

City Of Huntington, West Virginia Firemen's Pension and Relief Fund

Actuarial Valuation Report
for the Year Beginning July 1, 2017



September 19, 2018

Ms. Kathy S. Moore
Finance Director
800 5th Ave.
Huntington, WV 25705

Retiree Frederick S. Mellert
Pension Board Secretary
City of Huntington Firemen's Pension and Relief Fund

**Subject: City of Huntington Firemen's Pension and Relief Fund
Actuarial Valuation Report for the Year Beginning July 1, 2017**

Dear Ms. Moore and Retiree Mellert:

Upon the request of the Municipal Pensions Oversight Board, we have performed an actuarial valuation as of July 1, 2017, for the City of Huntington, West Virginia Firemen's Pension and Relief Fund ("Fund" or "Plan"). This actuarial valuation has been performed in accordance with the West Virginia Code Chapter 8, Article 22, Sections 16 through 28, inclusive.

In accordance with West Virginia Code §8-22-20, this actuarial valuation report provides information on:

- The sponsor's funding requirements for the fiscal year ending June 30, 2019
- The Fund's eligibility to receive an allocation of the premium tax for the fiscal year ending June 30, 2019
- The Fund's eligibility to provide supplemental benefits for the plan year beginning July 1, 2019

West Virginia Code §8-22-20(c)(4) requires a review of the actuarial assumptions and methods at least once every five years and that the Actuary shall provide a report to the oversight board with recommendations on any changes to the actuarial process. Consequently, an experience review was performed for the period July 1, 2009, through June 30, 2014. The actuarial assumptions and methods were recommended by the actuary, in the report *2016 Experience Review for the Years July 1, 2009, to July 1, 2014*, approved by the Municipal Pensions Oversight Board, and became effective for the actuarial valuation as of July 1, 2015.

This report is based on the sponsor's election to finance benefit obligations using the Optional funding policy as defined in West Virginia Code §8-22-20 (e)(1).

This actuarial valuation is based upon:

Plan Member Data – Data for active members and persons receiving benefits from the Fund as of June 30, 2017, was provided by the Fund's staff. We have tested this data for reasonableness.

Asset Values – A reconciliation of market value of assets during the plan year ended June 30, 2017, and assets held as of June 30, 2017, by investment category, was provided by the Fund.

Plan Provisions – A summary of the key plan provisions valued are set forth in Section VI of the report: Summary of Principal Plan Provisions.

Actuarial Methods – Fund liabilities were measured using the Entry-Age Normal Actuarial Cost Method. The actuarial valuation was based on the market value of assets. The actuarial methods used in the actuarial valuation are set forth in Section V of the report: Actuarial Assumptions and Methods.

Actuarial Assumptions – The actuarial assumptions used include a discount rate of 5.00%. The actuarial assumptions used in the actuarial valuation are set forth in Section V of the report: Actuarial Assumptions and Methods.

The actuarial valuation results disclosed in this report are based on the data and actuarial assumptions and methods described above, and upon the provisions of the Plan as of the actuarial valuation date. Based on these items, we certify these results to be true and correct.

To the best of our knowledge, this actuarial statement is complete and accurate, and has been prepared in accordance with generally accepted actuarial principles and practices.

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.

This report should not be relied on for any purpose other than the purpose stated.

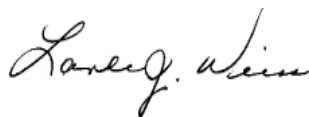
The signing actuaries are independent of the plan sponsor.

Alex Rivera and Lance J. Weiss are members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein.

Sincerely,



Alex Rivera, FSA, EA, MAAA, FCA
Senior Consultant



Lance Weiss, EA, MAAA, FCA
Senior Consultant



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SECTION I

ACTUARIAL VALUATION RESULTS AS OF JULY 1, 2017

Executive Summary of Valuation Results as of July 1, 2017

Upon the request of the Municipal Pensions Oversight Board, we have performed an actuarial valuation as of July 1, 2017, for the City of Huntington, West Virginia Firemen's Pension and Relief Fund ("Fund" or "Plan").

In accordance with West Virginia Code §8-22-20, this actuarial valuation report provides information on:

- The sponsor's funding requirements for the fiscal year ending June 30, 2019
- The Fund's eligibility to receive an allocation of the premium tax for the fiscal year ending June 30, 2019
- The Fund's eligibility to provide supplemental benefits for the plan year beginning July 1, 2019

This report is based on the sponsor's election to finance benefit obligations using the Optional funding policy as defined in West Virginia Code §8-22-20 (e)(1). The sponsor changed the funding policy used to determine contributions from the Alternative funding policy to the Optional funding policy, effective January 1, 2010.

The key features of the Optional funding policy, effective for plan years beginning after January 1, 2010, are summarized below:

- The current local Plan is closed to new employees
- New employees are covered in the multiple employer statewide plan – *Municipal Police Officers and Firefighters Retirement System*
- Benefits and expenses in the closed local Plan are financed by contributions made from the following sources:
 - Employee contributions of 7.0% of pay for members hired before January 1, 2010, increased by up to 2.5% of pay if elected by the Board of Trustees of the Plan. Employees hired on or after January 1, 2010, contribute 9.5% of pay;
 - The premium tax allocation assigned to the Fund for the plan year; and
 - Employer contributions equal to the normal cost, net of employee contributions, plus a 40-year closed period amortization from January 1, 2010, on a level dollar basis, of the unfunded actuarial accrued liability net of premium tax allocation applicable to the plan year.

Executive Summary of Valuation Results as of July 1, 2017 (Continued)

The following table provides the Plan's funded status:

Funded Status as of:	July 1, 2017
Assets	\$23,716,201
Actuarial Accrued Liability	\$112,574,537
Unfunded Actuarial Accrued Liability	\$88,858,336
Funded Ratio	21.07%

The following table provides the estimated employer contributions for the fiscal year ended June 30, 2018, under the Optional funding policy, based on the July 1, 2016 actuarial valuation produced by GRS:

Employer Contributions for FYE:	June 30, 2018
Estimated Payroll for PYE 06/30/2017	\$3,623,803
Employer Normal Cost for PYE 06/30/2017	\$1,676,423
Employer Normal Cost Rate for PYE 06/30/2017	46.3%
Amortization of Unfunded Actuarial Liability for PYE 06/30/2017	\$5,585,959
State Insurance Premium Tax Allocation for FYE 06/30/2018	\$1,107,233
Employer Contribution for FYE 06/30/2018	\$6,155,149

The following table provides the estimated employer contributions for the fiscal year ended June 30, 2019, under the Optional funding policy, based on the July 1, 2017 actuarial valuation produced by GRS:

Estimated Employer Contributions for FYE:	June 30, 2019
Estimated Payroll for PYE 06/30/2018	\$3,782,913
Employer Normal Cost for Active Members for PYE 06/30/2018	\$1,506,053
Employer Normal Cost Rate for PYE 06/30/2018	39.8%
Amortization of Unfunded Actuarial Liability for PYE 06/30/2018	\$5,452,576
State Insurance Premium Tax Allocation for FYE 06/30/2019	\$1,109,807
Estimated Employer Contribution for FYE 06/30/2019 ^c	\$5,848,822

^a The Employer Contribution cannot be less than the Employer Normal Cost.

The actual minimum employer contribution for fiscal year ending June 30, 2019, will be based on the actual payroll for the plan year ended June 30, 2018.

Executive Summary of Valuation Results as of July 1, 2017 (Continued)

Commentary on Premium Tax Allocation

Under §8-22-19 of the West Virginia Code, the plan sponsor is required to deposit the statutory contribution on a monthly basis at a rate of one-twelfth of the annual requirement, in order to receive the premium tax allocation from the Municipal Pensions Security Fund. Revenues which are specifically collected for the Fund, including employee payroll contributions, must be deposited within five days of receipt.

Based upon discussions with the Municipal Pensions Oversight Board (MPOB), we understand the annual premium tax allocation is determined by September 1st each year. Municipalities can begin invoicing the MPOB for their share of the premium tax allocation after receiving their state provided actuarial study and after the municipality has made employer contributions to the local Plan. Each municipal treasurer shall use the invoice template provided by the MPOB to begin drawing down the state allocation for the municipal pension plan. This July 1, 2017, Actuarial Report from GRS is to be used by municipal pension plans to draw down the September 1, 2018, State Premium Tax Allocation which is allocated in Fiscal Year 2019. The actuarial valuation and projection results assume the sponsor will make the statutory contributions on a monthly basis in accordance with statutes, and will be eligible to receive the premium tax allocation.

Commentary on Solvency Projections and Supplemental Benefits

Under § 8-22-26a of the West Virginia Code, all retirees, surviving spouses and disabled pensioners are eligible for Supplemental Benefits that include automatic cost-of-living benefits commencing on the first day of July following two years of retirement. The benefit equals the percentage increase in the Consumer Price Index, limited to 4.0 percent (2.0 percent for certain disabled pensioners), multiplied by the sum of the allowable amount (first \$15,000 of initial benefits paid) and the accumulated supplemental pensions paid in prior years.

The Court of Appeals decision requires that Supplemental Benefits be provided on “the allowable amount of the first \$15,000 of the total annual pension paid in addition to the accumulated supplemental pension from the previous years.” The decision implies that compound cost-of-living increases should be applied to both the allowable amount of \$15,000 and the accumulated supplemental pension amounts for prior years. Additional Supplemental Benefits are payable only if the Plan satisfies the minimum standard for actuarial soundness as defined in West Virginia Code § 8-22-20. This minimum standard requires that the fund remain “solvent” over the next 15-year projection period. Based on discussions with the West Virginia Municipal Pensions Oversight Board, and our understanding of the administrative practices of other local police and fire pension funds in West Virginia, the “solvency” requirement generally means that the fund’s market value of assets is projected to be greater than zero for all plan years prior to the end of the 15-year projection period. The projection is based on the most recent actuarial valuation and assumes the plan sponsor will make contributions according to the funding policy elected by the sponsor as defined by West Virginia Code, including any additional amounts needed to satisfy the 15-year solvency test on a closed group projection basis. Although the 15-year solvency test may satisfy the minimum standard for actuarial soundness under the statutes, it is not necessarily consistent with generally accepted actuarial principles.

Executive Summary of Valuation Results as of July 1, 2017 (Continued)

The City of Huntington has elected to fund benefits using the Optional funding policy as defined in West Virginia Code §8-22-20 (e)(1). Under this funding methodology, the fund's market value of assets is projected to be greater than zero for all plan years prior to the end of the 15-year projection period. Accordingly, this contribution methodology satisfies the minimum standard for actuarial soundness.

The Supplemental benefits for plan year beginning July 1, 2019, will be based on the Consumer Price Index for calendar year 2018, and the projected results of the July 1, 2017, actuarial valuation.

Additional Remarks on the Actuarial Valuation Results

Following are additional remarks on the actuarial valuation results as of July 1, 2017:

- The actuarial assumptions and methods were recommended by the actuary, in the report *2016 Experience Review for the Years July 1, 2009, to July 1, 2014*, and approved by the Municipal Pensions Oversight Board and became effective beginning with the actuarial valuation as of July 1, 2015. The key assumptions are fully disclosed in Section V of the report.
- The interest rate used to discount liabilities changed from 4.50% for the July 1, 2016 actuarial valuation to 5.00% for the July 1, 2017 actuarial valuation.
 - The interest rate assumption was developed by reviewing the Plan's current funded ratio, the 15-year projected funded ratio, the ratio of assets to benefits, the percentage of assets allocated to equities and the funding policy selected. The details of the methodology used to select the discount rate are presented in Section V of the report. As of July 1, 2017, the Plan's funded ratio of 24% (using a testing interest rate of 6.00% for all plans using the Optional funding policy), ratio of assets to benefits of 4.13, equity allocation of 45%, and 15-year projected funded ratio of 50%, resulted in a discount rate assumption of 5.00%.
 - The change in interest rate used to discount liabilities from 4.50% as of July 1, 2016, to 5.00% as of July 1, 2017, decreased liabilities by \$7,844,836.
- The Fund experienced an approximate annualized return of 6.69% on the market value of assets during the plan year ended June 30, 2017, which compares to the expected annualized return of 4.50%. The difference in actual versus expected return produced an asset (gain)/loss of (\$385,602).
- An actuarial valuation is based on the expectation of certain events such as salary increases, retirement, disability, mortality, termination and cost of living increases. Demographic or liability experience (gains)/losses are generated when the actual occurrence of such events differs from the expectation. During the plan year ended June 30, 2017, the fund experienced a net liability (gain)/loss of \$562,398 due to these events.

Optional Funding

Executive Summary of Valuation Results as of July 1, 2017 (Continued)

Following are additional remarks on the actuarial valuation projections under the current funding policy:

Based on the closed group projections shown in Table 1, page II-1 and assuming that the sponsor makes the statutory required contributions, if all actuarial assumptions are realized in the future, including an investment return of 5.00%:

- The funded ratio is projected to increase from 21% at June 30, 2017, to 46% at June 30, 2030, to 61% at June 30, 2040, and 100% at June 30, 2050.
- Employer contributions are expected to decrease steadily from \$5,848,822 for the fiscal year end June 30, 2019, to \$3,032,605 for fiscal year end June 30, 2049.

Please note that a funded ratio of only 21% at June 30, 2017, means that the Plan is underfunded. Although the Plan is projected to be 100% funded at June 30, 2050, the funded ratio is only projected to reach 50% funding in 2033.

This actuarial valuation assumes that the City will be able to make future contributions on a timely basis. The ability of the Plan to become fully funded is heavily dependent on the City contributing the minimum employer contribution calculated under the Optional funding policy for each and every future year. We did not perform an analysis of the ability of the City to make future contributions. Such an analysis is not within the scope of our assignment or within our analytical skill set. Failure to receive City contributions on a timely basis could jeopardize the sustainability of the Plan.

Please understand that the minimum employer contribution calculated under the Optional funding policy as defined in West Virginia Code §8-22-20 (e)(1) is just that – the minimum that needs to be contributed each and every year. Because this is an underfunded Plan, we recommend that the plan sponsor consider making additional contributions (in excess of the minimum requirement) to ensure that there are sufficient assets available in the fund in all years to pay the promised benefits.

If the minimum employer contributions (calculated under the Optional funding policy) are not made or the investment return is less than the assumption of 5.00%, the funded ratio will be lower and the cash flow strain will be higher. If another significant market downturn occurs while the plan's funded ratio is low, the plan may need to liquidate a large amount of assets in order to pay benefits which could have a further adverse effect on the funded status of the Plan.

Under the Optional funding policy, the following experience could cause City contributions to change during the year:

- If the actual return on assets is *less* than the assumed return of 5.00%, then contributions will generally *increase*. Conversely, if the actual return is *greater* than the assumed return, contributions will generally *decrease*.
- If salaries *increase* by more than assumed, contributions could *increase*. If salaries *decrease* by more than assumed, contributions could *decrease*.
- If active members retire *sooner* than expected, contributions will generally *increase*. If active members retire *later* than expected, contributions will generally *decrease*.

Executive Summary of Valuation Results as of July 1, 2017 (Continued)

- If active members become disabled during the year, contributions could increase.
- If retired members die *later* than expected, contributions will increase. If retired members die *sooner* than expected, contributions will decrease.
- If the general inflation is *greater* than assumed, supplemental benefits will be greater than assumed and contributions will *increase*. Conversely, if general inflation is *lower* than assumed, contributions will *decrease*.

At least once every five years, GRS performs an experience review analysis and updates the actuarial valuation assumptions. For example, if salary increases were consistently lower than assumed during the experience period, then the salary increase rate would likely be lowered. Or if more members retired than assumed, then the retirement rates would likely be increased. Any change in actuarial assumption will also impact the City's funded ratio. The objective of a change in assumptions is to reduce the level of experience gains and losses in future actuarial valuations.

Schedule A: Summary of Key Valuation Results

Valuation Date	July 1, 2016	July 1, 2017
Valuation Interest Rate	4.50%	5.00%
Cost-of-Living Adjustment	2.75%	2.75%
Wage Inflation	3.75%	3.75%
Expected Payroll	\$3,623,803	\$3,782,913
Average Pay	\$49,641	\$54,042
Expected Benefit Payments	\$5,742,385	\$5,742,536
1. Actuarial Accrued Liability	<u>No.</u>	<u>No.</u>
(a) Actives	73 \$28,314,517	70 \$27,546,895
(b) Retirees	118 \$72,950,534	117 \$68,546,079
(c) Survivors	39 \$7,071,395	35 \$6,328,919
(d) Disabled Members	22 \$8,533,919	20 \$7,773,166
(e) Deferred Vested Members	2 \$1,484,125	3 \$2,379,478
(f) Total	254 \$118,354,490	245 \$112,574,537
2. Present Value of Future Normal Costs	\$18,980,665	\$16,092,572
3. Present Value of Benefits (1(f) + 2)	\$137,335,155	\$128,667,109
4. Market Value of Assets	\$20,503,236	\$23,716,201
5. Unfunded Actuarial Accrued Liability (1(f) - 4)	\$97,851,254	\$88,858,336
6. Funded Ratio (4 / 1(f))	17.32%	21.07%
7. Net Employer Normal Cost		
(a) Normal Cost	\$1,921,250	\$1,761,439
(b) Administrative Expenses	\$8,839	\$9,418
(c) Gross Normal Cost (a + b)	\$1,930,089	\$1,770,857
(d) Employee Contribution Rate ^a	7.00%	7.00%
(e) Expected Employee Contributions	\$253,666	\$264,804
(f) Net Employer Normal Cost (c - e)	\$1,676,423	\$1,506,053
(% of Compensation)	46.26%	39.81%
8. Estimated Minimum Employer Contribution ^b	<u>FYE 2018</u>	<u>FYE 2019</u>
(a) Expected Payroll	\$3,623,803	\$3,782,913
(b) Estimated Employer Normal Cost	\$1,676,423	\$1,506,053
(c) Employer Normal Cost Rate	46.26%	39.81%
(d) Amortization of Unfunded Actuarial Liability	\$5,585,959	\$5,452,576
(e) State Insurance Premium Tax Allocation	\$1,107,233	\$1,109,807
(f) Estimated Employer Contribution ^c (b + d - e)	\$6,155,149	\$5,848,822

^a Blended rate reflecting 7.0% for members hired before January 1, 2010.

^b Estimated Minimum Employer Contribution is based on Optional funding policy and is assumed to be made in plan year ending June 30, 2019. The actual Minimum Employer Contribution will be based on actual payroll for plan year ended June 30, 2018.

^c The Employer Contribution cannot be less than the Employer Normal Cost.

Schedule B: (Gain)/Loss Analysis

Experience (Gain)/Loss for Plan Year Ended June 30, 2017

1. (a) Actuarial Accrued Liability as of 7/1/2016	\$118,354,490
(b) Normal Cost due 7/1/2016	\$1,921,250
(c) Interest on (a) and (b) to 6/30/2017	\$5,369,180
(d) Benefit Payments with interest to 6/30/2017	\$5,787,945
(e) Effect of Assumption Changes	(\$7,844,836)
(f) Expected Liability at 7/1/2017 [(a) + (b) + (c) - (d) + (e)]	\$112,012,139
(g) Actual Liability at 7/1/2017	\$112,574,537
(h) Liability (Gain)/Loss [(g) - (f)]	\$562,398
2. (a) Market Value of Assets as of 7/1/2016	\$20,503,236
(b) Interest on (a) to 6/30/2017	\$779,642
(c) Contributions with interest to 6/30/2017	\$7,835,666
(d) Benefit Payments with interest to 6/30/2017	\$5,787,945
(e) Expected Assets at 6/30/2017 [(a) + (b) + (c) - (d)]	\$23,330,599
(f) Actual Assets at 7/1/2017	\$23,716,201
(g) Asset (Gain)/Loss [(e) - (f)]	(\$385,602)
3. Total (Gain)/Loss [1(h) + 2(g)]	\$176,796

SECTION II

ACTUARIAL PROJECTIONS

Actuarial Projections, Table 1

Valuation			Total Assets												
Plan	Number		Assets	Benefit	Employer	Member	Premium Tax	Investment	Assets	Actuarial	Unfunded	Funded			
	Year End	Pay											Accrued	Liability	Liability
30-Jun	Active	Status	(booy)	Payments	Expenses	Contributions	Contributions	Income	(eoy)	Liability	Liability	Ratio			
2017	70	175	\$20,503,236	\$5,660,582	\$62,785	\$6,266,667	\$273,029	\$1,135,084	\$1,261,552	\$23,716,201	\$112,574,537	\$88,858,336	21%		
2018	67	175	23,716,201	5,742,536	9,418	6,155,149	264,804	1,107,233	1,229,650	26,721,082	114,124,511	87,403,429	23%		
2019	63	176	26,721,082	5,799,850	9,551	5,848,822	264,710	1,109,807	1,370,971	29,505,991	115,685,111	86,179,120	26%		
2020	60	175	29,505,991	5,875,321	9,678	5,781,880	263,415	1,150,327	1,507,665	32,324,279	117,229,003	84,904,724	28%		
2021	56	175	32,324,279	5,961,392	9,800	5,736,907	263,354	1,178,129	1,646,026	35,177,502	118,755,453	83,577,951	30%		
2022	54	174	35,177,502	6,023,196	9,919	5,701,424	263,522	1,206,351	1,786,983	38,102,667	120,291,252	82,188,585	32%		
2023	50	175	38,102,667	6,122,157	10,034	5,670,042	260,709	1,233,553	1,930,622	41,065,401	121,781,547	80,716,146	34%		
2024	44	177	41,065,401	6,295,342	10,147	5,619,884	249,449	1,266,076	2,073,765	43,969,086	123,091,220	79,122,134	36%		
2025	39	178	43,969,086	6,510,093	10,259	5,515,554	233,334	1,304,719	2,211,624	46,713,965	124,134,201	77,420,236	38%		
2026	33	181	46,713,965	6,753,216	10,365	5,379,070	213,180	1,343,345	2,339,947	49,225,926	124,841,429	75,615,503	39%		
2027	28	181	49,225,926	6,982,984	10,467	5,214,351	192,865	1,385,985	2,456,351	51,482,027	125,208,606	73,726,579	41%		
2028	25	181	51,482,027	7,151,044	10,566	5,049,971	176,592	1,425,166	2,561,510	53,533,657	125,308,493	71,774,836	43%		
2029	20	182	53,533,657	7,338,955	10,660	4,906,736	156,740	1,464,682	2,656,397	55,368,597	125,082,947	69,714,350	44%		
2030	16	182	55,368,597	7,542,949	10,753	4,741,180	134,728	1,507,661	2,739,533	56,937,997	124,484,573	67,546,576	46%		
2031	12	182	56,937,997	7,748,203	10,839	4,564,235	111,600	1,548,152	2,808,991	58,211,933	123,488,897	65,276,964	47%		
2032	9	181	58,211,933	7,934,578	10,918	4,379,851	89,307	1,591,419	2,864,048	59,191,063	122,103,838	62,912,775	48%		
2033	7	179	59,191,063	8,031,217	10,988	4,204,406	74,125	1,632,286	2,906,918	59,966,594	120,448,592	60,481,998	50%		
2034	6	176	59,966,594	8,091,113	11,050	4,071,953	61,835	1,668,813	2,941,541	60,608,574	118,567,686	57,959,112	51%		
2035	4	174	60,608,574	8,150,382	11,102	3,956,733	49,216	1,708,152	2,969,990	61,131,181	116,449,749	55,318,568	52%		
2036	3	171	61,131,181	8,218,600	11,144	3,843,263	35,320	1,746,864	2,992,246	61,519,130	114,068,618	52,549,488	54%		
2037	2	168	61,519,130	8,249,287	11,175	3,725,464	23,573	1,785,972	3,008,651	61,802,328	111,464,706	49,662,378	55%		
2038	1	164	61,802,328	8,212,603	11,196	3,621,260	16,656	1,823,248	3,021,893	62,061,587	108,725,229	46,663,642	57%		
2039	1	160	62,061,587	8,149,112	11,204	3,542,876	11,578	1,859,319	3,035,253	62,350,297	105,882,358	43,532,061	59%		
2040	0	155	62,350,297	8,064,513	11,202	3,475,814	7,832	1,895,811	3,050,930	62,704,970	102,960,701	40,255,731	61%		
2041	0	151	62,704,970	7,962,812	11,188	3,416,736	5,100	1,932,062	3,070,545	63,155,415	99,980,232	36,824,817	63%		
2042	0	147	63,155,415	7,846,804	11,162	3,363,045	3,164	1,968,855	3,095,468	63,727,981	96,957,708	33,229,727	66%		
2043	0	142	63,727,981	7,716,914	11,126	3,314,571	2,059	2,005,123	3,126,976	64,448,669	93,910,454	29,461,785	69%		
2044	0	138	64,448,669	7,578,857	11,080	3,269,374	1,294	2,042,871	3,166,217	65,338,489	90,847,695	25,509,206	72%		
2045	0	133	65,338,489	7,435,222	11,024	3,225,171	679	2,081,917	3,214,115	66,414,126	87,775,232	21,361,106	76%		
2046	0	129	66,414,126	7,286,669	10,960	3,179,355	217	2,123,546	3,271,452	67,691,067	84,698,630	17,007,563	80%		
2047	0	125	67,691,067	7,132,861	10,888	3,131,687	0	2,167,871	3,339,011	69,185,888	81,624,553	12,438,665	85%		
2048	0	120	69,185,888	6,974,697	10,809	3,082,741	0	2,214,678	3,417,606	70,915,407	78,558,842	7,643,435	90%		
2049	0	116	70,915,407	6,814,782	10,725	3,032,605	0	2,263,804	3,508,010	72,894,319	75,503,709	2,609,390	97%		
2050	0	112	72,894,319	6,653,428	10,635	3,683,359	0	2,316,104	3,546,439	72,461,158	72,461,158	0	100%		
2051	0	108	72,461,158	6,490,900	10,541	3,462,765	0	2,362,765	3,599,898	69,433,023	69,433,023	0	100%		
2052	0	104	69,433,023	6,327,358	10,442	3,252,442	0	2,411,397	3,654,397	66,421,062	66,421,062	0	100%		
2053	0	100	66,421,062	6,162,865	10,340	3,032,340	0	2,468,861	3,718,861	63,427,058	63,427,058	0	100%		
2054	0	96	63,427,058	5,997,373	10,233	2,823,233	0	2,523,247	3,783,247	60,452,932	60,452,932	0	100%		
2055	0	93	60,452,932	5,830,678	10,121	2,602,121	0	2,578,658	3,850,912	57,500,912	57,500,912	0	100%		
2056	0	89	57,500,912	5,662,538	10,004	2,375,004	0	2,635,209	3,918,583	54,573,583	54,573,583	0	100%		
2057	0	86	54,573,583	5,492,729	9,880	2,152,880	0	2,693,036	3,983,890	51,673,890	51,673,890	0	100%		
2058	0	82	51,673,890	5,320,991	9,749	1,930,749	0	2,742,292	4,048,191	48,805,191	48,805,191	0	100%		

Actuarial Projections, Table 2

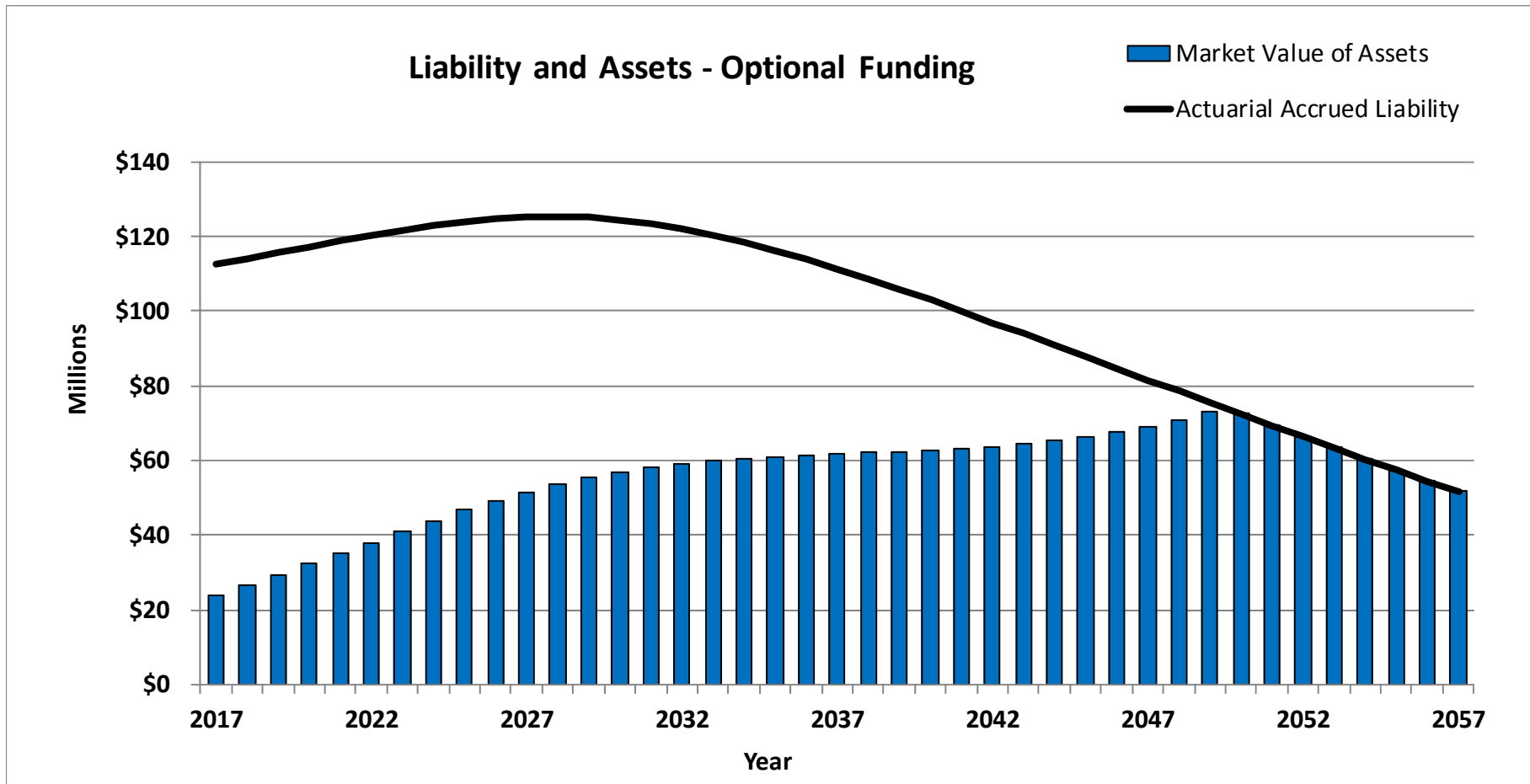
Employer Contributions

Valuation Plan Year End 30-Jun ^a	Closed Group Payroll	Active Employee Contributions	Gross Normal Cost	Net Employer Normal Cost	Amortization of UAAL	Premium Tax Allocation Contributions	Net Employer Amortization	Expenses	Employer Contribution Closed Plan
2018	\$3,782,913	\$264,804	1,761,439	1,496,635	\$5,452,576	\$1,109,807	\$4,342,769	\$9,418	5,848,822
2019	3,781,571	264,710	1,754,097	1,489,387	5,433,269	1,150,327	4,282,942	9,551	5,781,880
2020	3,763,067	263,415	1,737,208	1,473,793	5,431,565	1,178,129	4,253,436	9,678	5,736,907
2021	3,762,196	263,354	1,730,893	1,467,539	5,430,436	1,206,351	4,224,085	9,800	5,701,424
2022	3,764,601	263,522	1,727,247	1,463,725	5,429,950	1,233,553	4,196,397	9,919	5,670,042
2023	3,724,414	260,709	1,706,963	1,446,254	5,429,672	1,266,076	4,163,596	10,034	5,619,884
2024	3,563,564	249,449	1,631,122	1,381,673	5,428,453	1,304,719	4,123,734	10,147	5,515,554
2025	3,333,345	233,334	1,521,651	1,288,317	5,423,839	1,343,345	4,080,494	10,259	5,379,070
2026	3,045,431	213,180	1,386,324	1,173,144	5,416,827	1,385,985	4,030,842	10,365	5,214,351
2027	2,755,215	192,865	1,249,658	1,056,793	5,407,877	1,425,166	3,982,711	10,467	5,049,971
2028	2,522,747	176,592	1,138,960	962,368	5,398,484	1,464,682	3,933,802	10,566	4,906,736
2029	2,239,146	156,740	1,004,418	847,678	5,390,503	1,507,661	3,882,842	10,660	4,741,180
2030	1,924,681	134,728	855,554	720,826	5,380,808	1,548,152	3,832,656	10,753	4,564,235
2031	1,594,282	111,600	702,337	590,737	5,369,694	1,591,419	3,778,275	10,839	4,379,851
2032	1,275,819	89,307	557,260	467,953	5,357,822	1,632,286	3,725,536	10,918	4,204,406
2033	1,058,930	74,125	457,799	383,674	5,346,104	1,668,813	3,677,291	10,988	4,071,953
2034	883,361	61,835	378,240	316,405	5,337,430	1,708,152	3,629,278	11,050	3,956,733
2035	703,084	49,216	297,962	248,746	5,330,279	1,746,864	3,583,415	11,102	3,843,263
2036	504,574	35,320	212,702	177,382	5,322,910	1,785,972	3,536,938	11,144	3,725,464
2037	336,760	23,573	142,153	118,580	5,314,753	1,823,248	3,491,505	11,175	3,621,260
2038	237,941	16,656	100,231	83,575	5,307,424	1,859,319	3,448,105	11,196	3,542,876
2039	165,406	11,578	69,503	57,925	5,302,496	1,895,811	3,406,685	11,204	3,475,814
2040	111,884	7,832	46,745	38,913	5,298,684	1,932,062	3,366,622	11,202	3,416,736
2041	72,863	5,100	30,207	25,107	5,295,606	1,968,855	3,326,751	11,188	3,363,045
2042	45,201	3,164	18,578	15,414	5,293,117	2,005,123	3,287,994	11,162	3,314,571
2043	29,416	2,059	12,052	9,993	5,291,126	2,042,871	3,248,255	11,126	3,269,374
2044	18,488	1,294	7,548	6,254	5,289,755	2,081,917	3,207,838	11,080	3,225,171
2045	9,706	679	3,896	3,217	5,288,660	2,123,546	3,165,114	11,024	3,179,355
2046	3,102	217	1,220	1,003	5,287,596	2,167,871	3,119,725	10,960	3,131,687
2047	0	0	0	0	5,286,531	2,214,678	3,071,853	10,888	3,082,741
2048	0	0	0	0	5,285,600	2,263,804	3,021,796	10,809	3,032,605
2049	0	0	0	0	5,284,886	2,316,104	2,968,782	10,725	368,359 ^b
2050	0	0	0	0	0	0	0	10,635	10,541 ^b
2051	0	0	0	0	0	0	0	10,541	10,442 ^b
2052	0	0	0	0	0	0	0	10,442	10,340 ^b
2053	0	0	0	0	0	0	0	10,340	10,233 ^b
2054	0	0	0	0	0	0	0	10,233	10,121 ^b
2055	0	0	0	0	0	0	0	10,121	10,004 ^b
2056	0	0	0	0	0	0	0	10,004	9,880 ^b
2057	0	0	0	0	0	0	0	9,880	9,749 ^b

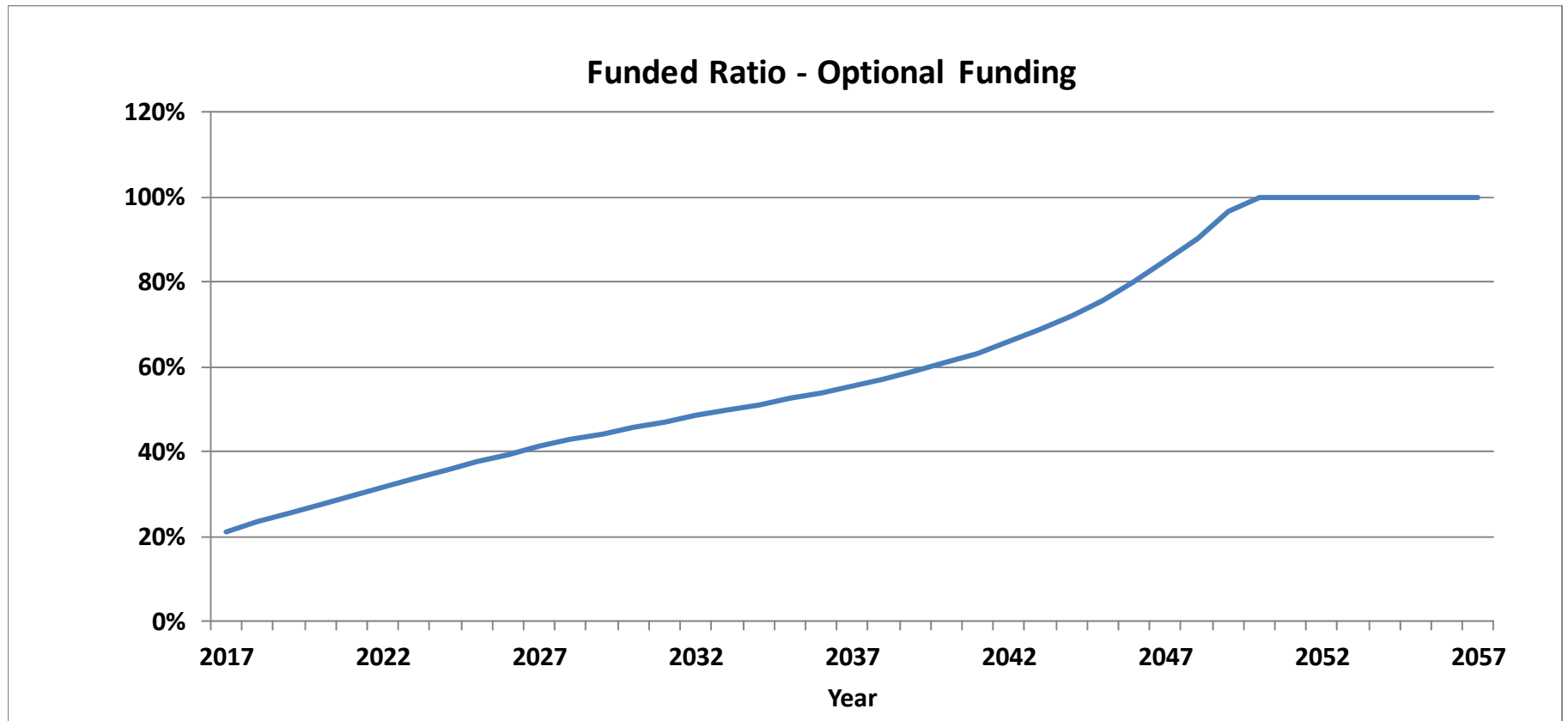
^a Assumes employer makes contributions for the applicable valuation plan year in the following fiscal year.

^b Amount required to remain at 100% funded.

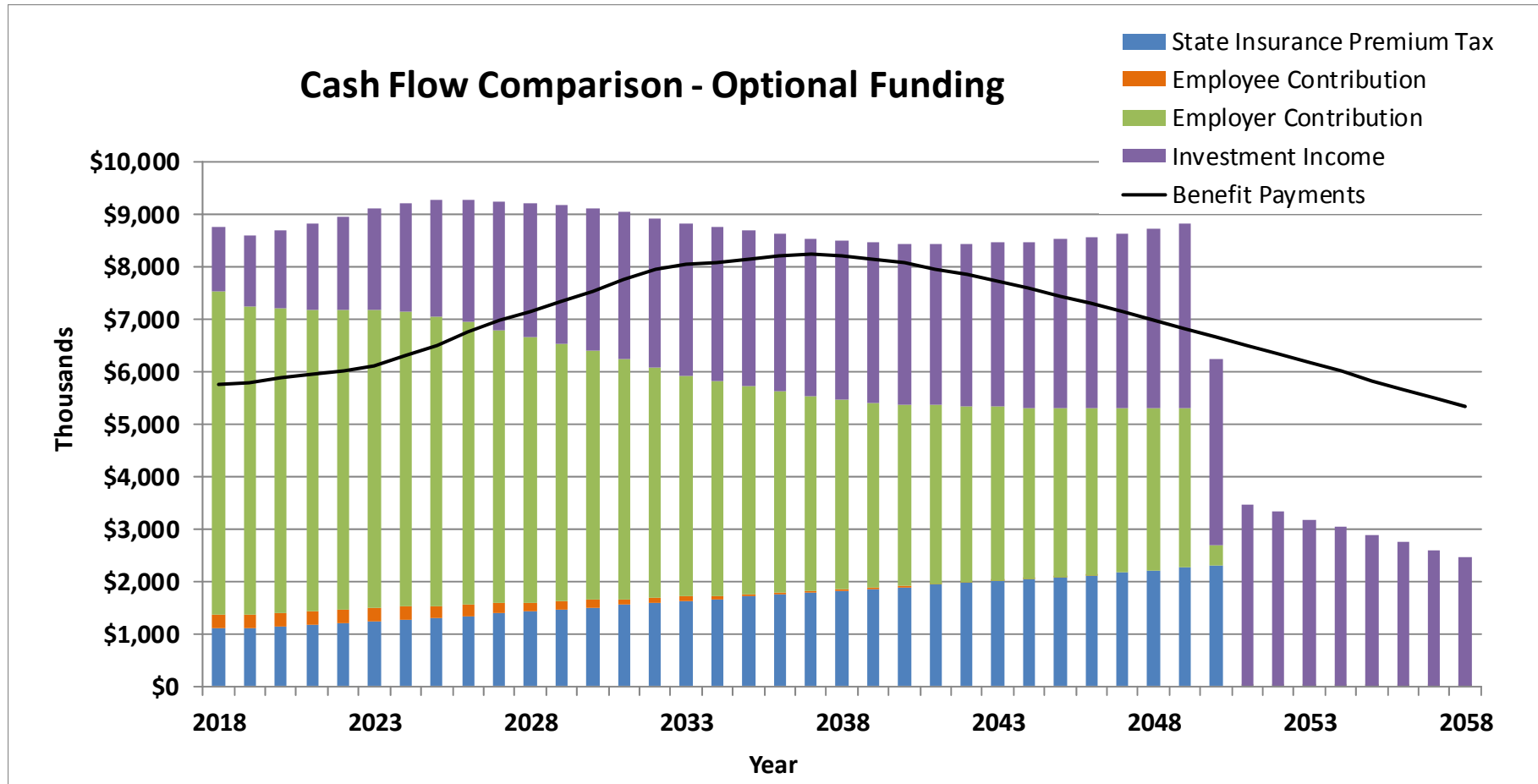
Actuarial Projections, Graph 1



Actuarial Projections, Graph 2



Actuarial Projections, Graph 3



SECTION III

ACTUARIALLY DETERMINED CONTRIBUTION FOR GASB STATEMENT NOS. 67 AND 68 REPORTING

Actuarially Determined Contribution for GASB Statement Nos. 67 and 68 Reporting Schedule C: Funding Progress and Employer Contributions

	July 1, 2016	July 1, 2017
Valuation Date		
Valuation Interest Rate	4.50%	5.00%
Cost-of-Living Adjustment	2.75%	2.75%
Wage Inflation	3.75%	3.75%
Actuarial Value of Assets	Market	Market
Actuarial Cost Method	Entry Age Normal	Entry Age Normal
Remaining Amortization Period ^a	24 Years, Level % of Pay	23 Years, Level % of Pay
Schedule of Funding Progress		
	July 1, 2016	July 1, 2017
Actuarial Valuation Date		
1. Market Value of Assets	\$20,503,236	\$23,716,201
2. Actuarial Accrued Liability	\$118,354,490	\$112,574,537
3. Unfunded Actuarial Accrued Liability (2 - 1)	\$97,851,254	\$88,858,336
4. Funded Ratio (1/2)	17%	21%
5. Expected Payroll	\$3,623,803	\$3,782,913
6. UAAL as Percentage of Covered Payroll (3/5)	2,700%	2,349%
Schedule of Employer Contributions ^c		
	FYE 2017	FYE 2018
1. Actuarially Determined Contribution		
(a) Employer Normal Cost	\$1,676,423	\$1,506,053
(b) Amortization of Unfunded Actuarial Accrued Liability	\$4,423,740	\$4,393,534
(c) Actuarially Determined Contribution (ADC) (a + b)	\$6,100,163	\$5,899,587
2. Employer Contribution ^b	\$6,266,667	\$6,155,149
3. Premium Tax Allocation	\$1,135,084	\$1,107,233
4. Percentage of ADC Contributed [(2 + 3)/1(c)]	121%	123%

^a Suggested amortization policy to comply with GASB Statement Nos. 67 and 68 Standards.

^b Estimated employer contribution for fiscal year ended June 30, 2018.

^c Satisfies the Actuarially Determined Contribution as defined by GASB Statement Nos. 67 and 68.

SECTION IV

ACTUARIAL VALUATION DATA AS OF JULY 1, 2017

Actuarial Valuation Data as of July 1, 2017

Schedule D: Reconciliation of Assets

Plan Year Ending	June 30, 2016	June 30, 2017
A. Market Value of Assets Beginning of Year	\$18,612,247	\$20,503,236
Adjustment to Market Value of Assets at Beginning of Year	\$0	\$0
Market Value of Assets Beginning of Year	\$18,612,247	\$20,503,236
1. Revenue During Fiscal Year		
(a) Employee Contribution	\$283,660	\$263,139
(b) Governmental Contribution		
(i) From Local Government	\$2,616,768	\$3,133,334
(ii) From State Government	\$561,085	\$567,542
(iii) Reallocation from State Government	\$0	\$0
(iv) Total	\$3,177,853	\$3,700,876
(c) Earnings on Investments		
(i) Net Appreciation/(Depreciation)	\$404,016	\$829,998
(ii) Bond Interest	\$116,360	\$121,907
(iii) Dividends	\$295,372	\$306,435
(iv) Net Realized Gain (Loss) on Sale/Exchange	\$0	\$0
(v) Other	\$0	\$3,212
(vi) Less Investment Expense	\$0	\$0
(vii) Total	\$815,748	\$1,261,552
(d) Other Revenue	\$584	\$0
(e) Receivable Investment Income/(Expense)	\$0	\$0
(f) Receivable Contribution ^a		
(i) From Employee Contributions	\$0	\$9,890
(ii) From Local Government	\$2,616,768	\$3,133,333
(iii) From State Government	\$561,086	\$567,542
(iv) Total	\$3,177,854	\$3,710,765
(g) Total Revenue (sum of (a) through (f))	\$7,455,699	\$8,936,332
2. Expenditures During Fiscal Year		
(a) Benefits Paid	\$5,474,416	\$5,660,582
(b) Withdrawals	\$31,367	\$0
(c) Administrative Expenses	\$58,927	\$54,179
(d) Payable Benefits and Withdrawals	\$0	\$0
(e) Payable Administrative Expenses	\$0	\$8,606
(f) Total Expenditures (sum of (a) through (e))	\$5,564,710	\$5,723,367
B. Market Value of Assets End of Year		
[A + 1(g) - 2(f)]	\$20,503,236	\$23,716,201
C. Approximate Return on Assets	4.67%	6.69%

^a Receivable contributions for each respective plan year ending.

Actuarial Valuation Data as of July 1, 2017

Schedule E: Assets Held by Category

Plan Year Ending	June 30, 2016		June 30, 2017	
1. Cash and Short-term Investments	\$1,065,443	5%	\$1,881,244	8%
2. Government Securities				
(a) US Treasury Bills, Notes and Bonds	\$1,001,496		\$868,818	
(b) US State and Local Governmental Debt Securities	\$623,322		\$390,234	
(c) Foreign Governmental Debt Securities	\$0		\$0	
(d) Other	\$0		\$0	
(e) Total Government Securities (sum of (a) through (d))	\$1,624,818	8%	\$1,259,052	5%
3. Corporate Fixed Income				
(a) US Bonds	\$4,648,594		\$4,237,916	
(b) US Mortgage or other Asset Backed Securities	\$0		\$85,337	
(c) US Mutual Fund Shares (Bonds)	\$767,459		\$1,344,175	
(d) US Exchange Traded Funds (Bonds)	\$681,034		\$647,945	
(e) International Bonds	\$50,014		\$0	
(f) International Mutual Fund Shares (Bonds)	\$0		\$0	
(g) International Exchange Traded Funds (Bonds)	\$0		\$0	
(h) Total Corporate Fixed Income (sum of (a) through (g))	\$6,147,101	30%	\$6,315,373	26%
4. Corporate Equity				
(a) US Equity	\$7,093,583		\$8,546,434	
(b) US Mutual Fund Shares (Equity)	\$365,168		\$697,354	
(c) US Exchange Traded Funds (Equity)	\$584,156		\$699,657	
(d) International Equity	\$21,169		\$0	
(e) International Mutual Fund Shares (Equity)	\$227,260		\$290,251	
(f) International Exchange Traded Funds (Equity)	\$196,684		\$324,677	
(g) Total Corporate Equity (sum of (a) through (f))	\$8,488,020	41%	\$10,558,373	45%
5. Alternative Investments				
(a) Real Estate Investment Trust	\$0		\$0	
(b) Private Equity Fund	\$0		\$0	
(c) Hedge Funds	\$0		\$0	
(d) Other Alternative Investments	\$0		\$0	
(e) Total Alternative Investments (sum of (a) through (d))	\$0	0%	\$0	0%
6. Other	\$0	0%	\$0	0%
7. Receivable Contributions	\$0			
(a) From Employee Contributions	\$0		\$9,890	
(b) From Local Government	\$2,616,768		\$3,133,333	
(c) From State Government	\$561,086		\$567,542	
(d) Total Receivable Contributions (sum of (a) through (c))	\$3,177,854	16%	\$3,710,765	16%
8. Accruals				
(a) Receivable (other than State and Local Contributions)	\$0		\$0	
(b) Less Payable	\$0		(\$8,606)	
(c) Total	\$0	0%	(\$8,606)	0%
Market Value of Assets End of Year	\$20,503,236		\$23,716,201	
[sum of (1) through (8)]				

Actuarial Valuation Data as of July 1, 2017

Schedule F: Summary of Participant Activity

	Actives	Retirees	Disabled	Deferred Vested	Spouses and Beneficiaries	Totals
Total Participants July 1, 2016:	73	118	22	2	39	254
New Actives:						0
Returned to Actives Status:						0
Data Corrections/Other Changes:						0
Vested Terminations:	(1)			1		0
Non-Vested Terminations:						0
Disabled:						0
Retirements:	(2)	2				0
Deaths with Beneficiary:			(1)		1	0
Deaths w/o Beneficiary:		(3)	(1)		(5)	(9)
Expired Annuity or Stop Payment:						0
Net Changes:	(3)	(1)	(2)	1	(4)	(9)
Total Participants June 30, 2017:	70	117	20	3	35	245

Actuarial Valuation Data as of July 1, 2017

Schedule G: Distribution of Active Employees by Age and Length of Service

Attained Age	Years of Service to Valuation Date									Totals	Valuation Payroll ^a
	Less than 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 35		
Under 20											\$ 0
20-24											\$ 0
25-29											\$ 0
30-34			7							7	\$ 382,099
35-39			3	14	1					18	\$ 948,453
40-44			2	6	18	6				32	\$ 1,685,460
45-49			1	1	6	2				10	\$ 543,753
50-54						3				3	\$ 201,863
55-59											\$ 0
60-64											\$ 0
65-69											\$ 0
Over 70											\$ 0
Totals	0	0	13	21	25	11	0	0	0	70	\$ 3,761,629
Averages _____											
Age: 41.4 years											
Service: 14.9 years											
Annual Pay: \$53,738 ^a											

^a Based on payroll at beginning of plan year.

Actuarial Valuation Data as of July 1, 2017

Schedule H: Participants Summary

Active Participants	July 1, 2016	July 1, 2017
Number of Actives	73	70
Total Annual Pay	\$3,619,011	\$3,761,629
Average Age	40.8	41.4
Average Service	14.2	14.9

Inactive Participants	July 1, 2016		July 1, 2017	
Type	No.	Annual Benefit	No.	Annual Benefit
Retirees	118	\$4,562,444	117	\$4,578,572
Survivors	39	\$653,746	35	\$619,217
Disabled Members	22	\$469,025	20	\$436,969
Deferred Vested Members	2	\$75,222	3	\$126,668

**Data provided includes 2 non-vested members with accumulated contributions balances of \$30,489.*

SECTION V

ACTUARIAL ASSUMPTIONS AND METHODS

Actuarial Assumptions and Methods Used in the Valuation as of July 1, 2017

Discount Rate

The following table outlines the factors used to determine the discount rate:

Funded Ratio as of Valuation Date ¹	Liquidity Ratio ²	Equity Exposure ³	Projected Funded Ratio after 15 Years ¹	Discount Rate
60% or more	10	50% or more	70% or more	6.5%
40% or more	8	40% or more	60% or more	6.0%
30% or more	6	30% or more	50% or more	5.5%
15% or more	4	n/a	40% or more	5.0%
Less than 15%	n/a	n/a	15% or more	4.5%
Less than 15%	n/a	n/a	Less than 15%	4.0%

¹Funded ratios based on a 6.0% investment return assumption for plans using an actuarially sound policy (standard or optional) and a 5.5% investment return assumption for other plans (alternative or conservation).

²Liquidity ratio equals assets as of the actuarial valuation date divided by expected benefit payments for the year.

³Based on investment policy.

As of June 30, 2017	
Assets	\$23,716,201
Liabilities using a 6.00% Discount Rate	\$99,200,511
Funded Ratio	24%
Expected Benefit Payments	\$5,742,536
Liquidity Ratio	4.13
Equity Exposure	45%
Projected Funded Ratio after 15 years	50%

Discount Rate

5.00%

Actuarial Assumptions and Methods Used in the Valuation as of July 1, 2017 (Continued)

The premium tax allocation is projected using the following methodology:

- (1) The Base Allocation for all Pension and Relief Funds is a fixed amount equal to \$8,709,689 in all future years. This amount is allocated to each individual Pension and Relief Fund in proportion to the number of eligible members, which includes active members covered in either the Pension and Relief Fund or the statewide plan, Municipal Police Officers and Firefighters Retirement System (“MPFRS”).
- (2) The Excess Allocation is equal to the excess of the current year premium tax assigned to all Pension and Relief Funds over the total Base Allocation. This amount is allocated to each individual Pension and Relief Fund in proportion to the number of eligible active and retired members covered in either the Pension and Relief Fund or the MPFRS.
- (3) We have assumed all Pension and Relief Funds will make the minimum statutory contribution requirement and will receive 100% of both the Base Allocation and the Excess Allocation assigned to the individual plan. Consequently, the projections do not include any reallocation of Expired Premium Tax Allocation for plan years beginning on and after July 1, 2019.
- (4) The total available premium tax allocation, net of expenses, as of September 1, 2018, includes a Base Allocation of \$8,709,689, an Excess Allocation of \$9,570,473, and an Expired Premium Tax Allocation of \$237,031.
- (5) For the plan year ending June 30, 2018, all Pension and Relief Funds reported a total of 1,717 eligible active members and 2,165 eligible retired members. The City of Huntington Firemen’s Pension and Relief Fund reported 88 eligible active members and 176 eligible retired members, based on the average number of plan participants for the 12-month period ending June 30, 2018. The Fund is eligible to receive a premium tax allocation of \$1,109,807 for the fiscal year ending June 30, 2019.
- (6) The total premium tax allocation was assumed to increase by 2.75% in calendar years ending on and after 2019.

Actuarial Assumptions and Methods Used in the Valuation as of July 1, 2017 (Continued)

General Inflation	2.75%																		
Expected Salary Increase	General Inflation: 2.75% <i>plus</i>																		
Service-based Increase:	Wage Inflation Increment: 1.00% <i>plus</i>																		
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Years of Service</th> <th style="text-align: right; border-bottom: 1px solid black;">Increase</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: right;">20.00%</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: right;">6.50%</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: right;">3.50%</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: right;">2.75%</td> </tr> <tr> <td style="text-align: center;">5-9</td> <td style="text-align: right;">2.50%</td> </tr> <tr> <td style="text-align: center;">10-29</td> <td style="text-align: right;">2.00%</td> </tr> <tr> <td style="text-align: center;">30-34</td> <td style="text-align: right;">1.25%</td> </tr> <tr> <td style="text-align: center;">after 34 years of service</td> <td style="text-align: right;">0.00%</td> </tr> </tbody> </table>	Years of Service	Increase	1	20.00%	2	6.50%	3	3.50%	4	2.75%	5-9	2.50%	10-29	2.00%	30-34	1.25%	after 34 years of service	0.00%
Years of Service	Increase																		
1	20.00%																		
2	6.50%																		
3	3.50%																		
4	2.75%																		
5-9	2.50%																		
10-29	2.00%																		
30-34	1.25%																		
after 34 years of service	0.00%																		
Post-retirement COLA	2.75% on first \$15,000 of Annual Benefit and on the accumulated supplemental pension amounts for prior years. Assumed to be payable to all members receiving payments.																		
Increase in State Insurance Premium Tax Allocation	2.75% on and after year 1																		
Cost Method	Entry-Age-Normal, Level-Percentage-of-Pay																		
<p><i>Amortization Policies:</i></p> <p>Alternative Plans and former Alternative Plans that selected the Conservation Policy</p> <p>Standard Plans and former Standard Plans that selected the Optional Policy</p> <p>Former Alternative Plans that selected the Optional Policy</p>	<p>For GASB 67/68 Accounting: 30 – Year Closed Level-Percentage-of-Pay Amortization (from July 1, 2010 – 23 years remaining as of July 1, 2017).</p> <p>For funding and GASB 67/68 Accounting: 40-Year Closed Level-Dollar Amortization (from July 1, 1991 – 14 years remaining as of July 1, 2017)</p> <p>For funding: 40-Year Closed Level-Dollar Amortization (from January 1, 2010 – 32.5 years remaining as of July 1, 2017). For GASB 67/68 Accounting: 30-Year Closed Level-Percentage-of-Pay Amortization (from July 1, 2010 – 23 years remaining as of July 1, 2017)</p>																		

Actuarial Assumptions and Methods Used in the Valuation as of July 1, 2017 (Continued)

Asset Method	Market Value										
Turnover	<p>Sample Rates –</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;"><u>Age</u></th> <th style="text-align: center;"><u>Rates</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">25</td> <td style="text-align: center;">9%</td> </tr> <tr> <td style="text-align: center;">35</td> <td style="text-align: center;">4%</td> </tr> <tr> <td style="text-align: center;">45</td> <td style="text-align: center;">2%</td> </tr> <tr> <td style="text-align: center;">50</td> <td style="text-align: center;">0%</td> </tr> </tbody> </table>	<u>Age</u>	<u>Rates</u>	25	9%	35	4%	45	2%	50	0%
<u>Age</u>	<u>Rates</u>										
25	9%										
35	4%										
45	2%										
50	0%										
Retirement	<table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;"><u>Age</u></th> <th style="text-align: center;"><u>Rates^a</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">50</td> <td style="text-align: center;">45%</td> </tr> <tr> <td style="text-align: center;">51-55</td> <td style="text-align: center;">30%</td> </tr> <tr> <td style="text-align: center;">56-59</td> <td style="text-align: center;">35%</td> </tr> <tr> <td style="text-align: center;">60</td> <td style="text-align: center;">100%</td> </tr> </tbody> </table> <p>^aTerminated vested participants are assumed to retire at age 50.</p>	<u>Age</u>	<u>Rates^a</u>	50	45%	51-55	30%	56-59	35%	60	100%
<u>Age</u>	<u>Rates^a</u>										
50	45%										
51-55	30%										
56-59	35%										
60	100%										
Mortality	<p>Active: RP-2014 Blue Collar Healthy Employee^b</p> <p>Post-Retirement: RP-2014 Blue Collar Healthy Annuitant</p> <p>Disabled: RP-2014 Blue Collar Healthy Annuitant set forward four years</p> <p>Tables above incorporate generational mortality improvement using MP-2014 2-dimensional mortality improvement scales</p> <p>^bAssumes 10% of deaths are duty-related and 90% are non-duty related.</p>										
Disability	<p>Sample Rates –</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;"><u>Age</u></th> <th style="text-align: center;"><u>Rates^c</u></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">0.22%</td> </tr> <tr> <td style="text-align: center;">40</td> <td style="text-align: center;">0.50%</td> </tr> <tr> <td style="text-align: center;">50</td> <td style="text-align: center;">0.79%</td> </tr> </tbody> </table> <p>^cAssumes 60% duty related and 40% non-duty related. Also assumes 10% of non-duty disabled members receive a 20% reduction in benefits due to gainful employment.</p>	<u>Age</u>	<u>Rates^c</u>	30	0.22%	40	0.50%	50	0.79%		
<u>Age</u>	<u>Rates^c</u>										
30	0.22%										
40	0.50%										
50	0.79%										
Percent Married	90%										
Spouse Age	Females 3 years younger than males										

Actuarial Assumptions and Methods Used in the Valuation as of July 1, 2017 (Continued)

Administrative Expenses	The sponsor did not appear to provide separate investment and administrative expenses. Plan year 2018 administrative expenses assumed to be equal to 15% of all reported 2017 expenses. Future expenses assumed to increase by the general inflation assumption.
Refunds Paid	Assumes non-vested inactive members as of July 1, 2017, with accumulated member contribution balances will receive a refund of their contributions during plan year end June 30, 2018.
Data Adjustments and Assumptions	None
Child Beneficiaries	Future survivor widow benefits are loaded by 12% to estimate impact of benefits provided to survivor children. The load assumes 90% of members are married with two children at time of death, and benefits for each child are paid for approximately 8 years.
General Projection Methodology	Closed group projections assume: <ul style="list-style-type: none"> (i) Salaries will increase and members will decrement as specified in the actuarial assumption section. (ii) Assets grow at the assumed rate of return. (iii) The sponsor makes the statutory required contribution on a timely bases. (iv) Non-vested members with accumulated plan balances as of July 1, 2017, will receive a refund during plan year end June 30, 2018.
Decrement Timing	Mid-Year

SECTION VI

SUMMARY OF PRINCIPAL PLAN PROVISIONS

Summary of Principal Plan Provisions

Actuarial Valuation as of July 1, 2017

Employee Eligibility — All compensated employees of the Fire Department hired before January 1, 2010 are eligible to participate in the City of Huntington Firemen’s Pension and Relief Fund.

Average Annual Compensation — The average of any three twelve-consecutive-month periods of employment which produces the highest average annual compensation.

Each twelve-consecutive-month annual compensation is limited to 120% of the *Average Adjusted Salary* received by the member in the two consecutive twelve-consecutive-month periods immediately preceding the twelve-consecutive-month period used in determining benefits.

The *Average Adjusted Salary* is base salary (exclusive of all overtime and other pay) of the year used in determining benefits multiplied by the ratio of total salary (includes all overtime and other pay) to base salary from the respective preceding twelve-consecutive-month period.

Determining Years of Service Credit (Credited Service) — The number of years that the member has contributed to the employees retirement and benefit fund.

Prior Military Service — A city may provide that members who have been honorably discharged from the military shall receive up to two years prior service credit for military service prior to their employment with the city.

Current Military Service — Any current member who has been on qualified military service in the armed forces of the United States with an honorable discharge may, within six months from his or her date of discharge, be given credit for continuous service in the paid police or fire department.

Any member who has served in active duty with the armed forces of the United States, whether prior to or subsequent to becoming a member of a paid police or fire department, shall receive one additional percent for each year so served in active military duty, up to a maximum of four additional percent.

Absence from the service because of sickness or injury for a period of two years or less shall not be construed as time out of service.

Contributions — Participating employees contribute 7.0% of compensation. Participating employees hired on or after January 1, 2010 contribute 9.5% of pay. The municipality has elected to contribute the minimum employer contribution under the Optional funding policy.

Normal Retirement — Members are eligible at the earlier of age 50 with 20 years of credited service or age 65.

Benefit Commencement — Annual retirement pension benefits commence upon retirement or upon the member attaining age fifty, whichever is later, payable in twelve monthly installments.

Summary of Principal Plan Provisions

Actuarial Valuation as of July 1, 2017 (Continued)

Accrued Benefit — The annual retirement benefit equals 60% of average annual compensation, not less than \$6,000, plus an additional percentage of average annual compensation for service over 20 years equal to 2% for each year of service between 20 and 25 and 1% for each year of service between 25 and 30 years. Employees serving in the military are eligible for an additional 1% of average annual compensation for each year of military service up to four years. The maximum benefit is limited to 75% of average annual compensation. Benefits continue for life.

Disability Retirement — Members are eligible after earning five years of service. No service requirement if disability is service related.

The monthly disability benefit equals the greater of 60% of monthly salary at disability or \$500. Employees serving in the military are eligible for an additional benefit of 1% of monthly salary at disability for each year of military service up to four years. Disability benefits, when aggregated with monthly state workers compensation benefits, shall not exceed 100% of the member's monthly compensation at the time of disability. Benefits continue for life or until recovery.

Death Benefits — Members are eligible after earning five years of service. No service requirement if death is service related. Retirees and terminated vested participants are also eligible.

The benefit is equal to 60% of the participant's benefit, but not less than \$300 per month, payable to the spouse until death or remarriage. Other dependents (children, parents, brothers and sisters) are also eligible for death benefits. To each dependent child, twenty percent of the participant's benefit until the child attains 18 or marries; to each dependent orphaned child, 25 percent of the participant's benefit until the child attains 18 or marries; to each dependent parent, 10 percent of the participant's benefit for life, and to each dependent brother or sister, the sum of 50 dollars per month (but a total not to exceed \$100 per month) until such individual attains the age of 18 years or marries.

In no case shall the payments to the surviving spouse and children be reduced below 65 percent of the total amount paid to all dependents.

Supplemental Pension Benefits — All retirees, surviving beneficiaries and disability pensioners are eligible for automatic cost-of-living benefits commencing on the first day of July following two years of retirement. The benefits equal the percentage increase in the Consumer Price Index, limited to 4% (2% for some disability retirees), multiplied by the sum of the allowable amount which is the first \$15,000 of the total annual benefits paid and the accumulated supplemental pension amounts for prior years.

Termination Benefits — Any member who terminates employment prior to retirement will be entitled to a refund of contributions without interest.

Refunds — Any member who terminates from their department without receiving a retirement pension shall be refunded all deductions made from his salary, without interest.