

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



#### Submitted by:

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December 3, 2021

Mr, Nate Stransberry City Manager City of Weston 102 W. 2nd Steet Weston, WV 26452 Retiree Kenneth James
Pension Board Secretary
City of Weston
Firemen's Pension and Relief Fund

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

Dear Nate,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Weston Firemen'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. The discount rate assumption may have changed if a blended rate was used for GASB purposes. 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 ended June 30, 2021 is contained in the July 1, 2019 actuarial valuation report.

Based on the information provided by the Municipal Pensions Oversight Board (MPOB), we understand that the plan sponsor has not made the entire policy contribution in recent years. For this reason, the projections to determine the blended discount rate assume level dollar contributions equal to the average of the five most recent employer contributions for all future years until the plan is fully funded.

The included calculations are based on the valuation discount rate of 6.25%. The plan's expected gross rate of investment return of 6.25% 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. The development of the blended discount rate is included within this report. The discount rate did not change as a result of blending.

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

#### Methodology, Reliance and Certification (cont.)

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

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

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

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

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

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

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

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



Mr, Nate Stransberry December 3, 2021 Page 3

#### Methodology, Reliance and Certification (cont.)

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

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

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

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

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

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

The undersigned enrolled actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. The July 1, 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



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	\$	1,878,617
Plan fiduciary net position	. <u></u>	(1,632,417)
Employer's net pension liability	\$	246,200
	-	
Plan fiduciary net position as a percentage of the total pension liability		86.89%

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) 6.50% Single discount rate (EOY) 6.25%

Investment rate of return (BOY) 6.50%, net of pension plan investment expense, including inflation Investment rate of return (EOY) 6.25%, net of pension plan investment expense, including inflation

Long-term municpal bond rate (BOY) 2.45% Long-term municpal 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
Year assets are expected to be depleted
N/A

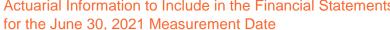
for a closed plan

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

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

	Current									
	Decrease 5.25%	Dis	count Rate 6.25%	1% Increase 7.25%						
Employer's net pension liability	\$ 509,050	\$	246,200	\$	31,945					

# City of Weston, West Virginia Firemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements





### Changes in the Net Pension Liability

	ı	ncrea	se (Decrease	e)		
	tal Pension Liability (a)		n Fiduciary et Position (b)		et Pension Liability (a) - (b)	
Balances at 6/30/20	\$ 1,966,224	\$	1,348,579	\$	617,645	
Changes for the year:						
Service cost	34,672				34,672	
Interest	124,715				124,715	
Changes of benefit terms	-				-	
Differences between expected and actual experience	(89,508)				(89,508)	
Changes of assumptions	(62,414)				(62,414)	
Contributions - employer (including Premium Tax Allocation)			122,185		(122,185)	
Contributions - member			5,377		(5,377)	
Net investment income			251,348		(251,348)	
Benefit payments, including refunds of member contributions	(95,072)		(95,072)		-	
Administrative expense			-		-	
Other	 		-		-	
Net Changes	(87,607)		283,838		(371,445)	
Balances at 6/30/21	\$ 1,878,617	\$	1,632,417	\$	246,200	
Return on Investments			18.4%			





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

Note	Description	l	Amount
Α	Service cost	\$	34,672
В	Interest on the total pension liability		124,715
Α	Changes of benefit terms		-
С	Differences between expected and actual experience		(12,722)
С	Changes of assumptions		(17,407)
Α	Employee contributions		(5,377)
D	Projected earnings on pension plan investments		(88,714)
С	Differences between expected and actual earnings on plan investments		(41,605)
Α	Pension plan administrative expense		-
Α	Other changes in fiduciary net position		-
	Total Pension Expense	\$	(6,438)

#### Notes:

A Provided in the Changes in Net Pension Liability exhibit.

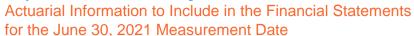
B Based on the following calculation:

	Δ	mount for Period (a)	Portion of Period (b)	Interest Rate (c)	E	rojected arnings x (b) x (c)
Beginning total pension liability	\$	1,966,224	100%	6.50%	\$	127,805
Service cost (End of Year)		34,672	0%	6.50%		-
Benefit payments, including refunds of employee contributions		(95,072)	50%	6.50%		(3,090)
Total interest on the total pension liability					\$	124,715

C Provided in the Schedules of Deferrals.

D Based on the following calculation:

	A	Amount for	Portion of	Projected	Pr	ojected
		Period	Period	Rate of Return	E	arnings
		(a)	(b)	(c)	(a) :	x (b) x (c)
Beginning plan fiduciary net position	\$	1,348,579	100%	6.50%	\$	87,658
Employer contributions		122,185	50%	6.50%		3,971
Employee contributions		5,377	50%	6.50%		175
Benefit payments, including refunds of employee contributions		(95,072)	50%	6.50%		(3,090)
Administrative expense and other		-	50%	6.50%		-
Total Projected Earnings					\$	88,714





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:

	ed Outflows esources	erred Inflows Resources
Differences between expected and actual experience	\$ 30,911	\$ 88,462
Changes of assumptions	40,873	117,498
Net difference between projected and actual earnings	-	
on pension plan investments		107,467
Total	\$ 71,784	\$ 313,427

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	\$ (64,790)
2023	(55,065)
2024	(56,177)
2025	(65,611)
2026	-
Thereafter	-

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	20	13		2012
Service cost	\$	34,672	\$	63,274	\$	64,694	\$	71,739	\$	65,658	\$	60,572	\$	39,516	\$	24,545	\$	-	\$	-
Interest		124,715		119,253		109,674		105,196		100,054		91,861		88,148		84,614		-		-
Changes of benefit terms		-		-		-		-		-		-		-		-		-		-
Differences between expected and actual experience		(89,508)		(10,259)		41,409		(11,687)		26,503		(15,024)		10,745		-		-		-
Changes of assumptions		(62,414)		-		(135,133)		-		-		146,461		-		-		-		-
Benefit payments, including refunds of member contributions		(95,072)		(81,411)		(66,343)		(66,527)		(76,201)		(71,031)		(61,082)		(60,393)		-		-
Net change in total pension liability		(87,607)		90,857		14,301		98,721		116,014		212,839		77,327		48,766		-		-
Total pension liability - beginning		1,966,224		1,875,367		1,861,066		1,762,345		1,646,331		1,433,492		1,356,165		1,307,399		-		-
Total pension liability - ending (a)	\$	1,878,617	\$	1,966,224	\$	1,875,367	\$	1,861,066	\$	1,762,345	\$	1,646,331	\$	1,433,492	\$	1,356,165	\$	-	\$	-
Plan fiduciary net position		2021		2020		2019		2018		2017		2016		2015		2014	20	13		2012
Contributions - employer (including Premium Tax Allocation)	\$	122,185	\$	65,966	\$	52,519	\$	215,624	s	104,549	\$	163,034	\$	89,890	\$	108,253	\$		\$	_
Contributions - member	Ψ.	5,377	Ψ.	16,845	Ψ	7.786	Ψ	18,231	Ψ.	14,816	Ψ	14,684	Ψ	14,642	Ψ.	7.124	Ÿ		Ψ	_
Net investment income		251,348		1,593		127,346		108,518		85,983		5,040		16,027		75,586				-
Benefit payments, including refunds of member contributions		(95,072)		(81,411)		(66,343)		(66,527)		(76,201)		(71,031)		(61,082)		(60,393)		-		-
Administrative expense		-		-		-		(9,291)		(8,848)		(8,248)		(8,108)		(6,930)		-		-
Other		-		-		-		-		-		-		-		-				-
Net change in plan fiduciary net position	\$	283,838	\$	2,993	\$	121,308	\$	266,555	\$	120,299	\$	103,479	\$	51,369	\$	123,640	\$		\$	-
Plan fiduciary net position - beginning		1,348,579		1,345,586		1,224,278		957,723		837,424		828,494		777,125		653,485		-		-
Plan fiduciary net position - ending (b)	\$	1,632,417	\$	1,348,579	\$	1,345,586	\$	1,224,278	\$	957,723	\$	931,973	\$	828,494	\$	777,125	\$	-	\$	-
Employer's net pension liability - ending (a)-(b)	\$	246,200	\$	617,645	\$	529,781	\$	636,788	\$	804,622	\$	714,358	\$	604,998	\$	579,040	\$		\$	-
Plan fiduciary net position as a percentage of the																				
total pension liability		86.89%		68.59%		71.75%		65.78%		54.34%		56.61%		57.80%		57.30%		N/A		N/A
Covered payroll	\$	100,485	\$	176,788	\$	174,234	\$	174,985	\$	160,759	\$	185,386	\$	108,742	\$	65,816		N/A		N/A
Employer's net pension liability as a percentage of																				
covered payroll		245.01%		349.37%		304.06%		363.91%		500.52%		385.34%		556.36%		879.79%		N/A		N/A
Expected average remaining service years of all participants		5.00		6.00		6.00		7.97		8.13		8.32		5.01		N/A		N/A		N/A

#### Notes to Schedule:

There were no changes for FY2021. Benefit changes:

The discount rate changed from 6.50% to 6.25%. 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. Changes of assumptions:

\*Market value of assets as of July 1, 2016, excludes \$94,549, included in the market value of assets as of June 30, 2016, used for the actuarial valuation report for the fiscal year end June 30, 2016

Actuarial Information to Include in the Financial Statements for the June 30, 2021 Measurement Date

Schedule of Employer Contributions

Last 10 Fiscal Years



	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Actuarially determined contribution	\$ 97,093	\$ 97,269	\$ 112,612	\$ 101,428	\$ 97,372	\$ 97,587	\$ 62,233	\$ 56,998	\$ 80,381	\$ -
Contributions in relation to the actuarially determined contribution										
Employer provided	72,780	18,000	51,887	102,137	61,936	93,936	57,009	71,000	74,019	-
State provided	 49,405	47,966	 632	 37,058	 42,613	 69,098	32,881	 37,253	 51,789	
Contribution deficiency (excess)	\$ (25,092)	\$ 31,303	\$ 60,093	\$ (37,767)	\$ (7,177)	\$ (65,447)	\$ (27,657)	\$ (51,255)	\$ (45,427)	\$ -
Covered payroll	\$ 100,485	\$ 176,788	\$ 174,234	\$ 174,985	\$ 160,759	\$ 185,386	\$ 108,742	\$ 65,816	\$ 131,553	N/A
Contributions as a percentage of covered employee payroll	121.60%	37.31%	30.14%	79.55%	65.03%	87.94%	82.66%	164.48%	95.63%	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 6.50%, 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

## 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.

Year	betw and A on I	oifferences een Projected ctual Earnings Pension Plan evestments	Recognition Period (Years)	2017	2018	2019	2020	2021	2022	2023	2024	2025
2017	\$	(34,723)	5	\$ (6,945)	(6,945)	(6,945)	(6,945)	(6,943)				
2018		(48,624)	5		\$ (9,725)	(9,725)	(9,725)	(9,725)	(9,724)			
2019		(47,964)	5			\$ (9,593)	(9,593)	(9,593)	(9,593)	(9,592)		
2020		85,915	5				\$ 17,183	17,183	17,183	17,183	17,183	
2021		(162,634)	5					\$ (32,527)	(32,527)	(32,527)	(32,527)	(32,52
et increa	se (deci	ease) in pension	expense					\$ (41,605)	\$ (34,661)	\$ (24,936)	\$ (15,344)	\$ (32,52

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

						Balan June 3		
Year	Less than	nt Earnings n Projected a)	estment Earnings ter Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)		Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)	
2017	\$		\$ 34,723	\$ 34,72	3 \$	-	\$	-
2018		-	48,624	38,90	)	-		9,724
2019		-	47,964	28,779	9	-		19,185
2020		85,915	-	34,36	3	51,549		-
2021		-	162,634	32,52	7	-		130,107
					\$	51,549	\$	159,016

Actuarial Information to Include in the Financial Statements

for the June 30, 2021 Measurement Date

## B

Schedule of Differences between Expected and Actual Experience

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

Year	Differences between Expected and Actual Experience	Recognition Period (Years)	Prior	2012	2013	2014	;	Increas	rease) in I	n Expense	ng from th	cognition o	erences be	tween Exp	ected a	and Actual Exp	2023	2024	2025		2026	There	after
Prior	-	-																			-		_
2012	-	-																					
2013	-	-																					
2014	-	-																					
2015	10,745	5.009732					\$	2,145	2,145	2,145	2,145	2,145	20										
2016	(15,024)	8.322571							\$ (1,805)	(1,805)	(1,805)	(1,805)	(1,805)	(1,8	(05	(1,805)	(1,805)	(584)					
2017	26,503	8.133136								\$ 3,259	3,259	3,259	3,259	3,2	59	3,259	3,259	3,259	43	31			
2018	(11,687)	7.971909									\$ (1,466)	(1,466)	(1,466)	(1,4	66)	(1,466)	(1,466)	(1,466)	(1,42	25)			
2019	41,409	6.000000										\$ 6,902	6,902	6,9	102	6,902	6,902	6,899					
2020	(10,259)	6.000000											\$ (1,710)	(1,7	10)	(1,710)	(1,710)	(1,710)	(1,70	9)			
2021	(89,508)	5.000000												\$ (17,9	102)	(17,902)	(17,902)	(17,902)	(17,90	00)			
Net increas	e (decrease) in per	nsion expense												\$ (12,7	22)	\$ (12,722)	\$ (12,722)	\$ (11,504)	\$ (20,60	3) \$	-	\$	-

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

					Balan June 3		
Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense Through June 30, 2021 (c)	Ou Re	eferred atflows of esources a) - (c)	In Re	eferred flows of sources (b) - (c)
Prior	\$ -	\$	\$ -	\$		\$	
2012	-	-	-		-		-
2013	-		-		-		-
2014			-				-
2015	10,745	-	10,745		-		-
2016		15,024	10,830				4,194
2017	26,503	-	16,295		10,208		-
2018		11,687	5,864				5,823
2019	41,409		20,706		20,703		-
2020	-	10,259	3,420		-		6,839
2021	-	89,508	17,902		-		71,606
				\$	30,911	\$	88,462

Actuarial Information to Include in the Financial Statements

for the June 30, 2021 Measurement Date

## B

#### Schedule of Changes of Assumptions

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

		Recognition						Increase	(Decrease) in P	ension Expense	e Arising from the	e Effects of Cha	inges of Assumpt	ions					
Year	Changes of Assumptions	Period (Years)	Prior	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	The
Prior	\$ -	-																	
2012	-	-																	
2013	-	-																	
2014	-	-																	
2015	-	5.009732																	
2016	146,461	8.322571						\$ 17,598	17,598	17,598	17,598	17,598	17,598	17,598	17,598	5,677			
2017	-	8.133136																	
2018	-	7.971909																	
2019	(135,133)	6.000000									\$ (22,522)	(22,522)	(22,522)	(22,522)	(22,522)	(22,523)			
2020	-	6.000000																	
2021	(62,414)	5.000000											\$ (12,483)	(12,483)	(12,483)	(12,483)	(12,482)		
let increas	e (decrease) in pen	sion expense											\$ (17,407)	(17,407)	\$ (17,407)	\$ (29,329)	\$ (12,482)	\$ -	\$

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

					ices at 60, 2021
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)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$ -	\$ -	\$ -	\$ -
2012	-	-	-	-	-
2013	-	-	-	-	-
2014		-	-	-	-
2015	-	-	-	-	-
2016	146,461	-	105,588	40,873	-
2017		-	-	-	-
2018		-	-	-	-
2019	-	135,133	67,566	-	67,567
2020		-	-	-	
2021	-	62,414	12,483	-	49,931
				\$ 40,873	\$ 117,498

## City of Weston, West Virginia Firemen'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



		G		lormal Co BOY)	st		Emp		Contribu BOY)	tions			Emp		r Normal ( BOY)	Cost	t			Expenses (MOY)	5				Emple		Contribu MOY)	tions	;		Prem		ax Alloc MOY)	ation	
Fiscal Year		urrent embers		uture mbers		Total	Current lembers		uture mbers		Total		Current embers		uture embers		Total		rrent mbers	Future Members		Te	otal		Current Members		uture mbers		Total		Current lembers		uture mbers	T	otal
2021	\$	34,099	\$	-	\$	34,099	\$ 5,377	\$	-	\$	5,377	\$	28,722	\$	-	\$	28,722	\$	-	\$ -	9	\$	-	\$	50,607	\$	-	\$	50,607	\$	49,405	\$	-	\$	49,405
2022	\$	33,591	\$	929	\$	34,520	\$ 6,672	\$	234	\$	6,906	\$	26,919	\$	695	\$	27,614	\$	-	\$ -	9	\$	-	\$	27,748	\$	716	\$	28,464	\$	50,154	\$	-	\$	50,154
2023	\$	33,203	\$	1,845	\$	35,048	\$ 6,542	\$	466	\$	7,008	\$	26,661	\$	1,379	\$	28,040	\$	-	\$ -	9	\$	-	\$	27,482	\$	1,421	\$	28,903	\$	50,511	\$	-	\$	50,511
2024	\$	32,981	\$	2,762	\$	35,743	\$ 6,444	\$	700	\$	7,144	\$	26,537	\$	2,062	\$	28,599	\$	-	\$ -	\$	\$	-	\$	27,354	\$	2,125	\$	29,479	\$	52,624	\$	-	\$	52,624
2025	\$	32,924	\$	3,691	\$	36,615	\$ 6,376	\$	941	\$	7,317	\$	26,548	\$	2,750	\$	29,298	\$	-	\$ -	9	\$	-	\$	27,365	\$	2,835	\$	30,200	\$	53,805	\$	-	\$	53,805
2026	\$	32,863	\$	4,621	\$	37,484	\$ 6,305	\$	1,184	\$	7,489	\$	26,558	\$	3,437	\$	29,995	\$	-	\$ -	9	\$	-	\$	27,375	\$	3,543	\$	30,918	\$	55,015	\$	-	\$	55,015
2027	\$	32,822	\$	5,530	\$	38,352	\$ 6,232	\$	1,428	\$	7,660	\$	26,590	\$	4,102	\$	30,692	\$	-	\$ -	9	\$	-	\$	27,409	\$	4,228	\$	31,637	\$	56,365	\$	-	\$	56,365
2028	\$	32,841	\$	6,378	\$	39,219	\$ 6,155	\$	1,676	\$	7,831	\$	26,686	\$	4,702	\$	31,388	\$	-	\$ -	9	\$	-	\$	27,507	\$	4,847	\$	32,354	\$	4,248	\$	-	\$	4,248
2029	\$	29,205	\$	6,453	\$	35,658	\$ 5,491	\$	1,739	\$	7,230	\$	23,714	\$	4,714	\$	28,428	\$	-	\$ -	\$	\$	-	\$	24,444	\$	4,859	\$	29,303	\$	-	\$	-	\$	-
2030	\$	24,324	\$	6,167	\$	30,491	\$ 4,640	\$	1,684	\$	6,324	\$	19,684	\$	4,483	\$	24,167	\$	-	\$ -	\$	\$	-	\$	20,290	\$	4,621	\$	24,911	\$	-	\$	-	\$	-
2031	\$	22,496	\$	6,415	\$	28,911	\$ 4,296	\$	1,764	\$	6,060	\$	18,200	\$	4,651	\$	22,851	\$	-	\$ -	\$	\$	-	\$	18,760	\$	4,794	\$	23,554	\$	-	\$	-	\$	-
2032	\$	21,440	\$	6,799	\$	28,239	\$ 4,082	\$	1,877	\$	5,959	\$	17,358	\$	4,922	\$	22,280	\$	-	\$ -	9	\$	-	\$	17,893	\$	5,073	\$	22,966	\$	-	\$	-	\$	-
2033	\$	20,890	\$	7,282	\$	28,172	\$ 3,950	\$	2,018	\$	5,968	\$	16,940	\$	5,264	\$	22,204	\$	-	\$ -	9	\$	-	\$	17,461	\$	5,426	\$	22,887	\$	-	\$	-	\$	-
2034	\$	20,526	\$	7,806	\$	28,332	\$ 3,850	\$	2,171	\$	6,021	\$	16,676	\$	5,635	\$	22,311	\$	-	\$ -	9	\$	-	\$	17,190	\$	5,808	\$	22,998	\$	-	\$	-	\$	-
2035	\$	20,333	\$	8,350	\$	28,683	\$ 3,775	\$	2,335	\$	6,110	\$	16,558	\$	6,015	\$	22,573	\$	-	\$ -	9	\$	-	\$	17,068	\$	6,200	\$	23,268	\$	-	\$	-	\$	-
2036	\$	20,252	\$	8,867	\$	29,119	\$ 3,710	\$	2,505	\$	6,215	\$	16,542	\$	6,362	\$	22,904	\$	-	\$ -	9	\$	-	\$	17,051	\$	6,558	\$	23,609	\$	-	\$	-	\$	-
2037	\$	17,427	\$	8,053	\$	25,480	\$ 3,162	\$	2,322	\$	5,484	\$	14,265	\$	5,731	\$	19,996	\$	-	\$ -	9	\$	-	\$	14,704	\$	5,907	\$	20,611	\$	-	\$	-	\$	-
2038	\$	13,715	\$	6.675	s	20,390	\$ 2,466	\$	1.960	S	4.426	\$	11.249	\$	4.715	\$	15.964	s	-	s -	9	\$	-	\$	11.595	\$	4.860	\$	16,455	\$		\$	-	\$	
2039	\$	9,439	\$	4,823	\$	14,262	\$ 1.686	\$	1,446	s	3,132	\$	7,753	\$	3,377	\$	11.130	s	-	s -	9	\$	-	\$	7,992	\$	3,481	\$	11,473	\$		\$	-	\$	
2040	\$	5,403	\$	2.766	\$	8.169	\$ 927	\$	856	s	1.783	\$		\$		\$	6.386	s	-	s -	9	\$	-	\$	4.614	\$	1.969	\$	6.583	\$		\$	-	\$	
2041	\$	3,797	\$	1,948	s	5,745	\$ 629	\$	622	\$	1,251	\$	3,168	s		\$	4,494	s	_	s -	9	s	_	\$	3,265	\$	1,367	\$	4,632	\$	_	\$	-	\$	_
2042	\$	2,787	\$		\$	4,218	\$ 445			\$	916	\$	2,342		960	\$	3,302	s	_	s -	9	•	_	\$	2,414		990	\$	3,404	\$	_	\$	-	\$	_
2043	\$	2,157		1,112		3,269	\$ 333		377		710	\$	1,824			\$	2,559	s	_	s -	9		_	s		\$		\$	2,638	\$	_	\$	_	\$	_
2044	\$	1,668			s	2,528	\$			s	549	\$	1,419			\$	1,979	s	_	s -	9	•	_	\$		\$	577		2,040	\$	_	\$	_	\$	_
2045	\$	1,296			\$	1.966	\$			s	427	\$		\$		\$	1.539	s	_	s -	9		_	s		\$			1.586	\$	_	\$	_	\$	_
2046	\$	1,008	•		\$	1,529	\$ 141	•	191	~	332	\$		\$		\$	1,197	s	_	s -	9	•	_	\$	, .	\$	340		1,234	S	_	\$	_	\$	_
2047	\$	465	\$		s	722	\$ 66		95	s	161	\$	399	s	162		561	s	_	¢ .	9		_	s		\$	167	\$	578	s		¢	_	\$	_
2048	\$	361	•		S	562	\$ 49			\$	125	\$	312	-		\$	437	s	_	ς .	9	-	_	\$		\$		\$	450	S		\$	_	\$	_
2049	\$	-	\$	-	s	-	\$ -	\$	-	s	-	\$		s	-	\$	-	s	_	s -	9	•	_	\$	-	\$	-	\$	-	s	_	\$	_	\$	_
2050	\$	_	\$		s	_	\$	\$	_	s		\$	_	\$		\$	_	s	_	¢ .	9		_	\$	_	\$	_	\$		s		¢	_	\$	_
2051	\$	_	\$		s	_	\$	\$	_	s		\$	_	\$		\$	_	s	_	ς .	9	•	_	\$	_	\$	_	\$		s		\$	_	\$	_
2052	s	_	\$		s	_	\$	\$	_	s		\$	_	s		\$	_	s	_	¢ .	9		_	s	_	\$	_	\$		s		¢	_	\$	_
2052	\$	_	\$		e		\$	\$		s		\$		\$		\$		s		¢ .	9	_		\$		¢.		\$		S		¢.		\$	
2054	\$		\$		S		\$	\$		S		\$		s		\$		s		•	9			\$		φ		\$		S		φ		\$	
2054	ş S	-	\$	-	ę.	-	\$ -	\$	-	ş S		\$	-	s S	-	\$		ş S		\$ -	9	•		S	-	φ ¢	-	Ф \$		s S	-	ψ ¢	-	\$	-
2056	ş S	-	\$	-	ş S	-	\$ -	\$	-	ş S	-	\$	-	s S	-	э \$	-	s S	-	ę -	9			ş S	-	φ e	-	Ф \$	-	S	-	Φ	-	s S	-
2056	\$ \$	-	\$		ē.	-	\$ 	\$		s S		\$ \$		s s	-	\$		s S	-	φ - e	9	_	-	s S	-	φ φ	-	\$ \$		\$	-	Φ	-	\$	
2057	\$ \$	-	\$		s S	-	\$ 	\$		s S		\$		\$	-	\$		\$ \$	-	\$ - \$ -	9	•	-	\$	-	\$	-	\$ \$		\$	-	Φ	-	\$	
2058	s s	-	\$	-	s S	-	\$ -	\$	-	s S	-	\$	-	s s	-	\$ \$	-	s S	-	φ -	9		-	s S	-	φ φ	-	\$ \$	-	s s	-	Φ	-	\$	-
	\$	-	\$	-	Τ.	-	-	Ť	-	7	-	\$	-	\$	-		-	s s	-	э - e	9		-		-	φ φ	-	\$	-	\$	-	Φ	-	-	-
2060	-	-	-	-	\$	-	\$ -	\$	-	\$	-	-	-	-	-	\$	-	-	-	\$ -	-	-	-	\$	-	Ф	-	-	-	-	-	Þ	-	\$	-
2061	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	9	<b>Þ</b>	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-

## City of Weston, West Virginia Firemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements

Actuarial Information to Include in the Financial Statements for the June 30, 2021 Measurement Date

Projection of Pension Plan's Fiduciary Net Position



		Actu	arial Accrued Liabilit	у (ВОҮ)		Closed Group Asset Projection  Projected EEC Projected ER Contrib + Projected Admin												
iscal Year	Curre	nt Members	Future Members		Total	Fidu	iciary Net Position (BOY)	Funded Ratio (BOY)		Projected EEC Contributions (MOY)	Pro	rojected ER Contrib + Premium Tax (MOY)	Projected BP (MOY)	Projected Admin Expenses (MOY)	Proj	ected Investment Earnings		
2021	\$	1,826,287	\$ -	\$	1,826,287	\$	1,348,579	73.84%	\$	5,377	\$	100,012 \$	87,731	\$ -	\$	251,348		
2022	\$	1,886,229	\$ -	\$	1,886,229	\$	1,617,585	85.76%	\$	6,877	\$	77,902 \$	100,072	\$ -	\$	100,628		
2023	\$	1,936,657	\$ -	\$	1,936,657	\$	1,702,920	87.93%	\$	6,743	\$	77,993 \$	101,969	\$ -	\$	105,902		
2024	\$	1,987,869	\$ -	\$	1,987,869	\$	1,791,588	90.13%	\$	6,642	\$	79,978 \$	103,152	\$ -	\$	111,465		
2025	\$	2,040,826	\$ -	\$	2,040,826	\$	1,886,521	92.44%	\$	6,572	\$	81,170 \$	105,051	\$ -	\$	117,375		
2026	\$	2,095,075	\$ -	\$	2,095,075	\$	1,986,587	94.82%	\$	6,499	\$	82,390 \$	106,963	\$ -	\$	123,605		
2027	\$	2,150,679	\$ -	\$	2,150,679	\$	2,092,118	97.28%	\$	6,424	\$	83,774 \$	108,876	\$ -	\$	130,183		
2028	\$	2,207,743	\$ -	\$	2,207,743	\$	2,203,623	99.81%	\$	6,344	\$	31,755 \$	110,776	\$ -	\$	135,490		
2029	\$	2,266,435	\$ -	\$	2,266,435	\$	2,266,436	100.00%	\$	5,660	\$	24,444 \$	117,798	\$ -	\$	138,953		
2030	\$	2,317,694	\$ -	\$	2,317,694	\$	2,317,695	100.00%	\$	4,783	\$	20,290 \$	126,674	\$ -	\$	141,729		
2031	\$	2,357,822	\$ -	\$	2,357,822	\$	2,357,823	100.00%	\$	4,428	\$	18,760 \$	131,089	\$ -	\$	144,043		
2032	\$	2,393,964	\$ -	\$	2,393,964	\$	2,393,965	100.00%	\$	4,208	\$	17,893 \$	133,932	\$ -	\$	146,181		
2033	\$	2,428,313	\$ -	\$	2,428,313	\$	2,428,315	100.00%	\$	4,072	\$	17,461 \$	135,993	\$ -	\$	148,247		
2034	\$	2,462,100	\$ -	\$	2,462,100	\$	2,462,102	100.00%	\$	3,968	\$	17,190 \$	137,465	\$ -	\$	150,302		
2035	\$	2,496,094	\$ -	\$	2,496,094	\$	2,496,096	100.00%	\$	3,891	\$	17,068 \$	139,271	\$ -	\$	152,365		
2036	\$	2,530,146	\$ -	\$	2,530,146	\$	2,530,149	100.00%	\$	3,824	\$	17,051 \$	140,800	\$ -	\$	154,443		
2037	\$	2,564,665	\$ -	\$	2,564,665	\$	2,564,667	100.00%	\$	3,259	\$	14,704 \$	148,035	\$ -	\$	156,289		
2038	\$	2,590,882	\$ -	\$	2,590,882	\$	2,590,884	100.00%	\$	2,542	\$	11,595 \$	155,684	\$ -	\$	157,574		
2039	\$	2,606,909	\$ -	\$	2,606,909	\$	2,606,911	100.00%	\$	1,738	\$	7,992 \$	165,324	\$ -	\$	158,143		
2040	\$	2,609,458	\$ -	\$	2,609,458	\$	2,609,460	100.00%	\$	956	\$	4,614 \$	173,363	\$ -	\$	157,927		
2041	\$	2,599,591	\$ -	\$	2,599,591	\$	2,599,594	100.00%	\$	648	\$	3,265 \$	176,346	\$ -	\$	157,168		
2042	\$	2,584,326	\$ -	\$	2,584,326	\$	2,584,329	100.00%	\$	459	\$	2,414 \$	177,731	\$ -	\$	156,139		
2043	\$	2,565,607	\$ -	\$	2,565,607	\$	2,565,611	100.00%	\$	343	\$	1,880 \$	177,929	\$ -	\$	154,943		
2044	\$	2,544,844	\$ -	\$	2,544,844	\$	2,544,848	100.00%	\$	257	\$	1,463 \$	177,386	\$ -	\$	153,647		
2045	\$	2,522,824	\$ -	\$	2,522,824	\$	2,522,829	100.00%	\$	193	\$	1,143 \$	176,112	\$ -	\$	152,298		
2046	\$	2,500,345	\$ -	\$	2,500,345	\$	2,500,351	100.00%	\$	145	\$	894 \$	174,161	\$ -	\$	150,944		
2047	\$	2,478,167	\$ -	\$	2,478,167	\$	2,478,173	100.00%	\$	68	\$	411 \$	172,021	\$ -	\$	149,606		
2048	\$	2,456,231	\$ -	\$	2,456,231	\$	2,456,237	100.00%	\$	51	\$	321 \$	168,677	\$ -	\$	148,335		
2049	\$	2,436,261	\$ -	\$	2,436,261	\$	2,436,267	100.00%	\$	-	\$	- \$	165,220	\$ -	\$	147,182		
2050	\$	2,418,222	\$ -	\$	2,418,222	\$	2,418,229	100.00%	\$	-	\$	- \$	160,729	\$ -	\$	146,193		
2051	\$	2,403,685	\$ -	\$	2,403,685	\$	2,403,693	100.00%	\$	-	\$	- \$	155,854	\$ -	\$	145,434		
2052	\$	2,393,265		\$	2,393,265	\$	2,393,273	100.00%	\$	-	\$	- \$	150,693		\$	144,942		
2053	\$	2,387,513	\$ -	\$	2,387,513	\$	2,387,522	100.00%	\$	-	\$	- \$	145,321	\$ -	\$	144,748		
	\$	2,386,939		\$	2,386,939	\$	2,386,949	100.00%	\$	-	\$	- \$	139,866		\$	144,880		
	\$	2,391,952		\$	2,391,952	\$	2,391,963	100.00%	\$	-	\$	- \$	134,389		\$	145,362		
	\$	2,402,924		\$	2,402,924	\$	2,402,936	100.00%	\$	_	\$	- \$	128,996		\$	146,213		
	\$	2,420,141		\$	2,420,141	\$	2,420,153	100.00%	\$	-	\$	- \$	123,752		\$	147,451		
	\$	2,443,839			2,443,839	\$	2,443,852	100.00%	\$	-	\$	- \$	118,715		\$	149,087		
	\$	2,474,210		\$	2,474,210	\$	2,474,224	100.00%	\$	-	\$	- \$	113,937		\$	151,132		
	\$	2,511,405			2,511,405	\$	2,511,419	100.00%	\$	-	\$	- \$	109,454		\$	153,595		
	\$	2,555,545		· \$	2,555,545	\$	2,555,560	100.00%	\$	_	\$	- \$	105,295		\$	156,482		

Actuarial Information to Include in the Financial Statements for the June 30, 2021 Measurement Date



**Projection of Pension Plan's Fiduciary Net Position** 

				Calcu	lati	on of Single Equivaler	nt Rate				
Fiscal Year	"Fund	led" Portion of BP	"Unfund	ed" Portion of BP		PV of "Funded" BP	PV of	f "Unfunded"	ВР		of BP Using a Single DR
2021	\$	87,731	\$	-	\$	85,112	\$		-	\$	85,112
2022	\$	100,072	\$	-	\$	91,373	\$		-	\$	91,373
2023	\$	101,969	\$	-	\$	87,629	\$		-	\$	87,629
2024	\$	103,152	\$	-	\$	83,431	\$		-	\$	83,431
2025	\$	105,051	\$	-	\$	79,969	\$		-	\$	79,969
2026	\$	106,963	\$	-	\$	76,635	\$		-	\$	76,635
2027	\$	108,876	\$	-	\$	73,417	\$		-	\$	73,417
2028	\$	110,776	\$	-	\$	70,304	\$		-	\$	70,304
2029	\$	117,798	\$	-	\$	70,363	\$		-	\$	70,363
2030	\$	126,674	\$	-	\$	71,214	\$		-	\$	71,214
2031	\$	131,089	\$	-	\$	69,361	\$		-	\$	69,361
2032	\$	133,932	\$	-	\$	66,696	\$		-	\$	66,696
2033	\$	135,993	\$	-	\$	63,739	\$		-	\$	63,739
2034	\$	137,465	\$	-	\$	60,639	\$		-	\$	60,639
2035	\$	139,271	\$	-	\$	57,822	\$		_	\$	57,822
2036	\$	140,800	\$	-	\$	55,018	\$		_	\$	55,018
2037	\$	148,035	\$	-	\$	54,442	\$		_	\$	54,442
2038	\$	155,684	\$	-	\$	53,887	\$		_	\$	53,887
2039	\$	165,324	\$	-	\$	53,858	\$		_	\$	53,858
2040	\$	173,363	\$	-	\$	53,155	\$		_	\$	53,155
2041	\$	176,346	\$	-	\$	50,889	\$		_	\$	50,889
2042	\$	177,731	\$	-	\$	48,272	\$		_	\$	48,272
2043	\$	177,929	\$	_	\$	45,483	\$		_	\$	45,483
2044	\$	177,386	\$	_	\$	42,677	\$		_	\$	42,677
2045	\$	176,112	\$	_	\$	39,878	\$		_	\$	39,878
2046	\$	174,161	\$	_	\$	37,116	\$		_	\$	37,116
2047	\$	172,021	\$	_	\$	34,504	\$		_	\$	34,504
2048	\$	168,677	\$	_	\$	31,843	\$		_	\$	31,843
2049	\$	165,220	\$	_	\$	29,355	\$		_	\$	29,355
2050	\$	160,729	\$	_	\$	26,878	\$		_	\$	26,878
				_	\$				_		
2051 2052	\$ \$	155,854	\$ ¢	-		24,529	\$ \$		-	\$ ©	24,529
		150,693	\$ ¢	-	\$	22,322			-	\$ ©	22,322
2053	\$	145,321	\$	-	\$	20,260	\$		-	\$	20,260
2054	\$	139,866	\$	-	\$	18,352			-	\$	18,352
2055	\$	134,389	\$	-	\$	16,596			-	\$	16,596
2056	\$	128,996	\$	-	\$	14,993	\$		-	\$	14,993
2057	\$	123,752	\$	-	\$	13,538	\$		-	\$	13,538
2058	\$	118,715	\$	-	\$	12,223	\$		-	\$	12,223
2059	\$	113,937	\$	-	\$	11,041	\$		-	\$	11,041
2060	\$	109,454	\$	-	\$	9,982	\$		-	\$	9,982
2061	\$	105,295	\$	-	\$	9,038	\$		-	\$	9,038