



80 Lambertson Road  
Windsor, CT 06095  
USA

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

milliman.com

November 19, 2015

***PERSONAL & CONFIDENTIAL***

Mr. Peter Souza  
Town Manager  
Town Hall  
275 Broad Street  
Windsor, CT 06095

Re: Town of Windsor Retirement Plan

Dear Peter:

We have performed an actuarial valuation of the Town of Windsor Retirement Plan as of July 1, 2015 for the Fiscal Year 2016-2017. The results of the valuation are contained in the following report.

The Annual Required Contribution for Fiscal Year 2016-2017 is \$1,054,742 (7.50% of payroll). The allocation of the contribution to the Town and Board of Education, based on payroll, is as follows:

Town	\$512,888
Board of Education	<u>541,854</u>
Total	1,054,742

Please let me know if you have any questions.

Sincerely,

Rebecca A. Sielman, FSA  
Consulting Actuary



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## **TOWN OF WINDSOR RETIREMENT PLAN**

**Actuarial Valuation as of July 1, 2015  
For Fiscal Year 2016-2017**

**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

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## **Certification**

We have performed an actuarial valuation of the Plan as of July 1, 2015 for fiscal year 2016-2017. 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.



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Rebecca A. Sielman, FSA  
Consulting Actuary

## Section I - Executive Summary

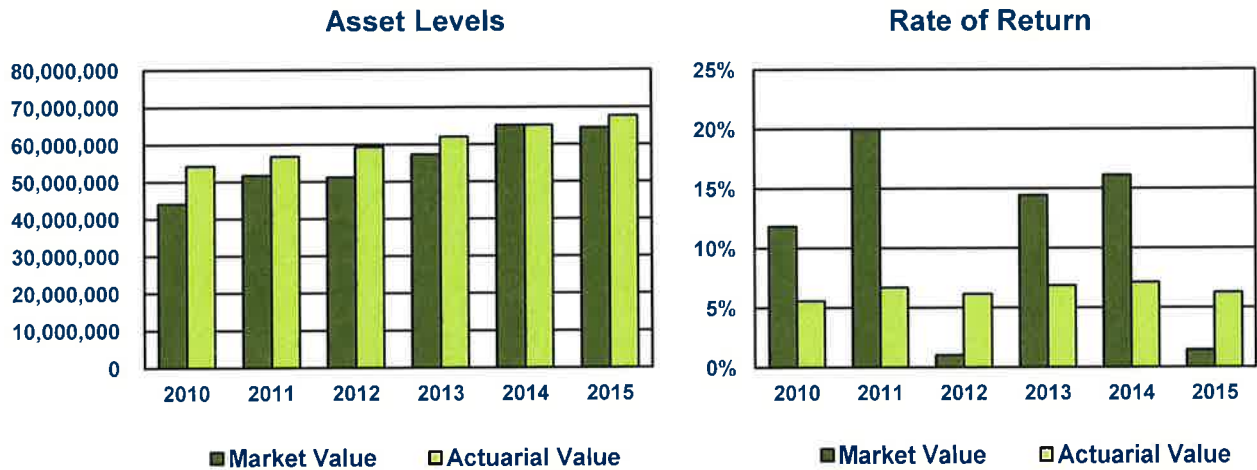
### A. Highlights

#### 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.

	<b>Market</b>	<b>Actuarial</b>
Value as of July 1, 2014	\$65,167,454	\$65,167,454
Contributions	1,611,365	1,611,365
Investment Income	930,735	4,037,465
Benefit Payments and Administrative Expenses	(3,224,449)	(3,224,449)
Value as of July 1, 2015	64,485,105	67,591,835

For 2014, the plan's assets earned 1.45% on a Market Value basis and 6.27% on an Actuarial Value basis. The actuarial assumption for this period was 7.50%; the result is an asset loss of \$3,883,400 on a Market Value basis and a loss of \$792,000 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 \$3,106,700. This figure represents investment losses that will be gradually recognized over the next five years. This process will exert downward pressure on the Town's contribution, unless there are offsetting market gains.

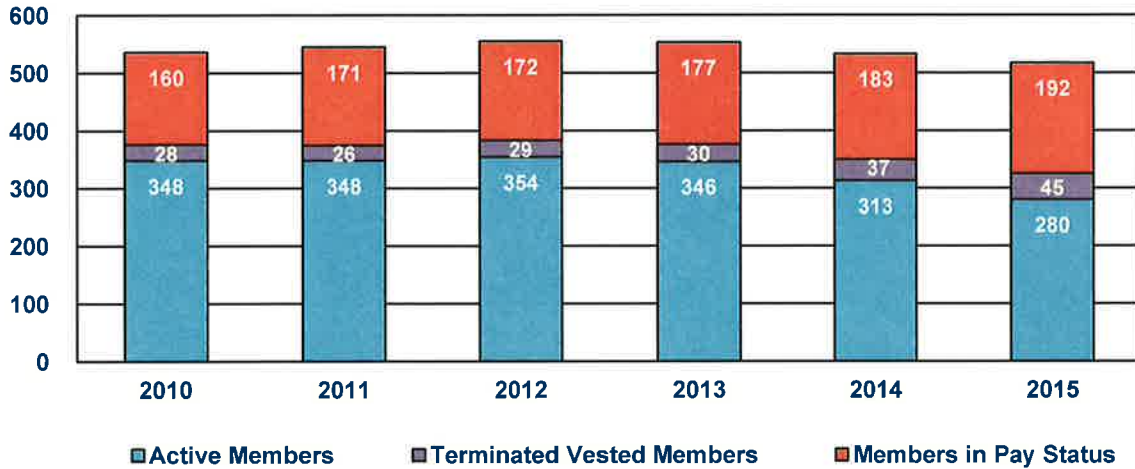
## Section I - Executive Summary

### A. Highlights

#### Membership

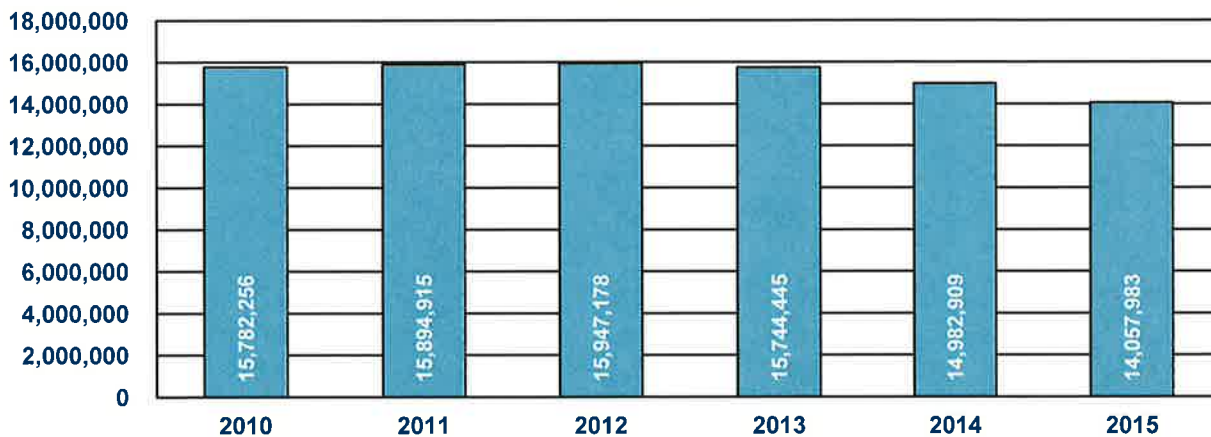
There are three basic categories of plan members included in the actuarial valuation: (1) active employees who have met the eligibility requirements for membership, (2) former employees who have a vested right to benefits but have not yet started collecting, and (3) members who are receiving monthly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

**Number of Members**



From July 1, 2014 to July 1, 2015, the overall membership decreased from 533 to 517. During this period the plan saw the retirement of 17 members and the termination of 8 members who took lump sum distributions plus 10 members who retain deferred vested benefits. There were also 10 retiree deaths which include 2 with continuation of benefits to beneficiaries. Because the plan is now closed to new members, the number of active members will decline over time.

**Payroll**



## Section I - Executive Summary

### A. Highlights

#### Plan Changes

None.

#### Changes in Actuarial Methods or Assumptions

In order to better anticipate future plan experience, we have lowered the interest rate assumption from 7.50% to 7.375%. The impact of this change was to increase the Unfunded Accrued Liability by \$1,007,000 and increase the Actuarially Determined Contribution by \$91,700.

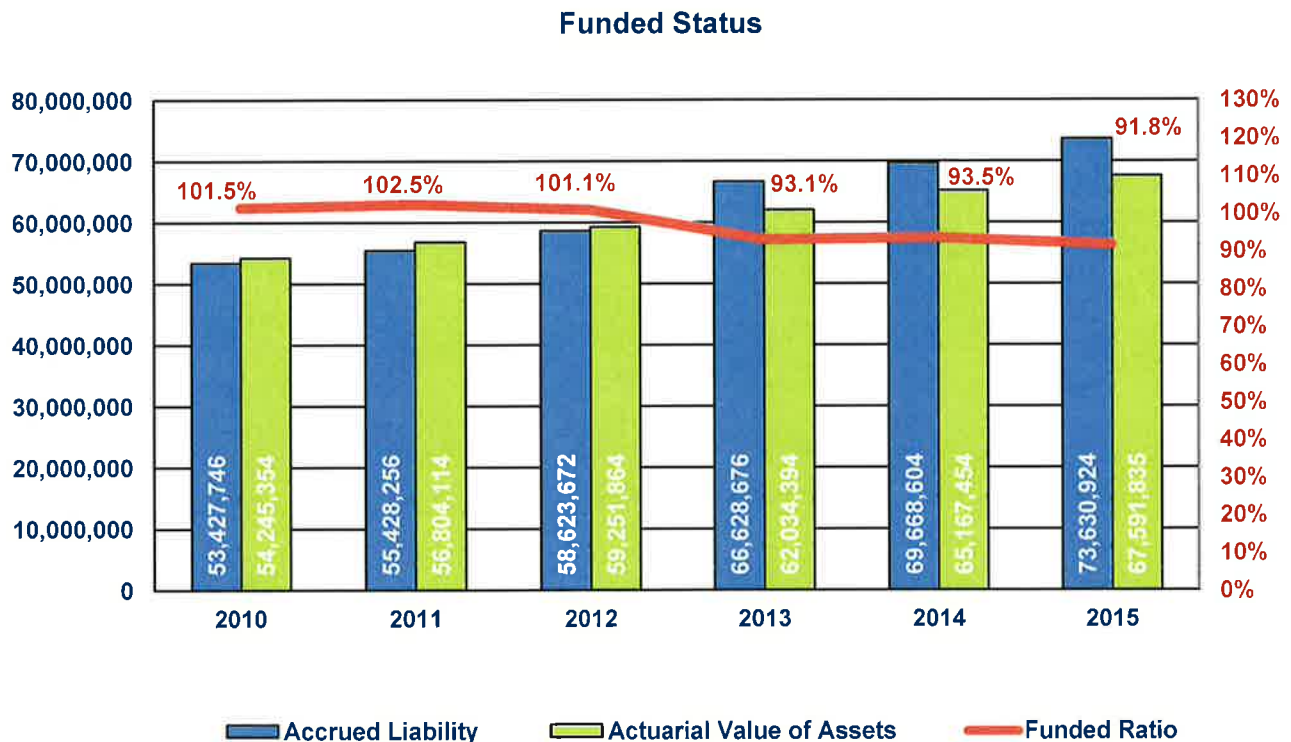


## Section I - Executive Summary

### A. Highlights

#### Funded Status

The chart below shows the plan's Accrued Liability and Actuarial Value of Assets for the past few years. Since investment gains and losses are recognized gradually, the large market losses suffered in 2007-08 and 2008-09 were manifested by a very gradual decline in the funded ratio. The change in 2013 in the actuarial cost method from Projected Unit Credit to Entry Age Normal, along with decreases in the interest rate assumptions in 2013 and 2015 also caused increases in the Accrued Liability and corresponding drops in the funded ratio.



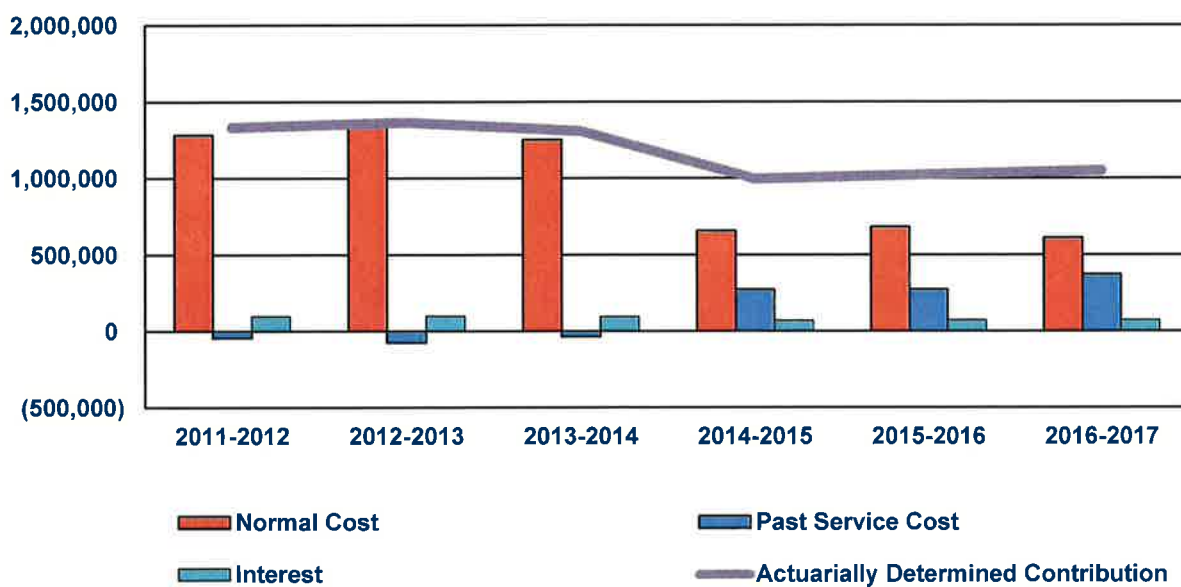
## Section I - Executive Summary

### 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 **Interest** to the end of the year. 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.



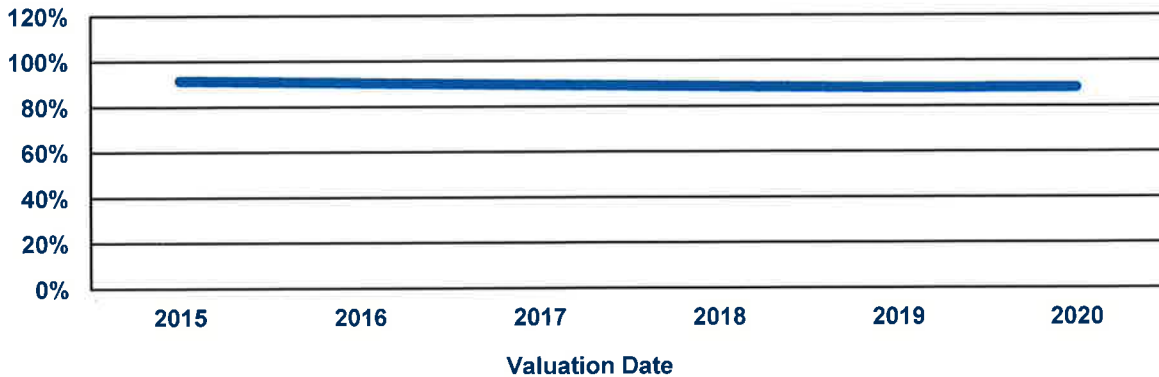
## Section I - Executive Summary

### A. Highlights

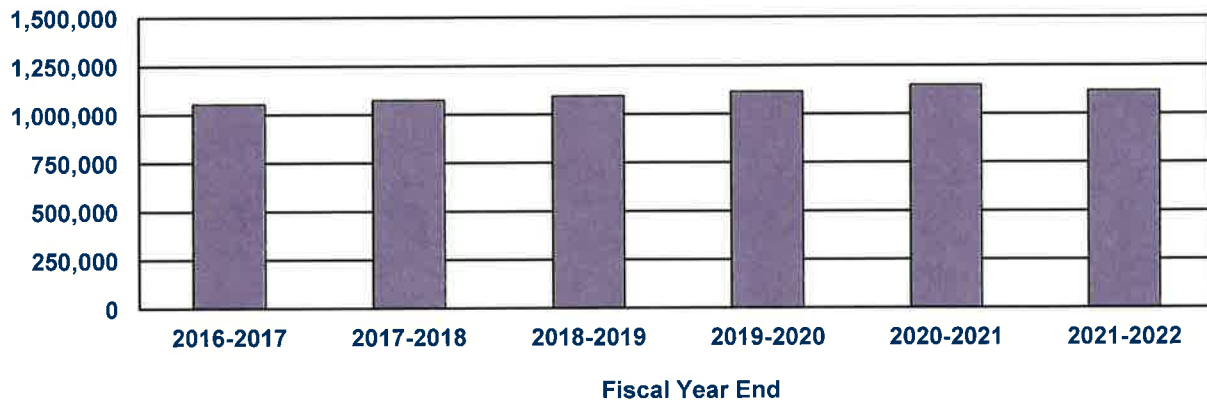
#### Long Range Forecast

We expect the valuation results for the next several years to follow the patterns illustrated below:

**Funded Ratio**



**Actuarially Determined Contribution**



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**

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<b>Membership</b>	<b>July 1, 2014</b>	<b>July 1, 2015</b>
Active Members	313	280
Terminated Vested Members	37	45
Members in Pay Status	183	192
Covered Payroll	\$14,982,909	\$14,057,983
<b>Assets and Liabilities</b>	<b>July 1, 2014</b>	<b>July 1, 2015</b>
Market Value of Assets	\$65,167,454	\$64,485,105
Actuarial Value of Assets	65,167,454	67,591,835
Accrued Liability for Active Members	\$34,790,336	\$35,200,479
Accrued Liability for Terminated Vested Members	2,012,052	2,507,683
Accrued Liability for Members in Pay Status	32,866,216	35,922,762
Total Accrued Liability	69,668,604	73,630,924
Unfunded Accrued Liability	4,501,150	6,039,089
Funded Ratio	93.5%	91.8%
<b>Actuarially Determined Contribution for Fiscal Year</b>	<b>2015-2016</b>	<b>2016-2017</b>
Normal Cost	\$681,466	\$610,450
Past Service Cost	273,454	371,848
Interest	71,619	72,444
Actuarially Determined Contribution	1,026,539	1,054,742

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## Section II - Plan Assets

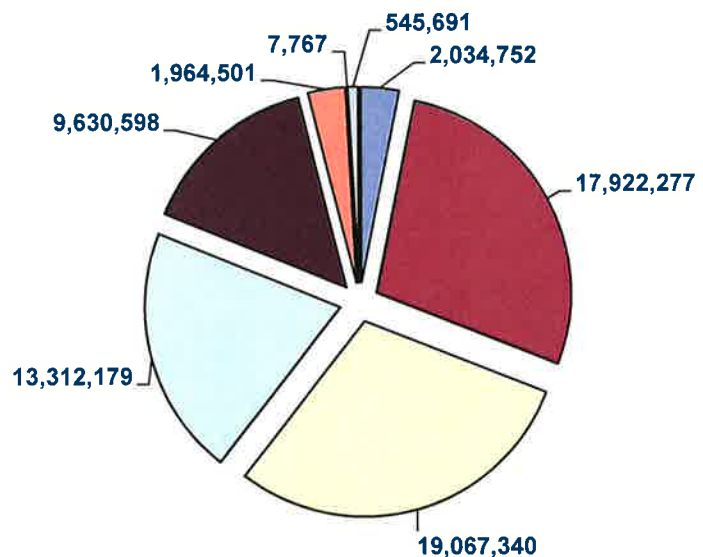
### A. Summary of Fund Transactions

<b>Market Value as of July 1, 2014</b>	<b>\$65,167,454</b>
Employer Contributions	998,378
Employee Contributions	612,987
Benefit Payments	(3,211,082)
Interest and Dividends	1,160,866
Unrealized Gains/(Losses)	(2,990,352)
Realized Gains/(Losses)	2,863,776
Investment Expenses	(103,555)
Administrative Expenses	(13,367)
 <b>Market Value as of July 1, 2015</b>	 <b>64,485,105</b>
 <b>Approximate Rate of Return</b>	 <b>1.45%</b>

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.

#### Asset Allocation

- Cash Equivalents
- Fixed Income
- U.S. Equity
- International Equity
- Asset Allocation Account
- Real Estate
- Accrued Income
- Accruals



**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, 2015 is determined below.

1.	Expected Market Value of Assets:		
	a. Market Value of Assets as of July 1, 2014		\$65,167,454
	b. Employer and Employee Contributions		1,611,365
	c. Benefit Payments and Administrative Expenses		(3,224,449)
	d. Expected Investment Return Based on 7.50% Interest		<u>4,814,147</u>
	e. Expected Market Value of Assets as of July 1, 2015		68,368,517
2.	Actual Market Value of Assets as of July 1, 2015		64,485,105
3.	Market Value (Gain)/Loss: (1e) - (2)		3,883,412
4.	Delayed Recognition of Market (Gains)/Losses:		
		<b>Percent Not</b>	<b>Amount Not</b>
	<b>Plan Year End</b>	<b>(Gain)/Loss</b>	<b>Recognized</b>
	06/30/2015	\$3,883,412	80%
	06/30/2014	0	60%
	06/30/2013	0	40%
	06/30/2012	0	20%
			<u>0</u>
			3,106,730
5.	Actuarial Value as of July 1, 2015: (2) + (4)		67,591,835
6.	Approximate Rate of Return on Actuarial Value		6.27%
7.	Actuarial Value (Gain)/Loss		792,039

## 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, 2009.

	July 1, 2014	July 1, 2015
1. Accrued Liability		
Active Members	\$34,790,336	\$35,200,479
Terminated Vested Members	2,012,052	2,507,683
Retired Members	31,218,151	34,555,536
Disabled Members	100,922	100,620
Beneficiaries of Deceased Members	<u>1,547,143</u>	<u>1,266,606</u>
Total	69,668,604	73,630,924
2. Actuarial Value of Assets (see Section II B)	65,167,454	67,591,835
3. Unfunded Accrued Liability: (1) - (2)	4,501,150	6,039,089
4. Funded Ratio: (2) / (1)	93.5%	91.8%
5. Amortization Period	25	24
6. Amortization Growth Rate	3.50%	3.50%
7. Past Service Cost: (3) amortized over (5)	273,454	371,848

**Section III - Development of Contribution**  
**B. Actuarially Determined Contribution**

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	<b>Fiscal Year 2015-2016</b>	<b>Fiscal Year 2016-2017</b>
1. Total Normal Cost	\$1,145,075	\$1,089,719
2. Expected Employee Contributions	523,109	493,069
3. Expected Expenses	59,500	13,800
4. Net Normal Cost: (1) - (2) + (3)	681,466	610,450
5. Past Service Cost (see Section III A)	273,454	371,848
6. Interest on (4) + (5) to start of next fiscal year	71,619	72,444
7. Actuarially Determined Contribution: (4) + (5) + (6)	1,026,539	1,054,742
8. Allocation of Actuarially Determined Contribution*		
Town	485,624	512,888
Board of Education	540,915	541,854
Total	1,026,539	1,054,742

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\* Allocation on the basis of covered payroll.



**Milliman Actuarial Valuation**

**Section III - Development of Contribution  
C. Long Range Forecast**

This forecast is based on the results of the July 1, 2015 actuarial valuation and assumes that the Town will pay the Actuarially Determined Contribution each year, the assets will return 7.375% on a market value basis each year, and there are no 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	Accrued Liability	Actuarial Value of Assets	Unfunded Accrued Liability	Funded Ratio	Fiscal Year Ending	Town Contributions	Employee Contributions	Benefit Payments	Net Cash Flows
7/1/2015	\$73,630,924	\$67,591,835	\$6,039,089	91.8%	2017	\$1,054,742	\$446,000	(\$4,000,000)	(\$2,499,258)
7/1/2016	76,461,000	69,384,000	7,077,000	90.7%	2018	1,074,000	401,000	(4,417,000)	(2,942,000)
7/1/2017	78,992,000	70,946,000	8,046,000	89.8%	2019	1,093,000	359,000	(4,789,000)	(3,337,000)
7/1/2018	81,164,000	72,222,000	8,942,000	89.0%	2020	1,116,000	318,000	(5,144,000)	(3,710,000)
7/1/2019	83,000,000	73,239,000	9,761,000	88.2%	2021	1,148,000	280,000	(5,477,000)	(4,049,000)
7/1/2020	84,505,000	74,777,000	9,728,000	88.5%	2022	1,118,000	242,000	(5,801,000)	(4,441,000)
7/1/2021	85,677,000	76,078,000	9,599,000	88.8%	2023	1,082,000	210,000	(6,086,000)	(4,794,000)
7/1/2022	86,492,000	77,067,000	9,425,000	89.1%	2024	1,046,000	182,000	(6,356,000)	(5,128,000)
7/1/2023	86,983,000	77,762,000	9,221,000	89.4%	2025	1,018,000	156,000	(6,595,000)	(5,421,000)
7/1/2024	87,152,000	78,160,000	8,992,000	89.7%	2026	1,002,000	132,000	(6,835,000)	(5,701,000)
7/1/2025	87,020,000	78,285,000	8,735,000	90.0%	2027	988,000	112,000	(7,066,000)	(5,966,000)
7/1/2026	86,566,000	78,128,000	8,438,000	90.3%	2028	981,000	95,000	(7,226,000)	(6,150,000)
7/1/2027	85,788,000	77,684,000	8,104,000	90.6%	2029	980,000	81,000	(7,355,000)	(6,294,000)
7/1/2028	84,755,000	77,016,000	7,739,000	90.9%	2030	986,000	69,000	(7,463,000)	(6,408,000)
7/1/2029	83,474,000	76,149,000	7,325,000	91.2%	2031	995,000	58,000	(7,545,000)	(6,492,000)
7/1/2030	81,959,000	75,099,000	6,860,000	91.6%	2032	1,006,000	49,000	(7,605,000)	(6,550,000)
7/1/2031	80,226,000	73,885,000	6,341,000	92.1%	2033	1,019,000	41,000	(7,624,000)	(6,564,000)
7/1/2032	78,286,000	72,520,000	5,766,000	92.6%	2034	1,034,000	35,000	(7,602,000)	(6,533,000)
7/1/2033	76,168,000	71,039,000	5,129,000	93.3%	2035	1,048,000	29,000	(7,594,000)	(6,517,000)
7/1/2034	73,899,000	69,479,000	4,420,000	94.0%	2036	1,061,000	25,000	(7,538,000)	(6,452,000)

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.

This work product was prepared solely for the Town for the purposes described herein and may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. Milliman recommends that third parties be aided by their own actuary or other qualified professional when reviewing the Milliman work product.

**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:

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<b>Valuation Date</b>	July 1, 2015
<b>Actuarial Cost Method</b>	Entry Age Normal
<b>Amortization Method</b>	Level percent
<b>Amortization Period</b>	Closed 30 years from July 1, 2009
<b>Asset Valuation Method</b>	5 Year Smoothed Market Value
<b>Actuarial Assumptions</b>	
Investment Rate of Return	7.375%
Projected Salary Increases	3.50%
Amortization Growth Rate	3.50%
Inflation	2.75%

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**Milliman Actuarial Valuation**

**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)
07/01/2006	2007-2008	\$45,594,279	\$41,130,295	(\$4,463,984)	110.9%	\$14,776,977	0.0%
07/01/2007	2008-2009	48,961,596	43,855,272	(5,106,324)	111.6%	15,265,451	0.0%
07/01/2008	2009-2010	51,029,433	45,790,887	(5,238,546)	111.4%	15,671,874	0.0%
07/01/2009	2010-2011	52,671,376	50,355,944	(2,315,432)	104.6%	15,875,106	0.0%
07/01/2010	2011-2012	54,245,354	53,427,746	(817,608)	101.5%	15,782,256	0.0%
07/01/2011	2012-2013	56,804,114	55,428,256	(1,375,858)	102.5%	15,894,915	0.0%
07/01/2012	2013-2014	59,251,864	58,623,672	(628,192)	101.1%	15,947,178	0.0%
07/01/2013	2014-2015	62,034,394	66,628,676	4,594,282	93.1%	15,744,445	29.2%
07/01/2014	2015-2016	65,167,454	69,668,604	4,501,150	93.5%	14,982,909	30.0%
07/01/2015	2016-2017	67,591,835	73,630,924	6,039,089	91.8%	14,057,983	43.0%

This work product was prepared solely for the Town for the purposes described herein and may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. Milliman recommends that third parties be aided by their own actuary or other qualified professional when reviewing the Milliman work product.

**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)
2008	\$827,855	\$827,855	\$0	\$14,776,977	5.60%
2009	834,453	834,453	0	15,265,451	5.47%
2010	843,833	843,833	0	15,671,874	5.38%
2011	1,273,290	1,273,290	0	15,875,106	8.02%
2012	1,334,389	1,334,389	0	15,782,256	8.45%
2013	1,367,561	1,367,561	0	15,894,915	8.60%
2014	1,311,760	1,311,760	0	15,947,178	8.23%
2015	998,378	998,378	0	15,744,445	6.34%
2016	1,026,539	TBD	TBD	14,982,909	TBD
2017	1,054,742	TBD	TBD	14,057,983	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.

	<b>As of July 1, 2014</b>	<b>As of July 1, 2015</b>
1. Value of Vested Benefits		
Active Members	\$25,805,722	\$26,013,526
Terminated Vested Members	2,012,052	2,507,683
Retired Members	31,218,151	34,555,536
Disabled Members	100,922	100,620
Beneficiaries of Deceased Members	<u>1,547,143</u>	<u>1,266,606</u>
Total Value of Vested Benefits	60,683,990	64,443,971
2. Value of Non-Vested Benefits	598,692	538,531
3. Total Value of Accrued Benefits: (1) + (2)	61,282,682	64,982,502
4. Market Value of Assets	65,167,454	64,485,105
5. Vested Funded Ratio: (4) / (1)	107.4%	100.1%
6. Accrued Funded Ratio: (4) / (3)	106.3%	99.2%

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

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**Increase/(Decrease) during the 2014-2015 plan year attributable to:**

Increase for interest due to the decrease in the discount period	\$4,477,962
Benefits Accumulated/(Forfeited)	1,585,348
Benefit Payments	(3,211,082)
Plan Amendments	0
Changes in Actuarial Assumptions	847,592
Net Increase/(Decrease)	3,699,820

**Value of Accrued Plan Benefits:**

July 1, 2015	\$64,982,502
July 1, 2014	61,282,682
Net Increase/(Decrease)	3,699,820

---

**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
<b>Count as of July 1, 2014</b>	313	37	165	2	16	533
Terminated, due refund	-	-	-	-	-	0
Terminated, benefits due	(10)	10	-	-	-	0
Retired	(16)	(1)	17	-	-	0
Died, with beneficiary	-	-	(5)	-	-	(5)
Died, no beneficiary	-	-	(2)	-	(3)	(5)
Paid refund	(7)	(1)	-	-	-	(8)
New member	-	-	-	-	-	0
New beneficiary	-	-	-	-	2	2
Returned to Active	-	-	-	-	-	0
Correction	-	-	-	-	-	0
<b>Count as of July 1, 2015</b>	280	45	175	2	15	517

**Section V - Membership Data**  
**B. Statistics of Membership**

	As of July 1, 2014 *	As of July 1, 2015 **
<b>Active Members</b>		
Number	313	280
Average Age	51.6	52.4
Average Service	12.9	13.7
Covered Payroll	\$14,982,909	\$14,057,983
Average Payroll	47,869	50,207
<b>Terminated Vested Members</b>		
Number	37	45
Total Annual Benefit	\$292,737	\$348,729
Average Annual Benefit	7,912	7,750
Average Age	52.6	53.2
<b>Retired Members</b>		
Number	165	175
Total Annual Benefit	\$2,928,656	\$3,201,970
Average Annual Benefit	17,749	18,297
Average Age	73.3	73.1
<b>Disabled Members</b>		
Number	2	2
Total Annual Benefit	\$19,977	\$20,316
Average Annual Benefit	9,989	10,158
Average Age	66.5	67.5
<b>Beneficiaries of Deceased Members</b>		
Number	16	15
Total Annual Benefit	\$190,657	\$155,616
Average Annual Benefit	11,916	10,374
Average Age	78.1	78.9

\* Does not include statistics for 1 retiree and 2 beneficiaries who are covered for COLA only.

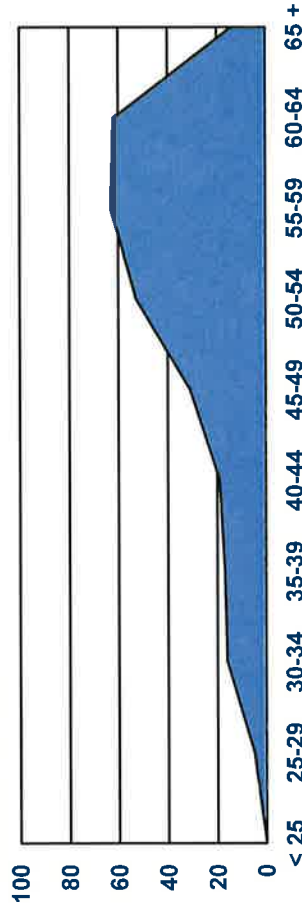
\*\* Does not include statistics for 1 beneficiary who is covered for COLA only.



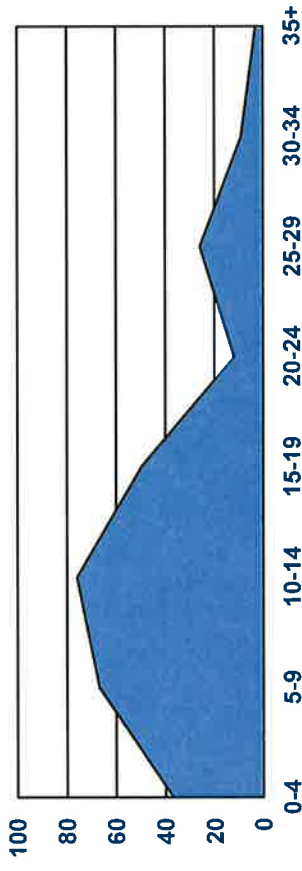
**Section V - Membership Data**  
**C. Distribution of Active Members as of July 1, 2015 - Count**

Age	Years of Service										Total
	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	0	0
25-29	2	2	1	0	0	0	0	0	0	0	5
30-34	7	7	2	0	0	0	0	0	0	0	16
35-39	5	9	2	1	0	0	0	0	0	0	17
40-44	6	8	1	4	0	0	0	0	0	0	19
45-49	3	9	9	5	3	2	0	0	0	0	31
50-54	5	12	15	8	2	9	1	1	1	1	53
55-59	3	12	19	19	2	4	3	1	1	1	63
60-64	6	7	19	12	4	10	3	1	1	1	62
65 +	0	1	8	1	1	1	2	0	0	0	14
<b>Total</b>	<b>37</b>	<b>67</b>	<b>76</b>	<b>50</b>	<b>12</b>	<b>26</b>	<b>9</b>	<b>3</b>	<b>9</b>	<b>3</b>	<b>280</b>

**Distribution By Age**



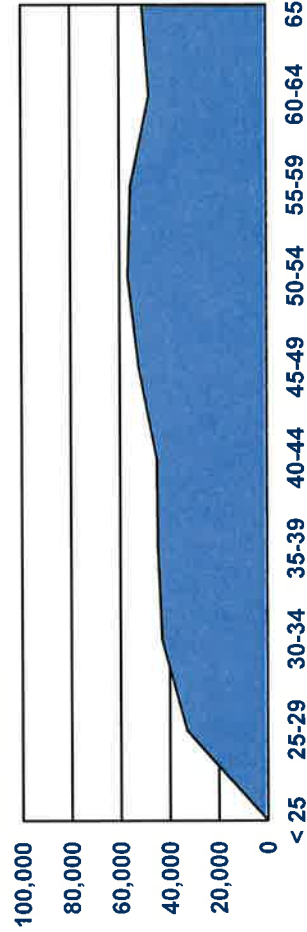
**Distribution by Years of Service**



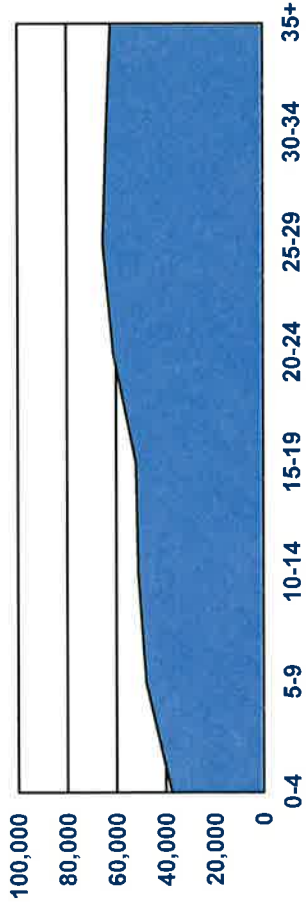
**Section V - Membership Data**  
**D. Distribution of Active Members as of July 1, 2015 - Average Pay**

Age	Years of Service										Total
	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	0	0
25-29	46,171	25,507	22,550	0	0	0	0	0	0	0	33,181
30-34	33,804	49,289	54,691	0	0	0	0	0	0	0	43,190
35-39	27,080	51,022	63,092	39,746	0	0	0	0	0	0	44,737
40-44	28,452	49,234	32,075	65,238	0	0	0	0	0	0	45,137
45-49	40,842	44,635	52,261	63,972	58,853	67,359	0	0	0	0	52,443
50-54	42,451	59,372	52,068	59,112	73,511	65,211	54,741	43,403	0	0	56,805
55-59	65,698	43,298	54,078	50,688	73,532	78,371	83,824	85,360	0	0	55,628
60-64	37,536	42,494	48,755	40,946	52,731	58,545	58,111	57,499	0	0	47,880
65 +	0	29,266	49,465	56,214	53,838	78,820	47,397	0	0	0	50,618
<b>Total</b>	<b>37,626</b>	<b>47,904</b>	<b>51,199</b>	<b>52,082</b>	<b>61,284</b>	<b>65,360</b>	<b>63,927</b>	<b>62,087</b>	<b>51,048</b>	<b>51,048</b>	

**Distribution By Age**



**Distribution by Years of Service**



**Section V - Membership Data**  
**E. Distribution of Inactive Members as of July 1, 2015**

	Age	Number	Annual Benefits
<b>Terminated Vested Members /</b>	< 30	2	\$0
<b>Members Due Refunds</b>	30 - 39	5	23,406
	40 - 49	8	66,424
	50 - 59	12	106,660
	60 - 64	15	138,387
	65 +	3	13,851
	Total	45	348,728
 <b>Retired Members</b>	< 50	0	\$0
	50 - 59	4	151,379
	60 - 69	65	1,359,078
	70 - 79	66	1,253,732
	80 - 89	33	354,052
	90 +	7	83,729
	Total	175	3,201,970
 <b>Disabled Members</b>	< 50	0	\$0
	50 - 59	1	5,724
	60 - 69	0	0
	70 - 79	1	14,592
	80 - 89	0	0
	90 +	0	0
	Total	2	20,316
 <b>Beneficiaries of Deceased Members *</b>	< 50	0	\$0
	50 - 59	2	24,102
	60 - 69	0	0
	70 - 79	4	53,791
	80 - 89	8	70,132
	90 +	1	7,591
	Total	15	155,616

\* Does not include statistics for 1 beneficiary who is covered for COLA only.

## 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, 2009, 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.

Beginning with the July 1, 2014, the Actuarial Value of Assets has been reset to equal the Market Value. In subsequent years, market gains and losses are recognized over a 5 year period.

## 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.

<b>Interest Rate</b>	Current: 7.375%										
	Prior: 7.50%										
<b>Salary Scale</b>	3.50%										
<b>Amortization Growth Rate</b>	3.50%										
<b>Cost of Living Adjustment</b>	2.25%										
<b>Expenses</b>	Prior year's expenses plus 3%, rounded to the nearest \$100.										
<b>Healthy Mortality</b>	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.										
<b>Disabled Mortality</b>	RP-2000 Disabled Mortality Table, Male and Female. This assumption assumes no improvements in longevity beyond the valuation date.										
<b>Turnover</b>	According to the Crocker-Sarason T9 Table:										
	<table border="0"> <thead> <tr> <th style="text-align: center;">Age</th> <th style="text-align: center;">Rate</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">17.95%</td> </tr> <tr> <td style="text-align: center;">30</td> <td style="text-align: center;">15.85%</td> </tr> <tr> <td style="text-align: center;">40</td> <td style="text-align: center;">11.27%</td> </tr> <tr> <td style="text-align: center;">50</td> <td style="text-align: center;">5.10%</td> </tr> </tbody> </table>	Age	Rate	20	17.95%	30	15.85%	40	11.27%	50	5.10%
Age	Rate										
20	17.95%										
30	15.85%										
40	11.27%										
50	5.10%										
<b>Retirement</b>	15% at age 55 with 10 years of service.										
	40% at the earlier of age 55 with 30 years of service or age 65.										
	At all other ages:										
	<table border="0"> <thead> <tr> <th style="text-align: center;">Age</th> <th style="text-align: center;">Rate</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">56-59</td> <td style="text-align: center;">10%</td> </tr> <tr> <td style="text-align: center;">60-61</td> <td style="text-align: center;">20%</td> </tr> <tr> <td style="text-align: center;">62-69</td> <td style="text-align: center;">30%</td> </tr> <tr> <td style="text-align: center;">70</td> <td style="text-align: center;">100%</td> </tr> </tbody> </table>	Age	Rate	56-59	10%	60-61	20%	62-69	30%	70	100%
Age	Rate										
56-59	10%										
60-61	20%										
62-69	30%										
70	100%										

## Appendix B - Actuarial Assumptions

**Disability** 50% of 1985 Pension Class 1 table:

<b>Age</b>	<b>Male</b>	<b>Female</b>
25	0.02%	0.02%
35	0.03%	0.07%
45	0.10%	0.16%
55	0.36%	0.48%
65	0.88%	0.68%

100% of all disabilities are assumed to be non-service connected.

**Form of Annuity** 3 Year Certain and Life as an approximation to Modified Cash Refund.

## 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.

<b>Eligibility</b>	All employees of the Town who were covered under the Connecticut Municipal Employees' Retirement Fund A on June 30, 1971 are included in the Plan. New employees shall be included on date of hire. The plan is closed to all new employees on or after July 1, 2014.
<b>Employee Contributions</b>	<p>Unaffiliated and Administrative Professional Employees: 3.25% of earnings. All other employees: 4.00% of earnings.</p> <p>Employee Contributions will be credited at the rate of 4% per year through December 31, 1978 and 6% per year thereafter.</p> <p>A refund of Employee Contributions with interest to the date of termination of employment or death is paid, unless the employee is eligible for a deferred retirement benefit.</p>
<b>Credited Service</b>	Years and months of continuous service. Food Service employees will not receive service prior to February 19, 1986 and members of the Windsor Paraprofessional Employees Association will not receive service for years prior to September 1, 1990.
<b>Final Average Earnings</b>	Highest average earnings including overtime, longevity pay and any other form of additional compensation received in any 36 consecutive months out of the last 120 months of employment months prior to the earlier of age 65 or termination of employment.
<b>Normal Retirement Date</b>	The earlier of age 65, age 55 with 30 years of Credited Service, or any age with 35 years of Credited Service for employees who were participants on or before December 31, 1979.
<b>Normal Retirement Benefit</b>	<p>1.75% of Final Average Earnings multiplied by Credited Service.</p> <p>For employees who were members as of October 9, 1998, retirement benefits will not be less than the amount determined under the pre-October 9, 1998 formula.</p>

## Appendix C - Summary of Plan Provisions

<b>Early Retirement Date</b>	Age 55 and 10 years of Credited Service.
<b>Early Retirement Benefit</b>	Benefit is based on Credited Service and Final Average Earnings to actual retirement date reduced by 6.7% for the first 5 years and 3.3% for each of the next 5 years by which Early Retirement Date precedes Normal Retirement Date.
<b>Deferred Retirement Date</b>	Members may continue to work beyond Normal Retirement.
<b>Deferred Retirement Benefit</b>	Benefit based on Credited Service and Final Average Earnings to Deferred Retirement Date.
<b>Preretirement Death Benefit</b>	Accumulated Employee Contributions in lieu of all benefits.
<b>Disability Retirement Service Connected</b>	Greater of Normal Retirement Benefit calculated using Credited Service and Final Average Earnings through date of disability, or 50% of Monthly Earnings averaged over the 12 months preceding disability.
<b>Disability Retirement Non-Service Connected</b>	If the Member has 10 years of Service, Normal Retirement Benefit calculated using Credited Service and Final Average Earnings through date of disability.
<b>Disability Minimum Benefit</b>	\$300 per month.
<b>Disability Maximum Benefit</b>	75% of Final Average Earnings including non-plan disability earnings from Employer sources.
<b>Vesting</b>	A member is 100% vested after 5 years of Credited Service.
<b>Termination Benefit</b>	Normal Retirement Benefit calculated using Credited Service and Final Average Earnings through date of termination.  All benefits are forfeited upon withdrawal of Employee Contributions.
<b>Normal Form of Benefit</b>	Modified Cash Refund.
<b>Cost of Living Adjustment</b>	Benefits will increase annually based on increases in the Cost of Living Adjustment that applies to primary insurance amounts under the federal Social Security Act.