



**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, 2020

**Bolton**

Submitted by:

**James Ritchie, ASA, EA, FCA, MAAA**  
Senior Consulting Actuary  
443.573.3924  
jritchie@boltonusa.com

**Jordan McClane, FSA, EA, FCA, MAAA**  
Actuary  
667.218.6935  
jmclane@boltonusa.com



Employee Benefits, Actuarial & Investment Consulting

October 30, 2020

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

Detective 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, 2020

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 2020. The GASB 67 information has been provided as of June 30, 2020 (the GASB 68 measurement date for FY 2020).

#### 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, 2020 (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, 2019 actuarial valuation rolled forward to June 30, 2020. The methods, assumptions, and participant data used are detailed in the July 1, 2019 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, 2020 is contained in the July 1, 2018 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 3.57%. A long-term expected rate of investment return of 5.00% has been blended with the 2.45% 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, 2020. 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. These calculations are complex. Despite our best efforts, we may make a mistake. 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.

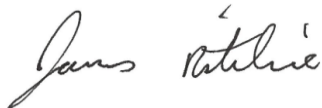
The calculation of actuarial liabilities for valuation purposes is based on a current estimate of future benefit payments. The calculation includes a computation of the "present value" of those estimated future benefit payments using an assumed discount rate; the higher the discount rate assumption, the lower the estimated liability will be. 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 corresponding to 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, 2019 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, 2020 Measurement Date



Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2020, were as follows:

Total pension liability	\$ 37,365,108
Plan fiduciary net position	(7,654,327)
Employer's net pension liability	<u>\$ 29,710,781</u>
Plan fiduciary net position as a percentage of the total pension liability	20.49%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2019 rolled forward to June 30, 2020 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.75 percent
Salary increases	Rates vary by years of service
Single discount rate (BOY)	3.87%
Single discount rate (EOY)	3.57%
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)	3.13%
Long-term municipal bond rate (EOY)	2.45%
Mortality	RP-2014 Blue Collar Mortality Table with generational projection using Scale MP-2014
Year Fund is projected to be fully funded	2049
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, 2019 actuarial valuation report.

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

	1% Decrease 2.57%	Current Discount Rate 3.57%	1% Increase 4.57%
Employer's net pension liability	\$ 36,499,094	\$ 29,710,781	\$ 24,432,716

City of Fairmont, West Virginia Policemen's Pension and Relief Fund  
 Actuarial Information to Include in the Financial Statements  
 for the June 30, 2020 Measurement Date



Changes in the Net Pension Liability

	Total Pension Liability (a)	Increase (Decrease) Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
<b>Balances at 6/30/19</b>	\$ 35,190,861	\$ 7,034,106	\$ 28,156,755
<b>Changes for the year:</b>			
Service cost	669,168		669,168
Interest	1,333,123		1,333,123
Changes of benefit terms	-		-
Differences between expected and actual experience	(62,641)		(62,641)
Changes of assumptions	1,721,033		1,721,033
Contributions - employer (including Premium Tax Allocation)		1,661,815	(1,661,815)
Contributions - member		104,066	(104,066)
Net investment income*		341,602	(341,602)
Benefit payments, including refunds of member contributions	(1,486,436)	(1,486,436)	-
Administrative expense		(826)	826
Other		-	-
<b>Net Changes</b>	<u>2,174,247</u>	<u>620,221</u>	<u>1,554,026</u>
<b>Balances at 6/30/20</b>	<u>\$ 37,365,108</u>	<u>\$ 7,654,327</u>	<u>\$ 29,710,781</u>

Return on Investments	4.8%
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\*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, 2020 Measurement Date



Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2020

Note	Description	Amount
A	Service cost	\$ 669,168
B	Interest on the total pension liability	1,333,123
A	Changes of benefit terms	-
C	Differences between expected and actual experience	(155,173)
C	Changes of assumptions	1,526,789
A	Employee contributions	(104,066)
D	Projected earnings on pension plan investments	(358,670)
C	Differences between expected and actual earnings on plan investments	(68,676)
A	Pension plan administrative expense	826
A	Other changes in fiduciary net position	-
<b>Total Pension Expense</b>		<b>\$ 2,843,321</b>

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	\$ 35,190,861	100%	3.87%	\$ 1,361,886
Service cost (End of Year)	669,168	0%	3.87%	-
Benefit payments, including refunds of employee contributions	(1,486,436)	50%	3.87%	(28,763)
<b>Total interest on the total pension liability</b>				<b>\$ 1,333,123</b>

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	\$ 7,034,106	100%	5.00%	\$ 351,705
Employer contributions	1,661,815	50%	5.00%	41,545
Employee contributions	104,066	50%	5.00%	2,602
Benefit payments, including refunds of employee contributions	(1,486,436)	50%	5.00%	(37,161)
Administrative expense and other	(826)	50%	5.00%	(21)
<b>Total Projected Earnings</b>				<b>\$ 358,670</b>

City of Fairmont, West Virginia Policemen's Pension and Relief Fund  
 Actuarial Information to Include in the Financial Statements  
 for the June 30, 2020 Measurement Date



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

At June 30, 2020, 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	\$ 175,447	\$ 146,000
Changes of assumptions	2,521,247	-
Net difference between projected and actual earnings on pension plan investments	-	129,724
<b>Total</b>	<b>\$ 2,696,694</b>	<b>\$ 275,724</b>

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

<b>Year ended June 30:</b>	
2021	\$ 1,157,472
2022	1,264,037
2023	(3,951)
2024	3,412
2025	-
Thereafter	-



City of Fairmont, West Virginia Policemen's Pension and Relief Fund  
 Actuarial Information to Include in the Financial Statements  
 for the June 30, 2020 Measurement Date



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

Total pension liability	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Service cost	\$ 669,168	\$ 857,519	\$ 879,126	\$ 806,331	\$ 577,884	\$ 606,861	\$ 606,293	\$ -	\$ -	\$ -
Interest	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	(62,641)	350,895	(7,814)	(683,138)	(1,073,542)	(303,310)	-	-	-	-
Changes of assumptions	1,721,033	1,527,079	1,587,870	-	3,517,078	-	-	-	-	-
Benefit payments, including refunds of member contributions	(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	2,174,247	2,617,623	2,496,034	169,244	3,122,454	416,284	805,968	-	-	-
Total pension liability - beginning	35,190,861	32,573,238	30,077,204	29,907,960	26,785,506	26,369,222	25,563,254	-	-	-
<b>Total pension liability - ending (a)</b>	<b>\$ 37,365,108</b>	<b>\$ 35,190,861</b>	<b>\$ 32,573,238</b>	<b>\$ 30,077,204</b>	<b>\$ 29,907,960</b>	<b>\$ 26,785,506</b>	<b>\$ 26,369,222</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
Plan fiduciary net position	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Contributions - employer (including Premium Tax Allocation)	\$ 1,661,815	\$ 1,334,868	\$ 1,264,421	\$ 1,083,344	\$ 1,006,183	\$ 995,568	\$ 906,968	\$ -	\$ -	\$ -
Contributions - member	104,066	109,129	141,121	146,707	137,663	130,842	130,476	-	-	-
Net investment income	341,602	369,986	453,649	461,308	146,656	87,174	592,817	-	-	-
Benefit payments, including refunds of member contributions	(1,486,436)	(1,441,469)	(1,306,651)	(1,258,884)	(1,169,767)	(1,176,326)	(1,081,758)	-	-	-
Administrative expense	(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	\$ 620,221	\$ 371,921	\$ 1,014,953	\$ 650,335	\$ 145,396	\$ 37,331	\$ 598,518	\$ -	\$ -	\$ -
Plan fiduciary net position - beginning	7,034,106	6,662,185	5,647,232	4,996,897	4,851,501	4,814,170	4,215,651	-	-	-
<b>Plan fiduciary net position - ending (b)</b>	<b>\$ 7,654,327</b>	<b>\$ 7,034,106</b>	<b>\$ 6,662,185</b>	<b>\$ 5,647,232</b>	<b>\$ 4,996,897</b>	<b>\$ 4,851,501</b>	<b>\$ 4,814,169</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
Employer's net pension liability - ending (a)-(b)	<u>\$ 29,710,781</u>	<u>\$ 28,156,755</u>	<u>\$ 25,911,053</u>	<u>\$ 24,429,972</u>	<u>\$ 24,911,063</u>	<u>\$ 21,934,005</u>	<u>\$ 21,555,053</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
Plan fiduciary net position as a percentage of the total pension liability	20.49%	19.99%	20.45%	18.78%	16.71%	18.11%	18.26%	0.00%	0.00%	0.00%
Covered payroll	\$ 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	2577.05%	1899.63%	1495.29%	1528.75%	1558.83%	1310.15%	1315.00%	0.00%	0.00%	0.00%
Expected average remaining service years of all participants	3.00	4.00	4.87	4.70	4.30	4.45	-	-	-	-

**Notes to Schedule:**

Benefit changes: There were no changes for FY2020.

Changes of assumptions: The discount rate changed from 3.87% to 3.57%.

\*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, 2020 Measurement Date



Schedule of Employer Contributions  
 Last 10 Fiscal Years

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Actuarially determined contribution	\$ 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	1,241,317	955,586	888,104	715,676	669,536	669,372	583,261	545,104	-	-
State provided	420,498	379,282	376,317	367,668	336,647	326,196	323,707	342,568	-	-
Contribution deficiency (excess)	<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>	<u>\$ -</u>
Covered payroll	\$ 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	144.14%	90.06%	72.97%	67.79%	62.96%	59.47%	55.33%	60.40%	N/A	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	31.5 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, 2020 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)	2016	2017	2018	2019	2020	2021	2022	2023	2024
2016	\$ 95,734	5	\$ 19,147	19,147	19,147	19,147	19,146				
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
Net increase (decrease) in pension expense							\$ (68,676)	\$ (87,822)	\$ (41,363)	\$ (3,951)	\$ 3,412

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, 2020 (c)	Balances at June 30, 2020	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2016	\$ 95,734	\$ -	\$ 95,734	\$ -	\$ -
2017	-	232,305	185,844	-	46,461
2018	-	187,047	112,227	-	74,820
2019	-	36,829	14,732	-	22,097
2020	17,068	-	3,414	13,654	-
				\$ 13,654	\$ 143,378

City of Fairmont, West Virginia Policemen's Pension and Relief Fund  
 Actuarial Information to Include in the Financial Statements  
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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	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Thereafter
Prior	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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)	(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)	-	-	-	-
Net increase (decrease) in pension expense													\$ (155,173)	\$ (35,993)	\$ 65,440	\$ -	\$ -	\$ -	\$ -

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, 2020 (c)	Balances at June 30, 2020	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$ -	\$ -	\$ -	\$ -
2011	-	-	-	-	-
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	303,310	303,310	-	-
2016	-	1,073,542	1,073,542	-	-
2017	-	683,138	581,904	-	101,234
2018	-	7,814	4,809	-	3,005
2019	350,895	-	175,448	175,447	-
2020	-	62,641	20,880	-	41,761
				\$ 175,447	\$ 146,000

City of Fairmont, West Virginia Policemen's Pension and Relief Fund  
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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	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Thereafter
Prior	\$ -	-																	-
2011	-	-																	-
2012	-	-																	-
2013	-	-																	-
2014	-	-																	-
2015	-	4.452857																	-
2016	3,517,078	4,300,163							\$ 817,894	817,894	817,894	817,894	245,502						-
2017	-	4,695,895																	-
2018	1,587,870	4,873,169									\$ 325,839	325,839	325,839	325,839	284,514				-
2019	1,527,079	4,000,000										\$ 381,770	381,770	381,770	381,770	381,769			-
2020	1,721,033	3,000,000											\$ 573,678	573,678	573,677				-
Net increase (decrease) in pension expense													\$ 1,526,789	\$ 1,281,287	\$ 1,239,960	\$ -	\$ -	\$ -	\$ -

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, 2020 (c)	Balances at June 30, 2020	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$ -	\$ -	\$ -	\$ -
2011	-	-	-	-	-
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	3,517,078	-	3,517,078	-	-
2017	-	-	-	-	-
2018	1,587,870	-	977,517	610,353	-
2019	1,527,079	-	763,540	763,539	-
2020	1,721,033	-	573,678	1,147,355	-
			\$ 2,521,247	\$ -	\$ -

City of Fairmont, West Virginia Policemen's Pension and Relief Fund  
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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				
2021	20	51	\$ 159,566	\$ 1,460,284	\$ 948,616	\$ 77,636	\$ 434,032	\$ 7,978	\$ (167,544)	\$ 7,494,761	\$ -	\$ -	\$ 17,255	\$ -	\$ 375,164	\$ 30,650,195	\$ 22,595,471	26%	
2022	19	51	\$ -	\$ 1,521,952	\$ 999,167	\$ 78,016	\$ 444,769	\$ -	\$ -	\$ 8,054,724	\$ -	\$ -	\$ 17,346	\$ -	\$ 403,165	\$ 31,123,892	\$ 22,648,657	27%	
2023	18	50	\$ -	\$ 1,535,234	\$ 999,033	\$ 78,815	\$ 457,386	\$ -	\$ -	\$ 8,475,235	\$ -	\$ -	\$ 17,530	\$ -	\$ 424,195	\$ 31,612,279	\$ 22,695,319	28%	
2024	17	50	\$ -	\$ 1,551,453	\$ 1,001,700	\$ 79,402	\$ 470,351	\$ -	\$ -	\$ 8,916,960	\$ -	\$ -	\$ 17,641	\$ -	\$ 446,284	\$ 32,110,313	\$ 22,729,428	29%	
2025	16	50	\$ -	\$ 1,587,665	\$ 1,025,293	\$ 78,700	\$ 483,672	\$ -	\$ -	\$ 9,380,885	\$ -	\$ -	\$ 17,394	\$ -	\$ 469,474	\$ 32,588,047	\$ 22,720,294	30%	
2026	15	50	\$ -	\$ 1,629,611	\$ 1,055,141	\$ 77,111	\$ 497,359	\$ -	\$ -	\$ 9,867,753	\$ -	\$ -	\$ 16,908	\$ -	\$ 493,805	\$ 33,031,771	\$ 22,653,305	31%	
2027	14	50	\$ -	\$ 1,659,543	\$ 1,064,913	\$ 76,228	\$ 518,402	\$ -	\$ -	\$ 10,378,466	\$ -	\$ -	\$ 16,610	\$ -	\$ 519,333	\$ 33,456,609	\$ 22,542,200	33%	
2028	13	50	\$ -	\$ 1,678,998	\$ 1,069,538	\$ 76,432	\$ 533,028	\$ -	\$ -	\$ 10,914,409	\$ -	\$ -	\$ 16,587	\$ -	\$ 546,130	\$ 33,880,997	\$ 22,403,871	34%	
2029	12	49	\$ -	\$ 1,722,022	\$ 1,098,607	\$ 75,359	\$ 548,056	\$ -	\$ -	\$ 11,477,126	\$ -	\$ -	\$ 16,189	\$ -	\$ 574,256	\$ 34,268,563	\$ 22,200,992	35%	
2030	11	49	\$ -	\$ 1,760,199	\$ 1,122,635	\$ 74,067	\$ 563,497	\$ -	\$ -	\$ 12,067,571	\$ -	\$ -	\$ 15,725	\$ -	\$ 603,767	\$ 34,620,695	\$ 21,933,632	37%	
2031	10	49	\$ -	\$ 1,782,336	\$ 1,128,783	\$ 74,189	\$ 579,364	\$ -	\$ -	\$ 12,687,063	\$ -	\$ -	\$ 15,631	\$ -	\$ 634,739	\$ 34,963,103	\$ 21,625,670	38%	
2032	10	48	\$ -	\$ 1,795,830	\$ 1,125,014	\$ 75,150	\$ 595,666	\$ -	\$ -	\$ 13,337,433	\$ -	\$ -	\$ 15,757	\$ -	\$ 667,261	\$ 35,311,334	\$ 21,290,883	40%	
2033	9	48	\$ -	\$ 1,803,030	\$ 1,106,120	\$ 76,462	\$ 620,448	\$ -	\$ -	\$ 14,020,451	\$ -	\$ -	\$ 15,975	\$ -	\$ 701,417	\$ 35,674,854	\$ 20,937,011	41%	
2034	9	47	\$ -	\$ 1,850,396	\$ 1,136,522	\$ 75,991	\$ 637,883	\$ -	\$ -	\$ 14,737,843	\$ -	\$ -	\$ 15,695	\$ -	\$ 737,280	\$ 36,001,099	\$ 20,510,281	43%	
2035	8	47	\$ -	\$ 1,885,629	\$ 1,155,246	\$ 74,585	\$ 655,798	\$ -	\$ -	\$ 15,490,818	\$ -	\$ -	\$ 15,173	\$ -	\$ 774,916	\$ 36,294,756	\$ 20,013,849	45%	
2036	8	46	\$ -	\$ 1,923,998	\$ 1,177,842	\$ 71,950	\$ 674,206	\$ -	\$ -	\$ 16,280,907	\$ -	\$ -	\$ 14,551	\$ -	\$ 814,405	\$ 36,545,247	\$ 19,435,384	47%	
2037	7	46	\$ -	\$ 1,958,233	\$ 1,196,661	\$ 68,453	\$ 693,119	\$ -	\$ -	\$ 17,109,863	\$ -	\$ -	\$ 13,826	\$ -	\$ 856,835	\$ 36,750,996	\$ 18,771,472	49%	
2038	6	45	\$ -	\$ 2,005,514	\$ 1,227,753	\$ 65,208	\$ 712,553	\$ -	\$ -	\$ 17,979,524	\$ -	\$ -	\$ 13,084	\$ -	\$ 899,299	\$ 36,896,543	\$ 18,004,636	51%	
2039	5	45	\$ -	\$ 2,068,947	\$ 1,276,083	\$ 60,342	\$ 732,522	\$ -	\$ -	\$ 18,891,907	\$ -	\$ -	\$ 11,922	\$ -	\$ 944,890	\$ 36,951,801	\$ 17,103,082	54%	
2040	5	45	\$ -	\$ 2,103,358	\$ 1,258,158	\$ 57,392	\$ 787,808	\$ -	\$ -	\$ 19,848,719	\$ -	\$ -	\$ 11,166	\$ -	\$ 992,712	\$ 36,954,605	\$ 16,102,008	56%	
2041	4	44	\$ -	\$ 2,155,241	\$ 1,292,307	\$ 53,107	\$ 809,827	\$ -	\$ -	\$ 20,852,597	\$ -	\$ -	\$ 10,238	\$ -	\$ 1,042,883	\$ 36,878,869	\$ 14,973,151	59%	
2042	3	43	\$ -	\$ 2,228,320	\$ 1,350,487	\$ 45,381	\$ 832,452	\$ -	\$ -	\$ 21,905,718	\$ -	\$ -	\$ 8,704	\$ -	\$ 1,095,501	\$ 36,681,874	\$ 13,671,951	63%	
2043	3	43	\$ -	\$ 2,309,979	\$ 1,385,212	\$ 36,348	\$ 888,419	\$ -	\$ -	\$ 23,009,923	\$ -	\$ -	\$ 6,950	\$ -	\$ 1,150,668	\$ 36,343,153	\$ 12,175,612	66%	
2044	2	43	\$ -	\$ 2,384,352	\$ 1,443,906	\$ 27,266	\$ 913,180	\$ -	\$ -	\$ 24,167,541	\$ -	\$ -	\$ 5,191	\$ -	\$ 1,208,505	\$ 35,863,943	\$ 10,482,706	71%	
2045	1	42	\$ -	\$ 2,440,012	\$ 1,481,811	\$ 19,578	\$ 938,623	\$ -	\$ -	\$ 25,381,237	\$ -	\$ -	\$ 3,723	\$ -	\$ 1,269,154	\$ 35,264,816	\$ 8,610,702	76%	
2046	1	41	\$ -	\$ 2,471,410	\$ 1,493,228	\$ 13,417	\$ 964,765	\$ -	\$ -	\$ 26,654,114	\$ -	\$ -	\$ 2,551	\$ -	\$ 1,332,769	\$ 34,572,626	\$ 6,583,192	81%	
2047	1	40	\$ -	\$ 2,478,430	\$ 1,435,078	\$ 9,662	\$ 1,033,690	\$ -	\$ -	\$ 27,989,434	\$ -	\$ -	\$ 1,835	\$ -	\$ 1,399,517	\$ 33,819,814	\$ 4,429,028	87%	
2048	0	39	\$ -	\$ 2,475,486	\$ 1,406,359	\$ 6,672	\$ 1,062,455	\$ -	\$ -	\$ 29,390,786	\$ -	\$ -	\$ 1,259	\$ -	\$ 1,469,570	\$ 33,016,881	\$ 2,155,266	93%	
2049	0	38	\$ -	\$ 2,461,596	\$ 1,142,545	\$ 4,612	\$ 1,092,012	\$ -	\$ 222,427	\$ 30,861,615	\$ -	\$ -	\$ 862	\$ -	\$ 1,537,609	\$ 32,177,659	\$ -	100%	
2050	0	37	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,177,659	\$ 2,438,633	\$ 20,976	\$ 3,803	\$ -	\$ 1,549,273	\$ 31,313,078	\$ -	100%	
2051	0	36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,313,078	\$ 2,412,187	\$ 16,256	\$ 2,264	\$ -	\$ 1,506,542	\$ 30,425,953	\$ -	100%	
2052	0	35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,425,953	\$ 2,379,869	\$ 12,962	\$ 1,205	\$ -	\$ 1,462,876	\$ 29,523,127	\$ -	100%	
2053	0	34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,523,127	\$ 2,342,896	\$ 10,882	\$ 517	\$ -	\$ 1,418,580	\$ 28,610,210	\$ -	100%	
2054	0	33	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,610,210	\$ 2,301,514	\$ 9,901	\$ 180	\$ -	\$ 1,373,923	\$ 27,692,700	\$ -	100%	
2055	0	32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,692,700	\$ 2,257,301	\$ 9,372	\$ -	\$ -	\$ 1,329,122	\$ 26,773,893	\$ -	100%	
2056	0	30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,773,893	\$ 2,210,050	\$ 9,028	\$ -	\$ -	\$ 1,284,340	\$ 25,857,211	\$ -	100%	
2057	0	29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,857,211	\$ 2,161,760	\$ 8,967	\$ -	\$ -	\$ 1,239,697	\$ 24,944,115	\$ -	100%	
2058	0	28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,944,115	\$ 2,112,278	\$ 8,896	\$ -	\$ -	\$ 1,195,263	\$ 24,035,996	\$ -	100%	
2059	0	27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,035,996	\$ 2,061,703	\$ 8,814	\$ -	\$ -	\$ 1,151,104	\$ 23,134,211	\$ -	100%	
2060	0	26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,134,211	\$ 2,010,228	\$ 8,721	\$ -	\$ -	\$ 1,107,283	\$ 22,239,987	\$ -	100%	

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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
2020	\$ 1,486,436	\$ -	\$ 1,486,436	\$ -	\$ 1,468,555	\$ 1,460,595
2021	\$ 1,452,015	\$ -	\$ 1,452,015	\$ -	\$ 1,400,242	\$ 1,377,597
2022	\$ 1,513,575	\$ -	\$ 1,513,575	\$ -	\$ 1,424,702	\$ 1,386,508
2023	\$ 1,526,873	\$ -	\$ 1,526,873	\$ -	\$ 1,402,849	\$ 1,350,481
2024	\$ 1,542,988	\$ -	\$ 1,542,988	\$ -	\$ 1,383,753	\$ 1,317,697
2025	\$ 1,579,097	\$ -	\$ 1,579,097	\$ -	\$ 1,382,270	\$ 1,302,054
2026	\$ 1,620,941	\$ -	\$ 1,620,941	\$ -	\$ 1,384,967	\$ 1,290,490
2027	\$ 1,650,772	\$ -	\$ 1,650,772	\$ -	\$ 1,376,726	\$ 1,268,943
2028	\$ 1,670,127	\$ -	\$ 1,670,127	\$ -	\$ 1,359,558	\$ 1,239,572
2029	\$ 1,713,196	\$ -	\$ 1,713,196	\$ -	\$ 1,361,267	\$ 1,227,712
2030	\$ 1,751,279	\$ -	\$ 1,751,279	\$ -	\$ 1,358,250	\$ 1,211,748
2031	\$ 1,773,323	\$ -	\$ 1,773,323	\$ -	\$ 1,342,457	\$ 1,184,710
2032	\$ 1,786,726	\$ -	\$ 1,786,726	\$ -	\$ 1,320,257	\$ 1,152,523
2033	\$ 1,793,837	\$ -	\$ 1,793,837	\$ -	\$ 1,293,813	\$ 1,117,228
2034	\$ 1,841,116	\$ -	\$ 1,841,116	\$ -	\$ 1,296,157	\$ 1,107,152
2035	\$ 1,876,264	\$ -	\$ 1,876,264	\$ -	\$ 1,289,313	\$ 1,089,400
2036	\$ 1,914,550	\$ -	\$ 1,914,550	\$ -	\$ 1,284,161	\$ 1,073,316
2037	\$ 1,948,705	\$ -	\$ 1,948,705	\$ -	\$ 1,275,812	\$ 1,054,810
2038	\$ 1,996,093	\$ -	\$ 1,996,093	\$ -	\$ 1,275,585	\$ 1,043,221
2039	\$ 2,059,457	\$ -	\$ 2,059,457	\$ -	\$ 1,284,605	\$ 1,039,239
2040	\$ 2,093,607	\$ -	\$ 2,093,607	\$ -	\$ 1,274,676	\$ 1,020,059
2041	\$ 2,145,623	\$ -	\$ 2,145,623	\$ -	\$ 1,275,106	\$ 1,009,371
2042	\$ 2,218,849	\$ -	\$ 2,218,849	\$ -	\$ 1,287,089	\$ 1,007,842
2043	\$ 2,300,248	\$ -	\$ 2,300,248	\$ -	\$ 1,302,397	\$ 1,008,804
2044	\$ 2,374,571	\$ -	\$ 2,374,571	\$ -	\$ 1,312,327	\$ 1,005,506
2045	\$ 2,430,409	\$ -	\$ 2,430,409	\$ -	\$ 1,311,065	\$ 993,679
2046	\$ 2,461,772	\$ -	\$ 2,461,772	\$ -	\$ 1,296,226	\$ 971,811
2047	\$ 2,468,763	\$ -	\$ 2,468,763	\$ -	\$ 1,268,821	\$ 940,981
2048	\$ 2,466,038	\$ -	\$ 2,466,038	\$ -	\$ 1,237,111	\$ 907,545
2049	\$ 2,452,137	\$ -	\$ 2,452,137	\$ -	\$ 1,200,720	\$ 871,326
2050	\$ 2,429,170	\$ 2,429,170	\$ -	\$ 548,510	\$ -	\$ 833,415
2051	\$ 2,402,727	\$ 2,402,727	\$ -	\$ 516,704	\$ -	\$ 795,930
2052	\$ 2,370,419	\$ 2,370,419	\$ -	\$ 485,482	\$ -	\$ 758,164
2053	\$ 2,333,464	\$ 2,333,464	\$ -	\$ 455,155	\$ -	\$ 720,620
2054	\$ 2,292,108	\$ 2,292,108	\$ -	\$ 425,799	\$ -	\$ 683,451
2055	\$ 2,247,929	\$ 2,247,929	\$ -	\$ 397,706	\$ -	\$ 647,176
2056	\$ 2,201,022	\$ 2,201,022	\$ -	\$ 370,864	\$ -	\$ 611,831
2057	\$ 2,152,793	\$ 2,152,793	\$ -	\$ 345,465	\$ -	\$ 577,799
2058	\$ 2,103,382	\$ 2,103,382	\$ -	\$ 321,462	\$ -	\$ 545,080
2059	\$ 2,052,889	\$ 2,052,889	\$ -	\$ 298,805	\$ -	\$ 513,659
2060	\$ 2,001,507	\$ 2,001,507	\$ -	\$ 277,454	\$ -	\$ 483,541