

CITY OF JACKSONVILLE BEACH
POLICE OFFICERS' RETIREMENT SYSTEM
SIXTY-FIFTH ANNUAL ACTUARIAL VALUATION REPORT
OCTOBER 1, 2015

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April 28, 2016

Board of Trustees
City of Jacksonville Beach
Police Officers' Retirement System
Jacksonville Beach, Florida

The results of the October 1, 2015 Annual Actuarial Valuation of the City of Jacksonville Beach Police Officers' Retirement System are presented in this report. The purpose of the annual valuation is to measure the System's funding progress and to determine the City's contribution rate for the fiscal year beginning October 1, 2016 in accordance with established funding policies. The results of the valuation may not be applicable for other purposes. Disclosures under the Governmental Accounting Board (GASB) Statements No. 67 and No. 68 were issued in a separate report.

This report should not be relied on for any purposes other than those described above. It was prepared at the request of the Board and is intended for use by the Retirement System and those designated or approved by the Board. This report may be provided to parties other than the System only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The signing actuaries are independent of the plan sponsor.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (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. We did not perform an analysis of the potential range of such future measurements under the scope of this assignment.

Valuation results, comments, recommendation and our certification are contained in Section A.

The valuation was based upon information, compiled during the fiscal year ending September 30, 2015, furnished by the Pension Fund Administrator, concerning pension fund benefits, financial transactions, and individual members, terminated members, retired members and beneficiaries. Data was checked for reasonableness and missing information, but was not audited. GRS is not responsible for the accuracy or completeness of the data provided to us. This information is summarized in Section B.

A description of the actuarial valuation process, actuarial assumptions and definitions of technical terms are contained in Section C.

Additional disclosure information is contained in Section D.

A summary of valuation results in the State format is contained in Section E.

The computed contribution rate shown on page A-2 may be considered as a minimum contribution rate that complies with the Board's funding policy and/or state and city statutes. Users of this report should be aware that contributions made at that rate do not guarantee benefit security. Given the importance of benefit security to any retirement system, we suggest that contributions to the System in excess of those presented in this report be considered.

The contribution rate in this report is determined using the actuarial assumptions and methods disclosed in Section C of this report. This report includes certain risk metrics but does not include a more robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment. We encourage a review and assessment of investment and other significant risks that may have a material effect on the plan's financial condition.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. We certify that the information contained in this report is accurate and fairly presents the actuarial position of the City of Jacksonville Beach Police Officers' Retirement System as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. **It is our opinion that the mortality tables needed a load to be reasonable for purposes of determining the employer contribution rates. All other actuarial assumptions used for the valuation are reasonable.**

Brad Lee Armstrong and Jeffrey T. Tebeau are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully submitted,



Brad Lee Armstrong, ASA, EA, FCA, MAAA



Jeffrey T. Tebeau, ASA, MAAA

BLA/JTT:dj

SECTION A

**VALUATION RESULTS, COMMENTS, CONCLUSION,
RECOMMENDATIONS (IF ANY) AND STATEMENT BY
ENROLLED ACTUARY**

FUNDING OBJECTIVE

The funding objective of the Retirement System is to establish and receive contributions, expressed as percents of active member payroll, which will achieve progress towards 100% funding status and will remain approximately level from year-to-year and will not have to be increased for future generations of citizens in the absence of benefit improvements. This objective is stated in the Ordinance and meets the requirements of Part VII, Chapter 112, Florida Statutes.

CONTRIBUTION RATES

The Retirement System is supported by member contributions, casualty insurance premium tax monies received from the State pursuant to Chapter 185 Florida Statutes, City contributions, and investment income from Retirement System assets.

Contributions which satisfy the funding objective are determined by the actuarial valuation and are sufficient to:

- (1) cover the actuarial costs allocated to the current year (the normal cost) by the actuarial cost methods described in Section C; and
- (2) finance over a period of future years the actuarial costs not covered by present assets and anticipated future normal costs (unfunded actuarial accrued liability).

Contribution requirement for the plan and fiscal year beginning October 1, 2016 are shown on page A-2.

**CONTRIBUTIONS TO FINANCE BENEFITS OF THE RETIREMENT
SYSTEM FOR THE PLAN YEAR BEGINNING OCTOBER 1, 2016
TO BE CONTRIBUTED DURING THE FISCAL YEAR
BEGINNING OCTOBER 1, 2016**

Contributions for	Contributions Expressed as Percents of unDROPed Active Member Payroll
<i>Normal Cost</i>	
Service pensions	9.62 %
Disability pensions	0.96
Survivor pensions	
Pre-retirement	0.28
Termination benefits	
Deferred service pensions	2.55
Refunds of member contributions	<u>0.71</u>
Total Normal Cost	14.12
<i>Unfunded Actuarial Accrued Liability ⁽¹⁾</i>	
Retired members and beneficiaries	0.00
Active and vested terminated members	<u>7.60</u>
Total unfunded actuarial accrued liability	7.60
<i>Administrative Expenses</i>	1.79
<i>Total Calculated Contribution Requirement</i>	23.51
<i>Adjustments to Calculated Contribution Requirement</i>	
Temporary full funding credit	0.00
FS 112.64(5) compliance	<u>0.52</u>
Total adjustments	0.52
<i>Total Adjusted Contribution Requirement</i>	24.03 %
Member portion	7.95 %
Estimated Chapter 185 portion (FY 97/98 frozen dollars) and Additional premium tax revenue	5.16 %
City portion	10.92 %

(1) *Unfunded actuarial accrued liability was financed as level percents of member payroll. Please refer to page A-11 for a schedule of financing periods.*

FS 112.64 requires that City contributions be deposited not less frequently than quarterly. FS 185.11 requires that Chapter 185 monies be deposited within 5 days of receipt from the state. Member contributions, which are in addition to the City/Chapter contributions, must be deposited immediately after each pay period.

Procedures for determining dollar contributions are shown on page A-3.

Comparative contribution amounts for prior fiscal years are shown on page A-13.

**CHAPTER 99-1, LAWS OF FLORIDA
MINIMUM COMPLIANCE AND EXTRA BENEFITS**

	<u>Prior Year</u>	<u>Cumulative</u>
A. Additional premium tax revenues as of 9/30/2014	\$7,011	
B. Chapter 185 receipts during fiscal year ending 9/30/2015	\$217,756	\$2,804,676
C. Chapter 185 "frozen" receipts during fiscal year ending 9/30/2015	79,233	1,342,365 *
D. Qualifying benefit improvements since Chapter 99-1 effective date	118,192	1,149,185
E. Additional premium tax revenues as of 9/30/2015 [A + B - C -D] not less than 0	27,342	27,342

** This reflects \$74,637 for the first year of implementation per correspondence dated September 7, 1999 from the Division of Retirement.*

Potential Future Benefits

Minimum Compliance

A. None

Extra Benefits

A. None proposed

DETERMINING DOLLAR CONTRIBUTIONS FOR THE FISCAL YEAR BEGINNING OCTOBER 1, 2016

For any period of time, the percent-of-payroll contribution rate needs to be converted to dollar amounts. We recommend the following procedure.

Contribute the City/Chapter amount indicated in the following schedule. Included in these amounts is the projected increase in salary level between the valuation date and the fiscal year in which the contribution is made. The projection factor of 1.052957 $[(1.035)^{1.5}]$ is consistent with that used to calculate the actuarial liability. The member contribution amounts should not be used to reconcile actual member contributions.

Total Contribution Requirement	\$1,013,660
Less Member Contributions	335,356
Total Employer Contribution Requirement	678,304
Less Estimated Chapter 185 Contrib. "frozen" and Funding from Additional Premium Tax Revenue	217,756
Base City Contribution	\$460,548 *

* *Chapter 185 Florida Statutes.* The base City contribution amount may need to be increased if the amount received under the provisions of Chapter 185, Florida Statutes, is not sufficient to meet the total employer contribution requirement. **CAUTION:** If the amount received under the provisions of Chapter 185, Florida Statutes, exceeds \$197,425, the City may NOT use any of the excess to reduce the City contribution shown.

The above City/Chapter contribution amounts are estimated to be contributed, on average, halfway through the fiscal year. If contributions are made on a later schedule, interest should be added at the rate of .64% (.0064) for each month of delay.

FUNDING PROGRESS ACHIEVEMENT INDICATORS

There is no single all-encompassing measure of a retirement system's funding progress and current funded status.

A traditional measure has been the relationship of valuation assets to unfunded actuarial accrued liability - a measure that is influenced by the choice of actuarial cost method. This relationship is shown on page A-12.

We believe a better understanding of funding progress and status can be achieved using the following indicators.

Indicator (1) *The actuarial present value of gains or losses realized in the operation of the retirement system.* Gains and losses are expected to cancel each other over an economic cycle but sizable year-to-year fluctuations are common. An experience gain can result from assets increasing in value by more than anticipated, or by the system's obligation increasing by less than anticipated, or by other favorable combinations or deviation from expected asset and liability changes. Further details on the derivation of the gain (loss) are shown on page A-10.

Indicator (2) *The ratio of valuation assets to the actuarial present value of credited projected benefits* allocated in the proportion credited service is to projected total service. The ratio is expected to increase over time, but the basic trend may be interrupted by benefit improvements. This ratio is the most appropriate of the three described here for assessing the need for future contributions needed to fund the normal cost.

Indicator (3) *The ratio of the unfunded actuarial present value of credited projected benefits to member payroll.* The unfunded actuarial present value of credited projected benefits is controlled by the funding program. The ratio to payroll is a relative index of condition where inflation is present in both components. The ratio is expected to decrease over time, but the basic trend may be interrupted by benefit improvements.

FUNDING PROGRESS INDICATORS* - HISTORICAL DEVELOPMENT
(\$ AMOUNTS IN THOUSANDS)

Valuation Date	Indicator (1)		Indicator (2)			Indicator (3)		
	Gain/(Loss)		Funding	APVCPB [^]	Funded	Unfunded APVCPB [^]	Member Payroll	Ratio to Payroll
	Amount	% of AAL	Value of Assets		Ratio			
10/1/1995 (a) #	\$ 1,315	4.5 %	\$ 30,791	\$ 28,889	106.6 %	\$ (1,902)	\$ 10,601	(17.90) %
10/1/2000 (aa)	545	4.9	13,280	11,234	118.2	(2,047)	2,419	(84.60)
10/1/2001	(268)	(2.2)	13,634	11,603	117.5	(2,031)	2,280	(89.07)
10/1/2002 (a)	(1,137)	(9.0)	13,350	12,402	107.6	(948)	2,535	(37.40)
10/1/2003	(586)	(4.4)	13,162	12,866	102.3	(295)	3,028	(9.76)
10/1/2004 (a)	(492)	(3.5)	12,833	13,244	96.9	411	2,820	14.58
10/1/2005	(965)	(6.7)	13,021	14,466	90.0	1,445	3,231	44.72
10/1/2006	306	1.9	13,707	14,988	91.5	1,281	3,181	40.28
10/1/2007	220	1.3	14,694	15,751	93.3	1,057	3,572	29.59
10/1/2008 (a)	(998)	(5.1)	15,104	17,470	86.5	2,366	3,931	60.19
10/1/2009	(220)	(1.1)	15,342	18,047	85.0	2,705	3,873	69.84
10/1/2010	(103)	(0.5)	15,646	18,602	84.1	2,956	3,896	75.87
10/1/2011	(1,043)	(4.8)	15,458	19,479	79.4	4,021	3,786	106.21
10/1/2012	517	2.4	16,365	19,925	82.1	3,560	3,743	95.10
10/1/2013	597	2.7	17,469	20,657	84.6	3,188	3,559	89.56
10/1/2014 (a)	816	3.6	18,367	20,779	88.4	2,412	3,946	61.13
10/1/2015	557	2.7	19,489	21,304	91.5	1,815	4,006	45.31
10/1/2015 (a)	557	2.7	19,489	22,018	88.5	2,529	4,006	63.13

(a) After changes in benefit provisions and/or actuarial assumptions and actuarial cost methods.

(aa) After minimum benefit changes.

Prior to 1999 valuation, results include General, Police and Fire.

^ Actuarial Accrued Liability starting in 2014.

* None of these funding progress indicators are appropriate for assessing the sufficiency of plan assets to cover the estimated cost of setting the Plan's benefit obligations.

COMMENTS AND CONCLUSION

COMMENT A: For the fiscal year ended September 30, 2015, the Police System had a \$556,507 experience gain. The gain was primarily due to less than expected annual increases in pay (3.0% reported vs. 6.1% assumed) and higher than expected recognized investment return on the funding value of assets (9.0% recognized vs. 8.0% assumed) due to favorable returns in three out of the last four years. In order to generate the appropriate dollar contribution to amortize the unfunded actuarial accrued liability, the UAAL rate must be higher since it is applied to a smaller payroll than it would have been in equivalent circumstances with a larger payroll. The 10-year average payroll growth rate was 2.0% and compliance under Florida Statute 112.64(5) caused an increase in the City's contribution rate of 0.14% of payroll compared to last year. Additional experience information is reported on pages B-9, B-15, C-4, C-5 and C-6. The funded ratio increased from 88.4% to 88.5% from 2014 to 2015 on a funding value of assets basis and decreased from 93.0% to 85.2% on a market value of assets basis.

COMMENT B: It is our opinion that the mortality tables used for this valuation are minimally reasonable for determining future life expectancies. Therefore, we loaded the liabilities by 3.0% to account for this. The merit and seniority salary increase rates were reduced and the wage inflation assumption was decreased from 4.5% to 3.5% as well. These changes increased the contribution rates and lowered the funded ratio. The assumed rate of inflation used for this valuation was changed from 3.5% to 3.0% in order to be considered reasonable. This change had no effect as the price inflation is not directly used.

House Bill 1309 will mandate the use of the Florida Retirement System (FRS) mortality tables for the valuation dates beginning with the September 30, 2016 actuarial valuation. The FRS uses versions of the RP-2000 tables and projection scale BB in a reasonable manner. These mortality tables produce life expectancies that are longer for males and females. This change will increase the computed contribution rates and decrease the funded ratio in next year's report.

COMMENTS AND CONCLUSION (CONCLUDED)

LOOKING FORWARD: Due to the Board's use of a four-year smoothed market asset valuation method, greater than expected market returns during 2013 and 2014 and lower than expected market returns during 2015 have only been partially recognized in developing the funding value of assets as of September 30, 2015. The funding value of assets currently exceeds the market value of assets by \$736,970. If gains from investment returns above the 8% assumed or gains from other sources do not emerge, this will create an upward pressure on contribution requirements and a coinciding downward pressure on the funded ratios in subsequent valuation years. An additional risk factor to the level of the contribution rate is the 10-year average payroll growth, which was 2.00% for the 10 years ending September 30, 2015. If the average payroll growth is lower in subsequent reports, this will increase the City's contribution requirement pursuant to compliance with Florida Statute 112.64(5).

RISKS TO FUTURE EMPLOYER CONTRIBUTION REQUIREMENTS: There are ongoing risks to future employer contribution requirements to which the Retirement System is exposed, such as:

- Actual and Assumed Investment Rate of Return
- Actual and Assumed Mortality Rates
- Amortization Policy
- F.S. 112.65(5) Compliance Regarding Payroll Growth

We are recommending the Retirement System perform an experience study, as discussed in our April 8, 2015 correspondence.

CONCLUSION: It is the actuary's opinion that the required contribution rates determined by the most recent actuarial valuation are sufficient to meet the Retirement System's funding objective, presuming continued timely receipt of required contributions.

OTHER OBSERVATIONS

General Implications of Contribution Allocation Procedure or Funding Policy on Future Expected Contributions and Funded Status

Given the System's contribution allocation procedure, if all actuarial assumptions are met (including the assumption of the Retirement and Benefit System earning 8.00% on the Market Value of Assets), it is expected that:

1. The employer normal cost is sufficient to cover the cost of benefits accruing each year;
2. The Unfunded Actuarial Accrued Liabilities (UAAL) will continue to be fully amortized; and
3. The funded status of the Retirement and Benefit System will continue to increase gradually towards a 100% funded ratio.

Limitations of Funded Status Measurements

Unless otherwise indicated, a funded status measurement presented in this report is based upon the Actuarial Accrued Liability (AAL) and the Funding Value of Assets (FVA). Unless otherwise indicated, with regard to any funded status measurements presented in this report:

1. The measurement is inappropriate for assessing the sufficiency of Retirement System assets to cover the estimated cost of settling the Retirement and Benefit System's benefit obligations, for example: transferring the liability to an unrelated third party in a market value type transaction.
2. The measurement is dependent upon the Actuarial Cost Method which, in combination with the Retirement System's amortization policy, affects the timing and amounts of future contributions. The amounts of future contributions will most certainly differ from those assumed in this report due to future actual experience differing from assumed experience based upon the actuarial assumptions. A funded status measurement in this report of 100% is not synonymous with no required future contributions. Even though the funded status is over 100%, the Retirement and Benefit System would still require future normal cost contributions (i.e., contributions to cover the cost of active membership accruing an additional year of service credit).
3. The measurement would produce a different result if the Market Value of Assets (MVA) were used instead of the FVA, unless the MVA is used in the measurement.

Limitations of Project Scope

Actuarial standards do not require the actuary to evaluate the ability of the plan sponsor or other contributing entities to make required contributions to the plan when due. Such an evaluation was not within the scope of this project and is not within the actuary's domain of expertise. Consequently, the actuary performed no such evaluation.

STATEMENT BY ENROLLED ACTUARY

STATEMENT BY ENROLLED ACTUARY: “This actuarial valuation was prepared and completed 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 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.”

4/28/2016

Date



Brad Lee Armstrong, ASA, EA, FCA, MAAA [14-5614]

EXPERIENCE GAIN (LOSS) YEAR ENDED OCTOBER 1, 2015

DERIVATION

(1) UAAL at start of year	\$2,412,222
(2) Normal cost for year (ER normal cost & expenses from the prior corresponding valuation x current valuation pay)	318,089
(3) Actual City/Chapter contribution made toward ER normal cost, expenses and UAAL	542,504
(4) Interest accrual .08 x [(1) + 1/2 [(2)-(3)]]	184,001
(5) Expected UAAL before changes	2,371,808
(6) Effect of timing/accounting	0
(7) Effect of assumption/cost method changes	714,017
(8) Effect of benefit changes	0
(9) Expected UAAL after changes	3,085,825
(10) Actual UAAL at end of year	2,529,318
(11) Gain (loss) (9) - (10)	\$ 556,507
(12) % of AAL at start of year	2.7%

UAAL represents unfunded actuarial accrued liability.

Valuation Date September 30	Actuarial Gain (Loss) as a % of Beginning Accrued Liabilities
2006	1.9 %
2007	1.3
2008	(5.7)
2009	(1.1)
2010	1.1
2011	(5.0)
2012	2.4
2013	2.7
2014	3.6
2015	2.7

SOURCES AND FINANCING OF UNFUNDED ACTUARIAL ACCRUED LIABILITY

Unfunded Act. Accrued Liability			Remaining Financing			Contribution		FS112.64(5) Compliance
Source of Unfunded Act. Accrued Liab.	Initial		Current Amount	Period 9/30/2015	Amort. Factor	Dollar	% of Payroll	
	Amount	Fin. Per.						
Initial Unf'd. actuarial accrued liability								
			\$ 5,392	5 yrs.	4.503818	\$ 1,197	0.03 %	0.00%
Changes from experience deviations								
Pre-9/30/2002	\$(1,970,799)	15 yrs.	\$ (424,750)	5 yrs.	4.503818	\$(94,309)	(2.36) %	(0.07)%
9/30/2002	1,136,957	25	1,305,503	12	9.397040	138,927	3.47 %	0.28%
9/30/2003	586,136	25	685,775	13	9.984518	68,684	1.71 %	0.16%
9/30/2004	492,455	25	583,748	14	10.547518	55,345	1.38 %	0.13%
9/30/2005	964,532	25	1,152,869	15	11.087059	103,983	2.60 %	0.26%
9/30/2006	(306,132)	25	(367,383)	16	11.604120	(31,660)	(0.79) %	(0.08)%
9/30/2007	(220,348)	25	(264,524)	17	12.099637	(21,862)	(0.55) %	(0.06)%
9/30/2008	997,763	25	1,194,271	18	12.574507	94,976	2.37 %	0.28%
9/30/2009	219,770	25	261,524	19	13.029592	20,072	0.50 %	0.06%
9/30/2010	102,832	25	118,685	20	13.465714	8,814	0.22 %	0.03%
9/30/2011	1,043,104	25	1,190,285	21	13.883665	85,733	2.14 %	0.29%
9/30/2012	(516,717)	25	(574,244)	22	14.284201	(40,201)	(1.00)%	(0.14)%
9/30/2013	(597,024)	25	(656,531)	23	14.668049	(44,759)	(1.12)%	(0.16)%
9/30/2014	816,103	25	(847,693)	24	15.035902	(56,378)	(1.41)%	(0.21)%
9/30/2015	(556,507)	25	(556,507)	25	15.388429	(36,164)	(0.90)%	(0.14)%
Changes from actuarial assumption and actuarial cost method revisions.								
9/30/1995	\$ 291,716	25 yrs.	\$ 199,931	5 yrs.	4.503818	\$ 44,391	1.11 %	0.04%
9/30/2002	(143,237)	25	(164,473)	12	9.397040	(17,503)	(0.44) %	(0.03)%
9/30/2015	714,017	25	714,017	25	15.388429	46,400	1.16%	0.18%
Changes from amendments to benefit provisions.								
9/30/1997	197,204	25	183,344	7	6.053567	30,287	0.76 %	0.03%
9/30/2000	285,181	25	310,682	10	8.144346	38,147	0.95 %	0.07%
9/30/2004	116,892	25	138,563	14	10.547518	13,137	0.33 %	0.03%
9/30/2008	499,931	25	598,392	18	12.574507	47,588	1.19 %	0.14%
9/30/2014	(2,173,428)	25	(2,257,558)	24	15.035902	(150,145)	(3.75)%	(0.57)%
Totals			<u>\$2,529,318</u>			<u>\$304,700</u>	<u>7.60 %</u>	<u>0.52%</u>

UNFUNDED ACTUARIAL ACCRUED LIABILITY

	October 1, 2015	October 1, 2014
A. Actuarial present value of future benefits	\$26,737,853	\$25,659,187
B. Actuarial present value of future normal costs	<u>4,719,800</u>	<u>4,880,427</u>
C. Actuarial accrued liability	22,018,054	20,778,760
D. Funding value of assets	<u>19,488,736</u>	<u>18,366,538</u>
E. Unfunded actuarial accrued liability	<u><u>\$ 2,529,318</u></u>	<u><u>\$ 2,412,222</u></u>

Unfunded actuarial accrued liability is not a good measure of the System's funded status because the amount is dependent upon the actuarial cost method (please refer to page C-1). The funding progress indicators (2) and (3) on pages A-4 and A-5 are less dependent of the actuarial cost method and are a better guide to funded status and funding progress. The funded status and the funding progress indicators would be different if based on the market value of assets instead of the funding value of assets.

RECOMMENDED AND ACTUAL CONTRIBUTIONS COMPARATIVE STATEMENT

Fiscal Year	Valuation Date	City/Chapter Dollar Contributions#		Recommended City/Chapter % of Payroll Contributions
		Recommended	Actual	
92/93	10/1/1991 (a)	\$ 726,300	\$726,300	12.38 %
93/94	10/1/1992	793,594	793,594	11.00
94/95	10/1/1993	681,170	716,980	9.27
95/96	10/1/1994	790,417	818,057	10.13
96/97	10/1/1995 (a)	612,267	618,521	7.58
97/98	10/1/1996	563,577	563,577	7.48
98/99	10/1/1996 (a)	242,436	250,954	10.08
99/00	10/1/1998	190,095	228,463	8.12
00/01	10/1/1999	133,981	193,862	5.49
01/02	10/1/2000 (aa)	186,100	186,100	7.15
02/03	10/1/2001	158,486	184,912	6.46
03/04	10/1/2002 (a)	223,716	273,477	8.26
04/05	10/1/2003	335,787	403,589	10.38
05/06	10/1/2004 (a)	376,586	425,205	12.50
06/07	10/1/2005	443,557	532,674	12.85
07/08	10/1/2006	470,310	528,361	13.84
08/09	10/1/2007	503,281	550,995	13.19
09/10	10/1/2008 (a)	713,865	690,515	17.00
10/11	10/1/2009	777,408	777,408	18.79
11/12	10/1/2010	818,251	818,251	19.66
12/13	10/1/2011	930,958	930,958	23.02
13/14	10/1/2012 (a)	490,666	530,453	12.27
14/15	10/1/2013 (a)	511,049	562,835	13.44
15/16	10/1/2014 (a)	630,183		14.95
16/17	10/1/2015	630,812		14.74
16/17	10/1/2015 (a)	678,304		16.08

(a) After changes in benefit provisions and/or actuarial assumptions and/or actuarial cost methods.

(aa) After minimum benefit changes.

Prior to the fiscal year ending 9/30/99, results include General, Police and Fire.

ACTUARIAL BALANCE SHEET - OCTOBER 1, 2015

PRESENT RESOURCES AND EXPECTED FUTURE RESOURCES

A. Funding value of System assets:	
1. Net assets from System financial statements (market value)	\$18,751,766
2. Funding value adjustment	<u>736,970</u>
3. Funding value of assets	19,488,736
B. Actuarial present value of expected future employer contributions:	
1. For normal costs	2,014,817
2. For unfunded actuarial accrued liability	<u>2,529,318</u>
3. Totals	4,544,135
C. Actuarial present value of expected future member contributions	<u>2,704,982</u>
D. Total present and expected future resources	<u><u>\$26,737,853</u></u>

ACTUARIAL PRESENT VALUE OF EXPECTED FUTURE BENEFIT PAYMENTS AND RESERVES

A. To retired members and beneficiaries	\$11,739,460
B. To vested terminated members	235,630
C. To present active members:	
1. Allocated to service rendered prior to valuation date	10,015,622
2. Allocated to service likely to be rendered after valuation date	<u>4,719,800</u>
3. Totals	14,735,421
D. Total actuarial present value of expected future benefit payments	26,710,511
E. Reserve for DROP balances	0
F. Extra benefit reserve	27,342
G. Total actuarial present value of expected future benefit payments and reserves	<u><u>\$26,737,853</u></u>

5-YEAR PROJECTIONS OF FUTURE FUNDED RATIOS AND FUTURE EMPLOYER CONTRIBUTIONS (REFLECTS CHANGE IN MORTALITY UNDER HB 1309)

Year Ended 9/30	Active Count	Payroll	Benefit Payments	Actuarial Accrued Liability	Actuarial Value of Assets	Funded Ratio	Total Employer Contribution		Less Estimated Chapter 185 and Additional Premium Tax Revenue		Estimated City's Contributions
							Fiscal Year	% of Payroll	Dollar Amount		
2015	63	\$ 4,006,158	\$ 1,256,295	\$ 22,018,054	\$ 19,488,736	88.5%	2017	16.08%	\$ 678,304	\$ 217,756	\$ 460,548
2016	63	4,168,323	1,354,638	23,227,894	20,524,894	88.4%	2018	17.23%	756,374	217,756	538,618
2017	63	4,353,951	1,389,472	24,283,146	21,568,352	88.8%	2019	17.95%	822,884	217,756	605,128
2018	63	4,545,816	1,405,056	25,431,744	22,642,863	89.0%	2020	18.89%	904,196	217,756	686,440
2019	63	4,707,082	1,459,177	26,637,265	24,219,178	90.9%	2021	19.05%	944,171	217,756	726,415
2020	63	4,882,148	1,541,153	27,872,179	25,906,112	92.9%	2022	19.12%	982,737	217,756	764,981

Chapter 185 monies are assumed to stay level in future years.

Uses 3.5% wage growth assumption.

We have reflected compliance with F.S. 112.64(5) to remain constant with year ended 9/30/15.

We have not determined any additional possible impact due to F.S. 112.64(5).

Actuarial assumptions were those used for the 9/30/15 valuation.

Reflects change in mortality under HB 1309 beginning with the 9/30/2016 valuation.

Future experience was assumed to be consistent with the actuarial assumptions. If experience differs from the actuarial assumptions, future results could be significantly different from the projected results above.

Existing schedule of unrecognized investment gains and losses are reflected in this projection.

SECTION B

SUMMARY OF BENEFIT PROVISIONS AND VALUATION DATA SUBMITTED BY THE RETIREMENT SYSTEM

SUMMARY OF BENEFIT PROVISIONS (AS OF OCTOBER 1, 2015)

NORMAL RETIREMENT (NO REDUCTION FACTOR FOR AGE):

Eligibility

Members Eligible for Normal Retirement or 10 years of service at June 23, 2014: 30 years of service regardless of age, or age 52 with 25 or more years of service, or age 55 with 5 or more years of service.

Members with less than 10 years of service at June 23, 2014: 30 years of service regardless of age, or age 52 with 25 or more years of service, or age 55 with 10 or more years of service.

Mandatory Retirement Age - None.

Pension Amount

Members Eligible for Normal Retirement at June 23, 2014: Final average compensation times the sum of a) 3.0% for each of the first 30 years of service, plus, b) 2.0% for each year of service in excess of 30 years. Maximum pension is 100% of final average compensation (FS 112.65).

Members Not Eligible for Normal Retirement at June 23, 2014: Total credited service times 3.0% of final average compensation. Maximum pension is 90% of final average compensation or \$90,000, whichever is less. Accrued benefits at June 23, 2014 in excess of the maximum amount are retained.

The normal form of benefit is a benefit payable for the life of the retired member with the first 10 years guaranteed. Optional benefit forms are available on an actuarial equivalent basis.

Final Average Compensation - Highest 5 years out of last 10. Compensation includes base pay plus longevity, incentive pay, and overtime. Overtime is limited to 300 hours per calendar year after June 23, 2014. Excludes all other compensation.

SUMMARY OF BENEFIT PROVISIONS (CONTINUED)

EARLY RETIREMENT:

Eligibility - 20 years of service or age 50 with 10 years of service at June 23, 2014. Members that do not meet these conditions are not eligible for Early Retirement.

Pension Amount - Computed as regular retirement, but reduced to take into account earlier commencement of retirement income payments, as follows:

3.0% per year reduction for all years prior to Normal Retirement.

DEFERRED RETIREMENT (VESTED BENEFIT):

Eligibility - 10 or more years of service for members with less than 5 years of service and new hires as of June 23, 2014. Benefit begins at the earlier of: age 55 with 10 years of service, age 52 with 25 years of service, and age 65 with 5 years of service. The commencement date also applies to members with less than 10 years of service at June 23, 2014.

Members with 10 or more years of service on June 23, 2014: 5 or more years of service. Benefit begins at regular retirement age of 55.

Pension Amount - Computed as a normal retirement but based upon service and final average compensation at time of termination.

DUTY DISABILITY RETIREMENT:

Eligibility - No age or service requirements.

Pension Amount - Computed as a normal retirement to regular retirement age. Minimum benefit is not less than 50% of final average compensation. At regular retirement age, the participant has the option to have the benefit re-computed as a normal retirement with additional service credit granted from date of retirement to the later of normal retirement age or five years after date of disability. Minimum benefit is not less than 42% of final average compensation.

SUMMARY OF BENEFIT PROVISIONS (CONTINUED)

NON-DUTY DISABILITY RETIREMENT:

Eligibility - 10 or more years of service.

Pension Amount - Computed as a normal retirement. Minimum benefit is not less than 25% of final average compensation.

DUTY DEATH BEFORE RETIREMENT:

Eligibility - No age or service requirements.

Pension Amount - To spouse: 100% of the normal retirement benefit. Minimum benefit is not less than 35% of final average compensation.

NON-DUTY DEATH BEFORE RETIREMENT:

Eligibility - 10 or more years of service.

Pension Amount - To spouse: 100% of the normal retirement benefit.

MEMBER CONTRIBUTIONS: 7.95% of pay.

PREMIUM TAX MONIES: A distribution of casualty insurance premium tax monies collected by the State pursuant to Chapter 185, Florida Statutes.

CITY CONTRIBUTIONS: Actuarially determined amounts which together with member contributions and premium tax monies are sufficient to at least cover the requirements of the funding objective.

FORFEITURE OF RETIREMENT BENEFITS: Retirement benefits granted by the Retirement System are subject to forfeiture if an employee is convicted of an offense specified in Sections 112.3173 and 185.185, Florida Statutes, pursuant to the procedures set forth in the cited statute.

SUMMARY OF BENEFIT PROVISIONS (CONTINUED)

PRIOR SERVICE PURCHASES: A former member with credited service who wishes to return to City employment may restore the forfeited credited service to receive credit for prior service within ninety (90) days after return to City employment.

DEFERRED RETIREMENT OPTION PROGRAM (DROP): Any eligible member of the Retirement System who meets the requirements of retirement may elect to participate, deferring receipt of retirement benefits while continuing employment with the City. The deferred monthly benefits shall accrue in the reserve for pension payments fund on behalf of the participant, plus 3.5% annual interest compounded monthly less a service fee, for the specified period of the DROP participation not to exceed 36 consecutive months. Upon termination from the DROP, the participant shall receive all accrued DROP benefits either by lump sum, direct rollover or partial lump sum. The DROP was closed to new members on June 23, 2014.

BACKWARDS DEFERRED RETIREMENT OPTION PROGRAM (BACKDROP):

Eligibility – Same as normal retirement. Member must not be participating in the DROP on June 23, 2014 and must continue employment beyond the normal retirement date. The member may elect a BackDROP period for the number of months worked beyond their normal retirement date, up to a maximum of 36 months.

Amount of Pension – Computed as if the member had chosen to terminate on a day chosen by the member but not before the member's normal retirement date, using credited service and final average salary at the BackDROP date. In addition to the pension, there will be a lump sum payment, equal to the pension benefits the member would have received had he/she retired on the BackDROP date with interest at the rate of 3.0% per year.

CLAIMS PROCEDURE: Claims for benefits should be filed with the office of the City Clerk. If a claim is denied, you will be notified and informed of the procedure to request a hearing before the Board of Trustees. An applicant for benefits must appeal said denial within 20 days of being informed of the denial by filing an appeal with the Board Secretary. If no appeal is filed within the time period then the denial shall be final.

SUMMARY OF BENEFIT PROVISIONS (CONCLUDED)

DISCLAIMER: The preceding summary briefly described the principle benefits of the Retirement System. Detailed benefit conditions and limitations are contained in the City of Jacksonville Beach Police Officers' Retirement System Ordinance as amended, which establishes the System. The Internal Revenue Code, Florida Statutes, and the Ordinance all govern the operation of the System, and should be consulted before you take any action concerning your membership or benefits. In case of any conflict between this Summary and the Ordinance or other applicable law, the Ordinance or other applicable law will prevail. Copies of the Ordinance are available at the office of the City Clerk.

ACCOUNTING INFORMATION SUBMITTED FOR VALUATION

Revenues and Expenditures

	Year Ended September 30, 2015	Year Ended September 30, 2014
Revenues:		
a. Member contributions	\$ 328,665	\$ 263,978
b. City contributions	345,079	326,017
c. Premium taxes from State	217,756	204,436
d. Total contributions to System	\$891,500	\$794,431
e. Investment income:		
1. Interest and dividends	549,949	428,318
2. Realized gain on investments	541,907	1,401,518
3. Unrealized gain on investments	(1,090,367)	46,884
4. Investment expense	(61,054)	(56,819)
f. Total investment income	(59,565)	1,819,901
g. Total revenues	\$831,935	\$2,614,332
Expenditures:		
a. Refunds of member contributions	62,865	150,660
b. Benefits paid	1,263,089	1,275,228
c. Administrative expenses	71,518	81,366
d. Total expenditures	1,397,472	1,507,254
Reserve Increase:		
Total revenues minus total expenditures	\$(565,537)	\$1,107,078

Summary of Assets (Market Value)

	September 30, 2015	September 30, 2014
Cash and equivalents	\$ 542,721	\$ 328,461
Receivables less payables	33,261	33,748
Certificates of deposit & savings	none	none
U.S. Government Securities	2,469,109	3,163,322
Bonds		
- government	none	none
- corporate	4,005,649	3,384,667
Stocks		
- common	none	none
- preferred	none	none
Other (Equity Mutual Funds)	11,701,026	12,407,105
Total assets	\$18,751,766	\$19,317,303

DERIVATION OF FUNDING VALUE OF RETIREMENT SYSTEM ASSETS

	Values as of September 30				
	2014	2015	2016	2017	2018
<u>Beginning of Year Values</u>					
(1) Market Value	\$18,210,225	\$19,317,303			
(2) Funding Value	17,469,215	18,366,538			
<u>End of Year</u>					
(3) Market Value	19,317,303	18,751,766			
(4) Net Addition to Assets	(712,823)	(505,972)			
Excluding Investment Income#					
(5) Total Net Investment Income#	1,819,901	(59,565)			
=(3)-(1)-(4)					
(6) Projected Net Rate of Return#	8.00%	8.00%			
(7) Projected Investment Income	\$ 1,369,024	\$ 1,449,084			
=(6) x [(2)+0.5 x (4)]					
(8) Investment Income in Excess of Projected	450,877	(1,508,649)			
Excess Investment Income Recognized					
(9a) From Current Year = .25 x (8)	112,719	(377,162)			
(9b) From One Year Prior	169,079	112,719	\$(377,162)		
(9c) From Two Years Prior	274,449	169,079	112,719	\$(377,162)	
(9d) From Three Years Prior	(315,125)	274,450	169,078	112,720	\$(377,163)
(9e) Total Cap. Val. Change Recogn.	241,122	179,086	(95,365)	(264,442)	(377,163)
= (9a)+(9b)+(9c)+(9d)					
(10) Increase(Decr.) in Funding Value	897,323	1,122,198			
= (4) + (7) + (9e)					
End of Year					
(11) Market Value	19,317,303	18,751,766			
(12) Funding Value = (2)+(10)	18,366,538	19,488,736			
(13) Market Value Rate of Return	10.2%	(0.3)%			
(14) Funding Value Rate of Return	9.4%	9.0%			
(15) Ratio of Market Value to Funding Value	105.2%	96.2%			

Net of expenses paid from investment income.

**ACCOUNTING INFORMATION SUBMITTED FOR VALUATION
RECONCILIATION TO MARKET VALUE OF ASSETS**

Reserve Accounts

	9/30/2015	9/30/2014
Member Contributions (Members' Savings Reserve Fund)	\$ 3,323,404	\$ 2,976,173
City/State Contributions (Pension Reserve Fund)	0	0
Retired Members and Beneficiaries (Retirement Reserve Fund)	15,428,362	16,341,130
Total Reserve Accounts	18,751,766	19,317,303
Funding Value Adjustment	736,970	(950,765)
Funding Value of Assets	\$19,488,736	\$18,366,538

Retirement System reserve accounts are maintained and reported on a market value basis by the outside auditor.

RETIRED MEMBER AND BENEFICIARY DATA HISTORICAL SCHEDULE

Year Ended	Added		Removed		Net Increase		End of Year		Expected Removals	
	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions	No.	Pensions
9/30/1985	6	\$ 38,897	3	\$ 9,338	3	\$ 29,559	54	\$ 206,265	1.7	\$ 4,085
9/30/1986	8	73,331	2	4,389	6	68,942	60	275,207	1.4	4,092
9/30/1987	3	17,843	2	3,074	1	14,769	61	289,976	1.6	4,955
9/30/1988	1	5,391	1	970	-	4,421	61	294,397	1.6	5,476
9/30/1989	2	5,579	1	2,946	1	2,633	62	297,030	1.8	6,098
9/30/1990	6	63,868	5	14,043	1	49,825	63	346,855	1.9	6,447
9/30/1991	3	67,943	3	11,449	-	56,494	63	403,349	1.9	7,388
9/30/1992	16	232,066	5	13,210	11	218,856	74	622,205	1.9	8,303
9/30/1993	6	87,030	7	27,306	(1)	59,724	73	681,929	2.2	11,617
9/30/1994	12	187,409	2	14,164	10	173,245	83	855,174	2.1	12,465
9/30/1995	8	184,693	6	24,617	2	160,076	85	1,015,250	2.3	14,657
9/30/1996	14	247,257	7	33,348	7	213,909	92	1,229,159	1.9	14,218
9/30/1997	5	65,068	4	22,208	1	42,860	93	1,272,018	2.0	16,685
9/30/1998 #							18	468,055	2.0	16,685
9/30/1999	3	63,905	1	25,870	2	38,035	20	506,090	0.2	4,687
9/30/2000	2	100,698		3,890	2	96,808	22	602,898	0.3	5,328
9/30/2001	2	83,928			2	83,928	24	686,826	0.3	6,281
9/30/2002	3	75,810 *			3	75,810	27	761,435	0.3	7,492
9/30/2003	2	22,825	1	12,935	1	9,890	28	771,325	0.4	8,401
9/30/2004	2	45,760			2	45,760	30	817,085	0.5	9,148
9/30/2005	2	78,914	1	3,600	1	75,314	31	892,399	0.5	10,221
9/30/2006	2	54,624			2	54,624	33	947,023	0.5	11,512
9/30/2007	0	0	1	3,600	(1)	(3,600)	32	943,423	0.6	13,132
9/30/2008	2	69,969	1	34,909	1	35,060	33	978,483	0.6	14,333
9/30/2009	2	63,898		2,303 @	2	61,595	35	1,040,078	0.7	16,425
9/30/2010	1	3,895			1	3,895	36	1,043,973	0.7	18,502
9/30/2011	6	171,322	2	32,490	4	138,832	40	1,182,805	0.7	19,567
9/30/2012	2	69,773	2	72,887	0	(3,114)	40	1,179,691	0.9	22,884
9/30/2013	2	97,458			2	97,458	42	1,277,149	0.9	24,431
9/30/2014	0	0	1	13,274	(1)	(13,274)	41	1,263,875	1.0	27,155
9/30/2015	3	50,301	2	57,882	1	(7,581)	42	1,256,294	1.1	29,416

Expected for
9/30/2016

1.2 31,283

Prior to 1998 valuation, results include General, Police and Fire.

* Includes changes in benefits due to the minimum benefit requirement.

@ This amount is being paid from the General Employees' Retirement System.

NORMAL (AGE AND SERVICE) RETIREMENTS

Valuation Year	No.	Average Attained Age	Retirement Age	Annual Pensions	Newly Retired During Year			
					Averages			No.
					Ret. Age	Service	Annual Pensions	
2006	26	58.8 yrs.	50.5 yrs.	\$ 30,305	1	54.0 yrs.	14.2 yrs.	\$ 28,534
2007	26	59.8	51.4	30,305	0	-	-	-
2008	25	62.7	52.8	30,121	0	-	-	-
2009	27	65.4	54.7	30,171	2	55.0	14.5	31,949
2010	28	66.0	54.7	29,233	1	55.0	10.9	3,894
2011	29	62.5	52.4	31,138	4	51.8	14.3	35,881
2012	29	65.4	54.6	30,068	1	55.4	10.2	19,368
2013	31	65.3	54.3	31,272	1	49.4	20.3	47,578
2014	30	65.9	54.4	31,872	0	0.0	0.0	0
2015	29	66.0	54.2	31,698	1	50.8	19.9	20,971

RETIRED MEMBERS AND BENEFICIARIES

Historical Comparison

Valuation Date	% Incr. in Annual Pensions#	No. of Active Per Retired	Pension Payroll as % of Active Payroll	Average Pension#
9/30/1985 *	10.5 %			\$ 3,274
10/1/1990	16.8			5,506
10/1/1995	18.7	4.0	13.2	11,944
10/1/2000	19.1	2.5	24.9	27,404
10/1/2005	9.2	1.8	27.6	28,787
10/1/2006	6.1	1.7	29.8	28,698
10/1/2007	(0.4)	1.9	26.4	29,482
10/1/2008	3.7	1.8	24.9	29,651
10/1/2009	6.3	1.7	26.9	29,717
10/1/2010	0.4	1.6	26.8	28,999
10/1/2011	13.3	1.4	31.2	29,570
10/1/2012	(0.3)	1.4	31.5	29,492
10/1/2013	8.3	1.3	35.9	30,408
10/1/2014	(1.0)	1.5	32.0	30,826
10/1/2015	(0.6)	1.5	31.4	29,912

* For the 5 years ending with the valuation date.

Prior to 1999 valuation, results include General, Police and Fire.

RETIRED MEMBERS AND BENEFICIARIES AS OF OCTOBER 1, 2015
BY TYPE OF PENSION BEING PAID*

New Plan Pensions

Type of Pension Being Paid	No.	Annual Pension	Average Pension	Actuarial Liability
<i>Age and Service Pensions</i>				
Regular	4	\$ 175,638	\$ 43,910	\$ 1,240,729
Option I	8	251,405	31,426	2,409,059
Option II	9	344,183	38,243	3,393,756
Option III	7	142,598	20,371	1,691,622
Surviving Beneficiaries	5	142,281	28,456	1,362,417
Total Age and Service Pensions	33	1,056,105	32,003	10,097,582
<i>Disability Pensions</i>				
Regular	2	42,752	21,376	282,494
Option I	3	74,888	24,963	548,860
Option II	1	35,060	35,060	407,975
Option III	1	36,760	36,760	320,754
Total Disability Pensions	7	189,460	27,066	1,560,083
Total New Plan Pensions	40	\$1,245,565	\$31,139	\$11,657,666

* *Regular - benefit terminating upon death of retired member.*
Option I - 10-year certain.
Option II - 100% joint and survivor benefit.
Option III - 50%/66.7%/75% joint and survivor benefit.
Surviving Beneficiaries - benefit terminating upon death of beneficiary.

**RETIRED MEMBERS AND BENEFICIARIES AS OF OCTOBER 1, 2015
BY TYPE OF PENSION BEING PAID***

Old Plan Pensions

Type of Pension Being Paid	No.	Annual Pension	Average Pension	Actuarial Liability
<i>Age and Service Pensions</i>				
Option II	1	\$ 5,415	\$ 5,415	\$ 58,983
Total Age and Service Pensions	1	5,415	5,415	58,983
<i>Disability Pensions</i>				
Surviving Beneficiaries	1	5,314	5,314	22,811
Total Disability Pensions	1	5,314	5,314	22,811
Total Old Plan Pensions	2	\$ 10,729	\$ 5,365	\$ 81,794
 <i>Total New & Old Plan Pensions Being Paid</i>				
	42	\$1,256,294	\$29,912	\$11,739,460

* Regular - benefit terminating upon death of retired member.
Option I - 10 year certain.
Option II - 100% joint and survivor benefit.
Option III - 50%/66.7%/75% joint and survivor benefit.
Surviving Beneficiaries - benefit terminating upon death of beneficiary.

**RETIRED MEMBER AND BENEFICIARY DATA AS OF OCTOBER 1, 2015
BY ATTAINED AGES**

Attained Ages	New Plan		Old Plan		Totals	
	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits
47	1	\$ 36,247			1	\$ 36,247
50	1	33,891			1	33,891
51	1	20,971			1	20,971
53	2	90,731			2	90,731
56	3	61,751			3	61,751
57	1	34,909			1	34,909
59	1	19,368			1	19,368
60	2	60,879			2	60,879
61	1	35,060			1	35,060
63	2	62,749			2	62,749
64	1	23,168			1	23,168
65	1	23,168			1	23,168
66	4	110,555			4	110,555
67			1	\$ 5,415	1	5,415
68	4	119,749			4	119,749
69	4	202,768			4	202,768
72	1	38,728			1	38,728
73	3	99,889			3	99,889
74	1	38,067			1	38,067
75	2	31,311			2	31,311
76	1	27,638			1	27,638
78	1	23,810			1	23,810
80	1	13,286			1	13,286
88	1	36,872			1	36,872
89			1	5,314	1	5,314
Totals	40	\$1,245,565	2	\$10,729	42	\$1,256,294

**VESTED TERMINATED MEMBERS AS OF OCTOBER 1, 2015
BY ATTAINED AGES**

Attained Ages	No.	Annual Benefits
30	1	\$ 14,377
43	1	19,318
45	1	25,339
Totals	3	\$59,034

**ACTIVE AND VESTED TERMINATED MEMBERS
(EXCLUDING DROP MEMBERS)**

Valuation Date	Active Members	Vested Terminated Members	Valuation Payroll	Average		
				Age	Service	Pay
10/1/2006	55	3	\$ 3,181,070	38.0	7.4	\$ 57,838
10/1/2007	61	2	3,571,835	38.4	7.5	58,555
10/1/2008	61	2	3,930,907	38.7	7.9	64,441
10/1/2009	59	2	3,873,001	38.9	8.2	65,644
10/1/2010	59	2	3,896,087	39.2	8.4	66,035
10/1/2011	57	1	3,785,736	38.7	8.4	66,416
10/1/2012	57	2	3,743,405	39.4	9.1	65,674
10/1/2013	56	3	3,559,498	39.8	8.8	63,562
10/1/2014	62	2	3,945,943	38.8	8.7	63,644
10/1/2015	63	3	4,006,158	39.1	8.9	63,590

NUMBER ADDED TO AND REMOVED FROM ACTIVE MEMBERSHIP

Year Ended September 30	Number Added During Year		Terminations During Year										Active Members End of Year
			Normal Retirement		Disability Retirement		Died-in-Service		Withdrawal				
	A	E	A	E	A	E	A	E	Vested	Other	Total	A	E
2006	6	7	1	0.8	1	0.1	0	0.0	1	4	5	3.2	55
2007	8	2	0	0.5	0	0.1	0	0.0	0	2	2	3.2	61
2008	6	6	0	1.3	1	0.1	0	0.0	0	5	5	3.5	61
2009	5	7	2	1.4	0	0.1	0	0.0	0	5	5	3.4	59
2010	4	4	0	1.2	0	0.1	0	0.0	1	3	4	3.2	59
2011	8	10	2	1.5	1	0.1	0	0.0	1	6	7	2.8	57
2012	5	5	1	0.5	0	0.1	0	0.0	1	3	4	3.0	57
2013	6	7	2	0.2	0	0.1	0	0.0	1	4	5	2.9	56
2014	10	4	0	0.2	0	0.1	0	0.0	0	4	4	2.9	62
2015	9	8	1	0.5	0	0.1	0	0.0	1	6	7	3.4	63
5-yr. Totals													
2011 - 2015	38	34	6	2.9	1	0.5	0	0.0	4	23	27	15.0	
Expected for 2016				0.9		0.1		0.0				3.4	

*A Represents actual number.
E Represents expected number.*

ACTIVE MEMBERS AS OF OCTOBER 1, 2015
BY NEAR AGE AND YEARS OF SERVICE
(EXCLUDING DROP MEMBERS)

Near Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
25-29	13							13	\$ 629,355
30-34	5	3						8	411,864
35-39	6	2						8	462,718
40-44	1	1	4	4				10	710,563
45-49	1	1	4	5	2	1		14	1,073,083
50-54	1	2	1	2		1		7	500,762
Totals	29	9	9	11	3	2		63	\$4,006,158

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 39.1 years

Service: 8.9 years

Annual Pay: \$63,590

SECTION C

ACTUARIAL COST METHOD, ACTUARIAL
ASSUMPTIONS, AND DEFINITIONS OF TECHNICAL
TERMS

ACTUARIAL COST METHOD

The actuarial cost method is a procedure for allocating the actuarial present value of benefits and expenses to time periods. The method used for your valuation is known as the individual entry-age actuarial cost method, and has the following characteristics:

- (i) The annual normal costs for each individual active member is sufficient to accumulate the value of the member's pension at time of retirement or DROP.
- (ii) Each annual normal cost is a constant percentage of the member's year by year projected pensionable compensation.

The entry-age actuarial cost method allocates the actuarial present value of each member's projected benefits on a level basis over the member's pensionable compensation between the entry age of the member and the estimated active status exit ages. This is based on our understanding of the approach preferred by the Florida Division of Retirement.

The portion of the actuarial present value allocated to the valuation year is called the normal cost. The portion of the actuarial present value not provided for by the actuarial present value of future normal costs is called the actuarial accrued liability. Deducting accrued assets from the actuarial accrued liability determines the unfunded actuarial accrued liability. The unfunded actuarial accrued liability was financed as a level percent of member payroll. Please refer to page A-9 for a schedule of financing periods.

The characteristics of this method of financing the unfunded actuarial accrued liability are shown on page C-2.

The sum of active & DROP member payroll was assumed to increase 3.5% a year for the purpose of determining the level percent contributions, except to the extent needed for FS 112.64(5) compliance. This assumption is consistent with the base rate of increase in salaries used to calculate actuarial present values. Expressing contributions, as on page A-2, as a percent of active member payroll excluding DROP members may cause fluctuations due to the level of participation in the DROP.

**LEVEL PERCENT OF ACTIVE MEMBER PAYROLL AMORTIZATION
OF UNFUNDED ACTUARIAL ACCRUED LIABILITY*
(AMORTIZATION SCHEDULE \$ AMOUNTS IN THOUSANDS)**

Year Ended September 30	Payroll		Unfunded		Contribution	
	Inflated Dollars	Constant Value	Inflated Dollars	Constant Value	Inflated Dollars	Constant Value
2015	\$ 4,006	\$4,006	\$2,529	\$2,529	\$ 292	\$ 292
2016	4,186	4,006	2,422	2,317	305	292
2017	4,375	4,006	2,291	2,098	319	292
2018	4,572	4,006	2,136	1,872	333	292
2019	4,777	4,006	1,953	1,637	348	292
2024	5,954	4,006	299	201	461	310
2029	7,419	4,006	(1,832)	(989)	54	29
2034	9,246	4,006	(2,100)	(910)	(389)	(169)
2038	11,026	4,006	(458)	(166)	(490)	(178)
2039	11,522	4,006	26	9	27	9
2040	12,040	4,006	0	0	0	0
* \$ 157,510	over 25 years		(\$367,383)	over 16 years		
(3,105,251)	over 24 years		1,152,869	over 15 years		
(656,531)	over 23 years		722,311	over 14 years		
(574,244)	over 22 years		685,775	over 13 years		
1,190,285	over 21 years		1,141,030	over 12 years		
118,685	over 20 years		310,682	over 10 years		
261,524	over 19 years		183,344	over 7 years		
1,792,663	over 18 years		(219,427)	over 5 years		
(264,524)	over 17 years					
			<u>\$2,529,318</u>	TOTAL		

Level percent-of-payroll financing of unfunded actuarial accrued liability treats each generation of taxpayers equally during the financing period. The alternative, level dollar financing, produces declining percent-of-payroll contributions and places a greater relative burden on current taxpayers.

The annual rate of increase in participant payroll used to compute the level percent-of-payroll contribution is the same rate of payroll growth used to compute actuarial liability and costs. It reflects across-the-board salary increases, not group size increases.

If future payroll growth is less than the assumed rate due to smaller than projected salary increases, the percent-of-payroll contribution rate for unfunded actuarial accrued liability will tend to decline.

If future payroll growth is less than the assumed rate due to decreases in the number of participants, the percent-of-payroll contribution rate for unfunded actuarial accrued liability will tend to increase but dollar contributions will be less than indicated in the preceding schedule.

ACTUARIAL ASSUMPTIONS USED FOR THE VALUATION

Funding objective contribution requirements and actuarial present values are calculated by applying estimates of future plan activities (actuarial assumptions) to the benefit provisions and people information of the system, using the actuarial cost method described on page C-1. All actuarial assumptions used in this report are estimates of future experience.

The principal areas of risk which require estimates of future plan activities are:

- (i) long-term rates of investment return to be generated by the assets of the system
- (ii) patterns of pay increases to active members
- (iii) rates of mortality among active members, retired members and beneficiaries
- (iv) rates of withdrawal of active members
- (v) rates of disability among active members
- (vi) the age patterns of actual retirements

In making a valuation, the monetary effect of each activity is calculated for as long as a present covered person survives - - a period of time which can be as long as a century.

Actual activities of the system will not coincide exactly with estimated activities, due to their nature. Each valuation provides a complete recalculation of estimated future activities and takes into account the effect of differences between estimated and actual activity to date. The result is a continual series of adjustments (usually small) to the computed contribution rate. From time to time one or more of the assumptions are modified to reflect experience trends (but not random or temporary year-to-year fluctuations).

From time to time one or more of the estimates are modified to reflect experience trends (but not random or temporary year to year fluctuations).

In accordance with Chapter 112, Florida Statutes, 112.661(9), the Board of Trustees adopts the assumed rate of return assumption used for actuarial valuation purposes. The actuarial assumptions are set by the Board. The rationale for the actuarial assumptions is described in the October 1, 1995 through September 30, 2000 experience study report. All actuarial assumptions are estimates of future experience.

The actuarial assumptions regarding the INFLATION rate, the SALARY INCREASE rates, and REAL INVESTMENT RETURN were effective October 1, 2015. These actuarial assumptions are used, in combination with the other actuarial assumptions, to (i) determine the present value of amounts expected to be paid in the future and (ii) establish rates of contribution which are expected to remain relatively level as a percent of covered payroll.

The annual interest rate used in making this valuation was 8.0%. It is composed of inflation and real investment return.

PRICE INFLATION. 3.0% per annum, compounded annually. This is the rate at which growth in the supply of money and credit is estimated to exceed growth in the supply of goods and services. It may be thought of as the rate of depreciation of the purchasing power of the dollar. There are a number of indices for measuring the inflation rate. The recent inflation rate, as measured by the Consumer Price Index, has been:

	Year Ended September 30					Average	
	2015	2014	2013	2012	2011	3-Year	5-Year
Actual	(0.0)%	1.7%	1.2%	2.0%	3.9%	0.9%	1.7%
Assumed	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%

REAL INVESTMENT RETURN. 5.0% per annum, compounded annually. This is the rate of return estimated to be produced by investing a pool of assets in an inflation-free environment. Recent real investment return for the Retirement System has been:

	Year Ended September 30					Average	
	2015	2014	2013	2012	2011	3-Year	5-Year
Net Rate	9.0%	9.4%	8.6%	6.8%	0.5%	9.0%	6.8%
Less Inflation Rate	(0.0)%	<u>1.7%</u>	<u>1.2%</u>	<u>2.0%</u>	<u>3.9%</u>	<u>0.9%</u>	<u>1.7%</u>
Net Real Rate	9.0%	7.8%	7.4%	4.8%	(3.4)%	8.1%	5.1%
Target Real Rate	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%

The total investment return rate was computed using the approximate formula $i = I$ divided by $1/2 (A + B - I)$, where I is actual realized investment income plus market value adjustments, A is the beginning of year funding asset value and B is the end of year funding value of assets.

The preceding investment return rates reflect the particular characteristics of this Retirement System and should not be used to measure an investment advisor's performance or for comparison with other retirement systems. Such use will usually mislead.

SALARY INCREASES. Employee salaries are estimated to increase between the date of hire and date of retirement. Salary increases occur in recognition of (i) individual merit and seniority, (ii) inflation-related depreciation of the purchasing power of salaries, and (iii) competition from other employers for personnel.

A schedule of estimated rates of increases in individual salaries for sample ages follows:

Attributable to:	Annual Rates for Salary Increase for Sample Ages				
	20	30	40	50	60
Merit & Seniority	3.8 %	2.7 %	2.1 %	1.1 %	0.2 %
General Increase in Wage Level Due to:					
Price Inflation	3.0	3.0	3.0	3.0	3.0
Other Factors	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>
Total	7.3 %	6.2 %	5.6 %	4.6 %	3.7 %

The valuation is based on a constant group size and total payroll increasing at the rate of the general increase in wage levels due to inflation and other causes, which in this case is 3.5% a year.

A schedule of recent salary change experience, as measured by average reported pay, follows:

	Year Ended September 30					Average		
	2015	2014	2013	2012	2011	3-Year	5-Year	10-Year
% Change:								
Actual (1)	3.0%	3.9%	2.5%	0.2%	5.5%	3.1%	3.0%	4.0%
Assumed	6.1%	6.1%	6.2%	6.2%	6.3%	6.1%	6.2%	6.3%
% Change in Total Payroll (2)	1.5%	10.9%	(4.9)%	(1.1)%	(2.8)%	2.3%	0.6%	2.0%

(1) Excluding terminations and new members.

(2) Including pays of members electing DROP participation but still working.

In order to achieve the funding objective of a contribution rate which remains level as a percent-of-payroll, the total rate of investment return must exceed the rate of average increase in salaries by an amount equal to the estimated real investment return rate. The following schedule illustrates the recent history of the relationship between total investment return and average pay changes.

	Year Ended September 30					Average	
	2015	2014	2013	2012	2011	3-Year	5-Year
Net Investment Return Rate	9.0%	9.4%	8.6%	6.8%	0.5%	9.0%	6.8%
Rate of Change in Average Pay	3.0%	3.9%	2.5%	0.2%	5.5%	3.1%	3.0%
Difference: Actual	6.0%	5.5%	6.1%	6.6%	(5.0)%	5.9%	3.8%
Target	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%

RATES OF MORTALITY. The 1994 Group Annuity Mortality Tables, set back 0 years for men and 0 years for women. Post-disabled mortality is set forward 10 years. This table was first used for the October 1, 2002 valuation. No margin for future mortality improvements is included in these tables. A 3.0% load was used as a margin for future mortality improvements. **We recommend changing the mortality table so that it reflects additional mortality improvement.**

Ages	1994 GAM Table%			
	Value of		Future Life	
	\$1 Monthly for Life		Expectancy (Years)	
	Men	Women	Men	Women
50	\$134.63	\$140.32	30.69	34.89
55	127.16	134.40	26.15	30.17
60	117.78	126.60	21.83	25.59
65	106.80	117.13	17.84	21.28
70	94.73	106.11	14.29	17.30
75	81.36	92.79	11.12	13.60
80	67.17	77.98	8.37	10.31

This estimate is used to measure the probabilities of members dying before retirement and the probabilities of each benefit payment being made after retirement. The rates before retirement assume 75% will be duty related and have been multiplied by 50%.

RATES OF WITHDRAWAL FROM ACTIVE MEMBERSHIP. The rates do not apply to members eligible to retire and do not include separation on account of death or disability. This assumption measures the probabilities of members remaining in employment.

Sample Ages	Years of Service	% of Active Members Separating During Next Year
	0	12.00%
	1	9.00%
	2	7.00%
	3	5.00%
	4	4.50%
25	5 & Over	9.90%
30		9.68%
35		7.81%
40		4.84%
45		2.53%
50		2.09%
55		2.09%
60		2.09%

These rates were first used for the October 1, 2002 valuation.

RATES OF DISABILITY. These estimates represent the probabilities of active members becoming disabled.

Sample Ages	% of Active Members Becoming Disabled During Next Year
20	0.07%
25	0.09%
30	0.10%
35	0.14%
40	0.21%
45	0.32%
50	0.52%
55	0.92%
60	1.53%
65	1.65%

The rates assume 75% of disabilities will be duty related.

These rates were first used for the October 1, 1995 valuation.

RATES OF RETIREMENT. These rates are used to measure the probabilities of an eligible member retiring during the next year.

Retirement Ages	Age Based	Yrs. of Service	Service Based	Early Retirement Ages	Early Retirement Rates
52	50%	30	100%	45	5%
53	30%			46	5%
54	30%			47	5%
55	30%			48	5%
56	30%			49	5%
57	20%			50	5%
58	20%			51	5%
59	20%			52	5%
60	20%			53	5%
61	20%			54	5%
62	100%				

A Police member is eligible for normal retirement after 30 years of service, or after attaining age 52 with 25 years of service, or after attaining age 55 with 5 or more years of service (10 years if less than 10 years of service as of June 23, 2014).

A Police member is eligible for early retirement after 20 years of service or after attaining age 50 with 10 years of service, if eligible for early retirement by June 23, 2014.

These rates were first used for the October 1, 2002 valuation.

ADMINISTRATIVE EXPENSES. Administrative expenses are projected to continue at the same percent-of-payroll as experienced during the preceding fiscal year.

INVESTMENT EXPENSES. Investment expenses are offset against gross investment income.

ACTIVE MEMBER GROUP SIZE. The valuation was based on a constant active member group size. This is unchanged from previous valuations.

VESTED MEMBERS who terminate with a benefit worth less than 100% of their own accumulated contributions were assumed to forfeit their vested benefit.

COMPENSATION reported for the actuarial valuation includes all amounts included in final average compensation for benefit purposes with the exception of lump sums for accumulated sick and vacation time.

**SUMMARY OF ASSUMPTIONS USED
SEPTEMBER 30, 2015**

Pensions in an Inflationary Environment

**Value of \$1,000/Month Retirement Benefit
to an Individual Who Retires at Age 52
in an Environment of 3.0% Inflation**

<u>Age</u>	<u>Value</u>
52	\$1,000
53	971
54	943
55	916
60	790
65	682
70	588
75	507
80	437
85	377

The life expectancy of a 52 year old male retiree is age 79. The life expectancy for a 52 year old female retiree is age 85. Half of the people will outlive their life expectancy. The effects of even moderate amounts of inflation can be significant for those who live to an advanced age.

SUMMARY OF ASSUMPTIONS USED MISCELLANEOUS AND TECHNICAL ASSUMPTIONS

Marriage Assumption. 100% of males and 100% of females are assumed to be married for purposes of death-in-service benefits.

Pay Increase Timing. Beginning of (Fiscal) year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.

Decrement Timing. Decrements of all types are assumed to occur mid-year.

Eligibility Testing. Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.

Benefit Service. Exact fractional service is used to determine the amount of benefit payable.

Decrement Relativity. Decrement rates are used without adjustment for multiple decrement table effects.

Decrement Operation. Disability and mortality decrements do not operate during the first 5 years of service. Disability and withdrawal do not operate during retirement eligibility.

Normal Form of Benefit. The normal form of benefit is a benefit payable for the life of the retired member with the first 10 years guaranteed. Optional benefit forms are available on an actuarial equivalent basis.

Loads. A 3.0% load on the present value of future benefits was used as a margin for future mortality improvements.

Incidence of Contributions. Contributions are assumed to be received continuously throughout the year based upon the computed percent-of-payroll shown in this report, and the actual payroll payable at the time contributions are made. New entrant normal cost contributions are applied to the funding of new entrant benefits.

DEFINITIONS OF TECHNICAL TERMS

Accrued Service. Service credited under the system which was rendered before the date of the actuarial valuation.

Actuarial Accrued Liability. The difference between the actuarial present value of future benefit payments and the actuarial present value of future normal costs. Also referred to as "accrued liability" or "past service liability."

Actuarial Assumptions. Estimates of expected future experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and salary increases. Decrement estimates (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic estimates (salary increases and investment income) consist of the underlying rates in an inflation-free environment plus a provision for a long-term average rate of inflation.

Actuarial Cost Method. A mathematical budgeting procedure for allocating the dollar amount of the "actuarial present value of future benefit payments" between future normal costs and actuarial accrued liabilities. Sometimes referred to as the "actuarial valuation cost method."

Actuarial Equivalent. A single amount or series of amounts of equal actuarial present value to another single amount or series of amounts, computed on the basis of appropriate actuarial assumptions.

Actuarial Present Value. The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest, and by probabilities of payment. Also referred to as "present value."

Amortization. Paying off an interest-discounted amount with periodic payments of interest and principal -- as opposed to paying off with a lump sum payment.

DEFINITIONS OF TECHNICAL TERMS (CONCLUDED)

Experience Gain (Loss). The difference between actual actuarial costs and assumed actuarial costs -- during the period between two valuation dates.

Funding Value of Assets. Also referred to as actuarial value of assets, smoothed market value of assets, or valuation assets.

Valuation assets recognize assumed investment return fully each year. Differences between actual and assumed investment return are phased-in over a closed 4-year period. During periods when investment performance exceeds the assumed rate, valuation assets will tend to be less than market value. During periods when investment performance is less than the assumed rate, valuation assets will tend to be greater than market value. If assumed rates are exactly realized for 3 consecutive years, valuation assets will become equal to market value.

Normal Cost. The actuarial cost allocated to the current year by the actuarial cost method. Sometimes referred to as "current service cost."

Pension Benefit Obligation. A standardized disclosure measure of the present value of pension benefits, adjusted for the effects of projected salary increases, estimated to be payable in the future as a result of employee service to date. The PBO is independent of the actuarial funding method used to determine contributions.

Unfunded Actuarial Accrued Liability. The difference between actuarial accrued liability and the funding value of system assets. Sometimes referred to as "unfunded past service liability," "unfunded accrued liability" or "unfunded supplemental present value."

Most retirement systems have unfunded actuarial accrued liability. An amount arises each time new benefits are added and each time an experience loss occurs.

The existence of unfunded actuarial accrued liability is not in itself bad, any more than a mortgage on a house is bad. Unfunded actuarial accrued liability does not represent a debt that is payable today. What is important is the ability to control the amount of unfunded actuarial accrued liability and the trend in the amount (after due allowance for devaluation of the dollar).

SECTION D

ADDITIONAL DISCLOSURE INFORMATION

GASB Statements No. 67 and No. 68 are the accounting standards which replaced GASB Statements No. 25 and No. 27. GASB Statement No. 67 is first effective for fiscal year 2014 and GASB Statement No. 68 is first effective for fiscal year 2015. A separate GASB Statements No. 67 and No. 68 report has been issued outside of this report. This section contains historical GASB Statements No. 25 and No. 27 reporting information for prior fiscal years and illustrative information for fiscal year 2015.

CONTRIBUTIONS REQUIRED AND CONTRIBUTIONS MADE

The City's funding policy provides for periodic employer contributions at actuarially determined rates that, expressed as percentages of annual covered payroll, are designed to accumulate sufficient assets to pay benefits when due. The normal cost and actuarial accrued liability are determined using an entry-age actuarial funding method. Unfunded actuarial accrued liability is being amortized as a level percent-of-payroll over periods of 5 to 25 years.

During the year ended September 30, 2015, contributions totaling \$891,500 -- \$562,835 employer and \$328,665 employee -- were made in accordance with contribution requirements determined by an actuarial valuation of the plan as of October 1, 2013. The employer contributions consisted of \$318,089 for normal cost and administrative expenses and \$224,415 for amortization of the unfunded actuarial accrued liability and \$20,331 for additional premium tax revenue. Employer contributions represented 14.0% of covered payroll.

Significant actuarial assumptions used to compute contribution requirements were the same as those used to compute the standardized measure of the actuarial accrued liability.

COMPUTED EMPLOYER CONTRIBUTION COMPARATIVE SCHEDULE

Fiscal Year Beginning October 1	Valuation Date	Contribution Rates as Percents of Valuation Payroll	Valuation Payroll	Dollar Contribution for Fiscal Year	
				Computed	Actual
2005	10/01/2004 *	12.5 %	\$ 2,820,206	\$ 376,586	\$425,205
2006	10/01/2005 *	12.9	3,231,262	443,557	532,674
2007	10/01/2006	13.8	3,181,070	468,951	528,361
2008	10/01/2007	13.2	3,571,835	503,281	550,995
2009	10/01/2008 *	17.0	3,930,907	713,865	690,515
2010	10/01/2009	18.8	3,873,001	777,408	777,408
2011	10/01/2010	19.7	3,896,087	818,251	818,251
2012	10/01/2011	23.0	3,785,736	930,958	930,958
2013	10/01/2012 *	12.3	3,743,405	490,666	530,453
2014	10/01/2013 *	13.4	3,559,498	511,049	562,835
2015	10/01/2014 *	15.0	3,945,943	633,555	
2016	10/01/2015 *	16.1	4,006,158	678,304	

* After changes in benefit provisions and/or actuarial assumptions.

ACTUARIAL ACCRUED LIABILITY

The actuarial accrued liability is a measure intended to help users assess (i) a pension fund's funded status on a going-concern basis, and (ii) progress being made toward accumulating the assets needed to pay benefits as due. Allocation of the actuarial present value of projected benefits between past and future service was based on service using the individual entry-age actuarial cost method. Assumptions, including projected pay increases, were the same as used to determine the Fund's level percent-of-payroll annual required contribution between entry-age and assumed exit age. Entry-age was established by subtracting credited service from current age on the valuation date.

The preceding methods comply with the financial reporting standards established by the Governmental Accounting Standards Board.

The entry age actuarial accrued liability was determined as part of an actuarial valuation of the plan as of October 1, 2015. Significant actuarial assumptions used in determining the entry age actuarial accrued liability include (a) a rate of return on the investment of present and future assets of 8% per year compounded annually, (b) projected salary increases of 3.5% per year compounded annually, 3.0% attributable to inflation and 0.5% attributable to other causes, (c) additional projected salary increases of 3.8% to 0.0% per year, depending on age, attributable to seniority/merit, and (d) the assumption that benefits will not increase after retirement.

As of October 1, 2015, the unfunded actuarial accrued liability was \$2,529,318, determined as follows:

Actuarial Accrued Liability:	
Active participants (33 vested and 30 non-vested)	\$ 10,015,622
Retired participants and beneficiaries currently receiving benefits (42 vested)	11,739,460
Vested terminated participants not yet receiving benefits (3 vested)	235,630
Extra Benefit Reserve	27,342
DROP Balances	0
Total Actuarial Accrued Liability	22,018,054
Actuarial Value of Assets (market value was \$18,751,766)	19,488,736
Unfunded Actuarial Accrued Liability	\$ 2,529,318

During the year ended September 30, 2015 the plan experienced a net change of \$1,239,294 in the Actuarial Accrued Liability, of which \$714,017 was due to changes in actuarial assumptions. There were no changes in benefit provisions and methods.

SUPPLEMENTARY INFORMATION SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation Date October 1	Actuarial Value of Assets# (a)	Actuarial Accrued Liability (AAL) Entry Age (b)	Unfunded AAL (b)-(a)	Funded Ratio (a)/(b)	Active Participant Covered Payroll (c)	Unfunded AAL as a Percentage of Active Member Covered Payroll ((b-a)/c)
1996	\$34,171	\$34,336	\$ 165	99.5 %	\$ 10,537	1.6 %
1997 *	38,554	37,440	(1,114)	103.0	10,658	(10.5)
1998	43,678	39,897	(3,781)	109.5	10,536	(35.9)
1999 @	12,142	11,171	(971)	108.7	2,268	(42.8)
2000 *	13,280	12,005	(1,275)	110.6	2,419	(52.7)
2001	13,634	12,607	(1,026)	108.1	2,280	(45.0)
2002	13,350	13,415	64	99.5	2,535	2.5
2003	13,162	14,023	861	93.9	3,028	28.4
2004 *	12,833	14,497	1,664	88.5	2,820	59.0
2005	13,021	15,867	2,846	82.1	3,231	88.1
2006	13,707	16,513	2,806	83.0	3,181	88.2
2007	14,694	17,434	2,740	84.3	3,572	76.7
2008 *	15,104	19,480	4,376	77.5	3,931	111.3
2009	15,342	20,083	4,741	76.4	3,873	122.4
2010	15,646	20,688	5,042	75.6	3,896	129.4
2011	15,458	21,630	6,172	71.5	3,786	163.0
2012	16,365	22,171	5,806	73.8	3,743	155.1
2013	17,469	22,653	5,184	77.1	3,559	145.6
2014 *	18,367	20,779	2,412	88.4	3,946	61.1
2015 *	19,489	22,018	2,529	88.5	4,006	63.1

Dollar amounts are in thousands.

* After changes in benefits and/or actuarial assumptions and/or actuarial cost methods.

@ Prior to 1999, results include General, Police and Fire.

Analysis of the dollar amounts of actuarial value of assets, actuarial accrued liability, or unfunded actuarial accrued liability in isolation can be misleading. Expressing the actuarial value of assets as a percentage of the actuarial accrued liability provides one indication of the System's funded status on a going-concern basis. Analysis of this percentage over time indicates whether the System is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the plan. The unfunded actuarial accrued liability and annual covered payroll are both affected by inflation. Expressing the unfunded actuarial accrued liability as a percentage of covered payroll approximately adjusts for the effects of inflation and aids analysis of the progress being made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the plan.

SECTION E

SUMMARY OF VALUATION RESULTS IN STATE FORMAT

SUMMARY OF VALUATION RESULTS IN STATE FORMAT
(\$ AMOUNTS IN THOUSANDS)

	October 1, 2015		October 1, 2014
	After	Before	
(a) Participant Data			
(i) Active members - number	63	63	62
- annual payroll	\$ 4,006	\$ 4,006	\$ 3,946
(ii) Retired members & beneficiaries (excl. disability)			
- number	34	34	33
- annualized benefit payroll	\$ 1,062	\$ 1,062	\$ 1,069
(iii) Disabled members & beneficiaries			
- number	8	8	8
- annualized benefit payroll	\$ 195	\$ 195	\$ 195
(iv) Terminated vested members			
- number	3	3	2
- annualized deferred benefit payroll	\$ 59	\$ 59	\$ 45
(b) Assets			
(i) Actuarial value for funding	19,489	19,489	18,367
(ii) Market value	18,752	18,752	19,317
(c) Actuarial Liability			
(i) Actuarial present value of active member benefits:			
service retirement	\$12,141	\$11,835	\$11,182
termination benefits - pension	1,524	1,567	1,596
disability retirement	646	662	658
survivor benefits (pre-retirement)	229	234	229
termination benefits - refunds	195	199	163
extra benefit reserve	27	27	7
Total	\$14,763	\$14,524	\$13,834
(ii) Actuarial present value of terminated vested member benefits	236	229	191
(iii) Actuarial present value of retired member benefits:			
service retirement & survivors	\$10,157	\$9,861	\$10,055
DROP reserve	0	0	0
disability retirement & survivors	1,583	1,537	1,578
Total	\$11,739	\$11,398	\$11,633
(iv) Total actuarial present value of future benefit payments	26,738	26,151	25,659
(v) Payables	0	0	0
(vi) Actuarial accrued liability	22,018	21,304	20,779
(vii) Unfunded actuarial accrued liability(1)	2,529	1,815	2,412

(1) Please refer to page A-11 for requested detail.

SUMMARY OF VALUATION RESULTS IN STATE FORMAT
(\$ AMOUNTS IN THOUSANDS)

	October 1, 2015		October 1, 2014
	After	Before	
(d) Actuarial Present Value of Accrued Benefits (calculated in accordance with FASB Statement No. 35)			
(i) Vested accrued benefits			
Retired members and beneficiaries	\$ 11,739	\$ 11,398	\$ 11,633
Terminated members	236	229	191
Active members (includes non-forfeitable accum. member contributions of \$3,119 for 2015 and \$2,833 for 2014)	7,442	7,237	6,588
Total	\$ 19,417	\$ 18,863	\$ 18,413
(ii) Non-vested accrued benefits	710	739	628
(iii) Total actuarial p.v. of accrued benefits	20,127	19,602	19,041
(iv) Actuarial p.v. of accrued benefits at begin. of year	19,041	19,041	19,098
(v) Changes attributable to:			
Amendments	0	0	(427)
Assumption change	525	0	0
Operation of decrements	1,887	1,887	1,796
Benefit payments and refunds	(1,326)	(1,326)	(1,426)
Other	none	none	none
(vi) Net change	1,086	561	(57)
(vii) Actuarial p.v. of accr. benefits at end of year	\$ 20,127	\$ 19,602	\$ 19,041
(e) Plan costs for fiscal year beginning October 1, 2016 and October 1, 2015 (EANC)			
(i) Normal costs			
Service pensions	9.62%	9.59%	9.62%
Disability pensions	0.96%	0.97%	0.96%
Survivor pensions (pre-retirement)	0.28%	0.28%	0.28%
Deferred service pensions	2.55%	2.60%	2.61%
Refunds of member contributions	0.71%	0.68%	0.64%
Total normal cost	14.12%	14.12%	14.11%
(ii) Payment to amortize unf'd. act. accr. liab.	7.60%	6.23%	6.35%
(iii) FS112.64(5) Compliance	0.52%	0.55%	0.38%
(iv) Administrative expenses	1.79%	1.79%	2.06%
(v) Amount to be paid by members	7.95%	7.95%	7.95%
(vi) Expected plan sponsor/Chapter 185 contribution	16.08%	14.74%	14.95%
- dollars	678	631	630

SUMMARY OF VALUATION RESULTS IN STATE FORMAT
(\$ AMOUNTS IN THOUSANDS)

		October 1, 2015		October 1, 2014
		After	Before	
(f)	Past Contributions (fiscal year ending 9/30/2015 & 2014)			
	(i) Required minimum:			
	Plan sponsor/Chapter 185 monies	\$ 511	\$ 511	\$ 491
	Members	302	302	276
	Total	\$ 813	\$ 813	\$ 767
	(ii) Actual:			
	Plan sponsor/Chapter 185 monies	543	543	523
	Members	329	329	264
	Total	\$ 871	\$ 871	\$ 787
(g)	Net Experience Gain (Loss)	557	557	816
(h)	Other Disclosures			
	(i) Present value of active member future salaries			
	from attained age	\$34,025	\$35,638	\$35,911
	from entry age		not applicable to individual EANC method	
	(ii) Present value of active member future contribs.			
	from attained age	\$ 2,705	\$ 2,833	\$ 2,855
	from entry age		not applicable to individual EANC method	
(i)	Actuarial Present Value of Accrued Benefits Using FRS Interest Rate			
	(i) Vested	\$19,919	\$19,351	\$18,895
	(ii) Non-Vested	752	718	662
	(iii) Total	\$20,670	\$20,069	\$19,557
	(iv) Market Value of Assets (MVA)	18,752	18,752	19,317
	(v) Funded Ratio Using FRS Interest Rate and MVA	90.72	93.44	98.77 %

**RECONCILIATION OF MEMBERSHIP
FOR THE PLAN YEAR ENDED SEPTEMBER 30, 2015**

	Active Members	Vested Terminated Members	Pension Recipients		
			Service Retired	Disability Retired	All Beneficiaries
No. at Start of Year	62	2	30	7	4
Increase (Decrease) from					
Service Retirement	(1)		1		
DROP Retirement					
Disability Retirement					
Deaths			(2)		2
Other Pension Terminations					
Vested Terminations	(1)	1			
Non-Vested Terminations	(6)				
Transfer from another division					
New Entrants/Rehires	9				
No. at End of Year	63	3	29	7	6

April 28, 2016

Ms. Jeri Benjamin
Pension Administrator
City of Jacksonville Beach
11 North Third Street
Jacksonville Beach, FL 32250

Dear Jeri:

Enclosed are 15 copies of the report of the Sixty-Fifth Annual Valuation of the City of Jacksonville Beach Police Officers' Retirement System. As directed, copies have been sent directly to:

Attention: Mr. Ryan Tucker
Purvis, Gray and Company
P.O. Box 23999
222 N.E. 1st Street
Gainesville, FL 32602

Attention: Ms. Sarah Carr, Benefits Administrator
Division of Retirement
Municipal Police Officers' & Firefighters'
Retirement Trust Funds Office
P.O. Box 3010
Tallahassee, FL 32315-3010

Attention: Mr. Douglas E. Beckendorf, Actuary
Local Retirement Section
Division of Retirement
P.O. Box 9000
Tallahassee, FL 32315-9000

Sincerely,



Brad Lee Armstrong, ASA, EA, FCA, MAAA

BLA:dj
Enclosures