

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



Submitted by:

James Ritchie, ASA, EA, FCA, MAAA President of Bolton Retirement 443.573.3924 jritchie@boltonusa.com Jordan McClane, FSA, EA, FCA, MAAA Actuary 667.218.6935 jmcclane@boltonusa.com



November 28, 2022

Mr. Eric Jiles Finance Director City of Parkersburg 1 Government Square Parkersburg, WV 26101

Sergeant Beniah Depue
Pension Board Secretary
City of Parkersburg
Policemen's Pension and Relief Fund

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

Dear Eric,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Parkersburg Policemen'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 for the fiscal year ending June 30, 2022 is contained in the July 1, 2020 actuarial valuation report. The discount rate assumption may have changed if a blended rate was used for GASB purposes.

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.

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.

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.

Methodology, Reliance and Certification (cont.)

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.

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. Eric Jiles November 28, 2022 Page 3

Methodology, Reliance and Certification (cont.)

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, 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

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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	\$ 53,193,890
Plan fiduciary net position	(22,525,201)
Employer's net pension liability	\$ 30,668,689
Plan fiduciary net position as a percentage of the total pension liability	42.35%

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) 5.75% Single discount rate (EOY) 5.75%

Investment rate of return (BOY) 5.75%, net of pension plan investment expense, including inflation function from the street for the street for the street form of the

Long-term municpal bond rate (BOY) 1.92% Long-term municpal 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 2050 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, 2021 actuarial valuation report.

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

		Current						
	1% Decrease 4.75%	Discount Rate 5.75%	1% Increase 6.75%					
Employer's net pension liability	\$ 38,140,250	\$ 30,668,689	\$ 24,631,682					

City of Parkersburg, West Virginia Policemen'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

	lı Total Pension Liability (a)	ncrease (Decrease Plan Fiduciary Net Position (b)) Net Pension Liability (a) - (b)
Balances at 6/30/21	\$ 52,796,398	\$ 25,210,205	\$ 27,586,193
Changes for the year:			
Service cost	823,925		823,925
Interest	2,957,181		2,957,181
Changes of benefit terms	-		-
Differences between expected and actual experience	(649,291)		(649,291)
Changes of assumptions	-		-
Contributions - employer (including Premium Tax Allocation)		3,803,758	(3,803,758)
Contributions - member		222,595	(222,595)
Net investment income		(3,977,034)	3,977,034
Benefit payments, including refunds of member contributions	(2,734,323)	(2,734,323)	-
Administrative expense		-	-
Other			
Net Changes	397,492	(2,685,004)	3,082,496
Balances at 6/30/22	\$ 53,193,890	\$ 22,525,201	\$ 30,668,689
Return on Investments		(15.4%)	

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
Α	Service cost	\$ 823,925
В	Interest on the total pension liability	2,957,181
Α	Changes of benefit terms	-
С	Differences between expected and actual experience	(292,743)
С	Changes of assumptions	(3,712,380)
Α	Employee contributions	(222,595)
D	Projected earnings on pension plan investments	(1,486,733)
С	Differences between expected and actual earnings on	480,512
	plan investments	
Α	Pension plan administrative expense	-
Α	Other changes in fiduciary net position	-
	Total Pension Expense	\$ (1,452,833)

Notes:

A Provided in the Changes in Net Pension Liability exhibit.

B Based on the following calculation:

	J	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Projected Earnings (a) x (b) x (c)
Beginning total pension liability	\$	52,796,398	100%	5.75%	\$ 3,035,793
Service cost (End of Year)		823,925	0%	5.75%	-
Benefit payments, including refunds of employee contributions		(2,734,323)	50%	5.75%	(78,612)
Total interest on the total pension liability					\$ 2,957,181

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	\$ 25,210,205	100%	5.75%	\$ 1,449,587
Employer contributions	3,803,758	50%	5.75%	109,358
Employee contributions	222,595	50%	5.75%	6,400
Benefit payments, including refunds of employee contributions	(2,734,323)	50%	5.75%	(78,612)
Administrative expense and other	-	50%	5.75%	-
Total Projected Earnings				\$ 1,486,733





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:

	red Outflows Resources	Deferred Inflow of Resources			
Differences between expected and actual experience	\$ 454,810	\$	738,413		
Changes of assumptions	-		3,028,726		
Net difference between projected and actual earnings	2,400,737				
on pension plan investments			-		
Total	\$ 2,855,547	\$	3,767,139		

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	\$ (2,668,791)
2024	232,984
2025	431,460
2026	1,092,755
2027	-
Thereafter	-

City of Parkersburg, West Virginia Policemen'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, 2022 Measurement Date



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

otal pension liability	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Service cost	\$ 823,925	\$ 1,238,884	\$ 1,489,524	\$ 1,507,758	\$ 1,688,407	\$ 1,842,032	\$ 1,176,398	\$ 1,197,121	\$ 1,075,773	\$ -
Interest	2,957,181	3,071,755	2,849,895	2,718,802	2,580,617	2,454,097	2,470,225	2,390,726	2,292,298	-
Changes of benefit terms	-	-	-	-	-	-	-	-	-	-
Differences between expected and actual experience	(649,291) (693,212)	1,224,666	743,233	(1,459,097)	(984,868)	157,865	1,168,303	-	-
Changes of assumptions	-	(5,331,016)	(4,166,570)	-	(4,115,374)	(4,796,753)	11,502,607	-	-	-
Benefit payments, including refunds of member contributions	(2,734,323	(2,680,208)	(2,410,415)	(2,285,474)	(2,275,429)	(2,294,350)	(2,172,068)	(2,118,684)	(2,062,489)	
Net change in total pension liability	397,492	(4,393,797)	(1,012,900)	2,684,319	(3,580,876)	(3,779,845)	13,135,027	2,637,466	1,305,582	-
Total pension liability - beginning	52,796,398	57,190,195	58,203,095	55,518,776	59,099,652	62,879,497	49,744,470	47,107,004	45,801,422	-
Total pension liability - ending (a)	\$ 53,193,890	\$ 52,796,398	\$ 57,190,195	\$ 58,203,095	\$ 55,518,776	\$ 59,099,652	\$ 62,879,497	\$ 49,744,470	\$ 47,107,004	\$ -
Plan fiduciary net position	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Contributions - employer (including Premium Tax Allocation)	\$ 3,803,758	\$ 3,942,677	\$ 3,902,245	\$ 4,252,554	\$ 4,051,274	\$ 2,197,807	\$ 2,058,568	\$ 1,716,213	\$ 1,511,776	\$ -
Contributions - member	222,595		258,222	263,380	263,721	257,318	251,761	259,502	231,541	-
Net investment income	(3,977,034	·	791,836	851,086	288,685	938,602	(247,156)	206,541	1,027,351	-
Benefit payments, including refunds of member contributions	(2,734,323	, , ,	(2,410,415)	(2,285,474)	(2,275,429)	(2,294,353)	(2,172,068)	(2,118,684)	(2,062,489)	-
Administrative expense		-	(103)	(159)	(97)	(96)	-	(116)	(46)	-
Other	-	-	-	-	12,416	24,098	7,173	64	403	-
Net change in plan fiduciary net position	\$ (2,685,004) \$ 5,911,261	\$ 2,541,785	\$ 3,081,387	\$ 2,340,570	\$ 1,123,376	\$ (101,722)	\$ 63,520	\$ 708,536	\$ -
Plan fiduciary net position - beginning	25,210,205	19,298,944	16,757,159	13,675,772	11,335,200	10,211,824	10,313,546	10,250,026	9,541,490	-
Plan fiduciary net position - ending (b)	\$ 22,525,201	\$ 25,210,205	\$ 19,298,944	\$ 16,757,159	\$ 13,675,772	\$ 11,335,200	\$ 10,211,824	\$ 10,313,546	\$ 10,250,026	\$ -
Employer's net pension liability - ending (a)-(b)	\$ 30,668,689	\$ 27,586,193	\$ 37,891,251	\$ 41,445,936	\$ 41,843,004	\$ 47,764,452	\$ 52,667,673	\$ 39,430,924	\$ 36,856,978	\$ -
Plan fiduciary net position as a percentage of the										
otal pension liability	42.35%	47.75%	33.75%	28.79%	24.63%	19.18%	16.24%	20.73%	21.76%	N//
Covered payroll	\$ 2,648,703	\$ 3,021,986	\$ 3,307,254	\$ 3,321,602	\$ 3,266,299	\$ 3,105,982	\$ 3,054,357	\$ 3,080,400	\$ 2,694,700	N/A
mployer's net pension liability as a percentage of										
overed payroll	1157.88%	912.85%	1145.70%	1247.77%	1281.05%	1537.87%	1724.35%	1280.06%	1367.76%	N/A

Notes to Schedule:

Benefit changes: There were no changes for FY2022.

Changes of assumptions: There were no changes for FY2022.

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	\$ 2,610,867	\$ 3,594,402	\$ 3,864,328	\$ 3,824,896	\$ 3,320,531	\$ 3,492,750	\$ 3,333,648	\$ 2,610,942	\$ 2,401,433	\$ 2,363,673
Contributions in relation to the actuarially determined contribution										
Employer provided	3,070,312	3,150,000	3,150,000	3,522,173	3,337,536	1,514,337	1,415,268	1,119,192	950,886	888,678
State provided	733,446	792,677	752,245	730,381	713,738	683,470	643,300	597,021	560,890	763,826
Contribution deficiency (excess)	\$ (1,192,891)	\$ (348,275)	\$ (37,917)	\$ (427,658)	\$ (730,743)	\$ 1,294,943	\$ 1,275,080	\$ 894,729	\$ 889,657	\$ 711,169
Covered payroll	\$ 2,648,703	\$ 3,021,986	\$ 3,307,254	\$ 3,321,602	\$ 3,266,299	\$ 3,105,982	\$ 3,054,357	\$ 3,080,400	\$ 2,694,700	\$ 2,784,855
Contributions as a percentage of covered employee payroll	143.61%	130.47%	117.99%	128.03%	124.03%	70.76%	67.40%	55.71%	56.10%	59.34%

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 5.75%, net of pension plan investment expense, including inflation

Retirement age Rates vary by age

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

Actuarial Information to Include in the Financial Statements for the June 30, 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.

Year	Differences between Projected and Actual Earnings Recognition on Pension Plan Period Year Investments (Years)			Increas 2018	e (Dec	crease) in Per 2019	sion	Expense Aris	sing fi	rom the Recoo	gnitic	on of Differenc	es be	etween Project 2023	ted a	nd Actual Earı 2024	nings	on Plan Inves	stmer	nts 2026
2018	\$	267,034	5	\$ 53,407		53,407		53,407		53,407		53,406								
2019		(111,539)	5		\$	(22,308)		(22,308)		(22,308)		(22,308)		(22,307)						
2020		89,771	5				\$	17,954		17,954		17,954		17,954		17,955				
2021		(3,306,465)	5						\$	(661,293)		(661,293)		(661,293)		(661,293)		(661,293)		
2022		5,463,767	5								\$	1,092,753		1,092,753		1,092,753		1,092,753		1,092,755
Net increa	se (de	ecrease) in pension	expense								\$	480,512	\$	427,107	\$	449,415	\$	431,460	\$	1,092,755

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	Investment Earnings Less than Projected ear (a)		Less than Projected Greater Than Projected				Amounts Recognized in Pension Expense Through June 30, 2022 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2018	\$	267,034	\$	-	\$ 267,034	\$ -	\$ -		
2019		-		111,539	89,232	-	22,307		
2020		89,771		-	53,862	35,909	-		
2021		-		3,306,465	1,322,586	-	1,983,879		
2022		5,463,767		-	1,092,753	4,371,014	-		
						\$ 4,406,923	\$ 2,006,186		

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

for the June 30, 2022 Measurement Date



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.

V.	Differences between Expected and Actual	Recognition Period		2012	224	2245			n Pension Expens				s betwe				2025	2222	222		
Year	Experience	(Years)	Prior	2013	2014	2015	2016	2017	2018	2019	2020	2021		2022	2023	2024	2025	2026	2027	Therea	itter
Prior	-	-															-	-		-	-
2013	-	-																			
2014	-	-																			
2015	1,168,303	4.955647				\$ 235,752	235,752	235,752	235,752	225,295											
2016	157,865	4.959318					\$ 31,832	31,832	31,832	31,832	30,537	•									
2017	(984,868)	5.120274						\$ (192,347)	(192,347)	(192,347)	(192,347	(192,347)	7)	(23,133)							
2018	(1,459,097)	5.268969							\$ (276,923)	(276,923)	(276,923			(276,923)	(74,482)						
2019	743,233	5.000000								\$ 148,647	148,647	•	-	148,647	148,645						
2020	1,224,666	4.000000								,	\$ 306,167	·		306,167	306,165						
2021	(693,212)	3.000000										\$ (231,07		(231,071)	(231,070)						
2022	(649,291)	3.000000										, (- , -	´ \$	(216,430)	(216,430)						
	e (decrease) in per												\$	(292,743)	\$ (67,172)		\$ -	\$ -	\$	- \$	-

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)		ces at 0, 2022 Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$ -	\$ -	\$ -	\$ -
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	1,168,303	-	1,168,303	-	-
2016	157,865	-	157,865	-	-
2017	-	984,868	984,868	-	-
2018	-	1,459,097	1,384,615	-	74,482
2019	743,233	-	594,588	148,645	-
2020	1,224,666	-	918,501	306,165	-
2021	-	693,212	462,142	-	231,070
2022	-	649,291	216,430	-	432,861
				\$ 454,810	\$ 738,413

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

for the June 30, 2022 Measurement Date



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 Pension Expense Arising from the Effects of Changes of Assumptions																
Year	Changes of Assumptions	Period (Years)	Prior	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Thereafter
Prior	\$ -	-																	-
2013	-	-																	
2014	-	-																	
2015	-	4.955647																	
2016	11,502,607	4.959318					\$ 2,319,393	2,319,393	2,319,393	2,319,393	2,225,035								
2017	(4,796,753)	5.120274						\$ (936,816)	(936,816)	(936,816)	(936,816)	(936,816)	(112,673)						
2018	(4,115,374)	5.268969							\$ (781,059)	(781,059)	(781,059)	(781,059)	(781,059)	(210,079)					
2019	-	5.000000																	
2020	(4,166,570)	4.000000									\$ (1,041,643)	(1,041,643)	(1,041,643)	(1,041,641)					
2021	(5,331,016)	3.000000										\$ (1,777,005)	(1,777,005)	(1,777,006)					
2022	-	3.000000																	
Net increas	se (decrease) in pe	nsion expense											\$ (3,712,380)	\$ (3,028,726)	\$ -	\$ -	\$ -	\$ -	\$ -

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, 2022 (c)		nces at 30, 2022 Deferred Inflows of Resources (b) - (c)
Prior	\$ -	\$ -	\$ -	\$ -	\$ -
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	-	-	-	-
2016	11,502,607	-	11,502,607	-	-
2017	-	4,796,753	4,796,753	-	-
2018	-	4,115,374	3,905,295	-	210,079
2019	-	-	-	-	-
2020	-	4,166,570	3,124,929	-	1,041,641
2021	-	5,331,016	3,554,010	-	1,777,006
2022	-	-	-	-	-
				\$ -	\$ 3,028,726