

**CITY OF WAUCHULA
PENSION PLAN**

**ACTUARIAL VALUATION
AS OF OCTOBER 1, 2020**

**DETERMINES THE CONTRIBUTION
FOR THE 2020/21 FISCAL YEAR**



	<u>Page</u>
Discussion	1
 <u>Funding Results</u>	
Table I-A Minimum Required Contribution	I-1
Table I-B Sensitivity Analysis	I-2
Table I-C Gain and Loss Analysis	I-3
Table I-D Present Value of Future Benefits	I-4
Table I-E Present Value of Accrued Benefits	I-5
Table I-F Present Value of Vested Benefits	I-6
Table I-G Entry Age Normal Accrued Liability	I-7
Table I-H Unfunded Liability Bases	I-8
Table I-I Development of the Normal Cost	I-9
 <u>Accounting Results</u>	
GASB 67/68 Supplement as of September 30, 2020	
 <u>Assets</u>	
Table II-A Actuarial Value of Assets	II-1
Table II-B Market Value of Assets	II-2
Table II-C Investment Return	II-3
Table II-D Asset Reconciliation	II-4
Table II-E Historical Trust Fund Detail	II-5
Table II-F Other Reconciliations	II-6
 <u>Data</u>	
Table III-A Summary of Participant Data	III-1
Table III-B Data Reconciliation	III-2
Table III-C Active Participant Data	III-3
Table III-D Active Age-Service Distribution	III-4
Table III-E Active Age-Service-Salary Table	III-5
Table III-F Inactive Participant Data	III-6
Table III-G Projected Benefit Payments	III-7
 <u>Methods & Assumptions</u>	
Table IV-A Summary of Actuarial Methods and Assumptions	IV-1
Table IV-B Changes in Actuarial Methods and Assumptions	IV-4
 <u>Plan Provisions</u>	
Table V-A Summary of Plan Provisions	V-1
Table V-B Summary of Plan Amendments	V-6



January 6, 2021

Introduction

This report presents the results of the October 1, 2020 actuarial valuation of the City of Wauchula Pension Plan. The report is based on the participant data and asset information provided by the pension plan administrator and, except for a cursory review for reasonableness including a comparison to the data provided for the previous valuation, we have not attempted to verify the accuracy of this information.

The primary purpose of this report is to provide a summary of the funded status of the plan as of October 1, 2020 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2020/21 plan year. In addition, this report provides a projection of the long-term funding requirements of the plan, statistical information concerning the assets held in the trust, statistical information concerning the participant population, and a summary of any recent plan changes.

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the future demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an *estimate* of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table IV-A. If any of the assumptions is changed, then the cost shown in this report will change accordingly. Likewise, if any of the assumptions is not completely realized, then the cost shown in this report will change in the future.

Certain assumptions play a bigger role than others in determining the cost of the post-employment pension benefits. In some cases, relatively small changes in a particular assumption can have a dramatic impact on the anticipated cost of benefits. Although a thorough analysis of the impact of such changes is beyond the scope of this report, Table I-B illustrates the impact that alternative long-term investment returns would have on the minimum required contribution rate.

Minimum Required Contribution

Table I-A shows the development of the minimum required contribution for the 2020/21 plan year. The minimum required contribution rate is 4.65% of covered payroll, which represents a decrease of 0.33% of payroll from the prior valuation.

Table I-C provides a breakdown of the sources of change in the contribution rate. Significantly, the rate increased by 0.20% of payroll due to investment shortfalls, decreased by 0.90% of payroll due to demographic experience, and increased by another 0.37% of payroll due to the assumption change that is described below. The market value of assets only earned 6.57% during the 2019/20 plan year, whereas a 7.00% annual investment return was required to maintain a stable contribution rate.



Chapter 112, Florida Statutes, sets forth the rules concerning the minimum required contribution for public pension plans within the state. Essentially, the City must contribute an amount equal to the annual normal cost of the plan plus an amortization payment towards the unfunded liability, where the amortization period is no longer than 30 years and where both amounts are adjusted as necessary for administrative expenses and to reflect interest on any delayed payment of the contribution beyond the valuation date. On this basis, the City's 2020/21 minimum required contribution will be equal to 4.65% multiplied by the total pensionable earnings for the 2020/21 fiscal year for the active employees who are covered by the plan.

Based on the current assets, participant data, and actuarial assumptions and methods that are used to value the plan, the present-day value of the total long-term funding requirement is \$24,193,729. As illustrated in Table I-A, current assets are sufficient to cover \$19,907,646 of this amount, the employer's 2020/21 expected contribution will cover \$136,968 of this amount, and future employee contributions are expected to cover \$2,887,333 of this amount, leaving \$1,261,782 to be covered by future employer funding beyond the 2020/21 fiscal year. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

Advance Employer Contribution

The City has made contributions to the plan in excess of the minimum amount that was required to be contributed pursuant to Chapter 112. In this report, the excess contributions are referred to as an "advance employer contribution." As of October 1, 2020, the advance employer contribution is \$299,287, which reflects the advance employer contribution of \$454,934 as of October 1, 2019 minus \$155,647 to cover the shortfall between actual employer contributions and the minimum required contribution for the 2019/20 plan year as shown in Table II-F.

The City may apply all or any portion of the advance employer contribution towards the minimum required contribution for the 2020/21 plan year or for any later plan year. The minimum required contribution for that plan year will be reduced dollar-for-dollar by the amount of the advance employer contribution that is applied in this manner.

Alternatively, at any time, the City may apply all or any portion of the advance employer contribution as an *extra* contribution in excess of the minimum required contribution. In this case, the immediate application of the entire balance of the advance employer contribution as of October 1, 2020 would reduce the minimum required contribution for the 2020/21 plan year to 3.58% of payroll.

Actuarial Assumption Change

Since the completion of the previous valuation, the mortality basis was changed from the RP-2000 Combined Mortality Table with generational improvements in mortality using Scale BB to selected PUB-2010 Mortality Tables with generational improvements in mortality using Scale MP-2018. The impact of the assumption changes was to increase the minimum required contribution by 0.37% of payroll.



Identification and Assessment of Risk

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the future demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an *estimate* of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table IV-A. If any of the assumptions is changed, then the cost shown in this report will change accordingly. Likewise, there is always a risk that, should these assumptions not be realized, the liabilities of the plan, the contributions required to fund the plan, and the funded status of the plan may be significantly different than the amounts shown in this report.

Although a thorough analysis of the risk of not meeting the assumptions is beyond the scope of this report, this discussion is intended to identify the significant risks faced by the plan. In some cases, a more detailed review of the risks, including numerical analysis, may be appropriate to help the plan sponsor and other interested parties assess the specific impact of not realizing certain assumptions. For example, Table I-B illustrates the impact that alternative long-term investment returns would have on the contribution rate. Note that this report is not intended to provide advice on the management or reduction of the identified risks nor is this report intended to provide investment advice.

The most significant risk faced by most defined benefit pension plans is investment risk, i.e. the risk that long-term investment returns will be less than assumed. Other related risks include a risk that, if the investments of the plan decline dramatically over a short period of time (such as occurred with many pension plans in 2008), the plan's assets may not have sufficient time to recover before benefits become due. Even if the assets of the plan grow in accordance with the assumed investment return over time, if benefit payments are expected to be large in the short-term (for example, if the plan provides an actuarial equivalent lump sum payment option and a large number of participants are expected to become entitled to such a lump sum in the near future), the plan's assets may not be sufficient to support such a high level of benefit payments. We have provided a 10-year projection of the expected benefit payments in Table III-G to help the Trustees in formulating an investment policy that is expected to provide an investment return that meets both the short- and long-term cash flow needs of the pension plan.

Another source of risk is demographic experience. This is the risk that participants will receive salary increases that are different than the amount assumed, that participants will retire, become disabled, or terminate their employment at a rate that is different than assumed, and that participants will live longer than assumed, just to cite a few examples of the demographic risk faced by the plan. Although for most pension plans, the demographic risk is not as significant as the investment risk, particularly in light of the fact that the mortality assumption includes a component for future life expectancy increases, the demographic risk can nevertheless be a significant contributing factor to liabilities and contribution rates that become higher than anticipated.

A third source of risk is the risk that the plan sponsor (or other contributing entities) will not make, or will not have the ability to make, the contributions that are required to keep the plan funded at a sufficient level. Material changes in the number of covered employees, covered payroll, and, in some cases, hours worked by active participants can also significantly impact the plan's liabilities and the level of contributions received by the plan.



Finally, an actuarial funding method has been used to allocate the gap between projected liabilities and assets to each year in the future. The contribution rate under some funding methods is higher during the early years of the plan and then is lower during the later years of the plan. Other funding methods provide for lower contribution rates initially, with increasing contribution rates over time.

The Trustees have adopted the frozen initial liability funding method for this plan, which is expected to result in a contribution rate that decreases over time as a percentage of payroll. A brief description of the actuarial funding method is provided in Table IV-A.

Contents of the Report

Tables I-D through I-G provide a detailed breakdown of various liability amounts by type of benefit and by participant group. Tables II-A through II-F provide information concerning the assets of the trust fund. Specifically, Table II-A shows the development of the actuarial value of assets, which is based on the market value of assets. Tables III-A through III-G provide statistical information concerning the plan's participant population. In particular, Table III-G gives a 10-year projection of the cash that is expected to be required from the trust fund in order to pay benefits to the current group of participants. Finally, Tables IV-A through V-B provide a summary of the actuarial assumptions and methods that are used to value the plan's benefits and of the relevant plan provisions as of October 1, 2020, as well as a summary of the changes that have occurred since the previous valuation report was prepared.

Certification

This actuarial valuation was prepared by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate and, in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material change in plan costs or required contribution rates have been taken into account in the valuation.

For the firm,



Charles T. Carr
Consulting Actuary
Southern Actuarial Services Company, Inc.

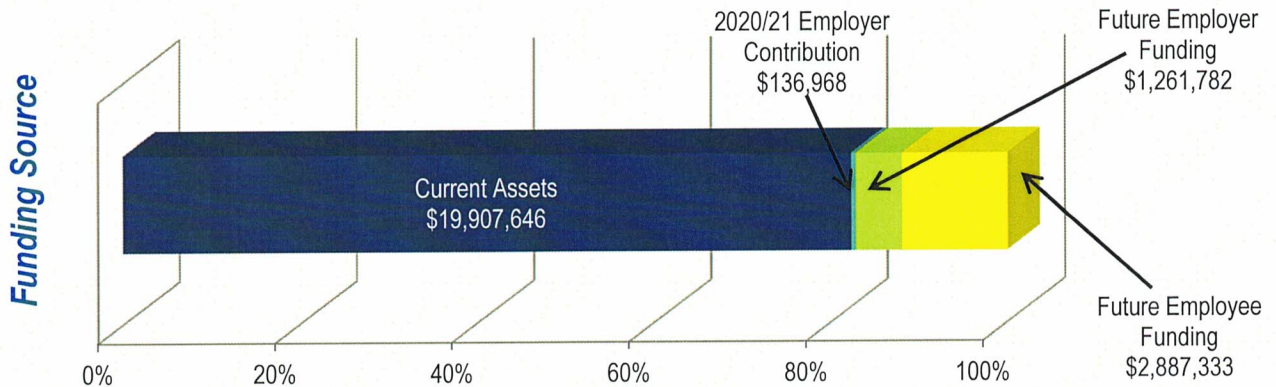
Enrolled Actuary No. 20-04927

The individual above is 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.



Minimum Required Contribution

Table I-A



For the 2020/21 Plan Year

Normal Cost for the 2020/21 Plan Year	\$36,508
Unfunded Liability Amortization Payment for the 2020/21 Plan Year	\$44,214
Expense Allowance for the 2020/21 Plan Year	\$51,529
	<hr/>
	\$132,251
Adjustment to Reflect Semi-Monthly Employer Contributions	\$4,717
	<hr/>
Preliminary Employer Contribution for the 2020/21 Plan Year	\$136,968
Expected Payroll for the 2020/21 Plan Year	÷ \$2,944,531

Minimum Required Contribution Rate **4.65%**

(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the year.)

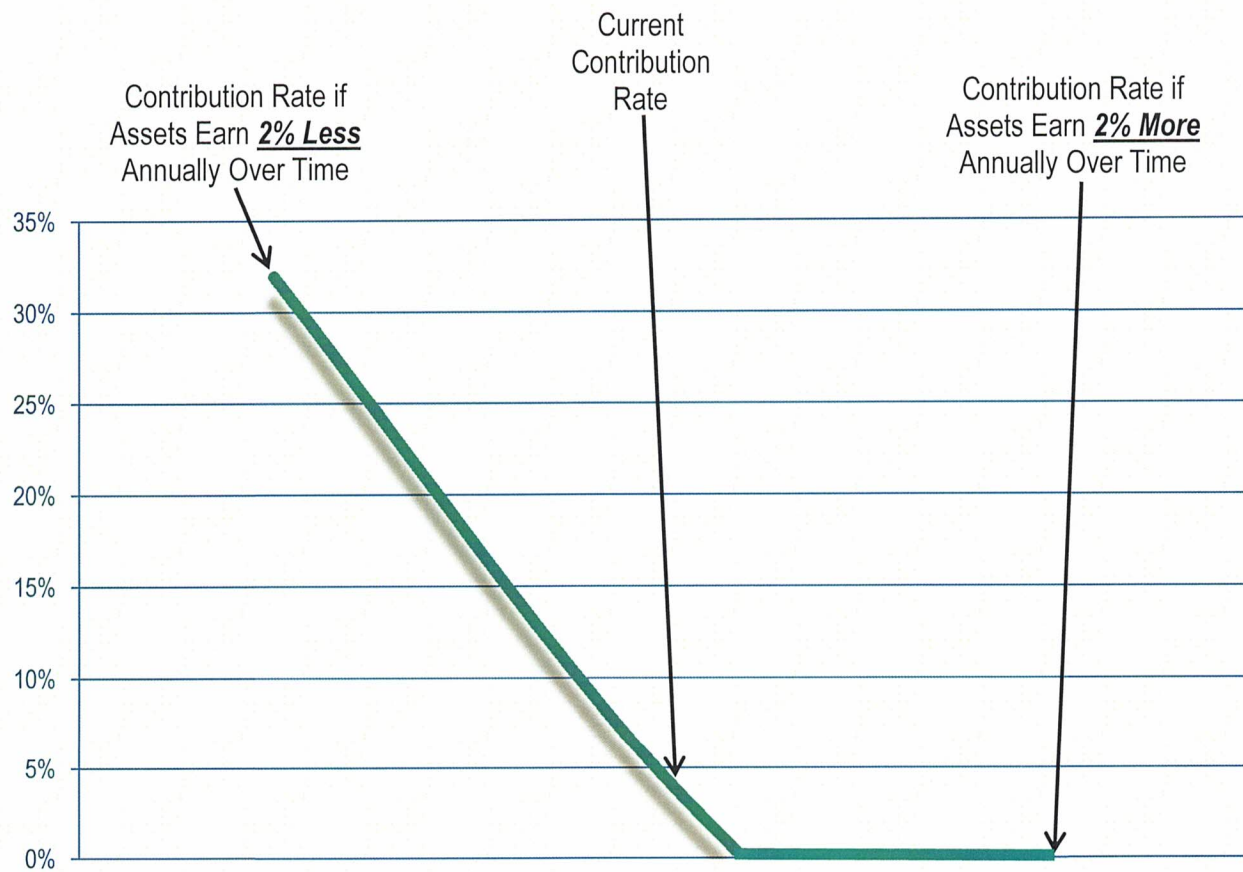
Additional Disclosures

Present Value of Future Compensation	\$28,873,330
Present Value of Future Employer Contributions	\$1,398,750
Present Value of Future Employee Contributions	\$2,887,333



Sensitivity Analysis

Table I-B



The line above illustrates the sensitivity of the contribution rate to changes in the long-term investment return.



Gain and Loss Analysis

Table I-C

Source of Change in the Contribution Rate

Previous minimum required contribution rate	4.98%
Increase (decrease) due to investment gains and losses	0.20%
Increase (decrease) due to demographic experience	-0.90%
Increase (decrease) due to plan amendments	0.00%
Increase (decrease) due to actuarial assumption changes	0.37%
Increase (decrease) due to actuarial method changes	0.00%
Current minimum required contribution rate	<u>4.65%</u>

Source of Change in the Unfunded Liability

Previous unfunded liability	\$847,034
Increase due to employer normal cost and expenses	\$81,173
Increase due to interest on normal cost and unfunded liability	\$64,974
Decrease due to employer contributions	(\$160,430)
Decrease due to interest on employer contributions	(\$5,680)
Expected unfunded liability	<u>\$827,071</u>
Increase (decrease) due to plan amendments	\$0
Increase (decrease) due to actuarial assumption changes	(\$291,592)
Increase (decrease) due to actuarial method changes	\$0
Current unfunded liability	<u>\$535,479</u>



Present Value of Future Benefits

Table I-D

	Old Assumptions <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<u>Actively Employed Participants</u>			
Retirement benefits	\$12,778,967	\$12,778,967	\$12,572,441
Termination benefits	\$387,709	\$387,709	\$374,422
Disability benefits	\$556,732	\$556,732	\$509,352
Death benefits	\$281,444	\$281,444	\$299,059
Refund of employee contributions	\$298,335	\$298,335	\$304,590
Sub-total	\$14,303,187	\$14,303,187	\$14,059,864
<u>Deferred Vested Participants</u>			
Retirement benefits	\$520,949	\$520,949	\$496,032
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$6,776	\$6,776	\$9,284
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$527,725	\$527,725	\$505,316
<u>Due a Refund of Contributions</u>	\$66,944	\$66,944	\$66,944
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
<u>Retired Participants</u>			
Service retirements	\$8,205,623	\$8,205,623	\$8,126,975
Disability retirements	\$229,282	\$229,282	\$188,736
Beneficiaries receiving	\$761,312	\$761,312	\$740,611
DROP participants	\$0	\$0	\$0
Sub-total	\$9,196,217	\$9,196,217	\$9,056,322
<u>Grand Total</u>	<u>\$24,094,073</u>	<u>\$24,094,073</u>	<u>\$23,688,446</u>
Present Value of Future Payroll	\$28,898,084	\$28,898,084	\$28,873,330
Present Value of Future Employee Contribs.	\$2,889,807	\$2,889,807	\$2,887,333
Present Value of Future Employer Contribs.	\$1,802,336	\$1,802,336	\$1,398,750



Present Value of Accrued Benefits

Table I-E

	Old Assumptions <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<i><u>Actively Employed Participants</u></i>			
Retirement benefits	\$4,370,413	\$4,370,413	\$4,299,518
Termination benefits	\$142,887	\$142,887	\$138,270
Disability benefits	\$350,469	\$350,469	\$320,793
Death benefits	\$148,217	\$148,217	\$160,644
Refund of employee contributions	\$108,078	\$108,078	\$110,476
Sub-total	\$5,120,064	\$5,120,064	\$5,029,701
<i><u>Deferred Vested Participants</u></i>			
Retirement benefits	\$520,949	\$520,949	\$496,032
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$6,776	\$6,776	\$9,284
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$527,725	\$527,725	\$505,316
<i><u>Due a Refund of Contributions</u></i>	\$66,944	\$66,944	\$66,944
<i><u>Deferred Beneficiaries</u></i>	\$0	\$0	\$0
<i><u>Retired Participants</u></i>			
Service retirements	\$8,205,623	\$8,205,623	\$8,126,975
Disability retirements	\$229,282	\$229,282	\$188,736
Beneficiaries receiving	\$761,312	\$761,312	\$740,611
DROP participants	\$0	\$0	\$0
Sub-total	\$9,196,217	\$9,196,217	\$9,056,322
<i><u>Grand Total</u></i>	<u>\$14,910,950</u>	<u>\$14,910,950</u>	<u>\$14,658,283</u>
<i><u>Funded Percentage</u></i>	135.52%	135.52%	137.85%

(Note: Funded percentage is equal to the ratio of the usable portion of the market value of assets divided by the present value of accrued benefits.)



Present Value of Vested Benefits

Table I-F

	Old Assumptions <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<u>Actively Employed Participants</u>			
Retirement benefits	\$4,326,949	\$4,326,949	\$4,256,822
Termination benefits	\$103,664	\$103,664	\$100,789
Disability benefits	\$350,469	\$350,469	\$320,793
Death benefits	\$144,091	\$144,091	\$156,210
Refund of employee contributions	\$129,485	\$129,485	\$131,299
Sub-total	\$5,054,658	\$5,054,658	\$4,965,913
<u>Deferred Vested Participants</u>			
Retirement benefits	\$520,949	\$520,949	\$496,032
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$6,776	\$6,776	\$9,284
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$527,725	\$527,725	\$505,316
<u>Due a Refund of Contributions</u>	\$66,944	\$66,944	\$66,944
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
<u>Retired Participants</u>			
Service retirements	\$8,205,623	\$8,205,623	\$8,126,975
Disability retirements	\$229,282	\$229,282	\$188,736
Beneficiaries receiving	\$761,312	\$761,312	\$740,611
DROP participants	\$0	\$0	\$0
Sub-total	\$9,196,217	\$9,196,217	\$9,056,322
<u>Grand Total</u>	<u>\$14,845,544</u>	<u>\$14,845,544</u>	<u>\$14,594,495</u>



Entry Age Normal Accrued Liability

Table I-G

	Old Assumptions <u>w/o Amendment</u>	Old Assumptions <u>w/ Amendment</u>	New Assumptions <u>w/ Amendment</u>
<u>Actively Employed Participants</u>			
Retirement benefits	\$7,100,958	\$7,100,958	\$6,992,652
Termination benefits	\$181,071	\$181,071	\$175,404
Disability benefits	\$327,116	\$327,116	\$298,831
Death benefits	\$168,772	\$168,772	\$178,958
Refund of employee contributions	\$142,958	\$142,958	\$145,742
Sub-total	\$7,920,875	\$7,920,875	\$7,791,587
<u>Deferred Vested Participants</u>			
Retirement benefits	\$520,949	\$520,949	\$496,032
Termination benefits	\$0	\$0	\$0
Disability benefits	\$0	\$0	\$0
Death benefits	\$6,776	\$6,776	\$9,284
Refund of employee contributions	\$0	\$0	\$0
Sub-total	\$527,725	\$527,725	\$505,316
<u>Due a Refund of Contributions</u>	\$66,944	\$66,944	\$66,944
<u>Deferred Beneficiaries</u>	\$0	\$0	\$0
<u>Retired Participants</u>			
Service retirements	\$8,205,623	\$8,205,623	\$8,126,975
Disability retirements	\$229,282	\$229,282	\$188,736
Beneficiaries receiving	\$761,312	\$761,312	\$740,611
DROP participants	\$0	\$0	\$0
Sub-total	\$9,196,217	\$9,196,217	\$9,056,322
<u>Grand Total</u>	<u>\$17,711,761</u>	<u>\$17,711,761</u>	<u>\$17,420,169</u>



Unfunded Liability Bases

Table I-H

<u>Description</u>	<u>Original Amount</u>	<u>Outstanding Balance</u>	<u>Amortization Payment</u>	<u>Years Rem.</u>
	Total	\$535,479	\$44,214	
		↓	↓	
10/1/2014 Assumption Change	\$818,450	\$251,545	\$20,856	24
10/1/2016 Assumption Change	\$628,448	\$200,142	\$16,051	26
10/1/2018 Plan Amendment	\$389,386	\$375,384	\$29,268	28
10/1/2020 Assumption Change	(\$291,592)	(\$291,592)	(\$21,961)	30



Development of the Normal Cost

Table I-I

Normal Cost as of October 1, 2020

Present Value of Future Benefits	\$23,688,446
Unfunded Frozen Liability	(\$535,479)
Actuarial Value of Assets	(\$19,907,646)
Present Value of Future Employee Contributions	(\$2,887,333)
Present Value of Future Normal Cost	<u>\$357,988</u>
Present Value of Future Compensation	<u>÷ \$28,873,330</u>
Normal Cost Accrual Rate	1.239857%
Expected Payroll for the Current Year	<u>x \$2,944,531</u>
Normal Cost	<u><u>\$36,508</u></u>



Actuarial Value of Assets

Table II-A

Market Value of Assets as of October 1, 2020 \$20,206,933

Minus advance employer contributions (\$299,287)

Actuarial Value of Assets as of October 1, 2020 \$19,907,646

Historical Actuarial Value of Assets

October 1, 2011	\$11,767,746
October 1, 2012	\$13,794,913
October 1, 2013	\$15,043,906
October 1, 2014	\$15,916,800
October 1, 2015	\$15,159,423
October 1, 2016	\$15,931,492
October 1, 2017	\$17,687,189
October 1, 2018	\$18,555,934
October 1, 2019	\$19,048,717
October 1, 2020	\$19,907,646

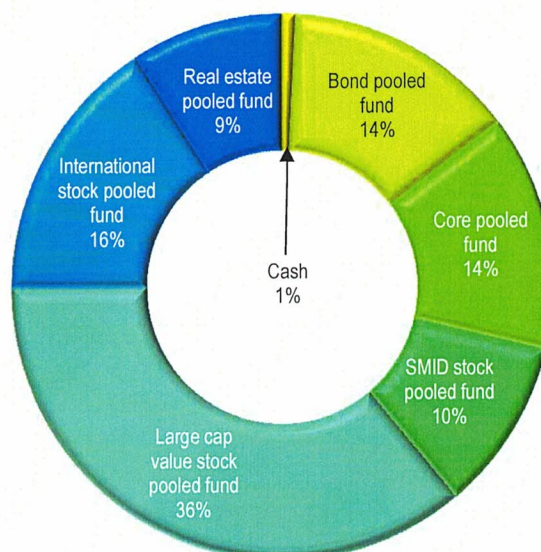


Market Value of Assets

Table II-B

As of October 1, 2020

Market Value of Assets	<u>\$20,206,933</u>
Cash	\$161,655
Bond pooled fund	\$2,808,764
Core pooled fund	\$2,828,971
SMID stock pooled fund	\$2,061,107
Large cap value stock pooled fund	\$7,294,703
International stock pooled fund	\$3,212,902
Real estate pooled fund	\$1,838,831

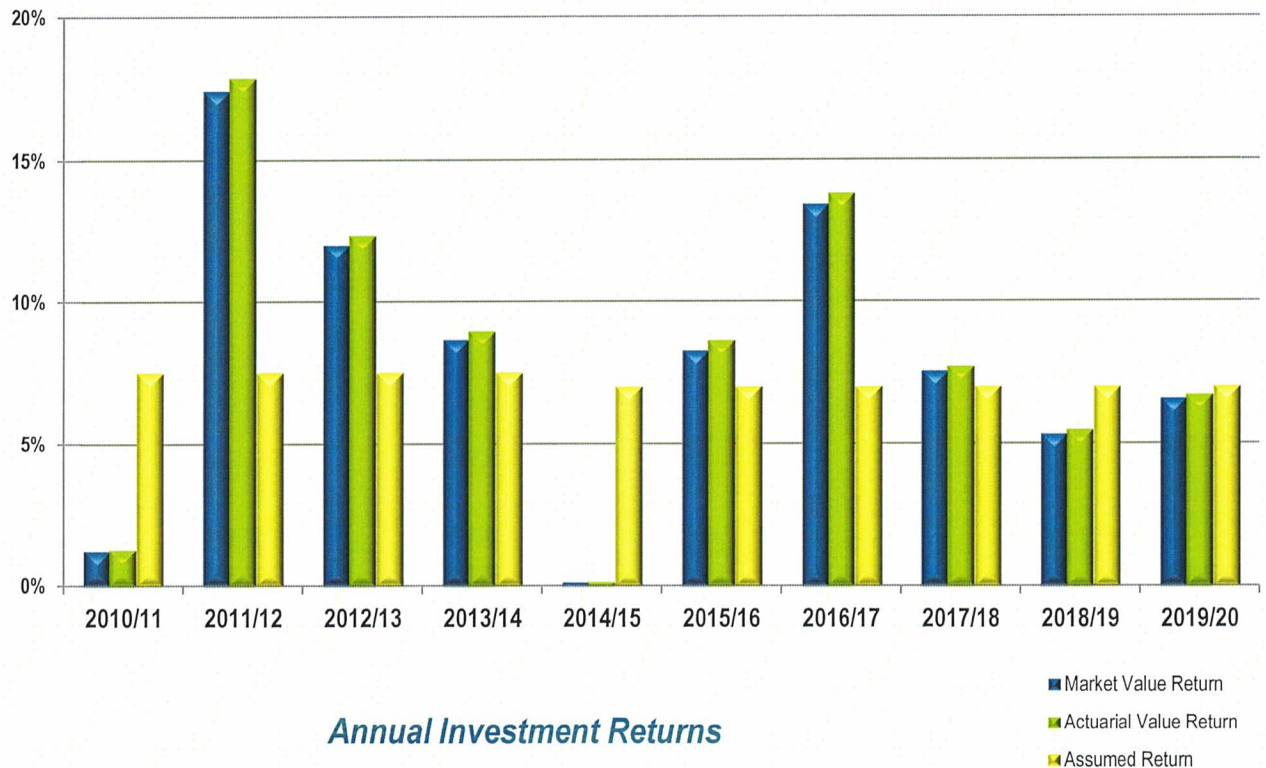
Historical Market Value of Assets

October 1, 2011	\$12,109,219
October 1, 2012	\$14,064,331
October 1, 2013	\$15,497,413
October 1, 2014	\$16,490,294
October 1, 2015	\$15,880,274
October 1, 2016	\$16,469,897
October 1, 2017	\$18,027,396
October 1, 2018	\$19,010,433
October 1, 2019	\$19,503,651
October 1, 2020	\$20,206,933



Investment Return

Table II-C

*Annual Investment Returns*

Plan Year	Market Value Return	Actuarial Value Return	Assumed Return
2010/11	1.24%	1.28%	7.50%
2011/12	17.43%	17.88%	7.50%
2012/13	12.02%	12.34%	7.50%
2013/14	8.65%	8.95%	7.50%
2014/15	0.13%	0.14%	7.00%
2015/16	8.26%	8.61%	7.00%
2016/17	13.42%	13.80%	7.00%
2017/18	7.53%	7.71%	7.00%
2018/19	5.34%	5.47%	7.00%
2019/20	6.57%	6.70%	7.00%
10yr. Avg.	7.94%	8.17%	7.20%



Asset Reconciliation

Table II-D

	<u>Market Value</u>	<u>Actuarial Value</u>
As of October 1, 2019	\$19,503,651	\$19,048,717
<i>Increases Due To:</i>		
Employer Contributions	\$4,783	\$4,783
Employee Contributions	\$322,149	\$322,149
Service Purchase Contributions	\$0	\$0
Total Contributions	<u>\$326,932</u>	<u>\$326,932</u>
Interest and Dividends	\$0	
Realized Gains (Losses)	\$0	
Unrealized Gains (Losses)	\$1,263,532	
Total Investment Income	<u>\$1,263,532</u>	\$1,263,532
Other Income	\$0	
Total Income	<u>\$1,590,464</u>	<u>\$1,590,464</u>
<i>Decreases Due To:</i>		
Monthly Benefit Payments	(\$766,152)	(\$766,152)
Refund of Employee Contributions	(\$78,299)	(\$78,299)
Total Benefit Payments	<u>(\$844,451)</u>	<u>(\$844,451)</u>
Investment Expenses	\$0	
Administrative Expenses	(\$42,731)	(\$42,731)
Advance Employer Contribution		\$155,647
Total Expenses	<u>(\$887,182)</u>	<u>(\$731,535)</u>
As of October 1, 2020	<u><u>\$20,206,933</u></u>	<u><u>\$19,907,646</u></u>



Historical Trust Fund Detail

Table II-E

Income

Plan	Employer	Employee	Service	Interest /	Realized	Unrealized	Other
<u>Year</u>	<u>Contribs.</u>	<u>Contribs.</u>	<u>Purchase</u>	<u>Dividends</u>	<u>Gains /</u>	<u>Gains /</u>	<u>Income</u>
			<u>Contribs.</u>		<u>Losses</u>	<u>Losses</u>	
2010/11	\$339,900	\$280,489	\$0	\$0	\$0	\$148,240	\$0
2011/12	\$351,847	\$266,773	\$0	\$0	\$0	\$2,098,149	\$0
2012/13	\$308,530	\$233,913	\$0	\$0	\$0	\$1,675,534	\$0
2013/14	\$256,383	\$256,383	\$0	\$0	\$0	\$1,326,542	\$0
2014/15	\$262,201	\$262,201	\$0	\$0	\$0	\$21,494	\$0
2015/16	\$13,515	\$271,126	\$0	\$0	\$0	\$1,283,244	\$0
2016/17	\$0	\$277,978	\$0	\$0	\$0	\$2,169,961	\$0
2017/18	\$208,949	\$293,056	\$0	\$0	\$0	\$1,344,711	\$0
2018/19	\$133,519	\$304,838	\$0	\$0	\$0	\$1,001,891	\$0
2019/20	\$4,783	\$322,149	\$0	\$0	\$0	\$1,263,532	\$0

Expenses

Plan	Monthly	Contrib.	Admin.	Invest.
<u>Year</u>	<u>Benefit</u>	<u>Refunds</u>	<u>Expenses</u>	<u>Expenses</u>
	<u>Payments</u>			
2010/11	\$472,182	\$119,773	\$41,132	\$0
2011/12	\$475,629	\$245,782	\$40,246	\$0
2012/13	\$536,433	\$201,342	\$47,120	\$0
2013/14	\$775,288	\$40,979	\$30,160	\$0
2014/15	\$895,803	\$212,360	\$47,753	\$0
2015/16	\$835,033	\$94,106	\$49,123	\$0
2016/17	\$744,588	\$104,812	\$41,040	\$0
2017/18	\$729,980	\$84,732	\$48,967	\$0
2018/19	\$795,324	\$107,908	\$43,798	\$0
2019/20	\$766,152	\$78,299	\$42,731	\$0

Other Actuarial Adjustments

Advance
Employer
<u>Contribs.</u>
-\$30,065
-\$72,055
\$184,089
\$119,987
\$147,357
-\$182,446
-\$198,198
\$114,292
\$435
-\$155,647

Note: Information was not available to separate the investment expenses from the investment income nor was information available to separate the investment income by source.



Other Reconciliations

Table II-F

Advance Employer Contribution

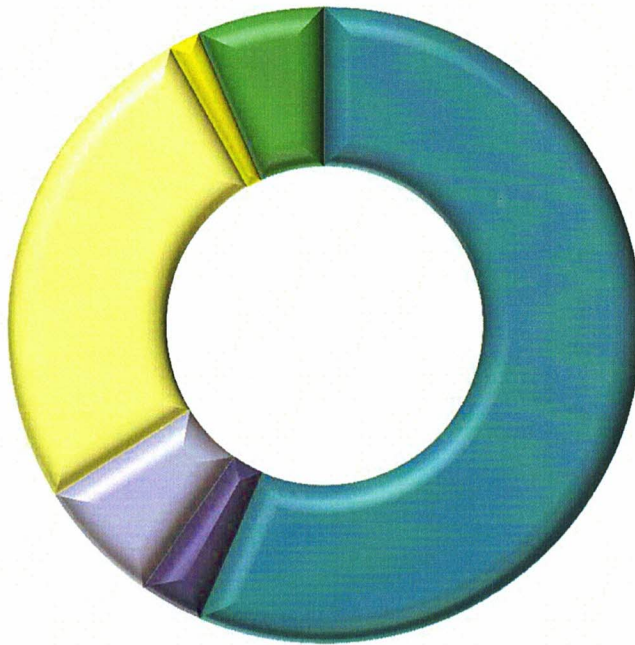
Advance Employer Contribution as of October 1, 2019	\$454,934
Additional Employer Contribution	\$4,783
Minimum Required Contribution	<u>(\$160,430)</u>
Net Increase in Advance Employer Contribution	<u>(\$155,647)</u>
Advance Employer Contribution as of October 1, 2020	<u><u>\$299,287</u></u>



Summary of Participant Data

Table III-A

As of October 1, 2020



Participant Distribution by Status

Actively Employed Participants

Active Participants	70
DROP Participants	0

Inactive Participants

Deferred Vested Participants	4
Due a Refund of Contributions	8
Deferred Beneficiaries	0

Participants Receiving a Benefit

Service Retirements	32
Disability Retirements	2
Beneficiaries Receiving	8

Total Participants 124

Number of Participants Included in Prior Valuations

	Active	DROP	Inactive	Retired	Total
October 1, 2011	69	0	11	34	114
October 1, 2012	62	0	14	36	112
October 1, 2013	N/A	N/A	N/A	N/A	N/A
October 1, 2014	69	0	14	43	126
October 1, 2015	70	0	12	43	125
October 1, 2016	69	0	15	42	126
October 1, 2017	68	0	13	41	122
October 1, 2018	71	0	11	42	124
October 1, 2019	69	0	10	40	119
October 1, 2020	70	0	12	42	124



Data Reconciliation

Table III-B

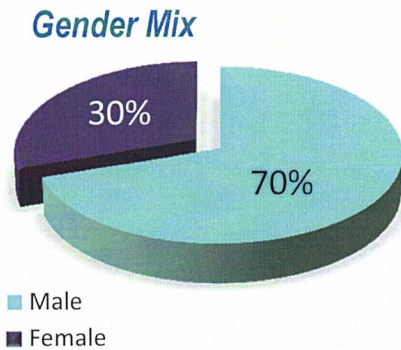
	<u>Active</u>	<u>DROP</u>	<u>Deferred Vested</u>	<u>Due a Refund</u>	<u>Def. Benef.</u>	<u>Service Retiree</u>	<u>Disabled Retiree</u>	<u>Benef. Rec'v.</u>	<u>Total</u>
<u>October 1, 2019</u>	69	0	3	7	0	30	2	8	119
<u>Change in Status</u>									
Re-employed									
Terminated	(11)		1	10					
Retired	(2)					2			
<u>Participation Ended</u>									
Transferred Out									
Cashed Out				(9)					(9)
Died									
<u>Participation Began</u>									
Newly Hired	14								14
Transferred In									
New Beneficiary									
<u>Other Adjustment</u>									
<u>October 1, 2020</u>	70	0	4	8	0	32	2	8	124



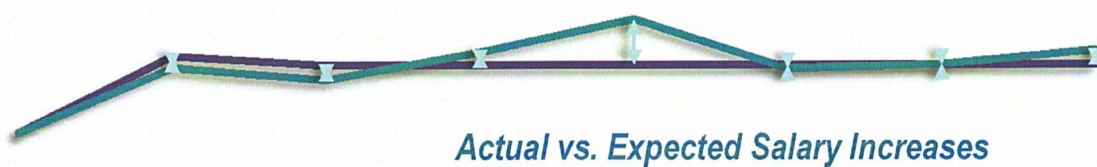
Active Participant Data

Table III-C

As of October 1, 2020



Average Age	40.1 years
Average Service	6.9 years
Total Annualized Compensation for the Prior Year	\$3,055,585
Total Expected Compensation for the Current Year	\$2,944,531
Average Increase in Compensation for the Prior Year	6.08%
Expected Increase in Compensation for the Current Year	5.00%
Accumulated Contributions for Active Employees	\$2,075,112

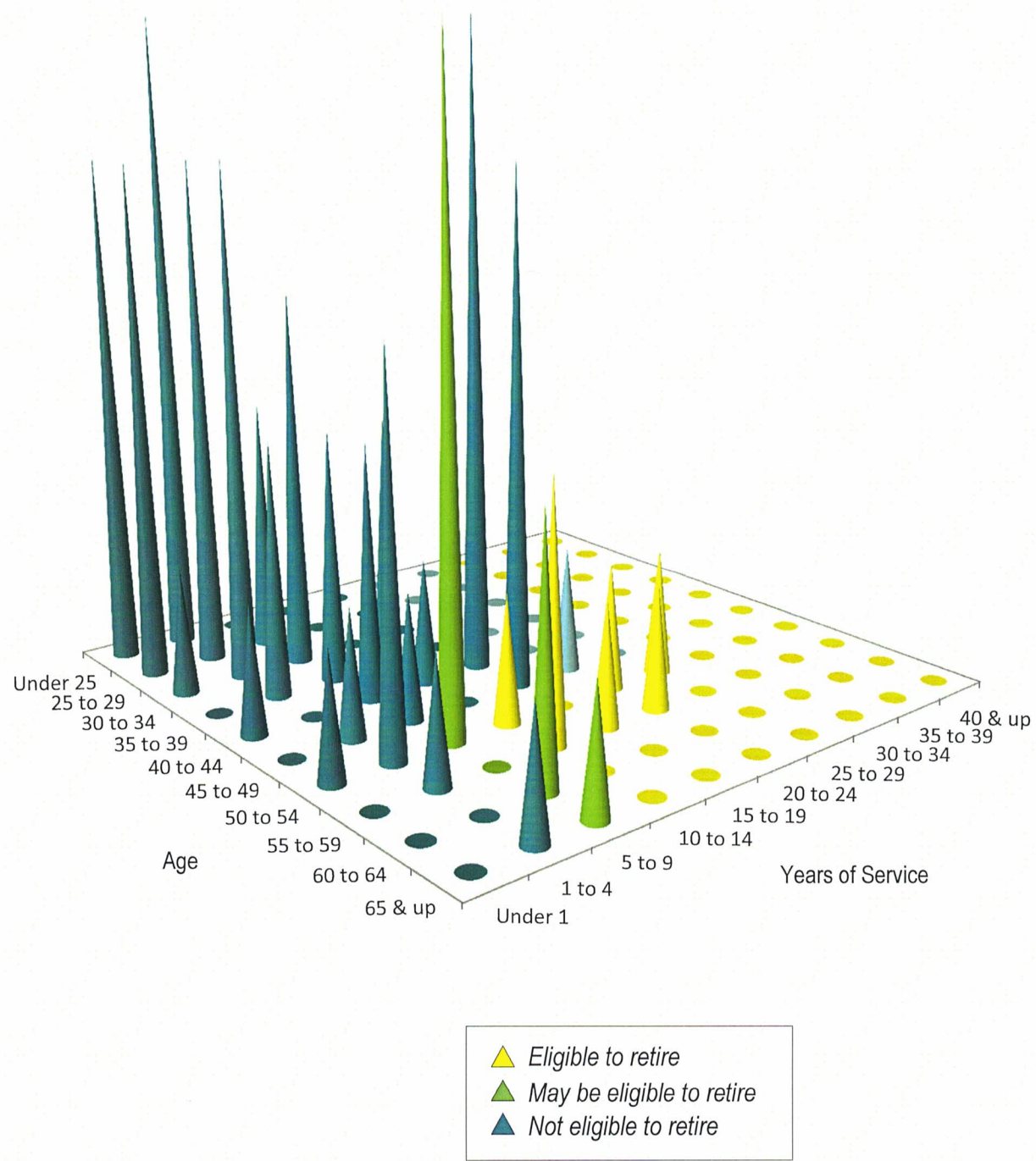
Active Participant Statistics From Prior Valuations

	Average Age	Average Service	Average Salary	Average Expected Salary Increase	Average Actual Salary Increase
October 1, 2011	43.0	8.2	\$39,440	5.95%	6.03%
October 1, 2012	43.3	8.6	\$37,346	5.83%	-2.92%
October 1, 2013	N/A	N/A	N/A	N/A	N/A
October 1, 2014	38.6	5.9	\$36,600	5.74%	4.86%
October 1, 2015	38.5	5.6	\$36,593	5.00%	3.91%
October 1, 2016	37.9	5.9	\$37,060	5.00%	5.98%
October 1, 2017	39.4	6.4	\$39,926	5.00%	8.45%
October 1, 2018	39.7	6.5	\$40,509	5.00%	4.73%
October 1, 2019	40.7	7.3	\$42,549	5.00%	5.05%
October 1, 2020	40.1	6.9	\$43,651	5.00%	6.08%



Active Age-Service Distribution

Table III-D



Active Age-Service-Salary Table

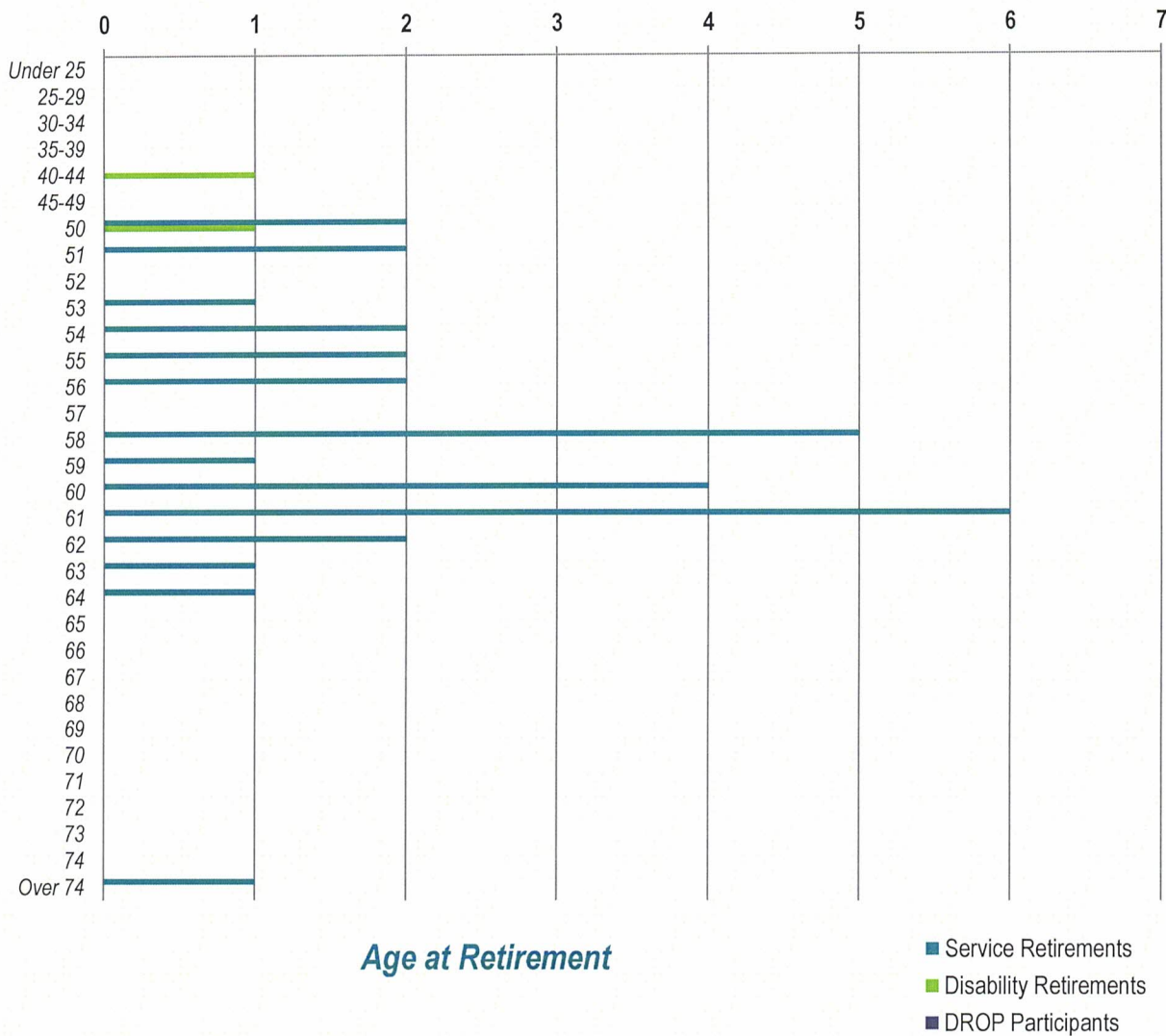
Table III-E

Attained Age	Completed Years of Service										Total
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up	
Under 25	4	5	0	0	0	0	0	0	0	0	9
Avg. Pay	28,734	31,753	0	0	0	0	0	0	0	0	30,411
25 to 29	4	4	2	0	0	0	0	0	0	0	10
Avg. Pay	30,408	35,142	41,958	0	0	0	0	0	0	0	34,612
30 to 34	1	4	3	0	0	0	0	0	0	0	8
Avg. Pay	19,546	36,141	50,742	0	0	0	0	0	0	0	39,542
35 to 39	0	2	2	2	0	0	0	0	0	0	6
Avg. Pay	0	43,925	48,625	40,891	0	0	0	0	0	0	44,480
40 to 44	1	0	2	1	5	0	0	0	0	0	9
Avg. Pay	39,707	0	44,291	60,551	64,216	0	0	0	0	0	56,657
45 to 49	0	1	1	0	4	1	0	0	0	0	7
Avg. Pay	0	30,231	31,206	0	50,122	48,760	0	0	0	0	44,384
50 to 54	1	3	5	1	0	1	1	0	0	0	12
Avg. Pay	38,114	44,745	55,895	45,734	0	74,323	40,257	0	0	0	51,011
55 to 59	0	1	0	2	1	1	0	0	0	0	5
Avg. Pay	0	46,091	0	34,363	37,996	42,098	0	0	0	0	38,982
60 to 64	0	0	2	0	0	0	0	0	0	0	2
Avg. Pay	0	0	73,322	0	0	0	0	0	0	0	73,322
65 & up	0	1	1	0	0	0	0	0	0	0	2
Avg. Pay	0	54,972	23,289	0	0	0	0	0	0	0	39,131
Total	11	21	18	6	10	3	1	0	0	0	70
Avg. Pay	30,358	37,965	50,144	42,799	55,956	55,060	40,257	0	0	0	43,651



Inactive Participant Data

Table III-F



Age at Retirement

- Service Retirements
- Disability Retirements
- DROP Participants

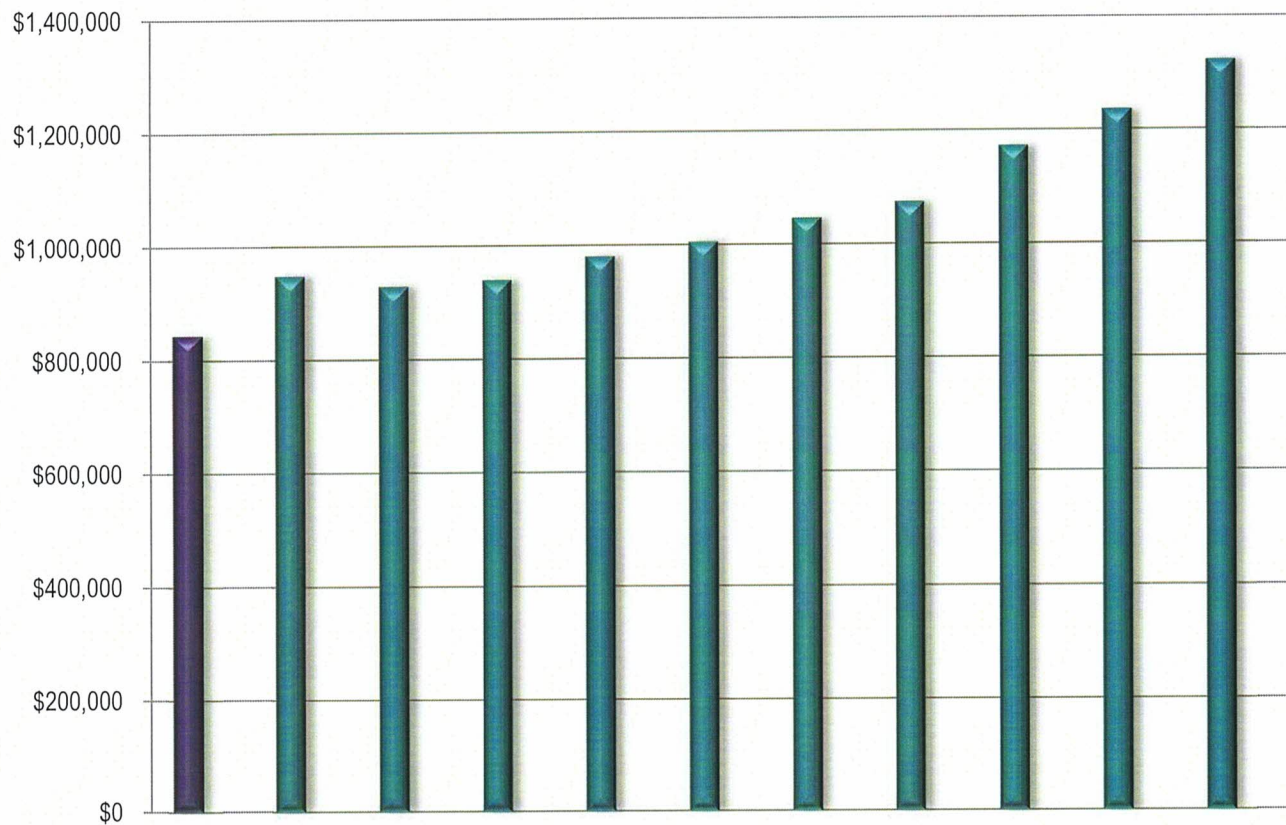
Average Monthly Benefit

Service Retirements	\$1,877.38
Disability Retirements	\$858.15
Beneficiaries Receiving	\$807.19
DROP Participants	Not applicable
Deferred Vested Participants	\$1,255.64
Deferred Beneficiaries	Not applicable



Projected Benefit Payments

Table III-G

Actual

For the period October 1, 2019 through September 30, 2020

\$844,451

Projected

For the period October 1, 2020 through September 30, 2021

\$949,007

For the period October 1, 2021 through September 30, 2022

\$930,410

For the period October 1, 2022 through September 30, 2023

\$941,332

For the period October 1, 2023 through September 30, 2024

\$981,400

For the period October 1, 2024 through September 30, 2025

\$1,006,862

For the period October 1, 2025 through September 30, 2026

\$1,047,892

For the period October 1, 2026 through September 30, 2027

\$1,075,050

For the period October 1, 2027 through September 30, 2028

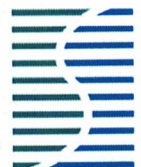
\$1,172,782

For the period October 1, 2028 through September 30, 2029

\$1,236,421

For the period October 1, 2029 through September 30, 2030

\$1,323,374



Summary of Actuarial Methods and Assumptions

Table IV-A

NOTE: The following assumptions and methods have been selected and approved by the Board of Trustees based in part on the advice of the plan's enrolled actuary in accordance with the authority granted to the Board under the pension ordinances and State law.

1. **Actuarial Cost Method**

Frozen initial liability cost method. Under this actuarial cost method, an unfunded liability is developed at the inception of the plan using the individual entry age normal cost method. Over time, this unfunded liability is adjusted to reflect changes in the entry age normal accrued liability due to plan amendments and changes in actuarial assumptions and methods. The employer makes a periodic contribution towards the unfunded liability which is intended to eliminate the unfunded liability over a pre-determined period. In addition, each year the total projected liability in excess of the unfunded liability, accumulated assets, and future employee contributions is divided by the present value of future compensation to develop a level funding percentage for the plan as a whole. The level funding percentage is then multiplied by the covered payroll for the year immediately following the valuation date to determine the normal cost for that year.

2. **Amortization Method**

The unfunded actuarial accrued liability is amortized as a level dollar amount over a period of up to 30 years.

3. **Asset Method**

The actuarial value of assets is equal to the market value of assets.

4. **Interest (or Discount) Rate**

7.00% per annum

5. **Salary Increases**

Plan compensation is assumed to increase at the rate of 5.00% per annum, unless actual plan compensation is known for a prior plan year. In addition, all pay-related benefits other than disability benefits have been loaded by 5.00% to reflect anticipated accumulated sick leave and vacation pay.

6. **Decrement**

- Pre-retirement mortality: Sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Below Median Employee Mortality Table for general employees, with full generational improvements in mortality using Scale MP-2018 and with male ages set back one year (*applicable to general employees*)



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

- Sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Employee Mortality Table for public safety employees (Below Median table for males), with full generational improvements in mortality using Scale MP-2018 and with ages set forward one year (*applicable to police officers*)
- Post-retirement mortality: Sex-distinct rates set forth in the PUB-2010 Headcount-Weighted Below Median Healthy Retiree Mortality Table for general employees, with full generational improvements in mortality using Scale MP-2018 and with male ages set back one year
 - Disability:

For police officers, age- and gender-based rates of disability were assumed, ranging from 0.179% for males and 0.075% for females at age 25, 0.290% for males and 0.096% for females at age 35, 0.795% for males and 0.162% for females at age 45, and 1.030% for males and 0.040% for females at age 55; 80% of such disabilities are assumed to be service-related.

For all other participants, age- and gender-based rates of disability were assumed, ranging from 0.075% for males and 0.035% for females at age 25, 0.096% for males and 0.054% for females at age 35, 0.162% for males and 0.085% for females at age 45, and 0.400% for males and 0.180% for females at age 55; 20% of such disabilities are assumed to be service-related.
 - Termination:

For police officers, the termination rates are age-based, ranging from 5.00% at age 25, 3.00% at age 35, and 0.00% at age 45. For all other participants, the termination rates are age-based, ranging from 7.10% at age 25, 4.20% at age 35, 1.80% at age 45, 0.80% at age 55, and 0.00% at age 60.
 - Retirement:

For police officers, 20% are assumed to retire at each of ages 55 through 57, 30% are assumed to retire at each of ages 58 and 59, and 100% are assumed to retire at age 60. For all other participants, 10% are assumed to retire at each of ages 55 through 59 and 100% are assumed to retire at age 60. Regardless of the foregoing, participants who have earned at least 30 years of service are assumed to retire immediately and deferred vested participants are assumed to wait until their normal retirement age to commence receipt of their benefit.



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

7. Form of Payment

Future married retirees have been assumed to select the 50% joint and contingent annuity; future unmarried police retirees have been assumed to select the 10-year certain and life annuity; all other future unmarried retirees have been assumed to select the single life annuity.

8. Marriage Assumption

80% of non-retired participants are assumed to be married, with husbands three years older than wives.

9. Expenses

Administrative expenses are assumed to be 1.75% of covered payroll. In addition, the interest rate set forth in item 4. above is assumed to be net of investment expenses and commissions.



Changes in Actuarial Methods and Assumptions

Table IV-B

Since the completion of the previous valuation, the mortality basis was changed from the RP-2000 Combined Mortality Table with generational improvements in mortality using Scale BB to selected PUB-2010 Mortality Tables with generational improvements in mortality using Scale MP-2018.

The following additional assumption and method changes were made during the past 10 years:

- (1) Effective October 1, 2016, the mortality basis was changed from a 2015 projection of the RP-2000 Mortality Table for annuitants to a full generational projection using Scale BB of the RP-2000 Combined Mortality Table as required by State law.*
- (2) Effective October 1, 2014, the assumed interest (or discount) rate was decreased from 7.50% per annum to 7.00% per annum.*
- (3) Effective October 1, 2014, the assumed increase in future salaries for those employees with less than five years of service was decreased from 7.40% per year to 5.00% per year.*
- (4) Effective October 1, 2014, the mortality basis was changed from the RP-2000 Mortality Table, projected to 2007 by Scale AA, to the RP-2000 Mortality Table, projected to 2015 by Scale AA.*



Summary of Plan Provisions

Table V-A

1. Monthly Accrued Benefit

2.50% of Average Final Compensation multiplied by Credited Service (up to 40 years)

2. Normal Retirement Age and Benefit

- **Age**
Age 60 with at least six years of Credited Service; or
Any age with at least 30 years of Credited Service
- **Amount**
Monthly Accrued Benefit
- **Form of Payment**
Single life annuity (normal form of payment for unmarried participants; optional for married participants);
10-year certain and life annuity (alternative normal form of payment for police officers; optional with actuarial adjustment for all other participants);
50% joint and contingent annuity (normal form of payment for married participants; optional with actuarial adjustment for all other participants); or
Actuarially equivalent lump sum distribution (automatic if the single sum value of the participant's benefit is less than or equal to \$1,000)

3. Early Retirement Age and Benefit

- **Age**
Age 50 with at least six years of Credited Service
- **Amount**
Monthly Accrued Benefit (payable at Normal Retirement Age); or
Monthly Accrued Benefit reduced by 1% for each of the first five years by which the participant's Early Retirement Age precedes age 60 and further reduced by 2% for each of the next five years by which the participant's Early Retirement Date precedes age 60 (payable at Early Retirement Age)
- **Form of Payment**
Same as for Normal Retirement



Summary of Plan Provisions

Table V-A

(continued)

4. Delayed Retirement Age and Benefit

- **Age**
After Normal Retirement Age
- **Amount**
Monthly Accrued Benefit
- **Form of Payment**
Same as for Normal Retirement

5. Deferred Vested Benefit

- **Age**
Any age with at least six years of Credited Service
- **Amount**
Monthly Accrued Benefit (payable at Normal Retirement Age); or
Monthly Accrued Benefit reduced by 1% for each of the first five years by which the participant's Early Retirement Age precedes his Normal Retirement Date and further reduced by 2% for each of the next five years by which the participant's Early Retirement Date precedes his Normal Retirement Date (payable at Early Retirement Age)
- **Form of Payment**
Same as for Normal Retirement

6. Service Incurred Disability Retirement Eligibility and Benefit

- **Eligibility**
All participants are eligible.
- **Condition**
The participant must have become disabled in the line of duty due to a sickness or injury which continuously and permanently renders him unable to perform any useful, meaningful work for the City in an available position for which he is reasonably qualified or may be reasonably trained to perform. Alternatively, a police officer must only be unable to render useful and efficient service as a police officer due to his disability. However, Disability Benefits will not be payable in cases where the disability arose as a result of excessive and habitual use of drugs, intoxicants, or narcotics or injury or disease sustained while willfully and illegally participating in fights, riots, or civil insurrections, while committing a crime, while serving in any branch of the U.S. armed forces, or while not employed by the City.



Summary of Plan Provisions

Table V-A

(continued)

- **Amount**

A monthly benefit equal to the larger of (a) or (b), as follows:

- (a) Monthly Accrued Benefit; or
- (b) 50% of Average Final Compensation (*provided that the monthly disability benefit plus monthly worker's compensation cannot exceed the average wage used to determine the worker's compensation payment*).

- **Form of Payment**

Same as for Normal Retirement

7. Non-Service Incurred Disability Retirement Eligibility and Benefit

- **Eligibility**

All participants are eligible.

- **Condition**

Same as for a Service Incurred Disability, except that the disability was not incurred in the line of duty.

- **Amount**

A monthly benefit equal to the larger of (a) or (b), as follows:

- (a) Monthly Accrued Benefit; or
- (b) 25% of Average Final Compensation (*provided that the monthly disability benefit plus monthly worker's compensation cannot exceed the average wage used to determine the worker's compensation payment*).

- **Form of Payment**

Same as for Normal Retirement

8. Pre-Retirement Death Benefits

Monthly Annuity

In the case of the death of a vested participant prior to retirement, his spouse will receive 50% of the participant's Monthly Accrued Benefit payable for life beginning at the participant's earliest retirement age or, with respect to unmarried, vested police officers, his beneficiary will receive the officer's Monthly Accrued Benefit payable for 10 years beginning at the officer's earliest retirement age. In the case of the death of a non-vested or unmarried participant prior to retirement, his beneficiary will receive the participant's Accumulated Contributions in lieu of any other benefits payable from the plan.



Summary of Plan Provisions

Table V-A

(continued)

Single Lump Sum Payment

In the case of the death of a participant prior to retirement, his beneficiary will receive \$25,000, reduced by 10% for each year of Credited Service less than 10 years.

9. Post-Retirement Death Benefit

Single Lump Sum Payment

In the case of the death of a participant after retirement, his beneficiary will receive \$25,000, reduced by 10% for each year of Credited Service less than 10 years.

10. Average Final Compensation

Average of the highest three consecutive years of Compensation out of the last 10 years of employment

11. Compensation

Regular salary or wage plus overtime pay, leave pay, bonuses, sick pay, incentive pay, and lump sum payments of accrued sick leave upon retirement; annual compensation in excess of \$200,000 (as indexed) is excluded in accordance with Internal Revenue Code (IRC) §401(a)(17).

12. Credited Service

The elapsed time from the participant's date of hire until his date of termination, retirement, or death; police officers may purchase up to five years of additional Credited Service for certain military service.

13. Participation Requirement

All full-time employees of the City of Wauchula, Florida, including the City Clerk, but excluding members of the City Council, the Mayor, and state-certified firefighters

14. Accumulated Contributions

The Employee Contributions accumulated without interest; if the participant terminates his employment with less than six years of Credited Service, he receives his Accumulated Contributions in lieu of any other benefits payable from the plan.



Summary of Plan Provisions

Table V-A

(continued)

15. Employee and Employer Contributions

All participating employees are required to contribute 10% of compensation to the plan. In addition, the City of Wauchula is required to contribute the greater of 10% of covered payroll or the contribution required pursuant to Chapter 112, Florida Statutes.

16. Supplemental Retirement Benefit

All participants who retire at age 50 or later with at least six years of Credited Service receive a \$100.00 monthly supplemental retirement benefit payable for their lifetime only.

17. Definition of Actuarially Equivalent

- **Interest Rate**
7.00% per annum
- **Mortality Table**
1983 Group Annuity Mortality Table, blended 50%/50% for males and females, and set back two years

18. Plan Effective Date

October 1, 2000

19. Cost-of-Living Adjustment

The Trustees of the plan are authorized to adopt a periodic cost-of-living adjustment (COLA) no more frequently than every other year of up to one-half of the increase in the Consumer Price Index, to a maximum COLA of 3.00%, provided that the actuary certifies that the COLA can be funded on a sound actuarial basis without increasing the level of contributions to the plan.



Summary of Plan Amendments

Table V-B

No plan amendments were adopted since the completion of the previous valuation.

The following additional plan amendments were adopted during the past 10 years and were reflected in prior valuation reports:

- (1) *Effective June 11, 2018, the plan was amended to provide a one-time 5% cost-of-living adjustment to individuals who retired prior to that date. (Ordinance 2018-05)*

