

# Municipal Pensions Oversight Board

# City of Morgantown West Virginia Firemen's Pension and Relief Fund

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

# Bolton

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 4, 2021

Mr. Kevin Tennant Finance Director City of Morgantown 389 Spruce Street Morgantown, WV 26505 Captain Gary Freshour Pension Board Secretary City of Morgantown Firemen's Pension and Relief Fund

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

Dear Kevin,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Morgantown 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. These calculations are based on the Entry Age Normal cost method as required by GASB 67. The calculation of the Actuarially Determined Contribution (ADC) for the fiscal year ending June 30, 2021 is contained in the July 1, 2019 actuarial valuation report. The discount rate assumption may have changed if a blended rate was used for GASB purposes.

The included calculations are based on a blended discount rate of 3.11%. The plan's expected gross rate of investment return of 4.25% 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 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.

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.

Mr. Kevin Tennant November 4, 2021 Page 2

## 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. Kevin Tennant November 4, 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,

lans Ratelie

James Ritchie, ASA, EA, FCA, MAAA

ful Mide

Jordan McClane, FSA, EA, FCA, MAAA





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	\$ 65,789,931
Plan fiduciary net position	(16,528,896)
Employer's net pension liability	\$ 49,261,035
Plan fiduciary net position as a percentage of the total pension liability	25.12%

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)	3.36%
Single discount rate (EOY)	3.11%
Investment rate of return (BOY)	4.50%, net of pension plan investment expense, including inflation
Investment rate of return (EOY)	4.25%, net of pension plan investment expense, including inflation
Long-term 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	2061
Year assets are expected to be depleted	2036
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

		Decrease 2.11%	Dis	Current scount Rate 3.11%	1	1% Increase 4.11%		
Employer's net pension liability	\$ 6	61,075,309	\$	49,261,035	\$	40,004,390		



Changes in the Net Pension Liability

	Increase (Decrease)							
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)					
Balances at 6/30/20	\$ 64,887,379	\$ 13,590,152	\$ 51,297,227					
Changes for the year:								
Service cost	2,535,031		2,535,031					
Interest	2,147,157		2,147,157					
Changes of benefit terms	-		-					
Differences between expected and actual experience	81,136		81,136					
Changes of assumptions	(1,892,974)		(1,892,974)					
Contributions - employer (including Premium Tax Allocation)		1,559,202	(1,559,202)					
Contributions - member		321,450	(321,450)					
Net investment income		3,028,300	(3,028,300)					
Benefit payments, including refunds of member contributions	(1,967,798)	(1,967,798)	-					
Administrative expense		(2,410)	2,410					
Other			-					
Net Changes	902,552	2,938,744	(2,036,192)					
Balances at 6/30/21	\$ 65,789,931	\$ 16,528,896	\$ 49,261,035					
Return on Investments		22.4%						



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

Note	Description	Amount
А	Service cost	\$ 2,535,031
В	Interest on the total pension liability	2,147,157
А	Changes of benefit terms	-
С	Differences between expected and actual experience	358,529
С	Changes of assumptions	205,370
А	Employee contributions	(321,450)
D	Projected earnings on pension plan investments	(609,543)
С	Differences between expected and actual earnings on	(476,408)
	plan investments	
А	Pension plan administrative expense	2,410
А	Other changes in fiduciary net position	-
	Total Pension Expense	\$ 3,841,096

## 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	\$	64,887,379	100%	3.36%	\$ 2,180,216
Service cost (End of Year)		2,535,031	0%	3.36%	-
Benefit payments, including refunds of employee contributions		(1,967,798)	50%	3.36%	(33,059)
Total interest on the total pension liability					\$ 2,147,157

## 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	\$ 13,590,152	100%	4.50%	\$ 611,557
Employer contributions	1,559,202	50%	4.50%	35,082
Employee contributions	321,450	50%	4.50%	7,233
Benefit payments, including refunds of employee contributions	(1,967,798)	50%	4.50%	(44,275)
Administrative expense and other	(2,410)	50%	4.50%	(54)
Total Projected Earnings				\$ 609,543



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:

	Deferred Outflows of Resources			erred Inflows Resources
Differences between expected and actual experience	\$	981,624	\$	15,643
Changes of assumptions		2,976,777		1,561,663
Net difference between projected and actual earnings		-		
on pension plan investments				1,600,625
Total	\$	3,958,401	\$	3,177,931

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	\$ 718,579
2023	757,772
2024	150,238
2025	(846,119)
2026	-
Thereafter	-

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	2013	2012
Service cost	\$ 2,535,031	\$ 2,373,186	\$ 2,311,877	\$ 1,731,483	\$ 1,925,405	\$ 1,160,928	\$ 1,084,316	\$ 1,008,137	\$-	\$-
Interest	2,147,157	2,140,131	2,002,131	1,938,342	1,749,559	1,817,826	1,775,489	1,840,353	-	-
Changes of benefit terms		· -	-	-		-	-		-	-
Differences between expected and actual experience	81,136	317,635	1,815,332	(218,647)	(454,836)	(113,977)	(1,590,303)	-	-	-
Changes of assumptions	(1,892,974	) 4,052,068	1,363,844	(660,808)	(4,690,165)	11,346,226	662,125	1,349,132	-	-
Benefit payments, including refunds of member contributions	(1,967,798	) (1,828,040)	(1,656,429)	(1,617,352)	(1,533,401)	(1,509,425)	(1,496,332)	(1,456,136)	-	-
Net change in total pension liability	902,552	7,054,980	5,836,755	1,173,018	(3,003,438)	12,701,578	435,295	2,741,486	-	-
Total pension liability - beginning	64,887,379	57,832,399	51,995,644	50,822,626	53,826,064	41,124,486	40,689,191	37,947,705	-	-
Total pension liability - ending (a)	\$ 65,789,931	\$ 64,887,379	\$ 57,832,399	\$ 51,995,644	\$ 50,822,626	\$ 53,826,064	\$ 41,124,486	\$ 40,689,191	\$-	\$-

Plan fiduciary net position	2021	2020		2019		2018	2017	2016	2015	2014	2013		2012
Contributions - employer (including Premium Tax Allocation)	\$ 1,559,202	\$ 1,564,867	\$	1,457,107	\$	1,494,676	\$ 1,356,285	\$ 1,188,366	\$ 1,070,305	\$ 1,013,374	\$ -	\$	-
Contributions - member	321,450	318,125		307,067		258,246	218,900	202,830	191,330	183,544	-		-
Net investment income	3,028,300	(1,618)		716,195		351,940	1,054,659	(250,341)	300,409	1,162,709	-		-
Benefit payments, including refunds of member contributions	(1,967,798)	(1,828,040)		(1,656,429)		(1,617,352)	(1,533,401)	(1,509,425)	(1,496,332)	(1,456,136)	-		-
Administrative expense	(2,410)	(3,138)		-		(2,469)	(2,158)	(3,042)	(1,943)	(1,725)	-		-
Other	 -	-	_	(2,132)	_	-	170	-	-	-	-	_	-
Net change in plan fiduciary net position	\$ 2,938,744	\$ 50,196	\$	821,808	\$	485,041	\$ 1,094,455	\$ (371,612)	\$ 63,769	\$ 901,766	\$ -	\$	-
Plan fiduciary net position - beginning	13,590,152	13,539,956		12,718,148		12,233,107	11,138,652	11,510,264	11,482,554	10,580,788	-		-
Plan fiduciary net position - ending (b)	\$ 16,528,896	\$ 13,590,152	\$	13,539,956	\$	12,718,148	\$ 12,233,107	\$ 11,138,652	\$ 11,546,323	\$ 11,482,554	\$ -	\$	-
Employer's net pension liability - ending (a)-(b)	\$ 49,261,035	\$ 51,297,227	\$	44,292,443	\$	39,277,496	\$ 38,589,519	\$ 42,687,412	\$ 29,578,163	\$ 29,206,637	\$ -	\$	
Plan fiduciary net position as a percentage of the total pension liability	25.12%	20.94%		23.41%		24.46%	24.07%	20.69%	28.08%	28.22%	0.00%		0.00%
Covered payroll	\$ 3,580,333	\$ 3,736,884	\$	3,636,132	\$	2,716,646	\$ 2,590,922	\$ 2,534,252	\$ 2,441,567	\$ 2,453,297	\$ -	\$	-
Employer's net pension liability as a percentage of covered payroll	1375.88%	1372.73%		1218.12%		1445.81%	1489.41%	1684.42%	1211.44%	1190.51%	0.00%		0.00%
Expected average remaining service years of all participants	5.00	5.00		5.00		4.31	4.32	4.71	4.42	-	-		-

### Notes to Schedule:

Benefit changes: There were no changes for FY2021.

Changes of assumptions: The discount rate changed from 3.36% to 3.11%. Changes were made to salary scale assumptions, pay spiking assumptions, inflation, cost-of-living increases, mortality rates, retirement rates, disability rates, marital status, and non-spouse beneficiary loads.

\*Market value of assets as of July 1, 2015, excludes \$36,059 included in the market value of assets as of June 30, 2015, used for the actuarial valuation report for the fiscal year end June 30, 2015.

#### Schedule of Employer Contributions Last 10 Fiscal Years

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Actuarially determined contribution	\$ 3,897,505	\$ 3,716,017	\$ 3,177,129	\$ 2,813,357	\$ 2,670,559	\$ 2,514,255	\$ 1,890,064	\$ 1,885,133	\$ 1,841,042	\$-
Contributions in relation to the actuarially determined contribution										
Employer provided	920,455	933,095	909,000	986,830	870,926	728,343	618,813	578,330	540,495	-
State provided	638,747	631,772	548,107	507,846	485,359	460,023	451,492	435,044	464,202	-
Contribution deficiency (excess)	\$ 2,338,303	\$ 2,151,150	\$ 1,720,022	\$ 1,318,681	\$ 1,314,274	\$ 1,325,889	\$ 819,759	\$ 871,759	\$ 836,345	\$-
Covered payroll	\$ 3,580,333	\$ 3,736,884	\$ 3,636,132	\$ 2,716,646	\$ 2,590,922	\$ 2,534,252	\$ 2,441,567	\$ 2,453,297	\$ 2,447,766	\$-
Contributions as a percentage of covered employee payroll	43.55%	41.88%	40.07%	55.02%	52.35%	46.89%	43.84%	41.31%	41.05%	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 co	ntribution 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	4.50%, 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

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	7 \$ (552,524		Recognition Period (Years)	2017	2018	2019	2020	2021	2	022	2023	:	2024	2025
2017	\$	(552,524)	5	\$ (110,505)	(110,505)	(110,505)	(110,505)	(110,504)						
2018		118,657	5		\$ 23,731	23,731	23,731	23,731		23,733				
2019		(141,502)	5			\$ (28,300)	(28,300)	(28,300)		(28,300)	(28,302)			
2020		612,082	5				\$ 122,416	122,416		122,416	122,416		122,418	
2021		(2,418,757)	5					\$ (483,751)		(483,751)	(483,751)		(483,751)	(483,7
et increa	se (der	rease) in pension	expense					\$ (476,408)	\$	(365,902)	\$ (389,637)	\$	(361,333)	\$ (483,7

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

					Balar June 3	
Year	Investment Earnings Less than Projected (a)		Amounts Recognized in Pension Expense Through June 30, 2021 (c)	C	Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2017	\$-	\$ 552,524	\$ 552,524	\$	-	\$ -
2018	118,657	-	94,924		23,733	-
2019	-	141,502	84,900		-	56,602
2020	612,082	-	244,832		367,250	-
2021	-	2,418,757	483,751		-	1,935,006
				\$	390,983	\$ 1,991,608

#### 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.

B

	Differences between						Increase	e (Decrease) in F	Pension Expense	Arising from t	he Recognition o	f Differences b	etween Expected	l and Actual Exp	perience				
	Expected and Actual	Recognition Period																	
Year	Experience	(Years)	Prior	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Thereafter
Prior	-	-														-	-		-
2012	-	-																	
2013	-	-																	
2014	-	-																	
2015	(1,590,303)	4.416308					\$ (360,098)	(360,098)	(360,098)	(360,098)	(149,911)								
2016	(113,977)	4.713961						\$ (24,179)	(24,179)	(24,179)	(24,179)	(17,261)							
2017	(454,836)	4.318426							\$ (105,324)	(105,324)	(105,324)	(105,324)	(33,540)						
2018	(218,647)	4.308268								\$ (50,751)	(50,751)	(50,751)	(50,751)	(15,643)					
2019	1,815,332	5.000000									\$ 363,066	363,066	363,066	363,066	363,068				
2020	317,635	5.000000										\$ 63,527	63,527	63,527	63,527	63,527			
2021	81,136	5.000000											\$ 16,227	16,227	16,227	16,227	16,228		
Net increas	e (decrease) in pen	sion expense											\$ 358,529	\$ 427,177	\$ 442,822	\$ 79,754	\$ 16,228	\$ -	\$ -

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, 2021 (C)		aces at 60, 2021 Deferred Inflows of Resources (b) - (c)
Prior	\$-	\$ -	\$-	\$-	ş -
2012	-	-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	-	1,590,303	1,590,303	-	-
2016	-	113,977	113,977	-	-
2017	-	454,836	454,836	-	-
2018	-	218,647	203,004	-	15,643
2019	1,815,332	-	1,089,198	726,134	-
2020	317,635	-	127,054	190,581	-
2021	81,136	-	16,227	64,909	-
				\$ 981,624	\$ 15,643

#### 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.

								Increa	se (Decrease) in I	Pension Expens	e Arising from t	he Effects of Ch	anges of Assum	ptions					
	Changes of	Recognition Period																	
Year	Assumptions	(Years)	Prior	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Thereafter
Prior	ş -	-																	-
2012	-	-																	
2013	-	-																	
2014	-	-																	
2015	662,125	4.416308					\$ 149,927	149,927	149,927	149,927	62,417								
2016	11,346,226	4.713961						\$ 2,406,941	2,406,941	2,406,941	2,406,941	1,718,462							
2017	(4,690,165)	4.318426							\$ (1,086,082)	(1,086,082)	(1,086,082)	(1,086,082)	(345,837)						
2018	(660,808)	4.308268								\$ (153,381)	(153,381)	(153,381)	(153,381)	(47,284)					
2019	1,363,844	5.000000									\$ 272,769	272,769	272,769	272,769	272,768				
2020	4,052,068	5.000000										\$ 810,414	810,414	810,414	810,414	810,412			
2021	(1,892,974)	5.000000											\$ (378,595)	(378,595)	(378,595)	(378,595)	(378,594)		
Net increase	e (decrease) in pen	sion expense											\$ 205,370	\$ 657,304	\$ 704,587	\$ 431,817	\$ (378,594)	\$-	\$ -

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

					ices at 0, 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	s -	\$-	\$-	s -	\$-
2012		-	-	-	-
2013	-	-	-	-	-
2014	-	-	-	-	-
2015	662,125	-	662,125	-	-
2016	11,346,226	-	11,346,226	-	-
2017	-	4,690,165	4,690,165	-	-
2018		660,808	613,524	-	47,284
2019	1,363,844	-	818,307	545,537	-
2020	4,052,068	-	1,620,828	2,431,240	-
2021	-	1,892,974	378,595	-	1,514,379
				\$ 2.976.777	\$ 1.561.663



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

	Gr	oss Normal C (BOY)	ost		Empl	oyee Contri (BOY)	butio	ns		Emp		Normal ( BOY)	Cost				penses MOY)				Empl		Contribut IIOY)	ions	\$	Ρ	remiun	n Tax Allo (MOY)	cation
Fiscal Year	Current Members	Future Members	Total		Current <i>I</i> lembers	Future Members		Total		Current embers	F	uture mbers	Total		irrent mbers	F	uture embers		Total		Current Members	F	uture mbers		Total	Current Members		Future Members	Total
2021	\$ 1,860,548	\$-	\$ 1,860,548	\$	291,154	\$-	\$	291,154	\$1	,569,394	\$	-	\$ 1,569,394	\$	2,701	\$	-	\$	2,701	\$	920,414	\$	-	\$	920,414	\$ 638,74	17 \$	-	\$ 638,747
2022	\$ 1,767,946	\$ 163,153	\$ 1,931,099	\$	275,397	\$ 30,34	7\$	305,744	\$1	,492,549	\$	132,806	\$ 1,625,355	\$	2,698	\$	71	\$	2,769	\$	845,399	\$	135,670	\$	981,069	\$ 629,77	7\$	-	\$ 629,777
2023	\$ 1,625,888	\$ 308,463	\$ 1,934,351	\$	253,771	\$ 56,66	3 \$	310,434	\$1	,372,117	\$	251,800	\$ 1,623,917	\$	2,717	\$	145	\$	2,862	\$	789,601	\$	257,240	\$	1,046,841	\$ 634,43	88 \$	-	\$ 634,438
2024	\$ 1,561,459	\$ 481,450	\$ 2,042,909	\$	242,100	\$ 87,99	9 \$	330,099	\$1	,319,359	\$	393,451	\$ 1,712,810	\$	2,685	\$	273	\$	2,958	\$	715,136	\$	401,998	\$	1,117,134	\$ 661,4	79 \$	-	\$ 661,479
2025	\$ 1,525,250	\$ 613,429	\$ 2,138,679	\$	234,692	\$ 112,15	6\$	346,848	\$1	,290,558	\$	501,273	\$ 1,791,831	\$	2,701	\$	331	\$	3,032	\$	680,167	\$	512,145	\$	1,192,312	\$ 676,92	22 \$	-	\$ 676,922
2026	\$ 1,467,989	\$ 730,399	\$ 2,198,388	\$	224,930	\$ 133,91	8 \$	358,848	\$1	,243,059	\$	596,481	\$ 1,839,540	\$	2,716	\$	366	\$	3,082	\$	663,289	\$	609,390	\$	1,272,679	\$ 692,7	51 \$	-	\$ 692,751
2027	\$ 1,362,904	\$ 872,189	\$ 2,235,093	\$	208,184	\$ 159,70	3 \$	367,887	\$1			712,486	\$ 1,867,206	\$	2,757	\$	455	\$	3,212	\$	630,720	\$	727,924	\$	1,358,644	\$ 710,3	57 \$	-	\$ 710,357
2028	\$ 1,221,833	\$ 1,029,675	\$ 2,251,508	\$	184,932	\$ 187,62	1 \$	372,553	\$1	,036,901	\$	842,054	\$ 1,878,955	\$	2,771	\$	575	\$	3,346	\$	590,225	\$	860,336	\$	1,450,561	\$ 731,7	1 \$	-	\$ 731,711
2029	\$ 1,129,240	\$ 1,224,515	\$ 2,353,755	\$	170,245	\$ 222,42	7\$	392,672	\$	958,995	<b>\$</b> 1,	002,088	\$ 1,961,083	\$	2,784	\$	729	\$	3,513	\$	524,921	\$1,	023,890	\$	1,548,811	\$ 751,80	)4 \$	-	\$ 751,804
2030	1 1 1 1 1 1			\$	159,501	\$ 249,88	0\$	409,381	•		\$1,	126,559	\$ 2,028,514	\$	2,825	•	776	•	3,601	\$	502,863			•	1,653,888	\$ 774,63		-	\$ 774,631
2031	\$ 984,606	\$ 1,531,917	\$ 2,516,523	\$	147,944	\$ 277,90	3 \$	425,847	\$	836,662	<b>\$</b> 1,	254,014	\$ 2,090,676	\$	2,866	\$	883	\$	3,749	\$	485,006	\$1,	281,268	\$	1,766,274	\$ 792,84	13 \$	-	\$ 792,843
2032	\$ 910,542	\$ 1,688,773	\$ 2,599,315	\$	136,475	\$ 306,11	8 \$	442,593	\$	774,067	\$ 1,	382,655	\$ 2,156,722	\$	2,907	\$	966	\$	3,873	\$	473,709	\$1,	412,697	\$	1,886,406	\$ 811,5	0 \$	-	\$ 811,510
2033	\$ 833,956			\$	124,383	\$ 334,04		458,424	•				\$ 2,222,090	\$	2,887		1,113	•	4,000	\$	469,481				2,014,918	\$ 832,82		-	\$ 832,826
2034	\$ 777,115	\$ 2,016,932	\$ 2,794,047	\$	115,211	\$ 364,30	0\$	479,511	\$	661,904	<b>\$</b> 1,	652,632	\$ 2,314,536	\$	2,927	•	1,204	-	4,131	\$	463,774	\$1,	688,589	\$	2,152,363	\$ 858,30	)4 \$	-	\$ 858,304
2035		\$ 2,171,133		\$	108,784	\$ 391,77	6\$	500,560	•				\$ 2,407,685	\$	2,968		1,266		4,234	\$	481,333				2,299,374	\$ 882,09		-	\$ 882,098
2036	• • • • • • •			\$	100,098	\$ 417,46		- /	•	578,305	• •	,	\$ 2,477,295	\$	2,975	•	1,365	•	4,340	\$	516,341	• •	,		2,456,630	\$ 931,23		-	\$ 931,235
2037	\$ 629,254	\$ 2,489,617		\$	91,970	\$ 447,94	6\$	539,916	•				\$ 2,578,955	\$	3,015		1,467	•	4,482	\$	538,785	\$2,	086,072		2,624,857	\$ 963,46		-	\$ 963,469
2038		\$ 2,645,134		\$	84,113	\$ 475,53			\$				\$ 2,664,082	\$	3,020		1,574	•	4,594	\$	588,079				2,804,872	\$ 986,2		-	\$ 986,276
2039	\$ 514,194	\$ 2,811,114		\$	74,614	\$ 505,50		580,123	\$	439,580			\$ 2,745,185	\$	3,024		1,685		4,709	\$	641,733				2,997,507	\$ 1,033,8		-	\$ 1,033,813
2040	\$ 424,196			\$	62,649	\$ 535,48		, .	•				\$ 2,801,250	\$	3,063		1,800	•	4,863	\$	710,803				3,203,610	\$ 1,058,33		-	\$ 1,058,323
2041	\$ 356,998			\$	53,168	\$ 572,78			•	303,830			\$ 2,911,994	\$	3,102		1,920		5,022	\$	759,283				3,424,214	\$ 1,083,44		-	\$ 1,083,445
2042	\$ 286,300	\$ 3,333,035		\$	42,434	\$ 599,64		- ,	Ţ	243,866	• •		\$ 2,977,255	\$	3,102		2,046	-	5,148	\$	867,424	• •		•	3,660,339	\$ 1,109,19		-	\$ 1,109,196
2043	\$ 214,579	\$ 3,523,552		\$	31,556	\$ 633,07			\$	183,023	• •	,	\$ 3,073,503	\$	3,100	•	2,255	•	5,355	\$	959,553	• •			3,913,072	\$ 1,166,93		-	\$ 1,166,932
2044	\$ 171,128		\$ 3,832,439	\$	24,873	\$ 658,27		683,145	\$	146,255		,	\$ 3,149,294	\$	3,137		2,392	•	5,529	\$	1,115,041	,		•	4,183,623	\$ 1,194,73		-	\$ 1,194,732
2045	\$ 126,926			\$	18,138	\$ 688,19			\$	108,788			\$ 3,249,652	\$	3,132	•	2,576		5,708	\$	1,263,747		,	•	4,473,236	\$ 1,235,34	•	-	\$ 1,235,342
2046		\$ 3,987,134		\$	12,362	\$ 716,32		- ,	\$	73,993			\$ 3,344,805	\$	3,125		2,768		5,893		1,440,885		342,362		4,783,247	\$ 1,316,69		-	\$ 1,316,691
2047	\$ 61,184	\$ 4,162,642		\$	8,702	\$ 747,49		756,197	\$	52,482		- /	\$ 3,467,629	\$	3,159	•	2,881	•	6,040	\$	1,625,323			•	5,115,168	\$ 1,367,4	•	-	\$ 1,367,484
2048	\$ 41,271	\$ 4,330,713		\$	5,891	\$ 777,54			\$	35,380			\$ 3,588,550	\$	3,148	•	3,087		6,235	\$	1,839,507				5,470,483	\$ 1,447,70		-	\$ 1,447,702
2049	\$ 33,479	\$ 4,486,141	• //	\$	4,659	\$ 806,13		,	\$	28,820		,	\$ 3,708,827	\$	3,135		3,301	•	6,436		2,090,133	,	/	•	5,850,827	\$ 1,488,7		-	\$ 1,488,770
2050	\$ 22,822	\$ 4,634,932		\$	3,177	\$ 833,30		, .	\$	19,645			\$ 3,821,273	\$	3,166	•	3,431	•	6,597	\$	2,373,031				6,258,034	\$ 2,015,9		-	\$ 2,015,902
2051	• • • • •	\$ 4,793,123	• // -	\$	2,032	\$ 861,92		,	\$	13,132		,	\$ 3,944,330	\$	3,100		3,710	•	6,810	\$		• •	- /-	•	6,693,933	\$ 2,078,2		-	\$ 2,078,216
2052	\$ 7,990			\$	1,094	\$ 893,09		894,184	\$	6,896			\$ 4,081,816	\$	3,128		3,901	•	7,029	\$	2,996,056				7,160,568	\$ 2,173,30		-	\$ 2,173,362
2053	, .	\$ 5,141,744	, , .	\$	724	\$ 924,31		,	\$	4,677	• •	, -	\$ 4,222,108	\$	3,104		4,151	•	7,255		3,349,812	• •	, -	•	7,660,082	\$ 2,241,94		-	\$ 2,241,943
2054				\$	470	\$ 957,44			\$	3,105			\$ 4,371,024	\$	3,129		4,359		7,488	\$	3,730,595		464,131		8,194,726	\$ 5,074,50		-	\$ 5,074,560
2055	\$ 1,624	\$ 5,517,716		\$	217	\$ 992,01			\$	1,407	• •	/ -	\$ 4,527,108	\$	3,100	•	4,575	•	7,675	\$	4,141,549	• •	, -	•	8,766,995	\$ 5,785,10		-	\$ 5,785,162
2056				\$ \$		\$ 1,027,53		1,027,693	\$				\$ 4,689,613	\$	3,068		4,853		7,921	\$	4,587,550				9,379,515	\$ 5,929,3		-	\$ 5,929,350
2057	\$ 564 \$ 436	\$ 5,925,891		-	69 50	\$ 1,064,72 \$ 1,103.72			\$ \$	495 384	• •		\$ 4,861,664 \$ 5,042,522	\$ \$	3,032 3.050	•	5,142 5.328	•	8,174 8.378	\$ \$	5,066,516 5.583.145	• •	,		10,035,052 10.736.653	\$ 7,143,13		-	\$ 7,143,135 \$ 7,673,312
2058	*	\$ 6,145,877 \$ 6.366.877	\$ 6,146,313	\$	52	• • • • •		1,103,780	ծ Տ				\$ 5,042,533 \$ 5,042,533	Ť.	- /	•	5,328	•	- /	-	-,, -	,			10,736,653	\$ 7,673,3		-	
2059 2060	\$ 338 \$ -			\$ \$	39	\$ 1,143,09		1,143,132	ծ Տ	299			\$ 5,224,083 \$ 5,420,657	\$ \$	3,008 2.962		5,637	•	8,645 8,861	\$ \$	6,148,264		,		, . ,	\$ 8,718,0		-	\$ 8,718,094 \$10,434,716
	\$- \$-	\$ 6,606,249		-	-	\$ 1,185,59		1,185,592	-	-			\$ 5,420,657 \$ 5,600,501		1	•	- ,	•	- /		6,750,509				12,291,055	\$10,434,7		-	\$10,434,716
2061	φ -	ъ 6,836,234	\$ 6,836,234	\$	-	\$ 1,226,64	з\$	1,226,643	\$	-	\$ 5,	009,591	\$ 5,609,591	\$	2,974	\$	6,109	\$	9,083	ъ	7,417,273	\$5,	133,663	φ.	13,150,936	\$ 6,356,84	+∠ \$	-	\$ 6,356,842



Projection of Pension Plan's Fiduciary Net Position

		Actu	arial Accrued Liability (E	BOY)						CI	osed	d Group Asset Projectio	on		
Fiscal Year	Cu	irrent Members	Future Members		Total	Fi	duciary Net Position (BOY)	Funded Ratio (BOY)		Projected EEC Contributions (MOY)	Pro	ojected ER Contrib + Premium Tax (MOY)	Projected BP (MOY)	Projected Admin Expenses (MOY)	Projected Investment Earnings
2021	\$	53,209,890	\$-	\$	53,209,890	\$	13,590,152	25.54%	\$	297,277	\$	1,559,161	\$ 2,035,029	\$ 2,701	\$ 573,769
2022	\$	55,333,108	\$-	\$	55,333,108	\$	13,982,629	25.27%	\$	281,188	\$	1,475,176	\$ 2,141,118	\$ 2,698	\$ 586,114
2023	\$	57,341,705	\$ 168,575	\$	57,510,280	\$	14,181,291	24.73%	\$	259,108	\$	1,424,039	\$ 2,322,357	\$ 2,717	\$ 589,206
2024	\$	59,102,522	\$ 490,615	\$	59,593,137	\$	14,128,570	23.91%	\$	247,191	\$	1,376,615	\$ 2,398,814	\$ 2,685	\$ 584,110
2025	\$	60,792,942	\$ 999,702	\$	61,792,644	\$	13,934,987	22.92%	\$	239,627	\$	1,357,089	\$ 2,436,397	\$ 2,701	\$ 574,523
2026	\$	62,479,083	\$ 1,659,551	\$	64,138,634	\$	13,667,128	21.87%	\$	229,660	\$	1,356,040	\$ 2,505,655	\$ 2,716	\$ 561,450
2027	\$	64,106,476	\$ 2,454,008	\$	66,560,484	\$	13,305,907	20.76%	\$	212,562	\$	1,341,077	\$ 2,638,741	\$ 2,757	\$ 542,625
2028	\$	65,557,598	\$ 3,402,910	\$	68,960,508	\$	12,760,673	19.46%	\$	188,821	\$	1,321,936	\$ 2,802,414	\$ 2,771	\$ 515,108
2029	\$	66,756,211	\$ 4,515,962	\$	71,272,173	\$	11,981,353	17.95%	\$	173,825	\$	1,276,725	\$ 2,917,227	\$ 2,784	\$ 478,306
2030	\$	67,792,010	\$ 5,842,101	\$	73,634,111	\$	10,990,198	16.21%	\$	162,855	\$	1,277,494	\$ 3,006,231	\$ 2,825	\$ 434,095
2031	\$	68,710,290	\$ 7,344,510	\$	76,054,800	\$	9,855,585	14.34%	\$	151,055	\$	1,277,849	\$ 3,095,552	\$ 2,866	\$ 383,754
2032	\$	69,496,281	\$ 9,028,181	\$	78,524,462	\$	8,569,826	12.33%	\$	139,345	\$	1,285,219	\$ 3,177,228	\$ 2,907	\$ 327,300
2033	\$	70,155,071	\$ 10,898,351	\$	81,053,422	\$	7,141,555	10.18%	\$	126,999	\$	1,302,307	\$ 3,252,802	\$ 2,887	\$ 265,109
2034	\$	70,684,856	\$ 12,958,872	\$	83,643,728	\$	5,580,282	7.89%	\$	117,634	\$	1,322,078	\$ 3,304,000	\$ 2,927	\$ 197,897
2035	\$	71,125,625	\$ 15,236,430	\$	86,362,055	\$	3,910,964	5.50%	\$	111,072	\$	1,363,431	\$ 3,329,617	\$ 2,968	\$ 127,143
2036	\$	71,517,268	\$ 17,728,404	\$	89,245,672	\$	2,180,025	3.05%	\$	102,203	\$	1,447,576	\$ 3,377,186	\$ 2,975	\$ 54,160
2037	\$	71,815,783	\$ 20,416,389	\$	92,232,172	\$	403,803	0.56%	\$	93,904	\$	1,502,254	\$ 3,407,615	\$ 3,015	\$ -
2038	\$	72,044,678	\$ 23,340,754	\$	95,385,432	\$	-	0.00%	\$	85,882	\$	1,574,355	\$ 3,427,838	\$ 3,020	\$ -
2039	\$	72,209,846	\$ 26,489,240	\$	98,699,086	\$		0.00%	\$	76,183	\$	1,675,546	\$ 3,466,580	\$ 3,024	s -
2040	\$	72,275,333	\$ 29,864,156	\$	102,139,489	\$		0.00%	\$	63,966	\$	1,769,126	\$ 3,529,321	\$ 3,063	\$ -
2041	\$	72,185,720	\$ 33,443,786	\$	105,629,506	\$		0.00%	\$	54,286	\$	1,842,728	\$ 3,567,254	\$ 3,102	\$ -
2042	\$	71,983,514	\$ 37,294,310	\$	109,277,824	\$		0.00%	\$	43,326	\$	1,976,620			\$ -
2043	\$	71,645,842			112,975,608	\$		0.00%	\$	32,220		2,126,485			
2044	s	71,175,372			116,741,087	\$		0.00%	s	25,396		2,309,773			
2045	\$	70,632,198			120,558,117	\$		0.00%	\$	18,519		2,499,089			
2046	\$	70,012,812			124,462,108	\$		0.00%	\$	12,622		2,757,576			
2047	s	69,330,759			128,444,220	\$	-	0.00%	s	8,885		2,992,807			
2048	s	68,616,999			132,568,665	\$		0.00%	s	6,015		3,287,209			
2049	\$	67,887,728			136,839,636	\$	-	0.00%	s	4,757		3,578,903			
2050	\$	67,171,516			141,263,803	\$	19,477	0.03%	s	3,244		4,388,933			
2051	s	66,460,885			145,794,519	\$	912,398	1.37%	s	2.075		4,754,572			
2052	\$	65,767,641			150,438,530	\$	2,271,045	3.45%	ŝ	1,117	•	5,169,418			
2053	\$	65,097,824			155,223,779	\$	4,170,364	6.41%	ŝ	739		5,591,755			
2054	ŝ	64,464,889			160,153,498	\$	6,649,310	10.31%	ŝ	480		8,805,155			
2055	s	63,874,678			165,249,576	\$	12,585,823	19.70%	ŝ	222	•	9,926,711			
2055	φ \$	63,331,159			170,530,180	\$	19,993,355	31.57%	ş Ş	165		10,516,900			
2050	ф \$	62,842,098			176,007,317	э \$	28,396,221	45.19%	ې S		э \$	12,209,651			
2058	э S	62,411,346			181,695,983	э \$	38.964.314	43.19% 62.43%	ې S		э \$	13.256.457			
2058	э S	62,045,026	• • • • • • •	•	187,614,040	э \$	51,133,207	82.41%	ې S	40	•	14,866,358		•	1. 1.
2059	ə Տ	61,748,203			193,769,698	э \$	65,548,229	106.15%	ə S	40	э \$	14,866,358			
	э \$	61,525,419			200,196,939	ծ Տ	83,030,533	134.95%	ə S	-	э \$	13,774,115			
2061	\$	61,525,419	a 138,671,520	ф	200,196,939	Ф	83,030,533	134.95%	\$	-	Ф	13,774,115		ə 2,974	a 3,761,595



Projection of Pension Plan's Fiduciary Net Position

				Calcu	latio	on of Single Equivaler	nt Rat	9		
Fiscal Year	"Fun	ded" Portion of BP	"Unfu	nded" Portion of BP	ŀ	PV of "Funded" BP	PV	of "Unfunded" BP	Ρ	V of BP Using a Single DR
2021	\$	2,035,029	\$	-	\$	1,993,116	\$	-	\$	2,004,067
2022	\$	2,141,118	\$	-	\$	2,011,530	\$	-	\$	2,044,869
2023	\$	2,322,357	\$	-	\$	2,092,853	\$	-	\$	2,150,984
2024	\$	2,398,814	\$	-	\$	2,073,626	\$	-	\$	2,154,707
2025	\$	2,436,397	\$	-	\$	2,020,253	\$	-	\$	2,122,379
2026	\$	2,505,655	\$	-	\$	1,992,980	\$	-	\$	2,116,798
2027	\$	2,638,741	\$	-	\$	2,013,272	\$	-	\$	2,161,913
2028	\$	2,802,414	\$	-	\$	2,050,982	\$	-	\$	2,226,677
2029	\$	2,917,227	\$	-	\$	2,047,970	\$	-	\$	2,247,907
2030	\$	3,006,231	\$	-	\$	2,024,416	\$	-	\$	2,246,538
2031	\$	3,095,552	\$	-	\$	1,999,583	\$	-	\$	2,243,432
2032	\$	3,177,228	\$	-	\$	1,968,673	\$	-	\$	2,233,091
2033	\$	3,252,802	\$	-	\$	1,933,334	\$	-	\$	2,217,170
2034	\$	3,304,000	\$	-	\$	1,883,706	\$	-	\$	2,184,061
2035	\$	3,329,617	\$	-	\$	1,820,922	\$	-	\$	2,134,530
2036	\$	-	\$	3,377,186	\$	-	\$	2,514,977	\$	2,099,647
2037	\$	-	\$	3,407,615	\$	-	\$	2,489,833	\$	2,054,590
2038	\$	-	\$	3,427,838	\$	-	\$	2,457,426	\$	2,004,372
2039	\$	-	\$	3,466,580	\$	-	\$	2,438,384	\$	1,965,815
2040	\$	-	\$	3,529,321	\$	-	\$	2,435,749	\$	1,940,956
2041	\$	-	\$	3,567,254	\$	-	\$	2,415,550	\$	1,902,576
2042	\$	-	\$	3,619,329	\$	-	\$	2,404,643	\$	1,872,058
2042	\$	-	\$	3,662,107	\$	-	\$	2,387,230	\$	1,836,985
2043	\$	-	\$	3,669,366	\$	-	\$	2,346,901	\$	1,785,044
2044	\$	-	\$	3,676,267	\$	-	\$	2,307,020	\$	1,734,396
2046	Ψ \$	_	\$	3,670,437	\$	-	\$	2,259,970	\$	1,679,354
2040	\$ \$	-	Գ \$	3,647,401	φ \$	-	φ \$	2,203,480	φ \$	1,618,420
2047	\$ \$	-	Գ \$		ֆ \$	-	ֆ \$	2,203,480	φ \$	
2048	\$ \$	-	Գ \$	3,612,551	φ \$	-	φ \$	2,071,254	φ \$	1,554,552 1,486,282
2049 2050	э \$	-		3,561,449	э \$	-			э \$	
	э \$	-	\$	3,515,290			\$ ¢	2,005,896		1,422,718
2051			\$ ¢	3,460,862	\$	-	\$ ¢	1,937,636	\$ ¢	1,358,393
2052	\$	-	\$	3,401,737	\$	-	\$	1,868,655	\$	1,294,867
2053	\$	3,335,090	\$	-	\$	862,255	\$	-	\$	1,231,162
2054	\$ ¢	3,265,036	\$	-	\$	809,729	\$ ¢	-	\$ ¢	1,168,904
2055	\$ ¢	3,192,746	\$	-	\$	759,522	\$ ¢	-	\$	1,108,508
2056	\$	3,116,411	\$	-	\$ ¢	711,139	\$ ¢	-	\$	1,049,331
2057	\$	3,038,238	\$	-	\$	665,036	\$	-	\$	992,117
2058	\$	2,957,073	\$	-	\$	620,883	\$	-	\$	936,454
2059	\$	2,873,659	\$	-	\$	578,771	\$	-	\$	882,557
2060	\$	2,788,445	\$	-	\$	538,713	\$	-	\$	830,526
2061	\$	2,700,780	\$	-	\$	500,505	\$	-	\$	780,124