## City Of Huntington, West Virginia Policemen'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 Sgt. Michael L. Chornobay
Pension Board Secretary
City of Huntington Policemen's Pension and Relief Fund

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

Dear Ms. Moore and Sgt. Chornobay:

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 Policemen'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 5.50%. 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

alex Rivera

**Senior Consultant** 

Lance Weiss, EA, MAAA, FCA

Laney win

**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 Policemen'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;
  - o 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 40year 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.



The following table provides the Plan's funded status:

Funded Status as of:	July 1, 2017
Assets	\$33,533,797
Actuarial Accrued Liability	\$97,152,732
Unfunded Actuarial Accrued Liability	\$63,618,935
Funded Ratio	34.52%

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	\$4,483,206
Employer Normal Cost for PYE 06/30/2017	\$1,480,214
Employer Normal Cost Rate for PYE 06/30/2017	33.0%
Amortization of Unfunded Actuarial Liability for PYE 06/30/2017	\$4,196,450
State Insurance Premium Tax Allocation for FYE 06/30/2018	\$1,098,776
Employer Contribution for FYE 06/30/2018	\$4,577,888

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	\$4,225,541
Employer Normal Cost for Active Members for PYE 06/30/2018	\$1,402,116
Employer Normal Cost Rate for PYE 06/30/2018	33.2%
Amortization of Unfunded Actuarial Liability for PYE 06/30/2018	\$4,131,769
State Insurance Premium Tax Allocation for FYE 06/30/2019	\$1,053,495
Estimated Employer Contribution for FYE 06/30/2019 °	\$4,480,390

<sup>&</sup>lt;sup>a</sup> 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.



#### **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 1<sup>st</sup> 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.



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 remained the same for the July 1, 2016 and July 1, 2017 actuarial valuations.
  - o 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 37% (using a testing interest rate of 6.00% for all plans using the Optional funding policy), ratio of assets to benefits of 7.35, equity allocation of 33%, and 15-year projected funded ratio of 59%, resulted in a discount rate assumption of 5.50%.
- The Fund experienced an approximate annualized return of 7.10% on the market value of assets during the plan year ended June 30, 2017, which compares to the expected annualized return of 5.50%. The difference in actual versus expected return produced an asset (gain)/loss of (\$440,898).
- 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 (\$639,606) due to these events.



#### **Optional Funding**

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 5.50%:

- The funded ratio is projected to increase from 35% at June 30, 2017, to 55% at June 30, 2030, to 67% at June 30, 2040, and 100% at June 30, 2050.
- Employer contributions are expected to decrease steadily from \$4,480,390 for the fiscal year end June 30, 2019, to \$1,824,343 for fiscal year end June 30, 2049.

Please note that a funded ratio of only 35% at June 30, 2017, means that the Plan is underfunded. Although the Plan is projected to be 100% funded by 2050, the funded ratio is only projected to reach 50% in 2026 and 70% in 2042.

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 5.50%, the funded ratio will be lower and the cash flow strain will be higher. If another significant market downtown 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 5.50%, 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*.
- 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		5.50%		5.50%
Cost-of-Living Adjustment		2.75%		2.75%
Wage Inflation		3.75%		3.75%
Expected Payroll		\$4,483,206		\$4,225,541
Average Pay		\$63,144		\$66,024
Expected Benefit Payments		\$4,454,246		\$4,564,477
1. Actuarial Accrued Liability	<u>No.</u>		<u>No.</u>	
(a) Actives	71	\$33,279,464	64	\$32,106,461
(b) Retirees	95	\$53,050,215	92	\$52,934,287
(c) Survivors	29	\$5,054,497	26	\$5,289,043
(d) Disabled Members	9	\$2,927,588	12	\$3,881,358
(e) Deferred Vested Members	2	\$1,009,978	4	\$2,941,583
(f) Total	206	\$95,321,742	198	\$97,152,732
2. Present Value of Future Normal Costs		\$13,866,712		\$12,487,387
3. Present Value of Benefits (1(f) + 2)		\$109,188,454		\$109,640,119
4. Market Value of Assets		\$29,989,819		\$33,533,797
5. Unfunded Actuarial Accrued Liability (1(f) - 4)		\$65,331,923		\$63,618,935
6. Funded Ratio (4 / 1(f))		31.46%		34.52%
7. Net Employer Normal Cost				
(a) Normal Cost		\$1,766,856		\$1,677,226
(b) Administrative Expenses		\$27,182		\$20,678
(c) Gross Normal Cost (a + b)		\$1,794,038		\$1,697,904
(d) Employee Contribution Rate <sup>a</sup>		7.00%		7.00%
(e) Expected Employee Contributions		\$313,824		\$295,788
(f) Net Employer Normal Cost (c - e)		\$1,480,214		\$1,402,116
( % of Compensation)		33.02%		33.18%
8. Estimated Minimum Employer Contribution <sup>b</sup>		FYE 2018		FYE 2019
(a) Expected Payroll	-	\$4,483,206		\$4,225,541
(b) Estimated Employer Normal Cost		\$1,480,214		\$1,402,116
(c) Employer Normal Cost Rate		33.02%		33.18%
(d) Amortization of Unfunded Actuarial Liability		\$4,196,450		\$4,131,769
(e) State Insurance Premium Tax Allocation	_	\$1,098,776		\$1,053,495
(f) Estimated Employer Contribution <sup>c</sup> (b + d - e)		\$4,577,888		\$4,480,390

<sup>&</sup>lt;sup>a</sup> Blended rate reflecting 7.0% for members hired before January 1, 2010.



<sup>&</sup>lt;sup>b</sup> 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.

<sup>&</sup>lt;sup>c</sup> 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	\$95,321,742
(b) Normal Cost due 7/1/2016	\$1,766,856
(c) Interest on (a) and (b) to 6/30/2017	\$5,291,284
(d) Benefit Payments with interest to 6/30/2017	\$4,587,544
(e) Effect of Assumption Changes	\$0
(f) Expected Liability at 7/1/2017 [(a) + (b) + (c) - (d) + (e)]	\$97,792,338
(g) Actual Liability at 7/1/2017	\$97,152,732
(h) Liability (Gain)/Loss [(g) - (f)]	(\$639,606)
2. (a) Market Value of Assets as of 7/1/2016	\$29,989,819
(b) Interest on (a) to 6/30/2017	\$1,516,818
(c) Contributions with interest to 6/30/2017	\$6,173,806
(d) Benefit Payments with interest to 6/30/2017	\$4,587,544
(e) Expected Assets at 6/30/2017 [(a) + (b) + (c) - (d)]	\$33,092,899
(f) Actual Assets at 7/1/2017	\$33,533,797
(g) Asset (Gain)/Loss [(e) - (f)]	(\$440,898)
3. Total (Gain)/Loss [1(h) + 2(g)]	(\$1,080,504)





**ACTUARIAL PROJECTIONS** 

### **Actuarial Projections, Table 1**

Valuation						Total	Assets						
Plan	Nu	mber	_					Premium Tax			Actuarial		
Year End		Pay	Assets	Benefit		Employer	Member	Allocation	Investment	Assets	Accrued	Unfunded	Funded
30-Jun	Active	Status	(boy)	Payments	Expenses	Contributions	Contributions	Contributions	Income	(eoy)	Liability	Liability	Ratio
2017	64	134	\$29,989,819	\$4,464,763	\$137,856	\$4,590,520	\$335,264	\$1,094,555	\$2,126,258	\$33,533,797	\$97,152,732	\$63,618,935	35%
2018	60	136	33,533,797	4,564,477	20,678	4,577,888	295,788	1,098,776	1,881,999	36,803,093	99,530,977	62,727,884	37%
2019	55	139	36,803,093	4,775,457	21,015	4,480,390	287,353	1,053,495	2,051,974	39,879,834	101,769,914	61,890,080	39%
2020	49	142	39,879,834	5,037,720	21,353	4,381,267	272,867	1,100,230	2,212,256	42,787,380	103,775,012	60,987,632	41%
2021	44	145	42,787,380	5,283,990	21,693	4,273,604	256,928	1,133,886	2,363,039	45,509,155	105,543,098	60,033,943	43%
2022	39	148	45,509,155	5,564,975	22,026	4,158,409	239,095	1,168,221	2,502,426	47,990,305	107,012,472	59,022,167	45%
2023	35	150	47,990,305	5,808,889	22,356	4,030,343	222,415	1,204,355	2,629,316	50,245,489	108,211,921	57,966,432	46%
2024	31	151	50,245,489	6,001,691	22,679	3,909,337	208,899	1,238,293	2,745,382	52,323,029	109,197,828	56,874,799	48%
2025	28	152	52,323,029	6,175,873	22,999	3,803,846	195,539	1,271,934	2,852,600	54,248,076	109,976,633	55,728,557	49%
2026	24	153	54,248,076	6,380,601	23,319	3,698,264	179,770	1,305,645	2,950,537	55,978,371	110,494,892	54,516,521	51%
2027	21	154	55,978,371	6,602,591	23,634	3,581,838	161,779	1,342,118	3,037,014	57,474,895	110,709,191	53,234,296	52%
2028	18	154	57,474,895	6,790,025	23,938	3,454,907	144,895	1,379,512	3,111,342	58,751,588	110,642,545	51,890,957	53%
2029	15	155	58,751,588	6,967,051	24,230	3,330,226	127,983	1,416,763	3,173,918	59,809,197	110,290,783	50,481,586	54%
2030	12	154	59,809,197	7,135,952	24,507	3,206,363	110,099	1,453,824	3,224,656	60,643,680	109,639,514	48,995,834	55%
2031	10	153	60,643,680	7,263,309	24,765	3,076,394	95,004	1,490,993	3,264,163	61,282,159	108,730,615	47,448,456	56%
2032	8	153	61,282,159	7,402,043	24,998	2,960,333	79,121	1,525,894	3,292,876	61,713,341	107,538,385	45,825,044	57%
2033	6	151	61,713,341	7,529,227	25,203	2,841,706	63,226	1,565,062	3,310,547	61,939,452	106,060,601	44,121,149	58%
2034	5	149	61,939,452	7,594,340	25,377	2,728,103	51,644	1,600,616	3,318,780	62,018,878	104,369,570	42,350,692	59%
2035	4	147	62,018,878	7,645,534	25,519	2,632,593	40,509	1,637,182	3,319,854	61,977,963	102,471,061	40,493,098	60%
2036	3	144	61,977,963	7,677,307	25,627	2,541,037	30,271	1,674,021	3,314,977	61,835,334	100,379,171	38,543,837	62%
2037	2	141	61,835,334	7,668,447	25,701	2,455,713	22,757	1,709,282	3,305,808	61,634,746	98,140,372	36,505,626	63%
2038	2	138	61,634,746	7,620,451	25,739	2,383,129	17,941	1,744,212	3,294,925	61,428,762	95,801,264	34,372,502	64%
2039	1	134	61,428,762	7,555,763	25,742	2,324,041	14,186	1,778,149	3,284,566	61,248,199	93,379,906	32,131,707	66%
2040	1	131	61,248,199	7,491,443	25,712	2,269,763	10,046	1,813,670	3,275,760	61,100,283	90,870,461	29,770,178	67%
2041	0	127	61,100,283	7,411,796	25,650	2,214,887	6,578	1,849,827	3,269,185	61,003,315	88,287,728	27,284,413	69%
2042	0	123	61,003,315	7,309,989	25,558	2,162,720	4,374	1,886,199	3,266,128	60,987,190	85,656,552	24,669,362	71%
2043	0	119	60,987,190	7,196,842	25,440	2,114,631	2,823	1,923,337	3,267,975	61,073,674	82,989,178	21,915,504	74%
2044	0	116	61,073,674	7,073,755	25,300	2,067,799	1,884	1,962,291	3,275,836	61,282,429	80,296,904	19,014,475	76%
2045	0	112	61,282,429	6,945,331	25,142	2,022,376	1,171	2,002,550	3,290,647	61,628,700	77,584,946	15,956,246	79%
2046	0	108	61,628,700	6,812,246	24,969	1,975,484	681	2,045,449	3,313,186	62,126,285	74,858,144	12,731,859	83%
2047	0	104	62,126,285	6,674,996	24,785	1,926,923	418	2,090,985	3,344,193	62,789,022	72,121,136	9,332,114	87%
2048	0	101	62,789,022	6,534,884	24,593	1,876,557	280	2,139,280	3,384,390	63,630,052	69,376,878	5,746,826	92%
2049	0	97	63,630,052	6,393,053	24,396	1,824,343	171	2,189,923	3,434,454	64,661,494	66,626,868	1,965,374	97%
2050	0	94	64,661,494	6,249,815	24,194	24,974	59	2,018,114	3,441,591	63,872,222	63,872,222	0	100%
2051	0	91	63,872,222	6,104,472	23,989	23,990	0	0	3,347,346	61,115,097	61,115,097	0	100%
2052	0	87	61,115,097	5,956,684	23,779	23,779	0	0	3,199,714	58,358,127	58,358,127	0	100%
2053	0	84	58,358,127	5,806,566	23,564	23,564	0	0	3,052,154	55,603,715	55,603,715	0	100%
2054	0	81	55,603,715	5,653,562	23,339	23,339	0	0	2,904,812	52,854,965	52,854,965	0	100%
2055	0	78	52,854,965	5,497,016	23,101	23,101	0	0	2,757,878	50,115,827	50,115,827	0	100%
2056	0	75	50,115,827	5,336,219	22,845	22,845	0	0	2,611,589	47,391,197	47,391,197	0	100%
2057	0	72	47,391,197	5,170,506	22,563	22,563	0	0	2,466,230	44,686,921	44,686,921	0	100%
2058	0	69	44,686,921	4,999,304	22,249	22,249	0	0	2,322,140	42,009,757	42,009,757	0	100%



#### **Actuarial Projections, Table 2**

**Employer Contributions** 

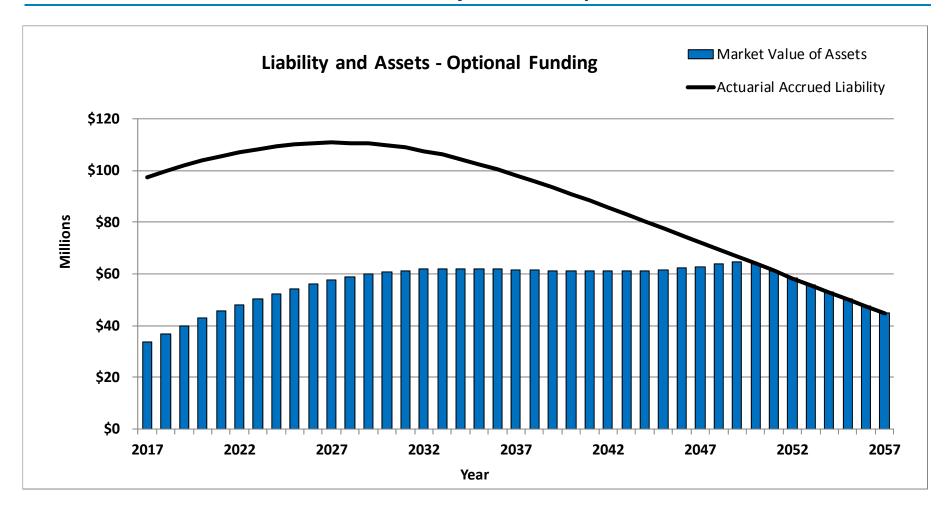
Valuation Plan		Active				Premium Tax			Employer
Year End	Group	Employee	Gross	Net Employer	Amortization	Allocation	Net Employer		Contribution
30-Jun <sup>a</sup>	Payroll	Contributions	Normal Cost	Normal Cost	of UAAL	Contributions	Amortization	Expenses	Closed Plan
2018	\$4,225,541	\$295,788	1,677,226	1,381,438	\$4,131,769	\$1,053,495	\$3,078,274	\$20,678	4,480,390
2019	4,105,048	287,353	1,625,675	1,338,322	4,122,160	1,100,230	3,021,930	21,015	4,381,267
2020	3,898,099	272,867	1,540,427	1,267,560	4,118,577	1,133,886	2,984,691	21,353	4,273,604
2021	3,670,405	256,928	1,448,419	1,191,491	4,113,446	1,168,221	2,945,225	21,693	4,158,409
2022	3,415,636	239,095	1,343,997	1,104,902	4,107,770	1,204,355	2,903,415	22,026	4,030,343
2023	3,177,353	222,415	1,246,480	1,024,065	4,101,209	1,238,293	2,862,916	22,356	3,909,337
2024	2,984,268	208,899	1,167,112	958,213	4,094,888	1,271,934	2,822,954	22,679	3,803,846
2025	2,793,417	195,539	1,086,866	891,327	4,089,582	1,305,645	2,783,937	22,999	3,698,264
2026	2,568,145	179,770	996,235	816,465	4,084,172	1,342,118	2,742,054	23,319	3,581,838
2027	2,311,126	161,779	894,535	732,756	4,078,029	1,379,512	2,698,517	23,634	3,454,907
2028	2,069,928	144,895	796,950	652,055	4,070,996	1,416,763	2,654,233	23,938	3,330,226
2029	1,828,333	127,983	699,974	571,991	4,063,966	1,453,824	2,610,142	24,230	3,206,363
2030	1,572,848	110,099	596,177	486,078	4,056,802	1,490,993	2,565,809	24,507	3,076,394
2031	1,357,194	95,004	507,544	412,540	4,048,921	1,525,894	2,523,027	24,765	2,960,333
2032	1,130,296	79,121	419,072	339,951	4,041,819	1,565,062	2,476,757	24,998	2,841,706
2033	903,226	63,226	332,108	268,882	4,034,635	1,600,616	2,434,019	25,203	2,728,103
2034	737,764	51,644	268,725	217,081	4,027,317	1,637,182	2,390,135	25,377	2,632,593
2035	578,695	40,509	208,479	167,970	4,021,569	1,674,021	2,347,548	25,519	2,541,037
2036	432,439	30,271	153,644	123,373	4,015,995	1,709,282	2,306,713	25,627	2,455,713
2037	325,094	22,757	113,753	90,996	4,010,644	1,744,212	2,266,432	25,701	2,383,129
2038	256,293	17,941	87,991	70,050	4,006,401	1,778,149	2,228,252	25,739	2,324,041
2039	202,664	14,186	68,484	54,298	4,003,392	1,813,670	2,189,722	25,742	2,269,763
2040	143,516	10,046	48,055	38,009	4,000,993	1,849,827	2,151,166	25,712	2,214,887
2041	93,977	6,578	31,437	24,859	3,998,411	1,886,199	2,112,212	25,650	2,162,720
2042	62,488	4,374	20,751	16,377	3,996,033	1,923,337	2,072,696	25,558	2,114,631
2043	40,329	2,823	13,259	10,436	3,994,214	1,962,291	2,031,923	25,440	2,067,799
2044	26,914	1,884	8,770	6,886	3,992,740	2,002,550	1,990,190	25,300	2,022,376
2045	16,730	1,171	5,337	4,166	3,991,625	2,045,449	1,946,176	25,142	1,975,484
2046	9,735	681	3,020	2,339	3,990,600	2,090,985	1,899,615	24,969	1,926,923
2047	5,967	418	1,844	1,426	3,989,626	2,139,280	1,850,346	24,785	1,876,557
2048	4,003	280	1,235	955	3,988,717	2,189,923	1,798,794	24,593	1,824,343
2049	2,443	171	749	578	3,987,598	2,018,114	1,744,504	24,396	24,974
2050	840	59	254	195	0	0	0	24,194	23,990
2051	0	0	0	0	0	0	0	23,989	23,779
2052	0	0	0	0	0	0	0	23,779	23,564
2053	0	0	0	0	0	0	0	23,564	23,339
2054	0	0	0	0	0	0	0	23,339	23,101
2055	0	0	0	0	0	0	0	23,101	22,845
2056	0	0	0	0	0	0	0	22,845	22,563
2057	0	0	0	0	0	0	0	22,563	22,249

<sup>&</sup>lt;sup>a</sup> Assumes employer makes contributions for the applicable valuation plan year in the following fiscal year.



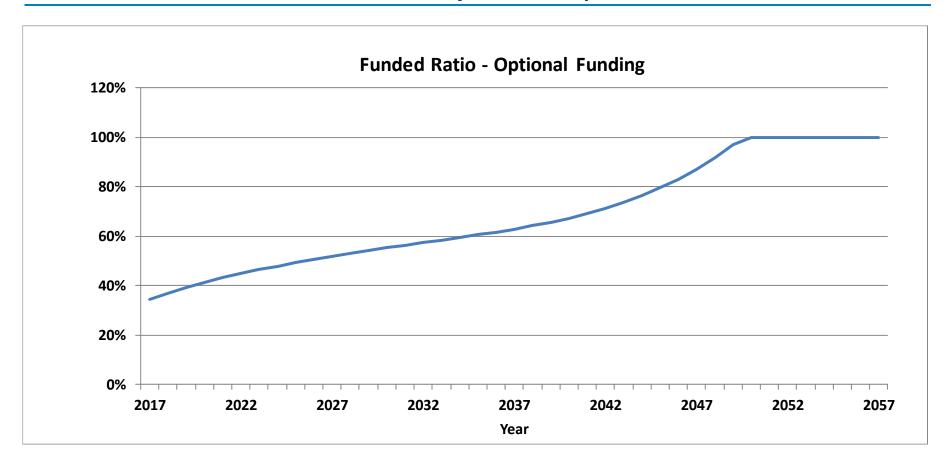
<sup>&</sup>lt;sup>b</sup>Amount required to remain at 100% funded.

#### **Actuarial Projections, Graph 1**



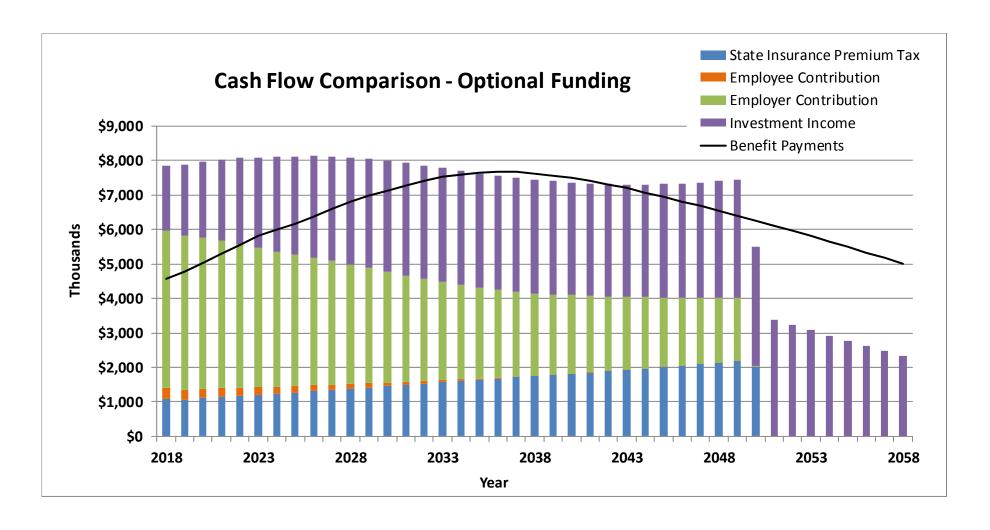


#### **Actuarial Projections, Graph 2**





#### **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**

Valuation Date	July 1, 2016	July 1, 2017
Valuation Interest Rate	5.50%	5.50%
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 <sup>a</sup>	24 Years, Level % of Pay	23 Years, Level % of Pay
Schedule of Funding Progress		
Actuarial Valuation Date	July 1, 2016	July 1, 2017
1. Market Value of Assets	\$29,989,819	\$33,533,797
2. Actuarial Accrued Liability	\$95,321,742	\$97,152,732
3. Unfunded Actuarial Accrued Liability (2 - 1)	\$65,331,923	\$63,618,935
4. Funded Ratio (1/2)	31%	35%
5. Expected Payroll	\$4,483,206	\$4,225,541
6. UAAL as Percentage of Covered Payroll (3/5)	1,457%	1,506%
Schedule of Employer Contributions <sup>c</sup>	FYE 2017	FYE 2018
1. Actuarially Determined Contribution		
(a) Employer Normal Cost	\$1,480,214	\$1,402,116
(b) Amortization of Unfunded Actuarial Accrued Liability	\$3,277,533	\$3,304,430
(c) Actuarially Determined Contribution (ADC) (a + b)	\$4,757,747	\$4,706,546
	,	. , ,
2. Employer Contribution <sup>b</sup>	\$4,590,520	\$4,577,888
3. Premium Tax Allocation	\$1,094,555	\$1,098,776
4. Percentage of ADC Contributed [ (2 + 3)/1(c)]	119%	121%

<sup>&</sup>lt;sup>a</sup> Suggested amortization policy to comply with GASB Statement Nos. 67 and 68 Standards. <sup>b</sup> Estimated employer contribution for fiscal year ended June 30, 2018.



<sup>&</sup>lt;sup>c</sup> 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	\$28,541,102	\$29,989,819
Adjustment to Market Value of Assets at Beginning of Year	(\$2)	\$0
Market Value of Assets Beginning of Year	\$28,541,100	\$29,989,819
1. Revenue During Fiscal Year		
(a) Employee Contribution (b) Governmental Contribution	\$313,939	\$323,569
(i) From Local Government	\$1,887,791	\$2,295,260
(ii) From State Government	\$523,521	\$547,277
(iii) Reallocation from State Government	\$0	\$0
(iv) Total	\$2,411,312	\$2,842,537
(c) Earnings on Investments		
(i) Net Appreciation/(Depreciation)	(\$54,267)	\$1,481,287
(ii) Bond Interest	\$320,504	\$271,028
(iii) Dividends	\$585,877	\$372,900
(iv) Net Realized Gain (Loss) on Sale/Exchange	\$0	\$0
(v) Other	\$456	\$735
(vi) Less Investment Expense	\$0	\$0
(vii) Total	\$852,570	\$2,125,950
(d) Other Revenue	\$90	\$308
(e) Receivable Investment Income/(Expense)	\$0	\$0
(f) Receivable Contribution <sup>a</sup>		
(i) From Employee Contributions	\$0	\$11,695
(ii) From Local Government	\$1,887,790	\$2,295,260
(iii) From State Government	\$523,521	\$547,278
(iv) Total	\$2,411,311	\$2,854,233
(g) Total Revenue (sum of (a) through (f))	\$5,989,222	\$8,146,597
2. Expenditures During Fiscal Year		
(a) Benefits Paid	\$4,311,767	\$4,435,120
(b) Withdrawals	\$47,520	\$29,643
(c) Administrative Expenses	\$181,216	\$134,651
(d) Payable Benefits and Withdrawals	\$0	\$0
(e) Payable Administrative Expenses	\$0	\$3,205
(f) Total Expenditures (sum of (a) through (e))	\$4,540,503	\$4,602,619
B. Market Value of Assets End of Year		
[A + 1(g) - 2(f)]	\$29,989,819	\$33,533,797
C. Approximate Return on Assets	2.53%	7.10%

<sup>&</sup>lt;sup>a</sup> 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	\$2,131,124	7%	\$1,492,463	4%
2. Government Securities				
(a) US Treasury Bills, Notes and Bonds	\$3,607,575		\$8,244,097	
(b) US State and Local Governmental Debt Securities	\$2,863,510		\$0	
(c) Foreign Governmental Debt Securities	\$0		\$299,636	
(d) Other	\$2,840,468		\$0	
(e) Total Government Securities (sum of (a) through (d) )	\$9,311,553	31%	\$8,543,733	26%
3. Corporate Fixed Income				
(a) US Bonds	\$2,770,443		\$4,643,507	
(b) US Mortgage or other Asset Backed Securities	\$0		\$3,909,381	
(c) US Mutual Fund Shares (Bonds)	\$1,013,625		\$929,875	
(d) US Exchange Traded Funds (Bonds)	\$0		\$0	
(e) International Bonds	\$0		\$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) )	\$3,784,068	13%	\$9,482,763	28%
4. Corporate Equity				
(a) US Equity	\$3,085,950		\$0	
(b) US Mutual Fund Shares (Equity)	\$9,143,895		\$8,163,168	
(c) US Exchange Traded Funds (Equity)	\$0		\$116,625	
(d) International Equity	\$121,917		\$0	
(e) International Mutual Fund Shares (Equity)	\$0		\$2,728,015	
(f) International Exchange Traded Funds (Equity)	\$0		\$156,002	
(g) Total Corporate Equity (sum of (a) through (f) )	\$12,351,762	41%	\$11,163,810	33%
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		\$11,695	
(b) From Local Government	\$1,887,791		\$2,295,260	
(c) From State Government	\$523,521		\$547,278	
(d) Total Receivable Contributions (sum of (a) through (c) )	\$2,411,312	8%	\$2,854,233	9%
8. Accruals				
(a) Receivable (other than State and Local Contributions)	\$0		\$0	
(b) Less Payable	\$0		(\$3,205)	
(c) Total	\$0	0%	(\$3,205)	0%
Market Value of Assets End of Year	\$29,989,819		\$33,533,797	
[ 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:	71	95	9	2	29	206
New Actives:						0
Returned to Actives Status:						0
Data Corrections/Other Changes:	(1)	(2)	3			0
Vested Terminations:	(2)			2		0
Non-Vested Terminations:	(1)					(1)
Disabled:						0
Retirements:	(3)	3				0
Deaths with Beneficiary:		(2)			2	0
Deaths w/o Beneficiary:		(2)			(4)	(6)
Expired Annuity or Stop Payment:					(1)	(1)
Net Changes:	(7)	(3)	3	2	(3)	(8)
Total Participants June 30, 2017:	64	92	12	4	26	198



# Actuarial Valuation Data as of July 1, 2017 Schedule G: Distribution of Active Employees by Age and Length of Service

Attained			Yea	ars of Servic	e to Valua	tion Date					1	<b>Valuation</b>
Age	Less than 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 35	Totals		Payroll <sup>a</sup>
Under 20											\$	0
20-24											\$	0
25-29			2							2	\$	68,685
30-34			3	2						5	\$	263,975
35-39			3	7	2					12	\$	743,147
40-44			2	3	8	2				15	\$	1,014,448
45-49				2	5	16	2			25	\$	1,765,729
50-54						3	2			5	\$	393,664
55-59											\$	0
60-64											\$	0
65-69											\$	0
Over 70											\$	0
Totals	0	0	10	14	15	21	4	0	0	64	\$	4,249,648
		Averages										
		Age:		42.8	years							
		Service:		16.8	years							
		Annual Pa	ıy:	\$66,401	a							

<sup>&</sup>lt;sup>a</sup> 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	71	64
Total Annual Pay	\$4,537,443	\$4,249,648
Average Age	42.3	42.8
Average Service	16.2	16.8

Inactive Participants	J	uly 1, 2016	July 1, 2017		
Туре	No.	Annual Benefit	No.	Annual Benefit	
Retirees	95	\$3,703,107	92	\$3,688,234	
Survivors	29	\$458,921 26		\$446,802	
Disabled Members	9	\$215,337	12	\$288,243	
Deferred Vested Members	2	\$64,248	4	\$179,632	

<sup>&</sup>lt;sup>a</sup>Data provided includes 5 non-vested members with accumulated contributions balances of \$14,719.





**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 <sup>1</sup>	Liquidity Ratio <sup>2</sup>	Equity Exposure <sup>3</sup>	Projected Funded Ratio after 15 Years <sup>1</sup>	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%

<sup>&</sup>lt;sup>1</sup>Funded 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).

<sup>&</sup>lt;sup>3</sup>Based on investment policy.

As of June 30, 2017				
Assets	\$33,533,797			
Liabilities using a 6.00% Discount Rate	\$91,208,971			
Funded Ratio	37%			
Expected Benefit Payments	\$4,564,477			
Liquidity Ratio	7.35			
Equity Exposure	33%			
Projected Funded Ratio after 15 years	59%			

	Discount Rate	5.50%
--	---------------	-------



<sup>&</sup>lt;sup>2</sup>Liquidity ratio equals assets as of the actuarial valuation date divided by expected benefit payments for the year.

#### 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 Policemen's Pension and Relief Fund reported 94 eligible active members and 133 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 \$1,053,495 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.



General Inflation	2.75%
Expected Salary Increase	General Inflation: 2.75% plus
	Wage Inflation Increment: 1.00% plus
Service-based Increase:	Years of     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
Amortization Policies:  Alternative Plans and former Alternative Plans that selected the Conservation Policy	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).
Standard Plans and former Standard Plans that selected the Optional Policy	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)
Former Alternative Plans that selected the Optional Policy	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)



Asset Method	Market Value
Turnover	Sample Rates –         Age       Rates         25       9%         35       4%         45       2%         50       0%
Retirement	Age Rates <sup>a</sup> 50 45% 51-55 30% 56-59 35% 60 100% a Terminated vested participants are assumed to retire at age 50.
Mortality	Active: RP-2014 Blue Collar Healthy Employee <sup>b</sup> Post-Retirement: RP-2014 Blue Collar Healthy Annuitant  Disabled: RP-2014 Blue Collar Healthy Annuitant set forward four years  Tables above incorporate generational mortality improvement using MP-2014 2-dimensional mortality improvement scales <sup>b</sup> Assumes 10% of deaths are duty-related and 90% are non-duty related.
Disability	Sample Rates –  Age Rates <sup>c</sup> 30 0.22%  40 0.50%  50 0.79% <sup>c</sup> Assumes 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.
Percent Married	90%
Spouse Age	Females 3 years younger than males



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	One member marked Active as of July 1, 2016 was corrected to be disabled as of July 1, 2016. Two members marked retired as of July 1, 2016 were corrected to disabled as of July 1, 2017. Five members reported as terminated non-vested as of July 1, 2017 were assumed to have unpaid account balances.
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:  (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





**SUMMARY OF PRINCIPAL PLAN PROVISIONS** 

## Summary of Principal Plan Provisions Actuarial Valuation as of July 1, 2017

**Employee Eligibility** — All compensated employees of the Police Department hired before January 1, 2010 are eligible to participate in the City of Huntington Policemen'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.

