

GASB Statements No. 67 and 68  
Report for Fiscal Year 2018

Weymouth Retirement System

Lawrence B. Stone



**stoneconsulting,inc**

5 West Mill Street, Suite 4  
Medfield, Massachusetts 02052  
T: 508.359.9600 • F: 508.359.0190  
Lstone@stoneconsult.com

**TABLE OF CONTENTS**

	PAGE
Actuarial Certification	
GASB Statements No. 67 and 68 – Net Pension Liability.....	3
Changes to the Net Pension Liability [GASB 68, Paragraph 80].....	3
Projection of the Net Pension Liability .....	4
Distribution of the Member Population.....	4
Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions [GASB 68, Paragraph 80 h.].....	5
Development of Exhibits .....	5
Discount Sensitivity [GASB 68, Paragraph 78 g.] .....	6
Long-Term Expected Real Rate of Return.....	6
Schedule of Changes in Weymouth’s Net Pension Liability and Related Ratios.....	7
Schedule of Plan Contributions .....	8
Components of Weymouth’s Pension Expense for the Fiscal Year Ended June 30, 2018 [GASB 68, Paragraph 71].....	9
Increase / (Decrease) in Pension Expense Arising from the Recognition of Gains and Losses.....	11
Deferred Outflows and Deferred Inflows of Resources Arising from Gains and Losses.....	12
GASB Statement No. 67, Paragraph 30 b. (4) - Money-Weighed Rate of Return, 2017.....	13
Exhibits and Required Supplementary Information by Employer .....	14

September 28, 2018

Weymouth Retirement System  
807 Broad Street  
Weymouth, MA 02189

Dear Members of the Board:

For the purpose of satisfying the requirements of the Government Accounting Standards Board (GASB) Statements No. 67 and 68, Stone Consulting, Inc. has prepared a set of illustrative tables and other Required Supplementary Information (RSI) based on the January 1, 2016 actuarial valuation of the Weymouth Retirement System performed by Stone Consulting, Inc. The valuation and this report were prepared using generally accepted actuarial principles and practices and meet the parameters set by the Governmental Accounting Standards Board (GASB).

For GASB 67 the results are as of a valuation date of January 1, 2016 and a reporting date of December 31, 2017. For GASB 68 the results are as of a valuation date of January 1, 2016, a measurement date of December 31, 2017 and a reporting date of June 30, 2018. To the best of our knowledge, this report is complete and accurate, and the assumptions used represent our best estimate of anticipated experience of the system. The methods, assumptions, and plan provisions used to prepare these exhibits are consistent with those used in the funding valuation, and are outlined in the January 1, 2016 funding valuation report unless otherwise stated in this report.

We are pleased to present these exhibits. If the Weymouth Board has any questions on the content of this report, we would be glad to respond. Please note that this report is meant to be used in its entirety. Use of excerpts of this report may result in a misleading or inaccurate understanding of the results.

The undersigned is a consultant for Stone Consulting, Inc. and a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,  
STONE CONSULTING, INC.  
Actuaries for the Plan



Lawrence B. Stone  
Member, American Academy of Actuaries

**GASB Statements No. 67 and 68 – Net Pension Liability**

The components of the Net Pension Liability of the Weymouth Retirement System as of December 31, 2017 were as follows:

Total Pension Liability (TPL)	\$ 292,964,226
Plan Fiduciary Net Position (FNP)	<u>199,286,713</u>
System's Net Pension Liability (NPL)	\$ 93,677,512
Plan FNP as a percentage of the TPL	68.0%
Covered Payroll	\$ 41,594,955
Plan NPL as a percentage of Covered Payroll	225.2%

NOTE: Totals in this report may not sum due to rounding

**Changes to the Net Pension Liability [GASB 68, Paragraph 80]**

	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (a) - (b)
<b>Balances at beginning of Measurement Period (01/01/2017)</b>	\$ 284,403,536	\$ 175,063,322	\$ 109,340,215
<u>Changes for the Year:</u>			
Service Cost	5,403,712		5,403,712
Interest	21,739,971		21,739,971
Change in benefit terms	0		0
Differences between expected and actual experience	0		0
Change in assumptions	0		0
Contributions - employer		10,863,755	(10,863,755)
Contributions - employee		4,072,092	(4,072,092)
Net investment income		28,266,383	(28,266,383)
Benefit payments, including refunds of employee contributions	(18,582,994)	(18,582,994)	0
Administrative expense		(395,845)	395,845
Other changes		0	0
Net Changes	<u>8,560,689</u>	<u>24,223,392</u>	<u>(15,662,702)</u>
<b>Balances at end of Measurement Period (12/31/2017)</b>	\$ 292,964,226	\$ 199,286,713	\$ 93,677,512

Update procedures were used to roll the Total Pension Liability forward from the valuation date (01/01/2016) to the measurement date (12/31/2017). [GASB Statement No. 68, Paragraph 80 c.]

**Projection of the Net Pension Liability**

**TOTAL PENSION LIABILITY (TPL)**

The Total Pension Liability at the beginning of the measurement period (01/01/2017) is equal to the TPL from the end of the end of the previous measurement period. The TPL is projected to the end of each measurement period (12/31/2017) by adding all of the changes resulting from experience, assumption changes, and changes to plan provisions. Interest is given to the TPL, Service Cost, and paid benefits, and added to the total, less the projected benefit payments for the year. Changes due to expected and actual gains on pension plan assets will be recognized over a five-year period [GASB Statement No. 68, Paragraph 71b], and liabilities arising from experience or changes in assumptions will be spread over the lifetime of the current employees [GASB Statement No. 68, Paragraph 71a].

GASB Statement No. 68, Paragraph 70 requires that the AAL be calculated under the Entry Age Normal Cost Method. Any changes since the prior valuation in assumptions or plan provisions are calculated, and the remainder of any difference between the projected TPL and the Accrued Liability is recognized as “Differences between actual and expected experience”.

Net 3(8)(c) payments are included in the TPL by assuming that every dollar of 3(8)(c) net benefit generates the same amount of liability as a dollar of the total retirement benefit. This differs from the funding valuation, where we fund the net 3(8)(c) payments on a pay-as-you-go basis. A liability figure of \$(320,293) for Net 3(8)(c) payments was calculated as of January 1, 2016 and added to the TPL as of that date.

**PLAN FIDUCIARY NET POSITION (FNP)**

GASB Statement No. 68, Paragraph 59 requires that Market Value of Assets be used for the Fiduciary Net Position. Net investment income is the portion of the change in assets during the measurement period not attributed to employee/employer contributions, benefits payments, administrative expense, or other changes.

The projected Net Pension Liability (NPL) for the end of the year is the portion of the TPL not covered by the FNP. This amount is presented as a percentage of covered employee payroll. The NPL ratio for Weymouth is 225.2% of covered payroll. In this report, covered payroll is reported as described in GASB Statement No. 82. It is a projected pensionable payroll for the measurement period.

**Distribution of the Member Population**

As of January 1, 2016, the following employees were covered by the benefits terms:

Inactive employees or beneficiaries currently receiving benefits	621
Inactive employees entitled to a return of contributions	148
Active employees	<u>840</u>
<b>TOTAL</b>	<b>1,609</b>

■ Weymouth Retirement System  
 GASB Statements No. 67 and 68

**Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions [GASB 68, Paragraph 80 h.]**

	Deferred Outflows Of Resources	Deferred Inflows Of Resources
Differences between expected and actual experience	\$ 569,444	\$ 0
Changes of assumptions	2,314,856	0
Net difference between projected and actual earnings on pension plan investments	<u>0</u>	<u>(5,192,395)</u>
Total	\$ 2,884,300	\$ (5,192,395)

Year Ending December 31, *	Recognition
2018	\$ 1,188,879
2019	856,707
2020	(1,794,595)
2021	(2,559,085)
2022	0
Thereafter	0

\*The years are based on measurement date. For GASB 68, the year ending December 31, 2018 is Fiscal 2019.

**Development of Exhibits**

**DISCOUNT RATE**

Projections were made using a discount rate assumption of 7.75%, which is consistent with the assumption used in the valuation. One of the objectives of the provisions introduced by GASB 68 is to examine how benefit payments and plan contributions and investment earnings interact on a cash flow basis. GASB requires that these amounts be calculated with Market Value of Assets and using the Entry Age Normal cost method.

Projected contributions for each year are the sum of the projected normal cost, the amortization of the unfunded liability, administrative expense, and other benefit costs such as 3(8)(c) payments. The amortization bases and periods are consistent with those seen in the valuation report. Administrative expenses are increased by 4.25% per year. Weymouth's Fiduciary Net Position was projected to be available to make all future benefit payments of current active and inactive employees. Thus, the long-term expected rate of return on investments was applied for all benefit periods when calculating the Net Pension Liability.

The long-term rate of return which was used to develop the discount rate of 7.75% includes the effect of inflation (not subtracted out as in the real rates of return). It is based on a combination of expected rates of return on the mix of current and expected investments over a long-term period. These expectations are based on current market conditions, historical experience and future expectations. It assumes a rebalancing of assets on an ongoing basis as well as a constant monitoring of asset allocation and manager performance.

GASB Statement No. 67, Paragraph 30 b. 4 requires that a return rate for the measurement period be developed using the market value of assets at the beginning of the measurement period, along with monthly cash flows. This has been done for the 2017 calendar year, and is shown on the following page and on page 13.

Calendar Year	2017
Money-Weighted Rate of Return	16.42%

**Discount Sensitivity [GASB 68, Paragraph 78 g.]**

The following presents Weymouth’s Net Pension Liability calculated at the valuation discount rate of 7.75%, as well as at discount rates one percent higher (8.75%) and one percent lower (6.75%).

Fiscal Year	1% Decrease (6.75%)	Current Discount Rate (7.75%)	1% Increase (8.75%)
2018	\$ 125,739,584	\$ 93,677,512	\$ 71,371,488

**Long-Term Expected Real Rate of Return**

The long-term expected real rate of return reflects the expected rate of return on plan assets minus the expected rate of inflation. Note that the discount rate includes the effect of inflation. The long-term real rate of return removes the effect of inflation on the return amounts. It is a long-term assumption and is meant to reflect a best estimate of future experience, based on the expected asset allocation. The allocation percentages are based on information provided by the Weymouth Retirement System and their asset consultant, FIA. The real rates of return below are based on 20-year return estimates provided by FIA, based on a 2.25% inflation assumption.

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return (Geometric Average)
Core Fixed Income	15.00%	1.65%
Global Bonds	5.00%	1.85%
Domestic Large Cap	34.00%	5.55%
Domestic Small Cap	5.50%	6.00%
International Equity	17.50%	5.55%
Real Estate	10.00%	4.20%
Commodities	1.00%	2.40%
Hedge Funds	7.00%	3.45%
Private Equity	5.00%	7.05%

**Schedule of Changes in Weymouth's  
Net Pension Liability and Related Ratios**

(Amounts in Thousands)

Fiscal Year *	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
<b>TOTAL PENSION LIABILITY</b>										
Service cost	5,404	5,183	4,937	4,736						
Interest	21,740	20,765	20,455	19,869						
Change of benefit terms	-	-	-	-						
Differences between expected and actual experience	-	895	-	-						
Change of assumptions	-	3,638	-	-						
Benefit payments , including refunds of employee contributions	(18,583)	(17,647)	(17,259)	(17,470)						
<b>Net change in total pension liability</b>	<b>8,561</b>	<b>12,834</b>	<b>8,133</b>	<b>7,135</b>						
<b>Total pension liability - beginning</b>	<b>284,404</b>	<b>271,570</b>	<b>263,436</b>	<b>256,302</b>						
<b>Total pension liability - ending</b>	<b>292,964</b>	<b>284,404</b>	<b>271,570</b>	<b>263,436</b>						
<b>PLAN FIDUCIARY NET POSITION</b>										
Contributions - employer	10,864	10,167	9,842	9,484						
Contributions - employee	4,072	3,791	3,729	3,994						
Net Investment Income	28,266	11,103	126	11,176						* Information not available for years prior to 2015
Benefit payments , including refunds of employee contributions	(18,583)	(17,647)	(17,259)	(17,470)						
Administrative expense	(396)	(387)	(371)	(444)						
Other	-	-	-	-						
<b>Net change in plan fiduciary net position</b>	<b>24,223</b>	<b>7,027</b>	<b>(3,932)</b>	<b>6,739</b>						
<b>Plan fiduciary net position - beginning</b>	<b>175,063</b>	<b>168,036</b>	<b>171,968</b>	<b>165,228</b>						
<b>Plan fiduciary net position - end</b>	<b>199,287</b>	<b>175,063</b>	<b>168,036</b>	<b>171,968</b>						
<b>Weymouth net pension liability - ending</b>	<b>93,678</b>	<b>109,340</b>	<b>103,534</b>	<b>91,469</b>						
<b>Plan fiduciary net position as a percentage of the total pension liability</b>	<b>68.0%</b>	<b>61.6%</b>	<b>61.9%</b>	<b>65.3%</b>						
<b>Covered-employee payroll</b>	<b>41,595</b>	<b>39,953</b>	<b>38,802</b>	<b>37,328</b>						
<b>Weymouth's net pension liability as a percentage of covered employee payroll</b>	<b>225.2%</b>	<b>273.7%</b>	<b>266.8%</b>	<b>245.0%</b>						

Note: sums may not total due to rounding



## Schedule of Plan Contributions

(Amounts in Thousands)

Fiscal Year	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Actuarially determined contribution	\$ 10,861	\$ 10,164	\$ 9,835	\$ 9,479						
Contributions in relation to the actuarially determined contribution	<u>(10,864)</u>	<u>(10,167)</u>	<u>(9,842)</u>	<u>(9,484)</u>						
Contribution deficiency / (excess)*	(3)	(3)	(7)	(5)	* Information not available for years prior to 2015					
Covered-employee payroll	\$ 42,442	\$ 40,774	\$ 39,554	\$ 38,065						
Contributions as a percentage of covered-employee payroll	25.6%	24.9%	24.9%	24.9%						

\* Excess is due to Federal Grants

**Components of Weymouth’s Pension Expense for the Fiscal Year Ended June 30, 2018 [GASB 68, Paragraph 71]**

NOTE*	Description	Fiscal 2018
A	Service Cost	\$ 5,403,712
A, B	Interest on the Total Pension Liability	21,739,971
C	Differences between Expected and Actual Experience	162,698
D	Changes of Assumptions	661,388
D	Changes to Benefit Provisions	0
A	Employee Contributions	(4,072,092)
E	Projected Earnings on Pension Plan Investments	(13,410,742)
F	Differences between Projected and Actual Earnings on Plan Investments	364,794
A	Pension Plan Administrative Expense	395,845
A	Other Changes in Fiduciary Net Position	<u>0</u>
	<b>Total Pension Expense</b>	\$ 11,245,574

\* Notes shown on following page. Amounts are based on the following dates:

- Valuation date: January 1 ; Measurement date: December 31 ; Reporting date: following June 30

**CHANGES IN METHODS, ASSUMPTIONS, AND PLAN PROVISIONS**

The assumptions and methods used to generate these exhibits are consistent with those used in the January 1, 2016 actuarial valuation of Weymouth performed by Stone Consulting, Inc. unless otherwise noted.

**RESULTS BY EMPLOYER**

Exhibits are provided beginning on page 14 which provide individual results for the various employers that make up the Weymouth Retirement System. Pension expense, as well as deferred inflows and outflows of resources and any excess contribution generated by Federal Grants, have been allocated to the various employers in the same manner as the FY2018 appropriation. However, per GASB 68, the change in proportionality from FY2017 to FY2018 if the individual employers’ NPL and deferred inflows and outflows need to be allocated to the individual employers. This is calculated on page 16. These amounts are then recognized over the average working lifetime, which is 5.5 years.

NOTES

- A. See the RSI schedule of changes to the net pension liability, on page 1.
- B. Events that impact the total pension liability are assumed to happen evenly throughout the period. In addition, the amount of interest on the total pension liability is calculated using an interest rate equal to the discount rate that was used to determine the service cost. The amount is determined as follows:

Description	Amount for Period (a)	Portion of Period (b)	Interest Rate (c)	Interest on the Total Pension Liability (a) x (b) x (c)
Beginning total pension liability	\$ 284,403,536	100%	7.75%	\$ 22,041,274
Service cost	5,403,712	100%	7.75%	418,788
Benefit payments	(18,582,994)	50%	7.75%	(720,091)
<b>Total interest on the net pension liability</b>				<b>\$ 21,739,971</b>

- C. Differences between expected and actual experience recognized in the current period in accordance with paragraph 71a of Statement 68. For the detailed calculation of this amount, see the schedules on page 11.
- D. Assumption and plan provision changes recognized in pension expense in the current period in accordance with paragraph 71a of Statement 68. For detailed calculation of these amounts, see the schedule on page 11.
- E. Changes in the amounts invested are assumed to occur evenly throughout the period. In addition, the amount of projected earnings on pension plan investments is calculated using the assumed rate of return on pension plan investments as of the beginning of the period. The amount is determined as follows:

Description	Amount for Period (a)	Portion of Period (b)	Projected Rate of Return (c)	Projected Earnings (a) x (b) x (c)
Beginning plan fiduciary net position	\$ 175,063,322	100%	7.75%	\$ 13,567,407
Employer contributions	10,863,755	50%	7.75%	420,971
Employee contributions	4,072,092	50%	7.75%	157,794
Benefit payments, including refunds of employee contributions	(18,582,994)	50%	7.75%	(720,091)
Administrative expense and other	(395,845)	50%	7.75%	(15,339)
<b>Total projected earnings</b>				<b>\$ 13,410,742</b>

- F. Differences between projected and actual earnings recognized in the current period in accordance with paragraph 71b of Statement 68. For detailed calculation of this amount, see the schedule on page 11.

**Increase / (Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences between Expected and Actual Experience**

Year	Differences between actual and expected experience	Recognition period (years)	2015	2016	2017	2018	2019	2020	2021	2022	2023
2015	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2016	\$ -	5.5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2017	\$ 894,840	5.5	\$ -	\$ -	\$ 162,698	\$ 162,698	\$ 162,698	\$ 162,698	\$ 162,698	\$ 81,349	\$ -
2018	\$ -	5.5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net increase (decrease) in pension expense			\$ -	\$ -	\$ 162,698	\$ 162,698	\$ 162,698	\$ 162,698	\$ 162,698	\$ 81,349	\$ -

**Increase / (Decrease) in Pension Expense Arising from the Recognition of the Effects of Changes of Assumptions**

Year	Change of assumptions	Recognition period (years)	2015	2016	2017	2018	2019	2020	2021	2022	2023
2015	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2016	\$ -	5.5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2017	\$ 3,637,632	5.5	\$ -	\$ -	\$ 661,388	\$ 661,388	\$ 661,388	\$ 661,388	\$ 661,388	\$ 330,694	\$ -
2018	\$ -	5.5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net increase (decrease) in pension expense			\$ -	\$ -	\$ 661,388	\$ 661,388	\$ 661,388	\$ 661,388	\$ 661,388	\$ 330,694	\$ -

**Increase / (Decrease) in Pension Expense Arising from the Recognition of Differences between Expected and Actual Earnings on Pension Plan Investments**

Year	Differences between projected and actual earnings on pension plan investments	Recognition period (years)	2015	2016	2017	2018	2019	2020	2021	2022
2015	\$ 1,660,864	5	\$ 332,173	\$ 332,173	\$ 332,173	\$ 332,173	\$ 332,173	\$ -	\$ -	\$ -
2016	\$ 13,256,509	5	\$ -	\$ 2,651,302	\$ 2,651,302	\$ 2,651,302	\$ 2,651,302	\$ 2,651,302	\$ -	\$ -
2017	\$ 1,762,238	5	\$ -	\$ -	\$ 352,448	\$ 352,448	\$ 352,448	\$ 352,448	\$ 352,448	\$ -
2018	\$ (14,855,642)	5	\$ -	\$ -	\$ -	\$ (2,971,128)	\$ (2,971,128)	\$ (2,971,128)	\$ (2,971,128)	\$ (2,971,128)
Net increase (decrease) in pension expense			\$ 332,173	\$ 2,983,474	\$ 3,335,922	\$ 364,794	\$ 364,794	\$ 32,621	\$ (2,618,681)	\$ (2,971,128)

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

Year	Experience Losses (a)	Experience Gains (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	BALANCES AT JUNE 30, 2018	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2016	\$ -	\$ -	\$ -	\$ -	\$ -
2017	\$ 894,840	\$ -	\$ 325,397	\$ 569,444	\$ -
2018	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>				\$ 569,444	\$ -

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

Year	Increases in the Total Pension Liability (a)	Decreases in the Total Pension Liability (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	BALANCES AT JUNE 30, 2018	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2016	\$ -	\$ -	\$ -	\$ -	\$ -
2017	\$ 3,637,632	\$ -	\$ 1,322,775	\$ 2,314,856	\$ -
2018	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>				\$ 2,314,856	\$ -

### Deferred Outflows and Deferred Inflows of Resources Arising from Differences between Expected and Actual Earnings on Pension Plan Investments

Year	Investment Earnings Less than Projected (a)	Investment Earnings More than Projected (b)	Amounts Recognized in Pension Expense through June 30, 2018 (c)	BALANCES AT JUNE 30, 2018	
				Deferred Outflows of Resources (a) - (c)	Deferred Inflows of Resources (b) - (c)
2015	\$ 1,660,864	\$ -	\$ 1,328,691	\$ 332,173	\$ -
2016	\$ 13,256,509	\$ -	\$ 7,953,905	\$ 5,302,603	\$ -
2017	\$ 1,762,238	\$ -	\$ 704,895	\$ 1,057,343	\$ -
2018	\$ -	\$ (14,855,642)	\$ (2,971,128)	\$ -	\$ (11,884,513)
<b>TOTAL</b>				\$ 6,692,119	\$ (11,884,513)
			<b>NET TOTAL</b>		\$ (5,192,395)

**GASB Statement No. 67, Paragraph 30 b. (4)**  
**Money-Weighed Rate of Return, 2017**

NET INVESTMENT AMOUNTS					
	Beginning of month	Middle of Month	End of Month	Periods Invested**	Investment with Interest
Starting Value* (12/31/2016)	\$ 174,845,403.03			12	\$ 203,562,520.84
<u>Cash Flows:</u>					
January	1,654.00	379,468.20	-1,707,437.72	11	(1,521,911.39)
February	0.00	263,493.63	-1,582,130.99	10	(1,494,891.73)
March	1,443.00	504,283.19	-1,576,944.96	9	(1,197,021.35)
April	0.00	289,896.85	-1,549,314.05	8	(1,391,755.00)
May	0.00	313,578.11	-1,709,548.25	7	(1,523,284.47)
June	0.00	471,079.99	-1,757,630.10	6	(1,384,957.77)
July	10,571,905.00	468,991.54	-1,595,075.30	5	10,210,526.20
August	144,377.00	461,082.74	-1,599,981.82	4	(1,041,214.09)
September	0.00	264,284.51	-1,659,343.60	3	(1,447,372.18)
October	0.00	348,353.60	-1,676,165.84	2	(1,359,624.85)
November	0.00	500,808.40	-1,568,281.39	1	(1,077,862.77)
December	0.00	467,172.41	-1,770,637.97	0	(1,300,496.02)
Ending Value* (12/31/2017)	\$199,032,655.42			Sum:	\$ 199,032,655.42

\* Value shown does not include any payables or receiveables, except those related to investments.

\*\* Middle of period cash flows are given an additional half period of interest, and beginning of period cash flows are given an additional full period.

<b>Return Rate:</b>	16.42%
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## Results by Employer

Employer	Covered Payroll*	Proportionate Share of NPL**	Proportionate share of NPL as a percentage of covered payroll*	Proportionate share of NPL Discount Sensitivity	
				1% Increase (8.75%)	1% Decrease (6.75%)
Town of Weymouth	\$ 28,650,447	\$ 65,048,076	227.0%	\$ 49,710,453	\$ 87,093,956
Weymouth School Department	\$ 11,839,044	\$ 25,917,923	218.9%	\$ 19,589,704	\$ 35,013,932
Weymouth Housing Authority	\$ 922,426	\$ 2,446,579	265.2%	\$ 1,871,084	\$ 3,273,781
Wey.-Bra. Recreational	\$ 183,037	\$ 264,935	144.7%	\$ 200,247	\$ 357,915
<b>TOTAL</b>	\$ 41,594,955	\$ 93,677,512	225.2%	\$ 71,371,488	\$ 125,739,584

Employer	Actuarially determined contribution FY2018	Contributions made FY 2018	Contribution deficiency (excess)	Contributions as a percentage of covered payroll***
Town of Weymouth	\$ 7,536,301	\$ (7,538,430)	\$ (2,129)	26.3%
Weymouth School Department	\$ 3,004,888	\$ (3,005,767)	\$ (879)	25.4%
Weymouth Housing Authority	\$ 288,753	\$ (288,833)	\$ (80)	31.3%
Wey.-Bra. Recreational	\$ 30,716	\$ (30,725)	\$ (9)	16.8%
<b>TOTAL</b>	\$ 10,860,658	\$ (10,863,755)	\$ (3,097)	26.1%

Employer	Proportion	Proportionate Share of Pension Expense	Proportion changes and differences between employer contributions and proportionate share recognized as expense	Total Pension Expense
Town of Weymouth	68.76%	\$ 7,808,736	\$ 132,417	\$ 7,941,152
Weymouth School Department	28.37%	\$ 3,111,333	\$ (128,424)	\$ 2,982,909
Weymouth Housing Authority	2.58%	\$ 293,701	\$ (794)	\$ 292,907
Wey.-Bra. Recreational	0.29%	\$ 31,804	\$ (3,199)	\$ 28,605
<b>TOTAL</b>	100.00%	\$ 11,245,574		

\* Covered Payroll is the projected amount for the 2017 calendar year based on employee data as of December 31, 2015

\*\* ERI liability used in proportionate share of NPL is \$2,231,143 for the Town and \$89,574 for Housing

\*\*\* Here the Covered Payroll figure is projected for Fiscal Year 2018, based on employee data as of December 31, 2015

**Deferred Outflows of Resources by Employer\***

Employer	Differences between expected and actual experience	Changes of assumptions	Net difference between projected and actual earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Employer contributions subsequent to the measurement date	Total Deferred Outflows of Resources
Town of Weymouth	\$ 395,412	\$ 1,607,397	\$ -	\$ 855,490	\$ -	\$ 2,858,299
Weymouth School Department	\$ 157,549	\$ 640,455	\$ -	\$ 606,685	\$ -	\$ 1,404,690
Weymouth Housing Authority	\$ 14,872	\$ 60,457	\$ -	\$ 118,108	\$ -	\$ 193,437
Wey.-Bra. Recreational	\$ 1,610	\$ 6,547	\$ -	\$ 805	\$ -	\$ 8,962
<b>TOTAL</b>	\$ 569,444	\$ 2,314,856	\$ -	\$ 1,581,088	\$ -	\$ 4,465,388

**Deferred Inflows of Resources by Employer\***

Employer	Differences between expected and actual experience	Changes of assumptions	Net difference between projected and actual earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Employer contributions subsequent to the measurement date	Total Deferred Inflows of Resources
Town of Weymouth	\$ -	\$ -	\$ 3,605,511	\$ 546,297	N/A	\$ 4,151,808
Weymouth School Department	\$ -	\$ -	\$ 1,436,589	\$ 937,463	N/A	\$ 2,374,052
Weymouth Housing Authority	\$ -	\$ -	\$ 135,610	\$ 85,083	N/A	\$ 220,693
Wey.-Bra. Recreational	\$ -	\$ -	\$ 14,685	\$ 12,245	N/A	\$ 26,930
<b>TOTAL</b>	\$ -	\$ -	\$ 5,192,395	\$ 1,581,088	N/A	\$ 6,773,483

**Recognition of Deferred Outflows and Deferred Inflows**

Employer	AMOUNT TO BE RECOGNIZED FOR THE YEAR ENDING DECEMBER 31,					
	2018	2019	2020	2021	2022	Thereafter
Town of Weymouth	\$ 957,954	\$ 727,299	\$ (1,224,411)	\$ (1,787,910)	\$ 33,559	\$ -
Weymouth School Department	\$ 200,505	\$ 108,603	\$ (519,820)	\$ (712,885)	\$ (45,764)	\$ -
Weymouth Housing Authority	\$ 30,256	\$ 21,581	\$ (42,885)	\$ (49,331)	\$ 13,123	\$ -
Wey.-Bra. Recreational	\$ 163	\$ (776)	\$ (7,478)	\$ (8,959)	\$ (918)	\$ -
<b>TOTAL</b>	\$ 1,188,879	\$ 856,707	\$ (1,794,595)	\$ (2,559,085)	\$ 0	\$ -

\* Deferred Outflows and Inflows due to experience, assumptions, and investment return are allocated to each employer according to their proportion of the NPL



**Effects of Changes in Proportion on Employers' Proportionate Share of NPL, and Deferred Inflows and Deferred Outflows of Resources**

Employer	Proportion Change			FY2018 Contribution		
	Prior Proportionate Share of Prior NPL net of Deferrals	Share of Prior NPL based on Current Proportion of NPL	Difference (A)	Proportionate Share of Contribution based on Share of NPL	Amount Paid	Difference (B)
Town of Weymouth	\$ 66,011,323	\$ 66,385,649	\$ 374,325	\$ 7,543,607	\$ 7,538,430	\$ (5,177)
Weymouth School Department	\$ 26,954,345	\$ 26,450,869	\$ (503,476)	\$ 3,005,694	\$ 3,005,767	\$ 72
Weymouth Housing Authority	\$ 2,357,637	\$ 2,496,888	\$ 139,251	\$ 283,729	\$ 288,833	\$ 5,104
Wey.-Bra. Recreational	\$ 280,482	\$ 270,383	\$ (10,100)	\$ 30,724	\$ 30,725	\$ 1
<b>TOTAL</b>	\$ 95,603,788	\$ 95,603,788	\$ -	\$ 10,863,755	\$ 10,863,755	\$ -

Employer	Total Proportion Change (A) + (B)	Recognized as Pension Expense*	Deferred for later recognition
Town of Weymouth	\$ 369,149	\$ 67,118	\$ 302,031
Weymouth School Department	\$ (503,404)	\$ (91,528)	\$ (411,876)
Weymouth Housing Authority	\$ 144,354	\$ 26,246	\$ 118,108
Wey.-Bra. Recreational	\$ (10,099)	\$ (1,836)	\$ (8,263)
<b>TOTAL</b>	\$ -	\$ -	\$ -

\* Based on an average remaining service life of 5.5 years.