

GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2023



Submitted by:

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



November 8, 2023

Mr. Larry Richman Finance Director City of Grafton 1 W. Main Street Grafton, WV 26354 Deputy Chief Ryan Roberts
Pension Board Secretary
City of Grafton
Firemen's Pension and Relief Fund

Re: City of Grafton Firemen's Pension and Relief Fund
GASB 68 Actuarial Information for the Measurement Period Ending June 30, 2023

Dear Larry,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Grafton Firemen's Pension and Relief Fund to be included in the City's financial statements for FY 2023. The GASB 67 information has been provided as of June 30, 2023 (the GASB 68 measurement date for FY 2023).

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, 2023 (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, 2022 actuarial valuation rolled forward to June 30, 2023. The methods, assumptions, and participant data used are detailed in the July 1, 2022 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, 2023 is contained in the July 1, 2021 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 five 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. Larry Richman November 8, 2023 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, 2022 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

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Jordan McClane, FSA, EA, FCA, MAAA

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Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date



Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2023, were as follows:

Total pension liability	\$ 2,199,220
Plan fiduciary net position	 (1,932,437)
Employer's net pension liability	\$ 266,783
Plan fiduciary net position as a percentage of the total pension liability	87.87%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2022 rolled forward to June 30, 2023 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) 6.00% Single discount rate (EOY) 6.00%

Investment rate of return (BOY) 6.00%, net of pension plan investment expense, including inflation Investment rate of return (EOY) 6.00%, net of pension plan investment expense, including inflation

Long-term municpal bond rate (BOY) 3.69% Long-term municpal bond rate (EOY) 3.86%

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, 2022 actuarial valuation report.

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

			Current	
	Decrease 5.00%	Dis	count Rate 6.00%	Increase 7.00%
Employer's net pension liability	\$ 508,550	\$	266,783	\$ 64,663

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

for the June 30, 2023 Measurement Date



Changes in the Net Pension Liability

	al Pension Liability (a)	Pla	ase (Decrease an Fiduciary et Position (b)	Ne	et Pension Liability (a) - (b)
Balances at 6/30/22	\$ 2,195,238	\$	1,860,995	\$	334,243
Changes for the year:					
Service cost	-				-
Interest	127,119				127,119
Changes of benefit terms	-				-
Differences between expected and actual experience	30,039				30,039
Changes of assumptions	-				-
Contributions - employer (including Premium Tax Allocation)			97,718		(97,718)
Contributions - member			-		-
Net investment income			128,103		(128,103)
Benefit payments, including refunds of member contributions	(153,176)		(153,176)		-
Administrative expense			(1,203)		1,203
Other					-
Net Changes	 3,982		71,442		(67,460)
Balances at 6/30/23	\$ 2,199,220	\$	1,932,437	\$	266,783
Return on Investments			7.0%		





Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2023

Note	Description	Amount
Α	Service cost	\$ -
В	Interest on the total pension liability	127,119
Α	Changes of benefit terms	-
С	Differences between expected and actual experience	30,039
С	Changes of assumptions	-
Α	Employee contributions	-
D	Projected earnings on pension plan investments	(109,961)
С	Differences between expected and actual earnings on plan investments	13,110
Α	Pension plan administrative expense	1,203
Α	Other changes in fiduciary net position	-
	Total Pension Expense	\$ 61,510

Notes:

A Provided in the Changes in Net Pension Liability exhibit.

B Based on the following calculation:

	A	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	E	rojected arnings x (b) x (c)
Beginning total pension liability	\$	2,195,238	100%	6.00%	\$	131,714
Service cost (End of Year)		-	0%	6.00%		-
Benefit payments, including refunds of employee contributions		(153,176)	50%	6.00%		(4,595)
Total interest on the total pension liability					\$	127,119

C Provided in the Schedules of Deferrals.

D Based on the following calculation:

	F	Amount for Period	Portion of Period	Projected Rate of Return	E	rojected arnings
		(a)	(b)	(c)	(a)	x (b) x (c)
Beginning plan fiduciary net position	\$	1,860,995	100%	6.00%	\$	111,660
Employer contributions		97,718	50%	6.00%		2,932
Employee contributions		-	50%	6.00%		-
Benefit payments, including refunds of employee contributions		(153,176)	50%	6.00%		(4,595)
Administrative expense and other		(1,203)	50%	6.00%		(36)
Total Projected Earnings					\$	109,961





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

At June 30, 2023, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	ed Outflows esources	rred Inflows Resources
Differences between expected and actual experience	\$ -	\$ -
Changes of assumptions	-	-
Net difference between projected and actual earnings	85,228	
on pension plan investments		-
Total	\$ 85,228	\$ -

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:	
2024	\$ 19,244
2025	15,948
2026	53,666
2027	(3,630)
2028	-
Thereafter	-

Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date

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



Total pension liability		2023		2022		2021		2020	2019		2018		2017		2016		2015	2014
Service cost	\$	-	\$	-	\$	-	\$	-	\$ 14,433	\$	11,904	\$	24,172	\$	20,265	\$	16,998	\$ 28,363
Interest		127,119		129,190		143,080		164,119	157,279		156,177		162,452		160,757		147,952	143,395
Changes of benefit terms		-		-		-		-	-		-		-		-		-	-
Differences between expected and actual experience		30,039		(12,323)		(12,607)		(367,062)	88,078		(132,769)		(83,721)		154,358		19,796	-
Changes of assumptions		-		-		(212,954)		-	-		-		-		282,960		-	-
Benefit payments, including refunds of member contributions		(153,176)		(149,576)		(148,496)		(146,876)	(144,716)		(142,826)		(161,765)		(133,989)		(113,887)	(89,263)
Net change in total pension liability		3,982		(32,709)		(230,977)		(349,819)	115,074		(107,514)		(58,862)		484,351		70,859	82,495
Total pension liability - beginning		2,195,238		2,227,947		2,458,924		2,808,743	2,693,669		2,801,183		2,860,045		2,375,694		2,304,835	2,222,340
Total pension liability - ending (a)	\$	2,199,220	\$	2,195,238	\$	2,227,947	\$	2,458,924	\$ 2,808,743	\$	2,693,669	\$	2,801,183	\$	2,860,045	\$	2,375,694	\$ 2,304,835
Plan fiduciary net position		2023		2022		2021		2020	2019		2018		2017		2016		2015	2014
Contributions - employer (including Premium Tax Allocation)	s	97,718	\$	51,160	\$	97,633	\$	135,812	\$ 122,156	\$	140,558	\$	136,240	\$	93,567	\$	102,218	\$ 114,769
Contributions - member		-		-		-		-	9,000		2,982		4,034		4,707		5,266	7,667
Net investment income		128,103		(162,088)		299,539		91,445	132,042		89,065		94,822		(16,695)		46,756	147,361
Benefit payments, including refunds of member contributions		(153,176)		(149,576)		(148,496)		(146,876)	(144,716)		(142,826)		(161,765)		(133,989)		(113,887)	(89,263
Administrative expense		(1,203)		(1,200)		(1,200)		(19,200)	(1,200)		(1,200)		(1,347)		(1,446)		(1,273)	(1,315
Other		-		-		-		-	-		-		-		-		-	-
Net change in plan fiduciary net position	\$	71,442	\$	(261,704)	\$	247,476	\$	61,181	\$ 117,282	\$	88,579	\$	71,984	\$	(53,856)	\$	39,080	\$ 179,219
Plan fiduciary net position - beginning		1,860,995		2,122,699		1,875,223		1,814,042	1,696,760		1,608,182		1,536,198		1,590,054		1,550,973	1,371,754
Plan fiduciary net position - ending (b)	\$	1,932,437	\$	1,860,995	\$	2,122,699	\$	1,875,223	\$ 1,814,042	\$	1,696,760	\$	1,608,182	\$	1,536,198	\$	1,590,053	\$ 1,550,973
Employer's net pension liability - ending (a)-(b)	\$	266,783	\$	334,243	\$	105,248	\$	583,701	\$ 994,701	\$	996,909	\$	1,193,001	\$	1,323,847	s	785,641	\$ 753,862
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Plan fiduciary net position as a percentage of the																		
total pension liability		87.87%		84.77%		95.28%		76.26%	64.59%		62.99%		57.41%		53.71%		66.93%	67.29%
Covered payroll		N/A		N/A		N/A		N/A	\$ 44,446	\$	36,547	\$	68,362	\$	75,231	\$	61,732	\$ 107,846
Employer's net pension liability as a percentage of																		
covered payroll		N/A		N/A		N/A		N/A	2238.00%		2727.71%		1745.13%		1759.71%		1272.66%	699.02%
Expected average remaining service years of all participants		1.00		N/A		N/A		N/A	1.00		1.27		2.78		2.94		2.88	N/A
Exposion arorago romaning sorvice yours or an paracipants		1.00		IVA		IVA		14/7	1.50		1.21		2.70		2.54		2.00	14/74

Notes to Schedule: Benefit changes:

s: There were no changes for FY2023.

Changes of assumptions: There were no changes for FY2023.

Actuarial Information to Include in the Financial Statements for the June 30, 2023 Measurement Date

Schedule of Employer Contributions

Last 10 Fiscal Years



	2	023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Actuarially determined contribution	\$	41,504	\$ 49,788	\$ 75,339	\$ 129,613	\$ 120,337	\$ 143,624	\$ 138,617	\$ 90,056	\$ 102,530	\$ 126,502
Contributions in relation to the actuarially determined contribution											
Employer provided		45,500	1,261	50,000	95,000	81,000	101,391	99,644	64,100	70,309	79,112
State provided		52,218	 49,899	47,633	 40,812	41,156	39,167	36,596	 29,467	31,909	35,657
Contribution deficiency (excess)	\$	(56,214)	\$ (1,372)	\$ (22,294)	\$ (6,199)	\$ (1,819)	\$ 3,066	\$ 2,377	\$ (3,511)	\$ 312	\$ 11,733
Covered payroll		N/A	N/A	N/A	N/A	\$ 44,446	\$ 36,547	\$ 68,362	\$ 75,231	\$ 61,732	\$ 107,846
Contributions as a percentage of covered employee payroll		N/A	N/A	N/A	N/A	274.84%	384.60%	199.29%	124.37%	165.58%	106.42%

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 7/1/2021 actuarial valuation to calculate the FY2023 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 9 to 15 years

Asset valuation method 4-year smoothed market

Inflation 2.50 percent

Salary increases Rates vary by years of service

Investment rate of return 6.00%, 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, 2023 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 on Pension Plan Investments		Recognition Period (Years)	Increas 2019	e (De	crease) in Per	nsion	Expense Aris	sing f	rom the Recog	gnitio	n of Difference	es bet	ween Project 2024	ed an	d Actual Eari	nings (on Plan Inves 2026	tment	s 2027
2019	\$	(30,678)	5	\$ (6,136)		(6,136)		(6,136)		(6,136)		(6,134)								
2020		16,490	5		\$	3,298		3,298		3,298		3,298		3,298						
2021		(188,588)	5				\$	(37,718)		(37,718)		(37,718)		(37,718)		(37,716)				
2022		286,462	5						\$	57,292		57,292		57,292		57,292		57,294		
2023		(18,142)	5								\$	(3,628)		(3,628)		(3,628)		(3,628)		(3,630)
Net increa	se (decre	ease) in pension	expense								\$	13,110	\$	19,244	\$	15,948	\$	53,666	\$	(3,630)

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 (a)			Investment Earnings Greater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2019	\$	-	\$	30,678	\$ 30,678	\$ -	\$ -
2020		16,490		-	13,192	3,298	-
2021		-		188,588	113,154	-	75,434
2022		286,462		-	114,584	171,878	-
2023		-		18,142	3,628	-	14,514
						\$ 175,176	\$ 89,948



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	2014	21	015	2016	Incre 2017	ase (Decrease) ii	n Pension Expen	se Arising from t	he Recognition	of Differences	between E		and Actual Exp	erience 2025	2026	2027	2028	Thereafter
Prior		(Tears)	1 7101	2014		0.10	2010	2017	2010	2013	2020	2021	LULL	202	.0	2024	2020	2020	LULI	2020	Hicroarter
2014	-	-																			
2015	19,796	2.881710			\$	6,870	6,870	6,056													
2016	154,358	2.938776					\$ 52,525	52,525	49,308												
2017	(83,721)	2.777475						\$ (30,143)	(30,143)	(23,435)											
2018	(132,769)	1.274654							\$ (104,161)	(28,608)											
2019	88,078	1.000000								\$ 88,078											
2020	(367,062)	1.000000									\$ (367,062)										
2021	(12,607)	1.000000										\$ (12,607)									
2022	(12,323)	1.000000											\$ (12,323)								
2023	30,039	1.000000												\$ 3	0,039						
Net increas	e (decrease) in per	nsion expense												\$ 3	0,039	\$ -	\$	 \$ -	\$	- \$	- \$

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

			Balances at June 30, 2023					
Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)			
Prior	\$ -	\$ -	\$ -	\$ -	\$ -			
2014	-	-	-	-	-			
2015	19,796	-	19,796	-	-			
2016	154,358	-	154,358	-	-			
2017	-	83,721	83,721	-	-			
2018	-	132,769	132,769	-	-			
2019	88,078	-	88,078	-	-			
2020	-	367,062	367,062	-	-			
2021	-	12,607	12,607	-	-			
2022	-	12,323	12,323	-	-			
2023	30,039	-	30,039	-	-			
				\$ -	\$ -			

Actuarial Information to Include in the Financial Statements

for the June 30, 2023 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 Pension Expense Arising from the Effects of Changes of Assumptions Recognition																
Year	Changes of Assumptions	Period (Years)	Prior	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Thereafter
Prior	\$ -	-																	
2014																			
2015	-	2.881710																	
2016	282,960	2.938776				\$ 96,285	96,285	90,390											
2017	-	2.777475																	
2018		1.274654																	
2019	-	1.000000							\$	-									
2020		1.000000								\$ -									
2021	(212,954)	1.000000									\$ (212,954)								
2022	-	1.000000										\$ -							
2023		1.000000											\$ -						
Net increas	e (decrease) in per	nsion expense											\$ -	\$	- \$. \$ -	\$ -	\$ -	\$

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

						ices at 0, 2023		
Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense Through June 30, 2023 (c)	Deferred Outflows o Resources (a) - (c)		Deferred Inflows of Resources (b) - (c)		
Prior	\$ -	\$ -	\$ -	\$	- 5	- 8		
2014	-	-				-		
2015	-	-	-			-		
2016	282,960	-	282,960			-		
2017	-	-	-					
2018	-	-						
2019	-	-	-					
2020	-	-						
2021	-	212,954	212,954					
2022		-						
2023	-							
				\$	- 9			