

GASB68 Actuarial Information for the Measurement Period Ending 06/30/2019



Submitted by:

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October 28, 2019

Mr. Billie Trump City Treasurer, Recorder City of Beckley 340 Prince Street Beckley, WV 25801 Deputy Chief Jamel Corey
Pension Board Secretary
City of Beckley, West Virginia
Policemen's Pension and Relief Fund

Re: City of Beckley, West Virginia Policemen's Pension and Relief Fund - GASB68 Actuarial Information for the Measurement Period Ending June 30, 2019

Dear Billie,

The following report contains the GASB 67 and GASB 68 actuarial information for the City of Beckley Policemen's Pension and Relief Fund to be included in the City's financial statements for FY2019. The GASB67 information has been provided as of the June 30, 2019 (the GASB 68 measurement date for FY2019).

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, 2019 (the City's fiscal year end date) as required by GASB68. 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, 2018 actuarial valuation rolled forward to June 30, 2019. The methods, assumptions, and participant data used are detailed in the July 1, 2018 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 GASB67. The calculation of the Actuarially Determined Contribution for the fiscal year ended June 30, 2019 is contained in the July 1, 2018 actuarial valuation report.

The included calculations are based on a blended discount rate of 5.50%. The plan's expected gross rate of investment return of 5.5% has been blended with the 3.13% 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, 2019. The development of the blended discount rate is included within this report.

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.) The long-term nominal expected rate of return is based on the fund's current funding ratio, liquidity ratio, equity exposure and expected funded status in 15 years.

Mr. Billie Trump October 28, 2019 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 those assumptions; these differences may be significant or material because these 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 slections are reviewed by a qualified actuary no less than every five years. The actuary shall provide a report to the oversight 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. This 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. These calculations are complex. Despite our best efforts, we may make a mistake. 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.



Mr. Billie Trump October 28, 2019 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 GASB68. 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, 2018 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, MAAA



Actuarial Information to Include in the Financial Statements for the June 30, 2019 Measurement Date



Net Pension Liability of the Employer

The components of the net pension liability of the Employer at June 30, 2019, were as follows:

Total pension liability	\$ 39,946,884
Plan fiduciary net position	 (23,656,733)
Employer's net pension liability	\$ 16,290,151
Plan fiduciary net position as a percentage of the total pension liability	59.22%

Actuarial assumptions. The total pension liability was determined by an actuarial valuation as of July 1, 2018 rolled forward to June 30, 2019 using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation 2.75 percent

Salary increases Rates vary by years of service

Single discount rate (BOY) 6.0000% Single discount rate (EOY) 5.5000%

Investment rate of return 5.50 percent, net of pension plan investment expense, including inflation

Long-term municpal bond rate (BOY) 3.62% Long-term municpal bond rate (EOY) 3.13%

Mortality RP-2014 Blue Collar Mortality Table with generational projection using Scale MP-2014

Year Fund is projected to be fully funded 2057 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, 2018 actuarial valuation report.

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

	1% Decre 4.50%		Current iscount Rate 5.50%	1	% Increase 6.50%
Employer's net pension liability	\$ 22,550	3,628 \$	16,290,151	\$	11,281,727

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

for the June 30, 2019 Measurement Date



Changes in the Net Pension Liability

	lı .	ncrease (Decrease)
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
Balances at 6/30/18	\$ 34,872,905	\$ 22,217,795	\$ 12,655,110
Changes for the year:			
Service cost	1,090,463		1,090,463
Interest	2,043,224		2,043,224
Changes of benefit terms	-		-
Differences between expected and actual experience	886,248		886,248
Changes of assumptions	2,692,393		2,692,393
Contributions - employer (including Premium Tax Allocation)		1,178,526	(1,178,526)
Contributions - member		228,413	(228,413)
Net investment income		1,670,372	(1,670,372)
Benefit payments, including refunds of member contributions	(1,638,349)	(1,638,349)	-
Administrative expense		(24)	24
Other			
Net Changes	5,073,979	1,438,938	3,635,041
Balances at 6/30/19	\$ 39,946,884	\$ 23,656,733	\$ 16,290,151
Return on Investments		7.6%	





Components of Employer's Pension Expense for the Fiscal Year Ended June 30, 2019

Note	Description	ļ	Amount
Α	Service Cost	\$	1,090,463
В	Interest on the total pension liability		2,043,224
Α	Changes of benefit terms		_
С	Differences between expected and actual experience		(163,941)
С	Changes of assumptions		1,103,325
Α	Employee contributions		(228,413)
D	Projected earnings on pension plan investments	((1,215,613)
С	Differences between expected and actual earnings on plan investments		132
Α	Pension plan administrative expense		24
Α	Other changes in fiduciary net position		-
	Total Pension Expense	\$	2,629,201

Notes:

A Provided in the Changes in Net Pension Liability exhibit.

B Based on the following calculation:

	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	Projected Earnings (a) x (b) x (c)
Beginning total pension liability	\$ 34,872,905	100%	6.00%	\$ 2,092,374
Service Cost (End of Year)	1,090,463	0%	6.00%	-
Benefit payments, including refunds of employee contributions	(1,638,349)	50%	6.00%	(49,150)
Total interest on the total pension liability				\$ 2,043,224

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	\$ 22,217,795	100%	5.50%	\$ 1,221,979
Employer contributions	1,178,526	50%	5.50%	32,409
Employee contributions	228,413	50%	5.50%	6,281
Benefit payments, including refunds of employee contributions	(1,638,349)	50%	5.50%	(45,055)
Administrative expense and other	(24)	50%	5.50%	(1)
Total Projected Earnings				\$ 1,215,613





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

At June 30, 2019, the Employer reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	red Outflows Resources	erred Inflows Resources
Differences between expected and actual experience	\$ 738,540	\$ 727,874
Changes of assumptions	4,242,407	1,736,422
Net difference between projected and actual earnings	-	
on pension plan investments		557,359
Total	\$ 4,980,947	\$ 3,021,655

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:	
2020	\$ 1,019,301
2021	357,936
2022	(93,754)
2023	79,368
2024	596,441
Thereafter	-

Actuarial Information to Include in the Financial Statements for the June 30, 2019 Measurement Date

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



Total pension liability	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Service cost	\$ 1,090,463	\$ 1,083,032	\$ 932,441	\$ 527,526	\$ 605,759	\$ 566,516	\$ -	\$ -	\$ -	\$ -
Interest	2,043,224	1,958,079	1,913,373	1,873,424	1,822,041	1,800,224	-	-	-	-
Changes of benefit terms	-	-	-	-	-	-	-	-	-	-
Differences between expected and actual experience	886,248	(539,579)	(579,180)	(367,023)	(240,296)	-	-	-	-	-
Changes of assumptions	2,692,393	(2,425,222)	-	7,544,910	(1,724,947)	-	-	-	-	-
Benefit payments, including refunds of member contributions	(1,638,349)		(1,531,586)	(1,555,886)	(1,573,944)	(1,480,387)	-	-	-	
Net change in total pension liability	5,073,979	(1,529,491)	735,048	8,022,951	(1,111,387)	886,353	-	-	-	-
Total pension liability - beginning	34,872,905	36,402,396	35,667,348	27,644,397	28,755,784	27,869,431	-	-	-	
Total pension liability - ending (a)	\$ 39,946,884	\$ 34,872,905	\$ 36,402,396	\$ 35,667,348	\$ 27,644,397	\$ 28,755,784	\$ -	\$ -	\$ -	\$ -
Plan fiduciary net position	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Contributions - employer (including Premium Tax Allocation)	\$ 1,178,526	\$ 1,129,068	\$ 967.969	\$ 892,200	\$ 870,447	\$ 834.851	\$ -	s -	\$ -	s -
Contributions - member	228,413	207.438	204.974	183,202	163,569	167,926	-	-	-	
Net investment income	1,670,372	1,404,579	1,409,529	917,047	650,402	2,169,818				
Benefit payments, including refunds of member contributions	(1,638,349)		(1,531,586)	(1,555,886)	(1,573,944)	(1,480,387)			-	
Administrative expense	(24)		(24)	-	(68,325)	(63,349)			-	
Other	-	-	-		-	-	-		-	
Net change in plan fiduciary net position	\$ 1,438,938	\$ 1,135,260	\$ 1,050,862	\$ 436,563	\$ 42,149	\$ 1,628,859	\$ -	\$ -	\$ -	\$ -
Plan fiduciary net position - beginning	22,217,795	21,082,534	20,031,672	19,506,341	19,553,486	17,924,627	-		_	-
Plan fiduciary net position - ending (b)	\$ 23,656,733	\$ 22,217,794	\$ 21,082,534	\$ 19,942,904	\$ 19,595,635	\$ 19,553,486	\$ -	\$ -	\$ -	\$ -
Employer's net pension liability - ending (a)-(b)	\$ 16,290,151	\$ 12,655,111	\$ 15,319,862	\$ 15,724,444	\$ 8,048,762	\$ 9,202,298	\$ -	\$ -	\$ -	\$ -
Plan fiduciary net position as a percentage of the										
otal pension liability	59.22%	63.71%	57.92%	55.91%	70.88%	68.00%	0.00%	0.00%	0.00%	0.00%
Covered payroll	\$ 2,671,312	\$ 2,580,777	\$ 2,217,255	\$ 2,100,749	\$ 2,202,152	\$ 2,076,451	\$ -	\$ -	\$ -	\$ -
Employer's net pension liability as a percentage of covered payroll	609.82%	490.36%	690.94%	748.52%	365.50%	443.17%	0.00%	0.00%	0.00%	0.00%

Notes to Schedule: Benefit changes:

There were no changes for FY2019.

Changes of assumptions: The discount rate changed from 6.0000% to 5.5000%.

Actuarial Information to Include in the Financial Statements for the June 30, 2019 Measurement Date

Schedule of Employer Contributions

Last 10 Fiscal Years



	2019	2018	2017	2016	2015	2014	2013	2012		2011		2010
Actuarially determined contribution	\$ 1,618,552	\$ 1,443,038	\$ 1,526,595	\$ 1,424,813	\$ 769,449	\$ 908,970	\$ 856,764	\$. ;	\$	-	\$ -
Contributions in relation to the actuarially determined contribution												
Employer provided	650,018	614,036	480,407	448,978	419,606	392,155	366,500				-	-
State provided	 528,508	515,032	487,562	443,222	 450,841	405,775	702,751					 -
Contribution deficiency (excess)	\$ 440,026	\$ 313,970	\$ 558,626	\$ 532,613	\$ (100,998)	\$ 111,040	\$ (212,487)	\$	3	\$		\$ -
Covered payroll	\$ 2,671,312	\$ 2,580,777	\$ 2,217,255	\$ 2,100,749	\$ 2,202,152	\$ 2,076,451	\$ 1,865,580	\$. (\$	-	\$ -
Contributions as a percentage of covered employee payroll	44.12%	44.00%	44.00%	42.00%	40.00%	38.00%	57.00%	0.009	6	0	.00%	0.00%

Notes to Schedule

Valuation date:

Actuarially determined contribution amounts are calculated as of the beginning of the fiscal year (July 1) for the year immediately following the fiscal year. Actuarial valuations are performed every year.

Methods and assumptions used to determine contribution rates:

Actuarial cost method Entry Age Normal
Amortization method Level Dollar
Remaining amortization period 32.5 years
Asset valuation method Market Value
Inflation 2.75 percent

Salary increases Rates vary by years of service

Investment rate of return 5.50 percent, net of pension plan investment expense, including inflation

Retirement age Rates vary by age

Mortality RP-2014 Blue Collar Mortality Table with generational projection using Scale MP-2014

Actuarial Information to Include in the Financial Statements for the June 30, 2019 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	bety and on	Differences veen Projected Actual Earnings Pension Plan nvestments	Recognition Period (Years)	2015	2016	2017	2018	2019	2020	2021	2022	2023
2015	\$	596,572	5	\$ 119,314	119,314	119,314	119,314	119,316				
2016		431,580	5		\$ 86,316	86,316	86,316	86,316	86,316			
2017		(318,881)	5			\$ (63,776)	(63,776)	(63,776)	(63,776)	(63,777)		
2018		(253,859)	5				\$ (50,772)	(50,772)	(50,772)	(50,772)	(50,771)	
2019		(454,759)	5					\$ (90,952)	(90,952)	(90,952)	(90,952)	(90,95
et increa	se (de	rease) in pension	expense					\$ 132	\$ (119,184)	\$ (205,501)	\$ (141,723)	\$ (90,951

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	tment Earnings than Projected (a)	Investment Earnings Greater Than Projected (b)	Amounts Recognized in Pension Expense Through June 30, 2019 (c)	Oi Re	Deferred utflows of esources (a) - (c)	Deferred Inflows of Resources (b) - (c)	
2015	\$ 596,572	\$ -	\$ 596,572	\$	-	\$	-
2016	431,580	-	345,264		86,316		-
2017	-	318,881	191,328		-		127,553
2018	-	253,859	101,544		-		152,315
2019	-	454,759	90,952		-		363,807
				\$	86,316	\$	643,675

Actuarial Information to Include in the Financial Statements for the June 30, 2019 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.

Year	Differences between Expected and Actual Experience	Recognition Period (Years)	Prior	2014	Increase 2015	(Decrease) in	Pension Expens 2017	e Arising from 2018	the Re	ecognition o	of Differences be	tween Expected	l and Actual E 2022	xperien	oce 2023	2024	Thereafter
Prior	\$ -		\$ -	-	-	-	-	-		-	-	-		-	-	-	-
2015	(240,296)	5.448048			\$ (44,107)	(44,107)	(44,107)	(44,107)		(44,107)	(19,761)						
2016	(367,023)	5.441533				\$ (67,448)	(67,448)	(67,448)		(67,448)	(67,448)	(29,783)					
2017	(579,180)	5.378254					\$ (107,689)	(107,689)		(107,689)	(107,689)	(107,689)	(40,73	5)			
2018	(539,579)	5.839255						\$ (92,405)		(92,405)	(92,405)	(92,405)	(92,40	5)	(77,554)		
2019	886,248	6							\$	147,708	147,708	147,708	147,70	3	147,708	\$ 147,708	-
Net increa	se (decrease) in p	ension expense							\$	(163,941)	\$ (139,595)	\$ (82,169)	\$ 14,56	3 \$	70,154	\$ 147,708	\$ -

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

					Balan June 3		
Year	perience _osses (a)	Experience Gains (b)	ounts Recognized in ion Expense Through June 30, 2019 (c)	Ot Re	Deferred utflows of esources (a) - (c)	In Re	eferred flows of esources (b) - (c)
Prior	\$	\$ -	\$ -	\$	-	\$	
2015	-	240,296	220,535		-		19,761
2016	-	367,023	269,792		-		97,231
2017	-	579,180	323,067		-		256,113
2018	-	539,579	184,810		-		354,769
2019	886,248	-	147,708		738,540		-
				\$	738,540	\$	727,874

Actuarial Information to Include in the Financial Statements for the June 30, 2019 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.

						Increa	se (Decrease) in	Pension Expens	se Arising from t	he Effects of Ch	anges of Assum	nptions			
Year	Changes of Assumptions	Recognition Period (Years)	Prior	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Thereafter
Prior	\$ -		\$ -	-	-	-	-	-	-	-	-	-	-		
2015	(1,724,947)	5.448048			\$ (316,617)	(316,617)	(316,617)	(316,617)	(316,617)	(141,862)					
2016	7,544,910	5.441533				\$ 1,386,541	1,386,541	1,386,541	1,386,541	1,386,541	612,205				
2017	-	5.378254					\$ -	-	-	-	-	-			
2018	(2,425,222)	5.839255						\$ (415,331)	(415,331)	(415,331)	(415,331)	(415,331)	(348,567)		
2019	2,692,393	6						, , ,	\$ 448,732	448,732	448,732	448,732	448,732	\$ 448,7	33 -
Net increa	se (decrease) in pe	nsion expense							\$ 1,103,325	\$ 1,278,080	\$ 645,606	\$ 33,401	\$ 100,165	\$ 448,7	33 \$ -

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

							Balan June 3		
Year	Total Lia	ses in the Pension bility (a)	Decreases in the Total Pension Liability (b)	Amounts Recogni Pension Expense T June 30, 201 (c)	hrough	Defe Outflo Reso (a) -	ws of urces	In Re	eferred flows of esources (b) - (c)
Prior	\$	-	\$ -	\$	-	\$	-	\$	-
2015		-	1,724,947	1	,583,085		-		141,862
2016	7,	544,910	-	5	,546,164	1,99	98,746		-
2017		-	-		-		-		-
2018		-	2,425,222		830,662		-		1,594,560
2019	2,	592,393	-		448,732	2,24	13,661		-
						\$ 4,24	12,407	\$	1,736,422

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

for the June 30, 2019 Measurement Date

Projection of Pension Plan's Fiduciary Net Position (Dollar amounts in thousands)



	Gross Normal Cost (BOY)			Employee Contributions (BOY)				Employer Normal Cost (BOY)) Ex	Expenses			(MOY) Employer Cor		mployer Cor	entributions (MOY)		(MOY)	Premium Tax Allocation			(MOY)							
Fiscal Year	Current Members	Future Members	Total		Current Members	Future Members		Total		Current lembers		Future lembers	Total		Curre //emb			uture mbers		Total		Current Members		Future embers		Total		Current lembers		ture nbers	Total
2019	\$ 1,033,614	\$ -	\$ 1,033,614	\$	209,058	\$ -	\$	209,058	\$	824,556	\$	-	\$ 824,55	\$	10	,554	\$	-	\$	10,554	\$	550,015	\$	-	\$	550,015	\$	528,508	\$	-	\$ 528,508
2020	\$ 1,053,511	\$ 42,550	\$ 1,096,061	\$	212,969	\$ 10,187	\$	223,156	\$	840,542	\$	32,363	\$ 872,90	\$	11	,142	\$	-	\$	11,142	\$	555,275	\$	33,241	\$	588,516	\$	561,153	\$	-	\$ 561,153
2021	\$ 1,061,023	\$ 86,493	\$ 1,147,516	\$	214,544	\$ 20,718	\$	235,262	\$	846,479	\$	65,775	\$ 912,25	\$	11	,224	\$	224	\$	11,448	\$	561,928	\$	67,784	\$	629,712	\$	574,401	\$	-	\$ 574,401
2022	\$ 1,057,166	\$ 144,649	\$ 1,201,815	\$	214,130	\$ 34,671	\$	248,801	\$	843,036	\$	109,978	\$ 953,01	\$	11	,417	\$	458	\$	11,875	\$	560,372	\$	113,420	\$	673,792	\$	589,182	\$	-	\$ 589,182
2023	\$ 1,053,693	\$ 203,201	\$ 1,256,894	\$	213,856	\$ 48,733	\$	262,589	\$	839,837	\$	154,468	\$ 994,30	\$	11	,375	\$	827	\$	12,202	\$	561,471	\$	159,486	\$	720,957	\$	604,368	\$	-	\$ 604,368
2024	\$ 1,048,801	\$ 268,123	\$ 1,316,924	\$	213,552	\$ 64,342	\$	277,894	\$	835,249	\$	203,781	\$ 1,039,03	\$	11	,688	\$	1,086	\$	12,774	\$	561,028	\$	210,396	\$	771,424	\$	619,973	\$	-	\$ 619,973
2025	\$ 992,146	\$ 335,626	\$ 1,327,772	\$	203,828	\$ 80,587	\$	284,415	\$	788,318	\$	255,039	\$ 1,043,35	\$	11	,884	\$	1,363	\$	13,247	\$	562,102	\$	263,322	\$	825,424	\$	642,753	\$	-	\$ 642,753
2026	\$ 968,875	\$ 444,840	\$ 1,413,715	\$	199,909	\$ 106,902	\$	306,811	\$	768,966	\$	337,938	\$ 1,106,90	\$	12	,082	\$	1,904	\$	13,986	\$	534,193	\$	349,011	\$	883,204	\$	659,382	\$	-	\$ 659,382
2027	\$ 968,641	\$ 525,331	\$ 1,493,972	\$	200,282	\$ 126,303	\$	326,585	\$	768,359	\$	399,028	\$ 1,167,38	\$	12	,282	\$	2,217	\$	14,499	\$	532,957	\$	412,071	\$	945,028	\$	676,469	\$	-	\$ 676,469
2028	\$ 945,676	\$ 598,430	\$ 1,544,106	\$	196,939	\$ 143,934	\$	340,873	\$	748,737	\$	454,496	\$ 1,203,23	\$	12	,348	\$	2,682	\$	15,030	\$	541,671	\$	469,509	\$	1,011,180	\$	694,026	\$	-	\$ 694,026
2029	\$ 906,589	\$ 704,484	\$ 1,611,073	\$	190,792	\$ 169,540	\$	360,332	\$	715,797	\$	534,944	\$ 1,250,74	\$	12	,548	\$	3,166	\$	15,714	\$	529,339	\$	552,624	\$	1,081,963	\$	714,614	\$	-	\$ 714,614
2030	\$ 875,713	\$ 807,460	\$ 1,683,173	\$	186,669	\$ 194,415	\$	381,084	\$	689,044	\$	613,045	\$ 1,302,08	\$	12	,893	\$	3,392	\$	16,285	\$	524,630	\$	633,070		1,157,700	\$	733,211	\$	-	\$ 733,211
2031	\$ 835,475	\$ 913,026	\$ 1,748,501	\$	181,121	\$ 219,930	\$	401,051	\$	654,354	\$	693,096	\$ 1,347,45	\$	13	,100	\$	3,919	\$	17,019	\$	522,919	\$	715,820	\$	1,238,739	\$	752,320	\$	-	\$ 752,320
2032	\$ 793,151	\$ 1,034,433	\$ 1,827,584	\$	174,794	\$ 249,293	\$	424,087	\$	618,357	\$	785,140	\$ 1,403,49	\$			\$	4,325	\$	17,634	\$	514,684	\$	810,767	\$	1,325,451	\$	771,954	\$	-	\$ 771,954
2033	\$ 696,812	\$ 1,152,151	\$ 1,848,963	\$	157,086	\$ 277,772	\$	434,858	\$	539,726	\$	874,379	\$ 1,414,10	\$	13	,520	\$	4,750	\$	18,270	\$	515,380	\$	902,853	\$	1,418,233	\$	792,128	\$	-	\$ 792,128
2034	\$ 621,756	\$ 1,300,257	\$ 1,922,013	\$	143,804	\$ 313,631	\$	457,435	\$	477,952	\$	986,626	\$ 1,464,57	\$			\$	- ,	\$	19,083	\$,	•	,018,746	\$	1,517,509	\$	838,657	\$	-	\$ 838,657
2035	\$ 609,811	\$ 1,444,417	\$ 2,054,228	\$	142,567	\$ 348,543	\$	491,110	\$	467,244	\$	1,095,874	\$ 1,563,11	\$	13	,946	\$	5,981	\$	19,927	\$	492,147	\$ 1	,131,588	\$	1,623,735	\$	860,582	\$	-	\$ 860,582
2036	\$ 529,593	\$ 1,562,668	\$ 2,092,261	\$	127,564	\$ 377,174	\$	504,738	\$	402,029			\$ 1,587,52				\$	- , -	\$	20,475	\$,	•	,223,973		1,737,396	\$	883,111	\$	-	\$ 883,111
2037	\$ 459,950		\$ 2,199,881	\$		\$ 420,147	\$	533,259	\$	346,838			\$ 1,666,62				\$	-,	\$	21,375	\$		•	,362,590	\$	1,859,014	\$,	\$	-	\$ 906,259
2038	\$ 413,329	\$ 1,905,152		\$,	\$ 460,202		563,457	\$				\$ 1,755,02			,772		,	\$	22,136	\$,491,518	\$	1,989,145	\$	930,044	\$	-	\$ 930,044
2039	\$ 380,721	\$ 2,055,925	\$ 2,436,646	\$	96,570	\$ 496,751	\$	593,321	\$	284,151	\$	1,559,174	\$ 1,843,32	\$	14	,995	\$	7,750	\$	22,745	\$	519,158	\$ 1	,609,227	\$	2,128,385	\$	965,560	\$	-	\$ 965,560
2040	\$ 341,133	\$ 2,208,071		\$		\$ 533,639	\$	621,691	\$	253,081			\$ 1,927,51			,032		-,	\$	23,370	\$	549,171	•			2,277,372	\$,	\$	-	\$ 990,949
2041	\$ 298,529	\$ 2,368,014		\$		\$ 572,476		651,042	\$	219,963			\$ 2,015,50				\$		\$	24,013	\$,853,015	\$	2,436,788		1,017,036		-	1,017,036
2042	\$ 252,139	\$ 2,519,041	\$ 2,771,180	\$	67,588	\$ 609,238	\$	676,826	\$	184,551		1,909,803	\$ 2,094,35			,	\$.,	\$	24,673	\$,	•	,970,820	\$	2,607,363		1,043,840		-	1,043,840
2043	\$ 195,856	\$ 2,675,150		\$,	\$ 647,323		700,992	\$				\$ 2,170,01				\$		\$	25,550	\$			2,092,905		2,789,878		1,097,096		-	1,097,096
2044	\$ 141,080	\$ 2,831,367		\$, .	\$ 685,487		724,919	\$	101,648		, .,	\$ 2,247,52			,	\$	- ,	\$	26,253	\$		•			2,985,169		1,126,052	•	-	1,126,052
2045	\$ 101,669	\$ 2,994,038	\$ 3,095,707	\$		\$ 725,267	\$	753,885	\$	73,051		, ,	\$ 2,341,82					,	\$	27,184	\$,	•	2,341,801	\$	3,194,131		1,155,805		-	1,155,805
2046	\$ 73,959	\$ 3,143,551		\$,	\$ 761,869		783,220	\$	52,608			\$ 2,434,29			,		, -	\$	27,932	\$			2,458,534		3,417,720		1,186,376		-	1,186,376
2047	\$ 53,424	\$ 3,286,876		\$	- ,	\$ 797,028	\$	812,584	\$	37,868		, ,	\$ 2,527,71					- ,	\$	28,921	\$, , .	•	2,570,418	\$	3,656,960		1,302,038		-	1,302,038
2048	\$ 37,032	\$ 3,426,518		\$	10,723	\$ 831,342		842,065	\$	26,309			\$ 2,621,48				\$	- ,	\$	29,716	\$			2,679,195	\$	3,912,947		1,336,514		-	1,336,514
2049	\$ 26,167	\$ 3,564,348		\$,	\$ 865,194		872,788	\$	18,573			\$ 2,717,72					,	\$	30,766	\$			2,787,321		4,186,853		1,371,938		-	1,371,938
2050	\$ 17,092	\$ 3,709,145	, ., .	\$	5,030	\$ 900,731	\$	905,761	\$	12,062		, ,	\$ 2,820,47					- ,	\$	31,612	\$,,	•	2,900,203	\$	4,479,933		1,408,336		-	1,408,336
2051	\$ 11,200	\$ 3,854,328		\$	-,-	\$ 936,404		939,732	\$				\$ 2,925,79						\$	32,481	\$			3,013,619		4,793,528		2,086,543		-	2,086,543
2052		\$ 3,998,710		\$,	\$ 971,885	-	973,739	\$,		-,	\$ 3,030,99			,873		,	\$	33,374	\$,		3,126,450		5,129,075		2,142,416		-	2,142,416
2053	,	\$ 4,148,413		\$		\$ 1,008,650		1,009,677	\$				\$ 3,141,97						\$	34,552	\$			3,243,461	\$	5,488,110		2,199,825		-	2,199,825
2054		\$ 4,302,470		\$		\$ 1,046,476			\$	638			\$ 3,256,63					.,	\$	35,502	\$			3,363,903		5,872,278		2,258,812		-	2,258,812
2055	\$ 654	\$ 4,459,554		\$		\$ 1,085,044		1,085,269	\$	429			\$ 3,374,93			,808,			\$	36,478	\$			3,486,737	\$	6,283,337		2,319,422		-	2,319,422
2056	\$ 439		\$ 4,619,917	\$	151	\$ 1,124,307		1,124,458	\$	288			\$ 3,495,45						\$	37,763	\$			3,611,812	\$	6,723,171		5,637,601	\$	-	5,637,601
2057	\$ -		\$ 4,785,740	\$	-	\$ 1,165,071		1,165,071	\$	-	-		\$ 3,620,66			,		-,	\$	38,801	\$			3,741,910		5,119,777	\$	-	\$	-	\$ -
2058	\$ -			\$	-	\$ 1,208,360		1,208,360	\$	-			\$ 3,754,11						\$	40,166	\$			3,880,522	\$	3,896,141	\$	-	\$	-	\$ -
2059	\$ -	\$ 5,143,879	\$ 5,143,879	\$	-	\$ 1,252,815	\$ 1	1,252,815	\$	-	\$:	3,891,064	\$ 3,891,06	\$	15	,733	\$	25,538	\$	41,271	\$	15,733	\$ 4	,022,174	\$	4,037,907	\$	-	\$	-	\$ -

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

for the June 30, 2019 Measurement Date

Projection of Pension Plan's Fiduciary Net Position (Dollar amounts in thousands)



		Actu	uarial	Accrued Liability (BC	OY)					CI	osed	d Group Asset Projection			
Fiscal Year	Cu	rrent Members	ı	Future Members		Total	Fid	uciary Net Position (boy)	Funded Ratio (boy)	Projected EEC Contributions (moy)	Pr	ojected ER Contrib + Premium Tax (moy)	Projected BP (moy)	Projected Admin Expenses (moy)	Projected Investment Earnings
2019	\$	38,426,374	\$	- ;	\$	38,426,374	\$	23,656,733	61.56%	\$ 214,730	\$	1,078,523 \$	1,701,564	\$ 10,554	\$ 1,289,756
2020	\$	39,880,942	\$	- :	\$	39,880,942	\$	24,527,624	61.50%	\$ 218,747	\$	1,116,428 \$	1,710,433	\$ 11,142	\$ 1,338,536
2021	\$	41,429,008	\$	44,593	\$	41,473,601	\$	25,479,760	61.50%	\$ 220,365	\$	1,136,329 \$	1,760,588	\$ 11,224	\$ 1,390,124
2022	\$	43,018,627	\$	137,222	\$	43,155,849	\$	26,454,766	61.50%	\$ 219,940	\$	1,149,554 \$	1,825,607	\$ 11,417	\$ 1,442,327
2023	\$	44,624,822	\$	294,971	\$	44,919,793	\$	27,429,563	61.47%	\$ 219,658	\$	1,165,839 \$	1,916,870	\$ 11,375	\$ 1,493,900
2024	\$	46,221,955	\$	521,180	\$	46,743,135	\$	28,380,715	61.40%	\$ 219,346	\$	1,181,001 \$	1,988,526	\$ 11,688	\$ 1,544,664
2025	\$	47,828,169	\$	825,558	\$	48,653,727	\$	29,325,512	61.31%	\$ 209,358	\$	1,204,855 \$	2,127,765	\$ 11,884	\$ 1,593,221
2026	\$	49,319,937	\$	1,214,367	\$	50,534,304	\$	30,193,298	61.22%	\$ 205,333	\$	1,193,575 \$	2,233,325	\$ 12,082	\$ 1,637,664
2027	\$	50,760,777	\$	1,735,173	\$	52,495,950	\$	30,984,463	61.04%	\$ 205,716	\$	1,209,426 \$	2,293,642	\$ 12,282	\$ 1,679,977
2028	\$	52,218,663	\$	2,364,177	\$	54,582,840	\$	31,773,657	60.85%	\$ 202,282	\$	1,235,697 \$	2,413,417	\$ 12,348	\$ 1,720,751
2029	\$	53,609,480	\$	3,099,267	\$	56,708,747	\$	32,506,622	60.64%	\$ 195,969	\$	1,243,953 \$	2,546,145	\$ 12,548	\$ 1,757,510
2030	\$	54,899,226	\$	3,980,535	\$	58,879,761	\$	33,145,361	60.37%	\$ 191,734	\$	1,257,841 \$	2,650,717	\$ 12,893	\$ 1,790,056
2031	\$	56,119,925	\$	5,011,982	\$	61,131,907	\$	33,721,382	60.09%	\$ 186,035	\$	1,275,239 \$	2,768,993	\$ 13,100	\$ 1,818,840
2032	\$	57,243,826	\$	6,203,644	\$	63,447,470	\$	34,219,403	59.78%	\$ 179,536	\$	1,286,638 \$	2,888,960	\$ 13,309	\$ 1,843,103
2033	\$	58,261,668	\$	7,579,745	\$	65,841,413	\$	34,626,411	59.43%	\$ 161,348	\$	1,307,508 \$	3,073,353	\$ 13,520	\$ 1,860,553
2034	\$	59,044,457	\$	9,145,601	\$	68,190,058	\$	34,868,947	59.06%	\$ 147,706	\$	1,337,420 \$	3,212,212	\$ 13,732	\$ 1,870,560
2035	\$	59,648,489	\$	10,942,486	\$	70,590,975	\$	34,998,689	58.67%	\$ 146,435	\$	1,352,729 \$	3,266,403	\$ 13,946	\$ 1,876,601
2036	\$	60,217,480	\$	12,977,192	\$	73,194,672	\$	35,094,105	58.28%	\$ 131,025	\$	1,396,534 \$	3,422,329	\$ 14,161	\$ 1,878,383
2037	\$	60,572,979	\$	15,233,742	\$	75,806,721	\$	35,063,557	57.89%	\$ 116,181	\$	1,402,683 \$	3,565,332	\$ 14,377	\$ 1,872,581
2038	\$	60,727,674		17,784,408		78,512,082	\$	34,875,293	57.43%	\$ 106,057		1,427,671 \$	3,659,395		
2039	\$	60,745,077		20,630,767		81,375,844	\$	34,594,920	56.95%	\$ 99,190		1,484,718 \$	3,717,229		
2040	\$	60.669.632		23.772.206		84.441.838	\$	34,291,037	56.52%	\$ 90,441		1,540,120 \$	3,788,357		
2041	\$	60,475,215		27,228,898		87,704,113	\$	33,945,263	56.13%	\$ 80,698		1,600,809 \$	3,855,304		* 1- 1
2042	\$	60,156,394		31,016,822		91,173,216	\$	33,563,810	55.79%	\$ 69,422		1,680,383 \$	3,942,752		
2043	\$	59.681.276		35,121,214		94.802.490	\$	33,141,481	55.53%	\$ 55.125		1,794,069 \$	4,037,895		
2044	\$	59,022,923		39,527,541		98,550,464	\$	32,700,266	55.40%	\$ 40,502		1,896,574 \$	4,135,190		
2045	\$	58,170,637		44,221,149		102,391,786	\$	32,224,894	55.40%	\$ 29,394		2,008,135 \$	4,182,947		
2046	\$	57,180,844		49,198,620		106,379,464	\$	31,777,499	55.57%	\$ 21,930		2,145,562 \$	4,199,648		
2047	\$	56,090,225		54,443,968		110,534,193	\$	31,421,844	56.02%	\$ 15,978		2,388,580 \$	4,205,838		
2047	\$	54,911,599		59,935,290		114,846,889	\$	31,283,556	56.97%	\$ 11,014		2,570,266 \$	4,203,636		
2048	\$ \$	53.663.867		65.647.860		119,311,727	φ \$	31,331,982	58.39%	\$ 7.800		2,370,260 \$	4,163,703		
2049	\$ \$	52,366,314		71,570,281		123,936,595	\$ \$	31,616,984	60.38%	\$ 7,800 5,166		2,771,470 \$	4,126,509		
2050	\$ \$	51,026,024		77,713,097		128,739,121	\$ \$	32,175,437	63.06%	\$ 3,418		3,866,452 \$	4,080,039		
	s S														
2052	\$ \$	49,653,533		84,075,145		133,728,678	\$	33,712,828	67.90%	\$ 1,904		4,145,041 \$	4,029,196		
2053	*	48,252,319		90,645,562		138,897,881	\$	35,671,674	73.93%	\$ 1,055		4,444,474 \$	3,971,437		
2054	\$	46,830,426		97,423,667		144,254,093	\$	38,104,094	81.37%	\$ 345		4,767,187 \$	3,911,084		
2055	\$	45,389,928		104,414,333		149,804,261	\$	41,063,138	90.47%	\$ 231	\$	5,116,022 \$	3,845,078		
2056	\$	43,937,662		111,612,740		155,550,402	\$	44,611,038	101.53%	\$ 155		8,748,960 \$	3,777,634		
2057	\$	42,474,568		119,008,947		161,483,515	\$	52,154,626	122.79%	\$ -	\$	1,377,867 \$	3,709,766		
2058	\$	41,000,250		126,609,814		167,610,064	\$	52,611,738	128.32%	\$ -	\$	15,619 \$	3,639,564		
2059	\$	39,516,951	\$	134,428,392	\$	173,945,343	\$	51,767,072	131.00%	\$ -	\$	15,733 \$	3,568,182	\$ 15,733	\$ 2,750,377

City of Beckley, West Virginia Policemen's Pension and Relief Fund Actuarial Information to Include in the Financial Statements for the June 30, 2019 Measurement Date



Projection of Pension Plan's Fiduciary Net Position (Dollar amounts in thousands)

	Calculation of Single Equivalent Rate														
scal Year	"Fund	ded" Portion of BP		led" Portion of BP	PV o	f "Funded" BP	PV c	of "Unfunded" BP		PV of BP Using a Single DR					
2019	\$	1,701,564	\$	<u>-</u>	\$	1,656,617	\$	<u>-</u>	\$	1,656,61					
2019	\$	1,710,433	\$	-	\$ \$	1,578,437	\$ \$	_	\$	1,578,43					
2021	\$	1,760,588	\$	_	\$	1,540,021	\$	_	\$	1,540,02					
2021	\$	1,825,607	\$	_	\$	1,513,644	\$	- -	\$	1,513,64					
2022	\$	1,916,870	\$	_	\$	1,506,456	\$	_	\$	1,506,45					
2024	\$	1,988,526	\$	_	\$	1,481,299	\$	_	\$	1,481,29					
2025	\$	2,127,765	\$	_	\$	1,502,390	\$	_	\$	1,502,39					
2026	\$	2,233,325	\$	_	\$	1,494,715	\$	-	\$	1,494,71					
2027	\$	2,293,642	\$	_	\$	1,455,056	\$	_	\$	1,455,05					
2027	\$		\$	_	\$		\$	- -	\$	1,451,22					
2029	φ \$	2,413,417 2,546,145	\$ \$	-	э \$	1,451,222 1,451,217	э \$	-	э \$	1,451,22					
2029	φ \$	2,650,717	\$ \$	-	э \$	1,432,056	э \$	- -	э \$	1,432,05					
2030	\$	2,768,993	\$	-	\$ \$	1,417,967	\$	-	\$	1,417,96					
2031	\$	2,888,960	\$	-	\$ \$	1,402,275	\$	-	\$	1,402,27					
2032	\$	3,073,353	\$	-	\$	1,414,008	\$	- -	\$	1,414,00					
2033	φ \$		э \$	-	э \$	1,400,848	э \$	- -	э \$						
2034		3,212,212	э \$, ,	э \$	-	э \$	1,400,84					
	\$	3,266,403		-	\$	1,350,219				1,350,2					
2036	\$	3,422,329	\$	-	\$	1,340,923	\$	-	\$	1,340,92					
2037	\$	3,565,332	\$	-	\$	1,324,126	\$	-	\$	1,324,12					
2038	\$	3,659,395	\$	-	\$	1,288,209	\$	-	\$	1,288,20					
2039	\$	3,717,229	\$	-	\$	1,240,349	\$	-	\$	1,240,34					
2040	\$	3,788,357	\$	-	\$	1,198,183	\$	-	\$	1,198,18					
2041	\$	3,855,304	\$	-	\$	1,155,788	\$	-	\$	1,155,78					
2042	\$	3,942,752	\$	-	\$	1,120,383	\$	-	\$	1,120,38					
2043	\$	4,037,895	\$	-	\$	1,087,601	\$	-	\$	1,087,60					
2044	\$	4,135,190	\$	-	\$	1,055,742	\$	-	\$	1,055,74					
2045	\$	4,182,947	\$	-	\$	1,012,260	\$	-	\$	1,012,26					
2046	\$	4,199,648	\$	-	\$	963,319	\$	-	\$	963,3					
2047	\$	4,205,838	\$	-	\$	914,445	\$	-	\$	914,44					
2048	\$	4,193,170	\$	-	\$	864,161	\$	-	\$	864,16					
2049	\$	4,163,703	\$	-	\$	813,354	\$	-	\$	813,35					
2050	\$	4,126,509	\$	-	\$	764,065	\$	-	\$	764,06					
2051	\$	4,080,039	\$	-	\$	716,076	\$	-	\$	716,07					
2052	\$	4,029,196	\$	-	\$	670,287	\$	-	\$	670,28					
2053	\$	3,971,437	\$	-	\$	626,236	\$	-	\$	626,23					
2054	\$	3,911,084	\$	-	\$	584,568	\$	-	\$	584,56					
2055	\$	3,845,078	\$	-	\$	544,741	\$	-	\$	544,74					
2056	\$	3,777,634	\$	-	\$	507,286	\$	-	\$	507,28					
2057	\$	3,709,766	\$	-	\$	472,201	\$	-	\$	472,20					
2058	\$	3,639,564	\$	-	\$	439,114	\$	-	\$	439,11					
2059	\$	3,568,182	\$	-	\$	408,058	\$	-	\$	408,05					
#N/A		#N/A		#N/A		#N/A		#N/A		#N/A					
#N/A		#N/A		#N/A		#N/A		#N/A		#N/A					
#N/A		#N/A		#N/A		#N/A		#N/A		#N/A					