80 Lamberton Road
Windsor, CT 06095
USA

Main +1 860 687 2110
Fax +1 860 687 2111

milliman.com

November 17, 2016

PERSONAL & CONFIDENTIAL

Ms. Ann Harter
Director of Finance
Town of Newington
131 Cedar Street
Newington, CT 06111

Re: Town of Newington Pension Plans
Actuarial Reports for Fiscal Year 2017-2018

Dear Ann:

We are pleased to provide these actuarial reports for the Town of Newington Pension Plans. The reports show the financial status of the plans as of July 1, 2016 and present the cost figures for 2017-2018. A summary of the principal results of each valuation can be found at the end of Section I.

The Actuarially Determined Contributions for FY 2017-2018 are shown below:

	Administrative Plan	Municipal Plan	Police Plan	Total
Town	$421,054	$787,717	$3,613,092	$4,821,863
Board of Education	70,387	953,955	0	1,024,342
Total	491,441	1,741,672	3,613,092	5,846,205

Please let me know if you have any questions.

Sincerely,

Becky

Rebecca A. Sielman, FSA
Consulting Actuary

RAS:dlc 10 NEW111616PensionReportCoverLetter.docx

Milliman

TOWN OF NEWINGTON
ADMINISTRATIVE EMPLOYEES' PENSION PLAN

Actuarial Valuation as of July 1, 2016
For Fiscal Year 2017-18

Prepared by

Rebecca A. Sielman, FSA
Consulting Actuary

80 Lamberton Road
Windsor, CT 06095 USA
Tel +1 860.687.2110
Fax +1 860.687.2111
milliman.com

November 16, 2016

Table of Contents

Certification

We have performed an actuarial valuation of the Plan as of July 1, 2016 for fiscal year 2017-18. This report presents the results of our valuation.

The ultimate cost of a pension plan is the total amount needed to provide benefits for plan members and beneficiaries and to pay the expenses of administering the plan. Pension costs are met by contributions and by investment return on plan assets. The principal purpose of this report is to set forth an actuarial recommendation of the contribution, or range of contributions, which will properly fund the plan, in accordance with applicable government regulations. In addition, this report provides:

- A valuation of plan assets and liabilities to review the year-to-year progress of funding.
- Information needed to meet disclosure requirements.
- Review of plan experience for the previous year to ascertain whether the assumptions and methods employed for valuation purposes are reflective of actual events and remain appropriate for prospective application.
- Assessment of the relative funded position of the plan, i.e., through a comparison of plan assets and projected plan liabilities.
- Comments on any other matters which may be of assistance in the funding and operation of the plan.

This report may not be used for purposes other than those listed above without Milliman's prior written consent. If this report is distributed to other parties, it must be copied in its entirety, including this certification section.

Milliman's work is prepared solely for the internal business use of the Town. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a Release, subject to the following exception(s): (a) the Town may provide a copy of Milliman's work, in its entirety, to the Town's professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit the Town; and (b) the Town may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law. No third party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.

In preparing this report, we relied on employee census data and financial information as of the valuation date, furnished by the Town. We performed a limited review of the data used directly in our analysis for reasonableness and consistency and have found them to be reasonably consistent and comparable with data used for other purposes. If the underlying data or information is inaccurate or incomplete, the results of our analysis may likewise be inaccurate or incomplete and our calculations may need to be revised. If there are material defects in the data, it is possible that they would be uncovered by a detailed, systematic review and comparison of the data to search for data values that are questionable or for relationships that are materially inconsistent. Such a review was beyond the scope of our assignment.

Certification

The calculations reported herein have been made on a basis consistent with our understanding of ERISA and the related sections of the tax code. Additional determinations may be needed for purposes other than meeting funding requirements, such as judging benefit security at plan termination or meeting employer accounting requirements. On the basis of the foregoing, we hereby certify that, to the best of our knowledge, this report is complete and accurate and all costs and liabilities were determined in conformance with generally accepted actuarial principles and practices.

We further certify that, in our opinion, each actuarial assumption, method and technique used is reasonable taking into account the experience of the Plan and reasonable expectations or would, in the aggregate, result in a total contribution equivalent to that which would be determined if each such assumption, method, or technique were reasonable. Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as, but not limited to, 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. Due to the limited scope of the actuarial assignment, we did not perform an analysis of the potential range of such future measurement.

The consultants who worked on this assignment are pension actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

The signing actuary is independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

We are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Rebecca A. Sielman, FSA
Consulting Actuary

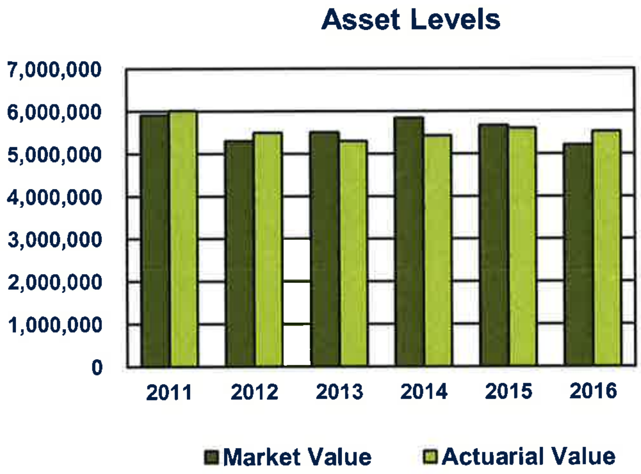
Section I - Executive Summary
A. Highlights

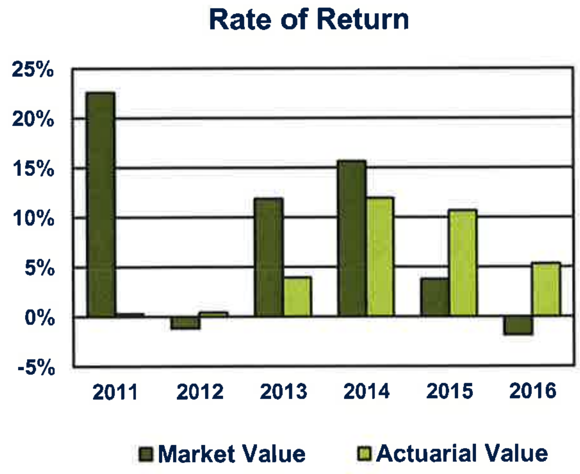
Assets

There are two different measures of the plan's assets that are used throughout this report. The **Market Value** is a snapshot of the plan's investments as of the valuation date. The **Actuarial Value** is a smoothed asset value designed to temper the volatile fluctuations in the market by recognizing investment gains or losses over five years.

	Market	Actuarial
Value as of July 1, 2015	$5,673,072	$5,601,205
Contributions	490,551	490,551
Investment Income	(100,869)	288,195
Benefit Payments and Administrative Expenses	(851,161)	(851,161)
Value as of July 1, 2016	5,211,593	5,528,790

For fiscal year 2015-16, the plan's assets earned -1.84% on a Market Value basis and 5.32% on an Actuarial Value basis. The actuarial assumption for this period was 7.375%; the result is an asset loss of $505,200 on a Market Value basis and a loss of $111,300 on an Actuarial Value basis. Historical asset values are shown in the graph below to the left; historical returns are shown in the graph below to the right.





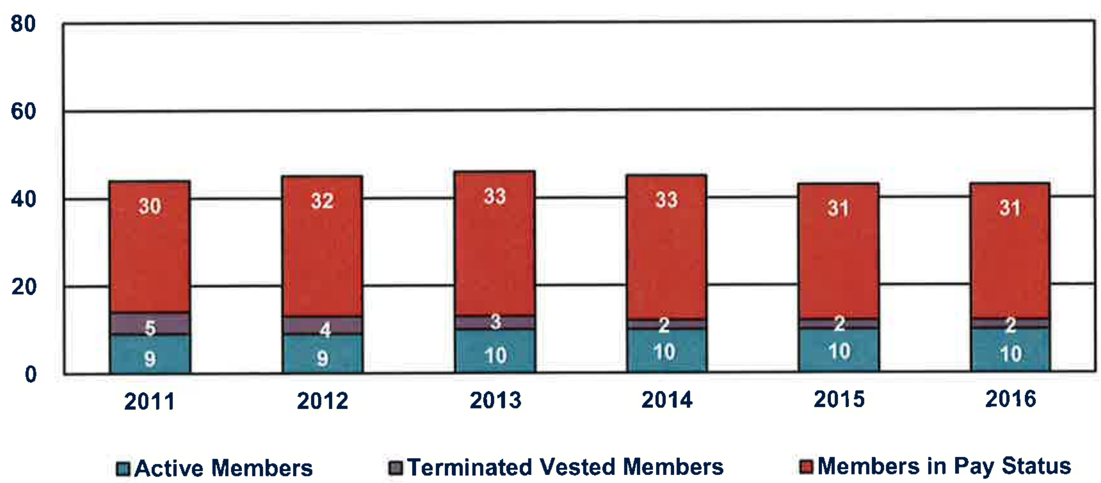
Please note that the Actuarial Value currently exceeds the Market Value by $317,200. This figure represents investment losses that will be gradually recognized over the next five years. This process will exert upward pressure on the Town's contribution, unless there are offsetting market gains.

Section I - Executive Summary
A. Highlights

Membership

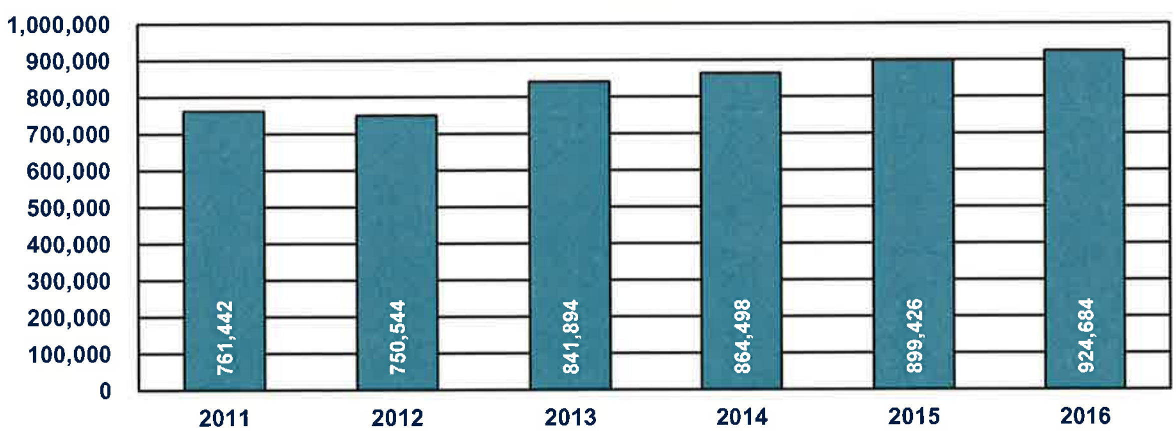
There are three basic categories of plan members included in the actuarial valuation: (1) active employees who have met the eligibility requirements for membership, (2) former employees who have a vested right to benefits but have not yet started collecting, and (3) members who are receiving monthly pension benefits.

Number of Members



From July 1, 2015 to July 1, 2016, the overall membership stayed the same at 43. During this period, one disabled member reached normal retirement.

Payroll



Section I - Executive Summary
A. Highlights

Plan Changes

None.

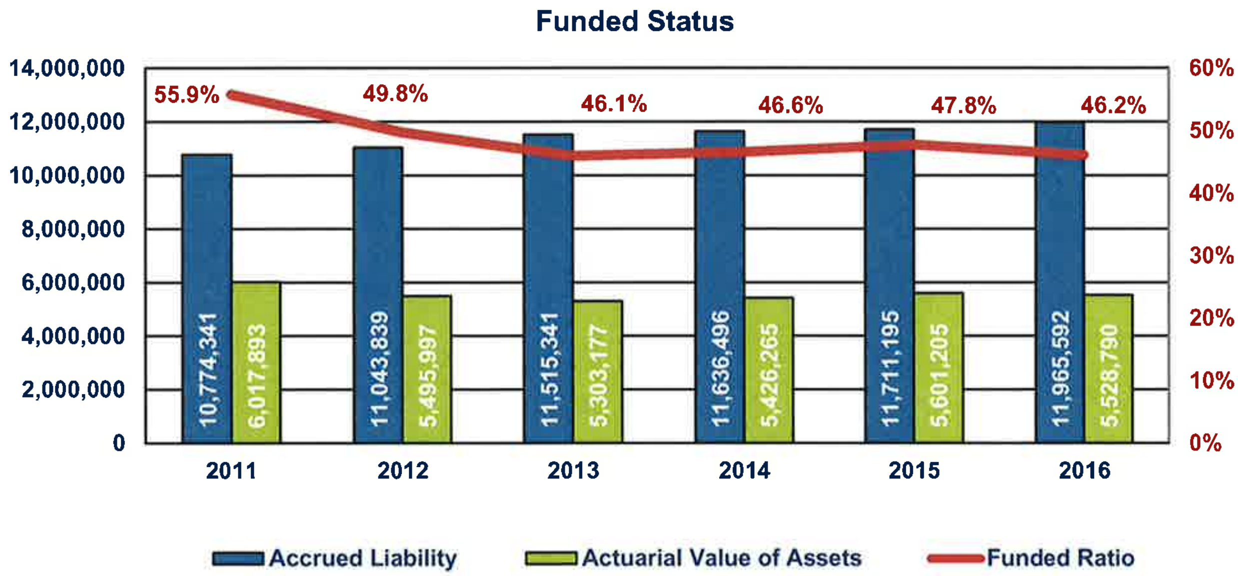
Changes in Actuarial Methods or Assumptions

In order to better anticipate future market returns, we have lowered the interest rate assumption from 7.375% to 7.25%. This change increased the Unfunded Accrued Liability by $132,000 and increased the Actuarially Determined Contribution by $7,200. We will continue to reduce the interest rate assumption by increments over the next several years.

Section I - Executive Summary
A. Highlights

Funded Status

The chart below shows the plan's Accrued Liability and Actuarial Value of Assets for the past few years.

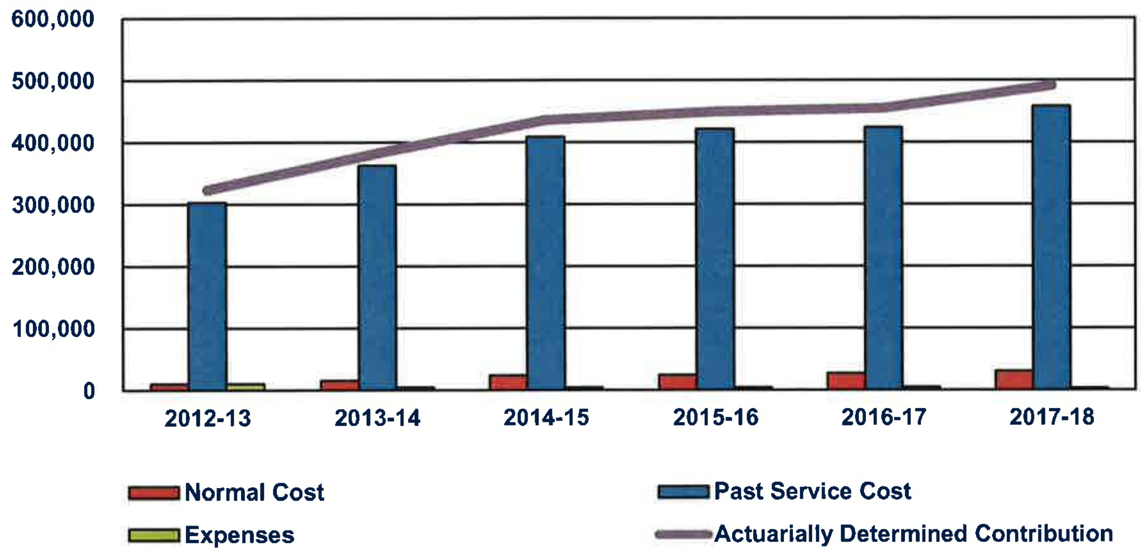


Section I - Executive Summary
A. Highlights

Actuarially Determined Contribution

The Actuarially Determined Contribution consists of three pieces: a **Normal Cost** payment to fund the benefits earned each year, a **Past Service Cost** to gradually reduce any unfunded or surplus liability, and **Expenses** expected to be paid from plan assets. If the plan has a sufficiently large surplus, the Past Service Cost may be large enough to cover the Normal Cost, in which case no contribution is required.

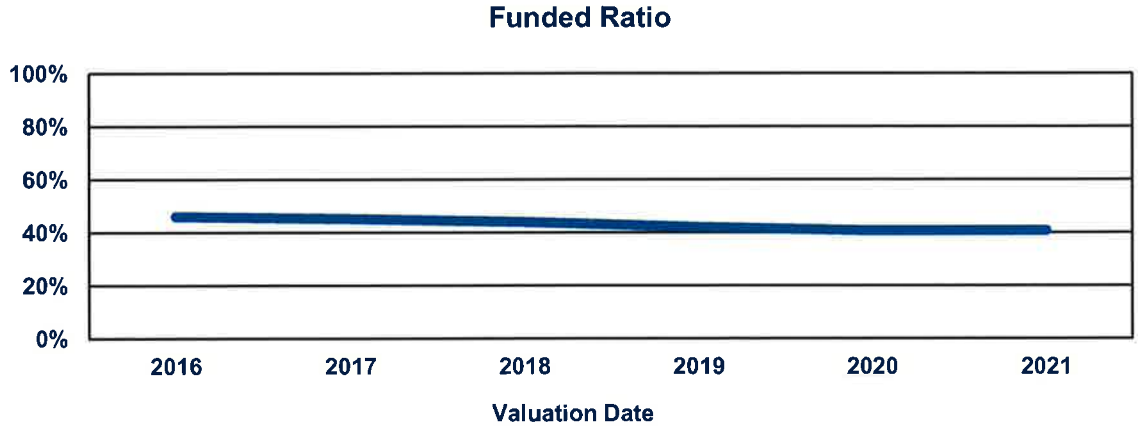
Contribution levels for the current year and the past few fiscal years are shown below.

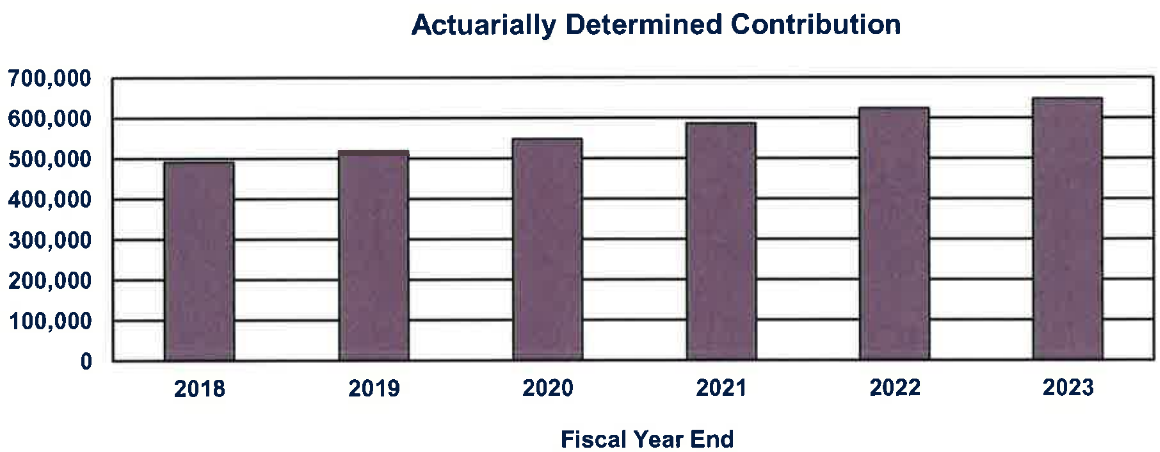


Section I - Executive Summary
A. Highlights

Long Range Forecast

The Town intends to reduce the interest rate assumption gradually over the next several years. This will depress the funded ratio and increase the Actuarially Determined Contribution while that process is underway.





To the extent that there are future investment or liability gains or losses, changes in the actuarial assumptions or methods, or plan changes, the actual valuation results will differ from these forecasts. Please see Section III C for more details of the long range forecast.

Section I - Executive Summary
B. Summary of Principal Results

Membership	July 1, 2015	July 1, 2016
Active Members	10	10
Terminated Vested Members	2	2
Members in Pay Status	31	31
Payroll	$899,426	$924,684

Assets and Liabilities	July 1, 2015	July 1, 2016
Market Value of Assets	$5,673,072	$5,211,593
Actuarial Value of Assets	5,601,205	5,528,790
Accrued Liability for Active Members	$3,057,666	$3,391,256
Accrued Liability for Terminated Vested Members	410,905	438,753
Accrued Liability for Members in Pay Status	8,242,624	8,135,583
Total Accrued Liability	11,711,195	11,965,592
Unfunded Accrued Liability	6,109,990	6,436,802
Funded Ratio	47.8%	46.2%

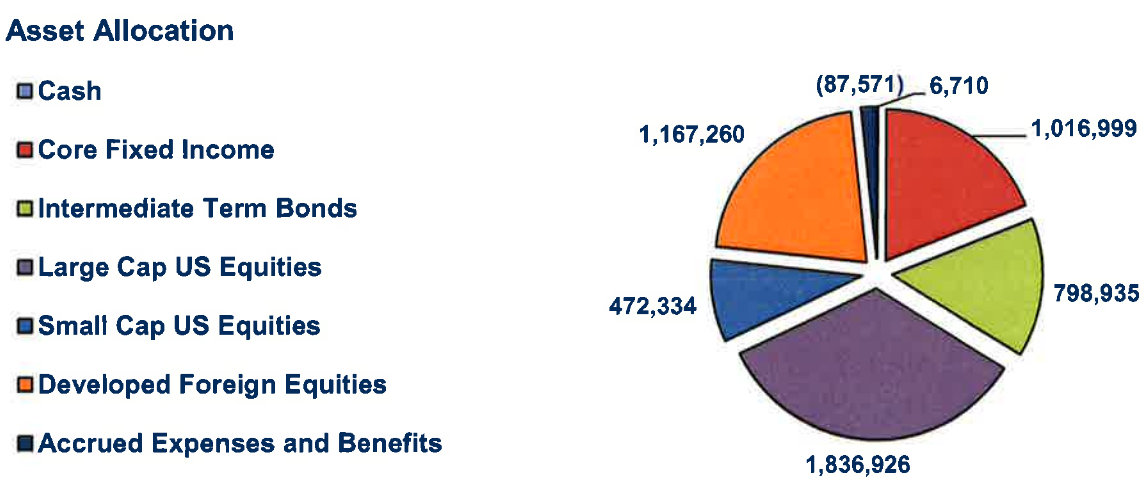
Actuarially Determined Contribution for Fiscal Year	2016-17	2017-18
Normal Cost	$27,167	$30,401
Past Service Cost	423,591	457,940
Expenses	4,700	3,100
Actuarially Determined Contribution	455,458	491,441

Breakdown of Actuarially Determined Contribution	2016-17	2017-18
Board of Education	$63,660	$70,387
Town	391,798	421,054
Total	455,458	491,441

Section II - Plan Assets
A. Summary of Fund Transactions

Market Value as of July 1, 2015	$5,673,072
Employer Contributions	449,398
Employee Contributions	41,153
Benefit Payments	(848,153)
Interest and Dividends	87,402
Capital Gains/(Losses)	(158,888)
Investment Expenses	(29,383)
Administrative Expenses	(3,008)
Market Value as of July 1, 2016	5,211,593
Approximate Rate of Return	-1.84%

Note: The rate shown here is not the dollar or time weighted investment yield rate which measures investment performance. It is an approximate net return assuming all activity occurred on average midway through the fiscal year.



Section II - Plan Assets
B. Development of Actuarial Value of Assets

In order to minimize the impact of market fluctuations on the contribution level, we use an Actuarial Value of Assets that recognizes gains and losses over a five year period. The Actuarial Value of Assets as of July 1, 2016 is determined below.

1. Expected Market Value of Assets:	
a. Market Value of Assets as of July 1, 2015	$5,673,072
b. Employer and Employee Contributions	490,551
c. Benefit Payments and Administrative Expenses	(851,161)
d. Expected Investment Return Based on 7.375% Interest	404,298
e. Expected Market Value of Assets as of July 1, 2016	5,716,760
2. Actual Market Value of Assets as of July 1, 2016	5,211,593
3. Market Value (Gain)/Loss: (1e) - (2)	505,167

4. Delayed Recognition of Market (Gains)/Losses:

Plan Year End	(Gain)/Loss	Percent Not Recognized	Amount Not Recognized	
06/30/2016	$505,167	80%	$404,134	
06/30/2015	210,674	60%	126,404	
06/30/2014	(428,358)	40%	(171,343)	
06/30/2013	(209,989)	20%	(41,998)	
				317,197

5. Actuarial Value as of July 1, 2016: (2) + (4)	5,528,790
6. Approximate Rate of Return on Actuarial Value	5.32%
7. Actuarial Value (Gain)/Loss	111,323

Section III - Development of Contribution
A. Past Service Cost

For determining the Past Service Cost, the Unfunded Accrued Liability is amortized as a level percent over a period of 30 years starting on July 1, 2005.

		July 1, 2015	July 1, 2016
1.	Accrued Liability		
	Active Members	$3,057,666	$3,391,256
	Terminated Vested Members	410,905	438,753
	Retired Members	7,136,169	7,206,109
	Disabled Members	161,279	0
	Beneficiaries of Deceased Members	945,176	929,474
	Total	11,711,195	11,965,592
2.	Actuarial Value of Assets (see Section II B)	5,601,205	5,528,790
3.	Unfunded Accrued Liability: (1) - (2)	6,109,990	6,436,802
4.	Funded Ratio: (2) / (1)	47.8%	46.2%
5.	Amortization Period	20	19
6.	Amortization Growth Rate	3.50%	3.50%
7.	Past Service Cost: (3) amortized over (5)	423,591	457,940

Section III - Development of Contribution
B. Actuarially Determined Contribution

	Fiscal Year 2016-17	Fiscal Year 2017-18
1. Total Normal Cost	$66,325	$70,436
2. Expected Employee Contributions	39,158	40,035
3. Expected Expenses	4,700	3,100
4. Net Normal Cost: (1) - (2) + (3)	31,867	33,501
5. Past Service Cost (see Section III A)	423,591	457,940
6. Actuarially Determined Contribution: (4) + (5)	455,458	491,441

Section III - Development of Contribution
C. Long Range Forecast

This forecast is based on the results of the July 1, 2016 actuarial valuation and assumes that the Town will pay the Actuarially Determined Contribution each year, the assets will return the assumed interest rate on a market value basis each year, and there are no future changes in the actuarial methods or assumptions or in the plan provisions. Actual results at each point in time will yield different values, reflecting the actual experience of the plan membership and assets.

		Values as of the Valuation Date					Cash Flows Projected to the Following Fiscal Year			
Valuation Date	Interest Rate	Accrued Liability	Actuarial Value of Assets	Unfunded Accrued Liability	Funded Ratio	Fiscal Year Ending	Town Contributions	Employee Contributions	Benefit Payments	Net Cash Flows
7/1/2016	7.250%	$11,965,592	$5,528,790	$6,436,802	46.2%	2018	$491,441	$37,000	($932,000)	($403,559)
7/1/2017	7.125%	12,125,000	5,497,000	6,628,000	45.3%	2019	518,000	34,000	(957,000)	(405,000)
7/1/2018	7.000%	12,215,000	5,389,000	6,826,000	44.1%	2020	548,000	31,000	(979,000)	(400,000)
7/1/2019	6.875%	12,266,000	5,183,000	7,083,000	42.3%	2021	586,000	28,000	(996,000)	(382,000)
7/1/2020	6.750%	12,275,000	5,013,000	7,262,000	40.8%	2022	624,000	26,000	(1,011,000)	(361,000)
7/1/2021	6.750%	12,124,000	4,954,000	7,170,000	40.9%	2023	647,000	23,000	(1,027,000)	(357,000)
7/1/2022	6.750%	11,939,000	4,911,000	7,028,000	41.1%	2024	670,000	20,000	(1,040,000)	(350,000)
7/1/2023	6.750%	11,721,000	4,869,000	6,852,000	41.5%	2025	694,000	18,000	(1,053,000)	(341,000)
7/1/2024	6.750%	11,468,000	4,833,000	6,635,000	42.1%	2026	720,000	14,000	(1,068,000)	(334,000)
7/1/2025	6.750%	11,180,000	4,801,000	6,379,000	42.9%	2027	746,000	12,000	(1,073,000)	(315,000)
7/1/2026	6.750%	10,849,000	4,776,000	6,073,000	44.0%	2028	774,000	10,000	(1,071,000)	(287,000)
7/1/2027	6.750%	10,488,000	4,768,000	5,720,000	45.5%	2029	806,000	8,000	(1,063,000)	(249,000)
7/1/2028	6.750%	10,100,000	4,789,000	5,311,000	47.4%	2030	841,000	6,000	(1,051,000)	(204,000)
7/1/2029	6.750%	9,689,000	4,850,000	4,839,000	50.1%	2031	879,000	5,000	(1,032,000)	(148,000)
7/1/2030	6.750%	9,261,000	4,962,000	4,299,000	53.6%	2032	921,000	4,000	(1,008,000)	(83,000)
7/1/2031	6.750%	8,821,000	5,138,000	3,683,000	58.2%	2033	970,000	3,000	(990,000)	(17,000)
7/1/2032	6.750%	8,375,000	5,395,000	2,980,000	64.4%	2034	1,030,000	2,000	(963,000)	69,000
7/1/2033	6.750%	7,915,000	5,736,000	2,179,000	72.5%	2035	1,112,000	1,000	(930,000)	183,000
7/1/2034	6.750%	7,453,000	6,190,000	1,263,000	83.1%	2036	1,269,000	1,000	(912,000)	358,000
7/1/2035	6.750%	6,992,000	6,792,000	200,000	97.1%	2037	206,000	1,000	(874,000)	(667,000)

For purposes of this forecast the amortization period declines to 1 year to illustrate the progress of the plan towards becoming fully funded; in actual practice the amortization period will not be less than 10 years in order to shield the Town from contribution volatility.

Section IV - Accounting Information
A. Notes to Required Supplementary Information

The information presented in Section IV has been determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Valuation Date	July 1, 2016
Actuarial Cost Method	Entry Age Normal
Amortization Method	Level percent
Amortization Period	Closed 30 years from July 1, 2005
Asset Valuation Method	5 Year Smoothed Market Value
Actuarial Assumptions	
Investment Rate of Return	7.25%
Projected Salary Increases	3.50%
Amortization Growth Rate	3.50%
Inflation	2.75%
Cost-of-Living Adjustments	None

Section IV - Accounting Information
B. Historical Schedule of Funding Progress

Actuarial Valuation Date	For Fiscal Year	(1) Actuarial Value of Assets	(2) Actuarial Accrued Liability (AAL)	(3) Unfunded AAL (UAAL) (2) - (1)	(4) Funded Ratio (1) / (2)	(5) Covered Payroll	(6) UAAL as a Percentage of Covered Payroll (3) / (5)
07/01/2007	2008-09	$7,064,747	$8,654,542	$1,589,795	81.6%	$1,112,489	142.9%
07/01/2008	2009-10	7,368,038	9,392,878	2,024,840	78.4%	1,131,299	179.0%
07/01/2009	2010-11	7,026,255	9,941,593	2,915,338	70.7%	885,459	329.2%
07/01/2010	2011-12	6,563,152	10,057,455	3,494,303	65.3%	814,867	428.8%
07/01/2011	2012-13	6,017,893	10,774,341	4,756,448	55.9%	761,442	624.7%
07/01/2012	2013-14	5,495,997	11,043,839	5,547,842	49.8%	750,544	739.2%
07/01/2013	2014-15	5,303,177	11,515,341	6,212,164	46.1%	841,894	737.9%
07/01/2014	2015-16	5,426,265	11,636,496	6,210,231	46.6%	864,498	718.4%
07/01/2015	2016-17	5,601,205	11,711,195	6,109,990	47.8%	899,426	679.3%
07/01/2016	2017-18	5,528,790	11,965,592	6,436,802	46.2%	924,684	696.1%

Section IV - Accounting Information
C. Schedule of Employer Contributions

Fiscal Year Ending June 30	(1) Actuarially Determined Contribution	(2) Contribution in Relation to the Actuarially Determined Contribution	(3) Contribution Deficiency/ (Excess) (1) - (2)	(4) Covered Payroll	(5) Contribution as a Percentage of Covered Payroll (2) / (4)
2009	$172,719	$172,719	$0	$1,112,489	15.5%
2010	196,104	196,104	0	1,131,299	17.3%
2011	237,105	237,105	0	885,459	26.8%
2012	286,830	286,830	0	814,867	35.2%
2013	323,910	422,081	(98,171)	761,442	55.4%
2014	382,657	382,657	0	750,544	51.0%
2015	436,353	436,353	0	841,894	51.8%
2016	449,398	449,398	0	864,498	52.0%
2017	455,458	TBD	TBD	899,426	TBD
2018	491,441	TBD	TBD	924,684	TBD

Section IV - Accounting Information
D. Accrued and Vested Benefits

The actuarially computed Value of Accrued Benefits represents the present value of (a) the benefits based on earnings and service to date expected to become payable at future dates to present employees, (b) the benefits expected to become payable to former employees who have terminated service with vested rights or who have become inactive, and (c) the benefits currently payable to retired participants and beneficiaries.

	As of July 1, 2015	As of July 1, 2016
1. Value of Vested Benefits		
Active Members	$2,173,756	$2,490,673
Terminated Vested Members	410,905	438,753
Retired Members	7,136,169	7,206,109
Disabled Members	161,279	0
Beneficiaries of Deceased Members	945,176	929,474
Total Value of Vested Benefits	10,827,285	11,065,009
2. Value of Non-Vested Benefits	20,287	21,798
3. Total Value of Accrued Benefits: (1) + (2)	10,847,572	11,086,807
4. Market Value of Assets	5,673,072	5,211,593
5. Vested Funded Ratio: (4) / (1)	52.4%	47.1%
6. Accrued Funded Ratio: (4) / (3)	52.3%	47.0%

Section IV - Accounting Information
E. Statement of Changes in Accrued Plan Benefits

Increase/(Decrease) during the 2015-2016 plan year attributable to:

Increase for interest due to the decrease in the discount period	$769,289
Benefits Accumulated/(Forfeited)	199,674
Benefit Payments	(848,153)
Plan Amendments	0
Changes in Actuarial Assumptions	118,425
Net Increase/(Decrease)	239,235

Value of Accrued Plan Benefits:

July 1, 2016	$11,086,807
July 1, 2015	10,847,572
Net Increase/(Decrease)	239,235

Section V - Membership Data
A. Reconciliation of Membership from Prior Valuation

Details of the changes in the Plan membership since the last valuation are shown below. Additional details on the Plan membership are provided in the remainder of Section V.

	Active	Term. Vested	Retirees	Disabled	Bene-ficiaries	Total
Count as of July 1, 2015	10	2	26	1	4	43
Terminated not vested	-	-	-	-	-	0
Terminated, benefits due	-	-	-	-	-	0
Retired	-	-	1	(1)	-	0
Died, with beneficiary	-	-	-	-	-	0
Died, no beneficiary	-	-	-	-	-	0
Transfer in from other plan	-	-	-	-	-	0
New member	-	-	-	-	-	0
New beneficiary	-	-	-	-	-	0
Correction	-	-	-	-	-	0
Count as of July 1, 2016	10	2	27	0	4	43

As of July 1, 2016, the active membership included 3 Board of Education members with payroll of $250,292 and 7 Town members with payroll of $674,392.

Section V - Membership Data
B. Statistics of Membership

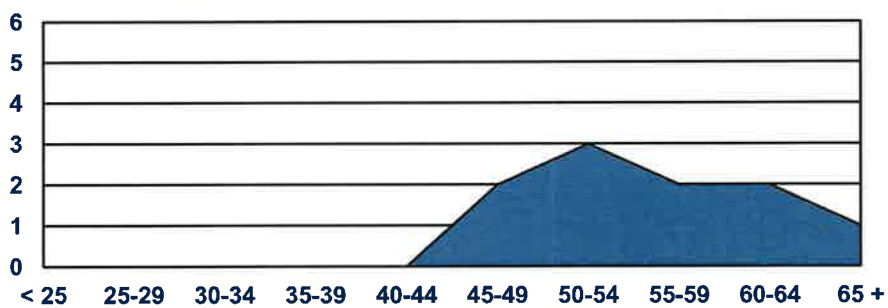
	As of July 1, 2015	As of July 1, 2016
Active Members		
Number	10	10
Average Age	54.9	55.9
Average Service	21.0	22.0
Total Payroll	$899,426	$924,684
Average Payroll	89,943	92,468
Terminated Vested Members		
Number	2	2
Total Annual Benefit	$40,584	$40,584
Average Annual Benefit	20,292	20,292
Average Age	57.5	58.5
Retired Members		
Number	26	27
Total Annual Benefit	$726,431	$742,022
Average Annual Benefit	27,940	27,482
Average Age	71.3	72.0
Disabled Members		
Number	1	0
Total Annual Benefit	$14,577	$0
Average Annual Benefit	14,577	0
Average Age	64.0	0.0
Beneficiaries of Deceased Members		
Number	4	4
Total Annual Benefit	$106,807	$106,807
Average Annual Benefit	26,702	26,702
Average Age	76.8	77.8

Section V - Membership Data

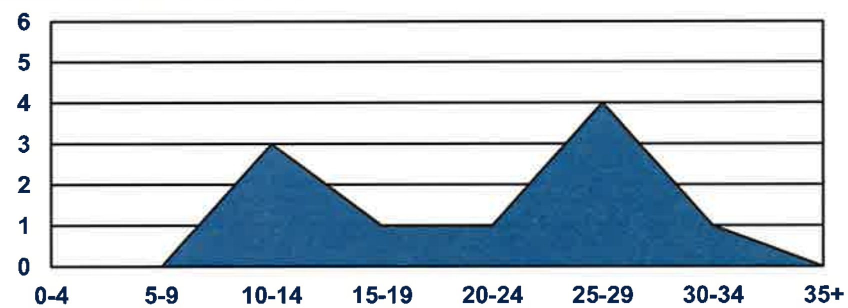
C. Distribution of Active Members as of July 1, 2016 - Count

	Years of Service								
Age	**0-4**	**5-9**	**10-14**	**15-19**	**20-24**	**25-29**	**30-34**	**35+**	**Total**
< 25	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0
30-34	0	0	0	0	0	0	0	0	0
35-39	0	0	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0	0	0
45-49	0	0	1	0	0	1	0	0	2
50-54	0	0	1	1	0	1	0	0	3
55-59	0	0	1	0	0	0	1	0	2
60-64	0	0	0	0	1	1	0	0	2
65 +	0	0	0	0	0	1	0	0	1
Total	0	0	3	1	1	4	1	0	10

Distribution By Age



Distribution by Years of Service



Section V - Membership Data
D. Distribution of Inactive Members as of July 1, 2016

	Age	Number	Annual Benefits
Terminated Vested Members / Members Due Refunds	< 30	0	$0
	30 - 39	0	0
	40 - 49	0	0
	50 - 59	1	32,360
	60 - 64	1	8,225
	65 +	0	0
	Total	2	40,585
Retired Members	< 50	0	$0
	50 - 59	0	0
	60 - 69	13	374,981
	70 - 79	7	232,748
	80 - 89	6	131,377
	90 +	1	2,916
	Total	27	742,022
Disabled Members	< 50	0	$0
	50 - 59	0	0
	60 - 69	0	0
	70 - 79	0	0
	80 - 89	0	0
	90 +	0	0
	Total	0	0
Beneficiaries of Deceased Members	< 50	0	$0
	50 - 59	0	0
	60 - 69	1	50,059
	70 - 79	1	43,710
	80 - 89	2	13,037
	90 +	0	0
	Total	4	106,806

Appendix A - Actuarial Funding Method

The actuarial funding method used in the valuation of this Plan is known as the **Entry Age Normal Cost Method**. Recommended annual contributions until the accrued liability is completely funded will consist of two pieces: Normal Cost plus a payment towards the Unfunded Accrued Liability.

The **Normal Cost** is determined by calculating the present value of future benefits for present active Members that will become payable as the result of death, disability, retirement or termination. This cost is then spread as a level percentage of earnings from entry age to termination as an Active Member. If Normal Costs had been paid at this level for all prior years, a fund would have accumulated. Because this fund represents the portion of benefits that would have been funded to date, it is termed the **Accrued Liability**. In fact, it is calculated by adding the present value of benefits for Retired Members and Terminated Vested Members to the present value of benefits for Active Members and subtracting the present value of future Normal Cost contributions.

The funding cost of the Plan is derived by making certain specific assumptions as to rates of interest, mortality, turnover, etc. which are assumed to hold for many years into the future. Since actual experience may differ somewhat from the assumptions, the costs determined by the valuation must be regarded as estimates of the true costs of the Plan.

The unfunded liability for the plan is the excess of the Accrued Liability over the assets which have been accumulated for the plan. This Unfunded Accrued Liability is amortized as a level percent. Beginning on July 1, 2005, the amortization period is 30 years; the amortization period will decrease each year until it reaches 10 years, after which point it will remain at 10 years.

The **Actuarial Value of Assets** is determined by recognizing asset gains and losses over **five** years.

Appendix B - Actuarial Assumptions

Each of the assumptions used in this valuation was set based on industry standard published tables and data, the particular characteristics of the plan, relevant information from the plan sponsor or other sources about future expectations, and our professional judgment regarding future plan experience. We believe the assumptions are reasonable for the contingencies they are measuring, and are not anticipated to produce significant cumulative actuarial gains or losses over the measurement period.

Interest

Current: 7.25%

Prior: 7.375%

Salary Scale

3.50%

Amortization Growth Rate

3.50%

Expenses

Administrative expenses paid in the prior year, increased by 3% and rounded to the nearest $100.

Healthy Mortality

RP-2000 Combined Healthy Mortality Table, Male and Female, with generational projection of future mortality improvements per Scale AA. This assumption includes a margin for improvements in longevity beyond the valuation date.

Turnover

Rates according to the following table:

Age	Rate
20	11.9%
25	11.8%
30	11.0%
35	10.6%
40	9.5%
45	7.5%
50	5.1%
55	1.2%
60	0.3%

Retirement

Rates according to the following table:

Age	Rate
55-59	5%
60-61	10%
62-64	25%
65	35%
66-69	50%
70	100%

Disability

11th Railroad Retirement Board Disability Rates.

Appendix B - Actuarial Assumptions

Disabled Mortality

RP-2000 Disabled Mortality Table, Male and Female. This assumption does not include a margin for improvements in longevity beyond the valuation date.

Marital Status

80% of members are assumed to be married with wives 3 years younger than husbands.

Appendix C - Summary of Plan Provisions

This exhibit summarizes the major provisions of the Plan. It is not intended to be, nor should it be interpreted as a complete statement of all plan provisions. All eligibility requirements and benefit amounts shall be determined in strict accordance with the plan document itself. To the extent that this summary does not accurately reflect the plan provisions, then the results of this valuation may not be accurate.

Eligibility	Employed for twenty or more hours a week for more than 5 months per calendar year. Employees hired after July 1, 1997 are not covered by this plan.
Final Average Earnings	Highest average earnings received in any three consecutive full calendar years.
Continuous Service	Period of continuous employment with the Town beginning with the first of the month following date of employment.
Aggregate Service	The sum of all periods of Continuous Service.
Member Contributions	4.5% of after tax Earnings. Interest is credited at 4% per annum. Refund of Employee Contributions with interest to date of termination of employment or death, unless the employee is eligible for a deferred retirement income.
Normal Form of Benefit	Modified Cash Refund.
Normal Retirement Date	Earlier of age 65, or age 55 with completion of 30 years of service.
Normal Retirement Benefit	1.75% of Final Average Earnings not in excess of $10,000 plus 2% of Final Average Earnings in excess of $10,000 multiplied by years of Aggregate Service with a minimum of $750 per year.
Early Retirement Date	Age 55 and 10 years of Continuous Service or 15 years of Aggregate Service.
Early Retirement Benefit	Accrued Benefit, actuarially reduced if payments begin prior to the member's 58th birthday.
Death Benefit Eligibility	Married Member (of at least one year) or with minor children. Age 30 with 5 years of Continuous Service.
Death Benefit	35% of benefit accrued to date of death.

Appendix C - Summary of Plan Provisions

Disability Retirement Eligibility	Ten years of Aggregate Service and not eligible for benefits under the Long Term Disability Contract.
Disability Retirement Benefit	Accrued Benefit, not less than $1,000 per year, payable to the earlier of the end of disability, death or Normal Retirement Date.
Vesting	Prior to July 1, 1989 - Ten years of Continuous Service or 15 years of Aggregate Service. Effective July 1, 1989 - Five years of Continuous Service or 15 years of Aggregate Service.
Termination Benefit	Benefit accrued to date of termination with payment commencing on Normal Retirement Date.