



September 17, 2021

Ms. Casey Howard, M.B.A., S.P.H.R.
Deputy City Manager
City of Winter Springs
1126 East State Road 434
Winter Springs, Florida 32708

**Re: City of Winter Springs Defined Benefit Plan
October 1, 2020 Chapter 112.664 Compliance Report**

Dear Casey:

As requested, we are pleased to enclose the October 1, 2020 Chapter 112.664 Compliance Report for the City of Winter Springs Defined Benefit Plan (Plan).

As required, we will timely upload the required data to the State's online portal.

Please note we understand the following items must be posted on the Plan's website and must be posted on any website containing budget information relating to the City or actuarial or performance information relating to the Plan:

- this compliance report
- most recent financial statement
- most recent actuarial valuation report
- a link to the Division of Retirement Actuarial Summary Fact Sheet
http://www.dms.myflorida.com/workforce_operations/retirement/local_retirement_plans/local_retirement_section/actuarial_summary_fact_sheets
- for the previous five years - a side-by-side comparison of the Plan's assumed rate of return compared to the actual rate of return as well as the percentages of cash, equity, bond and alternative investments in the Plan portfolio
- the Plan's funded ratio as determined in the most recent actuarial valuation – 87.0% on a market value of assets basis as of October 1, 2020

We appreciate the opportunity to work with the Board on this important assignment.

If you should have any questions concerning the above, please do not hesitate to contact us.

Sincerest regards,

A handwritten signature in black ink that reads "Jennifer Borregard". The signature is written in a cursive, flowing style.

Jennifer M. Borregard, E.A.
Consultant and Actuary

Enclosure

City of Winter Springs Defined Benefit Plan

CHAPTER 112.664, F.S. COMPLIANCE REPORT

In Connection with the October 1, 2020 Funding Actuarial Valuation Report and the Plan's
Financial Reporting for Fiscal Year Ended September 30, 2020





September 17, 2021

Board of Trustees
c/o Ms. Casey Howard, M.B.A., S.P.H.R.
Deputy City Manager
City of Winter Springs Defined Benefit Plan
1126 East State Road 434
Winter Springs, Florida 32708

Re: October 1, 2020 Chapter 112.664 Compliance Report

Dear Board Members:

Gabriel, Roeder, Smith & Company (GRS) has been engaged by the Board of Trustees (Board) of the City of Winter Springs Defined Benefit Plan (Plan) to prepare a disclosure report to satisfy the requirements set forth in Chapter 112.664, F.S. and as further required pursuant to Chapter 60T-1.0035, F.A.C.

This report was prepared at the request of the Board and is intended for use by the Board and those designated or approved by the Board. This report may be provided to parties other than the Board only in its entirety and only with the permission of the Board.

The purpose of the report is to provide the required information specified in Chapter 112.664, F.S. and to supplement this information with additional exhibits. This report should not be relied on for any purpose other than the purpose described above.

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. The scope of this engagement does not include an analysis of the potential range of such measurements.

This report is based upon information furnished by the City and the Board concerning Plan benefits, Plan provisions and Plan members as used in the corresponding Actuarial Valuation Reports for the Valuation Dates indicated. Financial information was provided by the City and Board as of September 30, 2020. We reviewed the information provided for internal and year-to-year consistency, but did not audit the data. The Plan is responsible for the accuracy of the data.

Except where specific assumptions are required by Chapter 112.664, F.S, this report was prepared using actuarial assumptions adopted by the Board as described in Section C. The economic and demographic actuarial assumptions reflect the results of an Experience Study for the five-year period October 1, 2011 – September 30, 2016. The mortality assumptions are prescribed by statute. Each assumption represents an estimate of future Plan experience.

The investment return assumption of 2% higher than the investment return assumption utilized in the Actuarial Valuation Report does not represent an estimate of future Plan experience nor an observation of the estimates inherent in market data. This assumption is provided as a counterpart to the Chapter 112.664, F.S. requirement to utilize an investment return assumption of 2% lower than the investment return assumption utilized in the Actuarial Valuation Report. The inclusion of the additional 2% higher assumption shows a more complete assessment of the range of potential results as opposed to the *one-sided* range required by statute.

If all actuarial assumptions are met and if all current and future minimum required contributions are paid, Plan assets will be sufficient to pay all Plan benefits, future contributions are expected to remain relatively stable as a percentage of payroll and the funded status of the Plan is expected to improve. Plan minimum required contributions are determined in compliance with the requirements of the Florida Protection of Public Employee Retirement Benefits Act with normal cost determined as a level percent of covered payroll and a level dollar amortization payment using an initial closed amortization period of 30 years.

The Plan's funded ratio as of October 1, 2020 is 87.0% defined as the ratio of the market value of Plan assets to the actuarial accrued liability.

The Plan's funded ratio and the GASB Net Pension Liability may not be appropriate for assessing the sufficiency of Plan assets to meet the estimated cost of settling benefit obligations but may be appropriate for assessing the need for or the amount of future contributions.

This report was prepared using ProVal's valuation model, a software product of Winklevoss Technologies. We are relying on the ProVal model. We performed tests of the ProVal model with this assignment and made a reasonable attempt to understand the developer's intended purpose of, general operation of, major sensitivities and dependencies within, and key strengths and limitations of the ProVal model. In our professional judgment, the ProVal valuation model has the capability to provide results that are consistent with the purposes of the valuation.

The undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The signing actuaries are independent of the Plan sponsor.

This report has been prepared by actuaries who have substantial experience valuing public



employee retirement systems. To the best of our knowledge the information contained in this report is accurate and presents the actuarial position of the Plan as of the valuation date as required by statute. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

With respect to the reporting standards for defined benefit retirement plans or systems contained in Section 112.664(1), F.S., the actuarial disclosures required under this section were 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, meet the requirements of Section 112.664(1), F.S., and Section 60T-1.0035, F.A.C.

Respectfully submitted,

GABRIEL, ROEDER, SMITH AND COMPANY

By Michelle Jones

Shelly L. Jones, M.A.A.A.
Enrolled Actuary No. 20-08646
Consultant & Actuary

By Jennifer Borregard

Jennifer M. Borregard, M.A.A.A.
Enrolled Actuary No. 20-07624
Consultant & Actuary



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SECTION A

CHAPTER 112.664, F.S. RESULTS

Net Pension Liability
Using Financial Reporting Assumptions per GASB Statements No. 67 and No. 68

Measurement Date	<u>September 30, 2020</u>
A. <u>Total Pension Liability (TPL)</u>	
Service Cost	\$ 401,950
Interest	4,736,276
Benefit Changes	0
Difference Between Actual and Expected Experience	569,125
Assumption Changes	479,182
Benefit Payments	(3,821,626)
Other	<u>0</u>
Net Change in Total Pension Liability	\$ 2,364,907
Total Pension Liability (TPL) - (beginning of year)	<u>63,610,901</u>
Total Pension Liability (TPL) - (end of year)	<u><u>\$ 65,975,808</u></u>
B. <u>Plan Fiduciary Net Position</u>	
Contributions - County and City	\$ 3,213,927
Contributions - Member	217,975
Net Investment Income	4,254,000
Benefit Payments	(3,821,626)
Administrative Expenses	(32,984)
Other	<u>0</u>
Net Change in Plan Fiduciary Net Position	\$ 3,831,292
Plan Fiduciary Net Position - (beginning of year)	<u>54,713,697</u>
Plan Fiduciary Net Position - (end of year)	<u><u>\$ 58,544,989</u></u>
C. <u>Net Pension Liability (NPL) - (end of year): (A) - (B)</u>	\$ 7,430,819
Valuation Date	October 1, 2019

Certain Key Assumptions

Investment Return Assumption 7.50%
Mortality Table:

Firefighter, Police Officer and Forensic Professional participants: For healthy participants during employment, PUB-2010 Headcount Weighted Safety Employee Female Mortality Table and Safety Below Median Employee Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted Safety Healthy Retiree Female Mortality Table and Safety Below Median Healthy Retiree Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, 80% PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table / 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Mortality Table, separate rates for males and females, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. General Employee participants: For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.



Net Pension Liability
Using Assumptions Required Under 112.664(1)(b), F.S.

Measurement Date	<u>September 30, 2020</u>
A. <u>Total Pension Liability (TPL)</u>	
Service Cost	\$ 690,916
Interest	4,395,041
Benefit Changes	0
Difference Between Actual and Expected Experience	969,601
Assumption Changes	478,436
Benefit Payments	(3,821,626)
Other	<u>0</u>
Net Change in Total Pension Liability	\$ 2,712,368
Total Pension Liability (TPL) - (beginning of year)	<u>79,681,699</u>
Total Pension Liability (TPL) - (end of year)	<u>\$ 82,394,067</u>
B. <u>Plan Fiduciary Net Position</u>	
Contributions - County and City	\$ 3,213,927
Contributions - Member	217,975
Net Investment Income	4,254,000
Benefit Payments	(3,821,626)
Administrative Expenses	(32,984)
Other	<u>0</u>
Net Change in Plan Fiduciary Net Position	\$ 3,831,292
Plan Fiduciary Net Position - (beginning of year)	<u>54,713,697</u>
Plan Fiduciary Net Position - (end of year)	<u>\$ 58,544,989</u>
C. <u>Net Pension Liability (NPL) - (end of year): (A) - (B)</u>	\$ 23,849,078
Valuation Date	October 1, 2019

Certain Key Assumptions

Investment Return Assumption 5.50%

Mortality Table:

Firefighter, Police Officer and Forensic Professional participants: For healthy participants during employment, PUB-2010 Headcount Weighted Safety Employee Female Mortality Table and Safety Below Median Employee Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted Safety Healthy Retiree Female Mortality Table and Safety Below Median Healthy Retiree Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, 80% PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table / 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Mortality Table, separate rates for males and females, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. General Employee participants: For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.



Net Pension Liability

Using Assumptions Required Under 112.664(1)(a), F.S. Plus 2% on Investment Return Assumption

Measurement Date	<u>September 30, 2020</u>
A. <u>Total Pension Liability (TPL)</u>	
Service Cost	\$ 247,238
Interest	4,883,219
Benefit Changes	0
Difference Between Actual and Expected Experience	344,246
Assumption Changes	426,931
Benefit Payments	(3,821,626)
Other	<u>0</u>
Net Change in Total Pension Liability	\$ 2,080,008
Total Pension Liability (TPL) - (beginning of year)	<u>52,294,698</u>
Total Pension Liability (TPL) - (end of year)	<u>\$ 54,374,706</u>
B. <u>Plan Fiduciary Net Position</u>	
Contributions - County and City	\$ 3,213,927
Contributions - Member	217,975
Net Investment Income	4,254,000
Benefit Payments	(3,821,626)
Administrative Expenses	(32,984)
Other	<u>0</u>
Net Change in Plan Fiduciary Net Position	\$ 3,831,292
Plan Fiduciary Net Position - (beginning of year)	<u>54,713,697</u>
Plan Fiduciary Net Position - (end of year)	<u>\$ 58,544,989</u>
C. <u>Net Pension Liability (NPL) - (end of year): (A) - (B)</u>	\$ (4,170,283)
Valuation Date	October 1, 2019

Certain Key Assumptions

Investment Return Assumption 9.50%

Mortality Table:

Firefighter, Police Officer and Forensic Professional participants: For healthy participants during employment, PUB-2010 Headcount Weighted Safety Employee Female Mortality Table and Safety Below Median Employee Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted Safety Healthy Retiree Female Mortality Table and Safety Below Median Healthy Retiree Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, 80% PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table / 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Mortality Table, separate rates for males and females, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. General Employee participants: For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.



Asset and Benefit Payment Projection
Not Reflecting Any Future Contributions
Using Financial Reporting Assumptions per GASB Statements No. 67 and No. 68
and Using Assumptions Required Under 112.664(1)(a), F.S.

FYE	Market Value of Assets (BOY)	Expected Investment Return	Projected Benefit Payments	Market Value of Assets (EOY)
2021	\$ 58,544,989	\$ 4,163,632	\$ 4,255,076	\$ 58,453,545
2022	58,453,545	4,148,059	4,477,175	58,124,429
2023	58,124,429	4,115,829	4,675,816	57,564,442
2024	57,564,442	4,070,659	4,769,923	56,865,178
2025	56,865,178	4,015,353	4,859,728	56,020,803
2026	56,020,803	3,946,214	5,027,615	54,939,402
2027	54,939,402	3,858,869	5,212,272	53,585,999
2028	53,585,999	3,755,576	5,291,506	52,050,069
2029	52,050,069	3,637,893	5,393,003	50,294,959
2030	50,294,959	3,508,966	5,369,008	48,434,917
2031	48,434,917	3,370,549	5,388,524	46,416,942
2032	46,416,942	3,219,578	5,429,923	44,206,597
2033	44,206,597	3,055,377	5,445,948	41,816,026
2034	41,816,026	2,879,589	5,417,836	39,277,779
2035	39,277,779	2,692,859	5,390,089	36,580,549
2036	36,580,549	2,495,827	5,325,451	33,750,925
2037	33,750,925	2,287,964	5,286,873	30,752,016
2038	30,752,016	2,067,782	5,243,063	27,576,735
2039	27,576,735	1,836,197	5,157,665	24,255,267
2040	24,255,267	1,593,989	5,067,339	20,781,917
2041	20,781,917	1,341,456	4,953,972	17,169,401
2042	17,169,401	1,079,316	4,823,151	13,425,566
2043	13,425,566	807,577	4,689,347	9,543,796
2044	9,543,796	526,365	4,537,034	5,533,127
2045	5,533,127	235,526	4,386,931	1,381,722
2046	1,381,722	12,219	4,227,315	-
2047	-	-	4,054,329	-
2048	-	-	3,865,309	-
2049	-	-	3,674,886	-
2050	-	-	3,490,083	-

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits reflecting no contributions from the City, County or Members: 25.25

Certain Key Assumptions

Investment return assumption 7.40%

Mortality Table:

Firefighter, Police Officer and Forensic Professional participants: For healthy participants during employment, PUB-2010 Headcount Weighted Safety Employee Female Mortality Table and Safety Below Median Employee Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted Safety Healthy Retiree Female Mortality Table and Safety Below Median Healthy Retiree Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, 80% PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table / 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Mortality Table, separate rates for males and females, without projected mortality improvements. General Employee participants: For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.

Note: As required in Section 112.664(1)(c) of the Florida Statutes, the projection of Plan assets does not include future contributions from the City, County or Members. For this reason, this projection should not be viewed as representative of the amount of time the Plan can sustain benefit payments. Under the Government Accounting Standards Board standards which include City, County and Member contributions, the Plan is expected to be able to pay all future benefit payments.



Asset and Benefit Payment Projection
Not Reflecting Any Future Contributions
Using Assumptions Required Under 112.664(1)(b), F.S.

FYE	Market Value of Assets (BOY)	Expected Investment Return	Projected Benefit Payments	Market Value of Assets (EOY)
2021	\$ 58,544,989	\$ 3,037,968	\$ 4,255,076	\$ 57,327,881
2022	57,327,881	2,965,800	4,477,175	55,816,506
2023	55,816,506	2,878,423	4,675,816	54,019,113
2024	54,019,113	2,778,633	4,769,923	52,027,823
2025	52,027,823	2,668,497	4,859,728	49,836,592
2026	49,836,592	2,545,300	5,027,615	47,354,277
2027	47,354,277	2,405,897	5,212,272	44,547,902
2028	44,547,902	2,252,054	5,291,506	41,508,450
2029	41,508,450	2,084,978	5,393,003	38,200,425
2030	38,200,425	1,907,041	5,369,008	34,738,458
2031	34,738,458	1,719,529	5,388,524	31,069,463
2032	31,069,463	1,520,202	5,429,923	27,159,742
2033	27,159,742	1,308,612	5,445,948	23,022,406
2034	23,022,406	1,086,011	5,417,836	18,690,581
2035	18,690,581	852,898	5,390,089	14,153,390
2036	14,153,390	609,765	5,325,451	9,437,704
2037	9,437,704	356,237	5,286,873	4,507,068
2038	4,507,068	94,970	5,243,063	-
2039	-	-	5,157,665	-
2040	-	-	5,067,339	-
2041	-	-	4,953,972	-
2042	-	-	4,823,151	-
2043	-	-	4,689,347	-
2044	-	-	4,537,034	-
2045	-	-	4,386,931	-
2046	-	-	4,227,315	-
2047	-	-	4,054,329	-
2048	-	-	3,865,309	-
2049	-	-	3,674,886	-
2050	-	-	3,490,083	-

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits reflecting no contributions from the City, County or Members: 17.83

Certain Key Assumptions

Investment return assumption 5.40%

Mortality Table:

Firefighter, Police Officer and Forensic Professional participants: For healthy participants during employment, PUB-2010 Headcount Weighted Safety Employee Female Mortality Table and Safety Below Median Employee Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted Safety Healthy Retiree Female Mortality Table and Safety Below Median Healthy Retiree Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, 80% PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table / 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Mortality Table, separate rates for males and females, without projected mortality improvements. General Employee participants: For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.

Note: As required in Section 112.664(1)(c) of the Florida Statutes, the projection of Plan assets does not include future contributions from the City, County or Members. For this reason, this projection should not be viewed as representative of the amount of time the Plan can sustain benefit payments. Under the Government Accounting Standards Board standards which include City, County and Member contributions, the Plan is expected to be able to pay all future benefit payments.



Asset and Benefit Payment Projection
Not Reflecting Any Future Contributions
Using Assumptions Required Under 112.664(1)(a), F.S. Plus 2% on Investment Return Assumption

FYE	Market Value of Assets (BOY)	Expected Investment Return	Projected Benefit Payments	Market Value of Assets (EOY)
2021	\$ 58,544,989	\$ 5,289,548	\$ 4,255,076	\$ 59,579,461
2022	59,579,461	5,375,635	4,477,175	60,477,921
2023	60,477,921	5,450,115	4,675,816	61,252,220
2024	61,252,220	5,518,173	4,769,923	62,000,470
2025	62,000,470	5,583,999	4,859,728	62,724,741
2026	62,724,741	5,643,649	5,027,615	63,340,775
2027	63,340,775	5,692,284	5,212,272	63,820,787
2028	63,820,787	5,733,426	5,291,506	64,262,707
2029	64,262,707	5,769,869	5,393,003	64,639,573
2030	64,639,573	5,806,500	5,369,008	65,077,065
2031	65,077,065	5,846,644	5,388,524	65,535,185
2032	65,535,185	5,887,628	5,429,923	65,992,890
2033	65,992,890	5,929,848	5,445,948	66,476,790
2034	66,476,790	5,976,746	5,417,836	67,035,700
2035	67,035,700	6,030,677	5,390,089	67,676,288
2036	67,676,288	6,094,138	5,325,451	68,444,975
2037	68,444,975	6,168,332	5,286,873	69,326,434
2038	69,326,434	6,253,389	5,243,063	70,336,760
2039	70,336,760	6,352,648	5,157,665	71,531,743
2040	71,531,743	6,469,513	5,067,339	72,933,917
2041	72,933,917	6,607,010	4,953,972	74,586,955
2042	74,586,955	6,768,965	4,823,151	76,532,769
2043	76,532,769	6,958,591	4,689,347	78,802,013
2044	78,802,013	7,179,549	4,537,034	81,444,528
2045	81,444,528	7,435,483	4,386,931	84,493,080
2046	84,493,080	7,730,063	4,227,315	87,995,828
2047	87,995,828	8,068,008	4,054,329	92,009,507
2048	92,009,507	8,454,786	3,865,309	96,598,984
2049	96,598,984	8,895,759	3,674,886	101,819,857
2050	101,819,857	9,395,802	3,490,083	107,725,576

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits reflecting no contributions from the City, County or Members: All Future Years

Certain Key Assumptions

Investment return assumption 9.40%

Mortality Table:

Firefighter, Police Officer and Forensic Professional participants: For healthy participants during employment, PUB-2010 Headcount Weighted Safety Employee Female Mortality Table and Safety Below Median Employee Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted Safety Healthy Retiree Female Mortality Table and Safety Below Median Healthy Retiree Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, 80% PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table / 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Mortality Table, separate rates for males and females, without projected mortality improvements. General Employee participants: For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.

Note: As required in Section 112.664(1)(c) of the Florida Statutes, the projection of Plan assets does not include future contributions from the City, County or Members. For this reason, this projection should not be viewed as representative of the amount of time the Plan can sustain benefit payments. Under the Government Accounting Standards Board standards which include City, County and Member contributions, the Plan is expected to be able to pay all future benefit payments.



ACTUARIALLY DETERMINED CONTRIBUTION

	Valuation Assumptions and 112.664(1)(a), F.S Assumptions	112.664(1)(b), F.S. Assumptions	112.664(1)(a), F.S. Assumptions Plus 2% on Investment Return Assumption
A. Valuation Date	October 1, 2020	October 1, 2020	October 1, 2020
B. Actuarial Determined Contribution to Be Paid During Fiscal Year Ending	September 30, 2022	September 30, 2022	September 30, 2022
C. Annual Payroll of Active Employees	\$ 4,236,443	\$ 4,236,443	\$ 4,236,443
D. Total Minimum Funding Requirement			
1. Total Normal Cost	\$ 423,391	\$ 704,766	\$ 274,149
2. Annual Payment to Amortize Unfunded Actuarial Liability	790,747	1,784,273	(202,928)
3. Interest Adjustment	<u>52,731</u>	<u>80,936</u>	<u>1,638</u>
4. Total Minimum Funding Requirement (1. + 2. + 3., not less than 1.)	\$ 1,266,869	\$ 2,569,975	\$ 274,149
E. Expected Payroll of Active Employees for Following Plan Year (\$ / % of pay) (C x 1.000)	\$ 4,236,443 100.00%	\$ 4,236,443 100.00%	\$ 4,236,443 100.00%
F. Expected Contribution Sources (\$ / % of pay)			
1. County and City	\$ 1,055,047 24.90%	\$ 2,358,153 55.66%	\$ 62,327 1.47%
2. Member	<u>211,822 5.00%</u>	<u>211,822 5.00%</u>	<u>211,822 5.00%</u>
3. Total	\$ 1,266,869 29.90%	\$ 2,569,975 60.66%	\$ 274,149 6.47%

Unfunded Actuarial Accrued Liabilities Bases and Amortization Payments

<u>Amortization Base</u>	Current Unfunded <u>Liabilities</u>	<u>Amortization Payment</u>			Remaining Funding <u>Period</u>
		Valuation and 112.664(1)(a), F.S. <u>Assumptions</u>	112.664(1)(b), F.S. <u>Assumptions</u>	112.664(1)(a), F.S. <u>Assumptions Plus 2%</u>	
10/01/2000 Initial	\$ 568,228	\$ 76,727	\$ 71,181	\$ 82,364	10 years
10/01/2002 Assumption Change	(8,682)	(1,040)	(950)	(1,131)	12 years
10/01/2003 Plan Amendment	58,744	6,694	6,077	7,326	13 years
10/01/2004 Plan Amendment	94,333	10,286	9,274	11,325	14 years
10/01/2005 Plan Amendment	205,407	21,532	19,287	23,846	15 years
10/01/2006 Plan Amendment	246,700	24,964	22,216	27,801	16 years
10/01/2007 Plan Amendment	262,200	25,703	22,729	28,777	17 years
10/01/2008 Plan Amendment and Assumption Change	1,216,961	115,918	101,883	130,457	18 years
10/01/2008 Method Change	2,720,093	259,095	227,724	291,590	18 years
10/01/2009 Actuarial Loss / (Gain)	1,197,911	111,174	97,133	125,739	19 years
10/01/2010 Actuarial Loss / (Gain)	(227,351)	(20,607)	(17,900)	(23,418)	20 years
10/01/2010 Plan Amendment	(1,318,120)	(119,474)	(103,782)	(135,772)	20 years
10/01/2011 Actuarial Loss / (Gain)	1,475,894	130,929	113,094	149,470	21 years
10/01/2012 Actuarial Loss / (Gain)	508,890	44,267	38,029	50,758	22 years
10/01/2013 Actuarial Loss / (Gain)	(404,143)	(34,531)	(29,508)	(39,761)	23 years
10/01/2014 Actuarial Loss / (Gain)	(437,809)	(36,799)	(31,285)	(42,543)	24 years
10/01/2014 Assumption Change	4,113	346	294	400	24 years
10/01/2015 Actuarial Loss / (Gain)	(178,546)	(14,783)	(12,506)	(17,157)	25 years
10/01/2016 Actuarial Loss / (Gain)	(868,542)	(70,928)	(59,711)	(82,619)	26 years
10/01/2016 Assumption Change	301,051	24,585	20,697	28,637	26 years
10/01/2017 Actuarial Loss / (Gain)	(442,020)	(35,642)	(29,865)	(41,664)	27 years
10/01/2017 Assumption Change	1,601,663	129,149	108,216	150,968	27 years
10/01/2018 Actuarial Loss / (Gain)	212,370	16,926	14,118	19,852	28 years
10/01/2019 Actuarial Loss / (Gain)	401,033	31,621	26,260	37,207	29 years
10/01/2019 Assumption Change	391,550	30,873	25,639	36,327	29 years
10/01/2020 Actuarial Loss / (Gain)	125,424	9,792	8,098	11,557	30 years
10/01/2020 Assumption Change	691,291	53,970	44,630	63,699	30 years
10/01/2020 Assumption Change - 112.664(1)(b), F.S. Assumptions	16,932,845	N/A	1,093,201	N/A	30 years
10/01/2020 Assumption Change - 112.664(1)(a), F.S. Assumptions Plus 2%	(11,904,678)	N/A	N/A	(1,096,963)	30 years



SECTION B

SUMMARY OF PLAN PROVISIONS

Outline of Principal Provisions of the Retirement Plan (as of October 1, 2020)

A. Effective Date

Plan adopted as a Money Purchase Floor Offset plan on October 1, 1997. Plan amended and restated as a Defined Benefit Plan effective October 1, 2000. Plan most recently amended by Resolution 2017-10 adopted November 13, 2017.

B. Eligibility Requirements

General Employees hired prior to October 1, 2011, Police Officers and Forensic Professionals working 30 or more hours per week are eligible to join the Plan on the first day of the month following completion of six (6) months of service. Electing transferring Firefighters as of October 2, 2008 under the Agreement with the County.

C. Accrual Service

Years of Accrual Service are any Plan Years during which an Employee completes at least 1,000 hours of service, including years of service completed prior to participation in the Plan.

D. Compensation

Wages, salaries and other amounts received (whether or not paid in cash) for personal services actually rendered in the course of employment. Effective October 10, 2011 Compensation shall exclude commissions, bonuses, overtime pay in excess of one hundred fifty (150) hours per Plan year and payments for accrued leave in excess of the dollar amount of an Employee's accrued leave balance on July 1, 2011.

E. Final Average Compensation

Average earnings during the best five (5) consecutive Plan Years out of the last ten (10) Plan Years preceding termination or retirement, but not less than the three (3) highest consecutive compensation periods during employment with the City as of September 30, 2011.

F. Normal Retirement

1. Eligibility:

- (a) Attainment of age 65; or
- (b) Completion of 30 years of service and determined to be disabled under the City's long term disability insurance policy.

Outline of Principal Provisions of the Retirement Plan
(as of October 1, 2020)

2. Benefit:

For Firefighters, Police Officers and Forensic Professionals, 3.00% times Final Average Compensation multiplied by Accrual Service, up to a maximum of 30 years.

For General Employees, 3.00% times Accrual Service earned through September 30, 2011 times Final Average Compensation plus 2.50% times Accrual Service earned after September 30, 2011 times Final Average Compensation, up to a maximum of 30 years of Accrual Service.

G. Early Retirement

1. Eligibility:

- (a) Attainment of age 55 and completion of 15 years of service; or
- (b) Completion of 25 years of service.

2. Benefit:

Benefit accrued to date of early retirement, actuarially reduced for each year early retirement benefit commencement precedes age 55. A participant as of September 30, 2011 who attains age 55 and completes 10 or more years of service but less than 15 years of service may receive the accrued benefit as of September 30, 2011 payable without actuarial reduction plus the accrued benefit earned after September 30, 2011 payable with actuarial reduction from normal retirement date.

H. Late Retirement

1. Eligibility:

Continued employment beyond Normal Retirement Date.

2. Benefit:

Greater of (a) and (b):

- (a) Accrued benefit calculated as for Normal Retirement based upon service and pay at Late Retirement Date.
- (b) Actuarially increased benefit as of Late Retirement Date.

I. Disability Retirement

1. Eligibility:

Completion of 30 years of service and determined to be disabled under the City's long term disability insurance policy.

2. Benefit:

Accrued benefit calculated as for Normal Retirement based upon service and pay at Disability Retirement Date.

Outline of Principal Provisions of the Retirement Plan
(as of October 1, 2020)

J. Death Benefit

Beneficiary entitled to a monthly benefit supported by the present value of the non-forfeitable accrued benefit at the time of the participant's death. If death occurs after actual retirement, the beneficiary receives whatever is payable under the form of benefit option elected.

K. Participant Contributions

Five percent (5%) of compensation.

L. Vested Benefit Upon Termination

100% vested in required participant contributions. Participant contributions made after October 1, 2000 are included in the deferred vested benefit payable at normal or early retirement date.

Upon termination of service prior to normal or early retirement date a participant shall be entitled to a benefit payable at normal or early retirement date calculated as for normal retirement. Based upon pay and service at date of termination multiplied by a percentage from the following table.

<u>Years of Service</u>	<u>Vested Percentage</u>
Less Than 7	0%
7 or More	100%

M. Normal Form of Payment of Retirement Income

Monthly benefit payable for life.

Other Options

Actuarially equivalent joint and survivor at 50%, 75%, 100%; or ten (10) years certain and life.

N. Changes Since Previous Valuation

None.

SECTION C

ACTUARIAL ASSUMPTIONS AND COST METHODS USED FOR FUNDING

Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation
(as of October 1, 2020)

A. Mortality

Firefighter, Police Officer and Forensic Professional participants:

For healthy participants during employment, PUB-2010 Headcount Weighted Safety Employee Female Mortality Table and Safety Below Median Employee Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For healthy participants post employment, PUB-2010 Headcount Weighted Safety Healthy Retiree Female Mortality Table and Safety Below Median Healthy Retiree Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For disabled participants, 80% PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table / 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Mortality Table, separate rates for males and females, without projected mortality improvements.

Sample Ages (2020)	Pre-retirement Future Life Expectancy (Years)		Post-retirement Future Life Expectancy (Years)	
	Men	Women	Men	Women
	55	30.45	34.32	27.59
60	25.51	29.26	23.01	26.39
62	23.58	27.25	21.28	24.55

Sample Ages (2040)	Pre-retirement Future Life Expectancy (Years)		Post-retirement Future Life Expectancy (Years)	
	Men	Women	Men	Women
	55	32.09	35.81	29.48
60	27.08	30.70	24.79	28.13
62	25.11	28.67	23.00	26.25

General Employee participants:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for male, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.



Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation
(as of October 1, 2020)

A. Mortality (cont'd)

For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.

Sample Ages (2020)	Pre-retirement Future Life Expectancy (Years)		Post-retirement Future Life Expectancy (Years)	
	Male	Female	Male	Female
	55	32.58	35.02	28.63
60	27.74	30.00	24.55	27.84
62	25.85	28.02	22.93	26.02

Sample Ages (2040)	Pre-retirement Future Life Expectancy (Years)		Post-retirement Future Life Expectancy (Years)	
	Male	Female	Male	Female
	55	34.22	36.50	30.64
60	29.30	31.44	26.40	29.51
62	27.37	29.43	24.72	27.63

B. Investment Return

7.40%, compounded annually, net of investment expenses - includes assumed inflation of 2.75%.

C. Allowances for Expenses or Contingencies

Prior year's actual administrative expenses are included in normal cost.

D. Salary Increase Factors

Current salary is assumed to increase at a rate based on the table below per year until retirement - includes assumed wage inflation of 3.0%.

<u>Service</u>	General	Forensic Professionals, Firefighters and
	<u>Employees</u>	<u>Police Officers</u>
Less than 5 years	4.50%	4.50%
5 - 14 years	3.25%	3.25%
15 - 20 years	3.00%	3.25%
20+ years	3.00%	3.00%

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation
(as of October 1, 2020)**

E. Employee Withdrawal Rates

Withdrawal rates were used in accordance with the following illustrative example.

<u>Service</u>	<u>General Employees</u>		<u>Forensic Professionals, Firefighters and Police</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
Less than 5 years	20.5%	15.5%	13.5%	4.0%
5 - 9 years	8.0%	12.0%	9.0%	4.0%
10+ years	4.5%	5.0%	4.5%	4.0%

F. Disability Rates

1. Line-of-duty disability rates for General Employees, Forensic Professionals, Firefighters and Police Officers were used in accordance with the following illustrative example.

<u>Age</u>	<u>General Employees</u>	<u>All Other Employees</u>
< 40	0.001%	0.005%
45	0.001%	0.050%
50	0.002%	0.050%
55	0.005%	0.090%
60	0.006%	0.090%
65	0.001%	0.090%

2. Non-duty disability rates for General Employees, Forensic Professionals, Firefighters and Police Officers were used in accordance with the following illustrative example.

<u>Age</u>	<u>General Employees</u>	<u>All Other Employees</u>
20	0.00%	0.02%
25	0.01%	0.02%
30	0.01%	0.04%
35	0.01%	0.04%
40	0.02%	0.04%
45	0.04%	0.04%
50	0.08%	0.07%
55	0.16%	0.07%
60	0.21%	0.07%
65	0.04%	0.07%

The disability assumptions are the disability assumptions used in the July 1, 2020 FRS Actuarial Valuation.

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation
(as of October 1, 2020)**

G. Assumed Retirement Age

Retirement rates were used in accordance with the following tables.

1. For Forensic Professionals, Police Officers and Firefighters:

Age	Years of Service				
	<u>0 - 9</u>	<u>10 - 14</u>	<u>15 - 24</u>	<u>25 - 29</u>	<u>30 or more</u>
Under 55	0.0%	0.0%	0.0%	3.5%	40.0%
55	0.0%	5.0%	25.0%	70.0%	80.0%
56 - 64	0.0%	5.0%	7.5%	7.5%	10.0%
65 and above	100.0%	100.0%	100.0%	100.0%	100.0%

2. For General Employees:

Age	Years of Service		
	<u>0 - 14</u>	<u>15 - 24</u>	<u>25 or more</u>
Under 55	0%	0%	0%
55 - 64	4%	18%	12%
65 and above	100%	100%	100%

H. Marital Assumptions

1. 100% of active members are assumed to be married.
2. Females are assumed to be three (3) years younger than their male spouses.

I. Interest on Future Participant Contributions

3.75%, compounded annually.

J. Asset Valuation Method

The method used for determining the smoothed value of assets phases in the deviation between the expected and actual return on assets at the rate of 20% per year. The smoothed value of assets will be further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the fair market value of Plan assets and whose upper limit is 120% of the fair market value of Plan assets - adjusted for equation of balance October 1, 2010.

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation
(as of October 1, 2020)**

K. Cost Method

Normal Retirement, Termination, Disability, and Death Benefits: Entry Age Normal Cost Method

Under this method the normal cost for each active employee is the amount which is calculated to be a level percentage of pay that would be required annually from his entry age to his assumed retirement age to fund his estimated benefits, assuming the Plan had always been in effect. The normal cost for the Plan is the sum of such amounts for all employees. The actuarial accrued liability as of any valuation date for each active employee or inactive employee who is eligible to receive benefits under the Plan is the excess of the actuarial present value of estimated future benefits over the actuarial present value of current and future normal costs. The unfunded actuarial accrued liability as of any valuation date is the excess of the actuarial accrued liability over the assets of the Plan.

Vested Normal Retirement, Termination, Disability, and Death Benefits: Unit Credit Cost Method

Under this method, the actuarial present value of vested accrued benefits is an amount calculated to be the sum of the present values of each individual's vested accrued or earned benefit under the Plan as of the valuation date. Each individual's calculation is based on pay and service as of the valuation date.

L. Changes Since Previous Valuation

1. Mortality for Disabled participants were:

Firefighter, Police Officer and Forensic Professional participants:

80% PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table / 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Mortality Table, separate rates for males and females, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

General Employee participants:

PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

2. Investment Return was:

7.50%, compounded annually, net of investment expenses - includes assumed inflation of 2.75%.

SECTION D

GLOSSARY

Glossary

<i>Actuarial Accrued Liability</i>	The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.
<i>Actuarial Assumptions</i>	Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members and other items.
<i>Actuarial Cost Method</i>	A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of Future Normal Costs and the Actuarial Accrued Liability.
<i>Actuarial Equivalent</i>	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
<i>Actuarial Present Value</i>	The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.
<i>Actuarial Present Value of Future Benefits</i>	The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits and inactive, non-retired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.
<i>Actuarial Valuation</i>	The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 67.
<i>Actuarial Value of Assets</i>	The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially required contribution.

<i>Amortization Method</i>	A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.
<i>Amortization Payment</i>	That portion of the plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.
<i>Amortization Period</i>	The period used in calculating the Amortization Payment.
<i>Annual Required Contribution</i>	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The annual required contribution consists of the Employer Normal Cost and Amortization Payment plus interest adjustment.
<i>Closed Amortization Period</i>	A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.
<i>Employer Normal Cost</i>	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
<i>Equivalent Single Amortization Period</i>	For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.
<i>Experience Gain/Loss</i>	A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. Losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.
<i>Funded Ratio</i>	The ratio of the Actuarial Value of Assets to the Actuarial Accrued Liability.



GASB	Governmental Accounting Standards Board.
<i>GASB No. 67 and GASB No. 68</i>	These are the governmental accounting standards that set the accounting rules for public retirement plans and the employers that sponsor or contribute to them. Statement No. 67 sets the accounting rules for the plans themselves, while Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement plans.
<i>Normal Cost</i>	The annual cost assigned, under the Actuarial Cost Method, to the current plan year.
<i>Open Amortization Period</i>	An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to covered payroll.
<i>Unfunded Actuarial Accrued Liability</i>	The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.
<i>Valuation Date</i>	The date as of which the Actuarial Present Value of Future Benefits are determined. The benefits expected to be paid in the future are discounted to this date.