



**Municipal Pensions
Oversight Board**

**City of Fairmont
West Virginia
Policemen's Pension and Relief Fund**

GASB 68 Actuarial Information for the
Measurement Period Ending
June 30, 2021

Bolton

Submitted by:

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October 17, 2021

Ms. Priscilla Hamilton
Finance Director
City of Fairmont
P.O. Box 1428
Fairmont, WV 26555

Sergeant Tyler Hall
Pension Board Secretary
City of Fairmont
Policemen's Pension and Relief Fund

Re: City of Fairmont Policemen's Pension and Relief Fund
GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2021

Dear Priscilla,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Fairmont Policemen's Pension and Relief Fund to be included in the City's financial statements for FY 2021. The GASB 67 information has been provided as of June 30, 2021 (the GASB 68 measurement date for FY 2021).

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, 2021 (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, 2020 actuarial valuation rolled forward to June 30, 2021. The methods, assumptions, and participant data used are detailed in the July 1, 2020 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, 2021 is contained in the July 1, 2019 valuation report. The discount rate assumption may have changed if a blended rate was used for GASB purposes. The ADC and blended rate determination are based on the Plan using the Conservation funding policy as described in WV Code §8-22-20. Under this funding policy, the City makes contributions to two separate accounts: the Benefit Payment Account and the Accumulation Account. The Benefit Payment Account is used to pay benefits on a pay-as-you-go basis while the Accumulation Account cannot be used to pay benefits and expenses until assets equal or exceed actuarial liabilities.

The included calculations are based on a blended discount rate of 3.56%. A long-term expected rate of investment return of 5.00% has been blended with the 1.92% 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, 2021. We assumed benefits are discounted at the municipal bond rate when paid from the Benefit Payment Account and at the long-term rate of return when paid from the Accumulation Account. The development of the blended discount rate is included within this report.

Methodology, Reliance and Certification (cont.)

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.

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.

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.



Methodology, Reliance and Certification (cont.)

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.

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.

As described on page 1, the municipal bond rate is used to discount benefit payments assumed to be made from the Benefit Payment Account while the expected long-term rate of return on plan investments assumption is used to discount benefit payments made from the Accumulation Account. If, instead, the municipal bond rate were used to discount all benefit payments from both accounts, the estimated present value of future and accrued benefits could substantially increase.

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, 2020 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



City of Fairmont, West Virginia Policemen's Pension and Relief Fund
 Actuarial Information to Include in the Financial Statements
 for the June 30, 2021 Measurement Date



Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2021, were as follows:

Total pension liability	\$ 35,505,013
Plan fiduciary net position	(10,260,393)
Employer's net pension liability	<u>\$ 25,244,620</u>
Plan fiduciary net position as a percentage of the total pension liability	28.90%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2020 rolled forward to June 30, 2021 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)	3.57%
Single discount rate (EOY)	3.56%
Investment rate of return (BOY)	5.00%, net of pension plan investment expense, including inflation
Investment rate of return (EOY)	5.00%, net of pension plan investment expense, including inflation
Long-term municipal bond rate (BOY)	2.45%
Long-term municipal bond rate (EOY)	1.92%
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019
Year Fund is projected to be fully funded	2042
Year assets are expected to be depleted for a closed plan	N/A

The above is a summary of key actuarial assumptions. Full descriptions of the actuarial assumptions are available in the July 1, 2020 actuarial valuation report.

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

	1% Decrease 2.56%	Current Discount Rate 3.56%	1% Increase 4.56%
Employer's net pension liability	\$ 31,334,260	\$ 25,244,620	\$ 20,470,898

City of Fairmont, West Virginia Policemen's Pension and Relief Fund
 Actuarial Information to Include in the Financial Statements
 for the June 30, 2021 Measurement Date



Changes in the Net Pension Liability

	Total Pension Liability (a)	Increase (Decrease) Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at 6/30/20	\$ 37,365,108	\$ 7,654,327	\$ 29,710,781
Changes for the year:			
Service cost	735,169		735,169
Interest	1,307,188		1,307,188
Changes of benefit terms	-		-
Differences between expected and actual experience	972,323		972,323
Changes of assumptions	(3,376,414)		(3,376,414)
Contributions - employer (including Premium Tax Allocation)		2,179,356	(2,179,356)
Contributions - member		96,828	(96,828)
Net investment income*		1,829,306	(1,829,306)
Benefit payments, including refunds of member contributions	(1,498,361)	(1,498,361)	-
Administrative expense		(1,063)	1,063
Other		-	-
Net Changes	<u>(1,860,095)</u>	<u>2,606,066</u>	<u>(4,466,161)</u>
Balances at 6/30/21	<u>\$ 35,505,013</u>	<u>\$ 10,260,393</u>	<u>\$ 25,244,620</u>
Return on Investments		22.7%	

*The Plan Fiduciary Net Position as of July 1, 2020 provided to Bolton by the City does not match the Plan Fiduciary Net Position as of June 30, 2020 as provided in the prior GASB report. The difference of \$7,072 has been excluded as investment income for the measurement period ending June 30, 2021.

City of Fairmont, West Virginia Policemen's Pension and Relief Fund
 Actuarial Information to Include in the Financial Statements
 for the June 30, 2021 Measurement Date



Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2021

Note	Description	Amount
A	Service cost	\$ 735,169
B	Interest on the total pension liability	1,307,188
A	Changes of benefit terms	-
C	Differences between expected and actual experience	450,169
C	Changes of assumptions	(406,920)
A	Employee contributions	(96,828)
D	Projected earnings on pension plan investments	(402,135)
C	Differences between expected and actual earnings on plan investments	(373,256)
A	Pension plan administrative expense	1,063
A	Other changes in fiduciary net position	-
Total Pension Expense		\$ 1,214,450

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	\$ 37,365,108	100%	3.57%	\$ 1,333,934
Service cost (End of Year)	735,169	0%	3.57%	-
Benefit payments, including refunds of employee contributions	(1,498,361)	50%	3.57%	(26,746)
Total interest on the total pension liability				\$ 1,307,188

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)	Projected Earnings (a) x (b) x (c)
Beginning plan fiduciary net position	\$ 7,654,327	100%	5.00%	\$ 382,716
Employer contributions	2,179,356	50%	5.00%	54,484
Employee contributions	96,828	50%	5.00%	2,421
Benefit payments, including refunds of employee contributions	(1,498,361)	50%	5.00%	(37,459)
Administrative expense and other	(1,063)	50%	5.00%	(27)
Total Projected Earnings				\$ 402,135

City of Fairmont, West Virginia Policemen’s Pension and Relief Fund
 Actuarial Information to Include in the Financial Statements
 for the June 30, 2021 Measurement Date



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

At June 30, 2021, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 573,884	\$ 22,283
Changes of assumptions	1,239,960	1,688,207
Net difference between projected and actual earnings on pension plan investments	-	1,183,639
Total	\$ 1,813,844	\$ 2,894,129

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:	
2022	\$ (223,443)
2023	(289,385)
2024	(282,022)
2025	(285,435)
2026	-
Thereafter	-

City of Fairmont, West Virginia Policemen's Pension and Relief Fund
 Actuarial Information to Include in the Financial Statements
 for the June 30, 2021 Measurement Date



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

Total pension liability	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Service cost	\$ 735,169	\$ 669,168	\$ 857,519	\$ 879,126	\$ 806,331	\$ 577,884	\$ 606,861	\$ 606,293	\$ -	\$ -
Interest	1,307,188	1,333,123	1,323,599	1,343,503	1,304,935	1,270,801	1,289,059	1,281,433	-	-
Changes of benefit terms	-	-	-	-	-	-	-	-	-	-
Differences between expected and actual experience	972,323	(62,641)	350,895	(7,814)	(683,138)	(1,073,542)	(303,310)	-	-	-
Changes of assumptions	(3,376,414)	1,721,033	1,527,079	1,587,870	-	3,517,078	-	-	-	-
Benefit payments, including refunds of member contributions	(1,498,361)	(1,486,436)	(1,441,469)	(1,306,651)	(1,258,884)	(1,169,767)	(1,176,326)	(1,081,768)	-	-
Net change in total pension liability	(1,860,095)	2,174,247	2,617,623	2,496,034	169,244	3,122,454	416,284	805,968	-	-
Total pension liability - beginning	37,365,108	35,190,861	32,573,238	30,077,204	29,907,960	26,785,506	26,369,222	25,563,254	-	-
Total pension liability - ending (a)	\$ 35,505,013	\$ 37,365,108	\$ 35,190,861	\$ 32,573,238	\$ 30,077,204	\$ 29,907,960	\$ 26,785,506	\$ 26,369,222	\$ -	\$ -
Plan fiduciary net position	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Contributions - employer (including Premium Tax Allocation)	\$ 2,179,356	\$ 1,661,815	\$ 1,334,868	\$ 1,264,421	\$ 1,083,344	\$ 1,006,183	\$ 995,568	\$ 906,968	\$ -	\$ -
Contributions - member	96,828	104,066	109,129	141,121	146,707	137,663	130,842	130,476	-	-
Net investment income	1,829,306	341,602	369,986	453,649	461,308	146,656	87,174	592,817	-	-
Benefit payments, including refunds of member contributions	(1,498,361)	(1,486,436)	(1,441,469)	(1,306,651)	(1,258,884)	(1,169,767)	(1,176,326)	(1,081,758)	-	-
Administrative expense	(1,063)	(826)	(526)	(739)	(977)	(951)	(1,198)	(1,305)	-	-
Other	-	-	(67)	463,152	218,837	25,612	1,271	51,320	-	-
Net change in plan fiduciary net position	\$ 2,606,066	\$ 620,221	\$ 371,921	\$ 1,014,953	\$ 650,335	\$ 145,396	\$ 37,331	\$ 598,518	\$ -	\$ -
Plan fiduciary net position - beginning	7,654,327	7,034,106	6,662,185	5,647,232	4,996,897	4,851,501	4,814,170	4,215,651	-	-
Plan fiduciary net position - ending (b)	\$ 10,260,393	\$ 7,654,327	\$ 7,034,106	\$ 6,662,185	\$ 5,647,232	\$ 4,996,897	\$ 4,851,501	\$ 4,814,169	\$ -	\$ -
Employer's net pension liability - ending (a)-(b)	\$ 25,244,620	\$ 29,710,781	\$ 28,156,755	\$ 25,911,053	\$ 24,429,972	\$ 24,911,063	\$ 21,934,005	\$ 21,555,053	\$ -	\$ -
Plan fiduciary net position as a percentage of the total pension liability	28.90%	20.49%	19.99%	20.45%	18.78%	16.71%	18.11%	18.26%	0.00%	0.00%
Covered payroll	\$ 1,176,249	\$ 1,152,901	\$ 1,482,225	\$ 1,732,845	\$ 1,598,037	\$ 1,598,060	\$ 1,674,166	\$ 1,639,169	\$ -	\$ -
Employer's net pension liability as a percentage of covered payroll	2146.20%	2577.05%	1899.63%	1495.29%	1528.75%	1558.83%	1310.15%	1315.00%	0.00%	0.00%
Expected average remaining service years of all participants	2.00	3.00	4.00	4.87	4.70	4.30	4.45	-	-	-

Notes to Schedule:

Benefit changes: There were no changes for FY2021.

Changes of assumptions: The discount rate changed from 3.57% to 3.56%. Changes were made to salary scale assumptions, pay spiking assumptions, inflation, cost-of-living increases, mortality rates, retirement rates, termination rates, disability rates, marital status, and non-spouse beneficiary loads.

*The Plan Fiduciary Net Position as of July 1, 2020 provided to Bolton by the City does not match the Plan Fiduciary Net Position as of June 30, 2020 as provided in the prior GASB report. The difference of \$7,072 has been excluded as investment income for the measurement period ending June 30, 2021.

*The Plan Fiduciary Net Position as of July 1, 2019 provided to Bolton by the City does not match the Plan Fiduciary Net Position as of June 30, 2019 as provided in the prior GASB report. The difference of \$7,358 has been included as investment income for the measurement period ending June 30, 2020.

City of Fairmont, West Virginia Policemen's Pension and Relief Fund
 Actuarial Information to Include in the Financial Statements
 for the June 30, 2021 Measurement Date



Schedule of Employer Contributions
 Last 10 Fiscal Years

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Actuarially determined contribution	\$ 1,823,845	\$ 1,903,011	\$ 2,006,527	\$ 1,739,774	\$ 1,778,937	\$ 1,708,591	\$ 1,401,173	\$ 1,383,346	\$ 1,282,078	\$ -
Contributions in relation to the actuarially determined contribution										
Employer provided	1,745,324	1,241,317	955,586	888,104	715,676	669,536	669,372	583,261	545,104	-
State provided	434,032	420,498	379,282	376,317	367,668	336,647	326,196	323,707	342,568	-
Contribution deficiency (excess)	<u>\$ (355,511)</u>	<u>\$ 241,196</u>	<u>\$ 671,659</u>	<u>\$ 475,353</u>	<u>\$ 695,593</u>	<u>\$ 702,408</u>	<u>\$ 405,605</u>	<u>\$ 476,378</u>	<u>\$ 394,406</u>	<u>\$ -</u>
Covered payroll	\$ 1,176,249	\$ 1,152,901	\$ 1,482,225	\$ 1,732,845	\$ 1,598,037	\$ 1,598,060	\$ 1,674,166	\$ 1,639,169	\$ 1,469,669	\$ -
Contributions as a percentage of covered employee payroll	185.28%	144.14%	90.06%	72.97%	67.79%	62.96%	59.47%	55.33%	60.40%	N/A

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. Actuarial valuations are performed every year.

Methods and assumptions used to determine contribution rates:

Actuarial cost method	Entry Age Normal
Amortization method	Level Dollar
Remaining amortization period	30.5 years
Asset valuation method	Market Value
Inflation	2.75 percent
Salary increases	Rates vary by years of service
Investment rate of return	5.00%, net of pension plan investment expense, including inflation
Retirement age	Rates vary by age
Mortality	RP-2014 Blue Collar Mortality Table with generational projection using Scale MP-2014

City of Fairmont, West Virginia Policemen's Pension and Relief Fund
 Actuarial Information to Include in the Financial Statements
 for the June 30, 2021 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.

Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Projected and Actual Earnings on Plan Investments											
Year	Differences between Projected and Actual Earnings on Pension Plan Investments	Recognition Period (Years)	2017	2018	2019	2020	2021	2022	2023	2024	2025
2017	\$ (232,305)	5	\$ (46,461)	(46,461)	(46,461)	(46,461)	(46,461)				
2018	(187,047)	5		\$ (37,409)	(37,409)	(37,409)	(37,409)	(37,411)			
2019	(36,829)	5			\$ (7,366)	(7,366)	(7,366)	(7,366)	(7,365)		
2020	17,068	5				\$ 3,414	3,414	3,414	3,414	3,412	
2021	(1,427,171)	5					\$ (285,434)	(285,434)	(285,434)	(285,434)	(285,435)
Net increase (decrease) in pension expense							\$ (373,256)	\$ (326,797)	\$ (289,385)	\$ (282,022)	\$ (285,435)

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

Year	Investment Earnings Less than Projected (a)	Investment Earnings Greater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)	Balances at June 30, 2021	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2017	\$ -	\$ 232,305	\$ 232,305	\$ -	\$ -
2018	-	187,047	149,636	-	37,411
2019	-	36,829	22,098	-	14,731
2020	17,068	-	6,828	10,240	-
2021	-	1,427,171	285,434	-	1,141,737
				\$ 10,240	\$ 1,193,879



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	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Thereafter
Prior	-	-																	-
2012	-	-																	-
2013	-	-																	-
2014	-	-																	-
2015	(303,310)	4.452857					\$ (68,116)	(68,116)	(68,116)	(68,116)	(30,846)								
2016	(1,073,542)	4.300163						\$ (249,651)	(249,651)	(249,651)	(249,651)	(74,938)							
2017	(683,138)	4.695895							\$ (145,476)	(145,476)	(145,476)	(145,476)	(101,234)						
2018	(7,814)	4.873169								\$ (1,603)	(1,603)	(1,603)	(1,603)	(1,402)					
2019	350,895	4.000000									\$ 87,724	87,724	87,724	87,723					
2020	(62,641)	3.000000										\$ (20,880)	(20,880)	(20,881)					
2021	972,323	2.000000											\$ 486,162	486,161					
Net increase (decrease) in pension expense													\$ 450,169	\$ 551,601	\$ -	\$ -	\$ -	\$ -	\$ -

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

Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)	Balances at June 30, 2021	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$ -	\$ -	\$ -	\$ -
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	303,310	303,310	-	-
2016	-	1,073,542	1,073,542	-	-
2017	-	683,138	683,138	-	-
2018	-	7,814	6,412	-	1,402
2019	350,895	-	263,172	87,723	-
2020	-	62,641	41,760	-	20,881
2021	972,323	-	486,162	486,161	-
				\$ 573,884	\$ 22,283



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																			
Year	Changes of Assumptions	Recognition Period (Years)	Prior	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Thereafter
Prior	\$ -	-																	-
2012	-	-																	
2013	-	-																	
2014	-	-																	
2015	-	4.452857																	
2016	3,517,078	4.300163						\$ 817,894	817,894	817,894	817,894	245,502							
2017	-	4.695895																	
2018	1,587,870	4.873169								\$ 325,839	325,839	325,839	325,839	284,514					
2019	1,527,079	4.000000									\$ 381,770	381,770	381,770	381,770	381,769				
2020	1,721,033	3.000000										\$ 573,678	573,678	573,677					
2021	(3,376,414)	2.000000											\$ (1,688,207)	(1,688,207)					
Net increase (decrease) in pension expense													\$ (406,920)	\$ (448,247)	\$ -	\$ -	\$ -	\$ -	\$ -

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

Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)	Balances at June 30, 2021	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$ -	\$ -	\$ -	\$ -
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	3,517,078	-	3,517,078	-	-
2017	-	-	-	-	-
2018	1,587,870	-	1,303,356	284,514	-
2019	1,527,079	-	1,145,310	381,769	-
2020	1,721,033	-	1,147,356	573,677	-
2021	-	3,376,414	1,688,207	-	1,688,207
				\$ 1,239,960	\$ 1,688,207

City of Fairmont, West Virginia Policemen's Pension and Relief Fund
 Actuarial Information to Include in the Financial Statements
 for the June 30, 2021 Measurement Date



Projection of Pension Plan's Fiduciary Net Position

Fiscal Year	Number (BOY)		Benefit Payment Account							Accumulation Account							Accrued Liability	Unfunded Liability	Funded Ratio
	Active	Non-Active	Assets (BOY)	Net Benefit Pmts and Expenses	Employer Contributions	Employee Contributions	100.00% of Premium Tax Allocation	Investment Income	Transfer (To)/From Accumulation Account	Assets (BOY)	Net Benefit Pmts and Expenses	Employer Contributions	1.50% of Pay Employee Contributions	0.00% of Premium Tax Allocation	Investment Income				
2022	18	51	\$ 239,672	\$ 1,547,159	\$ 1,053,873	\$ 73,217	\$ 420,069	\$ 11,984	\$ (251,656)	\$ 10,020,721	\$ -	\$ -	\$ 16,719	\$ -	\$ 501,449	\$ 29,194,636	\$ 18,404,091	37%	
2023	17	51	\$ -	\$ 1,550,869	\$ 1,058,013	\$ 69,365	\$ 423,491	\$ -	\$ -	\$ 10,790,545	\$ -	\$ -	\$ 15,885	\$ -	\$ 539,920	\$ 29,426,018	\$ 18,079,668	39%	
2024	15	50	\$ -	\$ 1,556,178	\$ 1,048,491	\$ 65,321	\$ 442,366	\$ -	\$ -	\$ 11,346,350	\$ -	\$ -	\$ 14,974	\$ -	\$ 567,687	\$ 29,645,158	\$ 17,716,147	40%	
2025	14	50	\$ -	\$ 1,591,355	\$ 1,077,659	\$ 59,992	\$ 453,704	\$ -	\$ -	\$ 11,929,011	\$ -	\$ -	\$ 13,693	\$ -	\$ 596,789	\$ 29,811,896	\$ 17,272,403	42%	
2026	13	50	\$ -	\$ 1,632,095	\$ 1,112,782	\$ 53,987	\$ 465,326	\$ -	\$ -	\$ 12,539,493	\$ -	\$ -	\$ 12,211	\$ -	\$ 627,276	\$ 29,912,376	\$ 16,733,396	44%	
2027	11	50	\$ -	\$ 1,656,587	\$ 1,129,063	\$ 49,349	\$ 478,175	\$ -	\$ -	\$ 13,178,980	\$ -	\$ -	\$ 11,088	\$ -	\$ 659,223	\$ 29,966,904	\$ 16,117,613	46%	
2028	10	49	\$ -	\$ 1,662,458	\$ 1,122,696	\$ 46,271	\$ 493,491	\$ -	\$ -	\$ 13,849,291	\$ -	\$ -	\$ 10,375	\$ -	\$ 692,721	\$ 30,003,582	\$ 15,451,195	49%	
2029	10	48	\$ -	\$ 1,692,519	\$ 1,142,326	\$ 42,146	\$ 508,047	\$ -	\$ -	\$ 14,552,387	\$ -	\$ -	\$ 9,359	\$ -	\$ 727,850	\$ 29,987,988	\$ 14,698,392	51%	
2030	8	48	\$ -	\$ 1,717,943	\$ 1,155,558	\$ 37,909	\$ 524,476	\$ -	\$ -	\$ 15,289,596	\$ -	\$ -	\$ 8,318	\$ -	\$ 764,685	\$ 29,920,431	\$ 13,857,832	54%	
2031	7	48	\$ -	\$ 1,718,519	\$ 1,145,207	\$ 35,465	\$ 537,847	\$ -	\$ -	\$ 16,062,599	\$ -	\$ -	\$ 7,749	\$ -	\$ 803,321	\$ 29,836,225	\$ 12,962,556	57%	
2032	7	47	\$ -	\$ 1,713,699	\$ 1,128,451	\$ 33,696	\$ 551,552	\$ -	\$ -	\$ 16,873,669	\$ -	\$ -	\$ 7,346	\$ -	\$ 843,865	\$ 29,744,739	\$ 12,019,859	60%	
2033	6	46	\$ -	\$ 1,701,699	\$ 1,102,266	\$ 32,343	\$ 567,090	\$ -	\$ -	\$ 17,724,880	\$ -	\$ -	\$ 7,043	\$ -	\$ 886,418	\$ 29,655,707	\$ 11,037,366	63%	
2034	6	45	\$ -	\$ 1,726,827	\$ 1,111,542	\$ 29,811	\$ 585,474	\$ -	\$ -	\$ 18,618,341	\$ -	\$ -	\$ 6,403	\$ -	\$ 931,075	\$ 29,523,833	\$ 9,968,014	66%	
2035	5	44	\$ -	\$ 1,737,874	\$ 1,108,148	\$ 27,002	\$ 602,724	\$ -	\$ -	\$ 19,555,819	\$ -	\$ -	\$ 5,694	\$ -	\$ 977,932	\$ 29,359,403	\$ 8,819,958	70%	
2036	5	43	\$ -	\$ 1,735,055	\$ 1,072,889	\$ 24,862	\$ 637,304	\$ -	\$ -	\$ 20,539,445	\$ -	\$ -	\$ 5,222	\$ -	\$ 1,027,101	\$ 29,179,619	\$ 7,607,851	74%	
2037	4	43	\$ -	\$ 1,728,097	\$ 1,044,830	\$ 22,877	\$ 660,390	\$ -	\$ -	\$ 21,571,768	\$ -	\$ -	\$ 4,809	\$ -	\$ 1,078,707	\$ 28,989,049	\$ 6,333,765	78%	
2038	4	42	\$ -	\$ 1,734,620	\$ 1,036,653	\$ 20,833	\$ 677,134	\$ -	\$ -	\$ 22,655,284	\$ -	\$ -	\$ 4,307	\$ -	\$ 1,132,871	\$ 28,770,791	\$ 4,978,329	83%	
2039	3	41	\$ -	\$ 1,748,984	\$ 1,019,975	\$ 18,196	\$ 710,813	\$ -	\$ -	\$ 23,792,462	\$ -	\$ -	\$ 3,632	\$ -	\$ 1,189,713	\$ 28,510,837	\$ 3,525,030	88%	
2040	3	40	\$ -	\$ 1,744,085	\$ 998,787	\$ 16,490	\$ 728,808	\$ -	\$ -	\$ 24,985,807	\$ -	\$ -	\$ 3,204	\$ -	\$ 1,249,369	\$ 28,233,615	\$ 1,995,235	93%	
2041	3	39	\$ -	\$ 1,745,765	\$ 984,189	\$ 14,323	\$ 747,253	\$ -	\$ -	\$ 26,238,380	\$ -	\$ -	\$ 2,748	\$ -	\$ 1,311,987	\$ 27,930,229	\$ 377,114	99%	
2042	2	39	\$ -	\$ 1,752,784	\$ 728	\$ 11,036	\$ 428,616	\$ -	\$ 1,312,404	\$ 27,553,115	\$ -	\$ -	\$ 2,104	\$ -	\$ 1,345,298	\$ 27,588,113	\$ -	100%	
2043	1	38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,588,113	\$ 1,759,432	\$ 30,573	\$ 9,239	\$ -	\$ 1,336,940	\$ 27,205,433	\$ -	100%	
2044	1	37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,205,433	\$ 1,758,819	\$ 19,960	\$ 5,863	\$ -	\$ 1,317,475	\$ 26,789,912	\$ -	100%	
2045	1	37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,789,912	\$ 1,748,764	\$ 12,328	\$ 3,399	\$ -	\$ 1,296,698	\$ 26,353,573	\$ -	100%	
2046	0	36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,353,573	\$ 1,726,658	\$ 7,285	\$ 1,832	\$ -	\$ 1,275,264	\$ 25,911,296	\$ -	100%	
2047	0	34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,911,296	\$ 1,696,517	\$ 4,625	\$ 1,054	\$ -	\$ 1,253,809	\$ 25,474,267	\$ -	100%	
2048	0	33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,474,267	\$ 1,662,281	\$ 2,919	\$ 584	\$ -	\$ 1,232,750	\$ 25,048,239	\$ -	100%	
2049	0	32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,048,239	\$ 1,624,882	\$ 1,936	\$ 318	\$ -	\$ 1,212,341	\$ 24,637,952	\$ -	100%	
2050	0	31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,637,952	\$ 1,585,022	\$ 1,393	\$ 174	\$ -	\$ 1,192,794	\$ 24,247,291	\$ -	100%	
2051	0	30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,247,291	\$ 1,543,491	\$ 1,032	\$ 85	\$ -	\$ 1,174,276	\$ 23,879,193	\$ -	100%	
2052	0	29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,879,193	\$ 1,500,503	\$ 835	\$ 40	\$ -	\$ 1,156,926	\$ 23,536,491	\$ -	100%	
2053	0	28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,536,491	\$ 1,456,448	\$ 721	\$ 15	\$ -	\$ 1,140,876	\$ 23,221,655	\$ -	100%	
2054	0	26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,221,655	\$ 1,411,421	\$ 643	\$ 5	\$ -	\$ 1,126,244	\$ 22,937,126	\$ -	100%	
2055	0	25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,937,126	\$ 1,365,624	\$ 612	\$ -	\$ -	\$ 1,113,147	\$ 22,685,261	\$ -	100%	
2056	0	24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,685,261	\$ 1,319,136	\$ 602	\$ -	\$ -	\$ 1,101,702	\$ 22,468,429	\$ -	100%	
2057	0	23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,468,429	\$ 1,272,026	\$ 591	\$ -	\$ -	\$ 1,092,023	\$ 22,289,017	\$ -	100%	
2058	0	22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,289,017	\$ 1,224,402	\$ 579	\$ -	\$ -	\$ 1,084,228	\$ 22,149,422	\$ -	100%	
2059	0	21	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,149,422	\$ 1,176,372	\$ 566	\$ -	\$ -	\$ 1,078,434	\$ 22,052,050	\$ -	100%	
2060	0	20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,052,050	\$ 1,128,130	\$ 553	\$ -	\$ -	\$ 1,074,757	\$ 21,999,230	\$ -	100%	
2061	0	19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,999,230	\$ 1,079,895	\$ 538	\$ -	\$ -	\$ 1,073,307	\$ 21,993,180	\$ -	100%	

City of Fairmont, West Virginia Policemen's Pension and Relief Fund
 Actuarial Information to Include in the Financial Statements
 for the June 30, 2021 Measurement Date



Projection of Pension Plan's Fiduciary Net Position

Fiscal Year	Projected BP	"Funded" Portion of BP	"Unfunded" Portion of BP	PV of "Funded" Portion of BP	PV of "Unfunded" Portion of BP	PV of BP Using a Single DR
2021	\$ 1,498,361	\$ -	\$ 1,498,361	\$ -	\$ 1,484,181	\$ 1,472,349
2022	\$ 1,546,413	\$ -	\$ 1,546,413	\$ -	\$ 1,502,922	\$ 1,467,264
2023	\$ 1,550,115	\$ -	\$ 1,550,115	\$ -	\$ 1,478,139	\$ 1,420,153
2024	\$ 1,555,439	\$ -	\$ 1,555,439	\$ -	\$ 1,455,275	\$ 1,375,982
2025	\$ 1,590,609	\$ -	\$ 1,590,609	\$ -	\$ 1,460,145	\$ 1,358,663
2026	\$ 1,631,342	\$ -	\$ 1,631,342	\$ -	\$ 1,469,326	\$ 1,345,495
2027	\$ 1,655,840	\$ -	\$ 1,655,840	\$ -	\$ 1,463,296	\$ 1,318,694
2028	\$ 1,661,717	\$ -	\$ 1,661,717	\$ -	\$ 1,440,826	\$ 1,277,824
2029	\$ 1,691,772	\$ -	\$ 1,691,772	\$ -	\$ 1,439,252	\$ 1,256,158
2030	\$ 1,717,204	\$ -	\$ 1,717,204	\$ -	\$ 1,433,367	\$ 1,231,156
2031	\$ 1,717,775	\$ -	\$ 1,717,775	\$ -	\$ 1,406,833	\$ 1,189,176
2032	\$ 1,712,950	\$ -	\$ 1,712,950	\$ -	\$ 1,376,453	\$ 1,145,020
2033	\$ 1,700,960	\$ -	\$ 1,700,960	\$ -	\$ 1,341,070	\$ 1,097,870
2034	\$ 1,726,084	\$ -	\$ 1,726,084	\$ -	\$ 1,335,242	\$ 1,075,740
2035	\$ 1,737,142	\$ -	\$ 1,737,142	\$ -	\$ 1,318,481	\$ 1,045,368
2036	\$ 1,734,320	\$ -	\$ 1,734,320	\$ -	\$ 1,291,541	\$ 1,007,747
2037	\$ 1,727,359	\$ -	\$ 1,727,359	\$ -	\$ 1,262,125	\$ 969,156
2038	\$ 1,733,880	\$ -	\$ 1,733,880	\$ -	\$ 1,243,023	\$ 939,331
2039	\$ 1,748,258	\$ -	\$ 1,748,258	\$ -	\$ 1,229,720	\$ 914,521
2040	\$ 1,743,358	\$ -	\$ 1,743,358	\$ -	\$ 1,203,173	\$ 880,568
2041	\$ 1,745,037	\$ -	\$ 1,745,037	\$ -	\$ 1,181,644	\$ 851,079
2042	\$ 1,752,056	\$ -	\$ 1,752,056	\$ -	\$ 1,164,047	\$ 825,091
2043	\$ 1,758,722	\$ 1,758,722	\$ -	\$ 586,730	\$ -	\$ 799,723
2044	\$ 1,758,110	\$ 1,758,110	\$ -	\$ 558,596	\$ -	\$ 771,928
2045	\$ 1,748,037	\$ 1,748,037	\$ -	\$ 528,948	\$ -	\$ 741,088
2046	\$ 1,725,952	\$ 1,725,952	\$ -	\$ 497,395	\$ -	\$ 706,540
2047	\$ 1,695,834	\$ 1,695,834	\$ -	\$ 465,443	\$ -	\$ 670,316
2048	\$ 1,661,602	\$ 1,661,602	\$ -	\$ 434,331	\$ -	\$ 634,179
2049	\$ 1,624,207	\$ 1,624,207	\$ -	\$ 404,340	\$ -	\$ 598,570
2050	\$ 1,584,352	\$ 1,584,352	\$ -	\$ 375,636	\$ -	\$ 563,785
2051	\$ 1,542,826	\$ 1,542,826	\$ -	\$ 348,372	\$ -	\$ 530,112
2052	\$ 1,499,844	\$ 1,499,844	\$ -	\$ 322,540	\$ -	\$ 497,605
2053	\$ 1,455,796	\$ 1,455,796	\$ -	\$ 298,159	\$ -	\$ 466,367
2054	\$ 1,410,800	\$ 1,410,800	\$ -	\$ 275,184	\$ -	\$ 436,397
2055	\$ 1,365,012	\$ 1,365,012	\$ -	\$ 253,575	\$ -	\$ 407,700
2056	\$ 1,318,534	\$ 1,318,534	\$ -	\$ 233,277	\$ -	\$ 380,263
2057	\$ 1,271,435	\$ 1,271,435	\$ -	\$ 214,232	\$ -	\$ 354,059
2058	\$ 1,223,823	\$ 1,223,823	\$ -	\$ 196,390	\$ -	\$ 329,070
2059	\$ 1,175,806	\$ 1,175,806	\$ -	\$ 179,700	\$ -	\$ 305,277
2060	\$ 1,127,577	\$ 1,127,577	\$ -	\$ 164,123	\$ -	\$ 282,679
2061	\$ 1,079,357	\$ 1,079,357	\$ -	\$ 149,623	\$ -	\$ 261,277