

GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2023



Submitted by:

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November 10, 2023

Mr. Mark Spickler
Finance Director
City of Martinsburg
125 W. Race Street
Martinsburg, WV 25401

Corporal Paul Lehman
Pension Board Secretary
City of Martinsburg
Policemen's Pension and Relief Fund

Re: City of Martinsburg Policemen's Pension and Relief Fund GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2023

Dear Mark,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Martinsburg Policemen's Pension and Relief Fund to be included in the City's financial statements for FY 2023. The GASB 67 information has been provided as of June 30, 2023 (the GASB 68 measurement date for FY 2023).

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, 2023 (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, 2022 actuarial valuation rolled forward to June 30, 2023. The methods, assumptions, and participant data used are detailed in the July 1, 2022 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, 2023 is contained in the July 1, 2021 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 4.09%. The plan's expected gross rate of investment return of 4.25% has been blended with the 3.86% 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, 2023. 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. Mark Spickler November 10, 2023 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 five 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. Mark Spickler November 10, 2023 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, 2022 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

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Jordan McClane, FSA, EA, FCA, MAAA

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Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date



Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2023, were as follows:

Total pension liability	\$ 49,616,632
Plan fiduciary net position	 (10,107,355)
Employer's net pension liability	\$ 39,509,277
Plan fiduciary net position as a percentage of the total pension liability	20.37%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2022 rolled forward to June 30, 2023 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) 4.05% Single discount rate (EOY) 4.09%

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) 3.69% Long-term municpal bond rate (EOY) 3.86%

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

Year Fund is projected to be fully funded
Year assets are expected to be depleted
2039

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, 2022 actuarial valuation report.

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

		Current	
	1% Decrease 3.09%	Discount Rate 4.09%	1% Increase 5.09%
Employer's net pension liability	\$ 48,219,190	\$ 39,509,277	\$ 32,655,121

City of Martinsburg, West Virginia Policemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements

for the June 30, 2023 Measurement Date



Changes in the Net Pension Liability

			ncrea	se (Decrease	•)	
	To	otal Pension Liability (a)	Pla	n Fiduciary et Position (b)		Net Pension Liability (a) - (b)
Balances at 6/30/22	\$	48,111,855	\$	9,773,740	\$	38,338,115
Changes for the year:						
Service cost		1,534,632				1,534,632
Interest		1,912,967				1,912,967
Changes of benefit terms		-				-
Differences between expected and actual experience		122,434				122,434
Changes of assumptions		(309,048)				(309,048)
Contributions - employer (including Premium Tax Allocation)				1,327,539		(1,327,539)
Contributions - member				308,368		(308,368)
Net investment income*				456,416		(456,416)
Benefit payments, including refunds of member contributions		(1,756,208)		(1,756,208)		-
Administrative expense				(2,500)		2,500
Other				-		-
Net Changes		1,504,777		333,615		1,171,162
Balances at 6/30/23	\$	49,616,632	\$	10,107,355	\$	39,509,277
Return on Investments				4.7%		

^{*}The Plan Fiduciary Net Position as of July 1, 2022 provided to Bolton by the City does not match the Plan Fiduciary Net Position as of June 30, 2022 as provided in the prior GASB report. The difference of \$17,285 has been excluded from investment income for the measurement period ending June 30, 2023.





Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2023

Note	Description	Amount
Α	Service cost	\$ 1,534,632
В	Interest on the total pension liability	1,912,967
Α	Changes of benefit terms	-
С	Differences between expected and actual experience	309,706
С	Changes of assumptions	(1,722,694)
Α	Employee contributions	(308,368)
D	Projected earnings on pension plan investments	(412,775)
С	Differences between expected and actual earnings on plan investments	90,186
Α	Pension plan administrative expense	2,500
Α	Other changes in fiduciary net position	-
	Total Pension Expense	\$ 1,406,154

Notes:

A Provided in the Changes in Net Pension Liability exhibit.

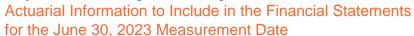
B Based on the following calculation:

	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Projected Earnings (a) x (b) x (c)
Beginning total pension liability	\$ 48,111,855	100%	4.05%	\$ 1,948,530
Service cost (End of Year)	1,534,632	0%	4.05%	-
Benefit payments, including refunds of employee contributions	(1,756,208)	50%	4.05%	(35,563)
Total interest on the total pension liability				\$ 1,912,967

C Provided in the Schedules of Deferrals.

D Based on the following calculation:

	F	Amount for	Portion of	Projected	rojected
		Period (a)	Period (b)	Rate of Return (c)	arnings x (b) x (c)
Beginning plan fiduciary net position	\$	9,773,740	100%	4.25%	\$ 415,384
Employer contributions		1,327,539	50%	4.25%	28,210
Employee contributions		308,368	50%	4.25%	6,553
Benefit payments, including refunds of employee contributions		(1,756,208)	50%	4.25%	(37,319)
Administrative expense and other		(2,500)	50%	4.25%	(53)
Total Projected Earnings					\$ 412,775





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

At June 30, 2023, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	red Outflows Resources	erred Inflows Resources
Differences between expected and actual experience	\$ 1,198,073	\$ 436,802
Changes of assumptions	1,091,402	4,230,664
Net difference between projected and actual earnings	641,874	
on pension plan investments		-
Total	\$ 2,931,349	\$ 4,667,466

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:	
2024	\$ (958,962)
2025	(1,108,428)
2026	340,002
2027	(8,729)
2028	-
Thereafter	-

Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date

B

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

Total pension liability		2023		2022		2021		2020		2019		2018		2017		2016		2015		2014
Service cost	\$	1,534,632	\$	1,645,924	\$	1,870,191	\$	1,819,683	\$	1,758,585	\$	1,675,674	\$	1,898,374	\$	1,201,064	\$	1,117,074	\$	992,237
Interest		1,912,967		1,652,482		1,729,602		1,739,035		1,660,158		1,607,500		1,447,198		1,485,142		1,443,177		1,451,417
Changes of benefit terms		-		-		-		-		-		-		-		-		-		-
Differences between expected and actual experience		122,434		2,073,781		(671,278)		(501,719)		416,152		(425,421)		(563,097)		162,741		(606,090)		-
Changes of assumptions		(309,048)		(5,670,650)		(2,906,093)		2,949,541		649,336		(451,376)		(4,799,012)		10,437,630		1,287,932		1,133,520
Benefit payments, including refunds of member contributions		(1,756,208)		(1,541,405)		(1,584,323)		(1,487,710)		(1,355,473)		(1,365,055)		(1,369,658)		(1,325,710)		(1,127,250)		(1,115,431
Net change in total pension liability		1,504,777		(1,839,868)		(1,561,901)		4,518,830		3,128,758		1,041,322		(3,386,195)		11,960,867		2,114,843		2,461,743
Total pension liability - beginning		48,111,855		49,951,723		51,513,624		46,994,794		43,866,036		42,824,714		46,210,909		34,250,042		32,135,199		29,673,456
Total pension liability - ending (a)	\$	49,616,632	\$	48,111,855	\$	49,951,723	\$	51,513,624	\$	46,994,794	\$	43,866,036	\$	42,824,714	\$	46,210,909	\$	34,250,042	\$	32,135,199
Plan fiduciary net position		2023		2022		2021		2020		2019		2018		2017		2016		2015		2014
Contributions - employer (including Premium Tax Allocation)	s	1,327,539	\$	1,289,752	\$	1,277,706	\$	1,220,164	\$	1,137,192	\$	1,087,981	\$	1,058,896	\$	1,021,021	\$	1,042,081	\$	968.837
Contributions - member	•	308,368	Ψ.	284,314	Ψ	250,527	Ψ	239,236	Ÿ	240,725	Ψ.	225,734	Ψ	219,978	Ψ	222,731	Ψ.	229,110	Ψ	212.040
Net investment income		456,416		(1.498.492)		1.641.915		540.663		531,442		312,293		565,680		161.081		44,150		643,125
Benefit payments, including refunds of member contributions		(1,756,208)		(1,541,405)		(1,584,323)		(1,487,710)		(1,355,473)		(1,365,055)		(1,369,658)		(1,325,710)		(1,127,250)		(1,115,431
Administrative expense		(2,500)		(2,500)		(2,500)		(2,500)		(2,500)		(2,500)		(5,000)		-		(2,523)		(2,500)
Other		-		-		-		-		-		-		-		-		-		-
Net change in plan fiduciary net position	\$	333,615	\$	(1,468,331)	\$	1,583,325	\$	509,853	\$	551,386	\$	258,453	\$	469,896	\$	79,123	\$	185,568	\$	706,071
Plan fiduciary net position - beginning		9,773,740		11,242,071		9,658,746		9,148,893		8,597,507		8,339,054		7,869,158		7,791,543		7,605,975		6,899,904
Plan fiduciary net position - ending (b)	\$	10,107,355	\$	9,773,740	\$	11,242,071	\$	9,658,746	\$	9,148,893	\$	8,597,507	\$	8,339,054	\$	7,870,666	\$	7,791,543	\$	7,605,975
Employer's net pension liability - ending (a)-(b)	\$	39,509,277	\$	38,338,115	\$	38,709,652	\$	41,854,878	\$	37,845,901	\$	35,268,529	\$	34,485,660	\$	38,340,243	\$	26,458,499	\$	24,529,224
Plan fiduciary net position as a percentage of the total pension liability		20.37%		20.31%		22.51%		18.75%		19.47%		19.60%		19.47%		17.03%		22.75%		23.67%
Covered payroll	\$	3,268,149	\$	2,898,765	\$	2,689,434	\$	2,915,347	\$	2,798,681	\$	2,643,190	\$	2,543,082	\$	2,592,596	\$	2,613,097	\$	2,435,214
Employer's net pension liability as a percentage of covered payroll		1208.92%		1322.57%		1439.32%		1435.67%		1352.28%		1334.32%		1356.06%		1478.84%		1012.53%		1007.27%
Expected average remaining service years of all participants		4.00		4.00		5.00		6.00		6.00		6.01		6.22		6.57		6.36		N/A

Notes to Schedule:

Benefit changes: There were no changes for FY2023.

Changes of assumptions: The discount rate changed from 4.05% to 4.09%.

^{*}The Plan Fiduciary Net Position as of July 1, 2022 provided to Bolton by the City does not match the Plan Fiduciary Net Position as of June 30, 2022 as provided in the prior GASB report. The difference of \$17,285 has been excluded from investment income for the measurement period ending June 30, 2023.

^{*}The Plan Fiduciary Net Position as of June 30, 2021 provided to Bolton by the City was adjusted to remove the payables for non-vested terminated members who did not request a refund of contributions. The liability associated with those refunds is instead included in the Total Pension Liability as of June 30, 2021.

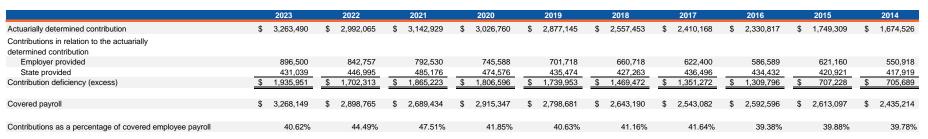
^{*}Market value of assets as of July 1, 2016, excludes \$1,508, included in the market value of assets as of June 30, 2016, used for the actuarial valuation report for the fiscal year end June 30, 2016.

Actuarial Information to Include in the Financial Statements

for the June 30, 2023 Measurement Date

Schedule of Employer Contributions

Last 10 Fiscal Years



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 7/1/2021 actuarial valuation to calculate the FY2023 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 27.5 years
Asset valuation method 4-year smoothed market

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, 2023 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	betw and A on I	offerences een Projected actual Earnings Pension Plan avestments	Recognition Period (Years)	2019	2020	2021	J	2022	•	on of Differenc	2024	2025	 2026	2027
2019	\$	(144,105)	5	\$ (28,821)	(28,821)	(28,821)		(28,821)		(28,821)				
2020		(129,655)	5		\$ (25,931)	(25,931)		(25,931)		(25,931)	(25,931)			
2021		(1,208,589)	5			\$ (241,718)		(241,718)		(241,718)	(241,718)	(241,717)		
2022		1,976,921	5				\$	395,384		395,384	395,384	395,384	395,385	
2023		(43,641)	5						\$	(8,728)	(8,728)	(8,728)	(8,728)	(8,729)
Net increa	se (dec	rease) in pension	expense						\$	90,186	\$ 119,007	\$ 144,939	\$ 386,657	\$ (8,729)

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

				Balan June 3	
Year	ment Earnings than Projected (a)	nvestment Earnings reater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2019	\$ -	\$ 144,105	\$ 144,105	\$ -	\$ -
2020	-	129,655	103,724	-	25,931
2021	-	1,208,589	725,154	-	483,435
2022	1,976,921	-	790,768	1,186,153	-
2023	-	43,641	8,728	-	34,913
				\$ 1,186,153	\$ 544,279



Schedule of Differences between Expected and Actual Experience

In conformity with paragraph 33 a 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.

Year	Differences between Expected and Actual Experience	Recognition Period (Years)	Prior	2014	2	015	2016	Increas	se (Decrease)	in Pen	sion Expens	sing from t 2020	he Recognitio	on o	f Differences	en Expected	Actual Expe	rience 2025	2026	20	27	202	В	Thereafter
Prior	-	-																						
2014	-	-																						
2015	(606,090)	6.357407			\$	(95,336)	(95,336)	(95,336)	(95,336)		(95,336)	(95,336)	(34,074	1)										
2016	162,741	6.573082				\$	24,759	24,759	24,759		24,759	24,759	24,759	9	14,187									
2017	(563,097)	6.222126						\$ (90,499)	(90,499)		(90,499)	(90,499)	(90,499)	9)	(90,499)	(20,103)								
2018	(425,421)	6.014899							\$ (70,728)	1	(70,728)	(70,728)	(70,728)	3)	(70,728)	(70,728)	(1,053)							
2019	416,152	6.000000								\$	69,359	69,359	69,359	9	69,359	69,359	69,357							
2020	(501,719)	6.000000										\$ (83,620)	(83,620)	0)	(83,620)	(83,620)	(83,620)	(83,619)						
2021	(671,278)	5.000000											\$ (134,256)	6)	(134,256)	(134,256)	(134,256)	(134,254)						
2022	2,073,781	4.000000												1	\$ 518,445	518,445	518,445	518,446						
2023	122,434	4.000000														\$ 30,609	30,609	30,609	30,607					
Net increas	e (decrease) in per	nsion expense														\$ 309,706	\$ 399,482	\$ 331,182	\$ 30,607	\$		\$		\$ -

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

						ces at 0, 2023
Year	Experience Losses (a)	Experience Gains (b)		Amounts Recognized in Pension Expense Through June 30, 2023 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$	- \$	-	\$ -	\$ -
2014	-		-	-	-	-
2015	-		606,090	606,090	-	-
2016	162,741		-	162,741	-	-
2017	-		563,097	563,097	-	-
2018			425,421	424,368		1,053
2019	416,152		-	346,795	69,357	-
2020	-		501,719	334,480	-	167,239
2021	-		671,278	402,768	-	268,510
2022	2,073,781		-	1,036,890	1,036,891	-
2023	122,434		-	30,609	91,825	-
					\$ 1,198,073	\$ 436,802

Actuarial Information to Include in the Financial Statements

for the June 30, 2023 Measurement Date

B

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.

		Recognition						Inc	rease (Decrease) in Pension Exp	ense Arising fro	m the Effects of C	Changes of Assum	otions					
Year	Changes of Assumptions	Period (Years)	Prior	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Thereafter
Prior	\$ -	-																	
2014																			
2015	1,287,932	6.357407			\$ 202,588	202,588	202,588	202,588	202,588	202,588	72,404								
2016	10,437,630	6.573082				\$ 1,587,935	1,587,935	1,587,935	1,587,935	1,587,935	1,587,935	910,020							
2017	(4,799,012)	6.222126					\$ (771,282)	(771,282)	(771,282)	(771,282)	(771,282)	(771,282)	(171,320)						
2018	(451,376)	6.014899						\$ (75,043)	(75,043)	(75,043)	(75,043)	(75,043)	(75,043)	(1,118)					
2019	649,336	6.000000							\$ 108,223	108,223	108,223	108,223	108,223	108,221					
2020	2,949,541	6.000000								\$ 491,590	491,590	491,590	491,590	491,590	491,591				
2021	(2,906,093)	5.000000									\$ (581,219)	(581,219)	(581,219)	(581,219)	(581,217)				
2022	(5,670,650)	4.000000										\$ (1,417,663)	(1,417,663)	(1,417,663)	(1,417,661)				
2023	(309,048)	4.000000											\$ (77,262)	(77,262)	(77,262)	(77,262)			
Net increas	e (decrease) in per	nsion expense											\$ (1,722,694)	\$ (1,477,451)	\$ (1,584,549)	\$ (77,262)	\$ -	\$	\$ -

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

					nces at 80, 2023
Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$	- \$ -	\$ -	\$ -
2014				-	
2015	1,287,932		1,287,932	-	
2016	10,437,630		10,437,630	-	-
2017		4,799,012	4,799,012	-	-
2018		451,376	450,258	-	1,118
2019	649,336		541,115	108,221	-
2020	2,949,541		1,966,360	983,181	
2021	-	2,906,093	1,743,657	-	1,162,436
2022	-	5,670,650	2,835,326	-	2,835,324
2023	-	309,048	77,262	-	231,786
				\$ 1,091,402	\$ 4,230,664

City of Martinsburg, West Virginia Policemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements

for the June 30, 2023 Measurement Date

Projection of Pension Plan's Fiduciary Net Position



	G	ost	Emp	loye	e Contribu (BOY)	Employee Contributions (BOY)					r Normal ((BOY)	Cost		penses (MOY)		Emple		Contribu MOY)	tion	5	Premium Tax Allocation (MOY)			on		
Fiscal Year	Current Members	Future Members	Total	Current Members		Future Members		Total		urrent embers		Future embers	Total	urrent embers	uture embers	Total	Current Members		uture embers		Total	Current Members		Future embers		Total
2023	\$ 1,399,495	\$ -	\$ 1,399,495	\$ 308,368	\$	-	\$	308,368	\$ 1	,091,127	\$	-	\$ 1,091,127	\$ 2,500	\$	\$ 2,500	\$ 896,500	\$	-	\$	896,500	\$ 431,03	\$	-	\$	431,039
2024	\$ 1,378,417	\$ 65,970	\$ 1,444,387	\$ 275,758	\$	13,895	\$	289,653	\$ 1	,102,659	\$	52,075	\$ 1,154,734	\$ 2,627	\$ -	\$ 2,627	\$ 825,834	\$	53,170	\$	879,004	\$ 475,330	\$	-	\$	475,330
2025	\$ 1,325,406	\$ 146,357	\$ 1,471,763	\$ 266,201	\$	30,800	\$	297,001	\$ 1	,059,205	\$	115,557	\$ 1,174,762	\$ 2,595	\$ 98	\$ 2,693	\$ 822,449	\$	118,085	\$	940,534	\$ 478,872	2 \$	-	\$	478,872
2026	\$ 1,275,336		\$ 1,518,611	\$ 256,793	\$	51,163	\$	307,956	\$ 1	,018,543	\$	192,112	\$ 1,210,655	\$ 2,560	232	\$ 2,792	\$,		196,384	\$	1,006,371	\$ 502,203	3 \$	-	\$	502,203
2027	\$ 1,230,424	\$ 326,003	\$ 1,556,427	\$ 248,941	\$	68,497	\$	317,438	\$	981,483	\$	257,506	\$ 1,238,989	\$ 2,556	\$ 306	\$ 2,862	\$ 813,590	\$	263,227	\$	1,076,817	\$ 513,999	\$	-	\$	513,999
2028	\$ 1,196,537	\$ 414,267	\$ 1,610,804	\$ 242,883	\$	86,965	\$	329,848	\$	953,654	\$	327,302	\$ 1,280,956	\$ 2,550	\$ 417	\$ 2,967	\$ 817,592	\$	334,602	\$	1,152,194	\$ 526,090	\$	-	\$	526,090
2029	\$ 1,168,398	\$ 501,362	\$ 1,669,760	\$ 238,002	\$	105,141	\$	343,143	\$	930,396	\$	396,221	\$ 1,326,617	\$ 2,542	\$ 499	\$ 3,041	\$ 827,796	\$	405,052	\$	1,232,848	\$ 538,483	3 \$	-	\$	538,483
2030	\$ 1,112,798	\$ 582,090	\$ 1,694,888	\$ 227,887	\$	121,926	\$	349,813	\$	884,911	\$	460,164	\$ 1,345,075	\$ 2,532	\$ 620	\$ 3,152	\$ 848,686	\$	470,461	\$	1,319,147	\$ 555,35	3 \$	-	\$	555,358
2031	\$ 991,286	\$ 703,462	\$ 1,694,748	\$ 204,583	\$	147,282	\$	351,865	\$	786,703	\$	556,180	\$ 1,342,883	\$ 2,558	\$ 709	\$ 3,267	\$ 842,902	\$	568,585	\$	1,411,487	\$ 569,832	2 \$	-	\$	569,832
2032	\$ 870,286	\$ 857,797	\$ 1,728,083	\$ 180,364	\$	179,573	\$	359,937	\$	689,922	\$	678,224	\$ 1,368,146	\$ 2,583	\$ 877	\$ 3,460	\$ 816,928	\$	693,363	\$	1,510,291	\$ 587,260	\$	-	\$	587,260
2033	\$ 785,364	\$ 992,558	\$ 1,777,922	\$ 163,039	\$	207,649	\$	370,688	\$	622,325	\$	784,909	\$ 1,407,234	\$ 2,608	\$ 977	\$ 3,585	\$ 813,619	\$	802,392	\$	1,616,011	\$ 601,140	\$	-	\$	601,140
2034	\$ 718,040	\$ 1,122,850	\$ 1,840,890	\$ 149,578	\$	234,720	\$	384,298	\$	568,462	\$	888,130	\$ 1,456,592	\$ 2,633	\$ 1,081	\$ 3,714	\$ 821,245	\$	907,887	\$	1,729,132	\$ 617,16	7 \$	-	\$	617,167
2035	\$ 655,723	\$ 1,240,087	\$ 1,895,810	\$ 137,247	\$	258,957	\$	396,204	\$	518,476	\$	981,130	\$ 1,499,606	\$ 2,616	\$ 1,231	\$ 3,847	\$ 847,178	\$ 1	,002,993	\$	1,850,171	\$ 635,164	\$	-	\$	635,164
2036	\$ 610,005	\$ 1,367,123	\$ 1,977,128	\$ 127,842	\$	285,204	\$	413,046	\$	482,163	\$ 1	,081,919	\$ 1,564,082	\$ 2,596	\$ 1,347	\$ 3,943	\$ 873,665	\$ 1	,106,018	\$	1,979,683	\$ 652,668	3 \$	-	\$	652,668
2037	\$ 594,781	\$ 1,473,180	\$ 2,067,961	\$ 124,541	\$	306,927	\$	431,468	\$	470,240	\$ 1	,166,253	\$ 1,636,493	\$ 2,617	\$ 1,425	\$ 4,042	\$ 926,058	\$ 1	,192,203	\$	2,118,261	\$ 672,118	3 \$	-	\$	672,118
2038	\$ 583,297	\$ 1,572,311	\$ 2,155,608	\$ 122,305	\$	327,122	\$	449,427	\$	460,992	\$ 1	,245,189	\$ 1,706,181	\$ 2,638	\$ 1,505	\$ 4,143	\$ 993,660	\$ 1	,272,879	\$	2,266,539	\$ 706,630	\$	-	\$	706,630
2039	\$ 545,934	\$ 1,679,178	\$ 2,225,112	\$ 114,644	\$	348,899	\$	463,543	\$	431,290	\$ 1	,330,279	\$ 1,761,569	\$ 2,658	\$ 1,544	\$ 4,202	\$ 1,065,400	\$ 1	,359,797	\$	2,425,197	\$ 723,413	3 \$	-	\$	723,413
2040	\$ 509,999	\$ 1,812,373	\$ 2,322,372	\$ 106,793	\$	376,195	\$	482,988	\$	403,206	\$ 1	,436,178	\$ 1,839,384	\$ 2,677	\$ 1,675	\$ 4,352	\$ 1,126,907	\$ 1	,468,054	\$	2,594,961	\$ 740,61	5 \$	-	\$	740,615
2041	\$ 465,411	\$ 1,929,070	\$ 2,394,481	\$ 97,923	\$	399,884	\$	497,807	\$	367,488	\$ 1	,529,186	\$ 1,896,674	\$ 2,696	\$ 1,765	\$ 4,461	\$ 1,213,500	\$ 1	,563,108	\$	2,776,608	\$ 758,24	3 \$	-	\$	758,248
2042	\$ 331,498	\$ 2,076,043	\$ 2,407,541	\$ 73,534	\$	429,929	\$	503,463	\$	257,964	\$ 1	,646,114	\$ 1,904,078	\$ 2,714	\$ 1,859	\$ 4,573	\$ 1,288,382	\$ 1	,682,589	\$	2,970,971	\$ 794,084	\$	-	\$	794,084
2043	\$ 259,908	\$ 2,250,620	\$ 2,510,528	\$ 59,878	\$	465,739	\$	525,617	\$	200,030	\$ 1	,784,881	\$ 1,984,911	\$ 2,731	\$ 2,005	\$ 4,736	\$ 1,354,519	\$ 1	,824,420	\$	3,178,939	\$ 816,21	\$	-	\$	816,211
2044	\$ 204,416	\$ 2,402,796	\$ 2,607,212	\$ 48,903	\$	497,108	\$	546,011	\$	155,513	\$ 1	,905,688	\$ 2,061,201	\$ 2,747	\$ 2,107	\$ 4,854	\$ 1,453,595	\$ 1	,947,870	\$	3,401,465	\$ 848,32	5 \$	-	\$	848,325
2045	\$ 179,877	\$ 2,529,779	\$ 2,709,656	\$ 44,156	\$	523,662	\$	567,818	\$	135,721	\$ 2	2,006,117	\$ 2,141,838	\$ 2,709	\$ 2,266	\$ 4,975	\$ 1,588,999	\$ 2	,050,569	\$	3,639,568	\$ 868,590	\$	-	\$	868,590
2046	\$ 152,607	\$ 2,645,188	\$ 2,797,795	\$ 38,475	\$	548,112	\$	586,587	\$	114,132	\$ 2	2,097,076	\$ 2,211,208	\$ 2,722	\$ 2,377	\$ 5,099	\$ 1,750,786	\$ 2	,143,552	\$	3,894,338	\$ 909,439	\$	-	\$	909,439
2047	\$ 121,876	\$ 2,773,647	\$ 2,895,523	\$ 31,472	\$	575,506	\$	606,978	\$	90,404	\$ 2	2,198,141	\$ 2,288,545	\$ 2,790	\$ 2,436	\$ 5,226	\$ 1,920,141	\$ 2	,246,801	\$	4,166,942	\$ 931,24	\$	-	\$	931,245
2048	\$ 94,890	\$ 2,892,585	\$ 2,987,475	\$ 24,891	\$	601,041	\$	625,932	\$	69,999	\$ 2	2,291,544	\$ 2,361,543	\$ 2,745	\$ 2,667	\$ 5,412	\$ 2,116,228	\$ 2	,342,400	\$	4,458,628	\$ 953,59	\$	-	\$	953,597
2049	\$ 71,110	\$ 3,019,146	\$ 3,090,256	\$ 18,963	\$	628,189	\$	647,152	\$	52,147	\$ 2	2,390,957	\$ 2,443,104	\$ 2,755	\$ 2,792	\$ 5,547	\$ 2,326,704	\$ 2	,444,028	\$	4,770,732	\$ 999,73	3 \$	-	\$	999,738
2050	\$ 49,180	\$ 3,145,223	\$ 3,194,403	\$ 13,405	\$	655,184	\$	668,589	\$	35,775	\$ 2	2,490,039	\$ 2,525,814	\$ 2,824	\$ 2,862	\$ 5,686	\$ 2,559,419	\$ 2	,545,264	\$	5,104,683	\$ 1,069,450	\$	-	\$	1,069,450
2051	\$ 31,048	\$ 3,274,424	\$ 3,305,472	\$ 8,690	\$	682,973	\$	691,663	\$	22,358	\$ 2	2,591,451	\$ 2,613,809	\$ 2,771	\$ 3,057	\$ 5,828	\$ 2,813,008	\$ 2	,649,003	\$	5,462,011	\$ 1,095,150	\$	-	\$	1,095,150
2052	\$ 19,628	\$ 3,387,350	\$ 3,406,978	\$ 5,572	\$	707,648	\$	713,220	\$	14,056	\$ 2	2,679,702	\$ 2,693,758	\$ 2,777	\$ 3,197	\$ 5,974	\$ 3,105,102	\$ 2	,739,250	\$	5,844,352	\$ 1,121,49	2 \$	-	\$	1,121,492
2053	\$ 10,479	\$ 3,506,905	\$ 3,517,384	\$ 2,942	\$	733,689	\$	736,631	\$	7,537	\$ 2	2,773,216	\$ 2,780,753	\$ 2,782	\$ 3,404	\$ 6,186	\$ 3,418,519	\$ 2	,834,938	\$	6,253,457	\$ 1,181,80	\$	-	\$	1,181,805
2054	\$ 6,202	\$ 3,628,203	\$ 3,634,405	\$ 1,746	\$	759,903	\$	761,649	\$	4,456	\$ 2	2,868,300	\$ 2,872,756	\$ 2,785	\$ 3,556	\$ 6,341	\$ 3,759,026	\$ 2	,932,173	\$	6,691,199	\$ 3,714,530	\$	-	\$	3,714,530
2055	\$ 3,614	\$ 3,750,934	\$ 3,754,548	\$ 1,022	\$	786,326	\$	787,348	\$	2,592	\$ 2	2,964,608	\$ 2,967,200	\$ 2,719	\$ 3,781	\$ 6,500	\$ 4,128,852	\$ 3	,030,731	\$	7,159,583	\$ 3,806,574	\$	-	\$	3,806,574
2056	\$ 1,959	\$ 3,874,327	\$ 3,876,286	\$ 561	\$	812,789	\$	813,350	\$	1,398	\$ 3	3,061,538	\$ 3,062,936	\$ 2,717	\$ 4,013	\$ 6,730	\$ 4,530,822	\$ 3	,129,932	\$	7,660,754	\$ 4,060,054	\$	-	\$	4,060,054
2057	\$ 1,075	\$ 4,010,069	\$ 4,011,144	\$ 308	\$	841,568	\$	841,876	\$	767	\$ 3	3,168,501	\$ 3,169,268	\$ 2,714	\$ 4,184	\$ 6,898	\$ 4,957,692	\$ 3	,239,315	\$	8,197,007	\$ 5,190,930	\$	-	\$	5,190,930
2058	\$ 521	\$ 4,154,448	\$ 4,154,969	\$ 151	\$	871,884	\$	872,035	\$	370	\$ 3	3,282,564	\$ 3,282,934	\$ 2,709	\$ 4,361	\$ 7,070	\$ 5,414,843	\$ 3	,355,954	\$	8,770,797	\$ 5,584,336	\$	-	\$	5,584,336
2059	\$ 263	\$ 4,303,661	\$ 4,303,924	\$ 77	\$	902,934	\$	903,011	\$	186	\$ 3	3,400,727	\$ 3,400,913	\$ 2,702	\$ 4,545	\$ 7,247	\$ 5,907,967	\$ 3	,476,786	\$	9,384,753	\$ 5,723,39	5 \$	-	\$	5,723,395
2060	\$ 80	\$ 4,451,813	\$ 4,451,893	\$ 26	\$	933,604	\$	933,630	\$	54	\$ 3	3,518,209	\$ 3,518,263	\$ 2,693	\$ 4,735	\$ 7,428	\$ 6,444,758	\$ 3	,596,928	\$	10,041,686	\$ 5,229,50	3 \$	-	\$	5,229,508
2061	\$ 50	\$ 4,613,184	\$ 4,613,234	\$ 16	\$	966,878	\$	966,894	\$	34	\$ 3	3,646,306	\$ 3,646,340	\$ 2,681	\$ 5,009	\$ 7,690	\$ 2,715	\$ 3	,727,993	\$	3,730,708	\$ -	\$	-	\$	-
2062	\$ -	\$ 4,777,987	\$ 4,777,987	\$ -	\$	1,000,894	\$ 1	,000,894	\$	-	\$ 3	3,777,093	\$ 3,777,093	\$ 2,586	\$ 5,296	\$ 7,882	\$ 2,586	\$ 3	,861,817	\$	3,864,403	\$ -	\$	-	\$	-
2063	\$ -	\$ 4,943,708	\$ 4,943,708	\$ -	\$	1,035,407	\$ 1	,035,407	\$	-	\$ 3	3,908,301	\$ 3,908,301	\$ 2,568	\$ 5,511	\$ 8,079	\$ 2,569	\$ 3	,995,999	\$	3,998,568	\$ -	\$	-	\$	-

City of Martinsburg, West Virginia Policemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements

for the June 30, 2023 Measurement Date

Projection of Pension Plan's Fiduciary Net Position



		Actu	uaria	I Accrued Liability (BC	OY)		Closed Group Asset Projection												
Fiscal Year	Cu	rrent Members		Future Members		Total	Fic	luciary Net Position (BOY)	Funded Ratio (BOY)		Projected EEC Contributions (MOY)	Pr	rojected ER Contrib + Premium Tax (MOY)	Projected BP (MOY)	Projected Admin Expenses (MOY)	Projected Investment Earnings			
2023	\$	46,756,903	\$	- ;	\$	46,756,903	\$	9,773,740	20.90%	\$	308,368	\$	1,327,539 \$	1,756,208	\$ 2,500	\$ 473,70			
2024	\$	48,409,906	\$	- :	\$	48,409,906	\$	10,124,640	20.91%	\$	281,557	\$	1,301,164 \$	1,711,451	\$ 2,627	\$ 427,535			
2025	\$	50,156,886	\$	68,069	\$	50,224,955	\$	10,420,818	20.78%	\$	271,799	\$	1,301,321 \$	1,791,423	\$ 2,595	\$ 438,240			
2026	\$	51,841,195	\$	220,768	\$	52,061,963	\$	10,638,160	20.52%	\$	262,193	\$	1,312,190 \$	1,868,505	\$ 2,560	\$ 445,883			
2027	\$	53,466,186	\$	477,288	\$	53,943,474	\$	10,787,361	20.18%	\$	254,176	\$	1,327,589 \$	1,932,502	\$ 2,556	\$ 451,033			
2028	\$	55,048,076	\$	825,819	\$	55,873,895	\$	10,885,101	19.77%	\$	247,991	\$	1,343,682 \$	1,982,983	\$ 2,550	\$ 454,334			
2029	\$	56,610,326	\$	1,275,043	\$	57,885,369	\$	10,945,575	19.33%	\$	243,007	\$	1,366,279 \$	2,053,980	\$ 2,542	\$ 455,782			
2030	\$	58,137,147	\$	1,827,388	\$	59,964,535	\$	10,954,121	18.84%	\$	232,679	\$	1,404,044 \$	2,216,912	\$ 2,532	\$ 453,296			
2031	\$	59,504,536	\$	2,479,403	\$	61,983,939	\$	10,824,696	18.19%	\$	208,885	\$	1,412,734 \$	2,467,366	\$ 2,558	\$ 442,211			
2032	\$	60,547,642	\$	3,276,307	\$	63,823,949	\$	10,418,602	17.21%	\$	184,157	\$	1,404,188 \$	2,712,173	\$ 2,583	\$ 419,103			
2033	\$	61,258,983	\$	4,256,163	\$	65,515,146	\$	9,711,294	15.85%	\$	166,468	\$	1,414,759 \$	2,879,582	\$ 2,608	\$ 385,372			
2034	\$	61,741,095	\$	5,405,070	\$	67,146,165	\$	8,795,703	14.25%	\$	152,723	\$	1,438,412 \$	2,997,243	\$ 2,633	\$ 344,193			
2035	\$	62,053,377	\$	6,724,018	\$	68,777,395	\$	7,731,155	12.46%	\$	140,133	\$	1,482,342 \$	3,119,819	\$ 2,616	\$ 297,032			
2036	\$	62,188,811	\$	8,205,312	\$	70,394,123	\$	6,528,227	10.50%	\$	130,530	\$	1,526,333 \$	3,198,185	\$ 2,596	\$ 244,983			
2037	\$	62,202,326	\$	9,864,669	\$	72,066,995	\$	5,229,292	8.41%	\$	127,160	\$	1,598,176 \$	3,227,378	\$ 2,617	\$ 190,604			
2038	\$	62,170,738	\$	11,686,484	\$	73,857,222	\$	3,915,237	6.30%	\$	124,877	\$	1,700,290 \$	3,239,377	\$ 2,638	\$ 136,603			
2039	\$	62,113,584	\$	13,670,535	\$	75.784.119	\$	2,634,992	4.24%	\$	117,055	\$	1,788,813 \$	3,306,154	\$ 2,658	\$ 82,485			
2040	\$	61,946,869		15,830,844		77,777,713	\$	1,314,533	2.12%	\$	109,039			3,356,313					
2041	\$	61,684,392		18,201,214		79,885,606	\$		0.00%	\$	99,982			3,411,075					
2042	\$	61,308,363		20,771,906		82,080,269	\$	-	0.00%	\$	75,080			3,550,508					
2043	\$	60,634,384		23,581,422		84,215,806	\$	_	0.00%	\$	61,137			3,628,994					
2044	\$	59.776.992		26,666,756		86.443.748	\$		0.00%	\$	49,931			3,680,702					
2045	\$	58,772,515		30,002,970		88,775,485	\$	_	0.00%	\$	45,085			3,685,399		•			
2046	\$	57,694,970		33,553,235		91,248,205	\$		0.00%	\$	39,284			3,703,888					
2047	\$	56.524.322		37,299,788		93.824.110	\$		0.00%	\$	32,134			3,727,158					
2048	\$	55,248,125		41,253,724		96,501,849	\$		0.00%	\$	25,414			3,746,787					
2049	\$	53,869,515		45,394,869		99,264,384	\$		0.00%	\$	19,362			3,749,950					
2050	\$	52,404,294		49,723,368		102,127,662	\$	_	0.00%	\$	13,687			3,754,102					
2051	\$	50,849,700		54,237,157		105,086,857	\$	-	0.00%	\$	8,873			3,736,514					
2052	\$ \$	49,228,091		58,936,895		108,164,986	\$	181,484	0.37%	\$	5,689			3,711,608					
2052	\$ \$	47,551,088		63,780,128		111,331,216	\$	717,985	1.51%	\$	3,009			3,671,520					
2053	\$	45,834,206		68,754,051		114,588,257	\$	1,697,063	3.70%	\$	1,783		, , .	3,617,229					
2054	э \$	45,834,206		73,855,941		117,951,271	\$	5,705,586	12.94%	\$	1,763			3,556,530					
2056	\$ \$	42,341,829		79,079,513		121,421,342	\$	10,417,340	24.60%	\$ \$	573			3,491,395					
2057	-	40,578,584		84,416,356		124,994,940	\$	16,064,605	39.59%		314		-7 -7- +	3,422,213		* '			
2058	\$	38,810,116		89,880,714		128,690,830	\$	23,612,758	60.84%	\$	154			3,350,051					
2059	\$	37,039,590		95,491,670		132,531,260	\$	32,423,673	87.54%	\$		\$		3,274,968					
2060	\$	35,270,210		101,254,393		136,524,603	\$	42,331,121	120.02%	\$	27			3,197,563					
2061	\$	33,504,473		107,154,688		140,659,161	\$	52,782,430	157.54%	\$	16		2,715 \$	3,117,718					
2062	\$	31,745,185		113,207,919		144,953,104	\$	51,842,454	163.31%	\$	-	\$	2,586 \$	3,035,750					
2063	\$	29,994,767	\$	119,423,864	\$	149,418,631	\$	50,946,170	169.85%	\$	-	\$	2,569 \$	2,951,485	\$ 2,568	\$ 2,103,146			

City of Martinsburg, West Virginia Policemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date



Projection of Pension Plan's Fiduciary Net Position

				Calcu	ılati	ion of Single Equivaler	nt Ra	te				
Fiscal Year	"Fun	ded" Portion of BP	"Unfur	nded" Portion of BP		PV of "Funded" BP	PV of "Unfunded" BP			PV of BP Using a Single DR		
2023	\$	1,756,208	\$	-	\$	1,720,038	\$	-	\$	1,721,385		
2024	\$	1,711,451	\$	-	\$	1,607,868	\$	-	\$	1,611,650		
2025	\$	1,791,423	\$	-	\$	1,614,388	\$	-	\$	1,620,72		
2026	\$	1,868,505	\$	-	\$	1,615,206	\$	-	\$	1,624,08		
2027	\$	1,932,502	\$	-	\$	1,602,425	\$	-	\$	1,613,75		
2028	\$	1,982,983	\$	-	\$	1,577,250	\$	-	\$	1,590,89		
2029	\$	2,053,980	\$	-	\$	1,567,118	\$	-	\$	1,583,15		
2030	\$	2,216,912	\$	-	\$	1,622,475	\$	-	\$	1,641,64		
2031	\$	2,467,366	\$	-	\$	1,732,156	\$	-	\$	1,755,37		
2032	\$	2,712,173	\$	-	\$	1,826,395	\$	-	\$	1,853,77		
2033	\$	2,879,582	\$	-	\$	1,860,076	\$	-	\$	1,890,91		
2034	\$	2,997,243	\$	-	\$	1,857,151	\$	-	\$	1,890,90		
2035	\$	3,119,819	\$	-	\$	1,854,294	\$	-	\$	1,890,95		
2036	\$	3,198,185	\$	_	\$	1,823,378	\$	-	\$	1,862,34		
2037	\$	3,227,378	\$	-	\$	1,765,009	\$	-	\$	1,805,55		
2038	\$	3,239,377	\$	_	\$	1,699,349	\$	_	\$	1,741,10		
2039	\$	-,,	\$	3,306,154	\$	-	\$	1,769,807	\$	1,707,22		
2040	\$	_	\$	3,356,313	\$	<u>-</u>	\$	1,729,884	\$	1,665,07		
2041	\$	_	\$	3,411,075	\$	<u>-</u>	\$	1,692,768	\$	1,625,80		
2042	\$	_	\$	3,550,508	\$	_	\$	1,696,478	\$	1,625,81		
2043	\$	_	\$	3,628,994	\$	_	\$	1,669,536	\$	1,596,50		
2044	\$	_	\$	3,680,702	\$	_	\$	1,630,391	\$	1,555,67		
2045	\$	_	\$	3,685,399	\$	_	\$	1,571,800	\$	1,496,50		
2046	\$	_	\$	3,703,888	\$	_	\$	1,520,976	\$	1,444,95		
2047	\$	_	\$	3,727,158	\$	_	\$	1,473,649	\$	1,396,94		
	\$		\$		\$	_	\$	1,426,353	\$			
2048		-		3,746,787		-				1,349,16		
2049	\$	-	\$	3,749,950	\$	-	\$	1,374,501	\$	1,297,28		
2050	\$	-	\$	3,754,102	\$	-	\$	1,324,882	\$	1,247,72		
2051	\$	-	\$	3,736,514	\$	-	\$	1,269,666	\$	1,193,12		
2052	\$	-	\$	3,711,608	\$	-	\$	1,214,330	\$	1,138,63		
2053	\$	-	\$	3,671,520	\$	-	\$	1,156,571	\$	1,082,11		
2054	\$	-	\$	3,617,229	\$	-	\$	1,097,120	\$	1,024,25		
2055	\$	3,556,530	\$	-	\$	919,506	\$	-	\$	967,52		
2056	\$	3,491,395	\$	-	\$	865,866	\$	-	\$	912,51		
2057	\$	3,422,213	\$	-	\$		\$	-	\$	859,31		
2058	\$	3,350,051	\$	-	\$	764,454	\$	-	\$	808,16		
2059	\$	3,274,968	\$	-	\$	716,854	\$	=	\$	759,02		
2060	\$	3,197,563	\$	-	\$	671,377	\$	-	\$	711,99		
2061	\$	3,117,718	\$	-	\$	627,926	\$	-	\$	666,95		
2062	\$	3,035,750	\$	-	\$	586,491	\$	-	\$	623,92		
2063	\$	2,951,485	\$	-	\$	546,966	\$	-	\$	582,78		