



**Municipal Pensions
Oversight Board**

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

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

Bolton

Submitted by:

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November 28, 2022

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

Firefighter Jason Barker
Pension Board Secretary
City of Fairmont
Firemen's Pension and Relief Fund

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

Dear Priscilla,

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

Methodology, Reliance and Certification

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

The total pension liability is based on the July 1, 2021 actuarial valuation rolled forward to June 30, 2022. The methods, assumptions, and participant data used are detailed in the July 1, 2021 actuarial valuation report with the exception of the actuarial cost method. These calculations are based on the Entry Age Normal cost method as required by GASB 67. The calculation of the Actuarially Determined Contribution (ADC) for the fiscal year ending June 30, 2022 is contained in the July 1, 2020 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 3.85%. A long-term expected rate of investment return of 4.25% has been blended with the 3.69% yield corresponding to the 20-year maturity on a municipal general obligation AA bond yield curve published on Fidelity's Fixed Income Market Data webpage as of June 30, 2022. 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.

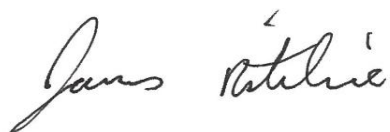
As described on page 1, the municipal bond rate is used to discount benefit payments assumed to be made from the Benefit Payment Account while the expected long-term rate of return on plan investments assumption is used to discount benefit payments made from the Accumulation Account. If, instead, the 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, 2021 actuarial valuation report contains information that is integral to the results contained herein and a copy may be provided upon request.

Sincerely,



James Ritchie, ASA, EA, FCA, MAAA



Jordan McClane, FSA, EA, FCA, MAAA



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



Net Pension Liability of the Employer

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

Total pension liability	\$ 51,382,800
Plan fiduciary net position	(6,916,797)
Employer's net pension liability	<u>\$ 44,466,003</u>
Plan fiduciary net position as a percentage of the total pension liability	13.46%

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

Inflation	2.50 percent
Salary increases	Rates vary by years of service
Single discount rate (BOY)	2.55%
Single discount rate (EOY)	3.85%
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 municipal bond rate (BOY)	1.92%
Long-term municipal bond rate (EOY)	3.69%
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019
Year Fund is projected to be fully funded	2053
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, 2021 actuarial valuation report.

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

	1% Decrease 2.85%	Current Discount Rate 3.85%	1% Increase 4.85%
Employer's net pension liability	\$ 52,440,214	\$ 44,466,003	\$ 38,078,203

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



Changes in the Net Pension Liability

	Total Pension Liability (a)	Increase (Decrease) Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at 6/30/21	\$ 59,337,273	\$ 6,765,072	\$ 52,572,201
Changes for the year:			
Service cost	1,760,639		1,760,639
Interest	1,490,799		1,490,799
Changes of benefit terms	-		-
Differences between expected and actual experience	1,293,869		1,293,869
Changes of assumptions	(10,750,671)		(10,750,671)
Contributions - employer (including Premium Tax Allocation)		2,225,678	(2,225,678)
Contributions - member		202,404	(202,404)
Net investment income		(526,103)	526,103
Benefit payments, including refunds of member contributions	(1,749,109)	(1,749,109)	-
Administrative expense		(1,145)	1,145
Other		-	-
Net Changes	<u>(7,954,473)</u>	<u>151,725</u>	<u>(8,106,198)</u>
Balances at 6/30/22	<u>\$ 51,382,800</u>	<u>\$ 6,916,797</u>	<u>\$ 44,466,003</u>
Return on Investments		(7.4%)	

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



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

Note	Description	Amount
A	Service cost	\$ 1,760,639
B	Interest on the total pension liability	1,490,799
A	Changes of benefit terms	-
C	Differences between expected and actual experience	1,052,558
C	Changes of assumptions	(2,635,715)
A	Employee contributions	(202,404)
D	Projected earnings on pension plan investments	(301,920)
C	Differences between expected and actual earnings on plan investments	(49,661)
A	Pension plan administrative expense	1,145
A	Other changes in fiduciary net position	-
Total Pension Expense		\$ 1,115,441

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	\$ 59,337,273	100%	2.55%	\$ 1,513,100
Service cost (End of Year)	1,760,639	0%	2.55%	-
Benefit payments, including refunds of employee contributions	(1,749,109)	50%	2.55%	(22,301)
Total interest on the total pension liability				\$ 1,490,799

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	\$ 6,765,072	100%	4.25%	\$ 287,516
Employer contributions	2,225,678	50%	4.25%	47,296
Employee contributions	202,404	50%	4.25%	4,301
Benefit payments, including refunds of employee contributions	(1,749,109)	50%	4.25%	(37,169)
Administrative expense and other	(1,145)	50%	4.25%	(24)
Total Projected Earnings				\$ 301,920

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



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

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

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between expected and actual experience	\$ 1,780,338	\$ -
Changes of assumptions	-	7,175,047
Net difference between projected and actual earnings on pension plan investments	77,224	-
Total	\$ 1,857,562	\$ 7,175,047

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

Year ended June 30:	
2023	\$ (2,280,404)
2024	(3,179,618)
2025	(23,066)
2026	165,603
2027	-
Thereafter	-

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



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

Total pension liability	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Service cost	\$ 1,760,639	\$ 1,578,074	\$ 1,420,130	\$ 1,407,671	\$ 1,244,719	\$ 1,383,404	\$ 868,066	\$ 812,884	\$ 767,965	\$ -
Interest	1,490,799	1,658,429	1,723,926	1,698,499	1,660,005	1,540,023	1,648,491	1,625,068	1,693,559	-
Changes of benefit terms	-	-	-	-	-	-	-	-	-	-
Differences between expected and actual experience	1,293,869	2,753,275	(889,472)	1,610,281	(517,413)	(1,654,431)	4,042	(1,337,486)	-	-
Changes of assumptions	(10,750,671)	(23,799)	2,867,323	3,507,534	(329,939)	(3,163,235)	9,497,572	593,316	1,099,407	-
Benefit payments, including refunds of member contributions	(1,749,109)	(1,651,453)	(1,605,737)	(1,526,654)	(1,524,211)	(1,529,229)	(1,547,140)	(1,595,187)	(1,563,490)	-
Net change in total pension liability	(7,954,473)	4,314,526	3,516,170	6,697,331	533,161	(3,423,468)	10,471,031	98,595	1,997,441	-
Total pension liability - beginning	59,337,273	55,022,747	51,506,577	44,809,246	44,279,085	47,699,553	37,228,522	37,129,927	35,132,486	-
Total pension liability - ending (a)	\$ 51,382,800	\$ 59,337,273	\$ 55,022,747	\$ 51,506,577	\$ 44,809,246	\$ 44,276,085	\$ 47,699,553	\$ 37,228,522	\$ 37,129,927	\$ -
Plan fiduciary net position	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Contributions - employer (including Premium Tax Allocation)	\$ 2,225,678	\$ 2,540,912	\$ 2,052,573	\$ 1,725,736	\$ 1,722,618	\$ 1,422,301	\$ 1,342,753	\$ 1,324,270	\$ 1,209,650	\$ -
Contributions - member	202,404	199,517	195,246	174,216	180,003	165,937	165,382	164,249	162,770	-
Net investment income	(526,103)	1,170,623	181,604	185,580	155,499	165,421	21,071	51,321	258,994	-
Benefit payments, including refunds of member contributions	(1,749,109)	(1,651,453)	(1,605,737)	(1,526,654)	(1,524,211)	(1,529,229)	(1,547,140)	(1,595,187)	(1,563,490)	-
Administrative expense	(1,145)	(1,264)	(972)	(862)	(2,350)	(1,777)	(1,433)	(1,189)	(1,752)	-
Other	-	20	4	(675)	463,165	218,861	25,958	752	54,076	-
Net change in plan fiduciary net position	\$ 151,725	\$ 2,258,355	\$ 822,718	\$ 557,341	\$ 994,724	\$ 441,514	\$ 6,591	\$ (55,784)	\$ 120,248	\$ -
Plan fiduciary net position - beginning	6,765,072	4,506,717	3,683,999	3,126,658	2,131,934	1,690,420	1,683,829	1,739,613	1,619,365	-
Plan fiduciary net position - ending (b)	\$ 6,916,797	\$ 6,765,072	\$ 4,506,717	\$ 3,683,999	\$ 3,126,658	\$ 2,131,934	\$ 1,690,420	\$ 1,683,829	\$ 1,739,613	\$ -
Employer's net pension liability - ending (a)-(b)	\$ 44,466,003	\$ 52,572,201	\$ 50,516,030	\$ 47,822,578	\$ 41,682,588	\$ 42,144,151	\$ 46,009,133	\$ 35,544,693	\$ 35,390,314	\$ -
Plan fiduciary net position as a percentage of the total pension liability	13.46%	11.40%	8.19%	7.15%	6.98%	4.82%	3.54%	4.25%	4.69%	N/A
Covered payroll	\$ 2,048,699	\$ 1,962,217	\$ 1,948,787	\$ 1,958,395	\$ 1,864,926	\$ 1,831,847	\$ 1,925,962	\$ 1,841,996	\$ 1,825,201	N/A
Employer's net pension liability as a percentage of covered payroll	2170.45%	2679.22%	2592.18%	2441.93%	2235.08%	2133.64%	2388.89%	1929.68%	1938.98%	N/A
Expected average remaining service years of all participants	3.00	3.00	3.00	3.00	3.45	3.59	3.80	3.73	3.86	N/A

Notes to Schedule:

Benefit changes: There were no changes for FY2022.

Changes of assumptions: The discount rate changed from 2.55% to 3.85%.

*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. A difference of \$6,558 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 \$5,730 has been included as investment income for the measurement period ending June 30, 2020.

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



Schedule of Employer Contributions
 Last 10 Fiscal Years

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Actuarially determined contribution	\$ 3,263,518	\$ 3,215,582	\$ 3,359,710	\$ 3,229,422	\$ 2,833,286	\$ 2,721,289	\$ 2,677,659	\$ 1,974,513	\$ 19,252,499	\$ 1,875,854
Contributions in relation to the actuarially determined contribution										
Employer provided	1,761,647	2,060,902	1,584,784	1,282,498	1,288,135	988,285	924,310	907,479	805,791	753,076
State provided	464,031	480,010	467,789	443,238	434,483	434,016	418,443	416,791	403,859	432,491
Contribution deficiency (excess)	<u>\$ 1,037,840</u>	<u>\$ 674,670</u>	<u>\$ 1,307,137</u>	<u>\$ 1,503,686</u>	<u>\$ 1,110,668</u>	<u>\$ 1,298,988</u>	<u>\$ 1,334,906</u>	<u>\$ 650,243</u>	<u>\$ 18,042,849</u>	<u>\$ 690,287</u>
Covered payroll	\$ 2,048,699	\$ 1,962,217	\$ 1,948,787	\$ 1,958,395	\$ 1,864,926	\$ 1,831,847	\$ 1,925,962	\$ 1,841,996	\$ 1,825,201	\$ 1,781,502
Contributions as a percentage of covered employee payroll	108.64%	129.49%	105.33%	88.12%	92.37%	77.64%	69.72%	71.89%	66.27%	66.55%

Notes to Schedule

Valuation date:

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

Methods and assumptions used to determine contribution rates:

Actuarial cost method	Entry Age Normal
Amortization method	Level Dollar
Remaining amortization period	15 to 28.5 years
Asset valuation method	Market Value
Inflation	2.50 percent
Salary increases	Rates vary by years of service
Investment rate of return	4.25%, net of pension plan investment expense, including inflation
Retirement age	Rates vary by age
Mortality	SOA PubS-2010(B) with generational projection using Scale MP-2019

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



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

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

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)	2018	2019	2020	2021	2022	2023	2024	2025	2026
2018	\$ (58,477)	5	\$ (11,695)	(11,695)	(11,695)	(11,695)	(11,697)				
2019	(53,079)	5		\$ (10,616)	(10,616)	(10,616)	(10,616)	(10,615)			
2020	(21,422)	5			\$ (4,284)	(4,284)	(4,284)	(4,284)	(4,286)		
2021	(943,347)	5				\$ (188,669)	(188,669)	(188,669)	(188,669)	(188,671)	
2022	828,023	5					\$ 165,605	165,605	165,605	165,605	165,603
Net increase (decrease) in pension expense							\$ (49,661)	\$ (37,963)	\$ (27,350)	\$ (23,066)	\$ 165,603

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, 2022 (c)	Balances at June 30, 2022	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$ -	\$ 58,477	\$ 58,477	\$ -	\$ -
2019	-	53,079	42,464	-	10,615
2020	-	21,422	12,852	-	8,570
2021	-	943,347	377,338	-	566,009
2022	828,023	-	165,605	662,418	-
				\$ 662,418	\$ 585,194

City of Fairmont, West Virginia Firemen'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	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Thereafter
Prior	-	-																	
2013	-	-																	
2014	-	-																	
2015	(1,337,486)	3.726428				\$ (358,919)	(358,919)	(358,919)	(260,729)										
2016	4,042	3.803432				\$ 1,063	1,063	1,063	853										
2017	(1,654,431)	3.592531						\$ (460,520)	(460,520)	(460,520)	(272,871)								
2018	(517,413)	3.449032							\$ (150,017)	(150,017)	(150,017)	(67,362)							
2019	1,610,281	3.000000								\$ 536,760	536,760	536,761							
2020	(889,472)	3.000000									\$ (296,491)	(296,491)	(296,490)						
2021	2,753,275	3.000000										\$ 917,758	917,758	917,759					
2022	1,293,869	3.000000											\$ 431,290	431,290	431,289				
Net increase (decrease) in pension expense													\$ 1,052,558	\$ 1,349,049	\$ 431,289	\$ -	\$ -	\$ -	\$ -

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, 2022 (c)	Balances at June 30, 2022	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$ -	\$ -	\$ -	\$ -
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	1,337,486	1,337,486	-	-
2016	4,042	-	4,042	-	-
2017	-	1,654,431	1,654,431	-	-
2018	-	517,413	517,413	-	-
2019	1,610,281	-	1,610,281	-	-
2020	-	889,472	889,472	-	-
2021	2,753,275	-	1,835,516	917,759	-
2022	1,293,869	-	431,290	862,579	-
				\$ 1,780,338	\$ -

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



Projection of Pension Plan's Fiduciary Net Position

Fiscal Year	Number (BOY)		Benefit Payment Account							Accumulation Account							Funded Ratio	
	Active	Non-Active	Assets (BOY)	Net Benefit Pmts and Expenses	Employer Contributions	Employee Contributions	84.07% 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	15.93% of Premium Tax Allocation	Investment Income	Accrued Liability		Unfunded Liability
2023	29	53	\$ 560,928	\$ 1,992,862	\$ 1,498,573	\$ 134,477	\$ 359,812	\$ 23,839	\$ (584,767)	\$ 6,355,869	\$ -	\$ -	\$ 28,453	\$ 68,199	\$ 272,157	\$ 49,747,457	\$ 42,438,012	15%
2024	28	54	\$ -	\$ 2,089,166	\$ 1,603,143	\$ 123,568	\$ 362,455	\$ -	\$ -	\$ 7,309,445	\$ -	\$ -	\$ 26,114	\$ 68,700	\$ 312,645	\$ 50,703,787	\$ 42,986,883	15%
2025	24	56	\$ -	\$ 2,212,090	\$ 1,721,772	\$ 109,613	\$ 380,705	\$ -	\$ -	\$ 7,716,904	\$ -	\$ -	\$ 23,131	\$ 72,159	\$ 329,972	\$ 51,468,682	\$ 43,326,516	16%
2026	21	58	\$ -	\$ 2,349,763	\$ 1,864,664	\$ 94,958	\$ 390,141	\$ -	\$ -	\$ 8,142,166	\$ -	\$ -	\$ 19,995	\$ 73,947	\$ 348,018	\$ 52,012,447	\$ 43,428,321	17%
2027	18	60	\$ -	\$ 2,474,803	\$ 1,990,647	\$ 81,624	\$ 402,532	\$ -	\$ -	\$ 8,584,126	\$ -	\$ -	\$ 17,147	\$ 76,296	\$ 366,790	\$ 52,348,295	\$ 43,303,936	17%
2028	16	61	\$ -	\$ 2,620,281	\$ 2,136,056	\$ 66,285	\$ 417,940	\$ -	\$ -	\$ 9,044,359	\$ -	\$ -	\$ 13,865	\$ 79,216	\$ 386,343	\$ 52,422,815	\$ 42,899,032	18%
2029	12	63	\$ -	\$ 2,727,890	\$ 2,239,395	\$ 54,758	\$ 433,737	\$ -	\$ -	\$ 9,523,783	\$ -	\$ -	\$ 11,404	\$ 82,210	\$ 406,729	\$ 52,299,684	\$ 42,275,558	19%
2030	10	64	\$ -	\$ 2,809,194	\$ 2,318,797	\$ 45,944	\$ 444,453	\$ -	\$ -	\$ 10,024,126	\$ -	\$ -	\$ 9,518	\$ 84,242	\$ 427,997	\$ 52,020,461	\$ 41,474,578	20%
2031	8	64	\$ -	\$ 2,881,742	\$ 2,389,100	\$ 37,204	\$ 455,438	\$ -	\$ -	\$ 10,545,883	\$ -	\$ -	\$ 7,656	\$ 86,324	\$ 450,176	\$ 51,582,115	\$ 40,492,076	21%
2032	7	64	\$ -	\$ 2,921,322	\$ 2,422,950	\$ 31,674	\$ 466,698	\$ -	\$ -	\$ 11,090,039	\$ -	\$ -	\$ 6,475	\$ 88,458	\$ 473,323	\$ 51,038,348	\$ 39,380,053	23%
2033	6	64	\$ -	\$ 2,930,914	\$ 2,416,910	\$ 28,255	\$ 485,749	\$ -	\$ -	\$ 11,658,295	\$ -	\$ -	\$ 5,749	\$ 92,069	\$ 497,535	\$ 50,436,091	\$ 38,182,443	24%
2034	5	63	\$ -	\$ 2,931,382	\$ 2,393,609	\$ 25,061	\$ 512,712	\$ -	\$ -	\$ 12,253,648	\$ -	\$ -	\$ 5,093	\$ 97,179	\$ 522,931	\$ 49,782,711	\$ 36,903,860	26%
2035	4	62	\$ -	\$ 2,961,901	\$ 2,416,784	\$ 19,747	\$ 525,370	\$ -	\$ -	\$ 12,878,851	\$ -	\$ -	\$ 3,991	\$ 99,579	\$ 549,529	\$ 49,027,875	\$ 35,495,925	28%
2036	3	62	\$ -	\$ 2,966,884	\$ 2,385,713	\$ 15,681	\$ 565,490	\$ -	\$ -	\$ 13,531,950	\$ -	\$ -	\$ 3,139	\$ 107,183	\$ 577,428	\$ 48,205,214	\$ 33,985,514	29%
2037	3	61	\$ -	\$ 2,959,448	\$ 2,357,818	\$ 12,993	\$ 588,637	\$ -	\$ -	\$ 14,219,700	\$ -	\$ -	\$ 2,571	\$ 111,570	\$ 606,738	\$ 47,335,217	\$ 32,394,638	32%
2038	2	60	\$ -	\$ 2,951,446	\$ 2,338,721	\$ 9,608	\$ 603,117	\$ -	\$ -	\$ 14,940,579	\$ -	\$ -	\$ 1,878	\$ 114,315	\$ 637,418	\$ 46,410,482	\$ 30,716,292	34%
2039	1	59	\$ -	\$ 2,927,838	\$ 2,284,898	\$ 7,134	\$ 635,806	\$ -	\$ -	\$ 15,694,190	\$ -	\$ -	\$ 1,389	\$ 120,511	\$ 669,566	\$ 45,451,612	\$ 28,965,956	36%
2040	1	58	\$ -	\$ 2,890,259	\$ 2,233,001	\$ 5,802	\$ 651,456	\$ -	\$ -	\$ 16,485,656	\$ -	\$ -	\$ 1,121	\$ 123,477	\$ 703,261	\$ 44,479,822	\$ 27,166,307	39%
2041	1	56	\$ -	\$ 2,852,572	\$ 2,180,874	\$ 4,201	\$ 667,497	\$ -	\$ -	\$ 17,313,515	\$ -	\$ -	\$ 810	\$ 126,517	\$ 738,502	\$ 43,493,353	\$ 25,314,009	42%
2042	1	55	\$ -	\$ 2,811,358	\$ 2,119,489	\$ 2,466	\$ 689,403	\$ -	\$ -	\$ 18,179,344	\$ -	\$ -	\$ 478	\$ 130,669	\$ 775,380	\$ 42,493,692	\$ 23,407,821	45%
2043	0	53	\$ -	\$ 2,758,231	\$ 2,050,106	\$ 1,721	\$ 706,404	\$ -	\$ -	\$ 19,085,871	\$ -	\$ -	\$ 335	\$ 133,891	\$ 813,972	\$ 41,499,988	\$ 21,465,919	48%
2044	0	52	\$ -	\$ 2,701,179	\$ 1,957,479	\$ 1,152	\$ 742,548	\$ -	\$ -	\$ 20,034,069	\$ -	\$ -	\$ 225	\$ 140,742	\$ 854,412	\$ 40,517,441	\$ 19,487,993	52%
2045	0	50	\$ -	\$ 2,641,255	\$ 1,858,533	\$ 721	\$ 782,001	\$ -	\$ -	\$ 21,029,448	\$ -	\$ -	\$ 138	\$ 148,220	\$ 896,871	\$ 39,550,491	\$ 17,475,814	56%
2046	0	48	\$ -	\$ 2,577,167	\$ 1,762,584	\$ 538	\$ 814,045	\$ -	\$ -	\$ 22,074,677	\$ -	\$ -	\$ 103	\$ 154,294	\$ 941,421	\$ 38,606,361	\$ 15,435,866	60%
2047	0	47	\$ -	\$ 2,512,507	\$ 1,649,344	\$ 336	\$ 862,827	\$ -	\$ -	\$ 23,170,495	\$ -	\$ -	\$ 63	\$ 163,540	\$ 988,186	\$ 37,686,247	\$ 13,363,963	65%
2048	0	45	\$ -	\$ 2,446,772	\$ 1,562,471	\$ 172	\$ 884,129	\$ -	\$ -	\$ 24,322,284	\$ -	\$ -	\$ 32	\$ 167,578	\$ 1,037,222	\$ 36,792,542	\$ 11,265,426	69%
2049	0	44	\$ -	\$ 2,379,700	\$ 1,473,608	\$ 129	\$ 905,963	\$ -	\$ -	\$ 25,527,116	\$ -	\$ -	\$ 24	\$ 171,716	\$ 1,088,514	\$ 35,928,977	\$ 9,141,607	75%
2050	0	42	\$ -	\$ 2,312,581	\$ 1,052,955	\$ 97	\$ 1,259,529	\$ -	\$ -	\$ 26,787,370	\$ -	\$ -	\$ 18	\$ 238,731	\$ 1,143,484	\$ 35,096,931	\$ 6,927,328	80%
2051	0	40	\$ -	\$ 2,246,315	\$ 955,477	\$ -	\$ 1,290,838	\$ -	\$ -	\$ 28,169,603	\$ -	\$ -	\$ -	\$ 244,665	\$ 1,202,353	\$ 34,296,166	\$ 4,679,545	86%
2052	0	39	\$ -	\$ 2,179,495	\$ 744,128	\$ -	\$ 1,435,367	\$ -	\$ -	\$ 29,616,621	\$ -	\$ -	\$ -	\$ 272,059	\$ 1,264,427	\$ 33,529,593	\$ 2,376,486	93%
2053	0	38	\$ -	\$ 2,113,065	\$ 453,536	\$ -	\$ 1,659,522	\$ -	\$ 7	\$ 31,153,107	\$ -	\$ -	\$ -	\$ 314,545	\$ 1,330,621	\$ 32,798,266	\$ -	100%
2054	0	36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,798,266	\$ 2,046,935	\$ 1,109	\$ -	\$ -	\$ 1,350,905	\$ 32,103,345	\$ -	100%
2055	0	35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,103,345	\$ 1,981,048	\$ 1,105	\$ -	\$ -	\$ 1,322,756	\$ 31,446,158	\$ -	100%
2056	0	34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,446,158	\$ 1,915,199	\$ 1,100	\$ -	\$ -	\$ 1,296,210	\$ 30,828,269	\$ -	100%
2057	0	32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,828,269	\$ 1,849,070	\$ 1,061	\$ -	\$ -	\$ 1,271,340	\$ 30,251,600	\$ -	100%
2058	0	31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,251,600	\$ 1,782,433	\$ 1,054	\$ -	\$ -	\$ 1,248,233	\$ 29,718,454	\$ -	100%
2059	0	30	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,718,454	\$ 1,714,965	\$ 1,046	\$ -	\$ -	\$ 1,226,992	\$ 29,231,527	\$ -	100%
2060	0	28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,231,527	\$ 1,646,418	\$ 1,001	\$ -	\$ -	\$ 1,207,739	\$ 28,793,849	\$ -	100%
2061	0	27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,793,849	\$ 1,576,684	\$ 989	\$ -	\$ -	\$ 1,190,603	\$ 28,408,757	\$ -	100%
2062	0	26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,408,757	\$ 1,505,657	\$ 976	\$ -	\$ -	\$ 1,175,730	\$ 28,079,806	\$ -	100%

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



Projection of Pension Plan's Fiduciary Net Position

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
2022	\$ 1,749,109	\$ -	\$ 1,749,109	\$ -	\$ 1,717,704	\$ 1,716,398
2023	\$ 1,991,687	\$ -	\$ 1,991,687	\$ -	\$ 1,886,322	\$ 1,882,021
2024	\$ 2,087,962	\$ -	\$ 2,087,962	\$ -	\$ 1,907,130	\$ 1,899,889
2025	\$ 2,210,886	\$ -	\$ 2,210,886	\$ -	\$ 1,947,544	\$ 1,937,200
2026	\$ 2,348,544	\$ -	\$ 2,348,544	\$ -	\$ 1,995,183	\$ 1,981,568
2027	\$ 2,473,569	\$ -	\$ 2,473,569	\$ -	\$ 2,026,615	\$ 2,009,725
2028	\$ 2,619,032	\$ -	\$ 2,619,032	\$ -	\$ 2,069,432	\$ 2,049,065
2029	\$ 2,726,643	\$ -	\$ 2,726,643	\$ -	\$ 2,077,790	\$ 2,054,213
2030	\$ 2,807,933	\$ -	\$ 2,807,933	\$ -	\$ 2,063,589	\$ 2,037,071
2031	\$ 2,880,484	\$ -	\$ 2,880,484	\$ -	\$ 2,041,574	\$ 2,012,275
2032	\$ 2,920,050	\$ -	\$ 2,920,050	\$ -	\$ 1,995,966	\$ 1,964,330
2033	\$ 2,929,629	\$ -	\$ 2,929,629	\$ -	\$ 1,931,250	\$ 1,897,750
2034	\$ 2,930,103	\$ -	\$ 2,930,103	\$ -	\$ 1,862,825	\$ 1,827,728
2035	\$ 2,960,629	\$ -	\$ 2,960,629	\$ -	\$ 1,815,249	\$ 1,778,341
2036	\$ 2,965,600	\$ -	\$ 2,965,600	\$ -	\$ 1,753,589	\$ 1,715,323
2037	\$ 2,958,152	\$ -	\$ 2,958,152	\$ -	\$ 1,686,937	\$ 1,647,616
2038	\$ 2,950,159	\$ -	\$ 2,950,159	\$ -	\$ 1,622,509	\$ 1,582,280
2039	\$ 2,926,561	\$ -	\$ 2,926,561	\$ -	\$ 1,552,252	\$ 1,511,464
2040	\$ 2,888,972	\$ -	\$ 2,888,972	\$ -	\$ 1,477,785	\$ 1,436,765
2041	\$ 2,851,298	\$ -	\$ 2,851,298	\$ -	\$ 1,406,610	\$ 1,365,486
2042	\$ 2,810,075	\$ -	\$ 2,810,075	\$ -	\$ 1,336,940	\$ 1,295,880
2043	\$ 2,756,986	\$ -	\$ 2,756,986	\$ -	\$ 1,265,004	\$ 1,224,289
2044	\$ 2,699,927	\$ -	\$ 2,699,927	\$ -	\$ 1,194,737	\$ 1,154,526
2045	\$ 2,640,021	\$ -	\$ 2,640,021	\$ -	\$ 1,126,655	\$ 1,087,079
2046	\$ 2,575,953	\$ -	\$ 2,575,953	\$ -	\$ 1,060,192	\$ 1,021,396
2047	\$ 2,511,289	\$ -	\$ 2,511,289	\$ -	\$ 996,796	\$ 958,860
2048	\$ 2,445,577	\$ -	\$ 2,445,577	\$ -	\$ 936,169	\$ 899,171
2049	\$ 2,378,502	\$ -	\$ 2,378,502	\$ -	\$ 878,091	\$ 842,106
2050	\$ 2,311,409	\$ -	\$ 2,311,409	\$ -	\$ 822,955	\$ 788,029
2051	\$ 2,245,171	\$ -	\$ 2,245,171	\$ -	\$ 770,924	\$ 737,084
2052	\$ 2,178,352	\$ -	\$ 2,178,352	\$ -	\$ 721,362	\$ 688,649
2053	\$ 2,111,923	\$ -	\$ 2,111,923	\$ -	\$ 674,476	\$ 642,910
2054	\$ 2,045,826	\$ 2,045,826	\$ -	\$ 528,928	\$ -	\$ 599,713
2055	\$ 1,979,943	\$ 1,979,943	\$ -	\$ 491,026	\$ -	\$ 558,894
2056	\$ 1,914,099	\$ 1,914,099	\$ -	\$ 455,345	\$ -	\$ 520,288
2057	\$ 1,848,009	\$ 1,848,009	\$ -	\$ 421,700	\$ -	\$ 483,710
2058	\$ 1,781,379	\$ 1,781,379	\$ -	\$ 389,924	\$ -	\$ 448,993
2059	\$ 1,713,919	\$ 1,713,919	\$ -	\$ 359,864	\$ -	\$ 415,984
2060	\$ 1,645,417	\$ 1,645,417	\$ -	\$ 331,396	\$ -	\$ 384,560
2061	\$ 1,575,695	\$ 1,575,695	\$ -	\$ 304,416	\$ -	\$ 354,620
2062	\$ 1,504,681	\$ 1,504,681	\$ -	\$ 278,846	\$ -	\$ 326,090