

# Town of Johnston, Rhode Island Police Pension System

**Actuarial Valuation and Review as of June 30, 2020**



This report has been prepared at the request of the Board of Trustees to assist in administering the Pension System. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Board of Trustees and may only be provided to other parties in its entirety, unless expressly authorized by Segal. The measurements shown in this actuarial valuation may not be applicable for other purposes.

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November 6, 2020

Joseph Chiodo CPA, MBA  
Finance Director  
Town of Johnston, Rhode Island Police Pension System  
1385 Hartford Avenue  
Johnston, Rhode Island 02919

Dear Board Members:


We are pleased to submit this Actuarial Valuation and Review as of June 30, 2020. It summarizes the actuarial data used in the valuation, analyzes the preceding year's experience, and establishes the funding requirements for the fiscal year ending June 30, 2022.


This report was prepared in accordance with generally accepted actuarial principles and practices at the request of the Board to assist in administering Pension System. The census information on which our calculations were based was prepared by the Town of Johnston and the financial information was retained from the Town of Johnston trial balance and journal entries for the fiscal year ended June 30, 2020. That assistance is gratefully acknowledged.

The actuarial calculations were directed under our supervision. We are members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of our knowledge, the information supplied in this actuarial valuation is complete and accurate. Further, in our opinion, the assumptions recommended by Segal in our experience study for the period July 1, 2014 to June 30, 2017, dated November 30, 2017, as approved by the Town are reasonably related to the experience of and the expectations for the Pension System.

We look forward to reviewing this report at your next meeting and to answering any questions.

Sincerely,  
Segal

  
\_\_\_\_\_  
Jeanette R. Cooper, FSA, FCA, MAAA, EA  
Vice President and Consulting Actuary

  
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# Actuarial Valuation Summary

## Purpose and basis

This report was prepared by Segal to present a valuation of the Town of Johnston, Rhode Island Police Pension System as of June 30, 2020. The valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits. The measurements shown in this actuarial valuation may not be applicable for other purposes. In particular, the measures herein are not necessarily appropriate for assessing the sufficiency of Pension System assets to cover the estimated cost of settling the Pension System's benefit obligations. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements; and changes in plan provisions or applicable law.

Certain disclosure information required by GASB Statements No 67 and 68 as of June 30, 2020 for the Pension System is provided in a separate report.

The contribution requirements presented in this report are based on:

- The benefit provisions of the Pension System, as administered by the Town;
- The characteristics of covered active participants, retired participants and beneficiaries as of June 30, 2020, provided by the Town;
- The assets of the Pension System as of June 30, 2020, provided by the Town;
- Economic assumptions regarding future salary increases and investment earnings;
- Other actuarial assumptions regarding employee terminations, retirement, death, etc. and
- The funding policy adopted by the Town.

## Section 1: Actuarial Valuation Summary

### Significant issues

1. Segal Consulting (“Segal”) strongly recommends an actuarial funding method that targets 100% funding of the actuarial accrued liability. Generally, this implies payments that are ultimately at least enough to cover normal cost, interest on the unfunded actuarial accrued liability and the principal balance. The funding policy adopted by the Town as outlined in the 2017 settlement agreement meets this standard.
2. Under the settlement agreement, the employer contribution for the fiscal year ending June 30, 2017 could not be less than \$4,575,446, with this amount increasing 3.00% per year. The contribution for the fiscal year ending June 30, 2022 is \$5,304,196, an increase of \$154,491 from last year. The change is due to the required 3.0% increase outlined in the settlement agreement. Actual contributions made during the fiscal year ending June 30, 2020 were \$4,999,713. In the prior fiscal year, actual contributions were \$4,854,090.
3. Beginning with the fiscal year ending June 30, 2019, the actuarially determined contribution amount was changed to match the required contributions under the settlement agreement. Prior to this, the actuarially determined contribution was based on a level dollar closed period. The Town of Johnston has paid 100% of the actuarially determined contribution for the fiscal year ending June 30, 2020.
4. The actuarial value of assets for the Pension System is equal to market value.
5. The effective amortization period for the unfunded actuarial accrued liability is 23.56 years, a decrease from 26.00 years in the prior valuation.
6. The unfunded actuarial accrued liability is \$56,821,720, which is an increase of \$917,260 since the prior valuation. The funded ratio (the ratio of the actuarial value of assets to actuarial accrued liability) is 28.58%, compared to the prior year funded ratio of 28.14%. This ratio is one measure of funding status, and its history is a measure of funding progress. These measurements are not necessarily appropriate for assessing the sufficiency of the System’s assets to cover the estimated cost of settling the Pension System’s benefit obligation or the need for or the amount of future contributions.
7. The actuarial loss from investment and other experience is \$654,671, or 0.8% of actuarial accrued liability.
8. The rate of return on the actuarial and market value of assets was -0.09% for the July 1, 2019 to June 30, 2020 plan year. This resulted in an actuarial investment loss of \$1,638,224, or 2.1% of the actuarial accrued liability.
9. The net experience gain from sources other than investment experience was 1.3% of the actuarial accrued liability. This gain was primarily due to retirement, salary and disability experience different than expected.
10. There were no changes in actuarial assumptions or plan provisions since the last valuation.

## Section 1: Actuarial Valuation Summary

11. This report constitutes an actuarial valuation for the purpose of determining the actuarially determined contribution under the Pension System's funding policy and measuring the progress of that funding policy. The Net Pension Liability (NPL) and Pension Expense under Governmental Accounting Standards Board (GASB) Statements No. 67 and No. 68, for inclusion in the plan and employer's financial statements as of June 30, 2020, were provided in a separate report.
12. This actuarial report as of June 30, 2020 is based on financial and demographic data as of that date. Changes subsequent to that date are not reflected and will affect future actuarial costs of the plan.
13. Since the actuarial valuation results are dependent on a given set of assumptions, there is a risk that emerging results may differ significantly as actual experience proves to be different from the assumptions. We have included a discussion of various risks that may affect the Plan in Section 2.
14. It is important to note that this actuarial valuation is based on plan assets as June 30, 2020. Due to the COVID-19 pandemic, market conditions have changed significantly since the valuation date. The Plan's actuarial status does not reflect short-term fluctuations of the market, but rather is based on the market values on the last day of the Plan Year. While it is impossible to determine how the market will perform over the next several months, and how that will affect the results of next year's valuation, Segal is available to prepare projections of potential outcomes upon request.

## Section 1: Actuarial Valuation Summary

### Summary of key valuation results

		2020	2019
<b>Contributions for plan year beginning July 1<sup>1</sup>:</b>	<ul style="list-style-type: none"> <li>Actuarially determined employer contributions</li> </ul>	\$5,304,196	\$5,149,705
<b>Actuarial accrued liability for plan year beginning July 1:</b>	<ul style="list-style-type: none"> <li>Retired participants and beneficiaries</li> <li>Active participants</li> <li>Total</li> <li>Normal cost including administrative expenses for plan year beginning July 1</li> </ul>	\$55,078,718 24,483,003 79,561,721 1,465,935	\$54,813,138 22,982,824 77,795,962 1,590,337
<b>Assets for plan year beginning July 1:</b>	<ul style="list-style-type: none"> <li>Market value of assets (MVA)</li> <li>Actuarial value of assets (AVA)</li> <li>Actuarial value of assets as a percentage of market value of assets</li> </ul>	\$22,740,001 22,740,001 100.00%	\$21,891,502 21,891,502 100.00%
<b>Funded status for plan year beginning July 1:</b>	<ul style="list-style-type: none"> <li>Unfunded actuarial accrued liability on market value of assets</li> <li>Funded percentage on MVA basis</li> <li>Unfunded actuarial accrued liability on actuarial value of assets</li> <li>Funded percentage on AVA basis</li> <li>Effective Amortization period on an AVA basis</li> </ul>	\$56,821,720 28.58% \$56,821,720 28.58% 23.56 years	\$55,904,460 28.14% \$55,904,460 28.14% 26.00 years
<b>Key assumptions:</b>	<ul style="list-style-type: none"> <li>Net investment return</li> <li>Inflation rate</li> <li>Payroll increase</li> </ul>	7.25% 2.50% 3.75%	7.25% 2.50% 3.75%
<b>Demographic data for plan year beginning July 1:</b>	<ul style="list-style-type: none"> <li>Number of retired participants and beneficiaries</li> <li>Number of active participants</li> <li>Total payroll</li> <li>Average payroll</li> </ul>	105 46 \$4,579,776 99,560	105 47 \$4,630,718 98,526

<sup>1</sup>The amounts shown in the 2020 and 2019 columns are payable for the fiscal years ending in 2022 and 2021, respectively.

## Section 1: Actuarial Valuation Summary

### Important information about actuarial valuations

An actuarial valuation is a budgeting tool with respect to the financing of future projected obligations of a pension plan. It is an estimated forecast – the actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.

In order to prepare a valuation, Segal relies on a number of input items. These include:

<b>Plan of benefits</b>	Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. Even where they appear precise, outside factors may change how they operate. It is important to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan summary included in our report to confirm that Segal has correctly interpreted the plan of benefits.
<b>Participant data</b>	An actuarial valuation for a plan is based on data provided to the actuary by the Town. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
<b>Assets</b>	The valuation is based on the market value of assets as of the valuation date, as provided by the Town.
<b>Actuarial assumptions</b>	In preparing an actuarial valuation, Segal projects the benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. This projection requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of each participant for each year. In addition, the benefits projected to be paid for each of those events in each future year reflect actuarial assumptions as to salary increases and cost-of-living adjustments. The projected benefits are then discounted to a present value, based on the assumed rate of return that is expected to be achieved on the plan's assets. There is a reasonable range for each assumption used in the projection and the results may vary materially based on which assumptions are selected. It is important for any user of an actuarial valuation to understand this concept. Actuarial assumptions are periodically reviewed to ensure that future valuations reflect emerging plan experience. While future changes in actuarial assumptions may have a significant impact on the reported results that does not mean that the previous assumptions were unreasonable.



## Section 1: Actuarial Valuation Summary

The user of Segal's actuarial valuation (or other actuarial calculations) should keep the following in mind:

The actuarial valuation is prepared at the request of the Town. Segal is not responsible for the use or misuse of its report, particularly by any other party.

An actuarial valuation is a measurement of the plan's assets and liabilities at a specific date. Accordingly, except where otherwise noted, Segal did not perform an analysis of the potential range of future financial measures. The actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.

Actuarial results in this report are not rounded, but that does not imply precision.

If the Town is aware of any event or trend that was not considered in this valuation that may materially change the results of the valuation, Segal should be advised, so that we can evaluate it.

Segal does not provide investment, legal, accounting, or tax advice. Segal's valuation is based on our understanding of applicable guidance in these areas and of the plan's provisions, but they may be subject to alternative interpretations. The Town should look to their other advisors for expertise in these areas.

As Segal has no discretionary authority with respect to the management or assets of the Pension System, it is not a fiduciary in its capacity as actuaries and consultants with respect to the Pension System.

# Actuarial Valuation Results

## Participant data

The Actuarial Valuation and Review considers the number and demographic characteristics of covered participants, including active participants, retired participants and beneficiaries.

This section presents a summary of significant statistical data on these participant groups. The plan has been closed to new entrants since July 1, 2010 as shown in the declining count of active participants.

More detailed information for this valuation year and the preceding valuation can be found in *Section 3, Exhibits A, B, and C.*

### Participant Population: 2011 – 2020

Year Ended June 30	Active Participants	Retired Participants and Beneficiaries <sup>1</sup>	Ratio of Non-Actives to Actives
2011	70	92	1.31
2012	68	92	1.35
2013	60	96	1.60
2014	55	99	1.80
2015	55	98	1.78
2016	55	97	1.76
2017	52	101	1.94
2018	49	102	2.08
2019	47	105	2.23
2020	46	105	2.28

<sup>1</sup>Includes disabled retirees and QDROs.

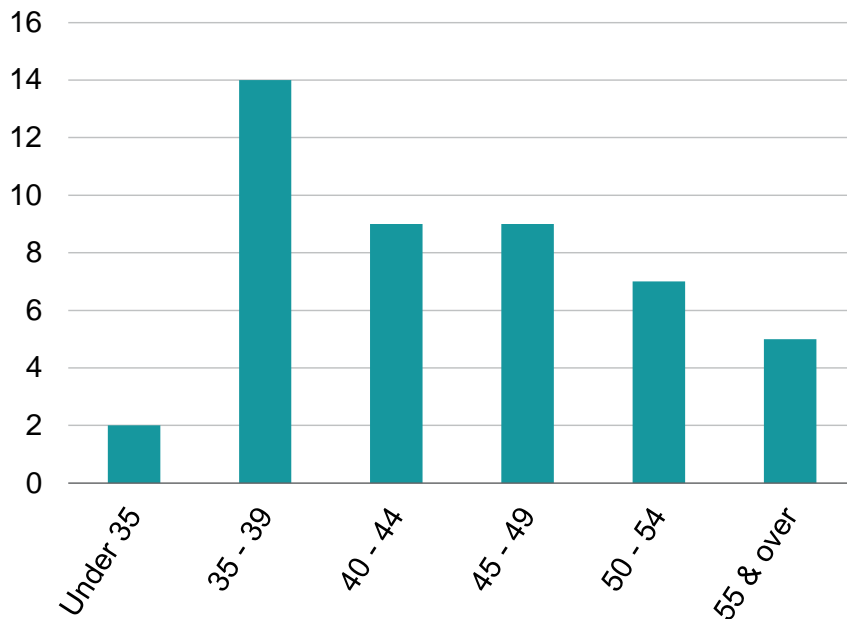
## Section 2: Actuarial Valuation Results

### Active participants

Plan costs are affected by the age, years of service and payroll of active participants. In this year's valuation, there were 46 active participants with an average age of 45.5, average years of service of 16.2 years and average payroll of \$99,560. The 47 active participants in the prior valuation had an average age of 44.5, average service of 15.3 years and average payroll of \$98,526.

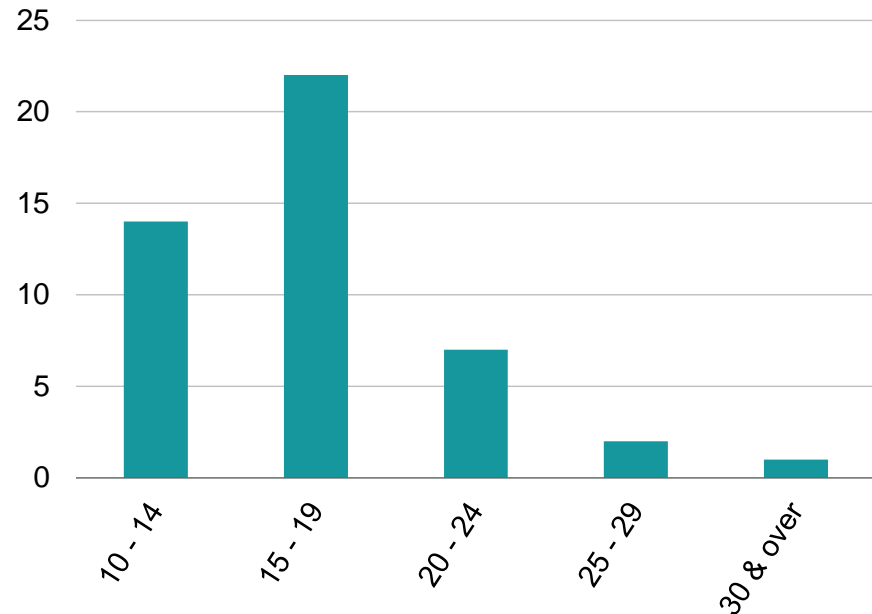
Distribution of Active Participants as of June 30, 2020

Actives by Age



Average age	45.5
Prior year average age	<u>44.5</u>
Difference	1.0

Actives by Years of Service



Average years of service	16.2
Prior year average years of service	<u>15.3</u>
Difference	0.9

### Inactive participants

In this year's valuation, there were no participants with a vested right to a deferred or immediate vested benefit.

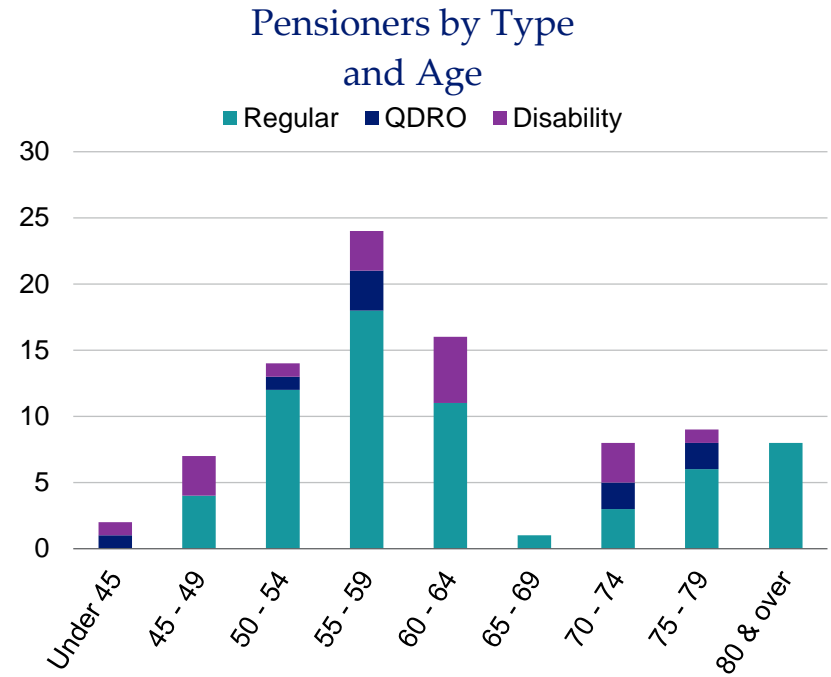
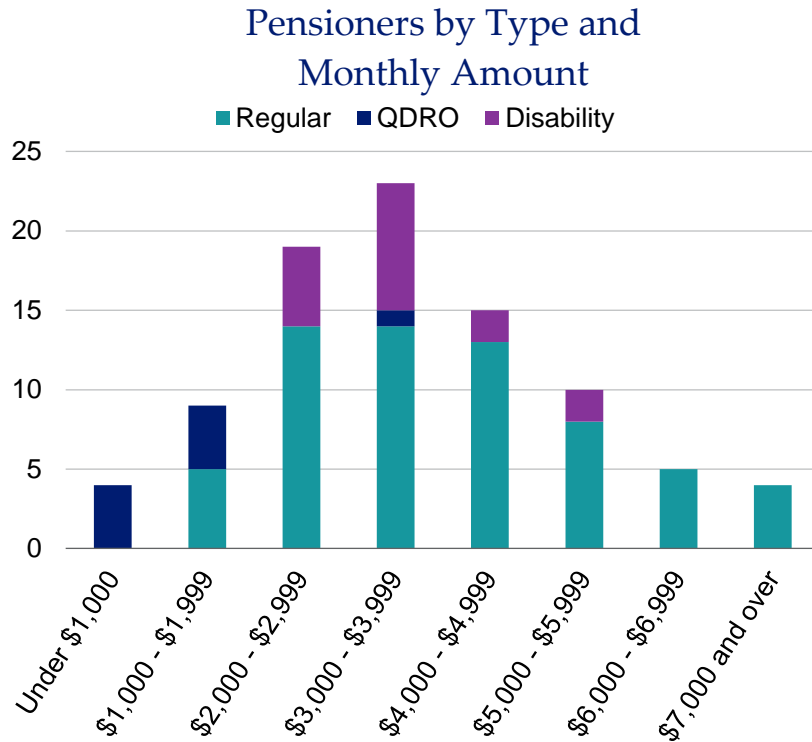
## Section 2: Actuarial Valuation Results

### Retired participants and beneficiaries

As of June 30, 2020, 89 retired participants (including nine QDROs) and 16 beneficiaries were receiving total monthly benefits of \$369,491. For comparison, in the previous valuation, there were 89 retired participants (including nine QDROs) and 16 beneficiaries receiving monthly benefits of \$367,060.

As of June 30, 2020, the average monthly benefit for retired participants is \$3,745, compared to \$3,717 in the previous valuation. The average age for retired participants is 61.7 in the current valuation, compared with 61.6 in the prior valuation.

Distribution of Pensioners as of June 30, 2020



## Section 2: Actuarial Valuation Results

### Historical plan population

The chart below demonstrates the decrease of the active population over the last ten years. The chart also shows the growth among the retired population over the same time period.

#### Participant Data Statistics: 2011 – 2020

Year Ended June 30	Active Participants			Retired Participants and Beneficiaries		
	Count	Average Age	Average Service	Count	Average Age	Average Monthly Amount
2011	70	38.7	10.3	92	59.4	\$2,802
2012	68	39.5	10.8	92	59.7	3,015
2013	60	39.9	10.9	96	60.0	2,948
2014	55	40.3	11.1	99	59.7	3,284
2015	55	41.3	12.1	98	56.0	3,348
2016	55	42.3	13.1	97	61.1	3,423
2017	52	42.9	13.8	101	61.6	3,449
2018	49	43.8	14.5	102	62.3	3,537
2019	47	44.5	15.3	105	63.2	3,496
2020	46	45.5	16.2	105	64.4	3,519

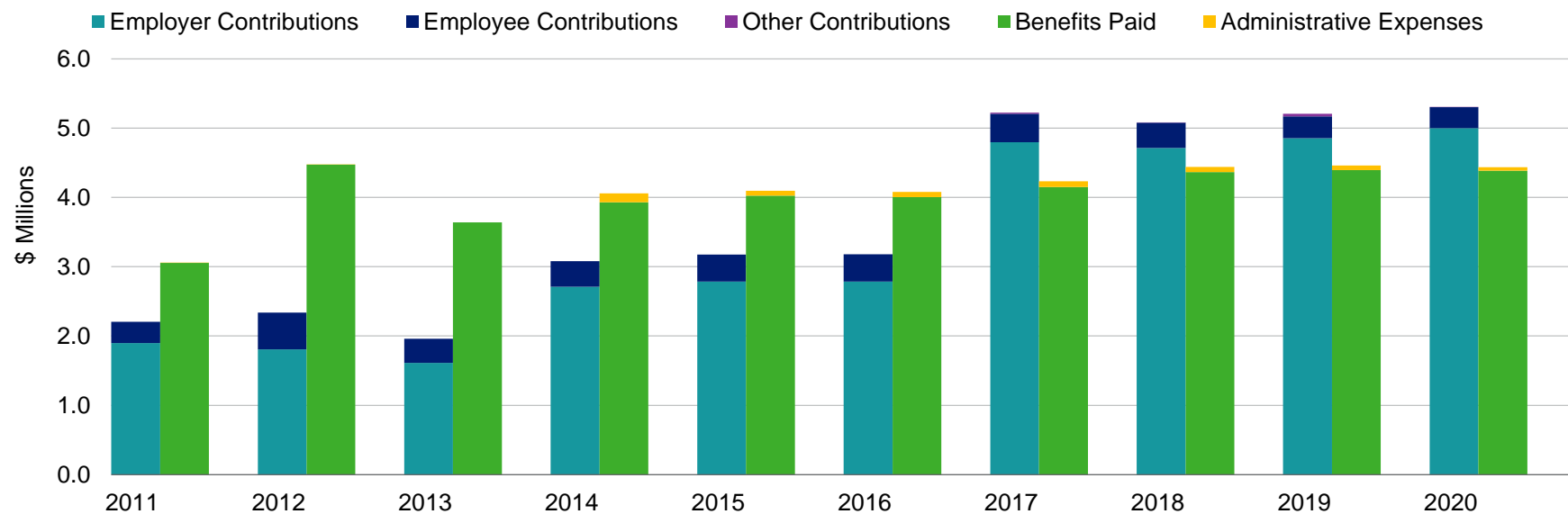
## Section 2: Actuarial Valuation Results

### Financial information

Retirement plan funding anticipates that, over the long term, both contributions (less administrative expenses) and investment earnings (less investment fees) will be needed to cover benefit payments. Retirement plan assets change as a result of the net impact of these income and expense components.

Additional financial information, including a summary of transactions for the valuation year, is presented in *Section 3, Exhibits D and E*.

Comparison of Contributions Made with Benefits and Expenses Paid  
for Years Ended June 30, 2011 – 2020



## Section 2: Actuarial Valuation Results

It is desirable to have level and predictable plan costs from one year to the next. However, the Town has approved an asset valuation method that uses market value. Under this valuation method, the full value of market fluctuation is recognized in a single year and, as a result, the asset value and the plan costs are relatively volatile.

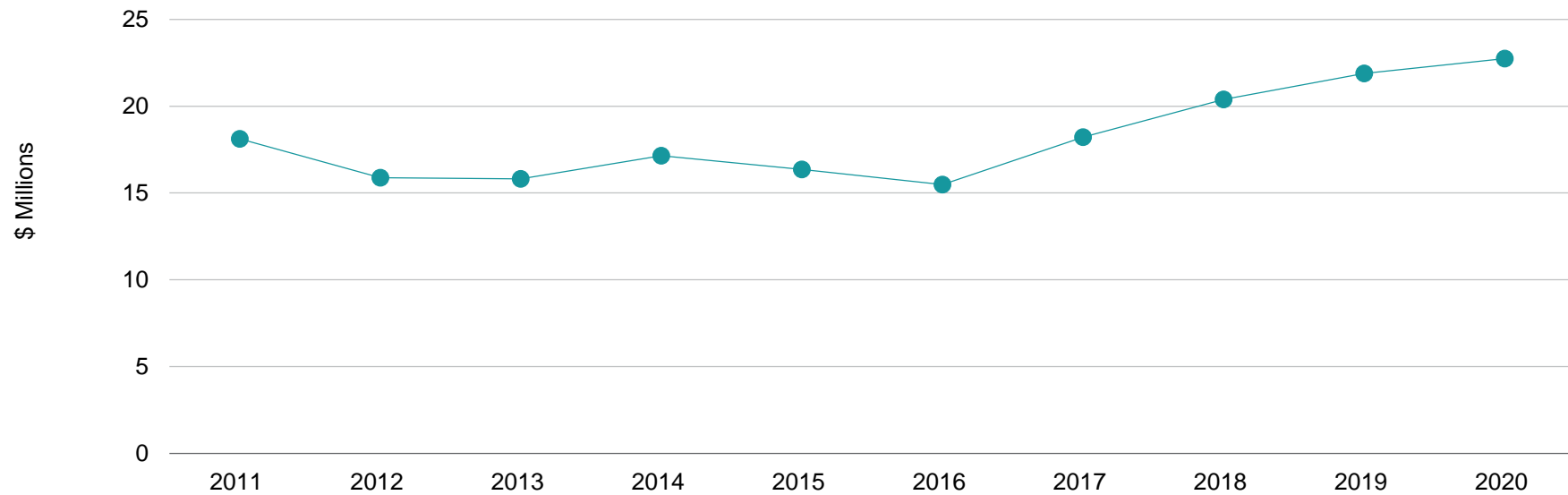
### Determination of Actuarial Value of Assets for Year Ended June 30, 2020

Actuarial value of assets at beginning of year (equal to market value)	\$21,891,502
Employer contributions	4,999,713
Employee contributions	302,388
Purchase of service	0
Other Income	1,754
Net investment income	-19,621
Benefit payments	-4,385,639
Administrative expense	<u>-50,096</u>
Actuarial value of assets at end of year (equal to market value)	\$22,740,001

## Section 2: Actuarial Valuation Results

The actuarial value (equal to the market value of assets) is a representation of the Pension System's financial status. The actuarial asset value is significant because the Pension System's liabilities are compared to these assets to determine what portion, if any, remains unfunded. Amortization of the unfunded actuarial accrued liability is an important element in determining the contribution requirement.

Actuarial Value of Assets (equal to Market Value of Assets) as of June 30, 2011 – 2020





## Section 2: Actuarial Valuation Results

### Actuarial experience

To calculate any actuarially determined contribution, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year actual experience is measured against the assumptions. If overall experience is more favorable than anticipated (an actuarial gain), any contribution requirement will decrease from the previous year. On the other hand, any contribution requirement will increase if overall actuarial experience is less favorable than expected (an actuarial loss).

Taking account of experience gains or losses in one year without making a change in assumptions reflects the belief that the single year's experience was a short-term development and that, over the long term, experience will return to the original assumptions. For contribution requirements to remain stable, assumptions should approximate experience.

If assumptions are changed, the contribution requirement is adjusted to take into account a change in experience anticipated for all future years.

The total loss is \$654,671, which includes \$1,638,224 from investment losses and \$983,553 in gains from all other sources. The net experience variation from individual sources other than investments was 1.3% of the actuarial accrued liability. A discussion of the major components of the actuarial experience is on the following pages.

#### Actuarial Experience for Year Ended June 30, 2020

<b>1</b>	Net loss from investments <sup>1</sup>	-\$1,638,224
<b>2</b>	Net gain from administrative expenses	41,995
<b>3</b>	Net gain from other experience <sup>2</sup>	941,558
<b>4</b>	Net experience loss: <b>1 + 2 + 3</b>	-\$654,671

<sup>1</sup>Details on next page.

<sup>2</sup>Details on page 24.

## Section 2: Actuarial Valuation Results

### Investment experience

A major component of projected asset growth is the assumed rate of return. The assumed return should represent the expected long-term rate of return, based on the Town of Johnston's investment policy. The rate of return on both an actuarial and market value of assets was -0.09% for the year ended June 30, 2020.

For valuation purposes, the assumed rate of return on the actuarial value of assets is 7.25%. Since the actual return for the year was less than the assumed return, the Pension System experienced an actuarial loss during the year ended June 30, 2020 with regard to its investments.

#### Investment Experience

	Year Ended June 30, 2020	Year Ended June 30, 2019
	Actuarial and Market Value	Actuarial and Market Value
<b>1</b> Net investment income	-\$19,621	\$763,639
<b>2</b> Average value of assets	22,325,562	20,755,247
<b>3</b> Rate of return: <b>1 ÷ 2</b>	-0.09%	3.68%
<b>4</b> Assumed rate of return	7.25%	7.25%
<b>5</b> Expected investment income: <b>2 x 4</b>	1,618,603	1,504,755
<b>6</b> Actuarial gain/(loss): <b>1 - 5</b>	<u>-\$1,638,224</u>	<u>-\$741,116</u>

## Section 2: Actuarial Valuation Results

Because actuarial planning is long term, it is useful to see how the assumed investment rate of return has followed actual experience over time. The chart below shows the rate of return on an actuarial basis for the last ten years, including averages over select time periods.

### Investment Return – Actuarial Value of Assets (equal to Market Value of Assets): 2011 - 2020

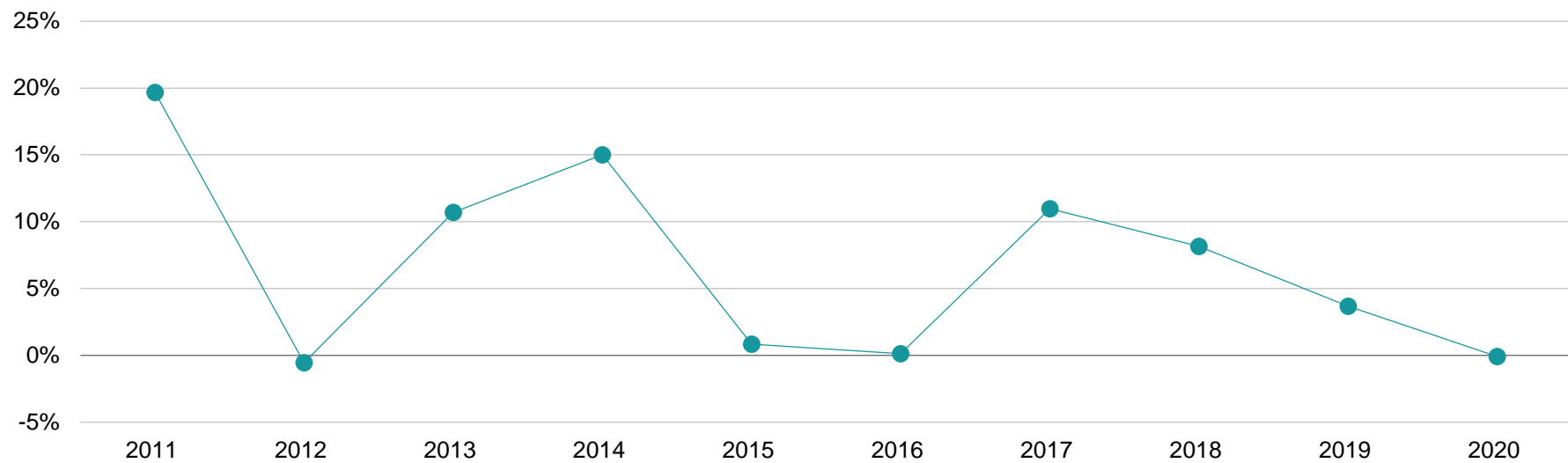
Actuarial Value and Market Value Investment Return		
Year Ended June 30	Amount	Percent
2011	\$3,048,523	19.68%
2012	-93,521	-0.55
2013	1,611,219	10.71
2014	2,301,494	15.01
2015	141,369	0.85
2016	21,130	0.13
2017	1,753,780	10.98
2018	1,512,485	8.15
2019	763,639	3.68
2020	-19,621	-0.09
<b>Total</b>	<b>\$11,040,497</b>	
	Most recent five-year average return	4.31%
	Most recent ten-year average return	6.38%

Note: Each year's yield is weighted by the average asset value in that year.

## Section 2: Actuarial Valuation Results

The actuarial value of assets has been equal to market value for the last ten years. This has resulted in relatively volatile actuarial rates of return and pension plan cost.

Actuarial Rates of Return (equal to Market Value Rates of Return) for Years Ended June 30, 2011 - 2020



## Section 2: Actuarial Valuation Results

### Administrative expenses

- Administrative expenses for the year ended June 30, 2020 totaled \$50,096, as compared to the assumption of \$87,500 payable as of the beginning of the year. This resulted in a gain of \$41,995 for the year. We have maintained the assumption of \$87,500 for the current year.

### Other experience

There are other differences between the expected and the actual experience that appear when the new valuation is compared with the projections from the previous valuation. These include:

- the extent of turnover among participants,
- retirement experience (earlier or later than projected),
- the number of disability retirements (more or fewer than projected), and
- salary increases (greater or smaller than projected).

The net gain from this other experience for the year ended June 30, 2020 amounted to \$941,558, which is 1.2% of the actuarial accrued liability.

#### Liability Changes Due to Demographic Experience for Year Ended June 30, 2020

Changes in benefit amounts	\$6,712
Salary increases less than expected	286,535
Retirement experience different than expected	136,517
Mortality experience	-35,212
Disability retirement experience different than expected	232,635
Miscellaneous	314,371
<b>Total</b>	<b>\$941,558</b>

## Section 2: Actuarial Valuation Results

### Changes in the Actuarial Accrued Liability

The actuarial accrued liability as of June 30, 2020 is \$79,561,721, an increase of \$1,765,759, or 2.3%, from the actuarial accrued liability as of the prior valuation date. The liability is expected to grow each year with normal cost and interest, and to decline due to benefit payments made. Additional fluctuations can occur due to actual experience that differs from expected (as discussed in the previous subsection).

### Actuarial assumptions

There were no assumption changes reflected in this report.

Details on actuarial assumptions and methods are in *Section 4, Exhibit I*.

### Plan provisions

There were no changes in plan provisions since the prior valuation.

A summary of plan provisions is in *Section 4, Exhibit II*.

## Section 2: Actuarial Valuation Results

### Development of Unfunded Actuarial Accrued Liability for Year Ended June 30, 2020

<b>1</b>	Unfunded actuarial accrued liability at beginning of year	\$55,904,460
<b>2</b>	Normal cost at beginning of year	1,590,337
<b>3</b>	Total expected contributions	-5,303,855
<b>4</b>	Interest	
	• For whole year on <b>1 + 2</b>	\$4,168,373
	• For half year on <b>3</b>	<u>-192,266</u>
	Total interest	<u>3,976,107</u>
<b>5</b>	Expected unfunded actuarial accrued liability	\$56,167,049
<b>6</b>	Changes due to net experience gains and losses	\$654,671
<b>7</b>	Unfunded actuarial accrued liability at end of year	<u>\$56,821,720</u>

## Section 2: Actuarial Valuation Results

### Actuarially determined contribution

The actuarially determined contribution is based on a settlement agreement whereby the employer contribution for the fiscal year ending June 30, 2017 could not be less than \$4,575,446 with this amount increasing 3.00% per year. For the fiscal year ending June 30, 2022, the actuarially determined contribution is \$5,304,196.

Based upon the required contribution of \$5,304,196, the unfunded actuarial accrued liability of \$56,821,720 as of June 30, 2020 is effectively being amortized over 23.56 years.

The contribution requirement as of June 30, 2022 is based on the data previously described, the actuarial assumptions and plan provisions described in *Section 4*, including all changes affecting future costs adopted at the time of the actuarial valuation, actuarial gains and losses, and changes in the actuarial assumptions.

#### Actuarially Determined Contribution for Year Beginning July 1

	2020	2019
	Amount	Amount
1. Total normal cost	\$1,378,435	\$1,502,837
2. Administrative expenses	87,500	87,500
3. Expected employee contributions	<u>-358,703</u>	<u>-362,427</u>
4. Employer normal cost: (1) + (2) + (3)	\$1,107,232	\$1,227,910
5. Actuarial accrued liability	\$79,561,721	\$77,795,962
6. Actuarial value of assets	22,740,001	21,891,502
7. Unfunded actuarial accrued liability: (5) - (6)	\$56,821,720	\$55,904,460
8. Payment on unfunded actuarial accrued liability	3,665,398	3,405,711
9. Adjustment for timing <sup>1</sup>	<u>531,566</u>	<u>516,084</u>
10. Actuarially determined contribution: (4) + (8) + (9)	<u>\$5,304,196</u>	<u>\$5,149,705</u>

<sup>1</sup>Actuarially determined contributions are assumed to be paid at the middle of the next fiscal year.



## Section 2: Actuarial Valuation Results

### History of employer contributions

A history of the most recent years of contributions is shown below.

The Actuarially Determined Contribution (ADEC) is based on an actuarial valuation as of two years prior to the Fiscal Year End. With the adoption of the Funding Improvement Plan as of June 30, 2017, the ADEC shows a significant reduction between the Fiscal Year Ended June 30, 2018 and June 30, 2019.

#### History of Employer Contributions: 2012 – 2021

Fiscal Year Ended June 30	Actuarially Determined Employer Contribution (ADEC) <sup>1</sup>	Actual Employer Contribution <sup>2</sup>	Percent Contributed
	Amount	Amount	
2012	\$4,730,394	\$1,610,531	34.05%
2013	4,984,688	1,614,233	32.38%
2014	6,633,618	2,711,326	40.87%
2015	6,579,139	2,786,367	42.35%
2016	7,197,627	2,783,429	38.67%
2017	8,073,936	4,797,069	59.41%
2018	8,509,584	4,714,480	55.40%
2019	4,854,090	4,854,090	100.00%
2020	4,999,713	4,999,713	100.00%
2021	5,149,705	--	--

<sup>1</sup>The Actuarially Determined Employer Contribution for years ending prior to June 30, 2018 were based on valuations performed prior to the implementation of the Funding Improvement Plan.

<sup>2</sup>The Actual Employer Contributions meet the required amounts under the Funding Improvement Plan for years subsequent to June 30, 2018.

## Section 2: Actuarial Valuation Results

### Risk

Since the actuarial valuation results are dependent on a given set of assumptions and data as of a specific date, there is a risk that emerging results may differ significantly as actual experience differs from the assumptions.

This report does not contain a detailed analysis of the potential range of future measurements, but does include a brief discussion of some risks that may affect the Pension System. Upon request, a more detailed assessment of the risks can be provided to the Trustees to enable a better understanding of the risks inherent in the Pension System. This assessment may include scenario testing, sensitivity testing, stress testing and stochastic modeling.

- Investment Risk (the risk that returns will be different than expected)

If the actual return on market value for the next Plan Year were 1% different from the assumed (either higher or lower), the projected unfunded actuarial liability would change by 0.40%, or about \$227,000.

The market value rate of return over the last ten years has ranged from a low of -0.55% to a high of 19.68%.

- Longevity Risk (the risk that mortality experience will be different than expected)

The actuarial valuation includes an expectation of future improvement in life expectancy. Emerging plan experience that does not match these expectations will result in either an increase or decrease in the actuarially determined contribution.

- Contribution Risk (the risk that actual contributions will be different from actuarially determined contribution)

The Pension System's funding policy requires payment of the actuarially determined contribution. As long as this policy is adhered to, contribution risk is negligible.

- Demographic Risk (the risk that participant experience will be different than assumed)

Examples of this risk include:

- Actual retirements occurring earlier or later than assumed. The value of retirement plan benefits is sensitive to the rate of benefit accruals and any early retirement subsidies that apply.
- More or less active participant turnover than assumed.

## Section 2: Actuarial Valuation Results

- Actual Experience Over the Last Ten Years and Implications for the Future

Past experience can help demonstrate the sensitivity of key results to the Pension System's actual experience. Over the past ten years:

The investment gain(loss) for a year has ranged from a loss of \$1,638,224 to a gain of \$2,142,325. If all investment returns were equal to the assumed return over the last ten years, the market value of assets as of the current valuation date would be approximately \$28,424,252 as opposed to the actual value of \$22,740,001.

The non-investment gain(loss) for a year has ranged from a loss of \$4,025,948 to a gain of \$3,794,301.

The funded percentage on the actuarial value of assets has ranged from a low of 18.6% to a high of 29.5% since 2011.

- Maturity Measures

As pension plans mature, the cash need to fulfill benefit obligations will increase over time. Therefore, cash flow projections and analysis should be performed to assure that the Pension System's asset allocation is aligned to meet emerging pension liabilities.

Currently the Pension System has a non-active to active participant ratio of 2.28. For the prior year benefits paid and administrative expenses were \$868,120 less than contributions received. As the Pension System becomes better funded, more cash will be paid from the investment portfolio to meet benefit payments.

# Supplemental Information

## Exhibit A: Table of Plan Coverage

Category	Year Ended June 30		Change From Prior Year
	2020	2019	
<b>Active participants in valuation:</b>			
• Number	46	47	-2.1%
• Average age	45.5	44.5	1.0
• Average years of service	16.2	15.3	0.9
• Total payroll	\$4,579,776	\$4,630,718	-1.1%
• Average payroll	99,560	98,526	1.0%
• Account balances	3,368,822	3,159,226	6.6%
• Total active vested participants	46	42	9.5%
<b>Retired participants<sup>1</sup>:</b>			
• Number in pay status	72	72	0.0%
• Average age	62.8	62.2	0.6
• Average monthly benefit	\$3,789	\$3,756	0.9%
<b>Disabled participants:</b>			
• Number in pay status	17	17	0.0%
• Average age	60.1	59.1	1.0
• Average monthly benefit	\$3,555	\$3,555	0.0%
<b>Beneficiaries:</b>			
• Number in pay status	16	16	0.0%
• Average age	76.1	71.9	4.2
• Average monthly benefit	\$2,264	\$2,264	0.0%

<sup>1</sup>Includes alternate payees receiving benefits subject to a QDRO.

## Section 3: Supplemental Information

### Exhibit B: Participants in Active Service as of June 30, 2020 by Age, Years of Service, and Average Payroll

Age	Years of Service					
	Total	10-14	15 - 19	20 - 24	25 - 29	30 - 34
30 - 34	2	2	--	--	--	--
	\$91,338	\$91,338	--	--	--	--
35 - 39	14	6	8	--	--	--
	96,143	88,499	\$101,875	--	--	--
40 - 44	9	2	7	--	--	--
	99,634	91,066	102,082	--	--	--
45 - 49	9	2	4	3	--	--
	96,870	80,322	95,406	\$109,856	--	--
50 - 54	7	2	2	3	--	--
	103,942	103,221	101,359	106,145	--	--
55 - 59	2	--	--	1	--	1
	109,789	--	--	123,595	--	\$95,982
60 - 64	1	--	1	--	--	--
	86,487	--	86,487	--	--	--
65 - 69	1	--	--	--	1	--
	136,550	--	--	--	\$136,550	--
70 & over	1	--	--	--	1	--
	112,354	--	--	--	112,354	--
<b>Total</b>	<b>46</b>	<b>14</b>	<b>22</b>	<b>7</b>	<b>2</b>	<b>1</b>
	\$99,560	\$90,206	\$100,018	\$110,228	\$124,452	\$95,982

## Section 3: Supplemental Information

### Exhibit C: Reconciliation of Participant Data

	Active Participants	Disableds	Retired Participants	Beneficiaries	Total
<b>Number as of June 30, 2019</b>	<b>47</b>	<b>17</b>	<b>72</b>	<b>16</b>	<b>152</b>
• Retirements	-1	N/A	1	N/A	0
• New disabilities	0	0	N/A	N/A	0
• Deceased	0	0	-1	0	-1
• New beneficiary	0	0	0	0	0
• Lump sum cash-outs	0	0	0	0	0
• New QDRO <sup>1</sup>	0	0	0	0	0
<b>Number as of June 30, 2020</b>	<b>46</b>	<b>17</b>	<b>72</b>	<b>16</b>	<b>151</b>

<sup>1</sup>The data includes no new former spouses receiving benefits under qualified domestic relations orders (QDROs).

## Section 3: Supplemental Information

### Exhibit D: Summary Statement of Income and Expenses on an Actuarial and Market Value Basis

	Year Ended June 30, 2020	Year Ended June 30, 2019
Net assets at actuarial and market value at the beginning of the year	\$21,891,502	\$20,382,631
<b>Contribution income:</b>		
• Employer contributions	\$4,999,713	\$4,854,090
• Employee contributions	302,388	314,146
• Purchase of service & other income	1,754	37,077
• Less administrative expenses	<u>-50,096</u>	<u>-66,174</u>
<i>Net contribution income</i>	<i>\$5,253,759</i>	<i>\$5,139,139</i>
<b>Investment income</b>	<b><u>-\$19,621</u></b>	<b><u>\$763,639</u></b>
<b>Total income available for benefits</b>	<b>\$5,234,138</b>	<b>\$5,902,778</b>
<b>Less benefit payments</b>	<b>-\$4,385,639</b>	<b>-\$4,393,907</b>
<b>Change in reserve for future benefits</b>	<b>\$848,499</b>	<b>\$1,508,871</b>
<b>Net assets at actuarial and market value at the end of the year</b>	<b>\$22,740,001</b>	<b>\$21,891,502</b>

## Section 3: Supplemental Information

### Exhibit E: Development of the Fund through June 30, 2020

Year Ended June 30	Employer Contributions <sup>1</sup>	Employee Contributions <sup>2</sup>	Net Investment Return <sup>3</sup>	Admin. Expenses <sup>4</sup>	Benefit Payments <sup>5</sup>	Actuarial and Market Value of Assets at Year-End
2011	\$1,899,530	\$306,796	\$3,048,523	\$3,800	\$3,055,991	\$18,113,745
2012	1,808,661	528,246	-93,521	3,495	4,471,261	15,882,375
2013	1,614,233	347,048	1,611,219	0	3,638,703	15,816,172
2014	2,711,326	369,825	2,301,494	127,317	3,929,063	17,142,437
2015	2,786,367	388,335	141,369	71,000	4,023,457	16,364,051
2016	2,783,429	394,051	21,130	77,828	4,002,706	15,482,127
2017	4,797,069	426,286	1,753,780	84,157	4,149,738	18,225,367
2018	4,714,480	368,002	1,512,485	73,110	4,364,593	20,382,631
2019	4,854,090	351,223	763,639	66,174	4,393,907	21,891,502
2020	4,999,713	304,142	-19,621	50,096	4,385,639	22,740,001

<sup>1</sup>Includes employer contribution for claims and judgments

<sup>2</sup>Includes single premium deferred annuities, service purchases, and other income

<sup>3</sup>Net of investment fees

<sup>4</sup>Through 2013, only reflects ING account balance maintenance fees

<sup>5</sup>Includes refunds service buybacks



## Section 3: Supplemental Information

### Exhibit F: Definition of Pension Terms

The following list defines certain technical terms for the convenience of the reader:

<b>Actuarial Accrued Liability for Actives:</b>	The equivalent of the accumulated normal costs allocated to the years before the valuation date.
<b>Actuarial Accrued Liability for Pensioners and Beneficiaries:</b>	Actuarial Present Value of lifetime benefits to existing pensioners and beneficiaries. This sum takes account of life expectancies appropriate to the ages of the annuitants and the interest that the sum is expected to earn before it is entirely paid out in benefits.
<b>Actuarial Cost Method:</b>	A procedure allocating the Actuarial Present Value of Future Benefits to various time periods; a method used to determine the Normal Cost and the Actuarial Accrued Liability that are used to determine the actuarially determined contribution.
<b>Actuarial Gain or Loss:</b>	A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two Actuarial Valuation dates. To the extent that actual experience differs from that assumed, Actuarial Accrued Liabilities emerge which may be the same as forecasted, or may be larger or smaller than projected. Actuarial gains are due to favorable experience, e.g., assets earn more than projected, salary increases are less than assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, actuarial losses are the result of unfavorable experience, i.e., actual results yield actuarial liabilities that are larger than projected.
<b>Actuarially Equivalent:</b>	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
<b>Actuarial Present Value (APV):</b>	The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions. Each such amount or series of amounts is: Adjusted for the probable financial effect of certain intervening events (such as changes in compensation levels, marital status, etc.) Multiplied by the probability of the occurrence of an event (such as survival, death, disability, withdrawal, etc.) on which the payment is conditioned, and Discounted according to an assumed rate (or rates) of return to reflect the time value of money.

## Section 3: Supplemental Information

<b>Actuarial Present Value of Future Benefits:</b>	The Actuarial Present Value of benefit amounts expected to be paid at various future times under a particular set of Actuarial Assumptions, taking into account such items as the effect of advancement in age, anticipated future compensation, and future service credits. The Actuarial Present Value of Future Benefits includes the liabilities for active members, retired members, beneficiaries receiving benefits, and inactive members entitled to either a refund of member contributions or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.
<b>Actuarial Valuation:</b>	The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan, as well as Actuarially Determined Contributions.
<b>Actuarial Value of Assets (AVA):</b>	The value of the Plan's assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets, but commonly plans use a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the Actuarially Determined Contribution.
<b>Actuarially Determined:</b>	Values that have been determined utilizing the principles of actuarial science. An actuarially determined value is derived by application of the appropriate actuarial assumptions to specified values determined by provisions of the Plan.
<b>Actuarially Determined Contribution (ADC):</b>	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under the Town's funding policy. The ADC consists of the Employer Normal Cost and the Amortization Payment.
<b>Amortization Method:</b>	A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the Unfunded Actuarial Accrued Liability. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the Unfunded Actuarial Accrued Liability. Under the Level Percentage of Pay method, the stream of payments increases at the assumed rate at which total covered payroll of all active members will increase.
<b>Amortization Payment:</b>	The portion of the pension plan contribution, or ADC, that is intended to pay off the Unfunded Actuarial Accrued Liability.

## Section 3: Supplemental Information

<b>Assumptions or Actuarial Assumptions:</b>	The estimates upon which the cost of the Plan is calculated, including: <u>Investment return</u> - the rate of investment yield that the Plan will earn over the long-term future; <u>Mortality rates</u> - the rate or probability of death at a given age for employees and pensioners; <u>Retirement rates</u> - the rate or probability of retirement at a given age or service; <u>Disability rates</u> - the rate or probability of disability retirement at a given age; <u>Withdrawal rates</u> - the rate or probability at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement; <u>Salary increase rates</u> - the rates of salary increase due to inflation, real wage growth and merit and promotion increases.
<b>Closed Amortization Period:</b>	A specific number of years that is counted down by one each year, and therefore declines to zero with the passage of time. For example, if the amortization period is initially set at 20 years, it is 19 years at the end of one year, 18 years at the end of two years, etc. See Open Amortization Period.
<b>Decrements:</b>	Those causes/events due to which a member's status (active-inactive-retiree-beneficiary) changes, that is: death, retirement, disability, or withdrawal.
<b>Defined Benefit Plan:</b>	A retirement plan in which benefits are defined by a formula based on the member's compensation, age and/or years of service.
<b>Defined Contribution Plan:</b>	A retirement plan, such as a 401(k) plan, a 403(b) plan, or a 457 plan, in which the contributions to the plan are assigned to an account for each member, the plan's earnings are allocated to each account, and each member's benefits are a direct function of the account balance.
<b>Employer Normal Cost:</b>	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
<b>Experience Study:</b>	A periodic review and analysis of the actual experience of the Plan that may lead to a revision of one or more actuarial assumptions. Actual rates of decrement and salary increases are compared to the actuarially assumed values and modified based on recommendations from the Actuary.
<b>Funded Ratio:</b>	The ratio of the Actuarial Value of Assets (AVA) to the Actuarial Accrued Liability (AAL). Plans sometimes also calculate a market funded ratio, using the Market Value of Assets (MVA), rather than the AVA.

## Section 3: Supplemental Information

<b>GASB 67 and GASB 68:</b>	Governmental Accounting Standards Board (GASB) Statements No. 67 and No. 68. These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 67 sets the rules for the systems themselves.
<b>Investment Return:</b>	The rate of earnings of the Plan from its investments, including interest, dividends and capital gain and loss adjustments, computed as a percentage of the average value of the fund. For actuarial purposes, the investment return often reflects a smoothing of the capital gains and losses to avoid significant swings in the value of assets from one year to the next.
<b>Net Pension Liability (NPL):</b>	The Net Pension Liability is equal to the Total Pension Liability minus the Plan Fiduciary Net Position.
<b>Normal Cost:</b>	The portion of the Actuarial Present Value of Future Benefits and expenses allocated to a valuation year by the Actuarial Cost Method. Any payment with respect to an Unfunded Actuarial Accrued Liability is not part of the Normal Cost (see Amortization Payment). For pension plan benefits that are provided in part by employee contributions, Normal Cost refers to the total of member contributions and employer Normal Cost unless otherwise specifically stated.
<b>Open Amortization Period:</b>	An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. If the initial period is set as 30 years, the same 30-year period is used in each future year in determining the Amortization Period.
<b>Plan Fiduciary Net Position:</b>	Market value of assets.
<b>Total Pension Liability (TPL):</b>	The actuarial accrued liability under the entry age normal cost method and based on the blended discount rate as described in GASB 67 and 68.
<b>Unfunded Actuarial Accrued Liability:</b>	The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets. This value may be negative, in which case it may be expressed as a negative Unfunded Actuarial Accrued Liability, also called the Funding Surplus or an Overfunded Actuarial Accrued Liability.
<b>Valuation Date or Actuarial Valuation Date:</b>	The date as of which the value of assets is determined and as of which the Actuarial Present Value of Future Benefits is determined. The expected benefits to be paid in the future are discounted to this date.

# Actuarial Valuation Basis

## Exhibit I: Actuarial Assumptions, Actuarial Cost Method and Models

<b>Rationale for Assumptions</b>	The information and analysis used in selecting each demographic assumption that has a significant effect on this actuarial valuation is shown in the Actuarial Experience Review July 1, 2014 to June 30, 2017 dated November 30, 2017. Please see this study for the rationale for each assumption used. As noted in this study, due to the low number of participants in the Police and Firefighters System, the mortality experience is not credible. It is our understanding that the State of Rhode Island deems the mortality assumptions reasonable if they match the assumptions used for the State of Rhode Island Municipal Employees Retirement System (MERS). Therefore, the mortality assumptions shown below match the MERS assumptions used at the time of the experience study.
<b>Net Investment Return:</b>	7.25% The net investment return assumption is a long-term estimate derived from historical data, current and recent market expectations, and professional judgment. As part of the analysis, a building block approach was used that reflects inflation expectations and anticipated risk premiums for each of the portfolio's asset classes as well as the Pension System's target asset allocation.
<b>Inflation:</b>	2.50%
<b>Salary Increases:</b>	3.75%; including 2.50% for inflationary increases, 0.50% for productivity increases and 0.75% for promotional and longevity increases.
<b>Cost-of-Living Adjustments:</b>	0% through June 30, 2022; 1.25% compounded annually commencing July 1, 2022.
<b>Mortality Rates:</b>	
<i>Pre-retirement:</i>	RP-2014 Employee Mortality Table
<i>Healthy annuitants:</i>	Male: RP-2014 Blue Collar Healthy Annuitant Mortality Table for males, projected generationally with Scale MP-2016 Female: RP-2014 Healthy Annuitant Mortality Table for females, projected generationally with Scale MP-2016
<i>Disabled annuitants:</i>	RP-2014 Disabled Retiree Mortality Table, projected generationally with Scale MP-2016

## Section 4: Actuarial Valuation Basis

### Annuitant Mortality Rates:

Age	Rate (%)			
	Healthy <sup>1</sup>		Disabled <sup>1</sup>	
	Male	Female	Male	Female
55	0.60%	0.36%	2.34%	1.45%
60	0.85	0.52	2.66	1.70
65	1.26	0.80	3.17	2.09
70	1.97	1.29	4.03	2.82
75	3.15	2.09	5.43	4.10
80	5.19	3.48	7.66	6.10
85	8.68	6.05	11.33	9.04
90	14.64	10.71	17.30	13.27

<sup>1</sup>Rates shown do not include generational projection.

### Termination Rates Before Retirement:

Age	Rate (%)					
	Mortality		Disability		Withdrawal	
	Male	Female	Male	Female	Male	Female
20	0.04%	0.02%	0.00%	0.00%	0.00%	0.00%
25	0.05	0.02	0.34	0.34	0.00	0.00
30	0.05	0.02	0.44	0.44	0.00	0.00
35	0.05	0.03	0.58	0.58	0.00	0.00
40	0.06	0.04	0.88	0.88	0.00	0.00
45	0.10	0.07	1.44	1.44	0.00	0.00
50	0.17	0.11	2.42	2.42	0.00	0.00
55	0.28	0.17	0.00	0.00	0.00	0.00
60	0.47	0.24	0.00	0.00	0.00	0.00

Note: 100% of deaths and disabilities are assumed to be service related.

## Section 4: Actuarial Valuation Basis

<b>Retirement Rates:</b>	<b>Years of Service</b>	<b>Retirement Probability</b>
	18 - 20	25%
	21 - 22	35%
	23 - 24	50%
	25 or more	100%
<i>All employees are assumed to retire no later than age 65.</i>		
<b>Description of Weighted Average Retirement Age:</b>	Age 50.4, determined as follows: The weighted average retirement age for each participant is calculated as the sum of the product of each potential current or future retirement age times the probability of surviving from current age to that age and then retiring at that age, assuming no other decrements. The overall weighted retirement age is the average of the individual retirement ages based on all the active participants included in the June 30, 2020 actuarial valuation.	
<b>Percent Married:</b>	85% of all active and retired police officers are assumed to be married.	
<b>Age of Spouse:</b>	Females are assumed to be three years younger than males, unless dates of birth are provided.	
<b>Administrative Expenses:</b>	Administrative expenses are assumed to be \$87,500, payable as of the beginning of the year.	
<b>Amortization Method:</b>	Each year, the amortization payment is determined by subtracting the employer normal cost from the required contribution under the settlement agreement. The effective amortization period is then determined from the current unfunded actuarial accrued liability and the calculated amortization payment based on the Pension System's funding interest rate and assuming the payment will increase 3.00% annually.	
<b>Actuarial Value of Assets:</b>	At market value.	
<b>Actuarial Cost Method:</b>	Entry Age Actuarial Cost Method. Entry Age is current age minus years of service. Normal Cost and Actuarial Accrued Liability are calculated on an individual basis and are allocated by salary, with Normal Cost determined using the plan of benefits applicable to each participant.	
<b>Justification for Change in Actuarial Assumptions:</b>	There have been no changes in actuarial assumptions since the last valuation.	

Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.

## Section 4: Actuarial Valuation Basis

### Exhibit II: Summary of Plan Provisions

This exhibit summarizes the major provisions of the Plan included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions.

<b>Plan Year:</b>	July 1 through June 30																												
<b>Plan Status:</b>	Closed to new entrants as of July 1, 2010																												
<b>Normal Retirement:</b>																													
<i>Eligibility</i>	18 years of service																												
<i>Amount</i>	The annual benefit at retirement is equal to the percentage of final salary specified in the table below. For pension purposes, final average salary is a three-year average of pay which is documented on the W-2 tax form, except monies paid to the Town of Johnston which were funded by private companies to hire officers for non-municipal detail assignments and the officer's gun/qualification allowance, with overtime limited to \$35,000 each year.																												
	<table border="1"> <thead> <tr> <th><b>Years of Service</b></th> <th><b>Benefit as a Percentage of Final Average Salary</b></th> </tr> </thead> <tbody> <tr><td>18</td><td>45.0%</td></tr> <tr><td>19</td><td>47.5</td></tr> <tr><td>20</td><td>50.0</td></tr> <tr><td>21</td><td>52.5</td></tr> <tr><td>22</td><td>55.0</td></tr> <tr><td>23</td><td>57.5</td></tr> <tr><td>24</td><td>60.0</td></tr> <tr><td>25</td><td>65.0</td></tr> <tr><td>26</td><td>66.0</td></tr> <tr><td>27</td><td>67.0</td></tr> <tr><td>28</td><td>68.0</td></tr> <tr><td>29</td><td>69.0</td></tr> <tr><td>30 or more</td><td>70.0</td></tr> </tbody> </table>	<b>Years of Service</b>	<b>Benefit as a Percentage of Final Average Salary</b>	18	45.0%	19	47.5	20	50.0	21	52.5	22	55.0	23	57.5	24	60.0	25	65.0	26	66.0	27	67.0	28	68.0	29	69.0	30 or more	70.0
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<i>Commencement Date</i>	Retirement benefits commence as of the first payroll period after retirement.																												



## Section 4: Actuarial Valuation Basis

<b>Service Related Disability:</b>	
<i>Eligibility</i>	Retirement because of a job related mental or physical incapacity
<i>Amount</i>	66 2/3% of final salary
<i>Commencement Date</i>	Benefits commence as of the first payroll period after disability
<b>Vesting:</b>	
<i>Eligibility</i>	Upon termination of employment after 10 years of service a member is eligible for a benefit deferred to retirement age.
<i>Benefit Formula</i>	25% of final salary at termination plus cumulative COLA. Member may waive right to deferred retirement benefit in return for refund of employee and employer contribution account.
<i>Commencement Date</i>	21 <sup>st</sup> anniversary of employment for deferred annuity. Immediate payment for refund.
<b>Spouse's Pre-Retirement Death Benefit</b>	
<i>Eligibility</i>	Death while actively employed
<i>Benefit Formula</i>	Surviving spouse (or if none, dependent children) receives benefit of 50% of final salary (30% of final salary for non-service related death)
<i>Commencement Date</i>	Benefits commence as of the first payroll period after death
<b>Retiree Cost-Of-Living Increases:</b>	Between July 1, 2017 and June 30, 2022, the COLA is suspended. Commencing July 1, 2022 the annual COLA will be 1.25%, compounded annually.
<b>Military Service Purchase:</b>	A member may purchase up to two years of pension service credit for prior military service by contributing 6% of pay at any time prior to retirement, for each year purchased.
<b>Employee Contributions:</b>	8% of pensionable earnings. Employees terminating before retirement may withdraw the employee-provided account and forfeit their right to pension benefits.
<b>Eligibility:</b>	All members of the Police Department hired before July 1, 2010 (members hired after this date are participants in the Rhode Island Municipal Employees Retirement System).
<b>Optional Forms of Payment:</b>	All single participants receive a life annuity. All married participants receive a fully subsidized 67.5% joint and survivor annuity. There are no optional forms of payment.
<b>Employer Contributions:</b>	The Town of Johnston adopted a policy such that the scheduled contribution is at least \$4,575,446 for the fiscal year ending June 30, 2017, with this amount to be increased 3.00% annually.
<b>Changes in Plan Provisions:</b>	There have been no changes in plan provisions since the last valuation.

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