

GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2022



Submitted by:

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November 28, 2022

Mr. Kevin Tennant Finance Director City of Morgantown 389 Spruce Street Morgantown, WV 26505 Captain Matthew Solomon
Pension Board Secretary
City of Morgantown
Policemen's Pension and Relief Fund

Re: City of Morgantown Policemen's Pension and Relief Fund GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2022

Dear Kevin,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Morgantown Policemen's Pension and Relief Fund to be included in the City's financial statements for FY 2022. The GASB 67 information has been provided as of June 30, 2022 (the GASB 68 measurement date for FY 2022).

Methodology, Reliance and Certification

This report is prepared for the City. The report contains the actuarial information to be included with the City's financial statements for the year ending June 30, 2022 (the City's fiscal year end date) as required by GASB 68. This information has been prepared for use in the financial statements of the City. This information is not intended for, nor should it be used for, any additional purposes.

The total pension liability is based on the July 1, 2021 actuarial valuation rolled forward to June 30, 2022. The methods, assumptions, and participant data used are detailed in the July 1, 2021 actuarial valuation report with the exception of the actuarial cost method. These calculations are based on the Entry Age Normal cost method as required by GASB 67. The calculation of the Actuarially Determined Contribution (ADC) for the fiscal year ending June 30, 2022 is contained in the July 1, 2020 actuarial valuation report. The discount rate assumption may have changed if a blended rate was used for GASB purposes.

The included calculations are based on a blended discount rate of 4.02%. The plan's expected gross rate of investment return of 4.25% has been blended with the 3.69% yield corresponding to the 20-year maturity on a municipal general obligation AA bond yield curve published on Fidelity's Fixed Income Market Data webpage as of June 30, 2022. The development of the blended discount rate is included within this report.

The long-term nominal expected rate of return on pension plan investments was determined using a methodology approved by the Municipal Pensions Oversight Board (MPOB) and is based on the funded status (current and projected), equity exposure, and funding policy.

The included calculations assume that the members and the City will continue to make all required contributions in accordance with the City's funding policy.

Mr. Kevin Tennant November 28, 2022 Page 2

Methodology, Reliance and Certification (cont.)

These calculations and comparisons with assets are applicable for the valuation date only. The future is uncertain, and the plan may become better funded or more poorly funded in the future. This valuation does not provide any guarantee that the plan will be able to provide the promised benefits in the future.

This is a deterministic valuation in that it is based on a single set of assumptions. This set of assumptions is one possible basis for our calculations. Other assumptions may be equally valid. The future is uncertain and the plan's actual experience will differ from the assumptions; the differences may be significant or material because the results are very sensitive to the assumptions made and, in some cases, to the interaction between the assumptions. We may consider that some factors are not material to the valuation of the plan and may not provide a specific assumption for those factors. We may have used other assumptions in the past. We will likely consider changes in assumptions at a future date.

The City is responsible for selecting the plan's funding policy based on four methods allowed for under state law. The actuarial valuation methods are chosen by the actuary in accordance with actuarial standards of practice promulgated by the Actuarial Standards Board of the American Academy of Actuaries and as required by GASB 67 & 68. The MPOB selects the asset valuation methods and assumptions; these selections are reviewed by a qualified actuary no less than every five years. The actuary shall provide a report to the Board with recommendations on any changes to the actuarial process. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in this report. The City and MPOB are solely responsible for communicating to Bolton Partners, Inc. any changes required thereto.

The City could reasonably ask how the valuation would change if we used a different assumption set or if plan experience exhibited variations from our assumptions. This report does not contain such an analysis. That type of analysis would be a separate assignment.

The cost of this plan is determined by the benefits promised by the plan, the plan's participant population, the investment experience of the plan and many other factors. An actuarial valuation is a budgeting tool for the City or, in this case, a measure of accounting expense. It does not affect the cost of the plan. As the experience of the plan evolves, it is normal for the level of contributions and expense of the plan to change.

We make every effort to ensure that our calculations are accurately performed. We reserve the right to correct any potential errors by amending the results of this report or by including the corrections in a future valuation report.

Because modeling all aspects of a situation is not possible or practical, we may use summary information, estimates, or simplifications of calculations to facilitate the modeling of future events in an efficient and cost-effective manner. We may also exclude factors or data that are immaterial in our judgment. Use of such simplifying techniques does not, in our judgment, affect the reasonableness of valuation results for the plan.

The valuation was completed using both proprietary and third-party models (including software and tools). We have tested these models to ensure they are used for their intended purposes, within their known limitations, and without any known material inconsistencies unless otherwise stated.



Mr. Kevin Tennant November 28, 2022 Page 3

Methodology, Reliance and Certification (cont.)

This report is based on plan provisions, census data, and asset data submitted by the City. We have relied on this information for purposes of preparing this report, but have not performed an audit. The accuracy of the results presented in this report is dependent upon the accuracy and completeness of the underlying information. The plan sponsor is solely responsible for the validity and completeness of this information.

The City is solely responsible for selecting the plan's investment policies, asset allocations and individual investments. Bolton Partners, Inc.'s actuaries have not provided any investment advice to the City.

The information in this report was prepared for the internal use of the City, the plan and their auditors in connection with our actuarial valuations of the pension plan as required by GASB 68. This report may not be used for any other purpose; Bolton Partners, Inc. is not responsible for the consequences of any unauthorized use or the reliance on this information by any other party.

The calculation of actuarial liabilities for valuation purposes is based on a current estimate of future benefit payments. The calculation includes a computation of the "present value" of those estimated future benefit payments using an assumed discount rate; the higher the discount rate assumption, the lower the estimated liability will be. For purposes of estimating the liabilities (future and accrued) in this report, an assumption based on the expected long-term rate of return on plan investments is used. If the plan is expected to become insolvent, the return assumption is blended with a long-term municipal bond rate. Using a lower discount rate assumption, such as a rate solely based on long-term bond yields, could substantially increase the estimated present value of future and accrued liabilities.

This report provides certain financial calculations for use by the auditor. These values have been computed in accordance with our understanding of generally accepted actuarial principles and practices and fairly reflect the actuarial position of the plan. The various actuarial assumptions and methods which have been used are, in our opinion, appropriate for the purposes of this report.

The report is conditioned on the assumption of an ongoing plan and is not meant to present the actuarial position of the plan in the case of plan termination. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions, changes in economic or demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status), and changes in plan provisions or applicable law.

The undersigned enrolled actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. The July 1, 2021 actuarial valuation report contains information that is integral to the results contained herein and a copy may be provided upon request.

Sincerely,

James Ritchie, ASA, EA, FCA, MAAA

Jordan McClane, FSA, EA, FCA, MAAA



Actuarial Information to Include in the Financial Statements for the June 30, 2022 Measurement Date



Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2022, were as follows:

Total pension liability	\$ 77,638,288
Plan fiduciary net position	 (16,258,285)
Employer's net pension liability	\$ 61,380,003
Plan fiduciary net position as a percentage	20.94%
of the total pension liability	

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2021 rolled forward to June 30, 2022 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.50 percent
Salary increases	Rates vary by years of service
Single discount rate (BOY)	3.16%
Single discount rate (EOY)	4.02%
Investment rate of return (BOY)	4.25%, net of pension plan investment expense, including inflation
Investment rate of return (EOY)	4.25%, net of pension plan investment expense, including inflation
Long-term municpal bond rate (BOY)	1.92%
Long-term municpal bond rate (EOY)	3.69%
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019
Year Fund is projected to be fully funded	2058
Year assets are expected to be depleted	2036
for a closed plan	

The above is a summary of key actuarial assumptions. Full descriptions of the actuarial assumptions are available in the July 1, 2021 actuarial valuation report.

Sensitivity of the net pension liability to changes in the discount rate

		Current	
	1% Decrease 3.02%	Discount Rate 4.02%	1% Increase 5.02%
Employer's net pension liability	\$ 74,863,321	\$ 61,380,003	\$ 50,789,077

City of Morgantown, West Virginia Policemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements for the June 30, 2022 Measurement Date



Changes in the Net Pension Liability

	lı Total Pension Liability (a)	ncrease (Decrease Plan Fiduciary Net Position (b)) Net Pension Liability (a) - (b)
Balances at 6/30/21	\$ 89,066,326	\$ 19,707,129	\$ 69,359,197
Changes for the year:			
Service cost	2,486,762		2,486,762
Interest	2,769,438		2,769,438
Changes of benefit terms	-		-
Differences between expected and actual experience	(2,446,179)		(2,446,179)
Changes of assumptions	(11,386,282)		(11,386,282)
Contributions - employer (including Premium Tax Allocation)		1,945,569	(1,945,569)
Contributions - member		427,163	(427,163)
Net investment income		(2,967,547)	2,967,547
Benefit payments, including refunds of member contributions	(2,851,777)	(2,851,777)	-
Administrative expense		(2,252)	2,252
Other			
Net Changes	(11,428,038)	(3,448,844)	(7,979,194)
Balances at 6/30/22	\$ 77,638,288	\$ 16,258,285	\$ 61,380,003
Return on Investments		(15.2%)	

Actuarial Information to Include in the Financial Statements for the June 30, 2022 Measurement Date



Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2022

Note	Description	Amount
Α	Service cost	\$ 2,486,762
В	Interest on the total pension liability	2,769,438
Α	Changes of benefit terms	-
С	Differences between expected and actual experience	177,428
С	Changes of assumptions	(3,403,429)
Α	Employee contributions	(427,163)
D	Projected earnings on pension plan investments	(827,325)
С	Differences between expected and actual earnings on plan investments	295,856
Α	Pension plan administrative expense	2,252
Α	Other changes in fiduciary net position	-
	Total Pension Expense	\$ 1,073,819

Notes:

A Provided in the Changes in Net Pension Liability exhibit.

B Based on the following calculation:

	Amount Perioc (a)		Interest Rate (c)	Projected Earnings (a) x (b) x (c)
Beginning total pension liability	\$ 89,066	,326 100%	3.16%	\$ 2,814,496
Service cost (End of Year)	2,486	762 0%	3.16%	-
Benefit payments, including refunds of employee contributions	(2,851	,777) 50%	3.16%	(45,058)
Total interest on the total pension liability				\$ 2,769,438

C Provided in the Schedules of Deferrals.

D Based on the following calculation:

	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	Ea	ojected rnings (b) x (c)
Beginning plan fiduciary net position	\$ 19,707,129	100%	4.25%		837,553
Employer contributions	1,945,569	50%	4.25%		41,343
Employee contributions	427,163	50%	4.25%		9,077
Benefit payments, including refunds of employee contributions	(2,851,777)	50%	4.25%		(60,600)
Administrative expense and other	(2,252)	50%	4.25%		(48)
Total Projected Earnings				\$	827,325

City of Morgantown, West Virginia Policemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements for the June 30, 2022 Measurement Date



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

At June 30, 2022, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	red Outflows Resources	Deferred Inflows of Resources			
Differences between expected and actual experience	\$ 2,132,009	\$	2,066,949		
Changes of assumptions	2,839,076		10,036,125		
Net difference between projected and actual earnings	1,505,794				
on pension plan investments			-		
Total	\$ 6,476,879	\$	12,103,074		

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year ended June 30:	
2023	\$ (2,232,467)
2024	(2,322,534)
2025	(1,830,170)
2026	758,976
2027	-
Thereafter	-

Actuarial Information to Include in the Financial Statements for the June 30, 2022 Measurement Date



Changes in the Employer's Net Pension Liability and Related Ratios Last 10 Fiscal Years

otal pension liability	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Service cost	\$ 2,486,762	\$ 3,023,828	\$ 2,805,260	\$ 2,680,359	\$ 2,644,826	\$ 2,861,572	\$ 1,530,284	\$ 1,410,460	\$ 1,376,895	\$
Interest	2,769,438	2,983,210	2,871,014	2,736,305	2,664,956	2,354,181	2,409,970	2,333,177	2,364,924	
Changes of benefit terms	-	-	-	-	-	-	-	-	-	
Differences between expected and actual experience	(2,446,179)	(464,631)	3,310,369	838,051	1,320,613	(95,360)	440,163	(935,554)	-	
Changes of assumptions	(11,386,282)	(2,850,909)	5,490,501	281,487	(474,554)	(6,346,566)	16,140,037	927,148	1,904,795	
Benefit payments, including refunds of member contributions	(2,851,777)	(2,733,260)	(2,643,614)	(2,452,251)	(2,258,026)	(2,119,629)	(2,098,886)	(2,007,907)	(1,918,832)	
Net change in total pension liability	(11,428,038)	(41,762)	11,833,530	4,083,951	3,897,815	(3,345,802)	18,421,568	1,727,324	3,727,782	
Total pension liability - beginning	89,066,326	89,108,088	77,274,558	73,190,607	69,292,792	72,638,594	54,217,026	52,489,702	48,761,920	
Total pension liability - ending (a)	\$ 77,638,288	\$ 89,066,326	\$ 89,108,088	\$ 77,274,558	\$ 73,190,607	\$ 69,292,792	\$ 72,638,594	\$ 54,217,026	\$ 52,489,702	\$
Plan fiduciary net position	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Contributions - employer (including Premium Tax Allocation)	\$ 1,945,569	\$ 1,922,014	\$ 1,957,930	\$ 2,000,979	\$ 1,904,788	\$ 1,703,185	\$ 1,445,898	\$ 1,299,492	\$ 1,236,729	\$
Contributions - member	427,163	406,609	455,534	465,680	437,588	423,661	360,533	343,444	260,782	·
Net investment income	(2,967,547)	3,717,867	(6,359)	890,424	466,764	1,349,142	(313,457)	372,888	1,430,259	
Benefit payments, including refunds of member contributions	(2,851,777)	(2,733,260)	(2,643,614)	(2,452,251)	(2,258,026)	(2,119,629)	(2,098,886)	(2,007,907)	(1,918,832)	
Administrative expense	(2,252)	(1,811)	(1,740)	-	(1,620)	(1,560)	(1,994)	(1,344)	(1,275)	
Other	-	-	-	(2,132)	-	198	267	-	-	
Net change in plan fiduciary net position	\$ (3,448,844)	\$ 3,311,419	\$ (238,249)	\$ 902,700	\$ 549,494	\$ 1,354,997	\$ (607,639)	\$ 6,573	\$ 1,007,663	\$
Plan fiduciary net position - beginning	19,707,129	16,395,710	16,633,959	15,731,259	15,181,765	13,826,768	14,434,407	14,472,339	13,464,676	
Plan fiduciary net position - ending (b)	\$ 16,258,285	\$ 19,707,129	\$ 16,395,710	\$ 16,633,959	\$ 15,731,259	\$ 15,181,765	\$ 13,826,768	\$ 14,478,912	\$ 14,472,339	\$
Employer's net pension liability - ending (a)-(b)	\$ 61,380,003	\$ 69,359,197	\$ 72,712,378	\$ 60,640,599	\$ 57,459,348	\$ 54,111,027	\$ 58,811,826	\$ 39,738,114	\$ 38,017,363	\$
Plan fiduciary net position as a percentage of the										
otal pension liability	20.94%	22.13%	18.40%	21.53%	21.49%	21.91%	19.04%	26.71%	27.57%	N/
Covered payroll	\$ 4,261,421	\$ 4,446,616	\$ 4,683,481	\$ 4,424,855	\$ 4,424,620	\$ 4,054,650	\$ 3,527,889	\$ 3,381,767	\$ 3,514,416	N/A
Employer's net pension liability as a percentage of										
	4 4 4 0 0 0 0 0 4	4550.000/	4550 500/		4000 000/	4004 540/	4007.050/	4475 070/	1081.75%	N
overed payroll	1440.36%	1559.82%	1552.53%	1370.45%	1298.63%	1334.54%	1667.05%	1175.07%	1081.75%	IN,

Notes to Schedule:

Benefit changes: There were no changes for FY2022.

Changes of assumptions: The discount rate changed from 3.16% to 4.02%.

^{*}Market value of assets as of July 1, 2015, excludes \$44,505, included in the market value of assets as of June 30, 2015, used for the actuarial valuation report for the fiscal year end June 30, 2015.

Actuarial Information to Include in the Financial Statements for the June 30, 2022 Measurement Date



Schedule of Employer Contributions

Last 10 Fiscal Years

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Actuarially determined contribution	\$ 4,903,381	\$ 5,101,824	\$ 4,709,413	\$ 4,499,599	\$ 3,983,176	\$ 3,675,688	\$ 3,285,978	\$ 2,478,419	\$ 2,480,580	\$ 2,339,128
Contributions in relation to the actuarially determined contribution										
Employer provided	1,233,680	1,158,547	1,219,659	1,295,000	1,212,990	1,073,218	848,356	720,778	673,624	629,555
State provided	711,889	763,467	738,271	705,979	691,798	629,967	597,542	578,714	563,105	821,786
Contribution deficiency (excess)	\$ 2,957,812	\$ 3,179,810	\$ 2,751,483	\$ 2,498,620	\$ 2,078,388	\$ 1,972,503	\$ 1,840,080	\$ 1,178,927	\$ 1,243,851	\$ 887,787
Covered payroll	\$ 4,261,421	\$ 4,446,616	\$ 4,683,481	\$ 4,424,855	\$ 4,424,620	\$ 4,054,650	\$ 3,527,889	\$ 3,381,767	\$ 3,514,416	\$ 3,281,961
Contributions as a percentage of covered employee payroll	45.66%	43.22%	41.81%	45.22%	43.05%	42.01%	40.98%	38.43%	35.19%	44.22%

Notes to Schedule

Valuation date

Actuarially determined contribution amounts are calculated as of the beginning of the fiscal year (July 1) for the year immediately following the fiscal year. The assumption shown below are those used in the 7/1/2020 actuarial valuation to calculate the FY2022 ADC. Assumptions used to determine all contributions in the past would not have been the same.

Methods and assumptions used to determine contribution rates:

Actuarial cost method Entry Age Normal
Amortization method Level Dollar
Remaining amortization period 15 to 28.5 years
Asset valuation method Market Value
Inflation 2.50 percent

Salary increases Rates vary by years of service

Investment rate of return 4.25%, net of pension plan investment expense, including inflation

Retirement age Rates vary by age

Mortality SOA PubS-2010(B) with generational projection using Scale MP-2019

Actuarial Information to Include in the Financial Statements for the June 30, 2022 Measurement Date



Schedule of Differences between Projected and Actual Earnings on Pension Plan Investments

In conformity with paragraph 33b of Statement 68, the effects of differences between projected and actual earnings on pension plan investments are recognized in pension expense using a systematic and rational method over a closed five-year period, beginning in the current reporting period. The following table illustrates the application of this requirement.

Year	and	Differences tween Projected I Actual Earnings n Pension Plan Investments	Recognition Period (Years)	Increas	e (Dec	crease) in Per	ision	Expense Aris	sing fr	om the Reco	gnitio	on of Differenc	es be	tween Project	ted ar	nd Actual Eari	nings	on Plan Inves	itmen	ts 2026
2018	\$	106,189	5	\$ 21,238		21,238		21,238		21,238		21,237								
2019		(182,241)	5		\$	(36,448)		(36,448)		(36,448)		(36,448)		(36,449)						
2020		749,670	5				\$	149,934		149,934		149,934		149,934		149,934				
2021		(2,989,205)	5						\$	(597,841)		(597,841)		(597,841)		(597,841)		(597,841)		
2022		3,794,872	5								\$	758,974		758,974		758,974		758,974		758,976
Net increa	se (de	ecrease) in pension	expense								\$	295,856	\$	274,618	\$	311,067	\$	161,133	\$	758,976

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

		Bala June							
Year	tment Earnings than Projected (a)		Investment Earnings Greater Than Projected (b)		Amounts Recognized in Pension Expense Through June 30, 2022 (c)		Deferred Outflows of Resources (a) - (c)		Deferred Inflows of Resources (b) - (c)
2018	\$ 106,189	\$	-	\$	106,189	\$	-	\$	-
2019	-		182,241		145,792		-		36,449
2020	749,670		-		449,802		299,868		-
2021	-		2,989,205		1,195,682		-		1,793,523
2022	3,794,872		-		758,974		3,035,898		-
						\$	3,335,766	\$	1,829,972

for the June 30, 2022 Measurement Date



Schedule of Differences between Expected and Actual Experience

In conformity with paragraph 33a of Statement 68, the effects of differences between expected and actual experience are recognized in pension expense, beginning in the current reporting period, using a systematic and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

			Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Expected and Actual Experience																	
Year	Differences between Expected and Actual Experience	Recognition Period (Years)	Prior	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023		2024	2025	2026	2027	Thereafter
Prior	-	-															-	-	-	-
2013	-	-																		
2014	-	-																		
2015	(935,554)	5.198539				\$ (179,965)	(179,965)	(179,965)	(179,965)	(179,965)	(35,729)									
2016	440,163	5.430906					\$ 81,048	81,048	81,048	81,048	81,048	34,923								
2017	(95,360)	5.645252						\$ (16,892)	(16,892)	(16,892)	(16,892)	(16,892)	(10,900)							
2018	1,320,613	5.879103							\$ 224,628	224,628	224,628	224,628	224,628	19	,473					
2019	838,051	6.000000								\$ 139,675	139,675	139,675	139,675	139	,675	139,676				
2020	3,310,369	6.000000									\$ 551,728	551,728	551,728	55	,728	551,728	551,729			
2021	(464,631)	4.000000										\$ (116,158)	(116,158)	(110	5,158)	(116,157)				
2022	(2,446,179)	4.000000											\$ (611,545)	(61	,545)	(611,545)	(611,544)			
Net increas	e (decrease) in pen	sion expense											\$ 177,428	\$ 16	,173	\$ (36,298)	\$ (59,815)	\$ -	\$ -	\$ -

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

Year	Experience Losses (a)	Experience Gains (b)	Pensio	unts Recognized in on Expense Through June 30, 2022 (c)	Baland June 30 Deferred Outflows of Resources (a) - (c)	
Prior	\$ -	\$	- \$	-	\$ -	\$ -
2013	-		-	-	-	-
2014	-		-	-	-	-
2015	-		935,554	935,554	-	-
2016	440,163		-	440,163	-	-
2017	-		95,360	95,360	-	-
2018	1,320,613		-	1,123,140	197,473	-
2019	838,051		-	558,700	279,351	-
2020	3,310,369		-	1,655,184	1,655,185	-
2021	-		464,631	232,316	-	232,315
2022	-	2	2,446,179	611,545	-	1,834,634
					\$ 2,132,009	\$ 2,066,949

for the June 30, 2022 Measurement Date



Schedule of Changes of Assumptions

In conformity with paragraph 33a of Statement 68, the effects of changes of assumptions should be recognized in pension expense, beginning in the current reporting period, using a systematic and rational method over a closed period equal to the average of the remaining service lives of all employees that are provided with pensions through the pension plan (active and inactive employees), determined as of the beginning of the measurement period. The following table illustrates the application of this requirement.

	Increase (Decrease) in Pension Expense Arising from the Effects of Changes of Assumptions Recognition																		
Year	Changes of Assumptions	Period (Years)	Prior	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Thereafter
Prior	\$ -	-																	
2013	-	-																	
2014	-	-																	
2015	927,148	5.198539				\$ 178,348	178,348	178,348	178,348	178,348	35,408								
2016	16,140,037	5.430906					\$ 2,971,887	2,971,887	2,971,887	2,971,887	2,971,887	1,280,602							
2017	(6,346,566)	5.645252						\$ (1,124,231)	(1,124,231)	(1,124,231)	(1,124,231)	(1,124,231)	(725,411)						
2018	(474,554)	5.879103							\$ (80,719)	(80,719)	(80,719)	(80,719)	(80,719)	(70,959)					
2019	281,487	6.000000								\$ 46,915	46,915	46,915	46,915	46,915	46,912				
2020	5,490,501	6.000000									\$ 915,084	915,084	915,084	915,084	915,084	915,081			
2021	(2,850,909)	4.000000										\$ (712,727)	(712,727)	(712,727)	(712,728)				
2022	(11,386,282)	4.000000											\$ (2,846,571)	(2,846,571)	(2,846,571)	(2,846,569)			
Net increas	e (decrease) in pe	nsion expense											\$ (3,403,429)	\$ (2,668,258)	\$ (2,597,303)	\$ (1,931,488)	\$ -	\$	- \$ -

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

					ces at 0, 2022
Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2022 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$ -	\$ -	\$ -	\$ -
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	927,148	-	927,148	-	-
2016	16,140,037	-	16,140,037	-	-
2017	-	6,346,566	6,346,566	-	-
2018	-	474,554	403,595	-	70,959
2019	281,487		187,660	93,827	-
2020	5,490,501	-	2,745,252	2,745,249	-
2021	-	2,850,909	1,425,454	-	1,425,455
2022	-	11,386,282	2,846,571	-	8,539,711
				\$ 2,839,076	\$ 10,036,125

for the June 30, 2022 Measurement Date

Projection of Pension Plan's Fiduciary Net Position



	Gross Normal Cost				Emplo	ns	Employer Normal Cost (BOY)						enses		Employer Contributions (MOY)					Premium Tax Allocation					
		(BOY)		_	_	(BOY)							_		 IOY)				(MOY)					OY)	
Fiscal Year	Current Members	Future Members	Total		Current lembers	Future Members		Total	Current Members		iture nbers	Total		ırrent mbers	iture nbers	Total		Current Members	Future Members		Total	Current Members		ture nbers	Total
2022	\$ 1,783,519	\$ -	\$ 1,783,519	\$	427,163	\$ -	\$	427,163	\$ 1,356,35	6 \$	-	\$ 1,356,356	\$	2,252	\$ - \$	2,252	\$	1,233,680	\$ -	\$	1,233,680	\$ 711,889	\$	-	\$ 711,889
2023	\$ 1,669,270	\$ 138,185	\$ 1,807,455	\$	368,977	\$ 32,707	7 \$	401,684	\$ 1,300,29	3 \$ 1	05,478	\$ 1,405,771	\$	2,191	\$ (325) \$	1,866	\$	1,207,328	\$ 107,371	\$	1,314,699	\$ 647,136	\$	-	\$ 647,136
2024	\$ 1,523,448	\$ 305,262	\$ 1,828,710	\$	335,134	\$ 70,645	5 \$	405,779	\$ 1,188,31	4 \$ 2	34,617	\$ 1,422,931	\$	2,177	\$ (222) \$	1,955	\$	1,162,060	\$ 239,329	\$	1,401,389	\$ 651,717	\$	-	\$ 651,717
2025	\$ 1,405,440	\$ 490,772	\$ 1,896,212	\$	307,051	\$ 111,838	3 \$	418,889	\$ 1,098,38	9 \$ 3	78,934	\$ 1,477,323	\$	2,179	\$ (146) \$	2,033	\$	1,107,160	\$ 386,757	\$	1,493,917	\$ 684,052	\$	-	\$ 684,052
2026	\$ 1,303,212	\$ 636,646	\$ 1,939,858	\$	283,500	\$ 144,713	3 \$	428,213	\$ 1,019,71	2 \$ 4	91,933		\$	2,197	(98) \$	2,099	\$	1,090,606	\$ 502,180	\$	1,592,786	\$ 700,408	\$	-	\$ 700,408
2027	\$ 1,188,292	\$ 799,460	\$ 1,987,752	\$	258,555	\$ 180,522	2 \$	439,077	\$ 929,73	7 \$ 6	18,938	\$ 1,548,675	\$	2,197	(15) \$	2,182	\$	1,066,587	\$ 631,939	\$	1,698,526	\$ 722,098	\$	-	\$ 722,098
2028	\$ 1,094,927	\$ 955,653	\$ 2,050,580	\$	237,853	\$ 214,636	5 \$	452,489	\$ 857,07	4 \$ 7	41,017	\$ 1,598,091	\$	2,214	\$ 54 \$	2,268	\$	1,054,893	\$ 756,654	\$	1,811,547	\$ 749,163	\$	-	\$ 749,163
2029	\$ 1,019,948	\$ 1,102,458	\$ 2,122,406	\$	220,416	\$ 246,585	5 \$	467,001	\$ 799,53	2 \$ 8	55,873	\$ 1,655,405	\$	2,211	130 \$	2,341	\$	1,058,291	\$ 874,001	\$	1,932,292	\$ 776,907	\$	-	\$ 776,907
2030	\$ 937,353	\$ 1,238,233	\$ 2,175,586	\$	200,574	\$ 275,387	7 \$	475,961	\$ 736,77	9 \$ 9	62,846	\$ 1,699,625	\$	2,227	189 \$	2,416	\$	1,078,113	\$ 983,283	\$	2,061,396	\$ 795,485	\$	-	\$ 795,485
2031	\$ 855,439	\$ 1,399,726	\$ 2,255,165	\$	181,229	\$ 308,943	3 \$	490,172	\$ 674,21	0 \$ 1,0	90,783	\$ 1,764,993	\$	2,262	\$ 231 \$	2,493	\$	1,085,501	\$ 1,113,952	\$	2,199,453	\$ 814,527	\$	-	\$ 814,527
2032	\$ 795,493	\$ 1,543,138	\$ 2,338,631	\$	167,555	\$ 339,248	3 \$	506,803	\$ 627,93	8 \$ 1,2	03,890	\$ 1,831,828	\$	2,277	\$ 295 \$	2,572	\$	1,117,448	\$ 1,229,501	\$	2,346,949	\$ 834,046	\$	-	\$ 834,046
2033	\$ 743,488	\$ 1,681,408	\$ 2,424,896	\$	155,363	\$ 368,555	5 \$	523,918	\$ 588,12	5 \$ 1,3	12,853	\$ 1,900,978	\$	2,291	\$ 345 \$	2,636	\$	1,163,912	\$ 1,340,806	\$	2,504,718	\$ 867,526	\$	-	\$ 867,526
2034	\$ 683,654	\$ 1,821,471	\$ 2,505,125	\$	141,397	\$ 397,478	3 \$	538,875	\$ 542,25	7 \$ 1,4	23,993	\$ 1,966,250	\$	2,304	\$ 416 \$	2,720	\$	1,219,060	\$ 1,454,354	\$	2,673,414	\$ 915,058	\$	-	\$ 915,058
2035	\$ 606,404	\$ 1,965,970	\$ 2,572,374	\$	124,139	\$ 426,243	3 \$	550,382	\$ 482,26	5 \$ 1,5	39,727	\$ 2,021,992	\$	2,317	\$ 489 \$	2,806	\$	1,281,223	\$ 1,572,595	\$	2,853,818	\$ 937,002	\$	-	\$ 937,002
2036	\$ 527,783	\$ 2,131,218	\$ 2,659,001	\$	106,924	\$ 458,653	3 \$	565,577	\$ 420,85	9 \$ 1,6	72,565	\$ 2,093,424	\$	2,329	\$ 566 \$	2,895	\$	1,338,462	\$ 1,708,303	\$	3,046,765	\$ 1,008,023	\$	-	\$ 1,008,023
2037	\$ 440,220	\$ 2,282,243	\$ 2,722,463	\$	88,233	\$ 487,089	9 \$	575,322	\$ 351,98	7 \$ 1,7	95,154	\$ 2,147,141	\$	2,340	\$ 647 \$	2,987	\$	1,419,598	\$ 1,833,551	\$	3,253,149	\$ 1,048,677	\$	-	\$ 1,048,677
2038	\$ 361,155	\$ 2,467,592	\$ 2,828,747	\$	72,025	\$ 522,590	\$	594,615	\$ 289,13	0 \$ 1,9	45,002	\$ 2,234,132	\$	2,350	\$ 732 \$	3,082	\$	1,487,370	\$ 1,986,635	\$	3,474,005	\$ 1,073,778	\$	-	\$ 1,073,778
2039	\$ 307,594	\$ 2,624,684	\$ 2,932,278	\$	61,867	\$ 553,494	4 \$	615,361	\$ 245,72	7 \$ 2,0	71,190	\$ 2,316,917	\$	2,384	\$ 775 \$	3,159	\$	1,594,834	\$ 2,115,520	\$	3,710,354	\$ 1,131,273	\$	-	\$ 1,131,273
2040	\$ 274,190	\$ 2,788,120	\$ 3,062,310	\$	55,062	\$ 585,987	7 \$	641,049	\$ 219,12	8 \$ 2,2	02,133	\$ 2,421,261	\$	2,393	\$ 845 \$	3,238	\$	1,713,931	\$ 2,249,286	\$	3,963,217	\$ 1,158,400	\$	-	\$ 1,158,400
2041	\$ 242,115	\$ 2,944,990	\$ 3,187,105	\$	48,354	\$ 616,625	5 \$	664,979	\$ 193,76	1 \$ 2,3	28,365	\$ 2,522,126	\$	2,401	\$ 918 \$	3,319	\$	1,855,672	\$ 2,378,246	\$	4,233,918	\$ 1,186,206	\$	-	\$ 1,186,206
2042	\$ 207,977	\$ 3,106,399	\$ 3,314,376	\$	41,248	\$ 647,714	4 \$	688,962	\$ 166,72	9 \$ 2,4	58,685	\$ 2,625,414	\$	2,408	\$ 994 \$	3,402	\$	2,012,329	\$ 2,511,382	\$	4,523,711	\$ 1,224,361	\$	-	\$ 1,224,361
2043	\$ 171,472	\$ 3,257,173	\$ 3,428,645	\$	33,977	\$ 677,009	9 \$	710,986	\$ 137,49	5 \$ 2,5	80,164	\$ 2,717,659	\$	2,413	\$ 1,052 \$	3,465	\$	2,198,463	\$ 2,635,474	\$	4,833,937	\$ 1,253,831	\$	-	\$ 1,253,831
2044	\$ 139,227	\$ 3,405,356	\$ 3,544,583	\$	27,460	\$ 706,414	4 \$	733,874	\$ 111,76	7 \$ 2,6	98,942	\$ 2,810,709	\$	2,417	\$ 1,135 \$	3,552	\$	2,409,277	\$ 2,756,833	\$	5,166,110	\$ 1,317,107	\$	-	\$ 1,317,107
2045	\$ 102,431	\$ 3,539,462	\$ 3,641,893	\$	19,932	\$ 732,517	7 \$	752,449	\$ 82,49	9 \$ 2,8	06,945	\$ 2,889,444	\$	2,420	\$ 1,244 \$	3,664	\$	2,654,549	\$ 2,867,216	\$	5,521,765	\$ 1,386,334	\$	-	\$ 1,386,334
2046	\$ 67,506	\$ 3,691,601	\$ 3,759,107	\$	13,001	\$ 762,895	5 \$	775,896	\$ 54,50	5 \$ 2,9	28,706	\$ 2,983,211	\$	2,421	\$ 1,359 \$	3,780	\$	2,910,895	\$ 2,991,652	\$	5,902,547	\$ 1,442,445	\$	-	\$ 1,442,445
2047	\$ 48,593	\$ 3,832,908	\$ 3,881,501	\$	9,264	\$ 792,184	4 \$	801,448	\$ 39,32	9 \$ 3,0	40,724	\$ 3,080,053	\$	2,421	\$ 1,454 \$	3,875	\$	3,204,245	\$ 3,106,121	\$	6,310,366	\$ 1,528,189	\$	-	\$ 1,528,189
2048	\$ 30,620	\$ 3,968,217	\$ 3,998,837	\$	5,704	\$ 820,111	1 \$	825,815	\$ 24,91	6 \$ 3,1	48,106	\$ 3,173,022	\$	2,419	\$ 1,553 \$	3,972	\$	3,531,169	\$ 3,215,860	\$	6,747,029	\$ 1,565,115	\$	-	\$ 1,565,115
2049	\$ 16,330	\$ 4,121,157	\$ 4,137,487	\$	2,922	\$ 851,598	3 \$	854,520	\$ 13,40	8 \$ 3,2	69,559	\$ 3,282,967	\$	2,416	\$ 1,681 \$	4,097	\$	3,874,554	\$ 3,339,995	\$	7,214,549	\$ 1,602,964	\$	-	\$ 1,602,964
2050	\$ 9,659	\$ 4,272,924	\$ 4,282,583	\$	1,677	\$ 883,526	5 \$	885,203	\$ 7,982	2 \$ 3,3	89,398	\$ 3,397,380	\$	2,411	\$ 1,788 \$	4,199	\$	4,252,773	\$ 3,462,461	\$	7,715,234	\$ 2,226,689	\$	-	\$ 2,226,689
2051	\$ 5,464	\$ 4,419,892	\$ 4,425,356	\$	925	\$ 914,470	\$	915,395	\$ 4,539	9 \$ 3,5	05,422	\$ 3,509,961	\$	2,404	\$ 1,900 \$	4,304	\$	4,670,275	\$ 3,581,037	\$	8,251,312	\$ 2,280,962	\$	-	\$ 2,280,962
2052	\$ 3,121	\$ 4,572,916	\$ 4,576,037	\$	514	\$ 946,483	3 \$	946,997	\$ 2,60	7 \$ 3,6	26,433	\$ 3,629,040	\$	2,396	\$ 2,044 \$	4,440	\$	5,120,590	\$ 3,704,737	\$	8,825,327	\$ 2,534,990	\$	-	\$ 2,534,990
2053	\$ 1,703	\$ 4,732,857	\$ 4,734,560	\$	274	\$ 979,669	9 \$	979,943	\$ 1,429	9 \$ 3,7	53,188	\$ 3,754,617	\$	2,386	\$ 2,165 \$	4,551	\$	5,605,641	\$ 3,834,278	\$	9,439,919	\$ 2,929,535	\$	-	\$ 2,929,535
2054	\$ 892	\$ 4,898,034	\$ 4,898,926	\$	138	\$ 1,013,989	9 \$	1,014,127	\$ 75	4 \$ 3,8	84,045	\$ 3,884,799	\$	2,374	\$ 2,291 \$	4,665	\$	6,129,822	\$ 3,968,013	\$ 1	0,097,835	\$ 5,785,211	\$	-	\$ 5,785,211
2055	\$ 354	\$ 5,068,456	\$ 5,068,810	\$	54	\$ 1,049,292	2 \$	1,049,346	\$ 30	0 \$ 4,0	19,164	\$ 4,019,464	\$	2,360	\$ 2,452 \$	4,812	\$	6,696,040	\$ 4,106,135	\$ 1	0,802,175	\$ 5,930,816	\$	-	\$ 5,930,816
2056	\$ 195	\$ 5,242,268	\$ 5,242,463	\$	29	\$ 1,085,403	3 \$	1,085,432	\$ 16	6 \$ 4,1	56,865	\$ 4,157,031	\$	2,343	\$ 2,589 \$	4,932	\$	7,309,303	\$ 4,246,868	\$ 1	1,556,171	\$ 6,645,827	\$	-	\$ 6,645,827
2057	\$ 97	\$ 5,422,530	\$ 5,422,627	\$	14	\$ 1,123,016	5 \$	1,123,030	\$ 8	3 \$ 4,2	99,514	\$ 4,299,597	\$	2,324	\$ 2,731 \$	5,055	\$	7,970,548	\$ 4,392,659	\$ 1	2,363,207	\$ 7,652,450	\$	-	\$ 7,652,450
2058	\$ -	\$ 5,603,980	\$ 5,603,980	\$	-	\$ 1,161,079	9 \$	1,161,079	\$ -	\$ 4,4	42,901	\$ 4,442,901	\$	2,303	\$ 2,911 \$	5,214	\$	8,687,819	\$ 4,539,241	\$ 1	3,227,060	\$ 8,235,286	\$	-	\$ 8,235,286
2059	\$ -	\$ 5,793,854	\$ 5,793,854	\$	-	\$ 1,200,907	7 \$	1,200,907	\$ -	\$ 4,5	92,947	\$ 4,592,947	\$	2,279	\$ 3,065 \$	5,344	\$	9,459,096	\$ 4,692,597	\$ 1	4,151,693	\$ 1,725,183	\$	-	\$ 1,725,183
2060	\$ -	\$ 5,996,624	\$ 5,996,624	\$	-	\$ 1,243,023	3 \$	1,243,023	\$ -	\$ 4,7	53,601	\$ 4,753,601	\$	2,253	\$ 3,225 \$	5,478	\$	2,253	\$ 4,856,789	\$	4,859,042	\$ -	\$	-	\$ -
2061	\$ -	\$ 6,207,487	\$ 6,207,487	\$	-	\$ 1,286,732	2 \$	1,286,732	\$ -	\$ 4,9	20,755	\$ 4,920,755	\$	2,224	\$ 3,426 \$	5,650	\$	2,223	\$ 5,027,659	\$	5,029,882	\$ -	\$	-	\$ -
2062	\$ -	\$ 6 432 067	\$ 6,432,067	\$	_	\$ 1,332,851	1 \$	1.332.851	\$ -	\$ 5.0	99 216	\$ 5,099,216	\$	2,192	\$ 3,599 \$	5,791	\$	2 192	\$ 5,210,046	\$	5 212 238	\$ -	\$	_	\$ -

for the June 30, 2022 Measurement Date

Projection of Pension Plan's Fiduciary Net Position



		Actua	rial Accrued Liability (BO)	7)	Closed Group Asset Projection											
Fiscal Year	Current Me	embers	Future Members	Total	Fiduciary Net Position (BOY)	Funded Ratio (BOY)		Projected EEC Contributions (MOY)	Pro	ojected ER Contrib + Premium Tax (MOY)	Projected BP (MOY)	Projected Admin Expenses (MOY)	Projected Investment Earnings			
2022	\$ 7	2,930,845	- \$	72,930,845	\$ 19,707,129	27.02%	\$	427,163	\$	1,945,569 \$	2,851,777	2,252	\$ (2,967,547)			
2023	\$ 7	4,977,978	- \$	74,977,978	\$ 16,258,285	21.68%	\$	376,736	\$	1,854,464 \$	2,954,034	2,191	\$ 675,731			
2024	\$ 7	6,888,602	142,073 \$	77,030,675	\$ 16,208,991	21.08%	\$	342,181	\$	1,813,777 \$	3,111,181	2,177	\$ 668,749			
2025	\$ 7	8,567,956	\$ 457,195 \$	79,025,151	\$ 15,920,340	20.26%	\$	313,508	\$	1,791,212 \$	3,257,888	2,179	\$ 652,319			
2026	\$ 8	0,045,868	967,397 \$	81,013,265	\$ 15,417,313	19.26%	\$	289,462	\$	1,791,014 \$	3,366,397	2,197	\$ 628,148			
2027	\$ 8	1,369,227	1,633,772 \$	83,002,999	\$ 14,757,343	18.14%	\$	263,992	\$	1,788,685 \$	3,469,539	2,197	\$ 597,346			
2028	\$ 8	2,523,714	2,473,579 \$	84,997,293	\$ 13,935,630	16.89%	\$	242,855	\$	1,804,056 \$	3,563,700	2,214	\$ 560,321			
2029	\$ 8	3,533,793	3,484,103 \$	87,017,896	\$ 12,976,948	15.53%	\$	225,051	\$	1,835,198 \$	3,629,106	2,211	\$ 518,482			
2030	\$ 8	4,441,853	4,660,343 \$	89,102,196	\$ 11,924,362	14.12%	\$	204,792	\$	1,873,598 \$	3,750,709	2,227	\$ 471,572			
2031	\$ 8	5,178,240	5,982,529 \$	91,160,769	\$ 10,721,389	12.59%	\$	185,040	\$	1,900,028 \$	3,837,372	2,262	\$ 418,762			
2032	\$ 8	5,772,043	7,480,946 \$	93,252,989	\$ 9,385,585	10.94%	\$	171,078	\$	1,951,494 \$	3,888,092	2,277	\$ 361,713			
2033	\$ 8	6,276,802	9,149,952 \$	95,426,754	\$ 7,979,500	9.25%	\$	158,630	\$	2,031,438 \$	3,929,302	2,291	\$ 302,506			
2034		6,706,721		97,695,293	\$ 6,540,482	7.54%	\$	144,370		2,134,118 \$	4,005,247					
2035	\$ 8	7,014,993		100,004,141	\$ 5,053,029	5.81%	\$	126,750		2,218,225 \$	4,094,789					
2036		7,164,408		102,308,164	\$ 3,478,806	3.99%	\$	109,172		2,346,485 \$	4,194,750					
2037		7,136,148		104,606,918	\$ 1,848,613	2.12%	\$	90,088		2,468,275 \$	4,309,077					
2038		6,898,672		106,840,546	\$ 137,259	0.16%	\$	73,540		2,561,148 \$	4,382,871					
2039		6,493,332		109,105,725	\$ -	0.00%	\$	63,168		2,726,107 \$	4,407,236					
2040		5,990,050		111,473,462	\$ -	0.00%	\$	56,220		2,872,331 \$	4,403,001					
2041		5,434,879		114,016,390	\$ -	0.00%	\$	49,371		3,041,878 \$	4,406,552					
2042		4,819,049 \$		116,719,391	\$ -	0.00%	\$	42,115		3,236,690 \$	4,407,714					
2043		4,140,271 \$		119,587,634	\$ -	0.00%	\$	34,691		3,452,294 \$	4,407,758					
2044		3,394,544		122,594,933	\$ -	0.00%	\$	28,037		3,726,384 \$	4,403,424					
2045		2,587,933 \$		125,719,232	\$ -	0.00%	\$	20,351		4,040,883 \$	4,414,854	,				
2046		2,567,955 1,697,011		128,880,439	\$ -	0.00%	\$	13,274		4,353,340 \$	4,403,957					
2047				132,110,834	\$ -	0.00%	\$	9,459		4,732,434 \$	4,366,202					
2047		0,742,942 \$ 9,767,157 \$				0.48%		5,824		5,096,284 \$						
				135,450,638			\$				4,328,781					
2049		8,769,372		138,864,887	\$ 1,184,436 \$ 2,461,714	1.50% 3.17%	\$	2,983		5,477,518 \$	4,276,415					
2050				142,397,427	\$ 2,461,714		\$	1,712		6,479,462 \$	4,209,329					
2051		6,785,103		146,082,618	\$ 4,883,494	6.36%	Φ	944		6,951,237 \$	4,135,685					
2052		5,831,512		149,914,025	\$ 7,964,312	10.50%	Ф	525		7,655,580 \$	4,056,696					
2053		4,915,601		153,887,793	\$ 11,975,449	15.99%	Þ	280		8,535,176 \$	3,973,620					
2054		4,044,109		158,012,619	\$ 17,139,736	23.15%	\$	141		11,915,033 \$	3,887,017					
2055		3,223,157		162,299,043	\$ 26,062,731	35.59%	\$		\$	12,626,856 \$	3,797,294					
2056		2,458,363		166,753,452	\$ 36,183,282	49.94%	\$		\$	13,955,130 \$	3,704,319					
2057		1,755,830		171,375,756	\$ 48,185,084	67.15%	\$		\$	15,622,998 \$	3,608,387					
2058		1,121,287		176,172,973		87.88%	\$	-		16,923,105 \$	3,509,588					
2059		0,560,551		181,144,448	\$ 78,847,252	111.74%	\$	-	\$	11,184,279 \$	3,407,807					
2060		0,079,905		186,292,646	\$ 90,135,936	128.62%	\$	-	\$	2,253 \$	3,303,304					
2061	\$ 6	9,685,532	121,954,487 \$	191,640,019	\$ 90,593,944	130.00%	\$	-	\$	2,223 \$	3,196,141	2,224	\$ 3,783,031			
2062	\$ 6	9,383,815	127,817,744 \$	197,201,559	\$ 91,180,833	131.42%	\$	-	\$	2,192 \$	3,086,627	2,192	\$ 3,810,277			

City of Morgantown, West Virginia Policemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements for the June 30, 2022 Measurement Date



Projection of Pension Plan's Fiduciary Net Position

		Calculation of Single Equivalent Rate													
Fiscal Year	"Fund	ded" Portion of BP	"Unfu	nded" Portion of BP	F	PV of "Funded" BP	PV	of "Unfunded" BP		PV of BP Using a Single DR					
2022	\$	2,851,777	\$	<u>-</u>	\$	2,793,042	\$	<u> </u>	\$	2,796,071					
2023	\$	2,954,034	\$	-	\$	2,775,245	\$	-	\$	2,784,284					
2024	\$	3,111,181	\$	-	\$	2,803,723	\$	-	\$	2,818,958					
2025	\$	3,257,888	\$	-	\$	2,816,242	\$	-	\$	2,837,690					
2026	\$	3,366,397	\$	-	\$	2,791,406	\$	-	\$	2,818,769					
2027	\$	3,469,539	\$	-	\$	2,759,646	\$	-	\$	2,792,745					
2028	\$	3,563,700	\$	-	\$	2,718,984	\$	-	\$	2,757,566					
2029	\$	3,629,106	\$	_	\$	2,656,007	\$	_	\$	2,699,540					
2030	\$	3,750,709	\$	_	\$	2,633,097	\$	_	\$	2,682,062					
2031	\$	3,837,372	\$	_	\$	2,584,112	\$	_	\$	2,637,878					
2032	\$	3,888,092	\$	_	\$	2,511,527	\$	_	\$	2,569,347					
2033	\$	3,929,302	\$	_	\$	2,434,673	\$	_	\$	2,496,129					
2034	\$	4,005,247	\$	_	\$	2,380,557	\$	_	\$	2,445,942					
2035	\$	4,094,789	\$	_	\$	2,334,558	\$	_	\$	2,403,885					
2036	\$	-	\$	4,194,750	\$	-	\$	2,480,398	\$	2,367,302					
2037	\$	-	\$	4,309,077	\$	-	\$	2,457,326	\$	2,337,745					
2038	\$	-	\$	4,382,871	\$	-	\$	2,410,462	\$	2,285,794					
2039	\$	-	\$	4,407,236	\$	-	\$	2,337,604	\$	2,209,581					
2040	\$	-	\$	4,403,001	\$	-	\$	2,252,250	\$	2,122,061					
2041	\$	-	\$	4,406,552	\$	-	\$	2,173,851	\$	2,041,612					
2042	\$	-	\$	4,407,714	\$	-	\$	2,097,044	\$	1,963,148					
2043	\$	-	\$	4,407,758	\$	-	\$	2,022,437	\$	1,887,221					
2044	\$	-	\$	4,403,424	\$	-	\$	1,948,547	\$	1,812,429					
2045	\$	-	\$	4,414,854	\$	-	\$	1,884,082	\$	1,746,836					
2046	\$	-	\$	4,403,957	\$	-	\$	1,812,549	\$	1,675,113					
2047	\$	-	\$	4,366,202	\$	-	\$	1,733,060	\$	1,596,505					
2048	\$	-	\$	4,328,781	\$	-	\$	1,657,061	\$	1,521,589					
2049	\$	-	\$	4,276,415	\$	-	\$	1,578,759	\$	1,445,031					
2050	\$	-	\$	4,209,329	\$	-	\$	1,498,690	\$	1,367,336					
2051	\$	4,135,685	\$	-	\$	1,211,445	\$	-	\$	1,291,443					
2052	\$	4,056,696	\$	-	\$	1,139,863	\$	-	\$	1,217,771					
2053	\$	3,973,620	\$	-	\$	1,071,002	\$	-	\$	1,146,687					
2054	\$	3,887,017	\$	-	\$	1,004,950	\$	-	\$	1,078,302					
2055	\$	3,797,294	\$	-	\$	941,729	\$	-	\$	1,012,660					
2056	\$	3,704,319	\$	-	\$	881,220	\$	-	\$	949,649					
2057	\$	3,608,387	\$	-	\$	823,404	\$	-	\$	889,269					
2058	\$	3,509,588	\$	-	\$	768,210	\$	-	\$	831,460					
2059	\$	3,407,807	\$	-	\$	715,521	\$	-	\$	776,114					
2060	\$	3,303,304	\$	-	\$	665,304	\$	-	\$	723,210					
2061	\$	3,196,141	\$	-	\$	617,478	\$	-	\$	672,678					
2062	\$	3,086,627	\$	_	\$	572,010	\$	_	\$	624,498					