

CITY OF OAKLAND PARK
GENERAL EMPLOYEES' PENSION PLAN

ACTUARIAL VALUATION
AS OF OCTOBER 1, 2016

DETERMINES THE CONTRIBUTION
FOR THE 2017/18 FISCAL YEAR



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February 15, 2017

Introduction

This report presents the results of the October 1, 2016 actuarial valuation of the City of Oakland Park General Employees' 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, 2016 and to determine the minimum required contribution under Chapter 112, Florida Statutes, for the 2017/18 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 2017/18 plan year. The minimum required contribution is \$2,065,967, which represents an increase of \$455,580 from the prior valuation.

Table I-C provides a breakdown of the sources of change in the minimum required contribution. Significantly, the minimum required contribution increased by \$59,546 due to investment losses, increased by \$212,989 due to demographic experience, increased by \$522,278 due to the assumption change that is described below, and decreased by \$339,233 due to the method change that is described below. Although the market value of assets earned 8.76% during the 2015/16 plan year, the actuarial value of assets is based on a three-year phase-in of the



market value gains and losses that occur after September 30, 2016. On this basis, the actuarial value of assets earned 12.63% during the 2015/16 plan year, whereas a 7.50% 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 employer must contribute an amount equal to the annual normal cost of the plan plus an adjustment to reflect interest on any delayed payment of the contribution beyond the valuation date. The employer's 2017/18 minimum required contribution is equal to \$2,065,967.

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 \$48,479,130. As illustrated in Table I-A, current assets are sufficient to cover \$35,588,977 of this amount, the employer's 2016/17 contribution will cover \$1,610,387 of this amount, and the employer's 2017/18 contribution will cover \$2,065,967 of this amount, leaving \$9,213,799 to be covered by future employer funding beyond the 2017/18 fiscal year. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

BSO Employees

We have included six BSO employees who previously participated in the plan as vested employees of the City of Oakland Park. When their employment was transferred to the BSO, they were allowed to continue participating in the plan as active participants even though they receive no compensation from the City. It is our understanding that the BSO makes a contribution to the plan on behalf of these employees, where the BSO contribution is based on the contractual agreement between BSO and the City. The City should contribute the difference between the minimum required contribution and the amount of the BSO contribution.

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 a three-year phase-in of the net investment appreciation in order to provide a more stable and predictable contribution rate for the employer. 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, 2016, as well as a summary of the changes that have occurred since the previous valuation report was prepared.



Assumption and Method Changes

Pursuant to the requirements of State law, the mortality basis has been changed from a 2007 projection of the RP-2000 Mortality Table for annuitants to a full generational projection using Scale BB of the RP-2000 Combined Mortality Table. This change increased the minimum required contribution for the 2017/18 plan year by \$522,278.

In addition, the method used to determine the actuarial value of assets was changed from the market value adjusted to reflect a three-year phase-in of the net investment gains and losses to the market value adjusted to reflect a three-year phase-in of the net investment gains and losses that occur after September 30, 2016. This change decreased the minimum required contribution for the 2017/18 plan year by \$339,233.

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.

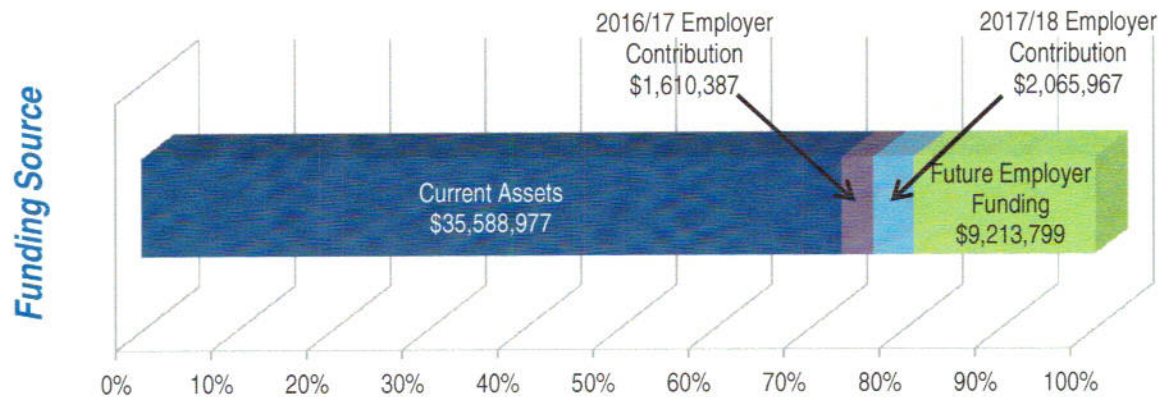
Enrolled Actuary No. 14-04927

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 2017/18 Plan Year

| | |
|---|----------------|
| Present Value of Future Benefits | \$48,181,751 |
| Present Value of Future Administrative Expenses | \$297,379 |
| Actuarial Value of Assets | (\$35,588,977) |
| Present Value of Future Employee Contributions | \$0 |
| <hr/> | |
| Present Value of Future Normal Costs | \$12,890,153 |
| Present Value of Future Payroll | ÷ \$23,790,306 |
| <hr/> | |
| Normal Cost Rate | = 54.1824% |
| Expected Payroll | x \$3,616,327 |
| <hr/> | |
| Normal Cost | \$1,959,412 |
| Adjustment to Reflect Semi-Monthly Employer Contributions | \$74,770 |
| Expected Employer Contribution for the 2016/17 Plan Year | (\$1,610,387) |
| Remaining Contribution Due/(Credit) for the 2016/17 Plan Year | \$423,795 |
| | x 0.075 |
| One Year's Interest Charge/(Credit) on the Remaining Contribution | \$31,785 |

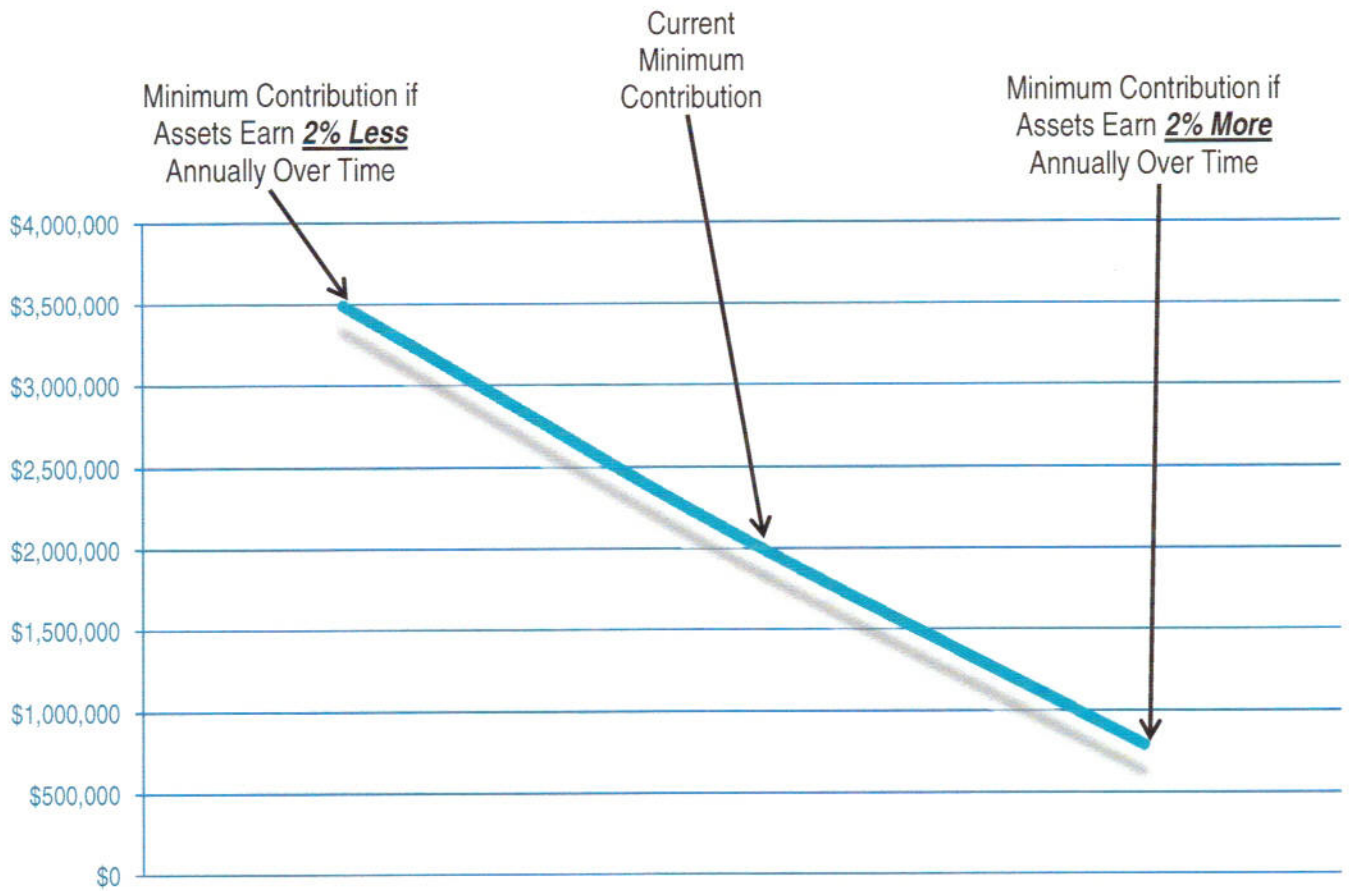
Minimum Required Contribution for the 2017/18 Plan Year **\$2,065,967**

| | |
|--------------------------|-------------|
| City of Oakland Park | \$1,895,213 |
| Broward Sheriff's Office | \$170,754 |



Sensitivity Analysis

Table I-B



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



Gain and Loss Analysis

Table I-C

Source of Change in the Minimum Required Contribution

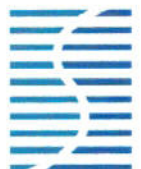
| | |
|---|--------------------|
| Previous minimum required contribution | \$1,610,387 |
| Increase (decrease) due to investment gains and losses | \$59,546 |
| Increase (decrease) due to demographic experience | \$212,989 |
| Increase (decrease) due to plan amendments | \$0 |
| Increase (decrease) due to actuarial assumption changes | \$522,278 |
| Increase (decrease) due to actuarial method changes | (\$339,233) |
| Current minimum required contribution | <u>\$2,065,967</u> |



Present Value of Future Benefits

Table I-D

| | <u>Old Assumptions w/o Amendment</u> | <u>Old Assumptions w/ Amendment</u> | <u>New Assumptions w/ Amendment</u> |
|--|--|---|---|
| <u>Actively Employed Participants</u> | | | |
| Retirement benefits | \$14,610,659 | \$14,610,659 | \$15,482,644 |
| Termination benefits | \$193,248 | \$193,248 | \$208,164 |
| Disability benefits | \$117,579 | \$117,579 | \$117,912 |
| Death benefits | \$25,448 | \$25,448 | \$30,882 |
| Refund of employee contributions | \$0 | \$0 | \$0 |
| Sub-total | \$14,946,934 | \$14,946,934 | \$15,839,602 |
| <u>Deferred Vested Participants</u> | | | |
| Retirement benefits | \$2,077,903 | \$2,077,903 | \$2,257,497 |
| Termination benefits | \$0 | \$0 | \$0 |
| Disability benefits | \$0 | \$0 | \$0 |
| Death benefits | \$0 | \$0 | \$0 |
| Refund of employee contributions | \$0 | \$0 | \$0 |
| Sub-total | \$2,077,903 | \$2,077,903 | \$2,257,497 |
| <u>Due a Refund of Contributions</u> | \$5,404 | \$5,404 | \$5,404 |
| <u>Deferred Beneficiaries</u> | \$0 | \$0 | \$0 |
| <u>Retired Participants</u> | | | |
| Service retirements | \$27,879,412 | \$27,879,412 | \$29,855,278 |
| Disability retirements | \$133,368 | \$133,368 | \$142,372 |
| Beneficiaries receiving | \$76,736 | \$76,736 | \$81,598 |
| DROP participants | \$0 | \$0 | \$0 |
| Sub-total | \$28,089,516 | \$28,089,516 | \$30,079,248 |
| <u>Grand Total</u> | <u>\$45,119,757</u> | <u>\$45,119,757</u> | <u>\$48,181,751</u> |
| Present Value of Future Payroll | \$23,831,978 | \$23,831,978 | \$23,790,306 |
| Present Value of Future Employee Contribs. | \$0 | \$0 | \$0 |
| Present Value of Future Employer Contribs. | \$9,828,680 | \$9,828,680 | \$12,890,153 |



Present Value of Accrued Benefits

Table I-E

| | <u>Old Assumptions w/o Amendment</u> | <u>Old Assumptions w/ Amendment</u> | <u>New Assumptions w/ Amendment</u> |
|--|--|---|---|
| <i><u>Actively Employed Participants</u></i> | | | |
| Retirement benefits | \$13,388,894 | \$13,388,894 | \$14,178,306 |
| Termination benefits | \$184,352 | \$184,352 | \$198,520 |
| Disability benefits | \$73,526 | \$73,526 | \$73,765 |
| Death benefits | \$25,330 | \$25,330 | \$30,728 |
| Refund of employee contributions | \$0 | \$0 | \$0 |
| Sub-total | \$13,672,102 | \$13,672,102 | \$14,481,319 |
| <i><u>Deferred Vested Participants</u></i> | | | |
| Retirement benefits | \$2,077,903 | \$2,077,903 | \$2,257,497 |
| Termination benefits | \$0 | \$0 | \$0 |
| Disability benefits | \$0 | \$0 | \$0 |
| Death benefits | \$0 | \$0 | \$0 |
| Refund of employee contributions | \$0 | \$0 | \$0 |
| Sub-total | \$2,077,903 | \$2,077,903 | \$2,257,497 |
| <i><u>Due a Refund of Contributions</u></i> | \$5,404 | \$5,404 | \$5,404 |
| <i><u>Deferred Beneficiaries</u></i> | \$0 | \$0 | \$0 |
| <i><u>Retired Participants</u></i> | | | |
| Service retirements | \$27,879,412 | \$27,879,412 | \$29,855,278 |
| Disability retirements | \$133,368 | \$133,368 | \$142,372 |
| Beneficiaries receiving | \$76,736 | \$76,736 | \$81,598 |
| DROP participants | \$0 | \$0 | \$0 |
| Sub-total | \$28,089,516 | \$28,089,516 | \$30,079,248 |
| <i><u>Grand Total</u></i> | <u>\$43,844,925</u> | <u>\$43,844,925</u> | <u>\$46,823,468</u> |
| | | | |
| <i><u>Funded Percentage</u></i> | 81.17% | 81.17% | 76.01% |



Present Value of Vested Benefits

Table I-F

| | <u>Old Assumptions w/o Amendment</u> | <u>Old Assumptions w/ Amendment</u> | <u>New Assumptions w/ Amendment</u> |
|--|--|---|---|
| <i><u>Actively Employed Participants</u></i> | | | |
| Retirement benefits | \$11,090,606 | \$11,090,606 | \$11,868,719 |
| Termination benefits | \$110,203 | \$110,203 | \$123,131 |
| Disability benefits | \$87,517 | \$87,517 | \$87,866 |
| Death benefits | \$25,606 | \$25,606 | \$30,903 |
| Refund of employee contributions | \$0 | \$0 | \$0 |
| Sub-total | \$11,313,932 | \$11,313,932 | \$12,110,619 |
| <i><u>Deferred Vested Participants</u></i> | | | |
| Retirement benefits | \$2,077,903 | \$2,077,903 | \$2,257,497 |
| Termination benefits | \$0 | \$0 | \$0 |
| Disability benefits | \$0 | \$0 | \$0 |
| Death benefits | \$0 | \$0 | \$0 |
| Refund of employee contributions | \$0 | \$0 | \$0 |
| Sub-total | \$2,077,903 | \$2,077,903 | \$2,257,497 |
| <i><u>Due a Refund of Contributions</u></i> | \$5,404 | \$5,404 | \$5,404 |
| <i><u>Deferred Beneficiaries</u></i> | \$0 | \$0 | \$0 |
| <i><u>Retired Participants</u></i> | | | |
| Service retirements | \$27,879,412 | \$27,879,412 | \$29,855,278 |
| Disability retirements | \$133,368 | \$133,368 | \$142,372 |
| Beneficiaries receiving | \$76,736 | \$76,736 | \$81,598 |
| DROP participants | \$0 | \$0 | \$0 |
| Sub-total | \$28,089,516 | \$28,089,516 | \$30,079,248 |
| <i><u>Grand Total</u></i> | <u>\$41,486,755</u> | <u>\$41,486,755</u> | <u>\$44,452,768</u> |



Entry Age Normal Accrued Liability

Table I-G

| | <u>Old Assumptions w/o Amendment</u> | <u>Old Assumptions w/ Amendment</u> | <u>New Assumptions w/ Amendment</u> |
|---------------------------------------|--|---|---|
| <u>Actively Employed Participants</u> | | | |
| Retirement benefits | \$13,194,012 | \$13,194,012 | \$13,973,928 |
| Termination benefits | \$177,856 | \$177,856 | \$191,397 |
| Disability benefits | \$93,670 | \$93,670 | \$93,964 |
| Death benefits | \$20,823 | \$20,823 | \$25,087 |
| Refund of employee contributions | \$0 | \$0 | \$0 |
| Sub-total | \$13,486,361 | \$13,486,361 | \$14,284,376 |
| <u>Deferred Vested Participants</u> | | | |
| Retirement benefits | \$2,077,903 | \$2,077,903 | \$2,257,497 |
| Termination benefits | \$0 | \$0 | \$0 |
| Disability benefits | \$0 | \$0 | \$0 |
| Death benefits | \$0 | \$0 | \$0 |
| Refund of employee contributions | \$0 | \$0 | \$0 |
| Sub-total | \$2,077,903 | \$2,077,903 | \$2,257,497 |
| <u>Due a Refund of Contributions</u> | \$5,404 | \$5,404 | \$5,404 |
| <u>Deferred Beneficiaries</u> | \$0 | \$0 | \$0 |
| <u>Retired Participants</u> | | | |
| Service retirements | \$27,879,412 | \$27,879,412 | \$29,855,278 |
| Disability retirements | \$133,368 | \$133,368 | \$142,372 |
| Beneficiaries receiving | \$76,736 | \$76,736 | \$81,598 |
| DROP participants | \$0 | \$0 | \$0 |
| Sub-total | \$28,089,516 | \$28,089,516 | \$30,079,248 |
| <u>Grand Total</u> | <u>\$43,659,184</u> | <u>\$43,659,184</u> | <u>\$46,626,525</u> |



Actuarial Value of Assets

Table II-A

| <u>Net Investment Appreciation (Depreciation)</u> | | <u>Unrecognized Gain (Loss)</u> |
|---|-----|---------------------------------|
| For the 2014/15 plan year | N/A | x 1/3 |
| For the 2015/16 plan year | N/A | x 2/3 |
| | | \$0 |

Market Value of Assets as of October 1, 2016 \$35,588,977

Minus advance employer contributions \$0

Adjustment for unrecognized gain or loss as shown above,
but restricted to an amount that keeps the actuarial value
of assets within an 80%-120% corridor of the market value \$0

Actuarial Value of Assets as of October 1, 2016 \$35,588,977

| <u>Historical Actuarial Value of Assets</u> | |
|---|--------------|
| October 1, 2007 | \$21,820,705 |
| October 1, 2008 | \$21,539,166 |
| October 1, 2009 | \$21,132,669 |
| October 1, 2010 | \$20,985,897 |
| October 1, 2011 | \$22,600,016 |
| October 1, 2012 | \$24,962,267 |
| October 1, 2013 | \$27,814,726 |
| October 1, 2014 | \$31,247,703 |
| October 1, 2015 | \$32,835,674 |
| October 1, 2016 | \$35,588,977 |

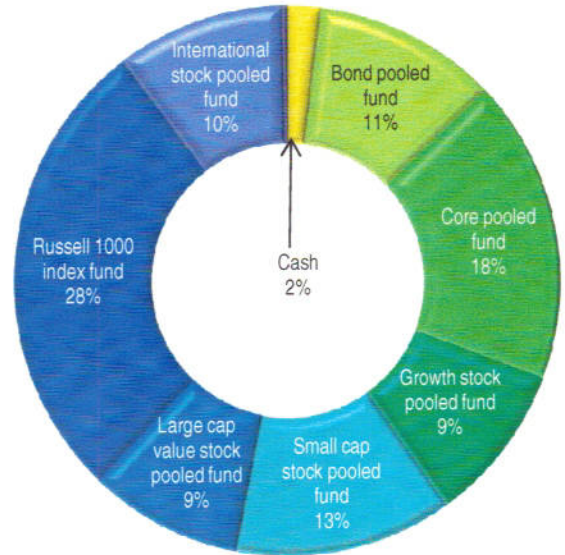


Market Value of Assets

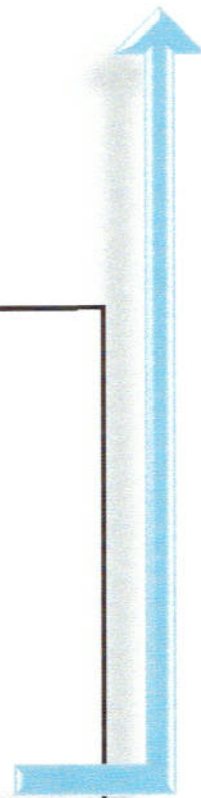
Table II-B

As of October 1, 2016

| | |
|-----------------------------------|----------------------------|
| Market Value of Assets | <u>\$35,588,977</u> |
| Cash | \$709,795 |
| Bond pooled fund | \$3,903,874 |
| Core pooled fund | \$6,352,668 |
| Growth stock pooled fund | \$3,336,038 |
| Small cap stock pooled fund | \$4,613,669 |
| Large cap value stock pooled fund | \$3,229,569 |
| Russell 1000 index fund | \$9,795,175 |
| International stock pooled fund | \$3,548,976 |
| Employer contribution receivable | \$99,213 |

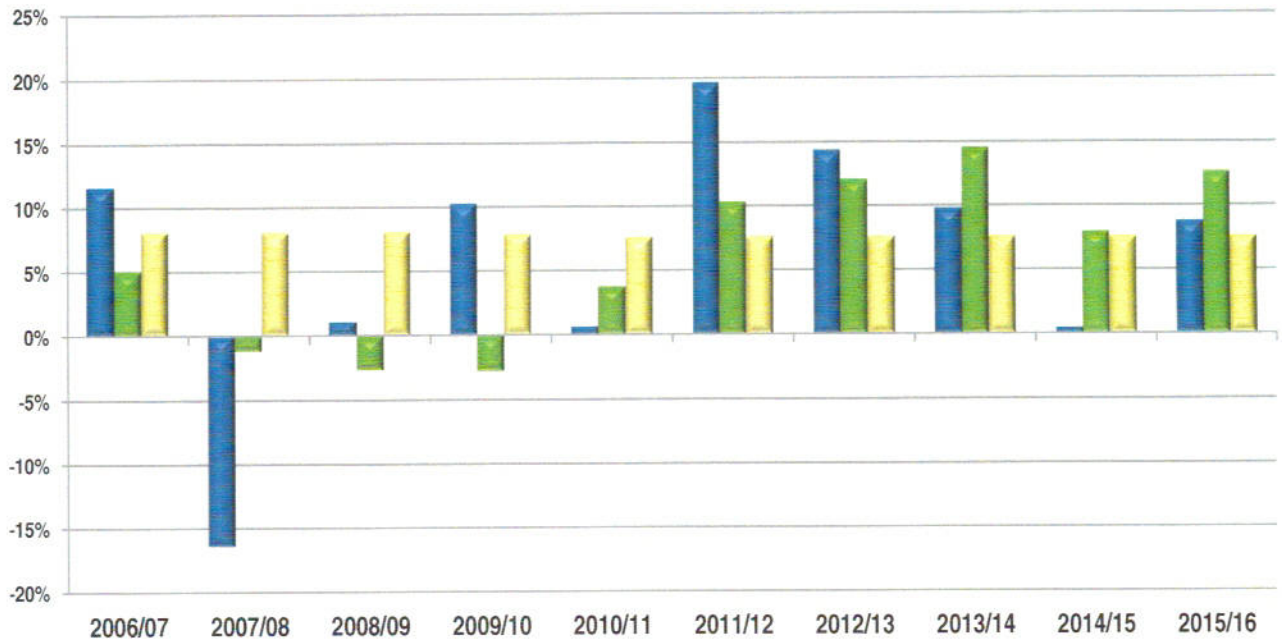


| Historical Market Value of Assets | |
|--|--------------|
| October 1, 2007 | \$23,559,344 |
| October 1, 2008 | \$19,528,812 |
| October 1, 2009 | \$19,914,148 |
| October 1, 2010 | \$22,425,535 |
| October 1, 2011 | \$24,884,570 |
| October 1, 2012 | \$28,703,452 |
| October 1, 2013 | \$32,118,573 |
| October 1, 2014 | \$34,677,145 |
| October 1, 2015 | \$33,980,146 |
| October 1, 2016 | \$35,588,977 |



Investment Return

Table II-C



Annual Investment Returns

- Market Value Return
- Actuarial Value Return
- Assumed Return

| Plan Year | Market Value Return | Actuarial Value Return | Assumed Return |
|------------|---------------------|------------------------|----------------|
| 2006/07 | 11.56% | 5.06% | 8.00% |
| 2007/08 | -16.44% | -1.23% | 8.00% |
| 2008/09 | 1.07% | -2.69% | 8.00% |
| 2009/10 | 10.25% | -2.78% | 7.75% |
| 2010/11 | 0.62% | 3.74% | 7.50% |
| 2011/12 | 19.60% | 10.30% | 7.50% |
| 2012/13 | 14.32% | 12.04% | 7.50% |
| 2013/14 | 9.77% | 14.48% | 7.50% |
| 2014/15 | 0.47% | 7.94% | 7.50% |
| 2015/16 | 8.76% | 12.63% | 7.50% |
| 10yr. Avg. | 5.54% | 5.77% | 7.67% |



Asset Reconciliation

Table II-D

| | <u>Market Value</u> | <u>Actuarial Value</u> |
|----------------------------------|-----------------------------------|-----------------------------------|
| As of October 1, 2015 | \$33,980,146 | \$32,835,674 |
| <i>Increases Due To:</i> | | |
| Employer Contributions | \$1,863,600 | \$1,863,600 |
| Employee Contributions | \$0 | \$0 |
| Service Purchase Contributions | \$0 | \$0 |
| Total Contributions | <u>\$1,863,600</u> | <u>\$1,863,600</u> |
| Interest and Dividends | \$0 | |
| Realized Gains (Losses) | \$0 | |
| Unrealized Gains (Losses) | \$2,919,202 | |
| Total Investment Income | <u>\$2,919,202</u> | \$4,063,674 |
| Other Income | \$0 | |
| Total Income | <u>\$4,782,802</u> | <u>\$5,927,274</u> |
| <i>Decreases Due To:</i> | | |
| Monthly Benefit Payments | (\$3,091,344) | (\$3,091,344) |
| Refund of Employee Contributions | \$0 | \$0 |
| Total Benefit Payments | <u>(\$3,091,344)</u> | <u>(\$3,091,344)</u> |
| Investment Expenses | \$0 | |
| Administrative Expenses | (\$82,627) | (\$82,627) |
| Advance Employer Contribution | | \$0 |
| Total Expenses | <u>(\$3,173,971)</u> | <u>(\$3,173,971)</u> |
| As of October 1, 2016 | <u><u>\$35,588,977</u></u> | <u><u>\$35,588,977</u></u> |



Historical Trust Fund Detail

Table II-E

Income

| <u>Plan</u> <u>Year</u> | <u>Employer</u> <u>Contribs.</u> | <u>Employee</u> <u>Contribs.</u> | <u>Service</u> <u>Purchase</u> <u>Contribs.</u> | <u>Interest /</u> <u>Dividends</u> | <u>Realized</u> <u>Gains /</u> <u>Losses</u> | <u>Unrealized</u> <u>Gains /</u> <u>Losses</u> | <u>Other</u> <u>Income</u> |
|----------------------------|-------------------------------------|-------------------------------------|---|---------------------------------------|--|--|-------------------------------|
| 2006/07 | \$1,823,084 | \$0 | \$0 | \$0 | \$0 | \$2,569,190 | \$0 |
| 2007/08 | \$1,828,158 | \$0 | \$0 | \$217,077 | \$0 | -\$4,045,138 | \$0 |
| 2008/09 | \$2,348,104 | \$47,762 | \$0 | \$4,630 | \$0 | \$194,787 | \$12,006 |
| 2009/10 | \$2,556,393 | \$238,540 | \$0 | \$0 | \$0 | \$2,062,063 | \$2,889 |
| 2010/11 | \$4,744,632 | \$220,681 | \$0 | \$0 | \$0 | \$145,800 | \$0 |
| 2011/12 | \$1,871,345 | \$0 | \$0 | \$0 | \$0 | \$4,783,635 | \$0 |
| 2012/13 | \$2,295,850 | \$0 | \$0 | \$0 | \$0 | \$4,063,953 | \$0 |
| 2013/14 | \$2,519,977 | \$0 | \$0 | \$0 | \$0 | \$3,112,186 | \$0 |
| 2014/15 | \$2,230,002 | \$0 | \$0 | \$0 | \$0 | \$160,616 | \$0 |
| 2015/16 | \$1,863,600 | \$0 | \$0 | \$0 | \$0 | \$2,919,202 | \$0 |

Expenses

| <u>Plan</u> <u>Year</u> | <u>Monthly</u> <u>Benefit</u> <u>Payments</u> | <u>Contrib.</u> <u>Refunds</u> | <u>Admin.</u> <u>Expenses</u> | <u>Invest.</u> <u>Expenses</u> |
|----------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|
| 2006/07 | \$1,957,773 | \$0 | \$78,548 | \$109,541 |
| 2007/08 | \$1,933,069 | \$0 | \$66,782 | \$30,778 |
| 2008/09 | \$2,142,093 | \$0 | \$78,996 | \$864 |
| 2009/10 | \$2,258,890 | \$570 | \$88,974 | \$64 |
| 2010/11 | \$2,562,380 | \$0 | \$89,698 | \$0 |
| 2011/12 | \$2,777,036 | \$0 | \$59,062 | \$0 |
| 2012/13 | \$2,851,993 | \$0 | \$92,689 | \$0 |
| 2013/14 | \$2,998,668 | \$0 | \$74,923 | \$0 |
| 2014/15 | \$3,010,328 | \$0 | \$77,289 | \$0 |
| 2015/16 | \$3,091,344 | \$0 | \$82,627 | \$0 |

Other Actuarial Adjustments

| <u>Advance</u> <u>Employer</u> <u>Contribs.</u> |
|---|
| \$158,331 |
| -\$158,331 |
| \$0 |
| \$0 |
| \$1,500,000 |
| -\$996,505 |
| -\$503,495 |
| \$0 |
| \$0 |
| \$0 |

Note: Information was not available to separate the realized and unrealized gains and losses.



Other Reconciliations

Table II-F

Advance Employer Contribution

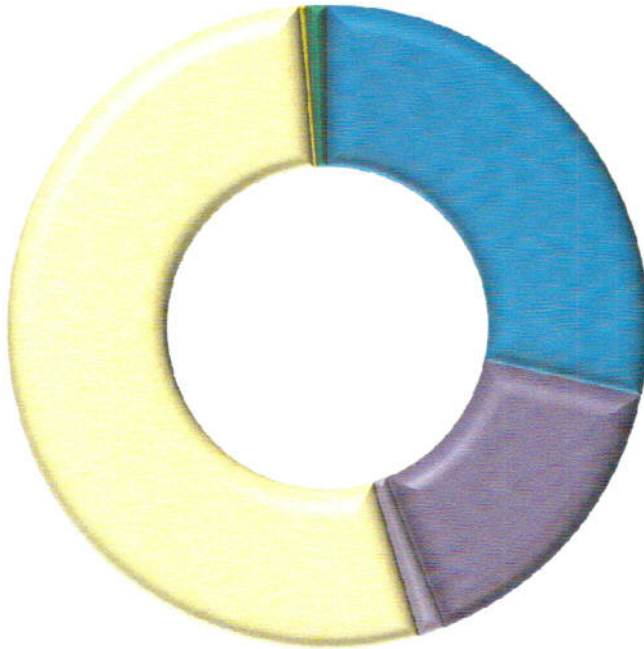
| | |
|---|----------------------|
| Advance Employer Contribution as of October 1, 2015 | \$0 |
| Additional Employer Contribution | \$1,863,600 |
| Minimum Required Contribution | <u>(\$1,863,600)</u> |
| Net Increase in Advance Employer Contribution | \$0 |
| Advance Employer Contribution as of October 1, 2016 | <u><u>\$0</u></u> |



Summary of Participant Data

Table III-A

As of October 1, 2016



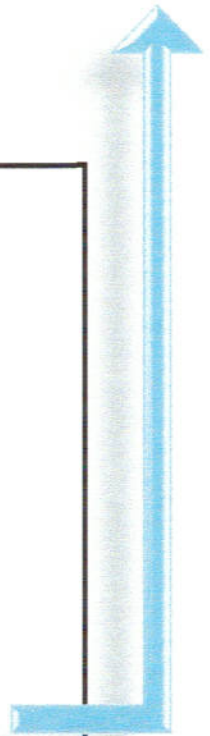
Participant Distribution by Status

| | | |
|---|-------------------------------|-----|
| <u>Actively Employed Participants</u> | | |
| ◆ | Active Participants | 84 |
| ◆ | DROP Participants | 0 |
| <u>Inactive Participants</u> | | |
| ◆ | Deferred Vested Participants | 46 |
| ◆ | Due a Refund of Contributions | 4 |
| ◆ | Deferred Beneficiaries | 0 |
| <u>Participants Receiving a Benefit</u> | | |
| ◆ | Service Retirements | 157 |
| ◆ | Disability Retirements | 1 |
| ◆ | Beneficiaries Receiving | 3 |

Total Participants 295

Number of Participants Included in Prior Valuations

| | <i>Active</i> | <i>DROP</i> | <i>Inactive</i> | <i>Retired</i> | <i>Total</i> |
|-----------------|---------------|-------------|-----------------|----------------|--------------|
| October 1, 2007 | 177 | 0 | 54 | 119 | 350 |
| October 1, 2008 | 176 | 0 | 54 | 110 | 340 |
| October 1, 2009 | 155 | 0 | 47 | 126 | 328 |
| October 1, 2010 | 145 | 0 | 48 | 129 | 322 |
| October 1, 2011 | 124 | 0 | 53 | 139 | 316 |
| October 1, 2012 | 122 | 0 | 48 | 143 | 313 |
| October 1, 2013 | 111 | 0 | 45 | 150 | 306 |
| October 1, 2014 | 102 | 0 | 46 | 158 | 306 |
| October 1, 2015 | 95 | 0 | 51 | 155 | 301 |
| October 1, 2016 | 84 | 0 | 50 | 161 | 295 |



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, 2015</u> | 95 | 0 | 47 | 4 | 0 | 149 | 2 | 4 | 301 |
| <u>Change in Status</u> | | | | | | | | | |
| <i>Re-employed</i> | | | | | | | | | |
| <i>Terminated</i> | (5) | | 5 | | | | | | |
| <i>Retired</i> | (6) | | (4) | | | 11 | (1) | | |
| <u>Participation Ended</u> | | | | | | | | | |
| <i>Transferred Out</i> | | | | | | | | | |
| <i>Cashed Out</i> | | | | | | | | | |
| <i>Died</i> | | | | | | (3) | | | (3) |
| <u>Participation Began</u> | | | | | | | | | |
| <i>Newly Hired</i> | | | | | | | | | |
| <i>Transferred In</i> | | | | | | | | | |
| <i>New Beneficiary</i> | | | | | | | | | |
| <i>Other Adjustment</i> | | | (2) | | | | | (1) | (3) |
| <u>October 1, 2016</u> | 84 | 0 | 46 | 4 | 0 | 157 | 1 | 3 | 295 |

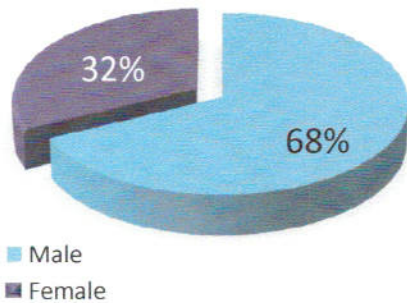


Active Participant Data

Table III-C

As of October 1, 2016

Gender Mix



| | |
|--|-------------|
| Average Age | 52.5 years |
| Average Service | 17.7 years |
| Total Annualized Compensation for the Prior Year | \$4,373,550 |
| Total Expected Compensation for the Current Year | \$3,616,327 |
| Average Increase in Compensation for the Prior Year | 3.53% |
| Expected Increase in Compensation for the Current Year | 5.00% |
| Accumulated Contributions for Active Employees | \$286,687 |



Actual vs. Expected Salary Increases

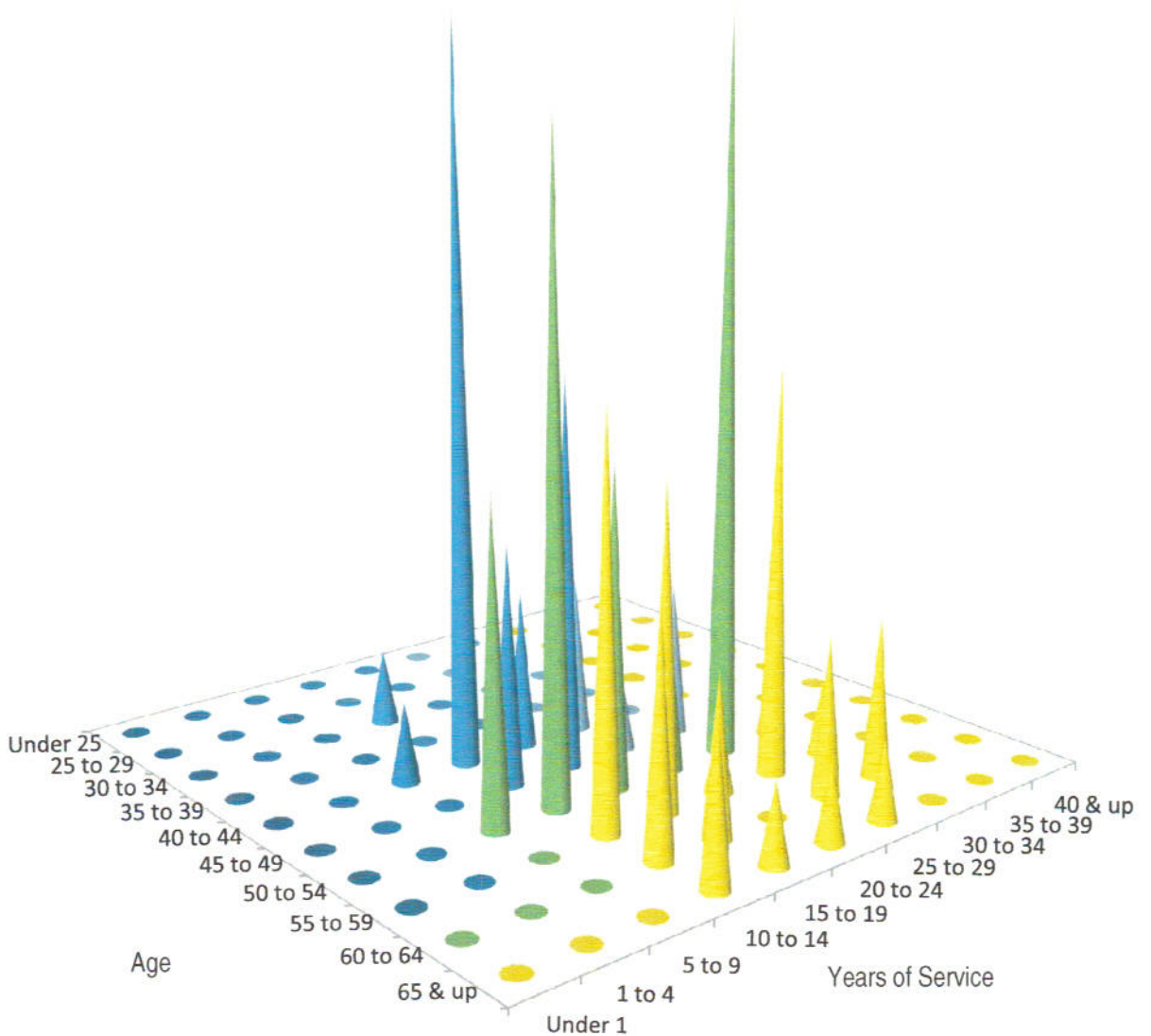
Active Participant Statistics From Prior Valuations

| | Average Age | Average Service | Average Salary | Average Expected Salary Increase | Average Actual Salary Increase |
|-----------------|-------------|-----------------|----------------|----------------------------------|--------------------------------|
| October 1, 2007 | 45.8 | 7.9 | \$43,838 | 4.50% | 7.51% |
| October 1, 2008 | 46.7 | 8.9 | \$43,826 | 5.00% | 0.00% |
| October 1, 2009 | 47.5 | 10.6 | \$47,538 | 5.00% | 9.09% |
| October 1, 2010 | 48.3 | 11.6 | \$48,724 | 5.00% | 3.96% |
| October 1, 2011 | 48.7 | 12.0 | \$48,233 | 5.00% | 0.07% |
| October 1, 2012 | 49.1 | 13.1 | \$48,213 | 5.00% | 0.28% |
| October 1, 2013 | 49.6 | 14.0 | \$48,991 | 5.00% | 1.10% |
| October 1, 2014 | 50.2 | 15.3 | \$50,439 | 5.00% | 3.91% |
| October 1, 2015 | 51.5 | 16.5 | \$51,668 | 5.00% | 3.12% |
| October 1, 2016 | 52.5 | 17.7 | \$52,066 | 5.00% | 3.53% |



Active Age-Service Distribution

Table III-D



- ▲ Eligible to retire
- ▲ May be eligible to retire
- ▲ Not eligible to retire



Active Age-Service-Salary Table

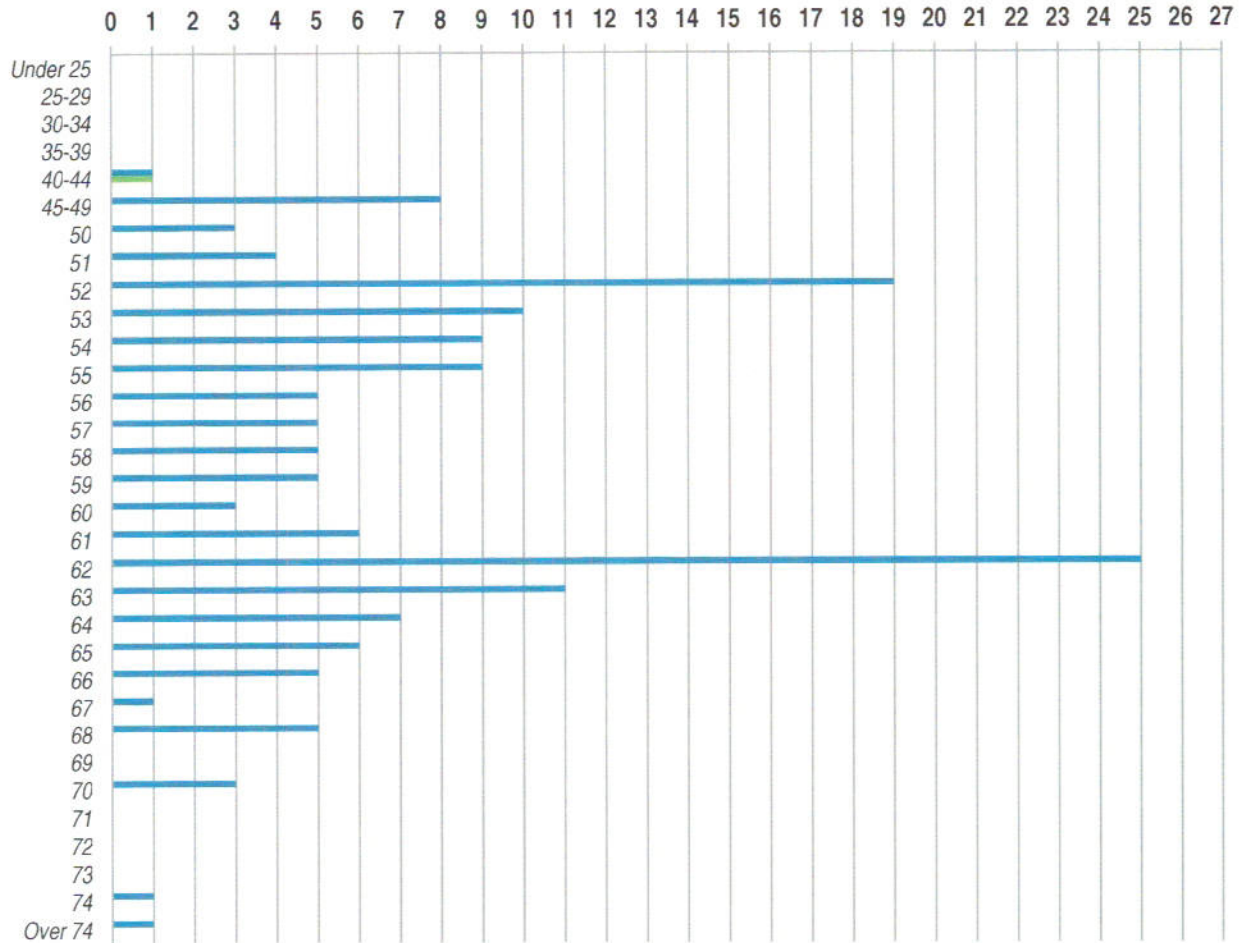
Table III-E

| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg. Pay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 to 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg. Pay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 to 34 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Avg. Pay | 0 | 0 | 0 | 37,721 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37,721 |
| 35 to 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Avg. Pay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 to 44 | 0 | 0 | 1 | 9 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 14 |
| Avg. Pay | 0 | 0 | 30,675 | 39,042 | 43,470 | 54,601 | 0 | 0 | 0 | 0 | 0 | 41,300 |
| 45 to 49 | 0 | 0 | 0 | 3 | 5 | 1 | 2 | 0 | 0 | 0 | 0 | 11 |
| Avg. Pay | 0 | 0 | 0 | 52,791 | 50,524 | 49,754 | 52,273 | 0 | 0 | 0 | 0 | 51,390 |
| 50 to 54 | 0 | 0 | 4 | 8 | 4 | 2 | 9 | 1 | 0 | 0 | 0 | 28 |
| Avg. Pay | 0 | 0 | 37,203 | 50,040 | 66,253 | 55,248 | 57,203 | 65,953 | 0 | 0 | 0 | 53,765 |
| 55 to 59 | 0 | 0 | 0 | 5 | 4 | 1 | 5 | 1 | 0 | 0 | 0 | 16 |
| Avg. Pay | 0 | 0 | 0 | 39,753 | 52,634 | 48,968 | 65,627 | 85,260 | 0 | 0 | 0 | 54,479 |
| 60 to 64 | 0 | 0 | 0 | 3 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 9 |
| Avg. Pay | 0 | 0 | 0 | 61,231 | 40,023 | 0 | 62,155 | 57,863 | 0 | 0 | 0 | 55,975 |
| 65 & up | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| Avg. Pay | 0 | 0 | 0 | 68,070 | 41,299 | 73,559 | 60,483 | 0 | 0 | 0 | 0 | 62,296 |
| Total | 0 | 0 | 5 | 31 | 18 | 7 | 19 | 4 | 0 | 0 | 0 | 84 |
| Avg. Pay | 0 | 0 | 35,897 | 47,303 | 52,025 | 55,997 | 59,595 | 66,735 | 0 | 0 | 0 | 52,066 |



Inactive Participant Data

Table III-F



Age at Retirement

- Service Retirements
- Disability Retirements
- DROP Participants

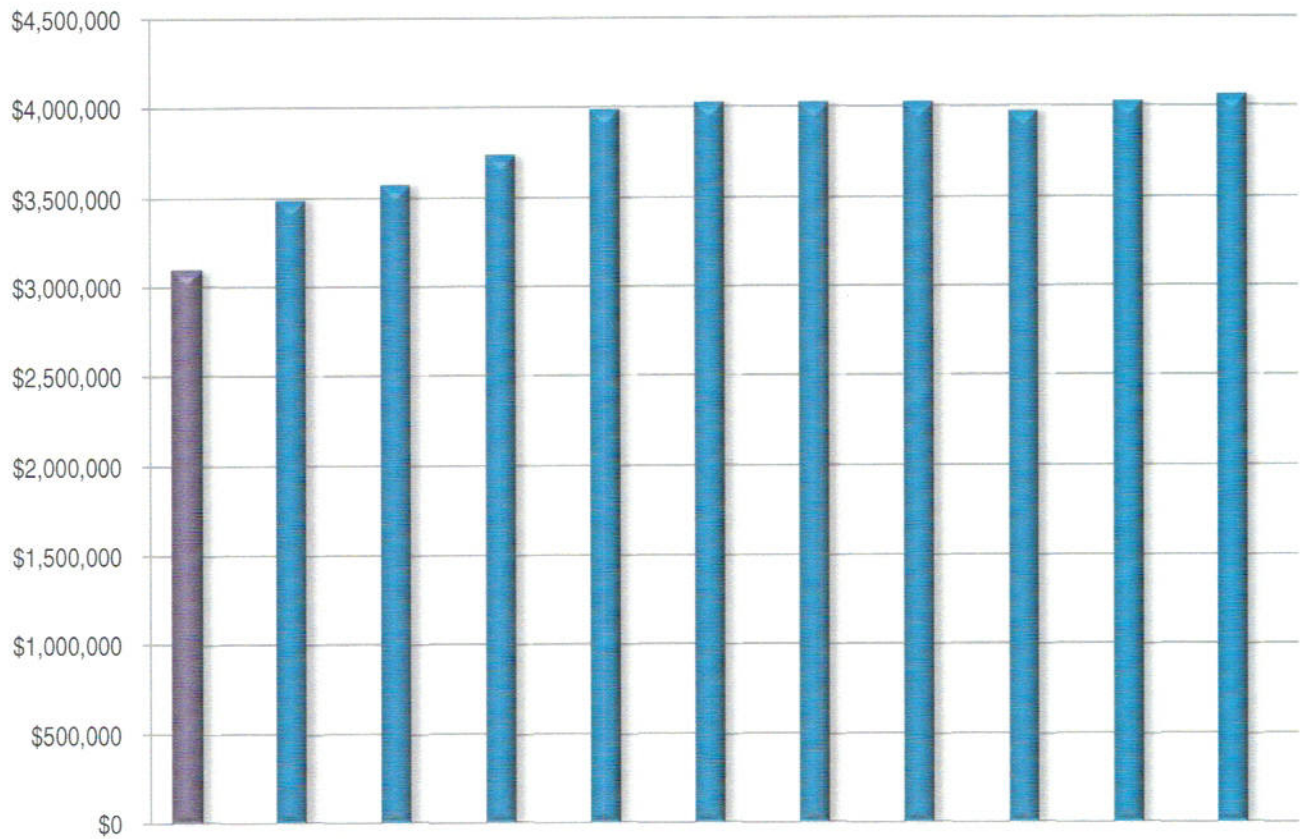
Average Monthly Benefit

| | |
|------------------------------|----------------|
| Service Retirements | \$1,629.97 |
| Disability Retirements | \$1,090.83 |
| Beneficiaries Receiving | \$968.11 |
| DROP Participants | Not applicable |
| Deferred Vested Participants | \$735.08 |
| Deferred Beneficiaries | Not applicable |



Projected Benefit Payments

Table III-G



Actual

For the period October 1, 2015 through September 30, 2016 \$3,091,344

Projected

For the period October 1, 2016 through September 30, 2017 \$3,488,369
 For the period October 1, 2017 through September 30, 2018 \$3,570,505
 For the period October 1, 2018 through September 30, 2019 \$3,733,185
 For the period October 1, 2019 through September 30, 2020 \$3,983,559
 For the period October 1, 2020 through September 30, 2021 \$4,024,076
 For the period October 1, 2021 through September 30, 2022 \$4,018,640
 For the period October 1, 2022 through September 30, 2023 \$4,017,881
 For the period October 1, 2023 through September 30, 2024 \$3,971,410
 For the period October 1, 2024 through September 30, 2025 \$4,022,209
 For the period October 1, 2025 through September 30, 2026 \$4,057,921



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**

Aggregate cost method. Under this actuarial cost method, a funding cost is developed for the plan as a level percentage of payroll. The level funding percentage is calculated as the excess of the total future benefit liability over accumulated assets and future employee contributions, with this excess spread over the expected future payroll for current active participants. The normal cost is equal to the level funding percentage multiplied by the expected payroll for the year immediately following the valuation date. The actuarial accrued liability is equal to the accumulated assets. Therefore, under the aggregate cost method, no unfunded accrued liability is developed.

2. **Asset Method**

The actuarial value of assets is equal to the market value of assets, adjusted to reflect a three-year phase-in of the net investment appreciation (both realized and unrealized) that occurs after September 30, 2016.

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

7.50% per annum

4. **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.

5. **Decrements**

- Pre-retirement mortality: Sex-distinct rates set forth in the RP-2000 Combined Mortality Table, with full generational improvements in mortality using Scale BB
- Post-retirement mortality: Sex-distinct rates set forth in the RP-2000 Combined Mortality Table, with full generational improvements in mortality using Scale BB
- Disability: Sex-distinct rates set forth in the Wyatt 1985 Disability Study (Class 1)
- Termination: Sex-distinct rates set forth in the Scale 255 Table



Summary of Actuarial Methods and Assumptions

Table IV-A

(continued)

- Retirement: Retirement is assumed to occur upon the earlier of the attainment of age 62 or 30 years of service.

6. Form of Payment

Future retirees have been assumed to select the five-year certain and life annuity.

7. Expenses

Administrative expenses are assumed to be 1.25% of covered payroll. In addition, the interest rate set forth in item 3. above is assumed to be net of investment expenses and commissions.

8. Active Payroll for BSO Employees

With respect to the BSO employees who are actively participating in the plan, actual historical covered payroll was not provided prior to October 1, 2009. Instead, the plan administrator provided us with an annual rate of pay as of that date. We have applied the 5.00% salary increase assumption to this rate of pay in order to estimate historical plan compensation for these individuals.



Changes in Actuarial Methods and Assumptions

Table IV-B

Since the completion of the previous valuation, the following assumptions and methods were changed:

- (1) The mortality basis was changed from a 2007 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; and
- (2) The method used to determine the actuarial value of assets was changed from the market value adjusted to reflect a three-year phase-in of the net investment gains and losses to the market value adjusted to reflect a three-year phase-in of the net investment gains and losses that occur after September 30, 2016.



Summary of Plan Provisions

Table V-A

1. **Monthly Accrued Benefit**

3.50% of Final Average Monthly Earnings multiplied by up to 20 years of service plus 0.50% of Final Average Monthly Earnings multiplied by up to 10 years of service in excess of 20 years *(Note: Benefits cease to accrue as of September 30, 2011.)*

2. **Normal Retirement Age and Benefit**

- **Age**
Age 62
- **Amount**
Monthly Accrued Benefit
- **Form of Payment**
Five-year certain and life annuity (normal form of payment);
Actuarially equivalent five-year certain and joint and contingent annuity (optional);
Actuarially equivalent temporary life annuity (optional);
A combination of the certain and life or certain and joint and contingent annuity with a temporary life annuity as described above (optional); or
Actuarially equivalent lump sum distribution (automatic if the participant's monthly annuity is less than \$5.00)

3. **Early Retirement Age and Benefit**

- **Age**
Age 52 with at least seven years of service; or
Any age with at least 30 years of service
- **Amount**
Monthly Accrued Benefit (payable at age 62); or
Monthly Accrued Benefit, reduced by 3.1% for each year by which the participant's Early Retirement Age precedes age 62 for those participants who have earned less than 30 years of service (payable at Early Retirement Age).
- **Form of Payment**
Same as for Normal Retirement

4. **Deferred Retirement Age and Benefit**

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



Summary of Plan Provisions

Table V-A

(continued)

5. **Disability Eligibility and Benefit**

- **Eligibility**

All participants are eligible.

- **Condition**

The participant must be eligible for a federal Social Security disability benefit and must have become disabled during his period of employment with the City.

- **Amount Payable Until Normal Retirement Age**

Temporary life annuity equal to 66⅔% of the participant's base salary at the time of his disability, offset by any Social Security and workmen's compensation benefits that are payable to the participant

- **Amount Payable Upon Attainment of Normal Retirement Age**

Monthly Accrued Benefit determined as of the original date of disability

6. **Deferred Vested Benefit**

- **Amount**

Monthly Accrued Benefit (payable at age 62);

Monthly Accrued Benefit, reduced by 3.1% for each year by which the participant's Early Retirement Age precedes age 62 (payable at Early Retirement Age).

- **Form of Payment**

Same as for Normal Retirement

7. **Vested Percentage**

For those participants who terminated their employment prior to September 30, 2011, 35% upon the attainment of seven years of service plus an additional 5% for each whole year of service earned in excess of seven years, to a maximum of 100% upon the attainment of 20 years of service; for all other participants, 100%.

8. **Pre-Retirement Death Benefits**

Upon the death prior to retirement of a fully or partially vested participant, the participant's beneficiary receives a single lump sum payment equal to 100% of the basic annual rate of pay (for those participants who have earned less than 15 years of service at the time of their death) or 150% of the basic annual rate of pay (for all other participants). The maximum lump sum payment is \$30,000.



Summary of Plan Provisions

Table V-A

(continued)

9. Final Average Monthly Earnings

Average monthly earnings for the highest-paid three years of service out of the last five years of service prior to the determination, where monthly compensation is based on 4½ times basic weekly salary or 173½ times basic hourly rate, as applicable, and where compensation excludes overtime pay, bonuses, or other extra compensation; final average monthly earnings does not reflect compensation earned after September 30, 2011.

10. Years of Service

The uninterrupted service, calculated in elapsed time, from the participant’s date of hire until his date of termination, retirement, or death; for purposes of determining the amount of the Monthly Accrued Benefit, service does not reflect periods after September 30, 2007 for those individuals who opt to participate in the FRS as of October 1, 2007 and does not reflect periods after September 30, 2011 for all other individuals.

11. Employee Contribution

Effective during the period June, 2009, through September 30, 2011, the plan requires that all active employees other than BSO employees must contribute 4% of their pensionable earnings. All forms of payment guarantee at least the return of accumulated employee contributions.

12. Participation Requirement

General employees of the City of Oakland Park, Florida automatically become a participant in the plan on their date of hire except for the following individuals:

- (a) *Employees hired after September 30, 2007;*
- (b) *The mayor and City Commission members; and*
- (c) *Non-classified employees who do not opt to continue participation in the plan.*

In addition, certain former employees of the City of Oakland Park who are now employed by the Broward Sheriff’s Office (BSO) have been allowed to continue actively participating in the plan.



Summary of Plan Provisions

Table V-A

(continued)

13. **Definition of Actuarially Equivalent**

- **Interest Rate**
7.50% per annum
- **Mortality Table**
1994 Group Annuity Reserving Table, projected to 2002 by Scale AA

14. **Plan Effective Date**

The initial plan effective date is May 1, 1963; the most recent plan restatement effective date is August 13, 1977.



Summary of Plan Amendments

Table V-B

No significant plan changes were adopted since the completion of the previous valuation.

