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# Cavanaugh Macdonald 

CONSULTING,LLC

January 17, 2016
The experience and dedication you deserve

Board of Trustees
City of Pompano Beach General Employees' Retirement System
555 South Andrews Avenue, Suite 106
Pompano Beach, Florida 33069

Dear Members of the Board:

This report presents the results of the actuarial valuation of the City of Pompano Beach General Employees' Retirement System ("Plan") for the plan year. The 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 amount for the $2017 / 2018$ fiscal year. In addition, this report provides a record of any plan amendments or other plan changes affecting the financial status of the fund. Our calculations were prepared based on member data and financial information provided by the Retirement System. All historical data before the October 1, 2010 valuation was provided by the prior actuary.

## Summary of Valuation Results

The Retirement System receives contributions from the City of Pompano Beach, Broward Sheriff's Office (BSO) and from active members. Members hired prior to June 8,2011 contribute $10.0 \%$ of compensation, while members hired on or after June 8,2011 contribute $7.0 \%$ of compensation. In addition, the City contributes the required member contributions on behalf of the elected/appointed members who participate in the System. These contributions are considered member contributions and are not reflected in the required minimum City contribution. In determining the City's and the County's contribution requirement we have included two alternatives. The first includes interest to reflect that the City will make quarterly contributions throughout the fiscal year. The second reflects that the City will contribute a single lump sum payment on December 31, 2017. Both contribution alternatives anticipate that the BSO will make bjweekly contributions throughout the fiscal year.

## Quarterly Contributions

The total required annual contribution for the 2017/2018 fiscal year from all sources payable based on a quarterly payment schedule beginning October 1,2016 is $\$ 11,023,550$. The amount of the City/BSO contributions varies from year to year. Member contributions are equal to $9.20 \%$ employees' projected payroll. After taking into account expected member contributions of $\$ 2,633,793$, the total required contribution from the City/BSO is $\$ 8,389,757$ or $29.31 \%$ of projected payroll. Of this amount the City is expected to contribute $\$ 8,055,219$ and BSO is expected to contribute $\$ 334,538$. In comparison, the required City/BSO contribution for the $2016 / 2017$ fiscal year was $\$ 6,830,038$, or $24.69 \%$ of projected payroll.

## Single Lump Sum Payment

The total required annual contribution for the 2017/2018 fiscal year from all sources payable as a single lump sum payment on December 31, 2017 is $\$ 10,920,537$. The amount of the City/BSO contributions varies from year to year. Member contributions are equal to $9.20 \%$ of employees' projected payroll. A fter taking into account expected member contributions of $\$ 2,633,793$, the total required contribution from the City/BSO is $\$ 8,286,744$ or $\mathbf{2 8 . 9 5 \%}$ of projected payroll. Of this amount the City is expected to contribute $\$ 7,953,196$ and the BSO is expected to contribute $\$ 333,548$.

For members hired before June 8, 2011, the plan provides a $2 \%$ COLA each year and an additional $1 \%$ COLA if certain conditions are met. They are: if there is a cumulative net experience gain for the year, and the City's cost for the year is $\$ 0$ after payment of the additional COLA. In addition, the present value of the additional COLA cannot be more than the cumulative gains that occurred since inception of the COLA. Since there was a cumulative net experience loss for the year and a required City contribution is due, no variable COLA will be paid to these members this year.

For members hired on or after June 8, 2011, a member is eligible for a COLA on their fifth anniversary of retirement. No increase is given for eligible retirees under 55 on October $1^{s t}$. A $1 \%$ increase is given for eligible retirees between 55 and 64 . A $2 \%$ increase is given for eligible retirees 65 or older. A variable increase (of not more than one percent) will be granted when the plan is sufficiently funded. Since the plan is not sufficiently funded, no variable increase will be paid to these members this year.

Actuarial gains and losses result when the actual experience of the plan (such as asset return, pay increases, turnover, deaths, etc.) is different from that expected by the actuarial assumptions. The plan's unfunded liability was projected to be $\$ 55,990,633$ as of October 1,2016 , taking into account contributions from the City and the County of $\$ 6,545,407$. The actual unfunded liability is $\$ 68,395,011$. The increase of $\$ 12,404,378$ is due to an experience gain for the 2015/2016 plan year, and a large increase due to updating the mortality assumption to comply with Florida Statute $112.63(1)(\mathrm{f})$. This assumption change accounted for $\$ 15,767,946$ of the loss. A detailed analysis of the gain and loss is presented in Table II. The total increase in City/County contribution to amortize the unfunded liability is $\$ 999,422$ per year. A summary of the amortization payments is presented in Table Va.

The valuation is based on a series of actuarial assumptions, including an interest rate of $8.00 \%$ per year and an annual payroll growth assumption of $2.40 \%$. Mortality has been updated to comply with Florida Statute 112.63 (1)(f). Table XI outlines the mortality assumptions used in the report.

A summary of the results of the valuation and the contribution requirements is presented in Table I. The disclosure information required by Chapter 112, Florida Statutes, is presented in Table V. Tables VII and X provide information about the fund's assets and historical contributions. Table VIb provides an asset reconciliation between October 1, 2015 and October 1, 2016. Table VI provides a breakdown of the fund assets by investment type and the calculation of the actuarial value of assets. Tables VII, VIIa, VIII provide a historical record of the growth, expenses, revenues, annual returns and contributions of the fund. Tables IX and IXa through IXd provide a variety of useful information concerning the participant population. The assumptions used in the valuation are outlined in Table XI. Provisions of the plan are set forth in Table XII.

This actuarial valuation was prepared and completed by us or under our direct supervision and we acknowledge responsibility for the results. To the best of our knowledge, the results are complete and accurate and, in our opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, 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 increase in plan costs or required contribution rates have been taken into account in the valuation.

Future actuarial results may differ significantly from the current results 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 (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

Respectfully submitted,


Jose I. Fernandez, ASA, EA, FCA, MAAA
Principal and Consulting Actuary
Enrolled Actuary No. 14-4461
JIF/TBG:jmy

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\text { Toded B } \mathrm{B}
$$

Todd B. Green, ASA, FCA, MAAA Principal and Consulting Actuary

## 1. Number of Participants

As of
October 1, 2015 October 1, 2016
a. Active Participants
i. City and BSO Employees
ii. Elected and Appointed Officials
iii. Senior Management
iv. Sub-total
b. Deferred Vested Participants
c. Retired Participants:
i. Participants in DROP
ii. Non-disabled $290 \quad 295$
iii. Disabled
iv. Beneficiaries
v. Sub-total
d. Total Participants

2. Total Annual Payroll
a. Elected Officers

| $\$ 671,022$ | $\$ 687,797$ |
| ---: | ---: |
| $\$ 20,648,253$ | $\$ 19,837,688$ |
| $\$ 5,696,407$ |  |
|  | $\$ 27,015,682$ |
| $\mathbf{\$ 2 7 , 6 6 4 , 0 5 8}$ |  |
| $\mathbf{\$ 1 1 , 5 6 8 , 3 7 4}$ | $\mathbf{\$ 2 7 , 9 5 7 , 2 0 9}$ |

b. Non-elected members (Plan 1)
c. Non-elected members (Plan 2)
d. Total

## 3. Total Projected Payroll

4. Total Retired Member Benefits
\$11,568,374
\$12,292,385
5. Derivation of Unfunded Accrued Liability (UAL)
a. Present Value of Future Benefits

$$
\$ 239,190,433
$$

\$264,100,067
b. Present Value of Future Normal Cost
( $\$ 29,737,174$ )
(\$32,393,212)

## Ciy Portion

(SI0,968,720)
( $\$ 15,224,765$ )
Member Portion
c. Actuarial Accrued Liability (AAL)
(S18,768,454)
(S17,168,447)
d. Actuarial Value of Assets
e. Unfunded Accrued Liability (c. + d.)
\$209,453,259
$\$ 231,706,855$
(\$153,291,563)
(\$163,311,844)
$\$ 56,161,696 \quad \$ 68,395,011$

|  | Fiscal Year 2017 | Fiscal Year 2018 |
| :---: | :---: | :---: |
| 6. Annual Cost (Payable Quarterly $1^{\text {st }}$ Payment 10/1) |  |  |
| a. Normal Cost | \$4,065,485 | \$4,489,845 |
| b. Payment to Amortize Unfunded Liability | \$3,901,409 | \$4,900,831 |
| c. Administrative Expenses | \$511,104 | \$528,242 |
| d. Interest Adjustment | \$944,162 | \$1,104,632 |
| e. Total (a. + b. + c. + d. $)$ | \$9,422,160 | \$11,023,550 |
| f. Expected Member Contributions | \$2,592,122 | \$2,633,793 |
| g. Expected City/County Contribution | \$6,830,038 | \$8,389,757 |
| h. Total (f. + g.) | \$9,422,160 | \$11,023,550 |

7. Annual Cost (Payable as a Single Lump Sum on 12/31)
a. Normal Cost
\$4,065,485
\$4,489,845
b. Payment to Amortize Unfunded Liability
$\$ 3,901,409$
c. Administrative Expenses
\$511,104
$\$ 4,900,831$
d. Interest Adjustment
e. Total (a. + b. $+\mathrm{c} .+$ d.)
f. Expected Member Contributions
\$856,114
\$528,242
g. Expected City/County Contribution
\$2,592,122
\$1,001,619
h. Total (f. + g.)
\$6,741,990
\$9,334,112
\$8,286,744
8. Annual Cost (as a \% of projected payroll)
a. Quarterly Bas is
i. Total Required Contribution

| $34.06 \%$ | $38.51 \%$ |
| ---: | ---: |
| $9.37 \%$ | $9.20 \%$ |
| $24.69 \%$ | $29.31 \%$ |

## b. Single Lump Sum Basis

i. Total Required Contribution

| $33.74 \%$ | $38.15 \%$ |
| ---: | ---: |
| $9.37 \%$ | $9.20 \%$ |
| $24.37 \%$ | $28.95 \%$ |

*Non-Elected members in Plan I contribute $10.0 \%$ of payroll, and $7.0 \%$ of payroll if in Plan 2 . The City contributes $10.0 \%$ of payroll on behalf of elected/appointed members.

## A. UNFUNDED ACCRUED ACTUARIAL LIABILITY (GAIN) / LOSS ANALYSIS

1. Actual Unfunded Accrued Actuarial Liability as of October I, 2015
\$56,161,696
2. Plan Sponsor Normal Cost for this Plan Year (including expenses) $\$ 1,984,467$
3. Interest on items 1 and $2[(1+2) \times 8 \%] \quad \$ 4,651,693$
4. Plan Sponsor Contribution for this Plan Year: $(\$ 6,545,407)$
5. Interest on item [ $4 \times 8 \% \times$.5]
(\$261,816)
6. Changes due to:
a. Assumption changes $\$ 15,767,946$
b. Plan amendments $\$ 0$
c. Funding Method \$0
d. Actuarial (Gain) / Loss (\$3,363,568)
7. Actual Unfunded Accrued Liability as of October 1, 2016:
\$68,395,011

$$
(1 .+2 .+3 .+4 .+5 .+6 .)
$$

8. Items Affecting Calculation of Unfunded Accrued Actuarial Liability:
a. Plan provisions reflected in the unfunded accrued liability (see Table XII)
b. Plan amendments reflected in item 4.c. above (see Table XIla)
c. Actuarial assumptions and methods used to determine actuarial accrued liability (see Table XI)
B. ASSET (GAIN) / LOSS ANALYSIS
9. Actuarial Value of Assets as of October 1,2015
\$153,291,563
10. Interest on item [la. x $8 \%$ ] $\$ 12,263,325$
11. Contributions for the 2015/2016 Plan Year
\$9,138,762
12. Interest on item [Ic. x $8 \% \times$.5]
\$365,550
13. Benefit Payments for 2015/2016 Plan Year (Including Expenses)
(\$13,261,326)
14. Interest on item [le. x 8\% x.5]
15. Expected Actuarial Value of Assets as of October 1,2016
16. Actuarial Value of Assets as of October 1, 2016
(\$530,453)
\$161,267,421
17. (Gain) / Loss
$\$ 163,311,844$
18. Unfunded Accrued Liability Contribution as of October 1, 2015:
19. Net Actuarial (Gains)/Losses During the 2015/2016 Plan Year:
a. Due to Salary
b. Due to Investment Performance
c. Due to Turnover/Mortality
d. Due to New Retirements
$\$ 75,653$
e. Due to Difference and Timing in Contributions
f. Due to Data/Service Adjustments/Benefit Payments \$136,405
g. Due to New Members $\$ 9,935$
h. Total
(\$119,329)
20. Change in Unfunded Acerued Liability Contribution During the 2015/2016 Plan Year:
a. Assumption changes (change to FRS mortality)
$\$ 1,025,117$
b. Method changes (valuation software/change in actuary) $\$ 0$
c. Plan changes $\$ 0$
d. Total change

$$
\$ 1,025,117
$$

4. Other Effects $\$ 93,634$
5. Unfunded Accrued Liability Contribution as of October 1, 2016
6. Comments on Change in Unfunded Accrued Liability Contribution:

Salary/Service: Actual average salary increase of $4.5 \%$ compared to expected increases of $5.9 \%$.
Investment Performance: $9.4 \%$ actual vs. $8.0 \%$ expected return on the actuarial value of assets.
Turnover: Net effect on the valuation liabilities of actual deaths, terminations of employment and disabilities different from what was anticipated in the aggregate by the assumptions related to those events.
New retirements: Net effect of differences in expected vs. actual numbers of, and benefits for, new retirements and refund of employee contributions.
Due to Differences and Timing of Contributions: Due to the one year lag of when the required contribution is determined and when it is deposited into the fund.
Data/Service Adiustments: Effect of service adjustments for service purchases.
Assumption Changes: Mortality updated to comply with Florida Statute 112.63(1)(f). Method Changes: None.
Plan Changes: None.
Other Effects: Assumed growth in the unfunded actuarial accrued liability contribution.

## A. Schedule of Funding Progress

(\$'s in thousands)

| Actuarial <br> Valuation Date | Actuarial Value of Assets (1) | Actuarial Accrued Liability (AAL) (2) | Unfunded <br> AAL <br> (UAAL) $(2)-(1)$ | Funded Ratio (1)/(2) | Covered Payroll (3) | UAAL as \% of Covered Payroll $[(2)-(1)] /(3)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10/1/2009 | \$118,955 | \$161,585 | \$42,630 | 73.6\% | \$27,477 | 155.1\% |
| 10/1/2010 | \$126,103 | \$169,995 | \$43,892 | 74.2\% | \$26,597 | 165.0\% |
| 10/1/2011 | \$125,170 | \$179,688 | \$54,518 | 69.7\% | \$26,238 | 207.8\% |
| 10/1/2012 | \$123,425 | \$185,014 | \$61,589 | 66.7\% | \$25,833 | 238.4\% |
| 10/1/2013 | \$132,248 | \$191,554 | \$59,306 | 69.0\% | \$25,923 | 228.8\% |
| 10/1/2014 | \$144,640 | \$200,747 | \$56,107 | 72.1\% | \$26,048 | 215.4\% |
| 10/1/2015 | \$153,292 | \$209,453 | \$56,162 | 73.2\% | \$27,016 | 207.9\% |
| 10/1/2016 | \$163.312 | \$231.707 | \$68,395 | 70.5\% | \$27,957 | 244.6\% |

Additional Information

Valuation date :
Actuarial cost method:
Amortization method:
Remaining amortization period:
Asset valuation method:
Actuarial assumptions:

| Investment rate of return | $\mathbf{8 . 0 0 \%}$ |
| :--- | :--- |
|  |  |
| Projected salary increases | 4.25 to $7.50 \%$ |
| Includes inflation at | $3.50 \%$ |
| Cost of living adjustments | $2.00 \%$ |

October 1, 2016
Entry Age Normal
Level Percent Closed
1 to 30 years
5 - Year Smoothed Market
8.00\%
4.25 to $7.50 \%$
3.50\%
2.00\%

Shown below is the development of the Total Present Value of Accrued Benefit for the Plan. The calculations were performed in accordance with Chapter 2011-216 Laws of Florida (SB 1128) which requires the calculation of the present value of accrued benefits be calculated using the Florida Retirement System's assumed rate of return of $7.60 \%$ in order to promote comparability of actuarial data between local plans.

1. Actuarial Present Value of Accrued Benefits

As of
October 1, 2015
a. Vested Accrued Benefits:
i. Inactive members and beneficiaries
ii. Active members
iii. Sub-total
b. Non-vested Accrued Benefits
c. Total Benefits
d. Market Value of Assets
c. Percentage Funded
$\$ 131,587,649$

| $\$ 63,066,112$ |
| ---: |
| $\$ 194,653,761$ |

$\begin{array}{r}\$ 195,928 \\ \hline \$ 194,849,689\end{array}$
$\$ 150,255,553$

As of
October 1, 2016
2. Statement of Changes in Total Actuarial Present Value of All Accrued Benefits
a. Actuarial Present Value as of October I, 2015: $\$ 194,849,689$
b. Increase (Decrease) During 2015/2016 Plan Year Attributable to:
i. Interest
ii. Benefits accumulated/experience $\$ 4525767$
iii. Benefits paid
\$4,525,767
iv. Plan amendments
( $\$ 12,735,090$ )
v. Changes in actuarial assumptions or methods
$\$ 15,436,683$
vi. Net increase (decrease)
$\mathbf{\$ 2 1 , 8 3 4 , 7 2 6}$
c. Actuarial Present Value as of October 1, 2016:
$\$ 216,684,415$

## 3. Items Affecting Calculation of Actuarial Present Value of Accrued Benefits

a. Plan provisions reflected in the accrued benefits (see Table XII on page 34)
b. Plan amendments reflected in item 2.b.iv. above
c. Actuarial assumptions and methods used to determine present values (see Table XI on page 30 )
d. Changes in actuarial assumptions and methods reflected in item 2.b.v. above

Shown below is the development of the Total Present Value of Accrued Benefit for the Plan. The calculations were performed using the Plan's discount rate of $8.0 \%$.

## 1. Actuarial Present Value of Accrued Benefits

As of
October 1, 2015
a. Vested Accrued Benefits:
i. Inactive members and beneficiaries
ii. Active members
iii. Sub-total
b. Non-vested Accrued Benefits
c. Total Benefits
d. Market Value of Assets
c. Percentage Funded
$\$ 128,517,777$

| $\$ 61,027,012$ |
| ---: |
| $\$ 189,544,789$ |
| $\$ 191,969$ |
| $\mathbf{\$ 1 8 9 , 7 3 6 , 7 5 8}$ |

\$150,255,553

As of
October 1, 2016

## 2. Statement of Changes in Total Actuarial Present Value of All Accrued Benefits

a. Actuarial Present Value as of October 1, 2015: $\mathbf{\$ 1 8 9 , 7 3 6 , 7 5 8}$
b. Increase (Decrease) During 2015/2016 Plan Year Attributable to:
i. Interest
\$14,669,537
ii. Benefits accumulated/experience
\$4,803,257
iii. Benefits paid (\$12,735,090)
iv. Plan amendments
v. Changes in actuarial assumptions or methods vi. Net increase (decrease)
\$11,278,493
$\mathbf{\$ 1 8 , 0 1 6 , 1 9 7}$
c. Actuarial Present Value as of October 1, 2016:
$\mathbf{\$ 2 0 7 , 7 5 2 , 9 5 5}$

## 3. Items Affecting Calculation of Actuarial Present Value of Accrued Benefits

a. Plan provisions reflected in the accrued benefits (see Table XII on page 34)
b. Plan amendments reflected in item 2.b.iv. above
c. Actuarial assumptions and methods used to determine present values (see Table XI on page 30 )
d. Changes in actuarial assumptions and methods reflected in item 2.b.v. above

| 1. Participant Data: | Actuarial valuation pre pared as of: <br> Prior to <br> Assumption <br> Changes |  |  |
| :---: | :---: | :---: | :---: |
|  | October I, 2015 | October 1, 2016 | October 1, 2016 |
| a. Active members: |  |  |  |
| i. Number | 467 | 477 | 477 |
| ii. Total annual payroll | \$27,015,682 | \$27.957.209 | \$27.957.209 |
| iii. Projected annual payroll | \$27,664,058 | \$28.628,182 | \$28,628,182 |
| b. Retirees and beneliciaries: |  |  |  |
| i. Number | 339 | 343 | 343 |
| ii. Total annualized benefit | \$9,468,865 | \$10,013,180 | \$10,013,180 |
| c. Disabled members receiving benefits: |  |  |  |
| i. Number | 19 | 18 | 18 |
| ii. Total annualized benefit | \$472,532 | \$426.278 | \$426.278 |
| d. Members in DROP: |  |  |  |
| i. Number | 44 | 48 | 48 |
| ii. Total annualized benefit | \$1,626,977 | \$1,852,927 | \$1,852,927 |
| e. Terminated vested members: |  |  |  |
| i. Number | 27 | 29 | 29 |
| ii. Total annualized benefit | \$471,017 | \$513,415 | \$513,415 |

## 2. Assets:

| a. Actuarial value of assets | $\$ 153,291.563$ | $\$ 163,311,844$ | $\$ 163,311,844$ |
| :--- | :--- | :--- | :--- |
| b. Market value of assets | $\$ 150,255,553$ | $\$ 160,422,298$ | $\$ 160,422,298$ |

## 3. Liabilities:

a. Present value of all future expected benefit payments: i. Active members:

| Retirement benefits | \$101,442.966 | \$100.286,378 | \$109,778,706 |
| :---: | :---: | :---: | :---: |
| Vesting benefits | \$2,647,619 | \$2,636.982 | \$2,877,145 |
| Disability benefits | \$3,025,334 | \$3,633,810 | \$3,142,827 |
| Death benefits | \$2,570,409 | \$2,546,810 | \$1,694,131 |
| Return of member contributions | \$986,328 | \$449.119 | \$437,758 |
| Sub-total | \$110,672,656 | \$109.553.099 | \$117,930,567 |
| Terminated vested members | \$3,803.724 | \$4,360,905 | \$4,652.522 |
| Retired members and beneficiaries: |  |  |  |
| Retirees, members in DROP, and beneficiaries | \$119.589.854 | \$127,538,211 | \$137,166,949 |
| Disabled members | \$5,124,199 | \$4.495.107 | \$4,350,029 |
| Sub-total | \$124.714.053 | \$132.033.318 | \$141.516.978 |
| Total present value of all future expected ben. pmts. | \$239,190,433 | \$245,947.32? | \$264,100,067 |


|  | Actuar <br> Octoiner 1, 2015 | valuation prepare <br> Prior to Assumption Changes <br> October 1, 2016 | d as of: <br> October 1, 2016 |
| :---: | :---: | :---: | :---: |
| b. Liabilites due and unpaid | \$0 | \$0 | \$0 |
| c. Active actuarial accrued liability | \$80,935,482 | \$79,544,686 | \$85,537,355 |
| d. Inactive actuarial accrued liability | \$128,517.777 | \$136.394.223 | \$146,169,500 |
| c. Total actuarial accrued linbility | \$209,453,259 | \$215,938,909 | \$231,706,855 |
| f. Unfunded actuarial accrued liabidity (please reference Table Va for details conceming the unfiuded hability bases and amortization peniods) | \$56,161,696 | \$52,627,065 | \$68,395,01] |
| 4. Actuarial Present Value of Accrued Benefits: (please reference Table IV for details conceming the present value ofaccrued benefils) | \$194,849,689 | \$201,247,732 | \$216,684,415 |
| 5. Pension Cost (asa \% of annual payroll): |  |  |  |
| a. Normal cost plus projected administrative expenses | 16.54\% | 16.26\% | 17.53\% |
| Dollar amount | \$4,576.589 | \$4,654,227 | \$5,018,087 |
| b. Payment to amorize unfunded linbility | 14.10\% | 13.54\% | 17.12\% |
| Dollar amount | \$3,901,409 | \$3,875,714 | \$4,900,831 |
| c. Interest adjustment Dollar amount | $\begin{gathered} 3.42 \% \\ 99+4.162 \end{gathered}$ | $\begin{array}{r} 3.31 \% \\ \$ 9.49,947 \end{array}$ | $\begin{array}{r} 3.86 \% \\ \$ 1.104,632 \end{array}$ |
| d. Amount to be contributed by members | 9.37\% | 9.20\% | 9.20\% |
| Dollar amount | \$2.592,122 | \$2,633,793 | \$2,633,793 |
| c. City Minimum Conlribution | 24.69\% | 23.91\% | 29.31\% |
| Dollar amount | \$6,830,038 | \$6,846,095 | \$8.389,757 |


|  | Fiscal Year 2014/2015 | Fiscal Year 2015/2016 | Fiscal Year 2015/2016 |
| :---: | :---: | :---: | :---: |
| 6. Past Contributions: |  |  |  |
| a. Required Cily \& County contribution | \$6.669,132 | \$6.545,407 | \$6.545.407 |
| b. Aclual contribution made by: |  |  |  |
| i. City | \$6,259,058 | \$6,153,050 | \$6,153,050 |
| ii. County | \$410,074 | \$392,357 | \$392.357 |
| iii. Members | \$2,562,901 | \$2.593.355 | \$2,593,355 |
|  | Actuaria | valuation prepar Prior to Assumption Changes | das of: |
|  | October 1, 2015 | October 1, 2016 | Octoher 1, 2016 |
| 7. Net actuarial (gain) / loss: | 379,861 | (3,363,568) | (3.363,568) |
| 8. Other disclosures: |  |  |  |
| a. Present value of active members': |  |  |  |
| i. Future salaries: at attained age | \$20-4,220,693 | \$210,421,346 | \$191,452,190 |
| at entry age | N/A | N/A | N/A |
| ii. Future contributions: |  |  |  |
| at atained age | \$18,768,454 | \$18,900,554 | \$17,168,447 |
| at entry age | N/A | N/A | N/A |
| b. Present value of future nomal contributions from City | \$10.968,720 | \$11,107,859 | \$15,224,765 |
| c. Present value of future expected benefit payments for active members at entry age | N/A | N/A | N/A |
| d. Amount of active members' accumulated contributions | \$26,520,864 | \$26,787,675 | \$26,787,675 |

Table Va
ज
$\begin{array}{r}\begin{array}{c}\text { Balance as or } \\ \text { October_1. } 2016\end{array} \\ \hline\end{array}$

$(\$ 195,991)$
$(\$ 6+5,230)$
$\$ 516,916$
$(\$ 71,697)$
$(\$ 187,111)$
$\$ 107,192$
$(\$ 168,228)$
$(\$ 229,976)$
$\$ 245,991$
$(\$ 1,053,389)$
$(\$ 1,350,379)$
$(\$ 5,481,806)$
$(\$ 3,724,551)$
$(\$ 5,138.454)$
 $\$ 8,251,129$
$\$ 10,655,423$ $\$ 10,655,423$
$\$ 4,813,818$ $\$ 5.351 .795$
$\$ 7.038 .859$ 6
0
0
0
0
0

 $\$ 10,733,193$

 $\stackrel{\rightharpoonup}{2}$
$\stackrel{y}{8}$
$\stackrel{y}{4}$


| $\rightrightarrows$ |
| :--- |
|  |
|  |
|  |
| 0 |
| 0 |
| 0 | $\$ 1,662,787$

$(\$ 180,749)$
$(\$ 376,257)$
$\$ 180.600$
 $(\$ 304.735)$
$\$ 290.132$ $(\$ 1.175,801)$
$(\$ 1.384,333)$

 $(\$ 4,863,161)$
$(\$ 1,480,206)$
 $\$ 9.987,004$
$\$ 4.483,179$






 ( $\$ 3.814,042$ )

## Descriplion

## 1986 Experience (Gain)/Loss

 1987 Experience (Gain)/Loss 1988 Experience (Gain)/Loss 1989 Experience (Gain)/Loss 1990 Experience (Gain)/Loss 1991 Experience (Gain)/Loss 1992 Experience (Gain)/Loss 1993 Experience (Gain)/Loss 1994 Experience (Gain)/Loss 1995 Experience (Gain)/Loss 1996 Experience (Gain)/Loss 1997 Experiunce (Gain)/Loss 1998 Experience (Gain)/Loss 1999 Experience (Gain)/Loss 2000 Experience (Gain)/Loss 2001 Experience (Gain)/Loss 2002 Experience (Gain)/Loss 2003 Experience (Gain)/Loss 2004 Experience (Gain)/Loss 2006 Experience (Gain)/Loss 2007 Experience (Gain)/Loss 2008 Experience (Gain)/Loss 2009 Experience (Gain )/Loss
 2011 Expericnce (Gain)/Loss 2012 Expericnce (Gain)/Loss 2013 Expericnce (Gain)/Loss 2014 Experience (Gain)/Loss 2015 Experience (Gain)/Loss 2016 Experience (Gain)/Loss

$$
\begin{gathered}
\$ 0 \\
(\$ 339,150) \\
\$ 362,188 \\
(\$ 56,502) \\
(\$ 157,250) \\
\$ 93,816 \\
(\$ 151,407) \\
(\$ 211,245) \\
\$ 229,488 \\
(\$ 994,770) \\
(\$ 1,287,814) \\
(\$ 5,270,167) \\
(\$ 3.604,961) \\
(\$ 5,001,915) \\
(\$ 1,507,045) \\
\$ 8,105,391 \\
\$ 10,505,872 \\
\$ 4.761,654 \\
\$ 5.308,993 \\
\$ 7,000.387 \\
(\$ 3,854,205) \\
\$ 369.168 \\
\$ 2,396,043 \\
\$ 15.559,645 \\
\$ 1,588,836 \\
\$ 10,789,918 \\
\$ 6,698,834 \\
(\$ 3,089,003) \\
(\$ 3.815 .181) \\
(\$ 411,286) \\
(\$ 3,814,042)
\end{gathered}
$$

$$
\begin{gathered}
\text { Years } \\
\text { Remaining } \\
\text { Oclober } 1,201
\end{gathered}
$$

Table Va

1987 Plan Amendment Eliminate Age 55 Restriction
1988 Plan Amendment 10 Year Clifr Vestiag
1990 Plan Amendment 10 Year Sve for Non-Sre Disability
1992 Plan Amendment Tax Complance/Pick-Up Ptan
1994 Plan Amendment Change Pre-Retirement Death Benefits
2000 Plan Amendment COLA
2004 Plan Amendment DROP
2004 Plan Amendment Elected Orficialg/Appointees
2006 Plan Amendment $275 \%$ Muln iplier
2008 Plan Amendment Senior Managers
2009 Plan Amendment Senior Managers
2015 Plan Amendment 7 Year Vesting

1986 Assumpt ion Change 1996 Assumption Change 1994 Assumption Change 1995 Assumption Change
1996 Assumption Clange 1997 Assumption Change 1997 Assumption Change Assumption Change 2016 Assumption Change 1986 Assumpion Chage 2002 Assumption Change品
boy

 $\mathbf{\$ 1 0 , 1 1 9}$
$\mathbf{\$ 3 , 2 8 4}$






$\$ 889,250\}$
$\$ 777.273$
514.128 .578 $\$ 15.767 .946$
管







Table Va



City of Pompano Beach general Employees' Retirement System
1987 Method Change 2002 Method Change 2010 Method Change
2000 Variable Benefit
2001 Variable Benefit
Total

## As of

October 1, 2015

## 1. Market Value of Assets

a. Cash and cash equivalents (3.32\%)
b. U.S. government bonds ( $5.24 \%$ )
c. Common stock ( $\mathbf{3 6 . 0 9 \%}$ )
d. Corporate bonds and notes ( $9.54 \%$ )
e. Equity Funds ( $25.22 \%$ )
f. Private equity funds ( $8.47 \%$ )
g. Real estate (12.01\%)
h. Net receivables and other ( $0.48 \%$ )
i. Accrued expenses payable ( $-0.1 \%$ )
j. Payable for securities purchased $(-0.28 \%)$
k. Market value of assets ( $100 \%$ )

As of
October 1, 2016
\$5,326,508
\$8,411,278
\$57,901,290
\$15,308,876
\$40,453,134
\$13,584,672
\$19,265,116
\$777,973
(\$160,531)
( $\$ 446,018$ )
\$160,422,298

## 2. Actuarial Value of Assets

a. Market Value of Assets
$\$ 150,255,553$
$\$ 160,422,298$
b. 5 -year phase-in of gain/(losses) on Actuarial Value of Assets:

| i. 2011/2012 | \$9,395,696 | $\times 20 \%=$ | \$1,879,139 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ii. 2012/2013 | \$10,969,696 | $x 40 \%=$ | \$4,387,878 | $\times 20 \%=$ | \$2,193,939 |
| iii. 2013/2014 | \$1,064,565 | $\times 60 \%=$ | \$638,739 | $\times 40 \%=$ | \$425,826 |
| iv. 2014/2015 | (\$12,427,208) | $x 80 \%=$ | $(\$ 9,941,766)$ | $x 60 \%=$ | (\$7,456,325) |
| v. 2015/2016 | \$2,433,768 |  |  | $x 80 \%=$ | \$1,947,014 |
| vi. Total unrecognized (losses)/gains |  |  | (\$3,036,010) |  | (\$2,889,546) |
| c. Preliminary Actuarial Value of Assets (Item a. minus item e.vi.) |  |  | \$153,291,563 |  | \$163,311,844 |
|  |  |  |  |  |  |
| d. Corridor around Actuarial Value of Assets |  |  |  |  |  |
| i. $80 \%$ of Mar | Value (item a ) |  | \$120,204,442 |  | \$128,337,838 |
| ii. $120 \%$ of Ma | Value (item a.) |  | \$180,306,664 |  | \$192,506,758 |
| e. Actuarial Value | Assets |  | \$153,291,563 |  | \$163,311,844 |


|  | As of October 1, 2015 | As of October 1, 2016 |
| :---: | :---: | :---: |
| 1. Beginning of Year Market Value | \$154,313,634 | \$150,255,553 |
| 2. Expected Interest on Assets | \$12,345,091 | \$12,020,444 |
| 3. Contributions | \$9,232,033 | \$9,138,762 |
| 4. Benefit Payments | (\$12,524,827) | (\$12,735,090) |
| 5. Administrative Expenses | ( $\$ 530,248$ ) | (\$526,236) |
| 6. Interest on 3, 4, and 5 | (\$152,922) | (\$164,903) |
| 7. Expected End of Year Market Value | \$162,682,761 | \$157,988,530 |
| 8. Actual End of Year Market Value | \$150,255,553 | \$160,422,298 |
| 9. Gain/(Loss) for Plan Year | (\$12,427,208) | \$2,433,768 |


|  | As of <br> October 1,2015 |  | As of <br> October 1,2016 |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |
| 1. Beginning of Year Market Value: | $\$ 154,313,634$ |  | $\$ 150,255,553$ |

2. Increases Due to:
a. Contributions:

| i. City | \$6,259,058 | \$6,153,050 |
| :---: | :---: | :---: |
| ii. County | \$410,074 | \$392,357 |
| iii. Employee | \$2,562,901 | \$2,593,355 |
| iv. Total | \$9,232,033 | \$9,138,762 |
| b. Investment income | $(\$ 235,039)$ | \$14,289,309 |
| c. Total increases | \$8,996,994 | \$23,428,071 |

3. Decreases Due to:

| a. Benefit payments | $\$ 12,286,072$ | $\$ 12,536,330$ |
| :--- | ---: | ---: |
| b. Refund of member contributions | $\$ 238,755$ | $\$ 198,760$ |
| c. Administrative expenses | $\$ 530,248$ | $\$ 526,236$ |
| d. Miscellaneous | $\$ 0$ | $\$ 0$ |
| e. Total decreases | $\$ 13,055,075$ |  |
|  |  | $\$ 13,261,326$ |
| 4. End of Year Market Value: | $\mathbf{\$ 1 5 0 , 2 5 5 , 5 5 3}$ | $\mathbf{\$ 1 6 0 , 4 2 2 , 2 9 8}$ |

## Historical Market Value (Assets \& Return)



Plan Year (Assets as of October 1)


| $\begin{aligned} & \text { Plan } \\ & \text { Year } \end{aligned}$ | Market <br> Value as of Octobst 1 | Actuarial <br> Value as of October I | Benefit <br> Pavments | Administrative <br> Expenses | City, County, and Member Contributions | Markel <br> Value <br> Return | Actuaria <br> Value <br> Relum |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20012002 | \$76,424,845 | \$91,709,814 | \$3,254,038 | \$250,351 | \$2,140,762 | (5.30)\% | (1.80)\% |
| 2002/003 | \$85,458,520 | \$94,741,607 | \$3,556,707 | \$282,053 | \$2,803,247 | $1330 \%$ | +50\% |
| 2003/200- | \$92,735,898 | \$96,735,577 | \$3,895,060 | \$330,446 | \$3,481,462 | 940\% | 290\% |
| 20042005 | \$99,890,915 | \$98,980,085 | \$4,967,607 | \$387,998 | \$4,039,559 | 9.10\% | 370\% |
| 2005/2006 | \$109,249,514 | \$107,334,005 | \$4,862,124 | \$25,926 | \$4,905,164 | $890 \%$ | 8.80\% |
| 2006/2007 | \$126,184,+49 | \$118,772,822 | \$5,376,897 | \$482,702 | \$6,246,138 | 15.10\% | $1030 \%$ |
| 2007/2008 | \$106,187,212 | \$124,869,067 | \$6,521,687 | \$531,899 | \$6,506,416 | (15.70)\% | 5.30\% |
| 2008/2009 | \$99,128,822 | \$118,954,587 | \$6,309,625 | \$517,272 | \$6,584,631 | (6.40)\% | (460)\% |
| 20092010 | \$106,118,339 | \$126,102,821 | \$7,081,623 | \$5+1,663 | \$7,207,4+1 | 7.49\% | 637\% |
| 20102011 | \$106.693,934 | \$125,170,479 | \$7,858,299 | \$483,8+3 | \$8,032,038 | $08.4 \%$ | (0.49)\% |
| 20112012 | \$123,122,925 | \$123,424,957 | \$9,328,455 | \$ $+90,1+2$ | \$8,374,155 | 16.87\% | (024)\% |
| 2012/2013 | \$143,522,730 | \$132,247,827 | \$8.781.030 | \$479,816 | \$8,857,264 | 16.92\% | 7 49\% |
| 2013/2014 | \$154,313,634 | \$144,640,159 | \$10,409,539 | \$491,959 | \$9,213.527 | 8.75\% | $1072 \%$ |
| 2014/2015 | \$150,255,553 | \$153,291,563 | \$12,52+,827 | \$530,248 | \$9,232,033 | (0 15)\% | 874\% |
| 2015/2016 | \$160,422,298 | \$163,311,84+ | \$12,735,090 | \$526,236 | \$9,138,762 | $964 \%$ | $935 \%$ |

REVENUES

| Fiscal <br> Year | City and County Contributions | Member Contributions | Sub-Total | Net Investment Income | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2002/2003 | \$1.228.956 | \$1.574,29] | \$2,803,247 | \$10,069,188 | \$12,872,435 |
| 2003/2004 | \$1,849,695 | \$1.631.767 | S3,481,462 | \$8,021.422 | 4 |
| 2004/2005 | \$2,341,224 | \$1,698,335 | $\mathbf{\$ 4 , 0 3 9 , 5 5 9}$ | \$8.471.063 | 22 |
| 2005/2006 | \$3,144,061 | \$1,761,103 | \$4,905,164 | \$9.741,485 | \$14,646,649 |
| 2006/2007 | \$4.064.240 | \$2,181.898 | \$6,246,138 | \$16,548,396 | \$22,794,534 |
| 2007/2008 | \$3.416.488 | \$3,089,928 | \$6,506,416 | (\$19,450,067) | (\$12,943,651) |
| 2008/2009 | \$3,706,870 | \$2,877.761 | \$6,584,631 | (\$6,816,124) | $(\$ 231,493)$ |
| 2009/2010 | \$4,338.870 | \$2,868,571 | \$7,207,441 | \$7.405.362 | \$14,612,803 |
| 2010/2011 | \$5,351.521 | \$2,680,517 | \$8,032,038 | \$885.699 | \$8,917,737 |
| 2011/2012 | \$5,801,971 | \$2,572,184 | S8,374,155 | \$17.873.433 | S26,247,588 |
| 2012/2013 | \$6,332.731 | \$2.524,533 | \$8,857,264 | \$20,803.387 | \$29,660,651 |
| 2013/2014 | \$6,697,862 | \$2.515,665 | \$9,213,527 | \$12,478,865 | \$21,692,392 |
| 2014/2015 | \$6,669,132 | \$2.562.901 | \$9,232,033 | (\$235.039) | \$8,996,994 |
| 2015/2016 | \$6.545.407 | \$2.593.355 | \$9,138,762 | \$14,289.309 | \$23,428,071 |

EXPENSES

| Fiscal | Benefits <br> Year | Member <br> Refunds | Administrative <br> Expenses* | Total |
| :---: | ---: | :---: | ---: | ---: |
| $2002 / 2003$ | $\$ 3,365,295$ | $\$ 191,412$ | $\$ 282,053$ | $\$ 3,838,760$ |
| $2003 / 2004$ | $\$ 3,712,048$ | $\$ 183,012$ | $\$ 330,446$ | $\$ 4,225,506$ |
| $2004 / 2005$ | $\$ 4,695,826$ | $\$ 271,781$ | $\$ 387,998$ | $\$ 5,355,605$ |
| $2005 / 2006$ | $\$ 4,641,050$ | $\$ 221,074$ | $\$ 425,926$ | $\$ 5,288,050$ |
| $2006 / 2007$ | $\$ 5,009,768$ | $\$ 367,129$ | $\$ 482,702$ | $\$ 5,859,599$ |
| $2007 / 2008$ | $\$ 6,333,970$ | $\$ 187,717$ | $\$ 531,899$ | $\$ 7,053,586$ |
| $2008 / 2009$ | $\$ 6,010,437$ | $\$ 299,188$ | $\$ 517,272$ | $\$ 6,826,897$ |
| $2009 / 2010$ | $\$ 6,991,324$ | $\$ 90,299$ | $\$ 541,663$ | $\$ 7,623,286$ |
| $2010 / 2011$ | $\$ 7,580,413$ | $\$ 277,886$ | $\$ 483,843$ | $\$ 8,342,142$ |
| $2011 / 2012$ | $\$ 9,122,607$ | $\$ 205,848$ | $\$ 490,142$ | $\$ 9,818,597$ |
| $2012 / 2013$ | $\$ 8,621,962$ | $\$ 159,068$ | $\$ 479,816$ | $\$ 9,260,846$ |
| $2013 / 2014$ | $\$ 10,047,279$ | $\$ 362,250$ | $\$ 491,959$ | $\$ 10,901,488$ |
| $2014 / 2015$ | $\$ 12,286,072$ | $\$ 238,755$ | $\$ 530,248$ | $\$ 13,055,075$ |
| $2015 / 2016$ | $\$ 12,536,330$ | $\$ 198,760$ | $\$ 526,236$ | $\$ 13,261,326$ |

[^0]

* Please reference Table VIla on page 21 for the historical benefit payments, expenses, and contributions.

|  | $\begin{gathered} \text { As of } \\ \text { October } 1,2015 \\ \hline \end{gathered}$ | As of October 1, 2016 |
| :---: | :---: | :---: |
| 1. Active Members |  |  |
| a. Vested | 227 | 308 |
| b. Non-vested | 240 | 169 |
| c. Sub-total | 467 | 477 |
| 2. Non-active, Non-retired Members |  |  |
| a. Fully or partially vested | 27 | 29 |
| 3. Retired Members |  |  |
| a. Members in DROP | 44 | 48 |
| b. Retirees | 290 | 295 |
| c. Disabled | 19 | 18 |
| d. Beneficiaries | 49 | 48 |
| e. Sub-total | 402 | 409 |
| 4. Total Members | 896 | 915 |



| Date | Average <br> Service <br> Earned | Average <br> Attained <br> Age |  |
| :---: | :---: | :---: | :---: |
|  | October 1, 2007 |  | 10.7 |
|  | 45.2 |  |  |
| October 1, 2008 |  | 10.1 |  |
| October 1, 2009 |  | 11.3 |  |
| October 1, 2010 |  | 11.4 |  |
| October 1, 2011 |  | 10.7 |  |
| October 1, 2012 |  | 10.1 |  |
| October 1, 2013 |  | 11.7 |  |
| October 1, 2014 |  | 11.5 |  |
| October 1, 2015 | 11.4 | 47.8 |  |
| October 1, 2016 | 11.0 | 47.4 |  |



| Date | Average Salary | Actual <br> Salary <br> Increase | Assumed <br> Salary <br> Increase |
| :---: | :---: | :---: | :---: |
| October 1, 2007 | 52,393 | 9.20\% | 6.10\% |
| October 1, 2008 | 53,303 | 2.40\% | 6.40\% |
| October 1, 2009 | 54,245 | 2.80\% | 6.30\% |
| October 1, 2010 | 54,952 | 2.50\% | 5.80\% |
| October 1,2011 | 54,777 | 1.62\% | 5.72\% |
| October 1, 2012 | 54,732 | 1.59\% | 5.75\% |
| October 1, 2013 | 54,118 | 1.44\% | 5.75\% |
| October 1, 2014 | 55,659 | 5.38\% | 5.75\% |
| October 1, 2015 | 57,849 | 5.72\% | 5.78\% |
| October 1, 2016 | 58,611 | 4.45\% | 5.89\% |



Average benefit being paid to non-disabled retirees is $\$ 2,599.34$ per month.
Average benefit being paid to disabled retirees is $\$ 1,973.51$ per month.
Average benefit being paid to beneficiaries is $\$ 1,408.91$ per month.


| Attained Age | Under | 1104 | 5 to 9 | 10 to 14 | Completed Years ofService |  |  | 30 to 34 | 35 to 39 | 40 \& Up | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 15 to 19 | 20 to 24 | 25 to 29 |  |  |  |  |
| Under 25 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Avg. Pay | 35,385 | 32,132 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33,217 |
| 25 to 29 | 2 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Avg. Pay | 42,476 | 37,695 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38,130 |
| 30 to 34 | 1 | 21 | 14 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Avg. Pay | 35,383 | 42,830 | 51,249 | 52,420 | 0 | 0 | 0 | 0 | 0 | 0 | 47,202 |
| 35 to 39 | 4 | 9 | 7 | 15 | 9 | 0 | 0 | 0 | 0 | 0 | 44 |
| Avg. Pay | 42,135 | 55,905 | 57,360 | 51,173 | 35,715 | 0 | 0 | 0 | 0 | 0 | 53,233 |
| 40 to 44 | 4 | 16 | 14 | 19 | 16 | 7 | 0 | 0 | 0 | 0 | 76 |
| Avg. Pay | 4,411 | 61,024 | 62,296 | 59,949 | 59,620 | 60,855 | 0 | 0 | 0 | 0 | 59,804 |
| 45 to 49 | 4 | 12 | 13 | 15 | 12 | 6 | 9 | 0 | 0 | 0 | 71 |
| Avg. Pay | 41,586 | 49,741 | 53,844 | 52,932 | 72.035 | 65,600 | 71.770 | 0 | 0 | 0 | 58,608 |
| 501054 | 2 | 9 | 13 | 19 | 11 | 17 | 9 | 10 | 1 | 0 | 91 |
| Avg. Pay | 46,248 | 56,030 | 63,239 | 57,947 | 59,783 | 69,767 | 70,152 | 60,308 | 81,102 | 0 | 62,408 |
| 551059 | 2 | 17 | 9 | 19 | 16 | 5 | 4 | 2 | 0 | 0 | 74 |
| Avg. Pay | 32.575 | 52,966 | 56,980 | 61,582 | 72,368 | 64,721 | 72,873 | 110,764 | 0 | 0 | 62,743 |
| 601064 | 2 | 6 | 6 | 5 | 10 | 1 | 2 | 0 | 0 | 0 | 32 |
| Avg. Pay | 36,958 | 6-4,105 | 63,873 | 70,514 | 70,535 | 72,659 | 58,898 | 0 | 0 | 0 | 65,318 |
| 65 to 79 | 0 | 4 | 5 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 15 |
| Avg. Pay | 0 | 79,345 | 82,423 | 90,554 | 0 | 61,721 | 0 | 124,677 | 0 | 0 | 83,285 |
| 70 \& Up | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 4 |
| Avg. Pay | 0 | 0 | 0 | 41,172 | 47,419 | 0 | 54,894 | 0 | 0 | 0 | 46,164 |
| Total | 22 | 116 | 81 | 106 | 75 | 38 | 25 | 13 | 1 | 0 | 477 |
| Avg Pay | 40,901 | 50,868 | 59,523 | 58,019 | 65,174 | 66,436 | 69,659 | 73,022 | 81,102 | 0 | 58,611 |



| Plan Year | Actual Member | City/County | Total |
| :---: | :---: | :---: | :---: |
| 2002/2003 | \$1,574,291 | \$1,228,956 | \$2,803,247 |
| 2003/2004 | \$1,631,767 | \$1,849,695 | \$3,481,462 |
| 2004/2005 | \$1,698,335 | \$2,341,224 | \$4,039,559 |
| 2005/2006 | \$1,761,103 | \$3,144,061 | \$4,905,164 |
| 2006/2007 | \$2,181,898 | \$4,064,240 | \$6,246,138 |
| 2007/2008 | \$3,089,928 | \$3,416,488 | \$6,506,416 |
| 2008/2009 | \$2,877,761 | \$3,706,870 | \$6,584,631 |
| 2009/2010 | \$2,868,571 | \$4,338,870 | \$7,207,441 |
| 2010/2011 | \$2,680,517 | \$5,351,521 | \$8,032,038 |
| 2011/2012 | \$2,572,184 | \$5,801,971 | \$8,374,155 |
| 2012/2013 | \$2,524,533 | \$6,332,731 | \$8,857,264 |
| 2013/2014 | \$2,515,665 | \$6,697,862 | \$9,213,527 |
| 2014/2015 | \$2,562,901 | \$6,669,132 | \$9,232,033 |
| 2015/2016 | \$2,593,355 | \$6,545,407 | \$9,138,762 |

## 1. Actuarial Cost Method

- Entry Age Normal Cost Method. Total normal cost is determined as a level percentage of pay which would be required annually from entry age to retirement age to fund the expected retirement benefits assuming the Plan had always been in effect. The Actuarial Accrued Liability is the amount of the Present Value of Benefits that have been accrued under the Entry Age Normal Method to date.

2. Decrements

- Pre-Retirement Healthy Mortality

Female: RP2000 Generational, 100\% Combined Healthy White Collar, Scale BB Male: RP2000 Generational, 50\% Combined Healthy White Collar / 50\% Combined Healthy Blue Collar, Scale BB

- Post-Retirement Healthy Mortality

Female: RP2000 Generational, 100\% Annuitant White Collar, Scale BB
Male: RP2000 Generational, 50\% Annuitant White Collar / 50\% Annuitant Blue Collar, Scale BB

- Post-Retirement Disabled Mortality

Female: RP2000, 100\% Disabled Female set forward two years, no projection scale Male: RP2000, 100\% Disabled Male setback four years, no projection scale

## - Disability

Representative values of the assumed annual rates of disability among members in active service are as follows:

| Age | Ordinary <br> Disability <br> Rate | Service <br> Disability <br> Rate | Age | Ordinary <br> Disability <br> Rate | Service <br> Disability <br> Rate |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| 20 | .000232 | .000058 | 40 | .000484 | .000121 |
| 25 | .000232 | .000058 | 45 | .000868 | .000217 |
| 30 | .000232 | .000058 | 50 | .001716 | .000429 |
| 35 | .000260 | .000065 | 55 | .003564 | .000891 |

- Retirement

Representative values of the assumed annual rates of retirement among members in active service are as follows:

| Age | Rate |
| :---: | :---: |
|  |  |
| $\leq 54$ | .0700 |
| 55 | .5000 |
| $56-60$ | .3000 |
| $61-65$ | .5000 |
| $66-69$ | .3000 |
| $\geq 70$ | 1.000 |

- Withdrawal from Active Status

Representative values of the assumed annual rates of withdrawal among members in active service are as follows:

| Age | Years of Service |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{0 - 1}$ | $\mathbf{1 - 2}$ | $\mathbf{2 - 3}$ | $\mathbf{3 - 4}$ | $\mathbf{4 +}$ |  |
|  |  |  |  |  |  |  |
| 20 | .1800 | .1200 | .1000 | .0700 | .1071 |  |
| 25 | .1800 | .1200 | .1000 | .0700 | .0756 |  |
| 30 | .1800 | .1200 | .1000 | .0700 | .0536 |  |
| 35 | .1800 | .1200 | .1000 | .0700 | .0416 |  |
| 40 | .1800 | .1200 | .1000 | .0700 | 0321 |  |
| 45 | .1800 | .1200 | .1000 | .0700 | .0227 |  |
| 50 | .1800 | .1200 | .1000 | .0700 | .0132 |  |
| 55 | .1800 | .1200 | .1000 | .0700 | .0038 |  |

## 3. Interest Rates

- Used for calculating all liabilities
$>8.00 \%$ per annum
- Used for calculating the Present Value of Accrued Benefits
> $7.60 \%$ (Same as the Florida Retirement System)


## 4. Salary Increase

- Individual Compensation:

| Service | Rate |
| :---: | :---: |
|  |  |
| $0-10$ | $7.50 \%$ |
| $>10$ | $4.25 \%$ |

- Aggregate Compensation
2.4\% per year


## 5. Marriage Assumptions

- Percent Married: $100 \%$ of active members assumed married at retirement.

1. Age Differences between Spouses: Male spouses are assumed to be three years older than female spouses.
2. Expenses:

Expenses paid out of the fund, other than investment-related expenses, are assumed to be equal to the average of actual expenses over the previous two years.

## 7. DROP

2. Entry: Of those assumed to retire using the Service Retirement rates, the proportion entering DROP is as shown in the following table.

| Age at | Proportion <br> Entering |
| :---: | :---: |
| Retirement | DROP |
| Under 55 | $0 \%$ |
| $55-62$ | $70 \%$ |
| Over 62 | $10 \%$ |

3. Period: DROP participants are assumed to remain in the DROP for a total of five years.
4. Assets

The market value of assets is adjusted to recognize, over a five-year period, investment earnings greater (or less than) the assumed investment return. The resulting Actuarial Value of Assets is limited to no more than $120 \%$ of the market value of assets and no less than $80 \%$ of the market value of assets. Details are shown in the Asset Information Section of the report.

## 9. Amortization Period

New Unfunded Actuarial Accrued Liability resulting from plan amendments, changes in assumptions or methods, or actuarial gains and loss are amortized over 30 years as a level percentage of expected payroll based on the plan's assumed rate of investment return.

## 10. BSO Required Contribution

The required contribution for the Broward Sheriff's Office (BSO) is determined by multiplying the total required contribution rate as a percentage of payroll by the payroll for BSO employees, projected to the following year.

## 11. Data Sources

## 4. Asset Data:

The asset information is taken from audited statements furnished by the Retirement Office, and adjusted to include DROP Accounts as liabilities of the Plan. The DROP Account balances are added to net asset amount shown in the audited statement. The valuation entry for benefits paid during the last years reflects benefit amounts explicitly paid from the Plan (including the payout of DROP Accounts) and does not reflect those paid into members' DROP accounts.

## 5. Member Data;

The member data is supplied by the Retirement Office. It is reviewed for reasonableness and consistency, but no audit was performed. Cavanaugh Macdonald is not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations.

## Effective Date:

Plan 1: $\quad$ December 8, 1972
Plan 2: June 8, 2011

## Eligibility:

Regular full-time employment with the City (at least 26 hours per week and 5 months per year), including Elected Officials, Appointees, and Senior Managers.

## Earnings:

Basic compensation and regular longevity pay, increased for temporary upgrade pay. Lump sum payment at termination for unused sick leave and vacation time is not included.

## Average Monthly Earnings (AME):

Plan 1: $\quad$ Monthly average for the highest completed 78 bi-weekly pay periods during employment times 1.0048 .

Plan 2: Monthly average for the highest completed $\mathbf{I} 30$ bi-weekly pay periods during employment times 1.0048 .

## Credited Service:

Total years and completed months of service from the last date of hire to the date of termination, retirement, death, or disability.

## Normal Retirement

## Eligibility (Normal Retirement Date):

The earlier of attainment of age 55 with 20 years of Continuous Service, or age 62 with 3 years of Credited Service as a "regular employee" with the City.

## Benefit:

Plan 1: $\quad 2.75 \%$ of AME times years of service.
Plan 2: $\quad 2.00 \%$ of AME times years of service.

## Maximum Benefit:

$\$ 90,000$ per year (indexed) at age 62 , or $100 \%$ of AME (such earnings to exclude pickedup employee contributions per Sec. 414(h)(2), deferred compensation per Sec 457, and amounts deferred under Sec 125).

## Normal Form of Benefit:

Life annuity to the member.

## COLA:

Plan 1: Paid annually, on October I for retired members (or their beneficiaries) who have been retired for at least one year. Increase is $2 \%$. An additional $1 \%$ will be payable if either there is a net experience gain for the year, or the City cost for the year is zero after payment of the variable COLA.

Plan 2: Paid annually, on October 1 for retired members (or their beneficiaries) who have been retired at least five years. No increase is given for eligible retirees under 55 on October 1 . A $1 \%$ increase is given for eligible retirees between 55 and 64. A $2 \%$ increase is given for eligible retirees 65 or older. A "variable" increase (of not more than one percent) will be granted when the plan is sufficiently funded.

## Early Retirement

Eligibility:
The attainment of 20 years of Credited Service.
Benefit:
Plan 1: $\quad 2.75 \%$ of AME times years of service.
Plan 2: $\quad 2.00 \%$ of AME times years of service.

## Normal Form of Benefit:

Life annuity to the member.

## COLA:

Plan 1: $\quad$ Paid annually, on October 1 for retired members (or their beneficiaries) who have been retired for at least one year. Increase is 2\%. An additional $1 \%$ will be payable if either there is a net experience gain for the year, or the City cost for the year is zero after payment of the variable COLA.

Plan 2: $\quad$ Paid annually, on October 1 for retired members (or their beneficiaries) who have been retired at least five years. No increase is given for eligible retirees under 55 on October 1. A $1 \%$ increase is given for eligible retirees between 55 and 64. A $2 \%$ increase is given for eligible retirees 65 or older. A "variable" increase (of not more than one percent) will be granted when the plan is sufficiently funded.

## Delayed Retirement

## Benefit:

Plan 1: $\quad 2.75 \%$ of AME times years of service.
Plan 2: $\quad 2.00 \%$ of AME times years of service.

## Normal Form of Benefit:

Life annuity to the member.

## COLA:

Plan 1: $\quad$ Paid annually, on October 1 for retired members (or their beneficiaries) who have been retired for at least one year. Increase is $2 \%$. An additional $1 \%$ will be payable if either there is a net experience gain for the year, or the City cost for the year is zero after payment of the variable COLA.

Plan 2: $\quad$ Paid annually, on October 1 for retired members (or their beneficiaries) who have been retired at least five years. No increase is given for eligible retirees under 55 on October 1. A $1 \%$ increase is given for eligible retirees between 55 and 64 . A $2 \%$ increase is given for eligible retirees 65 or older. A "variable" increase (of not more than one percent) will be granted when the plan is sufficiently funded.

## Drop Retirement

Eligibility:
The earlier of attainment of age 55 with 20 years of Continuous Service, or age 62 with 3 years of Credited Service as a "regular employee" with the City.

## Benefit:

Plan 1: $\quad 2.75 \%$ of AME times years of service.
Plan 2: $\quad 2.00 \%$ of AME times years of service.

## Normal Form of Benefit:

Life annuity to the member.

## COLA:

Same as Normal Retirement, except that the COLA is first credited and paid on the October 1 the member is eligible to receive a COLA after leaving employment (exits DROP)

## DROP Period:

The Member may remain in the DROP for any period up to five years.

## Contributions:

Member contributions cease when Member enters DROP.

## DROP Interest:

DROP account balances are credited at the beginning of each month with interest at $1 / 12^{\text {th }}$ the rate assumed in the actuarial valuation for that year.

## Disability Retirement - Service Incurred

## Eligibility:

Members are immediately eligible for a Disability Retirement Benefit where the Disability results from an act occurring in the performance of service with the City of Pompano Beach.

Disability Retirement eligibility is forfeited upon entry into the DROP.

## Disability Definition:

Total and permanent disablement and unable to earn at least $75 \%$ of regular earnings. A member who is eligible for full primary Social Security old age benefits is not eligible.

## Benefit:

$60 \%$ of Earnings.

## Normal Form of Benefit:

Life annuity to the member.

## COLA:

Plan 1: Paid annually, on October I for retired members (or their beneficiaries) who have been retired for at least one year. Increase is $2 \%$. An additional $1 \%$ will be payable if either there is a net experience gain for the year, or the City cost for the year is zero after payment of the variable COLA.

Plan 2: Paid annually, on October I for retired members (or their beneficiaries) who have been retired at least five years. No increase is given for eligible retirees under 55 on October 1. A 1\% increase is given for eligible retirees between 55 and 64. A $2 \%$ increase is given for eligible retirees 65 or older. A "variable" increase (of not more than one percent) will be granted when the plan is sufficiently funded.

## Disability Retirement - Non-Service Incurred

## Eligibility:

Total and permanent disablement, 7 years of service, and unable to be gainfully employed. A member who is eligible for full primary Social Security old age benefits is not eligible.

Disability Retirement eligibility is forfeited upon entry into the DROP.

## Benefit:

Accrued pension, subject to a minimum of $25 \%$ of Earnings.

## COLA:

Plan 1: $\quad$ Paid annually, on October 1 for retired members (or their beneficiaries) who have been retired for at least one year. Increase is $2 \%$. An additional $1 \%$ will be payable if either there is a net experience gain for the year, or the City cost for the year is zero after payment of the variable COLA.

Plan 2: $\quad$ Paid annually, on October 1 for retired members (or their beneficiaries) who have been retired at least five years. No increase is given for eligible retirees under 55 on October I. A $1 \%$ increase is given for eligible retirees between 55 and 64. A $2 \%$ increase is given for eligible retirees 65 or older. A "variable" increase (of not more than one percent) will be granted when the plan is sufficiently funded.

## Pre-Retirement Death Benefit - Basic

## Benefit:

I times annual earnings (payable in monthly installments over four years) plus a refund of contributions with interest. Alternatively, for members eligible for Early or Normal Retirement, or who have a vested benefit whether still actively employed by the City or not, the pension is payable to the beneficiary for 10 years as though retirement occurred on the date of death under Option 2, Ten Year Certain and Life (no reduction for early retirement if death occurs prior to normal retirement).

## COLA:

Plan 1: Paid annually, on October I for retired members (or their beneficiaries) who have been retired for at least one year. Increase is $2 \%$. An additional $1 \%$ will be payable if either there is a net experience gain for the year, or the City cost for the year is zero after payment of the variable COLA.

Plan 2: Paid annually, on October I for retired members (or their beneficiaries) who have been retired at least five years. No increase is given for eligible retirees under 55 on October 1. A $1 \%$ increase is given for eligible retirees between 55 and 64 . A $2 \%$ increase is given for eligible retirees 65 or older. A "variable" increase (of not more than one percent) will be granted when the plan is sufficiently funded.

## Withdrawal - Non Vested

## Eligibility:

First day of work, up to the earlier of 7 years of City service or 5 years of Senior Management Service for regular employees only.

## Benefit:

Accumulated contributions with $3 \%$ interest.
Form of Benefit:
Lump sum.

Withdrawal - Vested
Eligibility:
Regular employees - at least 7 years of service.
Senior Managers - earlier of 7 years of City service and 5 years of Senior Management Service.

Elected Officials and Appointees - at least 5 years of service.
Benefit:
A vested benefit deferred to regular normal retirement date. Alternatively, a regular employee or Senior Management participant may withdraw the accumulated contributions and forfeit the deferred vested benefit.

## Member Contributions

## Contributions:

## Elected Officials and Appointees

No member contributions. However, the City will make contributions at the same rate that applies to Regular Employees on behalf of these participants. These contributions are not eligible for refund upon termination.

## Regular Employees and Senior Managers

Plan 1: $\quad 10.0 \%$ of earnings.
Plan 2: $\quad 7.0 \%$ of earnings.
Interest Crediting Rate:
$3 \%$ per year.
Optional Forms of Payment
Option 1:
Joint and last survivor option.
Option 2:
Ten-Year Certain and Life option.

## Additional Provisions

## Reentry Provision:

Credit for prior service is granted in full upon repayment of all monies refunded to the member with interest at the assumed interest rate for actuarial purposes.

## Second Retirement Provision:

Members may retire and return to work as a regular employee. Prior pension payments are continued during the period of reemployment. A second benefit is earned based solely on the second period of employment, provided the employee worked at least three years during the second period of employment.

The following Plan Amendments have been adopted within the past few years. Amendment changes that have first been reflected in this valuation are shown in bold print:

1. Effective June 8, 2011
a) For members hired on or after June 8, 2011, average monthly earnings is the average of the highest 130 bi-weekly pay periods times 1.0048 .
b) For members hired on or after June 8, 201 t, the monthly retirement benefit is $2.0 \%$ times average monthly earnings.
c) For members hired on or after June 8, 2011, the contribution rate is $7.0 \%$ of earnings.
d) For members hired on or after June 8, 2011, a member is eligible for a COLA on their fifth anniversary of retirement. No increase is given for eligible retirees under 55 on October 1 . A $1 \%$ increase is given for eligible retirees between 55 and 64 . A $2 \%$ increase is given for eligible retirees 65 or older. A "variable" increase (of not more than one percent) will be granted when the plan is sufficiently funded.
2. Effective January 13, 2015
a. Members are $100 \%$ vested upon completion of 7 years of continuous service with the City.

[^0]:    * Does not include investment expenses

