
Total Deferred Outflows of Resources	\$	96,619,703	\$	448,526
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	103,800
	Ψ		Ψ	
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		118,794,275		700,194
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		79,235
Total Deferred Inflows of Resources	\$	160,621,785	\$	883,229
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	464,524
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ŧ		Ŧ	(22,099)
Proportion and Differences Between Employer Contributions		-		(22,099)
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	78,810,662	\$	442,425
Covered Payroll:	\$	316,455,433	\$	2,662,378
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	<b>.</b>		
<ul> <li>♦ Current discount rate: 7.25%</li> </ul>	\$	842,013,303	\$	4,962,970
<ul> <li>• Current discount rate: 7.25%</li> <li>• 1% decrease in the discount rate: 6.25%</li> </ul>	ֆ \$	1,062,136,523	\$	6,260,414
<ul> <li>♦ 1% declease in the discount rate: 0.25%</li> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	3,866,660
Deferred Outflows of Resources and Deferred Inflows of Resources		-		-
♦ 2022	\$	(13,963,988)	\$	(100,128)
◆ 2023	\$	(28,185,245)	\$	(175,826)
◆ 2024 ◆ 2025	\$ ¢	(16,012,907)	\$ ¢	(102,903)
<ul> <li>◆ 2025</li> <li>◆ 2026</li> </ul>	\$ \$	(11,950,224) 6,110,282	\$ \$	(84,191) 28,345
◆ 2026 ◆ Thereafter	э \$	0,110,202	э \$	20,345
	Ψ	-	Ψ	-

Pension Amounts as of December 31, 2021	Wa	rcester Regional Retirement System		Royalston
♦ Current Proportionate Share				0.089093%
<ul> <li>Prior Proportionate Share</li> </ul>				0.093956%
Beginning Net Pension Liability	\$	888,400,147	\$	834,701
Ending Net Pension Liability	\$	842,013,303	\$	750,172
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 64,506 16,650
Total Deferred Outflows of Resources	\$	96,619,703	\$	81,156
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	15,690 105,837
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 56,565
Total Deferred Inflows of Resources	\$	160,621,785	\$	178,092
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	70,215 (16,625)
Total Employer Pension Expense	\$	78,810,662	\$	53,590
Covered Payroll:	\$	316,455,433	\$	236,706
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	750,172
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	946,286
<ul> <li>♦ 1% decrease in the discount rate: 0.25%</li> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	584,460
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(28,127)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	Ψ \$	(31,962)
◆ 2024	\$	(16,012,907)	\$	(21,344)
◆ 2025	\$	(11,950,224)	\$	(15,500)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	(3)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Rutland
♦ Current Proportionate Share				1.049371%
<ul> <li>Prior Proportionate Share</li> </ul>				1.016891%
Beginning Net Pension Liability	\$	888,400,147	\$	9,034,065
Ending Net Pension Liability	\$	842,013,303	\$	8,835,840
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 759,773 418,782
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,178,555
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	184,800 1,246,592
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 19,646
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,451,038
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	827,016 205,387
Total Employer Pension Expense	\$	78,810,662	\$	1,032,403
Covered Payroll:	\$	316,455,433	\$	4,416,481
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$	8,835,840 11,145,748 6,884,020
Deferred Outflows of Resources and Deferred Inflows of Resou	roop Dr	oognized in Euture	Donaia	
◆ 2022	s	(13,963,988)	\$	39,379
◆ 2022 ◆ 2023	э \$	(28,185,245)	э \$	(234,391)
◆ 2024	\$	(16,012,907)	\$	(102,882)
◆ 2025	\$	(11,950,224)	\$	(75,103)
♦ 2026	\$	6,110,282	\$	100,514
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Southboro
♦ Current Proportionate Share				3.139476%
♦ Prior Proportionate Share				3.226782%
Beginning Net Pension Liability	\$	888,400,147	\$	28,666,737
Ending Net Pension Liability	\$	842,013,303	\$	26,434,803
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 2,273,068 203,496
Total Deferred Outflows of Resources	\$	96,619,703	\$	2,476,564
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	552,880 3,729,517
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 648,977
Total Deferred Inflows of Resources	\$	160,621,785	\$	4,931,374
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	2,474,242 (30,337)
Total Employer Pension Expense	\$	78,810,662	\$	2,443,905
Covered Payroll:	\$	316,455,433	\$	10,275,823
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	e: 842,013,303 1,062,136,523 656,014,261	\$ \$ \$	26,434,803 33,345,517 20,595,408
Deferred Outflows of Resources and Deferred Inflows of Resou	roop Dr	and in Euture	Donoia	n Expanse
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(484,768) (965,365)
<ul> <li>≥023</li> <li>≥024</li> </ul>	ъ \$	(16,012,907)	э \$	(596,154)
◆ 2024 ◆ 2025	ֆ \$	(11,950,224)	.⊅ \$	(598,154)
◆ 2026	\$	6,110,282	\$	94,004
<ul> <li>♦ Thereafter</li> </ul>	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Sout	thboro Housing Authority
♦ Current Proportionate Share				0.041683%
♦ Prior Proportionate Share				0.024528%
Beginning Net Pension Liability	\$	888,400,147	\$	217,910
Ending Net Pension Liability	\$	842,013,303	\$	350,974
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
<ul> <li>♦ Changes of Assumptions</li> </ul>		72,402,779	·	30,179
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		127,515
Contributions and Proportionate Share of Contributions		24,210,324		127,515
Total Deferred Outflows of Resources	\$	96,619,703	\$	157,694
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	7,341
Net Difference Between Projected and Actual Investment	Ψ	118,794,275	Ψ	49,517
Earnings on Pension Plan Investments		110,704,270		40,011
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		13,687
Total Deferred Inflows of Resources	\$	160,621,785	\$	70,545
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	32,850
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ψ	10,010,002	Ψ	21,076
Proportion and Differences Between Employer Contributions				21,070
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	78,810,662	\$	53,926
Covered Payroll:	\$	316,455,433	\$	98,963
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	350,974
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	442,728
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	273,445
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	16,356
◆ 2023	\$	(28,185,245)	\$	10,841
♦ 2024	\$	(16,012,907)	\$	17,688
♦ 2025	\$	(11,950,224)	\$	20,495
♦ 2026	\$	6,110,282	\$	21,769
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Spencer
♦ Current Proportionate Share				1.477885%
<ul> <li>Prior Proportionate Share</li> </ul>				1.454106%
Beginning Net Pension Liability	\$	888,400,147	\$	12,918,280
Ending Net Pension Liability	\$	842,013,303	\$	12,443,989
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,070,030 297,264
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,367,294
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	260,264 1,755,643
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 245,683
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,261,590
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,164,731 59,287
Total Employer Pension Expense	\$	78,810,662	\$	1,224,018
Covered Payroll:	\$	316,455,433	\$	4,073,892
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$ \$	12,443,989 15,697,157 9,695,137
Deferred Outflows of Resources and Deferred Inflows of Resou	roop De	oognized in Euture I	Donoia	n Expanse:
<ul> <li>◆ 2022</li> </ul>				
◆ 2022 ◆ 2023	\$ \$	(13,963,988) (28,185,245)	\$ \$	(162,494) (453,092)
◆ 2023 ◆ 2024	\$	(16,012,907)	\$	(262,894)
◆ 2025	↓ \$	(11,950,224)	↓ \$	(132,766)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	116,950
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Spencer-East Brookfield Regional		
♦ Current Proportionate Share				0.966733%		
<ul> <li>Prior Proportionate Share</li> </ul>				0.992494%		
Beginning Net Pension Liability	\$	888,400,147	\$	8,817,317		
Ending Net Pension Liability	\$	842,013,303	\$	8,140,017		
Total Deferred Outflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-		
♦ Changes of Assumptions		72,402,779		699,941		
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		6,321		
Contributions and Proportionate Share of Contributions		27,210,027		0,021		
Total Deferred Outflows of Resources	\$	96,619,703	\$	706,262		
Total Deferred Inflows of Resources:						
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	170,247		
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	1,148,423		
Earnings on Pension Plan Investments		110,704,270		1,140,420		
<ul> <li>Changes of Assumptions</li> </ul>		-		-		
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		366,420		
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,685,090		
Employer Pension Expense:						
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	761,888		
♦ Net Amortization of Deferred Amounts from Changes in	·	-,,		(94,064)		
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				(0.,00)		
Total Employer Pension Expense	\$	78,810,662	\$	667,824		
Covered Payroll:	\$	316,455,433	\$	2,883,215		
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:				
◆ Current discount rate: 7.25%	\$	842,013,303	\$	8,140,017		
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	10,268,019		
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	6,341,903		
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:		
♦ 2022	\$	(13,963,988)	\$	(231,144)		
♦ 2023	\$	(28,185,245)	\$	(372,393)		
♦ 2024	\$	(16,012,907)	\$	(246,862)		
♦ 2025	\$	(11,950,224)	\$	(158,637)		
• 2026	\$	6,110,282	\$	30,208		
♦ Thereafter	\$	-	\$	-		

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Spe	encer Housing Authority
♦ Current Proportionate Share				0.082578%
<ul> <li>Prior Proportionate Share</li> </ul>				0.076848%
Beginning Net Pension Liability	\$	888,400,147	\$	682,719
Ending Net Pension Liability	\$	842,013,303	\$	695,322
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
<ul> <li>Changes of Assumptions</li> </ul>		72,402,779		59,789
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		69,447
Total Deferred Outflows of Resources	\$	96,619,703	\$	129,236
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	14,543
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	98,099
Earnings on Pension Plan Investments		110,794,275		98,099
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		5,733
Total Deferred Inflows of Resources	\$	160,621,785	\$	118,375
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	65,081
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ŷ	10,010,002	Ψ	12,208
Proportion and Differences Between Employer Contributions		_		12,200
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	78,810,662	\$	77,289
Covered Payroll:	\$	316,455,433	\$	249,477
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	695,322
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	877,096
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	541,727
Deferred Outflows of Resources and Deferred Inflows of Resou	Irces Re	ecognized in Future	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	1,187
<ul><li>◆ 2023</li></ul>	\$	(28,185,245)	\$	(5,038)
♦ 2024	\$	(16,012,907)	\$	2,870
♦ 2025	\$	(11,950,224)	\$	381
♦ 2026	\$	6,110,282	\$	11,461
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Sterling
Current Proportionate Share				1.699069%
<ul> <li>Prior Proportionate Share</li> </ul>				1.779236%
Beginning Net Pension Liability	\$	888,400,147	\$	15,806,738
Ending Net Pension Liability	\$	842,013,303	\$	14,306,387
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
Changes of Assumptions	Ŧ	72,402,779	Ŧ	1,230,173
		24,216,924		499,534
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,210,924		499,554
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,729,707
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	299,216
	Ŷ	118,794,275	Ψ	2,018,397
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		110,794,275		2,010,397
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		629,351
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,946,964
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	1,339,047
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		75,914
Total Employer Pension Expense	\$	78,810,662	\$	1,414,961
Covered Payroll:	\$	316,455,433	\$	5,083,398
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	<b>e:</b>		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	14,306,387
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	18,046,432
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	11,146,135
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(168,690)
♦ 2023	\$	(28,185,245)	\$	(457,809)
♦ 2024	\$	(16,012,907)	\$	(271,033)
♦ 2025	\$	(11,950,224)	\$	(333,712)
♦ 2026	\$	6,110,282	\$	13,987
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wa	rcester Regional Retirement System	Ste	rling Housing Authority
♦ Current Proportionate Share				0.015481%
<ul> <li>Prior Proportionate Share</li> </ul>				0.009285%
Beginning Net Pension Liability	\$	888,400,147	\$	82,489
Ending Net Pension Liability	\$	842,013,303	\$	130,356
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> </ul>	\$	- 72,402,779	\$	- 11,209
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		48,679
Total Deferred Outflows of Resources	\$	96,619,703	\$	59,888
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	2,726 18,391
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 28,262
Total Deferred Inflows of Resources	\$	160,621,785	\$	49,379
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	12,201 907
Total Employer Pension Expense	\$	78,810,662	\$	13,108
Covered Payroll:	\$	316,455,433	\$	51,499
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	130,356
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	164,434
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	101,560
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(1,224)
♦ 2023	\$	(28,185,245)	\$	(4,081)
♦ 2024	\$	(16,012,907)	\$	(369)
♦ 2025	\$	(11,950,224)	\$	8,295
◆ 2026	\$	6,110,282	\$	7,888
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Sturbridge
♦ Current Proportionate Share				2.264910%
<ul> <li>Prior Proportionate Share</li> </ul>				2.232371%
Beginning Net Pension Liability	\$	888,400,147	\$	19,832,383
Ending Net Pension Liability	\$	842,013,303	\$	19,070,840
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
♦ Changes of Assumptions		72,402,779		1,639,857
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		379,490
Contributions and Proportionate Share of Contributions		24,210,924		575,450
Total Deferred Outflows of Resources	\$	96,619,703	\$	2,019,347
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	398,864
	Ψ		Ψ	
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		118,794,275		2,690,583
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		322,890
Total Deferred Inflows of Resources	\$	160,621,785	\$	3,412,337
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	1,784,990
	Ψ	10,010,002	Ψ	
<ul> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		87,794
Total Employer Pension Expense	\$	78,810,662	\$	1,872,784
Covered Payroll:	\$	316,455,433	\$	8,005,823
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	19,070,840
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	24,056,432
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	14,858,130
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(242,681)
◆ 2023	\$	(28,185,245)	\$	(697,524)
♦ 2024	\$	(16,012,907)	\$	(387,385)
♦ 2025	\$	(11,950,224)	\$	(240,253)
♦ 2026	\$	6,110,282	\$	174,853
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Sutton
♦ Current Proportionate Share				1.919406%
♦ Prior Proportionate Share				1.954195%
Beginning Net Pension Liability	\$	888,400,147	\$	17,361,071
Ending Net Pension Liability	\$	842,013,303	\$	16,161,656
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,389,703 203,566
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,593,269
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	338,019 2,280,145
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 258,596
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,876,760
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,512,697 37,012
Total Employer Pension Expense	\$	78,810,662	\$	1,549,709
Covered Payroll:	\$	316,455,433	\$	7,423,699
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	16,161,656
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	20,386,715
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	12,591,579
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(237,314)
◆ 2023	\$	(28,185,245)	\$	(535,301)
◆ 2024	\$	(16,012,907)	\$	(314,370)
♦ 2025	\$	(11,950,224)	\$	(274,804)
♦ 2026	\$	6,110,282	\$	78,298
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Tant	tasqua Regional
♦ Current Proportionate Share				1.107841%
♦ Prior Proportionate Share				1.180695%
Beginning Net Pension Liability	\$	888,400,147	\$	10,489,295
Ending Net Pension Liability	\$	842,013,303	\$	9,328,169
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 802,108 259,597
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,061,705
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	195,097 1,316,052
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 556,813
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,067,962
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	873,097 (28,261)
Total Employer Pension Expense	\$	78,810,662	\$	844,836
Covered Payroll:	\$	316,455,433	\$	3,882,646
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	e: 842,013,303 1,062,136,523 656,014,261	\$ \$ \$	9,328,169 11,766,785 7,267,596
Deferred Outflewe of Decourses and Deferred Information			Densi	
Deferred Outflows of Resources and Deferred Inflows of Resou				
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(181,215) (358,277)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	ъ \$	(224,347)
<ul> <li>2024</li> <li>◆ 2025</li> </ul>	.⊅ \$	(11,950,224)	Գ \$	(224,347)
◆ 2026	\$	6,110,282	\$	(13,941)
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Templeton
♦ Current Proportionate Share				1.304400%
♦ Prior Proportionate Share				1.318915%
Beginning Net Pension Liability	\$	888,400,147	\$	11,717,239
Ending Net Pension Liability	\$	842,013,303	\$	10,983,225
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 944,422 60,951
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,005,373
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	229,713 1,549,553
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 213,251
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,992,517
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,028,007 (74,912)
Total Employer Pension Expense	\$	78,810,662	\$	953,095
Covered Payroll:	\$	316,455,433	\$	3,861,532
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$ \$	10,983,225 13,854,514 8,557,053
Deferred Outflows of Descurses and Deferred Inflows of Descurses		and the Posterna I	Donala	
<ul> <li>Deferred Outflows of Resources and Deferred Inflows of Resources</li> <li>2022</li> </ul>				
<ul> <li>◆ 2022</li> <li>◆ 2023</li> </ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(253,435) (391,831)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	э \$	(235,725)
◆ 2024 ◆ 2025	↓ \$	(11,950,224)	↓ \$	(169,589)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	63,436
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Worcester Regional Retirement System		Templeton Housing Authority		
♦ Current Proportionate Share				0.074067%	
♦ Prior Proportionate Share				0.068951%	
Beginning Net Pension Liability	\$	888,400,147	\$	612,565	
Ending Net Pension Liability	\$	842,013,303	\$	623,654	
Total Deferred Outflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-	
<ul> <li>Changes of Assumptions</li> </ul>	•	72,402,779	Ŧ	53,627	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		38,026	
Total Deferred Outflows of Resources	\$	96,619,703	\$	91,653	
Total Deferred Inflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	13,044	
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	87,987	
Earnings on Pension Plan Investments		110,794,275		61,961	
<ul> <li>Changes of Assumptions</li> </ul>		-		-	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		20,591	
Total Deferred Inflows of Resources	\$	160,621,785	\$	121,622	
Employer Pension Expense:					
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	58,373	
	Ψ	10,010,002	Ψ		
Net Amortization of Deferred Amounts from Changes in     Departing and Differences Between Employer Contributions		-		(963)	
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions					
	<u>ф</u>	79 940 660	<u></u>	E7 440	
Total Employer Pension Expense	\$	78,810,662	\$	57,410	
Covered Payroll:	\$	316,455,433	\$	98,835	
Sensitivity of the Net Pension Liability to Changes in the Discou		e:			
♦ Current discount rate: 7.25%	\$	842,013,303	\$	623,654	
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	786,692	
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	485,890	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:	
♦ 2022	\$	(13,963,988)	\$	(10,086)	
♦ 2023	\$	(28,185,245)	\$	(19,353)	
♦ 2024	\$	(16,012,907)	\$	(8,179)	
♦ 2025	\$	(11,950,224)	\$	(2,611)	
◆ 2026	\$	6,110,282	\$	10,260	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Upton
♦ Current Proportionate Share				1.024691%
<ul> <li>Prior Proportionate Share</li> </ul>				1.035698%
Beginning Net Pension Liability	\$	888,400,147	\$	9,201,143
Ending Net Pension Liability	\$	842,013,303	\$	8,628,031
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
Changes of Assumptions	·	72,402,779	•	741,904
		24,216,924		187,859
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,210,924		107,009
Total Deferred Outflows of Resources	\$	96,619,703	\$	929,763
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience	\$	17,610,586	\$	180,454
	Ψ	118,794,275	Ψ	1,217,274
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		110,794,275		1,211,214
<ul> <li>Changes of Assumptions</li> </ul>		-		-
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		81,822
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,479,550
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	807,565 122,549
Total Employer Pension Expense	\$	78,810,662	\$	930,114
Covered Payroll:	\$	316,455,433	\$	4,109,441
Sensitivity of the Net Pension Liability to Changes in the Disco	unt Rate	<u>;</u>		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	8,628,031
<ul> <li>1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	↓ \$	10,883,613
<ul> <li>1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	6,722,116
Deferred Outflows of Resources and Deferred Inflows of Resou			Doneio	
◆ 2022		(13,963,988)		
<ul> <li>2022</li> <li>◆ 2023</li> </ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(38,319) (271,479)
<ul> <li>2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	ъ \$	(153,945)
<ul><li>≥024</li><li>≥025</li></ul>	Գ \$	(11,950,224)	⊅ \$	(136,323)
◆ 2025 ◆ 2026	↓ \$	6,110,282	Ψ \$	50,279
Thereafter	\$		\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Uxbridge
♦ Current Proportionate Share				2.967660%
♦ Prior Proportionate Share				3.048999%
Beginning Net Pension Liability	\$	888,400,147	\$	27,087,311
Ending Net Pension Liability	\$	842,013,303	\$	24,988,090
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 2,148,668 107,440
Total Deferred Outflows of Resources	\$	96,619,703	\$	2,256,108
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	522,622 3,525,410
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 995,746
Total Deferred Inflows of Resources	\$	160,621,785	\$	5,043,778
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	2,338,832 (245,595)
Total Employer Pension Expense	\$	78,810,662	\$	2,093,237
Covered Payroll:	\$	316,455,433	\$	9,275,796
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	24,988,090
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	31,520,599
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	19,468,272
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensic	n Expense:
♦ 2022	\$	(13,963,988)	\$	(711,373)
◆ 2022 ◆ 2023	↓ \$	(28,185,245)	↓ \$	(1,031,973)
◆ 2024	\$	(16,012,907)	\$	(666,892)
◆ 2025	\$	(11,950,224)	\$	(467,623)
<ul><li>◆ 2026</li></ul>	\$	6,110,282	\$	90,191
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	orcester Regional Retirement System	Uxb	ridge Housing Authority
♦ Current Proportionate Share				0.093979%
♦ Prior Proportionate Share				0.088977%
Beginning Net Pension Liability	\$	888,400,147	\$	790,472
Ending Net Pension Liability	\$	842,013,303	\$	791,312
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 68,043 56,054
Total Deferred Outflows of Resources	\$	96,619,703	\$	124,097
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> <li>Changes of Assumptions</li> </ul>	\$	17,610,586 118,794,275 -	\$	16,550 111,641
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		24,072
Total Deferred Inflows of Resources	\$	160,621,785	\$	152,263
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	74,065 (12,871)
Total Employer Pension Expense	\$	78,810,662	\$	61,194
Covered Payroll:	\$	316,455,433	\$	218,097
Sensitivity of the Net Pension Liability to Changes in the Discou	Int Rat	e:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	791,312
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	998,181
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	616,513
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	acognized in Future I	Densio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(22,549)
◆ 2022 ◆ 2023	ъ \$	(13,963,988) (28,185,245)	ъ \$	(22,549) (12,130)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	ъ \$	(12,130) (2,719)
<ul> <li>≥024</li> <li>≥2025</li> </ul>	ծ \$	(11,950,224)	э \$	(2,119) (2,112)
◆ 2026	↓ \$	6,110,282	Ψ \$	11,344
◆ Thereafter	\$		\$	

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Wac	husett Regional
♦ Current Proportionate Share				3.178198%
<ul> <li>Prior Proportionate Share</li> </ul>				3.094171%
Beginning Net Pension Liability	\$	888,400,147	\$	27,488,623
Ending Net Pension Liability	\$	842,013,303	\$	26,760,851
Total Deferred Outflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-
♦ Changes of Assumptions		72,402,779		2,301,104
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		1,018,373
Total Deferred Outflows of Resources	\$	96,619,703	\$	3,319,477
Total Defended Outflows of Resources	Ψ	30,013,703	Ψ	3,313,411
Total Deferred Inflows of Resources:				
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	559,699
<ul> <li>Net Difference Between Projected and Actual Investment</li> </ul>		118,794,275		3,775,517
Earnings on Pension Plan Investments				
♦ Changes of Assumptions		-		-
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		835,287
Contributions and Proportionate Share of Contributions		21,210,021		000,201
Total Deferred Inflows of Resources	\$	160,621,785	\$	5,170,503
Employer Pension Expense:				
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	2,504,759
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ŧ	-	•	198,334
Proportion and Differences Between Employer Contributions				100,001
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	78,810,662	\$	2,703,093
Covered Payroll:	\$	316,455,433	\$	11,100,577
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	26,760,851
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	33,756,804
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	20,849,433
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	(226,527)
<ul><li>◆ 2023</li></ul>	\$	(28,185,245)	\$	(1,064,537)
♦ 2024	\$	(16,012,907)	\$	(596,370)
♦ 2025	\$	(11,950,224)	\$	(251,942)
♦ 2026	\$	6,110,282	\$	288,350
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Warren
♦ Current Proportionate Share				0.625799%
<ul> <li>Prior Proportionate Share</li> </ul>				0.598573%
Beginning Net Pension Liability	\$	888,400,147	\$	5,317,720
Ending Net Pension Liability	\$	842,013,303	\$	5,269,309
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 453,096 270,452
Total Deferred Outflows of Resources	\$	96,619,703	\$	723,548
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	110,207 743,413
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 213,101
Total Deferred Inflows of Resources	\$	160,621,785	\$	1,066,721
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	493,196 40,787
Total Employer Pension Expense	\$	78,810,662	\$	533,983
Covered Payroll:	\$	316,455,433	\$	1,604,580
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$ \$	5,269,309 6,646,837 4,105,329
Deferred Outflows of Resources and Deferred Inflows of Resou	roop Dr	oognized in Euture	Donaia	
◆ 2022	s	(13,963,988)	\$	(53,374)
◆ 2022 ◆ 2023	э \$	(28,185,245)	э \$	(208,530)
◆ 2024	↓ \$	(16,012,907)	Ψ \$	(113,066)
◆ 2025	\$	(11,950,224)	\$	(36,951)
♦ 2026	\$	6,110,282	\$	68,748
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wa	orcester Regional Retirement System	V	Varren Water District
♦ Current Proportionate Share				0.029993%
♦ Prior Proportionate Share				0.029001%
Beginning Net Pension Liability	\$	888,400,147	\$	257,649
Ending Net Pension Liability	\$	842,013,303	\$	252,547
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 21,716 17,939
Total Deferred Outflows of Resources	\$	96,619,703	\$	39,655
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	5,282 35,630
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 1,791
Total Deferred Inflows of Resources	\$	160,621,785	\$	42,703
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	23,638 7,682
Total Employer Pension Expense	\$	78,810,662	\$	31,320
Covered Payroll:	\$	316,455,433	\$	95,215
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	252,547
<ul> <li>♦ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	318,569
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	196,760
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future F	Pensio	n Expense:
♦ 2022	\$	(13,963,988)	\$	3,045
◆ 2023	\$	(28,185,245)	\$	(5,214)
<ul><li>◆ 2024</li></ul>	\$	(16,012,907)	\$	(1,601)
♦ 2025	\$	(11,950,224)	\$	(2,224)
♦ 2026	\$	6,110,282	\$	2,946
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		Westboro
♦ Current Proportionate Share				6.839560%
♦ Prior Proportionate Share				6.689655%
Beginning Net Pension Liability	\$	888,400,147	\$	59,430,911
Ending Net Pension Liability	\$	842,013,303	\$	57,590,002
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 4,952,034 1,385,685
Total Deferred Outflows of Resources	\$	96,619,703	\$	6,337,719
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	1,204,488 8,125,004
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 332,287
Total Deferred Inflows of Resources	\$	160,621,785	\$	9,661,779
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	5,390,299 231,875
Total Employer Pension Expense	\$	78,810,662	\$	5,622,174
Covered Payroll:	\$	316,455,433	\$	21,400,789
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	e: 842,013,303 1,062,136,523 656,014,261	\$ \$ \$	57,590,002 72,645,462 44,868,487
Deferred Outflows of Resources and Deferred Inflows of Resources	roop Dr	oognized in Euture	Donoia	n Expense:
◆ 2022	s	(13,963,988)	\$	(745,855)
◆ 2022 ◆ 2023	ֆ \$	(28,185,245)	ծ \$	(1,721,166)
◆ 2024	↓ \$	(16,012,907)	↓ \$	(901,116)
◆ 2025	\$	(11,950,224)	\$	(541,828)
♦ 2026	\$	6,110,282	\$	585,905
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Wes	Westboro Housing Authority		
♦ Current Proportionate Share				0.076319%		
<ul> <li>Prior Proportionate Share</li> </ul>				0.076261%		
Beginning Net Pension Liability	\$	888,400,147	\$	677,502		
Ending Net Pension Liability	\$	842,013,303	\$	642,613		
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 55,257 47,264		
Total Deferred Outflows of Resources	\$	96,619,703	\$	102,521		
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> <li>Changes of Assumptions</li> </ul>	\$	17,610,586 118,794,275 -	\$	13,440 90,662 -		
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		3,532		
Total Deferred Inflows of Resources	\$	160,621,785	\$	107,634		
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	60,147 19,669		
Total Employer Pension Expense	\$	78,810,662	\$	79,816		
Covered Payroll:	\$	316,455,433	\$	197,790		
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	<b>-</b> .				
<ul> <li>♦ Current discount rate: 7.25%</li> </ul>	\$	842,013,303	\$	642,613		
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	↓ \$	810,607		
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	500,661		
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	accornized in Future I	Pansia	n Evnense:		
		-		-		
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	8,113 (7,976)		
<ul> <li>2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	ъ \$	(494)		
◆ 2024 ◆ 2025	↓ \$	(11,950,224)	↓ \$	(9,483)		
◆ 2026	\$	6,110,282	\$	4,727		
♦ Thereafter	\$	-	\$	-		

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	W	/est Boylston
♦ Current Proportionate Share				2.048022%
♦ Prior Proportionate Share				2.129289%
Beginning Net Pension Liability	\$	888,400,147	\$	18,916,606
Ending Net Pension Liability	\$	842,013,303	\$	17,244,618
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 1,482,825 287,189
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,770,014
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>	\$	17,610,586 118,794,275	\$	360,669 2,432,933
<ul> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		- 24,216,924		- 711,274
Total Deferred Inflows of Resources	\$	160,621,785	\$	3,504,876
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662 -	\$	1,614,060 (40,597)
Total Employer Pension Expense	\$	78,810,662	\$	1,573,463
Covered Payroll:	\$	316,455,433	\$	5,581,099
<ul> <li>Sensitivity of the Net Pension Liability to Changes in the Discout</li> <li>Current discount rate: 7.25%</li> <li>1% decrease in the discount rate: 6.25%</li> <li>1% increase in the discount rate: 8.25%</li> </ul>	unt Rate \$ \$ \$	842,013,303 1,062,136,523 656,014,261	\$ \$ \$	17,244,618 21,752,790 13,435,317
Deferred Outflows of Resources and Deferred Inflows of Resources	roop De	oognized in Euture I	Donolo	n Expanse:
<ul><li>◆ 2022</li><li>◆ 2023</li></ul>	\$ \$	(13,963,988) (28,185,245)	\$ \$	(326,801) (650,118)
<ul> <li>◆ 2023</li> <li>◆ 2024</li> </ul>	ъ \$	(16,012,907)	ъ \$	(403,403)
◆ 2024 ◆ 2025	Գ \$	(11,950,224)	⊅ \$	(388,619)
◆ 2026	\$	6,110,282	\$	34,079
◆ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System		est Boylston Ising Authority
<ul> <li>♦ Current Proportionate Share</li> </ul>				0.024913%
<ul> <li>Prior Proportionate Share</li> </ul>				0.009282%
Beginning Net Pension Liability	\$	888,400,147	\$	82,462
Ending Net Pension Liability	\$	842,013,303	\$	209,767
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 18,037 119,186
Total Deferred Outflows of Resources	\$	96,619,703	\$	137,223
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> <li>Changes of Assumptions</li> </ul>	\$	17,610,586 118,794,275 -	\$	4,387 29,595 -
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		41,813
Total Deferred Inflows of Resources	\$	160,621,785	\$	75,795
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	19,634 8,833
Total Employer Pension Expense	\$	78,810,662	\$	28,467
Covered Payroll:	\$	316,455,433	\$	60,098
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:		
♦ Current discount rate: 7.25%	\$	842,013,303	\$	209,767
<ul> <li>◆ 1% decrease in the discount rate: 6.25%</li> </ul>	\$	1,062,136,523	\$	264,605
<ul> <li>♦ 1% accrease in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	163,430
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Exnense:
♦ 2022	\$	(13,963,988)	\$	5,540
◆ 2022 ◆ 2023	э \$	(28,185,245)	э \$	5,040
◆ 2023 ◆ 2024	↓ \$	(16,012,907)	φ \$	9,756
◆ 2025	Ψ \$	(11,950,224)	↓ \$	22,057
◆ 2026	\$	6,110,282	\$	19,035
♦ Thereafter	\$	-	\$	-

Pension Amounts as of December 31, 2021	Wa	rcester Regional Retirement System	West Boylston Water District		
♦ Current Proportionate Share				0.103468%	
♦ Prior Proportionate Share				0.109248%	
Beginning Net Pension Liability	\$	888,400,147	\$	970,558	
Ending Net Pension Liability	\$	842,013,303	\$	871,213	
Total Deferred Outflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-	
<ul> <li>♦ Changes of Assumptions</li> </ul>	·	72,402,779		74,914	
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		76,859	
Contributions and Proportionate Share of Contributions		24,210,324		10,000	
Total Deferred Outflows of Resources	\$	96,619,703	\$	151,773	
Total Deferred Inflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	18,221	
Net Difference Between Projected and Actual Investment	Ψ	118,794,275	Ŷ	122,914	
Earnings on Pension Plan Investments		110,704,270		122,314	
<ul> <li>Changes of Assumptions</li> </ul>		-		-	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		44,082	
Total Deferred Inflows of Resources	\$	160,621,785	\$	185,217	
Employer Pension Expense:					
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	81,544	
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ψ		Ŷ	17,237	
Proportion and Differences Between Employer Contributions		_		11,201	
and Proportionate Share of Contributions					
Total Employer Pension Expense	\$	78,810,662	\$	98,781	
Covered Payroll:	\$	316,455,433	\$	410,802	
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	e:			
♦ Current discount rate: 7.25%	\$	842,013,303	\$	871,213	
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	1,098,970	
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	678,764	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:	
♦ 2022	\$	(13,963,988)	\$	2,096	
◆ 2023	\$	(28,185,245)	\$	(11,754)	
♦ 2024	\$	(16,012,907)	\$	(4,081)	
♦ 2025	\$	(11,950,224)	\$	(19,551)	
♦ 2026	\$	6,110,282	\$	(154)	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Worcester Regional Retirement System			West Brookfield	
♦ Current Proportionate Share				0.454828%	
♦ Prior Proportionate Share				0.479179%	
Beginning Net Pension Liability	\$	888,400,147	\$	4,257,026	
Ending Net Pension Liability	\$	842,013,303	\$	3,829,713	
Total Deferred Outflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-	
<ul> <li>Changes of Assumptions</li> </ul>		72,402,779		329,308	
<ul> <li>Changes in Proportion and Differences Between Employer</li> <li>Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		78,125	
Total Deferred Outflows of Resources	\$	96,619,703	\$	407,433	
Total Deferred Inflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	80,098	
Net Difference Between Projected and Actual Investment	Ψ	118,794,275	Ψ	540,310	
Earnings on Pension Plan Investments		110,794,275		540,510	
<ul> <li>Changes of Assumptions</li> </ul>		-		-	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		184,934	
Total Deferred Inflows of Resources	\$	160,621,785	\$	805,342	
Employer Pension Expense:					
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	358,453	
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>		-		(28,892)	
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				(,)	
Total Employer Pension Expense	\$	78,810,662	\$	329,561	
Covered Payroll:	\$	316,455,433	\$	1,374,627	
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	e:			
♦ Current discount rate: 7.25%	\$	842,013,303	\$	3,829,713	
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	4,830,896	
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	2,983,737	
Deferred Outflows of Resources and Deferred Inflows of Resou	rces Re	ecognized in Future I	Pensio	n Expense:	
♦ 2022	\$	(13,963,988)	\$	(79,536)	
◆ 2023	\$	(28,185,245)	\$	(141,163)	
♦ 2024	\$	(16,012,907)	\$	(92,104)	
♦ 2025	\$	(11,950,224)	\$	(85,607)	
♦ 2026	\$	6,110,282	\$	501	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Worcester Regional Retirement System			Westminster	
<ul> <li>Current Proportionate Share</li> </ul>				1.405503%	
Prior Proportionate Share				1.432805%	
Beginning Net Pension Liability	\$	888,400,147	\$	12,729,042	
Ending Net Pension Liability	\$	842,013,303	\$	11,834,523	
Total Deferred Outflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-	
<ul> <li>Changes of Assumptions</li> </ul>		72,402,779		1,017,623	
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		64,036	
Contributions and Proportionate Share of Contributions		24,210,924		04,030	
Total Deferred Outflows of Resources	\$	96,619,703	\$	1,081,659	
Total Deferred Inflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	247,517	
Net Difference Between Projected and Actual Investment	Ŧ	118,794,275	Ŧ	1,669,657	
Earnings on Pension Plan Investments		110,794,275		1,009,007	
<ul> <li>Changes of Assumptions</li> </ul>		-		-	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		343,238	
Total Deferred Inflows of Resources	\$	160,621,785	\$	2,260,412	
Employer Pension Expense:					
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	1,107,686	
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>	Ŧ	10,010,002	Ŧ	(68,107)	
<ul> <li>Net Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		-		(08,107)	
Total Employer Pension Expense	\$	78,810,662	\$	1,039,579	
Covered Payroll:	\$	316,455,433	\$	4,105,057	
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	9:			
◆ Current discount rate: 7.25%	\$	842,013,303	\$	11,834,523	
◆ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	14,928,362	
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	9,220,301	
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:	
♦ 2022	\$	(13,963,988)	\$	(269,177)	
<ul><li>◆ 2023</li></ul>	\$	(28,185,245)	\$	(468,132)	
♦ 2024	\$	(16,012,907)	\$	(295,376)	
♦ 2025	\$	(11,950,224)	\$	(201,356)	
♦ 2026	\$	6,110,282	\$	55,288	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Worcester Regional Retirement System			Winchendon	
<ul> <li>Current Proportionate Share</li> </ul>				2.522865%	
Prior Proportionate Share				2.537101%	
Beginning Net Pension Liability	\$	888,400,147	\$	22,539,606	
Ending Net Pension Liability	\$	842,013,303	\$	21,242,856	
Total Deferred Outflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	-	\$	-	
Changes of Assumptions	·	72,402,779	•	1,826,624	
<ul> <li>Changes in Proportion and Differences Between Employer</li> </ul>		24,216,924		219,652	
Contributions and Proportionate Share of Contributions		24,210,924		219,002	
Total Deferred Outflows of Resources	\$	96,619,703	\$	2,046,276	
Total Deferred Inflows of Resources:					
<ul> <li>Differences Between Expected and Actual Experience</li> </ul>	\$	17,610,586	\$	444,291	
	Ŷ	118,794,275	Ŷ	2,997,019	
<ul> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> </ul>		110,794,275		2,997,019	
<ul> <li>Changes of Assumptions</li> </ul>		-		-	
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		542,038	
Total Deferred Inflows of Resources	\$	160,621,785	\$	3,983,348	
Employer Pension Expense:					
<ul> <li>Proportionate Share of Plan Pension Expense</li> </ul>	\$	78,810,662	\$	1,988,286	
<ul> <li>Net Amortization of Deferred Amounts from Changes in</li> </ul>		-		(238,280)	
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				(200,200)	
Total Employer Pension Expense	\$	78,810,662	\$	1,750,006	
Covered Payroll:	\$	316,455,433	\$	6,075,619	
Sensitivity of the Net Pension Liability to Changes in the Discou	unt Rate	<b>e:</b>			
◆ Current discount rate: 7.25%	\$	842,013,303	\$	21,242,856	
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	26,796,266	
<ul> <li>♦ 1% increase in the discount rate: 8.25%</li> </ul>	\$	656,014,261	\$	16,550,352	
Deferred Outflows of Resources and Deferred Inflows of Resources	rces Re	ecognized in Future I	Pensio	n Expense:	
♦ 2022	\$	(13,963,988)	\$	(563,257)	
♦ 2023	\$	(28,185,245)	\$	(714,807)	
♦ 2024	\$	(16,012,907)	\$	(429,839)	
♦ 2025	\$	(11,950,224)	\$	(367,371)	
♦ 2026	\$	6,110,282	\$	138,202	
♦ Thereafter	\$	-	\$	-	

Pension Amounts as of December 31, 2021	Wo	rcester Regional Retirement System	Winchendon Housing Authority	
♦ Current Proportionate Share				0.193325%
♦ Prior Proportionate Share				0.190893%
Beginning Net Pension Liability	\$	888,400,147	\$	1,695,895
Ending Net Pension Liability	\$	842,013,303	\$	1,627,819
<ul> <li>Total Deferred Outflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Changes of Assumptions</li> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	- 72,402,779 24,216,924	\$	- 139,972 128,957
Total Deferred Outflows of Resources	\$	96,619,703	\$	268,929
<ul> <li>Total Deferred Inflows of Resources:</li> <li>Differences Between Expected and Actual Experience</li> <li>Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments</li> <li>Changes of Assumptions</li> </ul>	\$	17,610,586 118,794,275 -	\$	34,046 229,659 -
<ul> <li>Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>		24,216,924		-
Total Deferred Inflows of Resources	\$	160,621,785	\$	263,705
<ul> <li>Employer Pension Expense:</li> <li>Proportionate Share of Plan Pension Expense</li> <li>Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions</li> </ul>	\$	78,810,662	\$	152,360 53,372
Total Employer Pension Expense	\$	78,810,662	\$	205,732
Covered Payroll:	\$	316,455,433	\$	581,600
Sensitivity of the Net Pension Liability to Changes in the Discou	int Rate	9:		
◆ Current discount rate: 7.25%	\$	842,013,303	\$	1,627,819
♦ 1% decrease in the discount rate: 6.25%	\$	1,062,136,523	\$	2,053,371
♦ 1% increase in the discount rate: 8.25%	\$	656,014,261	\$	1,268,237
Deferred Outflows of Resources and Deferred Inflows of Resou	roos Da	cognized in Future I	Doneio	Expense:
◆ 2022	\$	(13,963,988)	\$	24,303
◆ 2022 ◆ 2023	ъ \$	(13,963,988) (28,185,245)	ъ \$	(16,019)
◆ 2023 ◆ 2024	ъ \$	(16,012,907)	э \$	1,629
◆ 2024 ◆ 2025	↓ \$	(11,950,224)	₽	(19,225)
◆ 2026	\$	6,110,282	\$	14,536
◆ Thereafter	\$	-	\$	-

Under GASB 67, a series of projections and calculations are used to determine the discount rate for the purpose of the measurement of the Total Pension Liability. The discount rate is the single rate that reflects (1) the long-term expected rate of return on pension plan investments that are expected to be used to finance the payment of benefits, to the extent that the pension plan's Fiduciary Net Position is projected to be sufficient to make projected benefit payments and pension plan assets are expected to be invested using a strategy to achieve that return, and (2) a yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher, to the extent that the conditions for use of the long-term expected rate of return are not met.

Projected cash flows into and out of the pension plan are assumed to be contributions to the pension plan, benefit payments, pension plan administrative expenses and pension plan investment earnings. These projected cash flows are used to project the pension plan's Fiduciary Net Position at the beginning of each period. The pension plan's projected to occur in that period.

It is assumed that the pension plan's Fiduciary Net Position is expected to always be invested using a strategy to achieve the long-term expected rate of return on pension plan investments.

The benefit payments that are projected to occur in a period are discounted using the long-term expected rate of return on pension plan investments if the amount of the pension plan's beginning Fiduciary Net Position is projected to be sufficient to make the benefit payments in that period. In periods in which benefit payments are projected to be greater than the amount of the pension plan's Fiduciary Net Position, they are discounted using a municipal bond rate as required by GASB 67.

For purposes of this valuation, the long-term expected rate of return on pension plan investments is 7.25%; the municipal bond rate is 2.06%, based on the December 2021 Bond Buyer Index as published by the Federal Reserve. For each period, the pension plan's Fiduciary Net Position is projected to be sufficient to make the benefit payments in that period, therefore, the resulting single discount rate is based solely on the long-term expected rate of return of 7.25%.