

HAMPSHIRE COUNTY RETIREMENT SYSTEM

FINANCIAL REPORTING AND DISCLOSURES Governmental Accounting Standards Board

Governmental Accounting Standards Board Statements 67 and 68

> Disclosures as of December 31, 2021

> > KMS Actuaries, LLC 52 Hunt Road Kingston, NH 03848

> > > October, 2022



October 24, 2022

Mr. Patrick E. Brock Chairman Hampshire County Retirement System 99 Industrial Drive, Suite 2 Northampton, MA 01060-2326

Dear Patrick:

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 Hampshire County 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, 2022.

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 Hampshire County 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 6.9%, 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. Patrick E. Brock October 24, 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 Hampshire County 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,

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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 Hampshire County 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 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.

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 Hampshire County 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 Hampshire County 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:

- (1) 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.

	Disclosure Date	December 31, 2021	December 31, 2020	% Change
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Valuation Date	January 1, 2022	January 1, 2020	
Membership Data			
Active Plan Members	1,981	1,976	0.3%
Inactive Members Currently in Receipt	1,392	1,406	(1.0%)
Inactive Members Deferred	851	774	9.9%
Total Plan Members	4,224	4,156	1.6%
Covered Payroll	\$90,501,248	\$87,719,692	3.2%
Net Pension Liability			
Discount Rate	6.90%	7.15%	
Total Pension Liability (TPL)	\$606,316,440	\$580,562,055	4.4%
Fiduciary Net Position (FNP)	476,562,413	401,980,115	18.6%
Net Pension Liability (NPL)	\$129,754,027	\$178,581,940	(27.3%)
FNP as % of TPL	78.6%	69.2%	13.6%
Pension Expense			
Pension Expense (Income)	(\$5,112,488)	\$17,386,583	(129.4%)
Deferred Outflows	\$26,364,845	\$15,059,246	
Deferred Inflows	\$56,211,713	\$29,280,485	
Recognition Period	7.08	7.12	

EXECUTIVE SUMMARY

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, 2022 and is shown in Section 1, Total Pension Liability.

Benefit Changes

This report reflects the elimination of the Hampshire Council of Governments (HCOG) unit and the associated reduction in liability due to the transfer of all inactive members and 65 retirees to the State Retirement System (SRS). The liability reduction is offset by approximately \$1.162 million in liability that is still due to be transferred to the SRS. The \$1.162 million liability value was provided by the Hampshire County Retirement System via email on June 9, 2022 and consists of trust earnings of \$576,900 and \$296,084 on the annuity savings and annuity reserve funds for inactive and retired members, respectively and \$289,617 of retired members annuity reserve fund balances. All other benefit provisions remained the same from the prior measurement date.

All other 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

Some Actuarial Assumptions and Methods used in this valuation have changed since the last valuation, including decreasing the investment return rate from 7.15% to 6.9% and updating the mortality and mortality improvement rates. 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 (Income)

The Pension Income for the fiscal year ending December 31, 2021 is \$5,112,488 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.

SECTION 1 - PRINCIPAL VALUATION RESULTS

Fiduciary Net Position

Asset information was provided by the Hampshire County 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 at Fiscal Year-End				
Cash	\$ 4,67	2,747	\$	13,151,977
Individually Owned Short Term Investments		0		0
Fixed Income Securities		0		0
Equities (at market value)		0		0
Pooled Short Term Funds		0		0
Pooled Domestic Equity Funds	113,55	6,554		81,248,848
Pooled International Equity Funds	85,29	3,033	-	101,449,192
Pooled Global Equity Funds		0		0
Pooled Domestic Fixed Income Funds	122,08	32,112	-	102,484,590
Pooled International Fixed Income Funds		0		0
Pooled Global Fixed Income Funds		0		22,518,406
Pooled Alternative/Private Equity	72,37	5,837		44,288,224
Pooled Real Estate Funds	77,56	2,890		35,729,405
Pooled Domestic Balanced Funds		0		0
Pooled International Balanced Funds		0		0
Hedge Funds		0		0
PRIT Cash		0		0
PRIT Fund		0		0
Interest Due and Accrued		0		0
Prepaid Expenses		0		0
Accounts Receivable (A)	1,07	5,053		1,116,318
Land		0		0
Buildings		0		0
Accumulated Depreciation - Buildings		0		0
Accounts Payable (A)	(5	5,813)		(6,845)
Auditor or Other Adjustments		0		0
Total Market Value of Assets	\$ 476,56	2,413	\$ 4	01,980,115

SECTION 1 - PRINCIPAL VALUATION RESULTS

Fiduciary Net Position

2020

Asset Activity					
Market value as of beginning of year	\$	401,980,115	\$	359,018,033	
Contributions - employer		28,089,796		26,114,304	
Contributions - member		8,579,543		8,376,499	
Net investment income		73,547,508		41,619,584	
Benefit payments, including refunds of member					
contributions		(34,822,644)		(32,280,113)	
Administrative expenses		(811,905)		(868,192)	
Other		0		0	
Market Value as of end of year	\$	476,562,413	\$	401,980,115	
Money-Weighted Rate of Return		18.36%		11.64%	

(Gain) / Loss on Pension Plan Investments					
Projected earnings	\$	28,654,229	\$	25,614,181	
Actual earnings		73,547,508		41,619,584	
(Gain) / Loss on pension plan investments	\$	(44,893,279)	\$	(16,005,403)	

SECTION 1 - PRINCIPAL VALUATION RESULTS

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, 2022.

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:

Measurement Date December 31, 2021

1. To	tal Pension Liability, beginning of year:				
a.	Actives	\$	267,733,185		
b.	Retired and Disabled Members and Beneficiaries		305,454,222		
C.	Inactive Members		7,374,648		
d.	Total Pension Liability at 7.15% (a. + b. + c.)			\$	580,562,055
0.0-	0			Α	4.4.700.000
2. Se	rvice Cost			\$	14,760,890
3. Be	nefit Payments				(34,822,644)
					(= , = , = ,
4. Int	erest [7.15% x (1.d. + 2. + .5 x 3)]			\$	41,320,681
5 Ch	anges of benefit terms				(12,399,813)
J. 011	anges of benefit terms				(12,399,613)
6. Dif	ferences between expected and actual experience				5,606,152
7. Ch	anges of assumptions or other inputs				11,289,119
8 Tot	tal Pension Liability, end of year (1.d. + 2. + 3. + 4. + 5	+6+	+ 7.)		
a.	Actives	\$	247,206,617		
b.	Retired and Disabled Members and Beneficiaries	Ψ	351,701,341		
C.	Inactive Members		7,408,482		
d.	Total Pension Liability at 6.9% (a. + b. + c.)		.,,	\$	606,316,440
a.	rotar ronordir Liability at 01070 (at . bi . 01)			Ψ	555,515, 446

Plan Description

Plan administration

The Hampshire County Retirement System (the "System") is a cost-sharing, multiple-employer defined benefit pension plan that provides pensions for eligible employees of 37 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	1,392
Inactive plan members entitled to but not yet receiving benefits	851
Active plan members	1,981
	4,224

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 \$13,000 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, 2022 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	6% of Salary with 30 or more years of creditable service.
or after April 2, 2012	

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	\$ 606,316,440
Fiduciary Net Position	 (476,562,413)
Net Pension Liability	\$ 129,754,027

Fiduciary Net Position as a percentage of the Total Pension Liability

78.6%

Actuarial assumptions

The Total Pension Liability was determined by an actuarial valuation as of January 1, 2022, 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 6.9%, 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 geometric 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 ¹
Cash	2.0%	0.00%
Domestic Equity	22.0%	3.90%
Non-US Developed Equity	11.0%	4.00%
Emerging Equity	6.0%	6.30%
Private Equity	18.0%	7.70%
Core Bonds	11.0%	0.70%
Value Add Fixed Income - Public	12.0%	4.00%
Real Estate	18.0%	3.60%
Total	100%	

¹ Provided by NEPC (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 6.9%. 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 6.9%, as well as what the Net Pension Liability would be if it were calculated using a discount rate 1-percentage point lower (5.9%) or 1-percentage point higher (7.9%) than the current rate:

	Current				
	 1% Decrease (5.9%)		Discount Rate (6.9%)		1% Increase (7.9%)
Total Pension Liability	\$ 676,267,777	\$	606,316,440	\$	547,210,880
Fiduciary Net Position	476,562,413		476,562,413		476,562,413
Net Pension Liability	\$ 199,705,364	\$	129,754,027	\$	70,648,467

Exhibit 3.1 - Changes in Net Pension Liability and Related Ratios

Fiscal Year Ended December 31	2021	2020	2019	2018	2017		
	Т	otal Pension Liabili	ty				
Service cost	\$ 14,760,890	\$ 14,261,729	\$ 13,282,271	\$ 12,771,414	\$ 11,029,438		
Interest	41,320,681	39,817,266	38,884,736	37,396,643	36,888,260		
Changes of benefit terms	(12,399,813)	-	-	-	-		
Differences between expected and							
actual experience	5,606,152	-	(6,620,290)	-	(434,874)		
Changes of assumptions Benefit payments, including refunds of	11,289,119	-	20,488,858	-	(9,996,849)		
member contributions	(34,822,644)	(32,280,113)	(31,865,798)	(29,543,223)	(28,662,890)		
Net change in Total Pension Liability	\$ 25,754,385	\$ 21,798,882	\$ 34,169,777	\$ 20,624,834	\$ 8,823,085		
Total Pension Liability-beginning	\$ 580,562,055	\$ 558,763,173	\$ 524,593,396	\$ 503,968,562	\$ 495,145,477		
Total Pension Liability-ending (a)	\$ 606,316,440	\$ 580,562,055	\$ 558,763,173	\$ 524,593,396	\$ 503,968,562		
Fiduciary Net Position							
Contributionsemployer	\$ 28,089,796	\$ 26,114,304	\$ 24,294,506	\$ 22,597,993	\$ 21,331,218		
Contributionsmember	8,579,543	8,376,499	8,334,804	8,378,578	7,689,443		
Net investment income	73,547,508	41,619,584	50,071,334	(9,664,404)	43,201,653		
Benefit payments, including refunds of							
member contributions	(34,822,644)	(32,280,113)	(31,865,798)	(29,543,223)	(28,662,890)		
Administrative expenses	(811,905)	(868,192)	(842,974)	(870,363)	(817,067)		
Other							
Net change in Fiduciary Net Position	\$ 74,582,298	\$ 42,962,082	\$ 49,991,872	\$ (9,101,419)	\$ 42,742,357		
Fiduciary Net Position-beginning	\$ 401,980,115	\$ 359,018,033	\$ 309,026,161	\$ 318,127,580	\$ 275,385,223		
Fiduciary Net Position-ending (b)	\$ 476,562,413	\$ 401,980,115	\$ 359,018,033	\$ 309,026,161	\$ 318,127,580		
	Net Pens	ion Liability and Rela	ted Ratios				
Net Pension Liabilityending (a) (b)	\$ 129,754,027	\$ 178,581,940	\$ 199,745,140	\$ 215,567,235	\$ 185,840,982		
Fiduciary Net Position as a percentage							
of the Total Pension Liability	78.60%	69.24%	64.25%	58.91%	63.12%		
, and the second							
Covered Payroll	\$ 90,501,248	\$ 87,719,692	\$ 85,426,619	\$ 84,192,999	\$ 76,767,518		
Net Pension Liability as a percentage of							
Covered Payroll	143.37%	203.58%	233.82%	256.04%	242.08%		

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

Fiscal Year Ended December 31	2016	2015	2014	2013	2012			
Total Pension Liability								
Comiton cont	ф. 40.00F.000	ф. 40.000.0 7 0	ф 0.0F0.407					
Service cost	\$ 10,605,229	\$ 10,269,070	\$ 9,850,427					
Interest	34,627,268	34,842,587	33,371,689					
Changes of benefit terms Differences between expected and	-	\$ -	\$ -					
actual experience	(4,348,735)							
Changes of assumptions	16,610,091	\$ -	\$ -					
Benefit payments, including refunds of	10,010,091	Ψ -	Ψ -					
member contributions	(26,880,118)	(25,512,793)	(24,412,587)					
Net change in Total Pension Liability	\$ 30,613,735	\$ 19,598,864	\$ 18,809,529					
net onlings in rotal renoish Elasinty	Ψ 00,020,100	¥ 10,000,001	4 10,000,020					
Total Pension Liability-beginning	\$ 464,531,742	\$ 444,932,878	\$ 426,123,349					
Total Pension Liability-ending (a)	\$ 495,145,477	\$ 464,531,742	\$ 444,932,878					
3 (2)	,	, ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Fiduciary Net Position								
Contributionsemployer	\$ 19.693.436	\$ 18.620.753	¢ 17.440.170					
Contributionsemployer Contributionsmember	\$ 19,693,436 7,446,905	\$ 18,620,753 7,322,347	\$ 17,442,179 7,559,814					
Net investment income								
	19,015,995	\$ (1,011,242)	\$ 12,015,152					
Benefit payments, including refunds of								
member contributions	(26,880,118)	(25,512,793)	(24,412,587)					
Administrative expenses	(796,827)	\$ (929,899)	\$ (841,318)					
Other								
Net change in Fiduciary Net Position	\$ 18,479,391	\$ (1,510,834)	\$ 11,763,240					
Fiducian Nat Position Incomes	¢ 050 005 000	\$ 050 446 666	4.040.053.400					
Fiduciary Net Position—beginning	\$ 256,905,832	\$ 258,416,666	\$ 246,653,426					
Fiduciary Net Positionending (b)	\$ 275,385,223	\$ 256,905,832	\$ 258,416,666					
	Net Pens	ion Liability and Relat	ed Ratios					
		-						
Net Pension Liability-ending (a) – (b)	\$ 219,760,254	\$ 207,625,910	\$ 186,516,212					
Fiduciary Net Position as a percentage								
of the Total Pension Liability	55.62%	55.30%	58.08%					
Covered Povrell	¢ 70.044.005	¢ 00.044.045	¢ 77.120.024					
Covered Payroll	\$ 78,914,925	\$ 80,914,245	\$ 77,139,934					
Net Pension Liability as a percentage of								
Covered Payroll	278.48%	256.60%	241.79%					
Jordina Fajron	210.40/0	230.00%	Z41.1370					

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	\$ 28,089,796	\$ 26,114,304	\$ 24,294,506	\$ 22,597,993	\$ 21,331,218
Contributions in relation to the					
Actuarially Determined Contribution	 28,089,796	26,114,304	24,294,506	22,597,993	21,331,218
Contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -	\$ -
Contribution deficiency (excess)	\$ -	\$ -	\$ -	\$ -	\$ -
Contribution deficiency (excess) Covered Payroll	\$ 90,501,248	\$ 87,719,692	\$ 85,426,619	\$ 84,192,999	\$ 76,767,518
• • • •					76,767,518

The contribution shown above, \$28,089,796, represents the actual contributions made by member units of the Hampshire County 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	\$ 19,693,436	\$ 18,620,753	\$ 17,349,877		
Contributions in relation to the					
Actuarially Determined Contribution	19,693,436	\$ 18,620,753	\$ 17,349,877		
Contribution deficiency (excess)	\$ <u> </u>	\$ -	\$ -		
Covered Payroll	\$ 78,914,925	\$ 80,914,245	\$ 77,139,934		
Contributions as a percentage of Covered Payroll	24.96%	23.01%	22.49%		

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 - Investment 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	18.36%	11.64%	16.30%	-3.02%	15.77%	7.43%	-0.68%	4.84%		

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

This report reflects the elimination of the Hampshire Council of Governments (HCOG) unit and the associated reduction in liability due to the transfer of all inactive members and 65 retirees to the State Retirement System (SRS). The liability reduction is offset by approximately \$1.162 million in liability that is still due to be transferred to the SRS. The \$1.162 million liability value was provided by the Hampshire County Retirement System via email on June 9, 2022 and consists of trust earnings of \$576,900 and \$296,084 on the annuity savings and annuity reserve funds for inactive and retired members, respectively and \$289,617 of retired members annuity reserve fund balances. All other benefit provisions remained the same from the prior measurement date.

Changes of assumptions

Some Actuarial Assumptions and Methods used in this valuation have changed since the last valuation, including decreasing the investment return rate from 7.15% to 6.9% and updating the mortality and mortality improvement rates. 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 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:

Actuarial cost method	Entry Age No	Entry Age Normal				
Amortization method	UAAL	Increasing dollar amount at 4% to reduce the Unfunded Actuarial Accrued Liability to zero on or before June 30, 2032.				
	2002 & 2003 ERI	Level dollar amount 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)	80% of gains and losses of the prior year,				
	b)	60% of gains and losses of the second prior year,				
	c)	40% of gains and losses of the third prior year, and				
	d)	20% of gains and losses of the fourth prior year.				
	Investment	gains and losses are determined by the excess or				

deficiency of the expected return over the actual return on the market value. The actuarial valuation of assets is further constrained to be not less than 90% or more than 110% of market

value.

Notes to the Required Supplementary Information

Salary increases Group 1: 6% - 4.25%, based on service

Group 4: 7% - 4.75%, based on service

Payroll growth 3.25% per year

Investment rate of return 6.9%, 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.

					r 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 2017	\$ -	\$ 4,348,735 434,874	\$ (4,348,735) (320,230)	\$ -	\$ - 114,644
2017	-	-	(320,230)	-	-
2019	-	6,620,290	(2,789,448)	-	3,830,842
2020	-	-	-	-	-
2021	5,606,152	-	791,829	4,814,323	
Total				\$ 4,814,323	\$ 3,945,486

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	\$ 16,610,091	\$ -	\$ 16,610,091	\$ -	\$ -
2017	-	9,996,849	(7,361,450)	-	2,635,399
2018	-	-	-	-	-
2019	20,488,858	-	8,632,947	11,855,911	-
2020	-	-	-	-	-
2021	11,289,119	-	1,594,508	9,694,611	-
Total				\$ 21,550,522	\$ 2,635,399

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.

						Balances at December 31, 2021			
	E Le	vestment Earnings ess Than Projected	Investment Earnings Greater Tha Projected	i n	imounts 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 2017 2018	\$	231,820 - 33,385,880	\$ - 22,564,98	\$ 35	231,820 (22,564,985) 26,708,704	\$	- - 6,677,176	\$	- - -
2019 2020 2021		- - -	26,975,35 16,005,40 44,893,27)3	(16,185,213) (6,402,162) (8,978,656)		-		10,790,140 9,603,241 35,914,623
Subtotal Net						\$	6,677,176	\$	56,308,004 49,630,828

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	\$ 2,001,045	\$ 2,001,045	\$ 2,001,045	\$ -	\$ -
2017	2,338,865	2,338,865	1,722,286	616,579	616,579
2018	2,185,181	2,185,181	1,287,294	897,887	897,887
2019	3,112,389	3,112,389	1,311,400	1,800,989	1,800,989
2020	4,101,135	4,101,135	1,152,005	2,949,130	2,949,130
2021	2,164,088	2,164,088	305,659	1,858,429	1,858,429
Total				\$ 8,123,014	\$ 8,123,014

^{*} 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	\$ (8,099,797)
2023	\$ (14,454,343)
2024	\$ (7,845,566)
2025	\$ (4,644,485)
2026	\$ 2,620,074
Thereafter	\$ 2,577,249
Total Deferred Outflows	\$ 34,487,859
Total Deferred Inflows	\$ 64,334,727

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. 3	Service cost	\$ 14,760,890
2.	nterest on the total pension liability	
;	a. Total Pension Liability, beginning of year 580,562,055	
1	c. Service cost, beginning of year 14,760,890	
(E. Benefit payments, including refunds of employee contributions (34,822,644)	
	d. Interest on Total Pension Liability	41,320,681
3.	Differences between expected and actual experience	(287,303)
4.	Changes of benefit terms	(12,399,813)
5. (Changes of assumptions	3,325,553
6.	Employee contributions	(8,579,543)
7.	Projected earnings on pension plan investments	
;	a. Fiduciary Net Position, beginning of year 401,980,115	
1	c. Employer contributions 28,089,796	
(c. Employee contributions 8,579,543	
(d. Benefit payments, including refunds of employee contributions (34,822,644)	
	e. Administrative expenses and other (811,905)	
1	. Total projected earnings	(28,654,229)
	Differences between projected and actual earnings on	
	olan investments	(15,410,629)
9.	Pension plan administrative expenses	811,905
10.	Other changes in Fiduciary Net Position	-
11.	Total Pension Expense (Income)	\$ (5,112,488)

Exhibit 4.3 - Proportionate Share of Contributions

The basis of an employer's allocation of the collective pension amount is consistent with the manner in which contributions to the plan are made. The schedule of employer allocations for 2021 and 2020, based on employer contributions made for the 2022 fiscal year and 2021 fiscal year, respectively, shows the proportionate relationship of each employer to all employers and each employer's allocation percentage.

2021 2020

Entity	Employer Contribution	Proportionate Share of Total Employer Contribution	Employer Contribution	Proportionate Share of Total Employer Contribution
Hampshire County Group Insurance Trust	104,644	0.372534%	97,107	0.371854%
Amherst	7,423,375	26.427301%	6,934,966	26.556197%
Amherst-Pelham Regional School District	1,663,550	5.922257%	1,590,908	6.092094%
Amherst Housing Authority	242,331	0.862701%	222,325	0.851353%
Belchertown	3,843,858	13.684179%	3,511,513	13.446703%
Belchertown Housing Authority	19,276	0.068623%	20,444	0.078287%
Belchertown Water District	68,844	0.245085%	48,554	0.185929%
Chesterfield	104,644	0.372534%	99,663	0.381641%
Chesterfield-Goshen Regional School District	93,628	0.333317%	99,663	0.381641%
Cummington	71,598	0.254890%	58,776	0.225072%
Foothills Health District	16,523	0.058822%	15,333	0.058715%
Gateway Regional School District	625,104	2.225378%	595,421	2.280057%
Goshen	63,337	0.225480%	58,776	0.225072%
Granby	1,307,487	4.654669%	1,184,368	4.535323%
Granby Housing Authority	22,030	0.078427%	30,665	0.117426%
Hadley	1,604,642	5.712544%	1,421,611	5.443802%
Hadley Housing Authority	-	0.000000%	10,222	0.039143%
Hampshire County Regional Housing Authority	11,205	0.039890%	10,222	0.039143%
Hampshire Regional School District	593,145	2.111603%	537,679	2.058944%
Hatfield	680,179	2.421445%	636,308	2.436626%
Hatfield Housing Authority	8,261	0.029409%	7,666	0.029356%
Huntington	134,463	0.478690%	137,872	0.527956%
Middlefield	57,829	0.205872%	49,426	0.189268%
Pelham	253,346	0.901915%	222,325	0.851353%
Plainfield	79,858	0.284295%	68,997	0.264212%
Quabbin Health District	74,997	0.266990%	70,053	0.268255%
Southampton	961,939	3.424514%	880,868	3.373125%
South Hadley	3,774,831	13.438442%	3,480,341	13.327336%
South Hadley Housing Authority	68,844	0.245085%	65,033	0.249032%
South Hadley-Easthampton Veteran's District	16,523	0.058822%	15,333	0.058715%

Exhibit 4.3 - Proportionate Share of Contributions

The basis of an employer's allocation of the collective pension amount is consistent with the manner in which contributions to the plan are made. The schedule of employer allocations for 2021 and 2020, based on employer contributions made for the 2022 fiscal year and 2021 fiscal year, respectively, shows the proportionate relationship of each employer to all employers and each employer's allocation percentage.

		Proportionate		Proportionate
		Share of Total		Share of Total
	Employer	Employer	Employer	Employer
Entity	Contribution	Contribution	Contribution	Contribution
South Hadley Fire District No.1	680,179	2.421445%	618,420	2.368127%

2021

2020

26,114,304

100.000000%

South Hadley Fire District No.1	680,179	2.421445%	618,420	2.368127%
South Hadley Fire District No.2	278,130	0.990146%	278,545	1.066638%
Ware	2,318,539	8.254026%	2,239,747	8.576706%
Ware Housing Authority	74,984	0.266944%	69,861	0.267520%
Westhampton	225,808	0.803879%	217,213	0.831778%
Williamsburg	295,613	1.052386%	307,852	1.178864%
Worthington	226,252	0.805460%	200,228	0.766737%

28,089,796

100.000000%

Total

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 2016.
- ♦ 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 2016.

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

	an Investments/ et External Cash Flows (a)	Periods Invested (b)	Period Weight (c)=(b)÷12	(d))=(a) x (1+r _{mw}) ^(c)
Beginning value - January 1, 2021	\$ 401,980,115	12	1.00	\$	475,770,713
Monthly net external cash flows:					
January	(2,703,040)	11	0.92		(3,154,613)
February	(2,013,540)	10	0.83		(2,317,152)
March	(1,864,529)	9	0.75		(2,115,748)
April	(2,515,565)	8	0.67		(2,814,693)
May	(1,649,191)	7	0.58		(1,819,563)
June	(2,008,418)	6	0.50		(2,184,996)
July	23,588,706	5	0.42		25,304,703
August	(1,960,342)	4	0.33		(2,073,622)
September	(2,457,638)	3	0.25		(2,563,399)
October	(1,984,370)	2	0.17		(2,040,899)
November	(2,187,828)	1	0.08		(2,218,772)
December	(1,209,546)	0	0.00		(1,209,546)
Ending value - December 31, 2021				\$	476,562,413
Money-weighted rate of return					18.36%

Note: Beginning and ending values are based on amounts reported in the System's 2021 Annual Statement, 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
1001		(100.0)										
2016	(4,348,735)	5.10	(85,270)	-	-	-	-	-	-	-	-	-
2017	(434,874)	6.79	(64,046)	(64,046)	(50,598)	-	-	-	-	-	-	-
2018	-	6.79	-	-	-	-	-	-	-	-	-	-
2019	(6,620,290)	7.12	(929,816)	(929,816)	(929,816)	(929,816)	(929,816)	(111,578)	-	-	-	-
2020	-	7.12	-	-	-	=	-	-	-	-	-	-
2021	5,606,152	7.08	791,829	791,829	791,829	791,829	791,829	791,829	791,829	63,349	-	-
Net Increa	ase (Decrease) in Pension	Expense	(287,303)	(202,033)	(188,585)	(137,987)	(137,987)	680,251	791,829	63,349	-	-
		Recognition										
Year	Changes of Assumptions	Period (Years)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2016	16,610,091	5.10	325,686	-	-	-	-	-	-	-	-	-
2017	(9,996,849)	6.79	(1,472,290)	(1,472,290)	(1,163,109)	-	-	-	-	-	-	-
2018	-	6.79	-	-	-	-	-	-	-	-	-	-
2019	20,488,858	7.12	2,877,649	2,877,649	2,877,649	2,877,649	2,877,649	345,315	-	-	-	-
2020	-	7.12	-	-	-	-	-	-	-	-	-	-
2021	11,289,119	7.08	1,594,508	1,594,508	1,594,508	1,594,508	1,594,508	1,594,508	1,594,508	127,563	-	-
Net Increa	ase (Decrease) in Pension	Expense	3,325,553	2,999,867	3,309,048	4,472,157	4,472,157	1,939,823	1,594,508	127,563	_	<u>-</u>

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	231,820	5	-	-	-	-	-	-	-	-	-	-
2017	(22,564,985)	5	(4,512,997)	-	-	-	-	-	-	-	-	-
2018	33,385,880	5	6,677,176	6,677,176	-	-	-	-	-	-	-	-
2019	(26,975,353)	5	(5,395,071)	(5,395,070)	(5,395,070)	-	-	-	-	-	-	-
2020	(16,005,403)	5	(3,201,081)	(3,201,081)	(3,201,080)	(3,201,080)	-	-	-	-	-	-
2021	(44,893,279)	5	(8,978,656)	(8,978,656)	(8,978,656)	(8,978,656)	(8,978,655)	-	-	-	-	-
Net Incre	ase (Decrease) in Pension	Expense	(15.410.629)	(10.897.631)	(17.574.806)	(12.179.736)	(8.978.655)	<u>-</u>	-	_	-	_

APPENDIX C - SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System	Hampshire County Group Insurance Trust		
◆ Current Proportionate Share				0.372534%	
♦ Prior Proportionate Share				0.371854%	
Beginning Net Pension Liability	\$	178,581,940	\$	664,064	
Ending Net Pension Liability	\$	129,754,027	\$	483,378	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	17,935	
◆ Changes of Assumptions	•	21,550,522	Ψ	80,283	
		8,123,014			
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		0,123,014		115,606	
Total Deferred Outflows of Resources	\$	34,487,859	\$	213,824	
Total Deferred Inflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	3,945,486	\$	14,698	
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	*	184,892	
Earnings on Pension Plan Investments		49,030,828		104,032	
♦ Changes of Assumptions		2,635,399		9,818	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		1,339,617	
Total Deferred Inflows of Resources	\$	64,334,727	\$	1,549,025	
Employer Pension Expense:					
 ◆ Proportionate Share of Plan Pension Expense 	\$	(5,112,488)	\$	(19,046)	
♦ Net Amortization of Deferred Amounts from Changes in	Ψ	(0,112,400)	Ψ	(214,101)	
5		-		(214,101)	
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions					
Total Employer Pension Expense	\$	(5,112,488)	\$	(233,147)	
Covered Payroll:	\$	90,501,248	\$	324,000	
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:				
♦ Current discount rate: 6.9%	\$	129,754,027	\$	483,378	
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	743,970	
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	263,189	
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Pe	ension	Expense:	
♦ 2022	\$	(8,099,797)	\$	(246,207)	
♦ 2023	\$	(14,454,343)	\$	(276,023)	
♦ 2024	\$	(7,845,566)	\$	(275,228)	
◆ 2025	\$	(4,644,485)	\$	(265,982)	
◆ 2026	\$	2,620,074	\$	(271,761)	
♦ Thereafter	\$	2,577,249	\$	-	

APPENDIX C - SCHEDULE OF PENSION AMOUNTS BY EMPLOYER

	На	mpshire County		
Develop Assessment of Develop of 24, 0004		Retirement		A I I
Pension Amounts as of December 31, 2021		System	_	Amherst
◆ Current Proportionate Share				26.427301%
Prior Proportionate Share				26.556197%
Beginning Net Pension Liability	\$	178,581,940	\$	47,424,571
Ending Net Pension Liability	\$	129,754,027	\$	34,290,486
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	1,272,297
♦ Changes of Assumptions		21,550,522		5,695,224
◆ Changes in Proportion and Differences Between Employer		8,123,014		518,666
Contributions and Proportionate Share of Contributions				
Total Deferred Outflows of Resources	\$	34,487,859	\$	7,486,187
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	1,042,684
◆ Net Difference Between Projected and Actual Investment		49,630,828	•	13,116,088
Earnings on Pension Plan Investments		,,		,,
◆ Changes of Assumptions		2,635,399		696,465
◆ Changes in Proportion and Differences Between Employer		8,123,014		1,424,604
Contributions and Proportionate Share of Contributions		, ,		, ,
Total Deferred Inflows of Resources	\$	64,334,727	\$	16,279,841
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(1,351,094)
♦ Net Amortization of Deferred Amounts from Changes in		-		(96,332)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(1,447,426)
Covered Payroll:	\$	90,501,248	\$	23,140,627
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	34,290,486
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	52,776,738
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	18,670,483
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future P	ensior	n Expense:
◆ 2022	\$	(8,099,797)	\$	(2,225,117)
♦ 2023	\$	(14,454,343)	\$	(3,920,316)
◆ 2024	\$	(7,845,566)	\$	(2,262,327)
◆ 2025 ◆ 2026	\$	(4,644,485)	\$	(1,524,947)
◆ 2026 ◆ Thereafter	\$ \$	2,620,074 2,577,249	\$ \$	1,139,053
* Indicated	Ψ	2,511,249	Ψ	=

Pension Amounts as of December 31, 2021	Hampshire County Retirement System		Amherst-Pelham Regional School District		
◆ Current Proportionate Share				5.922257%	
♦ Prior Proportionate Share				6.092094%	
Beginning Net Pension Liability	\$	178,581,940	\$	10,879,380	
Ending Net Pension Liability	\$	129,754,027	\$	7,684,367	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	285,117	
◆ Changes of Assumptions	*	21,550,522	Ψ	1,276,277	
		8,123,014			
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		186,698	
Total Deferred Outflows of Resources	\$	34,487,859	\$	1,748,092	
Total Deferred Inflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	233,662	
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	2,939,265	
Earnings on Pension Plan Investments		49,030,626		2,939,203	
♦ Changes of Assumptions		2,635,399		156,075	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		282,582	
Total Deferred Inflows of Resources	\$	64,334,727	\$	3,611,584	
Employer Penaion Evnences					
Employer Pension Expense: ♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(302,775)	
♦ Net Amortization of Deferred Amounts from Changes in	Ψ	(3,112,400)	Ψ	4,749	
_		-		4,749	
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions					
Total Employer Pension Expense	\$	(5,112,488)	\$	(298,026)	
Covered Payroll:	\$	90,501,248	\$	5,350,589	
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:				
♦ Current discount rate: 6.9%	\$	129,754,027	\$	7,684,367	
◆ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	11,827,066	
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	4,183,984	
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Pe	ensior	Expense:	
♦ 2022	\$	(8,099,797)	\$	(474,322)	
◆ 2023	\$	(14,454,343)	\$	(850,492)	
♦ 2024	\$	(7,845,566)	\$	(464,687)	
◆ 2025	\$	(4,644,485)	\$	(298,408)	
◆ 2026	\$	2,620,074	\$	224,417	
♦ Thereafter	\$	2,577,249	\$	-	

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System	Am	herst Housing Authority
◆ Current Proportionate Share				0.862701%
◆ Prior Proportionate Share				0.851353%
Beginning Net Pension Liability	\$	178,581,940	\$	1,520,363
Ending Net Pension Liability	\$	129,754,027	\$	1,119,390
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	41,533
◆ Changes of Assumptions	Ψ	21,550,522	Ψ	185,917
-				
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		301,121
Total Deferred Outflows of Resources	\$	34,487,859	\$	528,571
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	34,038
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	•	428,166
Earnings on Pension Plan Investments		49,030,020		428,100
♦ Changes of Assumptions		2,635,399		22,736
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		160,129
Total Deferred Inflows of Resources	\$	64,334,727	\$	645,069
Employer Pension Expense:		_		
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(44,105)
♦ Net Amortization of Deferred Amounts from Changes in	·	-	•	24,595
Proportion and Differences Between Employer Contributions				2 1,000
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(19,510)
Covered Payroll:	\$	90,501,248	\$	829,937
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	1,119,390
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	1,722,861
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	609,485
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(44,318)
◆ 2023	\$	(14,454,343)	\$	(94,756)
♦ 2024	\$	(7,845,566)	\$	(29,559)
♦ 2025	\$	(4,644,485)	\$	(33,182)
♦ 2026	\$	2,620,074	\$	85,317
♦ Thereafter	\$	2,577,249	\$	-

	Ha	mpshire County		
Pension Amounts as of December 31, 2021		Retirement System		Belchertown
◆ Current Proportionate Share		<u> </u>		13.684179%
◆ Prior Proportionate Share				13.446703%
Beginning Net Pension Liability	\$	178,581,940	\$	24,013,384
Ending Net Pension Liability	\$	129,754,027	\$	17,755,773
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	658,801
◆ Changes of Assumptions		21,550,522		2,949,012
◆ Changes in Proportion and Differences Between Employer		8,123,014		1,199,888
Contributions and Proportionate Share of Contributions		0,220,02		_,,
Total Deferred Outflows of Resources	\$	34,487,859	\$	4,807,701
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	539,907
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	6,791,571
Earnings on Pension Plan Investments		49,030,828		0,791,371
♦ Changes of Assumptions		2,635,399		360,633
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		4,964
Total Deferred Inflows of Resources	\$	64,334,727	\$	7,697,075
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(699,602)
◆ Net Amortization of Deferred Amounts from Changes in	Ψ	(8,112,188)	*	247,359
Proportion and Differences Between Employer Contributions				241,000
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(452,243)
Covered Payroll:	\$	90,501,248	\$	12,212,383
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	17,755,773
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	27,328,040
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	9,667,663
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ensior	n Expense:
♦ 2022	\$	(8,099,797)	\$	(871,292)
◆ 2023	\$	(14,454,343)	\$	(1,740,277)
♦ 2024	\$	(7,845,566)	\$	(836,168)
♦ 2025	\$	(4,644,485)	\$	(407,303)
◆ 2026	\$	2,620,074	\$	965,666
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	Ha	mpshire County Retirement System		elchertown sing Authority
◆ Current Proportionate Share				0.068623%
◆ Prior Proportionate Share				0.078287%
Beginning Net Pension Liability	\$	178,581,940	\$	139,806
Ending Net Pension Liability	\$	129,754,027	\$	89,041
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	3,304
◆ Changes of Assumptions	Ψ	21,550,522	Ψ	14,789
·				
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		5,024
Total Deferred Outflows of Resources	\$	34,487,859	\$	23,117
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience	\$	3,945,486	\$	2,708
	Ψ	49,630,828	Ψ	
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		49,030,626		34,058
♦ Changes of Assumptions		2,635,399		1,808
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		100,746
Total Deferred Inflows of Resources	\$	64,334,727	\$	139,320
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(3,508)
◆ Net Amortization of Deferred Amounts from Changes in	Ψ	(0,112,100)	Ψ	(16,477)
5		-		(10,477)
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(19,985)
	\$	90,501,248	\$	(==,===)
Covered Payroll:		90,501,248	Ф	-
Sensitivity of the Net Pension Liability to Changes in the Discour				
♦ Current discount rate: 6.9%	\$	129,754,027	\$	89,041
◆ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	137,043
◆ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	48,481
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Rec	ognized in Future P	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(22,061)
♦ 2023	\$	(14,454,343)	\$	(26,958)
◆ 2024	\$	(7,845,566)	\$	(24,449)
♦ 2025	\$	(4,644,485)	\$	(22,299)
♦ 2026 • Thereafter	\$	2,620,074	\$	(20,436)
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	Ha 	mpshire County Retirement System	Belch	nertown Water District
◆ Current Proportionate Share				0.245085%
◆ Prior Proportionate Share				0.185929%
Beginning Net Pension Liability	\$	178,581,940	\$	332,035
Ending Net Pension Liability	\$	129,754,027	\$	318,008
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	11,799
♦ Changes of Assumptions	•	21,550,522	•	52,817
·				
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		143,868
Total Deferred Outflows of Resources	\$	34,487,859	\$	208,484
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience	\$	3,945,486	\$	9,670
Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	121,638
Earnings on Pension Plan Investments		49,030,626		121,036
♦ Changes of Assumptions		2,635,399		6,459
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		81,817
Total Deferred Inflows of Resources	\$	64,334,727	\$	219,584
Employer Pension Expense:		_		
♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(12,530)
◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		3,791
Total Employer Pension Expense	\$	(5,112,488)	\$	(8,739)
Covered Payroll:	\$	90,501,248	\$	235,756
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	318,008
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	489,449
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	173,149
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(17,871)
♦ 2023	\$	(14,454,343)	\$	(30,436)
♦ 2024	\$	(7,845,566)	\$	(2,934)
♦ 2025	\$	(4,644,485)	\$	4,848
♦ 2026	\$	2,620,074	\$	35,293
♦ Thereafter	\$	2,577,249	\$	-

	На	mpshire County		
Pension Amounts as of December 31, 2021		Retirement System	C	hesterfield
◆ Current Proportionate Share		.,		0.372534%
◆ Prior Proportionate Share				0.381641%
Beginning Net Pension Liability	\$	178,581,940	\$	681,543
Ending Net Pension Liability	\$	129,754,027	\$	483,378
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	17,935
◆ Changes of Assumptions	•	21,550,522	•	80,283
◆ Changes in Proportion and Differences Between Employer		8,123,014		43,022
Contributions and Proportionate Share of Contributions		0,120,011		10,022
Total Deferred Outflows of Resources	\$	34,487,859	\$	141,240
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	14,698
◆ Net Difference Between Projected and Actual Investment	*	49,630,828	*	184,892
Earnings on Pension Plan Investments		43,030,020		104,002
♦ Changes of Assumptions		2,635,399		9,818
◆ Changes in Proportion and Differences Between Employer		8,123,014		40,777
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	64,334,727	\$	250,185
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(19,046)
♦ Net Amortization of Deferred Amounts from Changes in		-		3,335
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(15,711)
Covered Payroll:	\$	90,501,248	\$	344,030
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	483,378
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	743,970
◆ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	263,189
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(27,244)
♦ 2023	\$	(14,454,343)	\$	(52,531)
• 2024	\$	(7,845,566)	\$	(32,841)
◆ 2025◆ 2026	\$ \$	(4,644,485) 2,620,074	\$	(16,621) 20,292
◆ 2026 ◆ Thereafter	\$	2,577,249	\$ \$	20,292
▼ Intorountor	Ψ	2,011,243	Ψ	-

Pension Amounts as of December 31, 2021	Hampshire County Retirement System		Chesterfield-Goshen Regional School District		
♦ Current Proportionate Share				0.333317%	
◆ Prior Proportionate Share				0.381641%	
Beginning Net Pension Liability	\$	178,581,940	\$	681,543	
Ending Net Pension Liability	\$	129,754,027	\$	432,492	
Total Deferred Outflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	16,047	
◆ Changes of Assumptions	Ψ	21,550,522	Ψ	71,832	
-					
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		58,560	
Total Deferred Outflows of Resources	\$	34,487,859	\$	146,439	
Total Deferred Inflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	13,151	
◆ Net Difference Between Projected and Actual Investment	*	49,630,828	*	165,428	
Earnings on Pension Plan Investments		49,030,028		105,426	
♦ Changes of Assumptions		2,635,399		8,784	
◆ Changes in Proportion and Differences Between Employer		8,123,014		108,398	
Contributions and Proportionate Share of Contributions		, ,		,	
Total Deferred Inflows of Resources	\$	64,334,727	\$	295,761	
Employer Pension Expense:					
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(17,041)	
◆ Net Amortization of Deferred Amounts from Changes in	•	-		(1,535)	
Proportion and Differences Between Employer Contributions				(2,000)	
and Proportionate Share of Contributions					
Total Employer Pension Expense	\$	(5,112,488)	\$	(18,576)	
Covered Payroll:	\$	90,501,248	\$	356,362	
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:				
♦ Current discount rate: 6.9%	\$	129,754,027	\$	432,492	
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	665,651	
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	235,483	
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future P	ension	Expense:	
♦ 2022	\$	(8,099,797)	\$	(26,442)	
♦ 2023	\$	(14,454,343)	\$	(50,416)	
♦ 2024	\$	(7,845,566)	\$	(37,754)	
♦ 2025	\$	(4,644,485)	\$	(22,786)	
◆ 2026	\$	2,620,074	\$	(11,924)	
♦ Thereafter	\$	2,577,249	\$	-	

Pension Amounts as of December 31, 2021 System					
Pension Amounts as of December 31, 2021 System Cummington ◆ Current Proportionate Share 0.254890% ↑ Prior Proportionate Share 0.225072% ▶ Prior Proportionate Share 0.225072% \$ 401,938 Ending Net Pension Liability \$ 129,754,027 \$ 330,730 Total Deferred Outflows of Resources: ▶ Differences Between Expected and Actual Experience \$ 4,814,323 \$ 12,271 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 1,250,522 54,930 Changes in Proportion and Differences Between Employer Contributions of Resources: \$ 34,487,859 \$ 179,109 Total Deferred Inflows of Resources: • Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 • Net Differences Between Projected and Actual Experience \$ 3,945,486 \$ 10,057 • Net Differences Between Projected and Actual Investment 49,630,828 126,504 Earnings on Pension Plan Investments \$ 3,945,486 \$ 10,057 • Changes in Proportion and Differences Between Employer Contributions \$ 1,23,014 70,887 Total Deferred Inflows of Resources \$ 64,334,727 \$ 214,165 Em		На	-		
• Prior Proportionate Share 0.225072% Beginning Net Pension Liability \$ 178,581,940 \$ 401,938 Ending Net Pension Liability \$ 129,754,027 \$ 330,730 Total Deferred Outflows of Resources: • Differences Between Expected and Actual Experience \$ 4,814,323 \$ 12,271 • Changes of Assumptions 21,550,522 54,930 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 34,487,859 \$ 179,109 Total Deferred Inflows of Resources: • Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 • Net Difference Between Projected and Actual Investment 49,630,828 126,504 • Changes of Assumptions 2,635,399 6,717 • Changes of Assumptions 2,635,399 6,717 • Changes in Proportion and Differences Between Employer Contributions and Proportiona of Resources \$ 13,123,014 70,887 Employer Pension Expense: • Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportion and	Pension Amounts as of December 31, 2021			С	ummington
Beginning Net Pension Liability \$ 178,581,940 \$ 401,938 Ending Net Pension Liability \$ 129,754,027 \$ 330,730 Total Deferred Outflows of Resources: ▶ Differences Between Expected and Actual Experience \$ 4.814,323 \$ 12,271 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 34,487,859 \$ 179,109 Total Deferred Outflows of Resources: \$ 34,487,859 \$ 179,109 Total Deferred Inflows of Resources: \$ 3,945,486 \$ 10,057 • Net Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 • Net Differences Between Projected and Actual Investment 49,630,828 126,504 Earnings on Pension Plan Investments 49,630,828 126,504 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 2,635,339 6,717 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) • Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ 762 • Proportionate Share of Contributions and Proportionate Share of Contributions \$ 90,501,24	◆ Current Proportionate Share				0.254890%
Ending Net Pension Liability \$ 129,754,027 \$ 330,730 Total Deferred Outflows of Resources:	◆ Prior Proportionate Share				0.225072%
Total Deferred Outflows of Resources:	Beginning Net Pension Liability	\$	178,581,940	\$	401,938
◆ Differences Between Expected and Actual Experience \$ 4,814,323 \$ 12,271 ◆ Changes of Assumptions 21,550,522 54,930 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 111,908 Total Deferred Outflows of Resources ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 ◆ Net Difference Between Expected and Actual Investment Earnings on Pension Plan Investments 49,630,828 126,504 ◆ Changes of Assumptions 2,635,399 6,717 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 4,334,727 \$ 214,165 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) ◆ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions \$ 90,501,248 261,062 Total Employer Pension Expense \$ (5,112,488) \$ 762 Covered Payroll: \$ 90,501,248 261,062 Covered Payroll: \$ 90,501,248 261,062 Covered Payroll: \$ 90,501,248 5 509,028	Ending Net Pension Liability	\$	129,754,027	\$	330,730
◆ Changes of Assumptions 21,550,522 54,930 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 111,908 Total Deferred Outflows of Resources \$ 34,487,859 \$ 179,109 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 ◆ Net Difference Between Projected and Actual Investment 49,630,828 126,504 Earnings on Pension Plan Investments 2,635,399 6,717 ◆ Changes of Assumptions 2,635,399 6,717 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 123,014 70,887 Total Deferred Inflows of Resources \$ 64,334,727 \$ 214,165 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 90,501,248 261,062 Total Employer Pension Expense \$ 90,501,248 261,062 Covered Payroll:	Total Deferred Outflows of Resources:				
◆ Changes of Assumptions 21,550,522 54,930 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 111,908 Total Deferred Outflows of Resources \$ 34,487,859 \$ 179,109 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 ◆ Net Difference Between Projected and Actual Investment 49,630,828 126,504 Earnings on Pension Plan Investments 2,635,399 6,717 ◆ Changes of Assumptions 2,635,399 6,717 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 123,014 70,887 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 90,501,248 261,062 Covered Payroll: \$ 90,501,248 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • Current discount rate: 6.9% \$ 129,754,027	◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	12,271
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 111,908 Total Deferred Outflows of Resources \$ 34,487,859 \$ 179,109 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 126,504 € Changes of Assumptions 2,635,399 6,717 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 123,014 70,887 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ (5,112,488) \$ 762 Covered Payroll: \$ 90,501,248 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: \$ 129,754,027 \$ 330,730 • 1% increase in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 • 1% increase in the discount rate: 7.9% \$ 199,705,364 \$ 509,028 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
Contributions and Proportionate Share of Contributions \$ 34,487,859 \$ 179,109 Total Deferred Outflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 126,504 € Changes of Assumptions 2,635,399 6,717 ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 70,887 Employer Pension Expense: ♦ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions - 13,793 Total Employer Pension Expense \$ (5,112,488) \$ 762 Covered Payroll: \$ 90,501,248 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 6.9% \$ 129,754,027 \$ 330,730 ♦ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 <td></td> <td></td> <td></td> <td></td> <td></td>					
Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 ◆ Net Difference Between Projected and Actual Investment 49,630,828 126,504 Earnings on Pension Plan Investments ◆ Changes of Assumptions 2,635,399 6,717 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Deferred Inflows of Resources \$ 64,334,727 \$ 214,165 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ 762 Covered Payroli: \$ 90,501,248 \$ 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 330,730 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (6,881) ◆ 2023 \$ (14,464,343) \$ (23,000) ◆ 2024 \$ (7,845,566) \$ (8,823) ◆ 2025 \$ (4,644,485) \$ (11,804) ◆ 2026 \$ (4,644,485) \$ (11,804)			0,==0,0= :		,
♦ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 • Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 126,504 • Changes of Assumptions 2,635,399 6,717 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 70,887 Employer Pension Expense: • Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions - 13,793 Proportionate Share of Contributions \$ 90,501,248 261,062 Covered Payroll: \$ 90,501,248 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • Current discount rate: 6.9% \$ 129,754,027 \$ 330,730 • 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 • 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: • 2022 \$ (8,099,797) <td>Total Deferred Outflows of Resources</td> <td>\$</td> <td>34,487,859</td> <td>\$</td> <td>179,109</td>	Total Deferred Outflows of Resources	\$	34,487,859	\$	179,109
♦ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 10,057 • Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 126,504 • Changes of Assumptions 2,635,399 6,717 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 70,887 Employer Pension Expense: • Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions - 13,793 Proportionate Share of Contributions \$ 90,501,248 261,062 Covered Payroll: \$ 90,501,248 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • Current discount rate: 6.9% \$ 129,754,027 \$ 330,730 • 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 • 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: • 2022 \$ (8,099,797) <td>Total Deferred Inflows of Resources:</td> <td></td> <td></td> <td></td> <td></td>	Total Deferred Inflows of Resources:				
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 126,504 Changes of Assumptions 2,635,399 6,717 Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 70,887 Total Deferred Inflows of Resources \$ 64,334,727 \$ 214,165 Employer Pension Expense:		\$	3.945.486	\$	10.057
Earnings on Pension Plan Investments ◆ Changes of Assumptions 2,635,399 6,717 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 70,887 Total Deferred Inflows of Resources \$ 64,334,727 \$ 214,165 Employer Pension Expense: * (5,112,488) * (13,031) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions - 13,793 Total Employer Pension Expense \$ (5,112,488) * 762 Covered Payroll: \$ 90,501,248 * 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: * 129,754,027 * 330,730 ◆ 1% decrease in the discount rate: 5.9% * 199,705,364 * 509,028 ◆ 1% increase in the discount rate: 7.9% * 70,648,467 * 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: * 2022 * (8,899,797) * (6,881) ◆ 2023 * (14,454,343) * (23,000) * 2024 * (7,845,566) * (8,823) ◆ 2025 * (4,644,4485) * (11,804) * (·	·		•	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 70,887 Total Deferred Inflows of Resources \$ 64,334,727 \$ 214,165 Employer Pension Expense: ▼ roportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ (5,112,488) \$ (13,031) Total Employer Pension Expense \$ (5,112,488) \$ 762 Covered Payroll: \$ 90,501,248 \$ 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: \$ 129,754,027 \$ 330,730 • 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 • 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: \$ 2022 \$ (8,099,797) \$ (6,881) • 2022 \$ (8,099,797) \$ (6,881) \$ (23,000) • 2024 \$ (7,845,566) \$ (8,823) • 2025 \$ (4,644,485) \$ (11,804) \$ 2,620,074 \$ 15,452			10,000,020		120,004
Contributions and Proportionate Share of Contributions Total Deferred Inflows of Resources \$ 64,334,727 \$ 214,165 Employer Pension Expense:	♦ Changes of Assumptions		2,635,399		6,717
Contributions and Proportionate Share of Contributions \$ 64,334,727 \$ 214,165 Employer Pension Expense:	◆ Changes in Proportion and Differences Between Employer		8,123,014		70,887
Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (13,031) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ 762 Covered Payroll: \$ 90,501,248 \$ 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 330,730 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (6,881) ◆ 2023 \$ (14,454,343) \$ (23,000) ◆ 2024 \$ (7,845,566) \$ (8,823) ◆ 2025 \$ (4,644,485) \$ (11,804) ◆ 2026 \$ 2,620,074 \$ 15,452	Contributions and Proportionate Share of Contributions				
 ♦ Proportionate Share of Plan Pension Expense ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense ★ (5,112,488) ★ 762 Covered Payroll: \$ 90,501,248 \$ 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 6.9% ♦ 129,754,027 ♦ 330,730 ♦ 1% decrease in the discount rate: 5.9% ♦ 199,705,364 ♦ 509,028 ♦ 1% increase in the discount rate: 7.9% ₱ 70,648,467 ♦ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 ♦ (8,099,797) ♦ (6,881) ♦ 2023 ♦ (14,454,343) ♦ (23,000) ♦ 2024 ♦ (7,845,566) ♦ (8,823) ♦ 2025 ♦ (4,644,485) ♦ (11,804) ♦ 2026 ♦ 2,620,074 ♦ 15,452 	Total Deferred Inflows of Resources	\$	64,334,727	\$	214,165
 Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense	Employer Pension Expense:				
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$\frac{(5,112,488)}{90,501,248}\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(13,031)
Total Employer Pension Expense \$\frac{(5,112,488)}{90,501,248}\$\$ 762\$ Covered Payroll: \$\frac{90,501,248}{90,501,248}\$\$\$ 261,062\$ Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$\frac{129,754,027}{90,5364}\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	♦ Net Amortization of Deferred Amounts from Changes in		-		13,793
Total Employer Pension Expense \$ (5,112,488) \$ 762 Covered Payroll: \$ 90,501,248 \$ 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 330,730 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (6,881) ◆ 2023 \$ (14,454,343) \$ (23,000) ◆ 2024 \$ (7,845,566) \$ (8,823) ◆ 2025 \$ (4,644,485) \$ (11,804) ◆ 2026 \$ 2,620,074 \$ 15,452	• • • • • • • • • • • • • • • • • • • •				
Covered Payroll: \$ 90,501,248 \$ 261,062 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 330,730 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (6,881) ◆ 2023 \$ (14,454,343) \$ (23,000) ◆ 2024 \$ (7,845,566) \$ (8,823) ◆ 2025 \$ (4,644,485) \$ (11,804) ◆ 2026 \$ 2,620,074 \$ 15,452	and Proportionate Share of Contributions				
Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 330,730 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (6,881) ◆ 2023 \$ (14,454,343) \$ (23,000) ◆ 2024 \$ (7,845,566) \$ (8,823) ◆ 2025 \$ (4,644,485) \$ (11,804) ◆ 2026 \$ 2,620,074 \$ 15,452	Total Employer Pension Expense	\$	(5,112,488)	\$	762
♦ Current discount rate: 6.9% \$ 129,754,027 \$ 330,730 ♦ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 509,028 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (6,881) ♦ 2023 \$ (14,454,343) \$ (23,000) ♦ 2024 \$ (7,845,566) \$ (8,823) ♦ 2025 \$ (4,644,485) \$ (11,804) ♦ 2026 \$ 2,620,074 \$ 15,452	Covered Payroll:	\$	90,501,248	\$	261,062
 ♦ 1% decrease in the discount rate: 5.9% ♦ 199,705,364 \$ 509,028 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (6,881) ♦ 2023 \$ (14,454,343) \$ (23,000) ♦ 2024 \$ (7,845,566) \$ (8,823) ♦ 2025 \$ (4,644,485) \$ (11,804) ♦ 2026 \$ 2,620,074 \$ 15,452 	Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 180,076 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (6,881) ♦ 2023 \$ (14,454,343) \$ (23,000) ♦ 2024 \$ (7,845,566) \$ (8,823) ♦ 2025 \$ (4,644,485) \$ (11,804) ♦ 2026 \$ 2,620,074 \$ 15,452 					
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (6,881) ◆ 2023 \$ (14,454,343) \$ (23,000) ◆ 2024 \$ (7,845,566) \$ (8,823) ◆ 2025 \$ (4,644,485) \$ (11,804) ◆ 2026 \$ 2,620,074 \$ 15,452					·
♦ 2022 \$ (8,099,797) \$ (6,881) ♦ 2023 \$ (14,454,343) \$ (23,000) ♦ 2024 \$ (7,845,566) \$ (8,823) ♦ 2025 \$ (4,644,485) \$ (11,804) ♦ 2026 \$ 2,620,074 \$ 15,452	♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	180,076
♦ 2023 \$ (14,454,343) \$ (23,000) ♦ 2024 \$ (7,845,566) \$ (8,823) ♦ 2025 \$ (4,644,485) \$ (11,804) ♦ 2026 \$ 2,620,074 \$ 15,452	Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2024 \$ (7,845,566) \$ (8,823) ♦ 2025 \$ (4,644,485) \$ (11,804) ♦ 2026 \$ 2,620,074 \$ 15,452			, ,		
♦ 2025 \$ (4,644,485) \$ (11,804) ♦ 2026 \$ 2,620,074 \$ 15,452					
♦ 2026 \$ 2,620,074 \$ 15,452					
				•	
					-

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System	Foo	othills Health District
◆ Current Proportionate Share				0.058822%
◆ Prior Proportionate Share				0.058715%
Beginning Net Pension Liability	\$	178,581,940	\$	104,854
Ending Net Pension Liability	\$	129,754,027	\$	76,324
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	2,832
◆ Changes of Assumptions	,	21,550,522	•	12,676
◆ Changes in Proportion and Differences Between Employer		8,123,014		5,341
Contributions and Proportionate Share of Contributions		6,123,014		5,341
Total Deferred Outflows of Resources	\$	34,487,859	\$	20,849
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	2,321
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	29,194
Earnings on Pension Plan Investments		49,030,828		29,194
♦ Changes of Assumptions		2,635,399		1,550
◆ Changes in Proportion and Differences Between Employer		8,123,014		-
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	64,334,727	\$	33,065
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(3,007)
♦ Net Amortization of Deferred Amounts from Changes in	•	-		2,814
Proportion and Differences Between Employer Contributions				_,=
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(193)
Covered Payroll:	\$	90,501,248	\$	155,493
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	76,324
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	117,471
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	41,557
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(1,957)
♦ 2023	\$	(14,454,343)	\$	(6,260)
◆ 2024	\$	(7,845,566)	\$	(4,506)
♦ 2025	\$	(4,644,485)	\$	(2,643)
◆ 2026	\$	2,620,074	\$	3,150
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System		eway Regional chool District
◆ Current Proportionate Share				2.225378%
◆ Prior Proportionate Share				2.280057%
Beginning Net Pension Liability	\$	178,581,940	\$	4,071,770
Ending Net Pension Liability	\$	129,754,027	\$	2,887,517
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	107,137
◆ Changes of Assumptions	*	21,550,522	*	479,580
				479,560
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		-
Total Deferred Outflows of Resources	\$	34,487,859	\$	586,717
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	87,802
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	1,104,473
Earnings on Pension Plan Investments		49,030,626		1,104,473
♦ Changes of Assumptions		2,635,399		58,648
 ◆ Changes in Proportion and Differences Between Employer 		8,123,014		528,062
Contributions and Proportionate Share of Contributions		, ,		,
Total Deferred Inflows of Resources	\$	64,334,727	\$	1,778,985
Employer Pension Expense:				
 ◆ Proportionate Share of Plan Pension Expense 	\$	(5,112,488)	\$	(113,772)
 Net Amortization of Deferred Amounts from Changes in 		-		(142,505)
Proportion and Differences Between Employer Contributions				(= :=,===)
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(256,277)
Covered Payroll:	\$	90,501,248	\$	2,128,532
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	2,887,517
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	4,444,198
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	1,572,195
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
◆ 2022	\$	(8,099,797)	\$	(318,493)
◆ 2023	\$	(14,454,343)	\$	(451,281)
♦ 2024	\$	(7,845,566)	\$	(268,466)
◆ 2025	\$	(4,644,485)	\$	(184,827)
♦ 2026 TI	\$	2,620,074	\$	30,799
♦ Thereafter	\$	2,577,249	\$	-

♦ 2023 \$ (14,454,343) \$ (53,344)					
Pension Amounts as of December 31, 2021 System Goshen ◆ Current Proportionate Share 0.225480% 0.225072% ♣ Prior Proportionate Share 0.225072% 29257072% Beginning Net Pension Liability \$ 178,581,940 \$ 401,938 Ending Net Pension Liability \$ 129,754,027 \$ 292,570 Total Deferred Outflows of Resources: • Differences Between Expected and Actual Experience \$ 4,814,323 \$ 10,855 • Changes of Assumptions 21,550,522 48,592 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 24,476 Total Deferred Inflows of Resources: • 101fferences Between Expected and Actual Investment Earnings on Pension Plan Investments 49,630,828 111,908 • Net Difference Between Expected and Actual Investment Earnings on Pension Plan Investments 2,635,399 5,942 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 2,635,399 5,942 • Proportionate Share of Plan Pension Expense: • (5,112,488) (11,528) • Proportionate Share of Plan Pension Expense: • (5,112,488) (21,639) • Proport		На	·		
◆ Current Proportionate Share 0.225480% ◆ Prior Proportionate Share 0.225072% Beginning Net Pension Liability \$ 178,581,940 \$ 401,938 Ending Net Pension Liability \$ 129,754,027 \$ 292,570 Total Deferred Outflows of Resources:	Pension Amounts as of December 31, 2021				Goshen
• Prior Proportionate Share 0.225072% Beginning Net Pension Liability \$ 178,581,940 \$ 401,938 Ending Net Pension Liability \$ 129,754,027 \$ 292,570 Total Deferred Outflows of Resources: • Differences Between Expected and Actual Experience \$ 4,814,323 \$ 10,855 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 312,014 24,476 Total Deferred Outflows of Resources \$ 3,4487,859 \$ 83,923 Total Deferred Inflows of Resources • Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 • Net Differences Between Projected and Actual Experience \$ 3,945,486 \$ 8,896 • Net Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 • Net Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 • Net Differences Between Expected and Actual Experience \$ 2,635,399 5.942 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 123,014 128,624 Employer Pension Expense: Proportionate Share of Plan Pension Expense \$ (5,1	◆ Current Proportionate Share				0.225480%
Ending Net Pension Liability \$ 129,754,027 \$ 292,570 Total Deferred Outflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 4,814,323 \$ 10,855	◆ Prior Proportionate Share				0.225072%
Total Deferred Outflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 4,814,323 \$ 10,855 ◆ Changes of Assumptions 21,550,522 48,592 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 24,476 Total Deferred Outflows of Resources \$ 34,487,859 \$ 83,923 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 111,908 Earnings on Pension Plan Investments 4,635,399 5,942 ◆ Changes of Assumptions 2,635,399 5,942 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 123,014 128,624 Employer Pension Expense: \$ (5,112,488) \$ (11,528) ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (11,528) ◆ Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Change	Beginning Net Pension Liability	\$	178,581,940	\$	401,938
◆ Differences Between Expected and Actual Experience \$ 4,814,323 \$ 10,855 ◆ Changes of Assumptions 21,550,522 48,592 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 24,476 Total Deferred Outflows of Resources ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 111,908 € Changes of Assumptions 2,635,399 5,942 ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 128,624 * Total Deferred Inflows of Resources \$ 64,334,727 \$ 255,370 * Employer Pension Expense: \$ (5,112,488) \$ (11,528) • Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (33,167) * Covered Payroll: \$ 90,501,248 157,636 Sensitivity of the Net Pension Expense \$ (5,112,488) \$ (33,167) * Covered Payroll: \$ 90,501,248 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rat	Ending Net Pension Liability	\$	129,754,027	\$	292,570
◆ Changes of Assumptions 21,550,522 48,592 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 24,476 Total Deferred Outflows of Resources \$ 34,487,859 \$ 33,923 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 111,908 € Changes of Assumptions 2,635,399 5,942 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 64,334,727 \$ 255,370 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (11,528) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 90,501,248 \$ 157,636 Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ 1% decrease in the discount rate: 5.9% \$ 129,754,027 \$ 292,570 ◆ 1% decrease	Total Deferred Outflows of Resources:				
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 24,476 Total Deferred Outflows of Resources \$ 34,487,859 \$ 83,923 Total Deferred Inflows of Resources: ♦ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 ♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 111,908 € Changes of Assumptions 2,635,399 5,942 ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 128,624 Employer Pension Expense: ♦ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (11,528) ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions - (21,639) Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 ♦ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297	♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	10,855
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 24,476 Total Deferred Outflows of Resources \$ 34,487,859 \$ 83,923 Total Deferred Inflows of Resources: ♦ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 ♦ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 111,908 € Changes of Assumptions 2,635,399 5,942 ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 128,624 Employer Pension Expense: ♦ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (11,528) ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions - (21,639) Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 ♦ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297	◆ Changes of Assumptions		21,550,522		48,592
Total Deferred Outflows of Resources Total Deferred Inflows of Resources: Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8.896 \$ 111,908 Earnings on Pension Plan Investments Changes of Assumptions 2,635,399 5,942 \$ 129,754,027 \$ 292,570 \$ 1% decrease in the discount rate: 5.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Resources Resources in the discount rate: 7.9% \$ 129,754,027 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Res	·		8,123,014		24,476
Total Deferred Inflows of Resources: ♦ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 ♦ Net Difference Between Projected and Actual Investment 49,630,828 111,908 Earnings on Pension Plan Investments 2,635,399 5,942 ♦ Changes of Assumptions 2,635,399 5,942 ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 8,123,014 128,624 Total Deferred Inflows of Resources \$ 64,334,727 \$ 255,370 Employer Pension Expense: \$ (5,112,488) \$ (11,528) ♦ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (21,639) ♣ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • (2022) \$ (204,484) \$ (292,570) • 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 • 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 8,896 ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 111,908 ◆ Changes of Assumptions 2,635,399 5,942 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 128,624 Total Deferred Inflows of Resources \$ 64,334,727 \$ 255,370 Employer Pension Expense: * (5,112,488) * (11,528) ◆ Proportionate Share of Plan Pension Expense * (5,112,488) * (11,528) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions - (221,639) Total Employer Pension Expense \$ (5,112,488) * (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • (2022 \$ 129,754,027 \$ 292,570 • 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 • 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized i	Total Deferred Outflows of Resources	\$	34,487,859	\$	83,923
 Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments Changes of Assumptions Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Deferred Inflows of Resources Froportionate Share of Plan Pension Expense Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (11,528) Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 1% increase in the discount rate: 7.9% 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: 2022 \$ (8,099,797) \$ (40,299) 2023 \$ (14,454,343) \$ (53,344) 	Total Deferred Inflows of Resources:				
Earnings on Pension Plan Investments ◆ Changes of Assumptions Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Deferred Inflows of Resources ★ Proportionate Share of Plan Pension Expense ♦ Proportionate Share of Plan Pension Expense ♦ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions Total Employer Pension Expense ★ (5,112,488) ★ (21,639) ★ (21,639) ★ (33,167) Covered Payroll: ★ 90,501,248 ★ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ★ Current discount rate: 6.9% ★ 129,754,027 ★ 199,705,364 ★ 450,297 ★ 1% increase in the discount rate: 7.9% ★ 70,648,467 ★ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ★ 2022 ★ (8,099,797) ★ (40,299) ★ 2023 ★ (14,454,343) ★ (53,344)	♦ Differences Between Expected and Actual Experience	\$	3,945,486	\$	8,896
Earnings on Pension Plan Investments ◆ Changes of Assumptions Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Deferred Inflows of Resources \$ 64,334,727 \$ 255,370 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense ◆ Proportionate Share of Plan Pension Expense ◆ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (11,528) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (40,299) ◆ 2023 \$ (14,454,343) \$ (53,344)	◆ Net Difference Between Projected and Actual Investment		49,630,828		111,908
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions8,123,014128,624Total Deferred Inflows of Resources\$ 64,334,727\$ 255,370Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense\$ (5,112,488)\$ (11,528)♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions\$ (5,112,488)\$ (33,167)Total Employer Pension Expense\$ (5,112,488)\$ (33,167)Covered Payroll:\$ 90,501,248\$ 157,636Sensitivity of the Net Pension Liability to Changes in the Discount Rate:♦ Current discount rate: 6.9%\$ 129,754,027\$ 292,570♦ 1% decrease in the discount rate: 5.9%\$ 199,705,364\$ 450,297♦ 1% increase in the discount rate: 7.9%\$ 70,648,467\$ 159,298Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: 					
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions8,123,014128,624Total Deferred Inflows of Resources\$ 64,334,727\$ 255,370Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense\$ (5,112,488)\$ (11,528)♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions\$ (5,112,488)\$ (33,167)Total Employer Pension Expense\$ (5,112,488)\$ (33,167)Covered Payroll:\$ 90,501,248\$ 157,636Sensitivity of the Net Pension Liability to Changes in the Discount Rate:♦ Current discount rate: 6.9%\$ 129,754,027\$ 292,570♦ 1% decrease in the discount rate: 5.9%\$ 199,705,364\$ 450,297♦ 1% increase in the discount rate: 7.9%\$ 70,648,467\$ 159,298Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: 	◆ Changes of Assumptions		2,635,399		5,942
Total Deferred Inflows of Resources \$ 64,334,727 \$ 255,370 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (11,528) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (40,299) ◆ 2023 \$ (14,454,343) \$ (53,344)			8,123,014		128,624
Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (11,528) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (40,299) ◆ 2023 \$ (14,454,343) \$ (53,344)					
 ♦ Proportionate Share of Plan Pension Expense ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 6.9% ♦ 129,754,027 ♦ 292,570 ♦ 1% decrease in the discount rate: 5.9% ♦ 199,705,364 ♦ 450,297 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (40,299) ♦ 2023 \$ (14,454,343) \$ (53,344) 	Total Deferred Inflows of Resources	\$	64,334,727	\$	255,370
 ♦ Proportionate Share of Plan Pension Expense ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 6.9% ♦ 129,754,027 ♦ 292,570 ♦ 1% decrease in the discount rate: 5.9% ♦ 199,705,364 ♦ 450,297 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (40,299) ♦ 2023 \$ (14,454,343) \$ (53,344) 	Employer Pension Expense:				
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 ♦ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (40,299) ♦ 2023 \$ (14,454,343) \$ (53,344)		\$	(5,112,488)	\$	(11,528)
and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (33,167) Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 • 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 • 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: • 2022 \$ (8,099,797) \$ (40,299) • 2023 \$ (14,454,343) \$ (53,344)	♦ Net Amortization of Deferred Amounts from Changes in		-		(21,639)
Total Employer Pension Expense \$\frac{\\$(5,112,488)}{\}\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$Covered Payroll: \$\\$90,501,248 \$\\$157,636\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	Proportion and Differences Between Employer Contributions				
Covered Payroll: \$ 90,501,248 \$ 157,636 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (40,299) ◆ 2023 \$ (14,454,343) \$ (53,344)	and Proportionate Share of Contributions				
Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (40,299) ◆ 2023 \$ (14,454,343) \$ (53,344)	Total Employer Pension Expense	\$	(5,112,488)	\$	(33,167)
 Current discount rate: 6.9% \$ 129,754,027 \$ 292,570 ♦ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 450,297 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (40,299) ♦ 2023 \$ (14,454,343) \$ (53,344) 	Covered Payroll:	\$	90,501,248	\$	157,636
 ♦ 1% decrease in the discount rate: 5.9% ♦ 199,705,364 \$ 450,297 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (40,299) ♦ 2023 \$ (14,454,343) \$ (53,344) 	Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 159,298 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (40,299) ♦ 2023 \$ (14,454,343) \$ (53,344) 					
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (40,299) ◆ 2023 \$ (14,454,343) \$ (53,344)					
◆ 2022 \$ (8,099,797) \$ (40,299) ◆ 2023 \$ (14,454,343) \$ (53,344)	♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	159,298
◆ 2023 \$ (14,454,343) \$ (53,344)	Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
			, ,		(40,299)
. DDD4					
	• 2024 • 2025	\$	(7,845,566)	\$	(35,404)
 ◆ 2025 ◆ 2026 \$ (4,644,485) \$ (34,925) ◆ 2,620,074 \$ (7,475) 				-	(34,925)
◆ 2020 \$ 2,020,074 \$ (7,475) ◆ Thereafter \$ 2,577,249 \$ -					(1,413)

	На	mpshire County		
Pension Amounts as of December 31, 2021		Retirement System		Granby
◆ Current Proportionate Share		Oystom		4.654669%
◆ Prior Proportionate Share				4.535323%
Beginning Net Pension Liability	\$	178,581,940	\$	8,099,268
Ending Net Pension Liability	\$	129,754,027	\$	6,039,620
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	224,091
◆ Changes of Assumptions		21,550,522		1,003,105
◆ Changes in Proportion and Differences Between Employer		8,123,014		661,379
Contributions and Proportionate Share of Contributions		3,123,01		002,010
Total Deferred Outflows of Resources	\$	34,487,859	\$	1,888,575
Total Deferred Inflame of Decomposit				
Total Deferred Inflows of Resources:	ф	2 0 4 E 4 9 G	ф	182.640
Differences Between Expected and Actual Experience	\$	3,945,486	\$	183,649
◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		49,630,828		2,310,151
♦ Changes of Assumptions		2,635,399		122,669
◆ Changes in Proportion and Differences Between Employer		8,123,014		164,769
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	64,334,727	\$	2,781,238
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(237,969)
♦ Net Amortization of Deferred Amounts from Changes in		-		69,173
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(168,796)
Covered Payroll:	\$	90,501,248	\$	4,215,231
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	6,039,620
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	9,295,624
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	3,288,452
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	ognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(307,164)
◆ 2023	\$	(14,454,343)	\$	(594,145)
♦ 2024	\$	(7,845,566)	\$	(258,247)
♦ 2025	\$	(4,644,485)	\$	(127,424)
◆ 2026	\$	2,620,074	\$	394,317
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	Ha	mpshire County Retirement System		Granby Housing Authority		
◆ Current Proportionate Share				0.078427%		
Prior Proportionate Share				0.117426%		
Beginning Net Pension Liability	\$	178,581,940	\$	209,702		
Ending Net Pension Liability	\$	129,754,027	\$	101,762		
Total Deferred Outflows of Resources:						
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	3,776		
◆ Changes of Assumptions	•	21,550,522	,	16,901		
◆ Changes in Proportion and Differences Between Employer		8,123,014		438		
Contributions and Proportionate Share of Contributions		0,123,014		436		
Total Deferred Outflows of Resources	\$	34,487,859	\$	21,115		
Total Deferred Inflows of Resources:						
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	3,094		
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	•	38,924		
Earnings on Pension Plan Investments		43,030,828		30,924		
♦ Changes of Assumptions		2,635,399		2,067		
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		76,034		
Total Deferred Inflows of Resources	\$	64,334,727	\$	120,119		
Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	(5,112,488)	\$	(4,010) (13,405)		
Total Employer Pension Expense	\$	(5,112,488)	\$	(17,415)		
Covered Payroll:	\$	90,501,248	\$	73,709		
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:					
♦ Current discount rate: 6.9%	\$	129,754,027	\$	101,762		
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	156,623		
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	55,408		
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:		
♦ 2022	\$	(8,099,797)	\$	(19,774)		
♦ 2023	\$	(14,454,343)	\$	(24,710)		
♦ 2024	\$	(7,845,566)	\$	(19,356)		
♦ 2025	\$	(4,644,485)	\$	(16,889)		
♦ 2026	\$	2,620,074	\$	(18,275)		
♦ Thereafter	\$	2,577,249	\$	-		

Pension Amounts as of December 31, 2021	Har	mpshire County Retirement System		Hadley
◆ Current Proportionate Share				5.712544%
◆ Prior Proportionate Share				5.443802%
Beginning Net Pension Liability	\$	178,581,940	\$	9,721,647
Ending Net Pension Liability	\$	129,754,027	\$	7,412,256
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	275,020
♦ Changes of Assumptions		21,550,522		1,231,083
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		1,262,106
Total Deferred Outflows of Resources	\$	34,487,859	\$	2,768,209
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	225,388
◆ Net Difference Between Projected and Actual Investment	*	49,630,828	•	2,835,183
Earnings on Pension Plan Investments		.5,555,525		_,000,_00
◆ Changes of Assumptions		2,635,399		150,548
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		52,783
Total Deferred Inflows of Resources	\$	64,334,727	\$	3,263,902
Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	(5,112,488)	\$	(292,053) 266,746
Total Employer Pension Expense	\$	(5,112,488)	\$	(25,307)
Covered Payroll:	\$	90,501,248	\$	5,241,893
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	7,412,256
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	11,408,257
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	4,035,825
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Rec	ognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(188,309)
♦ 2023	\$	(14,454,343)	\$	(564,740)
♦ 2024	\$	(7,845,566)	\$	(233,739)
♦ 2025	\$	(4,644,485)	\$	(35,930)
♦ 2026	\$	2,620,074	\$	527,025
◆ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System		lley Housing Authority
♦ Current Proportionate Share				0.000000%
◆ Prior Proportionate Share				0.039143%
Beginning Net Pension Liability	\$	178,581,940	\$	69,903
Ending Net Pension Liability	\$	129,754,027	\$	-
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	-
♦ Changes of Assumptions	·	21,550,522		_
◆ Changes in Proportion and Differences Between Employer		8,123,014		229
Contributions and Proportionate Share of Contributions		0,123,014		229
Total Deferred Outflows of Resources	\$	34,487,859	\$	229
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	_
	Ψ		Ψ	
 Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 		49,630,828		-
♦ Changes of Assumptions		2,635,399		-
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		64,938
Total Deferred Inflows of Resources	\$	64,334,727	\$	64,938
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	-
♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		-		(10,668)
Total Employer Pension Expense	\$	(5,112,488)	\$	(10,668)
Covered Payroll:	\$	90,501,248	\$	-
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	-
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	-
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	-
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Rec	cognized in Future Po	ension I	Expense:
◆ 2022	\$	(8,099,797)	\$	(10,673)
♦ 2023	\$	(14,454,343)	\$	(10,658)
♦ 2024	\$	(7,845,566)	\$	(10,606)
◆ 2025	\$	(4,644,485)	\$	(10,621)
◆ 2026 The first transfer of the control of the co	\$	2,620,074	\$	(22,151)
◆ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System	Hampshire County Regional Housing Authority		
◆ Current Proportionate Share				0.039890%	
◆ Prior Proportionate Share				0.039143%	
Beginning Net Pension Liability	\$	178,581,940	\$	69,903	
Ending Net Pension Liability	\$	129,754,027	\$	51,759	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	1,920	
♦ Changes of Assumptions	·	21,550,522		8,596	
 ♦ Changes in Proportion and Differences Between Employer 		8,123,014		17,608	
Contributions and Proportionate Share of Contributions		6,123,014		17,000	
Total Deferred Outflows of Resources	\$	34,487,859	\$	28,124	
Total Deferred Inflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	1,574	
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	19,798	
Earnings on Pension Plan Investments		49,030,626		19,798	
♦ Changes of Assumptions		2,635,399		1,051	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		7,774	
Total Deferred Inflows of Resources	\$	64,334,727	\$	30,197	
Employer Pension Expense:					
♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(2,039)	
♦ Net Amortization of Deferred Amounts from Changes in	•	-	•	2,931	
Proportion and Differences Between Employer Contributions				2,001	
and Proportionate Share of Contributions					
Total Employer Pension Expense	\$	(5,112,488)	\$	892	
Covered Payroll:	\$	90,501,248	\$	-	
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:				
♦ Current discount rate: 6.9%	\$	129,754,027	\$	51,759	
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	79,662	
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	28,182	
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Rec	ognized in Future Po	ension	Expense:	
◆ 2022	\$	(8,099,797)	\$	(304)	
♦ 2023	\$	(14,454,343)	\$	(3,411)	
♦ 2024	\$	(7,845,566)	\$	(2,345)	
♦ 2025	\$	(4,644,485)	\$	1,133	
♦ 2026	\$	2,620,074	\$	2,854	
♦ Thereafter	\$	2,577,249	\$	-	

Pension Amounts as of December 31, 2021	Hampshire County Retirement System		Hampshire Regional School District		
◆ Current Proportionate Share				2.111603%	
◆ Prior Proportionate Share				2.058944%	
Beginning Net Pension Liability	\$	178,581,940	\$	3,676,903	
Ending Net Pension Liability	\$	129,754,027	\$	2,739,890	
Total Deferred Outflows of Resources:					
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	101,659	
◆ Changes of Assumptions	•	21,550,522	*	455,061	
				147,767	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		147,767	
Total Deferred Outflows of Resources	\$	34,487,859	\$	704,487	
Total Deferred Inflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	83,313	
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	*	1,048,006	
Earnings on Pension Plan Investments		43,030,828		1,040,000	
♦ Changes of Assumptions		2,635,399		55,649	
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		275,179	
Total Deferred Inflows of Resources	\$	64,334,727	\$	1,462,147	
Employer Pension Expense:					
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(107,955)	
◆ Net Amortization of Deferred Amounts from Changes in	•	(=,==,:==,	*	(37,593)	
Proportion and Differences Between Employer Contributions		-		(37,593)	
and Proportionate Share of Contributions					
Total Employer Pension Expense	\$	(5,112,488)	\$	(145,548)	
Covered Payroll:	\$	90,501,248	\$	1,945,047	
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:				
♦ Current discount rate: 6.9%	\$	129,754,027	\$	2,739,890	
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	4,216,985	
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	1,491,815	
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future P	ension	Expense:	
♦ 2022	\$	(8,099,797)	\$	(208,870)	
◆ 2023	\$	(14,454,343)	\$	(341,915)	
♦ 2024	\$	(7,845,566)	\$	(193,652)	
♦ 2025	\$	(4,644,485)	\$	(109,374)	
♦ 2026	\$	2,620,074	\$	96,151	
♦ Thereafter	\$	2,577,249	\$	-	

Pension Amounts as of December 31, 2021	Hai	mpshire County Retirement System		Hatfield
◆ Current Proportionate Share				2.421445%
◆ Prior Proportionate Share				2.436626%
Beginning Net Pension Liability	\$	178,581,940	\$	4,351,375
Ending Net Pension Liability	\$	129,754,027	\$	3,141,923
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	116,576
◆ Changes of Assumptions	·	21,550,522	•	521,834
◆ Changes in Proportion and Differences Between Employer		8,123,014		301,005
Contributions and Proportionate Share of Contributions		0,120,014		301,003
Total Deferred Outflows of Resources	\$	34,487,859	\$	939,415
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience	\$	3,945,486	\$	95,538
◆ Net Difference Between Projected and Actual Investment	*	49,630,828	•	1,201,783
Earnings on Pension Plan Investments		43,030,020		1,201,100
◆ Changes of Assumptions		2,635,399		63,815
◆ Changes in Proportion and Differences Between Employer		8,123,014		364,017
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	64,334,727	\$	1,725,153
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(123,796)
♦ Net Amortization of Deferred Amounts from Changes in		-		6,627
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(117,169)
Covered Payroll:	\$	90,501,248	\$	2,334,699
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	3,141,923
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	4,835,756
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	1,710,714
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Rec	ognized in Future P	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(189,115)
♦ 2023	\$	(14,454,343)	\$	(354,338)
◆ 2024	\$	(7,845,566)	\$	(236,660)
♦ 2025	\$	(4,644,485)	\$	(157,822)
♦ 2026 • Thereafter	\$	2,620,074	\$	152,197
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System		field Housing Authority
◆ Current Proportionate Share				0.029409%
◆ Prior Proportionate Share				0.029356%
Beginning Net Pension Liability	\$	178,581,940	\$	52,424
Ending Net Pension Liability	\$	129,754,027	\$	38,160
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	1,416
◆ Changes of Assumptions	•	21,550,522	•	6,338
		8,123,014		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		0,123,014		287
Total Deferred Outflows of Resources	\$	34,487,859	\$	8,041
Total Deferred Inflows of Resources;				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	1,160
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	14,596
Earnings on Pension Plan Investments		49,030,626		14,596
♦ Changes of Assumptions		2,635,399		775
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		42,593
Total Deferred Inflows of Resources	\$	64,334,727	\$	59,124
Employer Pension Expense:		_		
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(1,504)
♦ Net Amortization of Deferred Amounts from Changes in	•	-	•	(7,952)
Proportion and Differences Between Employer Contributions				(1,002)
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(9,456)
Covered Payroll:	\$	90,501,248	\$	24,527
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	38,160
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	58,732
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	20,777
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(10,698)
♦ 2023	\$	(14,454,343)	\$	(12,545)
♦ 2024	\$	(7,845,566)	\$	(10,523)
♦ 2025	\$	(4,644,485)	\$	(9,602)
♦ 2026 A Thorogetor	\$	2,620,074	\$	(7,715)
◆ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021		11-			
Pension Amounts as of December 31, 2021 System Huntington ◆ Current Proportionate Share 0.478690% ↑ Prior Proportionate Share 0.527956% ▶ Prior Proportionate Share 178,581,940 \$ 942,834 Ending Net Pension Liability \$ 129,754,027 \$ 621,119 Total Deferred Outflows of Resources: ▶ Differences Between Expected and Actual Experience \$ 4,814,323 \$ 23,046 ◆ Changes of Assumptions 21,550,522 103,160 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 1,23,014 77,568 Total Deferred Inflows of Resources: \$ 3,945,486 \$ 18,887 ♦ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18,887 Net Difference Between Projected and Actual Investment 49,630,828 237,578 Earnings on Pension Plan Investments 49,630,828 237,578 Earnings on Pension Plan Investments 49,630,828 237,578 Earnings on Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 2,635,399 12,615 Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631		на	•		
• Prior Proportionate Share 0.527956% Beginning Net Pension Liability \$ 178,581,940 \$ 942,834 Ending Net Pension Liability \$ 129,754,027 \$ 621,119 Total Deferred Outflows of Resources: • Differences Between Expected and Actual Experience 4 .814,323 \$ 23,046 • Changes of Assumptions 21,550,522 103,160 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 8,123,014 77,568 Total Deferred Inflows of Resources: * 3,945,486 \$ 18,887 • Net Difference Between Projected and Actual Experience \$ 3,945,486 \$ 18,887 • Net Difference Between Projected and Actual Investment 49,630,828 237,578 • Changes of Assumptions 2,635,399 12,615 • Changes in Proportion and Differences Between Employer Contributions and Proportiona of Resources \$ 123,014 152,551 Total Deferred Inflows of Resources \$ (5,112,488) (24,473) • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions and Proportion and Differences Between	Pension Amounts as of December 31, 2021			ı	Huntington
• Prior Proportionate Share 0.527956% Beginning Net Pension Liability \$ 178,581,940 \$ 942,834 Ending Net Pension Liability \$ 129,754,027 \$ 621,119 Total Deferred Outflows of Resources: • Differences Between Expected and Actual Experience 4 .814,323 \$ 23,046 • Changes of Assumptions 21,550,522 103,160 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 8,123,014 77,568 Total Deferred Inflows of Resources: * 3,945,486 \$ 18,887 • Net Difference Between Projected and Actual Experience \$ 3,945,486 \$ 18,887 • Net Difference Between Projected and Actual Investment 49,630,828 237,578 • Changes of Assumptions 2,635,399 12,615 • Changes in Proportion and Differences Between Employer Contributions and Proportiona of Resources \$ 123,014 152,551 Total Deferred Inflows of Resources \$ (5,112,488) (24,473) • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions and Proportion and Differences Between	◆ Current Proportionate Share				0.478690%
Ending Net Pension Liability \$ 129,754,027 \$ 621,119 Total Deferred Outflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 4,814,323 \$ 23,046 ◆ Changes of Assumptions 21,550,522 103,160 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Deferred Outflows of Resources ■ Differences Between Expected and Actual Experience \$ 34,487,859 \$ 203,774 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18,887 ◆ Net Differences Between Papected and Actual Investment Earnings on Pension Plan Investments ■ Changes of Assumptions 2,635,399 12,615 ◆ Changes of Assumptions 2,635,399 12,615 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (24,473) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (44,105) Covered Payroli: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6,9% \$ 129,754,027 \$ 621,119 ◆ 1% decrease in the discount rate: 7,9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (58,518) ◆ 2023 \$ (14,445,434) \$ (89,319) ◆ 2024 \$ (14,454,543) \$ (18,359) ◆ 2026 \$ (26,0074 \$ 2,120					0.527956%
Difference Between Expected and Actual Experience	Beginning Net Pension Liability	\$	178,581,940	\$	942,834
◆ Differences Between Expected and Actual Experience \$ 4.814,323 \$ 23.046 ◆ Changes of Assumptions 21,550,522 103,160 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 77,568 Total Deferred Outflows of Resources \$ 34,487,859 \$ 203,774 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18,887 ◆ Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 237,578 ◆ Changes of Assumptions 2,635,399 12,615 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 421,631 Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense: \$ (5,112,488) \$ (24,473) ◆ Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions \$ (5,112,488) \$ (44,105) Total Employer Pension Expense \$ (5,112,488) \$ (44,105) Covered Payroll: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Disc	Ending Net Pension Liability	\$	129,754,027	\$	621,119
◆ Changes of Assumptions 21,550,522 103,160 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 77,568 Total Deferred Outflows of Resources \$ 34,487,859 \$ 203,774 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18.887 ◆ Net Difference Between Projected and Actual Investment 49,630,828 237,578 Earnings on Pension Plan Investments 2,635,399 12,615 ◆ Changes of Assumptions 2,635,399 12,615 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 123,014 152,551 Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (24,473) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 90,501,248 \$ 486,463 Covered Payroll: \$ 90,501,248 \$ 486,463 Semsitivity of the Net Pension	Total Deferred Outflows of Resources:				
◆ Changes of Assumptions 21,550,522 103,160 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 77,568 Total Deferred Outflows of Resources \$ 34,487,859 \$ 203,774 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18,887 ◆ Net Differences Between Projected and Actual Investment 49,630,828 237,578 Earnings on Pension Plan Investments \$ 2,635,399 12,615 ◆ Changes of Assumptions 2,635,399 12,615 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 123,014 152,551 Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense: \$ (5,112,488) \$ (24,473) ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (44,105) Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 90,501,248 \$ 486,463 <td< td=""><td>Differences Between Expected and Actual Experience</td><td>\$</td><td>4,814,323</td><td>\$</td><td>23,046</td></td<>	Differences Between Expected and Actual Experience	\$	4,814,323	\$	23,046
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 77,568 Total Deferred Outflows of Resources \$ 34,487,859 \$ 203,774 Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18,887 ◆ Net Differences Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 237,578 € Changes of Assumptions 2,635,399 12,615 ♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ 421,631 Employer Pension Expense: ♦ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (24,473) ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions \$ (5,112,488) \$ (44,105) Covered Payroll: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • Current discount rate: 6.9% \$ 129,754,027 \$ 621,119 • 1% decrease in the discount rate: 7.9% \$ 199,705,364 \$ 955,969 • 1% increase in the discount rate: 7.		•			
Contributions and Proportionate Share of Contributions \$ 34,487,859 \$ 203,774 Total Deferred Outflows of Resources: • Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18,887 • Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 237,578 • Changes of Assumptions 2,635,399 12,615 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 152,551 Employer Pension Expense: • Proportionate Share of Plan Pension Expense \$ (5,112,488) (24,473) • Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions • (5,112,488) (44,105) Covered Payroll: \$ 90,501,248 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • (2021) • (2021) • (2021) • (2021) • (2021) • (2021) • (2022) • (2023) • (2024) • (2023) • (2024) • (2024) • (2025) • (2026) • (2026) • (2026) • (2026) • (2026) • (2026) • (2026) • (2026) • (202					
Total Deferred Inflows of Resources: ◆ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18,887 ◆ Net Difference Between Projected and Actual Investment 49,630,828 237,578 Earnings on Pension Plan Investments ◆ Changes of Assumptions 2,635,399 12,615 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (24,473) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (44,105) Covered Payroll: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6,9% \$ 129,754,027 \$ 621,119 + 1% decrease in the discount rate: 5,9% \$ 199,705,364 \$ 955,969 • 1% increase in the discount rate: 7,9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: • 2022 \$ (8,099,797) \$ (58,518) • 2023 \$ (14,454,343) \$ (89,319) • 2024 \$ (7,845,566) \$ (33,781) • 2025 \$ (4,644,485) \$ (18,359) • 2026 \$ (4,644,485) \$ (18,359) • 2026 \$ (4,644,485) \$ (18,359)			3,123,31		11,000
♦ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18,887 • Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 237,578 • Changes of Assumptions 2,635,399 12,615 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 152,551 Employer Pension Expense: • Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (24,473) • Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions - (19,632) • Total Employer Pension Expense \$ (5,112,488) \$ (44,105) • Covered Payroll: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • Current discount rate: 6.9% \$ 129,754,027 \$ 621,119 • 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 955,969 • 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: • 2022 \$ (8,099,797) (58,518) </td <td>Total Deferred Outflows of Resources</td> <td>\$</td> <td>34,487,859</td> <td>\$</td> <td>203,774</td>	Total Deferred Outflows of Resources	\$	34,487,859	\$	203,774
♦ Differences Between Expected and Actual Experience \$ 3,945,486 \$ 18,887 • Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 237,578 • Changes of Assumptions 2,635,399 12,615 • Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 152,551 Employer Pension Expense: • Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (24,473) • Net Amortization of Deferred Amounts from Changes in Proportionate Share of Contributions and Proportionate Share of Contributions - (19,632) • Total Employer Pension Expense \$ (5,112,488) \$ (44,105) • Covered Payroll: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • Current discount rate: 6.9% \$ 129,754,027 \$ 621,119 • 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 955,969 • 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: • 2022 \$ (8,099,797) (58,518) </td <td>Total Deferred Inflows of Resources:</td> <td></td> <td></td> <td></td> <td></td>	Total Deferred Inflows of Resources:				
Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments 49,630,828 237,578 Changes of Assumptions 2,635,399 12,615 Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 152,551 Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense:		\$	3 945 486	\$	18 887
Earnings on Pension Plan Investments ◆ Changes of Assumptions 2,635,399 12,615 ◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 152,551 Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense: * (5,112,488) (24,473) ◆ Proportionate Share of Plan Pension Expense * (5,112,488) (24,473) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions - (19,632) Total Employer Pension Expense \$ 90,501,248 486,463 Covered Payroll: \$ 90,501,248 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • (201,119) • (201,119) • 1% decrease in the discount rate: 5.9% \$ 129,754,027 \$ 621,119 • 1% decrease in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: • (2022 \$ (8,099,797) \$ (58,518) • 2022 \$ (8,093,799) \$ (58,518) \$ (22,444,454,343) \$ (89,319)<	·	*		Ψ	·
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions 8,123,014 152,551 Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense: ♦ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (24,473) ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions - (19,632) Total Employer Pension Expense \$ (5,112,488) \$ (44,105) Covered Payroll: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 6.9% \$ 129,754,027 \$ 621,119 ♦ 1% decrease in the discount rate: 7.9% \$ 199,705,364 \$ 955,969 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (58,518) ♦ 2023 \$ (14,444,455,43) \$ (89,319) ♦ 2024 \$ (7,845,566) \$ (53,781) ♦ 2025 \$ (4,644,485			+3,030,020		201,010
Contributions and Proportionate Share of Contributions Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense:	♦ Changes of Assumptions		2,635,399		12,615
Total Deferred Inflows of Resources \$ 64,334,727 \$ 421,631 Employer Pension Expense:	◆ Changes in Proportion and Differences Between Employer		8,123,014		152,551
Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense \$ (5,112,488) \$ (24,473) ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$ (5,112,488) \$ (44,105) Covered Payroll: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 621,119 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 955,969 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (58,518) ◆ 2023 \$ (14,454,343) \$ (89,319) ◆ 2024 \$ (7,845,566) \$ (53,781) ◆ 2025 \$ (4,644,485) \$ (18,359) ◆ 2026 \$ 2,620,074 \$ 2,120	Contributions and Proportionate Share of Contributions				
 ◆ Proportionate Share of Plan Pension Expense ♦ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense ★ (5,112,488) ★ (44,105) Covered Payroll: ★ 90,501,248 ★ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ♦ Current discount rate: 6.9% ★ 129,754,027 ★ 621,119 ♠ 1% decrease in the discount rate: 5.9% ★ 199,705,364 ★ 955,969 ♠ 1% increase in the discount rate: 7.9% ★ 70,648,467 ★ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♠ 2022 ♠ (8,099,797) ♠ (58,518) ♠ 2023 ♠ (14,454,343) ♠ (89,319) ♠ 2024 ♠ (7,845,566) ♠ (53,781) ♠ 2025 ♠ (4,644,485) ♠ (18,359) ♠ 2026 ♠ 2,620,074 ♠ 2,120 	Total Deferred Inflows of Resources	\$	64,334,727	\$	421,631
 Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense	Employer Pension Expense:				
Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions Total Employer Pension Expense \$\frac{(5,112,488)}{90,501,248}\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(24,473)
Total Employer Pension Expense \$\frac{(5,112,488)}{(5,112,488)}\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$Covered Payroll:\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	♦ Net Amortization of Deferred Amounts from Changes in		-		(19,632)
Total Employer Pension Expense \$ (5,112,488) \$ (44,105) Covered Payroll: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 621,119 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 955,969 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (58,518) ◆ 2023 \$ (14,454,343) \$ (89,319) ◆ 2024 \$ (7,845,566) \$ (53,781) ◆ 2025 \$ (4,644,485) \$ (18,359) ◆ 2026 \$ 2,620,074 \$ 2,120	Proportion and Differences Between Employer Contributions				
Covered Payroll: \$ 90,501,248 \$ 486,463 Sensitivity of the Net Pension Liability to Changes in the Discount Rate: • Current discount rate: 6.9% \$ 129,754,027 \$ 621,119 • 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 955,969 • 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: • 2022 \$ (8,099,797) \$ (58,518) • 2023 \$ (14,454,343) \$ (89,319) • 2024 \$ (7,845,566) \$ (53,781) • 2025 \$ (4,644,485) \$ (18,359) • 2026 \$ 2,620,074 \$ 2,120	and Proportionate Share of Contributions				
Sensitivity of the Net Pension Liability to Changes in the Discount Rate: ◆ Current discount rate: 6.9% \$ 129,754,027 \$ 621,119 ◆ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 955,969 ◆ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (58,518) ◆ 2023 \$ (14,454,343) \$ (89,319) ◆ 2024 \$ (7,845,566) \$ (53,781) ◆ 2025 \$ (4,644,485) \$ (18,359) ◆ 2026 \$ 2,620,074 \$ 2,120	Total Employer Pension Expense	\$	(5,112,488)	\$	(44,105)
 ◆ Current discount rate: 6.9% ♦ 129,754,027 \$ 621,119 ♦ 1% decrease in the discount rate: 5.9% \$ 199,705,364 \$ 955,969 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (58,518) ♦ 2023 \$ (14,454,343) \$ (89,319) ♦ 2024 \$ (7,845,566) \$ (53,781) ♦ 2025 \$ (4,644,485) \$ (18,359) ♦ 2026 \$ 2,620,074 \$ 2,120 	Covered Payroll:	\$	90,501,248	\$	486,463
 ♦ 1% decrease in the discount rate: 5.9% ♦ 199,705,364 \$ 955,969 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (58,518) ♦ 2023 \$ (14,454,343) \$ (89,319) ♦ 2024 \$ (7,845,566) \$ (53,781) ♦ 2025 \$ (4,644,485) \$ (18,359) ♦ 2026 \$ 2,620,074 \$ 2,120 	Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
 ♦ 1% increase in the discount rate: 7.9% \$ 70,648,467 \$ 338,187 Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ♦ 2022 \$ (8,099,797) \$ (58,518) ♦ 2023 \$ (14,454,343) \$ (89,319) ♦ 2024 \$ (7,845,566) \$ (53,781) ♦ 2025 \$ (4,644,485) \$ (18,359) ♦ 2026 \$ 2,620,074 \$ 2,120 			· · ·		
Deferred Outflows of Resources and Deferred Inflows of Resources Recognized in Future Pension Expense: ◆ 2022 \$ (8,099,797) \$ (58,518) ◆ 2023 \$ (14,454,343) \$ (89,319) ◆ 2024 \$ (7,845,566) \$ (53,781) ◆ 2025 \$ (4,644,485) \$ (18,359) ◆ 2026 \$ 2,620,074 \$ 2,120					
◆ 2022 \$ (8,099,797) \$ (58,518) ◆ 2023 \$ (14,454,343) \$ (89,319) ◆ 2024 \$ (7,845,566) \$ (53,781) ◆ 2025 \$ (4,644,485) \$ (18,359) ◆ 2026 \$ 2,620,074 \$ 2,120	◆ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	338,187
♦ 2023 \$ (14,454,343) \$ (89,319) ♦ 2024 \$ (7,845,566) \$ (53,781) ♦ 2025 \$ (4,644,485) \$ (18,359) ♦ 2026 \$ 2,620,074 \$ 2,120	Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Pe	ension	Expense:
♦ 2024 \$ (7,845,566) \$ (53,781) ♦ 2025 \$ (4,644,485) \$ (18,359) ♦ 2026 \$ 2,620,074 \$ 2,120			, ,		
♦ 2025 \$ (4,644,485) \$ (18,359) ♦ 2026 \$ 2,620,074 \$ 2,120					
♦ 2026 \$ 2,620,074 \$ 2,120					
				•	
	◆ 2026 ◆ Thereafter	\$	2,520,074	\$ \$	2,120

	Ha	mpshire County		
Pension Amounts as of December 31, 2021		Retirement System	ı	Middlefield
◆ Current Proportionate Share				0.205872%
 ◆ Prior Proportionate Share 				0.189268%
Beginning Net Pension Liability	\$	178,581,940	\$	337,998
Ending Net Pension Liability	\$	129,754,027	\$	267,127
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	9,911
◆ Changes of Assumptions		21,550,522		44,366
◆ Changes in Proportion and Differences Between Employer		8,123,014		35,557
Contributions and Proportionate Share of Contributions		3,123,01		33,331
Total Deferred Outflows of Resources	\$	34,487,859	\$	89,834
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	8,123
◆ Net Difference Between Projected and Actual Investment		49,630,828		102,176
Earnings on Pension Plan Investments		.0,000,020		
♦ Changes of Assumptions		2,635,399		5,426
◆ Changes in Proportion and Differences Between Employer		8,123,014		31,711
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	64,334,727	\$	147,436
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(10,525)
♦ Net Amortization of Deferred Amounts from Changes in		-		(47)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(10,572)
Covered Payroll:	\$	90,501,248	\$	195,698
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	267,127
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	411,137
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	145,445
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future P	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(16,750)
♦ 2023	\$	(14,454,343)	\$	(29,754)
♦ 2024	\$	(7,845,566)	\$	(16,462)
♦ 2025 • 2026	\$	(4,644,485)	\$	(12,156)
♦ 2026 ♦ Thereafter	\$ \$	2,620,074 2,577,249	\$ \$	17,520
• moroutto	Ψ	2,011,243	Ψ	-

Pension Amounts as of December 31, 2021	Hai	mpshire County Retirement System		Pelham
◆ Current Proportionate Share				0.901915%
◆ Prior Proportionate Share				0.851353%
Beginning Net Pension Liability	\$	178,581,940	\$	1,520,363
Ending Net Pension Liability	\$	129,754,027	\$	1,170,271
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	43,421
◆ Changes of Assumptions	·	21,550,522	•	194,367
◆ Changes in Proportion and Differences Between Employer		8,123,014		127,229
Contributions and Proportionate Share of Contributions		0,120,014		121,220
Total Deferred Outflows of Resources	\$	34,487,859	\$	365,017
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	35,585
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	*	447,628
Earnings on Pension Plan Investments		49,030,828		447,020
♦ Changes of Assumptions		2,635,399		23,769
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		100,769
Total Deferred Inflows of Resources	\$	64,334,727	\$	607,751
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(46,110)
♦ Net Amortization of Deferred Amounts from Changes in	*	-	•	(13,648)
Proportion and Differences Between Employer Contributions				(13,040)
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(59,758)
Covered Payroll:	\$	90,501,248	\$	887,891
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	1,170,271
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	1,801,172
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	637,189
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Rec	ognized in Future P	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(87,896)
◆ 2023	\$	(14,454,343)	\$	(144,264)
◆ 2024	\$	(7,845,566)	\$	(74,123)
♦ 2025	\$	(4,644,485)	\$	(19,001)
♦ 2026	\$	2,620,074	\$	82,550
♦ Thereafter	\$	2,577,249	\$	-

	На	mpshire County Retirement		
Pension Amounts as of December 31, 2021		System		Plainfield
◆ Current Proportionate Share				0.284295%
◆ Prior Proportionate Share				0.264212%
Beginning Net Pension Liability	\$	178,581,940	\$	471,834
Ending Net Pension Liability	\$	129,754,027	\$	368,885
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	13,687
◆ Changes of Assumptions		21,550,522		61,267
◆ Changes in Proportion and Differences Between Employer		8,123,014		34,284
Contributions and Proportionate Share of Contributions		0,220,02		0 .,20 .
Total Deferred Outflows of Resources	\$	34,487,859	\$	109,238
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	11,217
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	•	141,098
Earnings on Pension Plan Investments		10,000,020		111,000
♦ Changes of Assumptions		2,635,399		7,492
◆ Changes in Proportion and Differences Between Employer		8,123,014		56,969
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	64,334,727	\$	216,776
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(14,535)
♦ Net Amortization of Deferred Amounts from Changes in		-		(7,663)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(22,198)
Covered Payroll:	\$	90,501,248	\$	307,923
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	368,885
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	567,753
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	200,850
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future P	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(31,444)
♦ 2023	\$	(14,454,343)	\$	(49,391)
♦ 2024	\$	(7,845,566)	\$	(30,183)
♦ 2025 • 2026	\$	(4,644,485)	\$	(21,188)
♦ 2026 ♦ Thereafter	\$ \$	2,620,074 2,577,249	\$ \$	24,668
* moroutto	Ψ	2,011,270	Ψ	-

Pension Amounts as of December 31, 2021	Ha	mpshire County Retirement System	Qu	abbin Health District
◆ Current Proportionate Share				0.266990%
◆ Prior Proportionate Share				0.268255%
Beginning Net Pension Liability	\$	178,581,940	\$	479,055
Ending Net Pension Liability	\$	129,754,027	\$	346,431
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	12,854
◆ Changes of Assumptions	•	21,550,522	•	57,538
		8,123,014		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		6,123,014		33,076
Total Deferred Outflows of Resources	\$	34,487,859	\$	103,468
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	10,534
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	•	132,509
Earnings on Pension Plan Investments		49,030,828		132,309
♦ Changes of Assumptions		2,635,399		7,036
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		17,972
Total Deferred Inflows of Resources	\$	64,334,727	\$	168,051
Employer Pension Expense:		_		
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(13,650)
♦ Net Amortization of Deferred Amounts from Changes in		- · · · · ·		6,677
Proportion and Differences Between Employer Contributions				3,3
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(6,973)
Covered Payroll:	\$	90,501,248	\$	269,745
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	346,431
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	533,194
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	188,624
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(14,880)
◆ 2023	\$	(14,454,343)	\$	(32,341)
♦ 2024	\$	(7,845,566)	\$	(17,098)
♦ 2025	\$	(4,644,485)	\$	(10,583)
♦ 2026	\$	2,620,074	\$	10,319
♦ Thereafter	\$	2,577,249	\$	-

	На	mpshire County Retirement		
Pension Amounts as of December 31, 2021		System	s	outhampton
◆ Current Proportionate Share				3.424514%
 ◆ Prior Proportionate Share 				3.373125%
Beginning Net Pension Liability	\$	178,581,940	\$	6,023,791
Ending Net Pension Liability	\$	129,754,027	\$	4,443,445
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	164,867
◆ Changes of Assumptions	•	21,550,522	·	738,001
◆ Changes in Proportion and Differences Between Employer		8,123,014		305,775
Contributions and Proportionate Share of Contributions		0,120,01		300,110
Total Deferred Outflows of Resources	\$	34,487,859	\$	1,208,643
Total Deferred Inflows of Resources;				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	135,114
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	1,699,615
Earnings on Pension Plan Investments		49,030,828		1,099,013
♦ Changes of Assumptions		2,635,399		90,250
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		-
Total Deferred Inflows of Resources	\$	64,334,727	\$	1,924,979
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(175,078)
 Net Amortization of Deferred Amounts from Changes in 		-		78,167
Proportion and Differences Between Employer Contributions				•
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(96,911)
Covered Payroll:	\$	90,501,248	\$	2,953,336
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	4,443,445
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	6,838,938
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	2,419,367
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	ognized in Future P	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(194,001)
◆ 2023	\$	(14,454,343)	\$	(413,536)
♦ 2024	\$	(7,845,566)	\$	(202,784)
♦ 2025	\$	(4,644,485)	\$	(124,509)
◆ 2026 ◆ Thereafter	\$	2,620,074 2,577,249	\$ \$	218,494
▼ Incidate	\$	2,311,249	Ф	-

	Ha	mpshire County		
Pension Amounts as of December 31, 2021		Retirement System	9	South Hadley
◆ Current Proportionate Share				13.438442%
 ◆ Prior Proportionate Share 				13.327336%
Beginning Net Pension Liability	\$	178,581,940	\$	23,800,215
Ending Net Pension Liability	\$	129,754,027	\$	17,436,920
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	646,970
◆ Changes of Assumptions		21,550,522		2,896,054
◆ Changes in Proportion and Differences Between Employer		8,123,014		946,233
Contributions and Proportionate Share of Contributions		0,==0,0= :		0.10,200
Total Deferred Outflows of Resources	\$	34,487,859	\$	4,489,257
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	530,212
◆ Net Difference Between Projected and Actual Investment	·	49,630,828	·	6,669,610
Earnings on Pension Plan Investments		10,000,020		0,000,010
◆ Changes of Assumptions		2,635,399		354,157
◆ Changes in Proportion and Differences Between Employer		8,123,014		595,298
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	64,334,727	\$	8,149,277
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(687,039)
♦ Net Amortization of Deferred Amounts from Changes in		-		(59,822)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(746,861)
Covered Payroll:	\$	90,501,248	\$	12,165,871
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	17,436,920
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	26,837,290
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	9,494,053
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ensior	Expense:
♦ 2022	\$	(8,099,797)	\$	(1,153,901)
♦ 2023	\$	(14,454,343)	\$	(1,972,841)
◆ 2024	\$	(7,845,566)	\$	(930,670)
♦ 2025 • 2026	\$	(4,644,485)	\$	(416,435)
♦ 2026 ♦ Thereafter	\$ \$	2,620,074 2,577,249	\$ \$	813,827
▼ Increate	Ψ	2,511,249	Ψ	-

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System		outh Hadley sing Authority
◆ Current Proportionate Share				0.245085%
◆ Prior Proportionate Share				0.249032%
Beginning Net Pension Liability	\$	178,581,940	\$	444,726
Ending Net Pension Liability	\$	129,754,027	\$	318,008
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	11,799
◆ Changes of Assumptions	Ψ	21,550,522	Ψ	52,817
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		5,037
Total Deferred Outflows of Resources	\$	34,487,859	\$	69,653
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	9,670
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	•	121,638
Earnings on Pension Plan Investments		43,030,020		121,000
♦ Changes of Assumptions		2,635,399		6,459
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		13,722
Total Deferred Inflows of Resources	\$	64,334,727	\$	151,489
Employer Pension Expense:		_		
♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(12,530)
♦ Net Amortization of Deferred Amounts from Changes in		-		490
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(12,040)
Covered Payroll:	\$	90,501,248	\$	224,182
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	318,008
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	489,449
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	173,149
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(19,750)
♦ 2023	\$	(14,454,343)	\$	(35,815)
♦ 2024	\$	(7,845,566)	\$	(21,488)
♦ 2025	\$	(4,644,485)	\$	(13,730)
◆ 2026	\$	2,620,074	\$	8,947
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	Hampshire County Retirement System		South Hadley- Easthampton Veteran's District		
◆ Current Proportionate Share				0.058822%	
◆ Prior Proportionate Share				0.058715%	
Beginning Net Pension Liability	\$	178,581,940	\$	104,854	
Ending Net Pension Liability	\$	129,754,027	\$	76,324	
Total Deferred Outflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	2,832	
♦ Changes of Assumptions	•	21,550,522	*	12,676	
		8,123,014			
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		0,123,014		405	
Total Deferred Outflows of Resources	\$	34,487,859	\$	15,913	
Total Deferred Inflows of Resources:					
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	2,321	
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	29,194	
Earnings on Pension Plan Investments		49,030,626		29,194	
◆ Changes of Assumptions		2,635,399		1,550	
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		11,398	
Total Deferred Inflows of Resources	\$	64,334,727	\$	44,463	
Employer Pension Expense:					
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(3,007)	
◆ Net Amortization of Deferred Amounts from Changes in	Ψ	(3,112,400)	Ψ	(2,741)	
Proportion and Differences Between Employer Contributions		-		(2,741)	
and Proportionate Share of Contributions					
Total Employer Pension Expense	\$	(5,112,488)	\$	(5,748)	
Covered Payroll:	\$	90,501,248	\$	60,000	
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:				
♦ Current discount rate: 6.9%	\$	129,754,027	\$	76,324	
◆ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	117,471	
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	41,557	
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future P	ension	Expense:	
♦ 2022	\$	(8,099,797)	\$	(7,514)	
◆ 2023	\$	(14,454,343)	\$	(11,226)	
♦ 2024	\$	(7,845,566)	\$	(7,247)	
◆ 2025	\$	(4,644,485)	\$	(5,387)	
◆ 2026	\$	2,620,074	\$	2,824	
◆ Thereafter	\$	2,577,249	\$	-	

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System		nth Hadley Fire District No.1
◆ Current Proportionate Share				2.421445%
◆ Prior Proportionate Share				2.368127%
Beginning Net Pension Liability	\$	178,581,940	\$	4,229,048
Ending Net Pension Liability	\$	129,754,027	\$	3,141,923
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	116,576
◆ Changes of Assumptions	•	21,550,522	•	521,834
-		8,123,014		88,279
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		6,123,014		00,219
Total Deferred Outflows of Resources	\$	34,487,859	\$	726,689
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	95,538
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	•	1,201,783
Earnings on Pension Plan Investments		+3,030,020		1,201,700
♦ Changes of Assumptions		2,635,399		63,815
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		221,260
Total Deferred Inflows of Resources	\$	64,334,727	\$	1,582,396
Employer Pension Expense:				
♦ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(123,796)
♦ Net Amortization of Deferred Amounts from Changes in		-		(58,220)
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(182,016)
Covered Payroll:	\$	90,501,248	\$	2,386,190
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	3,141,923
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	4,835,756
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	1,710,714
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(255,060)
♦ 2023	\$	(14,454,343)	\$	(400,924)
♦ 2024	\$	(7,845,566)	\$	(208,646)
♦ 2025	\$	(4,644,485)	\$	(123,133)
◆ 2026	\$	2,620,074	\$	132,056
◆ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	На	mpshire County Retirement System		ith Hadley Fire District No.2
◆ Current Proportionate Share				0.990146%
◆ Prior Proportionate Share				1.066638%
Beginning Net Pension Liability	\$	178,581,940	\$	1,904,822
Ending Net Pension Liability	\$	129,754,027	\$	1,284,754
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	47,669
◆ Changes of Assumptions	*	21,550,522	Ψ	213,382
◆ Changes in Proportion and Differences Between Employer		8,123,014		73,985
Contributions and Proportionate Share of Contributions		0,123,014		13,965
Total Deferred Outflows of Resources	\$	34,487,859	\$	335,036
Total Deferred Inflows of Resources;				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	39,066
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	491,418
Earnings on Pension Plan Investments		49,030,626		491,410
♦ Changes of Assumptions		2,635,399		26,094
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		250,358
Total Deferred Inflows of Resources	\$	64,334,727	\$	806,936
Employer Pension Expense:		_		
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(50,621)
♦ Net Amortization of Deferred Amounts from Changes in		-		(44,149)
Proportion and Differences Between Employer Contributions				(, ,
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(94,770)
Covered Payroll:	\$	90,501,248	\$	914,104
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	1,284,754
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	1,977,375
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	699,523
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(129,844)
♦ 2023	\$	(14,454,343)	\$	(192,903)
♦ 2024	\$	(7,845,566)	\$	(118,685)
♦ 2025	\$	(4,644,485)	\$	(51,960)
◆ 2026	\$	2,620,074	\$	21,492
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	Hai	mpshire County Retirement System		Ware
◆ Current Proportionate Share				8.254026%
◆ Prior Proportionate Share				8.576706%
Beginning Net Pension Liability	\$	178,581,940	\$	15,316,447
Ending Net Pension Liability	\$	129,754,027	\$	10,709,931
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	397,375
♦ Changes of Assumptions	·	21,550,522		1,778,786
◆ Changes in Proportion and Differences Between Employer		8,123,014		704,367
Contributions and Proportionate Share of Contributions		0,120,014		104,301
Total Deferred Outflows of Resources	\$	34,487,859	\$	2,880,528
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	325,661
♦ Net Difference Between Projected and Actual Investment	•	49,630,828	•	4,096,541
Earnings on Pension Plan Investments		10,000,020		1,000,011
♦ Changes of Assumptions		2,635,399		217,527
◆ Changes in Proportion and Differences Between Employer		8,123,014		939,805
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	64,334,727	\$	5,579,534
Employer Pension Expense:				
 ◆ Proportionate Share of Plan Pension Expense 	\$	(5,112,488)	\$	(421,986)
♦ Net Amortization of Deferred Amounts from Changes in		-		(41,887)
Proportion and Differences Between Employer Contributions				,
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(463,873)
Covered Payroll:	\$	90,501,248	\$	7,539,842
Sensitivity of the Net Pension Liability to Changes in the Discour	t Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	10,709,931
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	16,483,732
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	5,831,343
Deferred Outflows of Resources and Deferred Inflows of Resources	ces Rec	ognized in Future Pe	ensior	Expense:
◆ 2022	\$	(8,099,797)	\$	(715,056)
◆ 2023	\$	(14,454,343)	\$	(1,242,327)
◆ 2024	\$	(7,845,566)	\$	(703,123)
♦ 2025	\$	(4,644,485)	\$	(423,418)
♦ 2026	\$	2,620,074	\$	384,918
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	Ha	mpshire County Retirement System		are Housing Authority
◆ Current Proportionate Share				0.266944%
◆ Prior Proportionate Share				0.267520%
Beginning Net Pension Liability	\$	178,581,940	\$	477,743
Ending Net Pension Liability	\$	129,754,027	\$	346,370
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	12,852
◆ Changes of Assumptions	•	21,550,522	*	57,528
		8,123,014		
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		6,123,014		33,622
Total Deferred Outflows of Resources	\$	34,487,859	\$	104,002
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	10,532
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	*	132,486
Earnings on Pension Plan Investments		49,030,020		132,400
♦ Changes of Assumptions		2,635,399		7,035
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		2,158
Total Deferred Inflows of Resources	\$	64,334,727	\$	152,211
Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	(5,112,488)	\$	(13,647) 8,586
Total Employer Pension Expense	\$	(5,112,488)	\$	(5,061)
Covered Payroll:	\$	90,501,248	\$	240,153
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	346,370
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	533,101
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	188,592
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(13,341)
♦ 2023	\$	(14,454,343)	\$	(31,019)
♦ 2024	\$	(7,845,566)	\$	(16,034)
♦ 2025	\$	(4,644,485)	\$	(7,365)
♦ 2026	\$	2,620,074	\$	19,550
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	Ha	mpshire County Retirement System	W	esthampton
◆ Current Proportionate Share				0.803879%
◆ Prior Proportionate Share				0.831778%
Beginning Net Pension Liability	\$	178,581,940	\$	1,485,405
Ending Net Pension Liability	\$	129,754,027	\$	1,043,066
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	38,701
◆ Changes of Assumptions	•	21,550,522	•	173,240
◆ Changes in Proportion and Differences Between Employer		8,123,014		31,071
Contributions and Proportionate Share of Contributions		0,123,014		31,071
Total Deferred Outflows of Resources	\$	34,487,859	\$	243,012
Total Deferred Inflows of Resources:				
Differences Between Expected and Actual Experience	\$	3,945,486	\$	31,717
Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	398,972
Earnings on Pension Plan Investments		49,030,626		390,912
♦ Changes of Assumptions		2,635,399		21,185
◆ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		113,005
Total Deferred Inflows of Resources	\$	64,334,727	\$	564,879
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(41,098)
♦ Net Amortization of Deferred Amounts from Changes in	Ψ	(0,111,100)	Ψ	(11,107)
Proportion and Differences Between Employer Contributions		-		(11,107)
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	(52,205)
Covered Payroll:	\$	90,501,248	\$	786,580
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	1,043,066
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	1,605,390
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	567,928
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Rec	ognized in Future P	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	(72,773)
♦ 2023	\$	(14,454,343)	\$	(126,458)
♦ 2024	\$	(7,845,566)	\$	(83,794)
♦ 2025	\$	(4,644,485)	\$	(60,576)
◆ 2026	\$	2,620,074	\$	21,734
♦ Thereafter	\$	2,577,249	\$	-

Pension Amounts as of December 31, 2021	Hai	mpshire County Retirement System	W	/illiamsburg
◆ Current Proportionate Share				1.052386%
◆ Prior Proportionate Share				1.178864%
Beginning Net Pension Liability	\$	178,581,940	\$	2,105,237
Ending Net Pension Liability	\$	129,754,027	\$	1,365,513
Total Deferred Outflows of Resources:				
♦ Differences Between Expected and Actual Experience	\$	4,814,323	\$	50,665
♦ Changes of Assumptions		21,550,522		226,795
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		60,856
Total Deferred Outflows of Resources	\$	34,487,859	\$	338,316
Total Deferred Inflows of Resources:	-			
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	41,522
◆ Net Difference Between Projected and Actual Investment	Ψ	49,630,828	Ψ	522,308
Earnings on Pension Plan Investments		40,000,020		022,000
♦ Changes of Assumptions		2,635,399		27,735
♦ Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		8,123,014		264,816
Total Deferred Inflows of Resources	\$	64,334,727	\$	856,381
Employer Pension Expense: ◆ Proportionate Share of Plan Pension Expense ◆ Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	\$	(5,112,488)	\$	(53,803) (19,713)
Total Employer Pension Expense	\$	(5,112,488)	\$	(73,516)
Covered Payroll:	\$	90,501,248	\$	1,038,898
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	1,365,513
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	2,101,671
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	743,494
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Rec	ognized in Future Po	ension	Expense:
◆ 2022	\$	(8,099,797)	\$	(102,878)
♦ 2023	\$	(14,454,343)	\$	(174,824)
♦ 2024	\$	(7,845,566)	\$	(125,583)
♦ 2025	\$	(4,644,485)	\$	(96,508)
◆ 2026	\$	2,620,074	\$	(18,272)
◆ Thereafter	\$	2,577,249	\$	-

	На	mpshire County		
Pension Amounts as of December 31, 2021		Retirement System	٧	Vorthington
◆ Current Proportionate Share				0.805460%
◆ Prior Proportionate Share				0.766737%
Beginning Net Pension Liability	\$	178,581,940	\$	1,369,254
Ending Net Pension Liability	\$	129,754,027	\$	1,045,116
Total Deferred Outflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	4,814,323	\$	38,777
◆ Changes of Assumptions		21,550,522		173,581
◆ Changes in Proportion and Differences Between Employer		8,123,014		460,673
Contributions and Proportionate Share of Contributions		0,120,01		100,010
Total Deferred Outflows of Resources	\$	34,487,859	\$	673,031
Total Deferred Inflows of Resources:				
◆ Differences Between Expected and Actual Experience	\$	3,945,486	\$	31,779
◆ Net Difference Between Projected and Actual Investment	•	49,630,828	•	399,756
Earnings on Pension Plan Investments		10,000,020		000,100
♦ Changes of Assumptions		2,635,399		21,227
◆ Changes in Proportion and Differences Between Employer		8,123,014		31,925
Contributions and Proportionate Share of Contributions				
Total Deferred Inflows of Resources	\$	64,334,727	\$	484,687
Employer Pension Expense:				
◆ Proportionate Share of Plan Pension Expense	\$	(5,112,488)	\$	(41,179)
♦ Net Amortization of Deferred Amounts from Changes in		-		101,003
Proportion and Differences Between Employer Contributions				
and Proportionate Share of Contributions				
Total Employer Pension Expense	\$	(5,112,488)	\$	59,824
Covered Payroll:	\$	90,501,248	\$	712,859
Sensitivity of the Net Pension Liability to Changes in the Discour	nt Rate:			
♦ Current discount rate: 6.9%	\$	129,754,027	\$	1,045,116
♦ 1% decrease in the discount rate: 5.9%	\$	199,705,364	\$	1,608,546
♦ 1% increase in the discount rate: 7.9%	\$	70,648,467	\$	569,045
Deferred Outflows of Resources and Deferred Inflows of Resour	ces Red	cognized in Future Po	ension	Expense:
♦ 2022	\$	(8,099,797)	\$	31,220
♦ 2023	\$	(14,454,343)	\$	(24,849)
♦ 2024	\$	(7,845,566)	\$	12,407
◆ 2025	\$	(4,644,485)	\$	47,231
♦ 2026 A Thoroafter	\$	2,620,074	\$	122,335
◆ Thereafter	\$	2,577,249	\$	-

APPENDIX D - CALCULATION OF SINGLE DISCOUNT RATE

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 Fiduciary Net Position at the beginning of each period is compared to the amount of benefit payments 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 6.9%; 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 6.9%.