

City of Philadelphia Municipal Retirement System

> Actuarial Valuation as of July 1, 2010

Produced by Cheiron

March 2011



Table of Contents

Letter of Transmittal	i
Section I – Board Summary	1
Section II – Assets	17
Section III – Liabilities	26
Section IV – Contributions and Minimum Municipal Obligation	31
Section V – Accounting Statement Information	47
Appendix A – Membership Information	53
Appendix B – Supporting Tables for City's Funding Policy	73
Appendix C – Summary of Actuarial Assumptions and Methods	81
Appendix D – Summary of Plan Provisions	90
Appendix E – Glossary of Terms	112



LETTER OF TRANSMITTAL

March 22, 2011

City of Philadelphia Municipal Retirement System Two Penn Center Plaza – 16th Floor Philadelphia, PA 19102-1721

Dear Board Members:

At your request, we have performed the July 1, 2010 actuarial valuation of the City of Philadelphia Municipal Retirement System.

In preparing our report, we relied without audit, on information (some oral and some written) supplied by the System's staff. This information includes, but is not limited to, plan provisions, employee data, and financial information. The results of this report are only applicable to the System's contribution for Fiscal Year Ending 2012, and rely on future plan experience conforming to the underlying assumptions. To the extent that actual plan experience deviates from the underlying assumptions, the results will vary accordingly.

We hereby certify that, to the best of our knowledge, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board, and that we meet the Qualification Standards, as defined by the American Academy of Actuaries, to render the opinion contained in this report.

Finally, in preparation of this report we have accepted the assumptions and methodologies as adopted by the Board of Pensions and Retirement for the City of Philadelphia Municipal Retirement System.

Sincerely, Cheiron

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Kenneth A. Kent, FSA, FCA, EA, MAAA Principal Consulting Actuary

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SECTION I BOARD SUMMARY

The primary purpose of the actuarial valuation and this report is to disclose the following as of the valuation date:

- The financial condition of the City of Philadelphia Municipal Retirement System,
- Past trends and expected future trends in the Retirement System's financial condition,
- The City's required contribution for Fiscal Year End (FYE) 2012,
- The Retirement Board's Funding Policy recommended City contribution, and
- Information required by the Governmental Accounting Standards Board (GASB).

In this Section, we present a summary of the principal valuation results. This includes the basis upon which the July 1, 2010 valuation was completed and an examination of the current financial condition of the System. In addition, we present a review of the key historical trends followed by the System's projected financial outlook.



SECTION I BOARD SUMMARY

A. Valuation Basis

The June 30, 2010 valuation results are based on the same methods used in the June 30, 2009 valuation as outlined in the report reflecting the amendments made under Act 44 to the Act 205 funding requirements through the addition of Chapter 10. The actuarial assumptions have been updated to reflect the new assumptions approved by the Retirement Board, as presented in the Experience Study Results and Recommendations Report from April 2010. The following outlines the basic assumption changes. For a detailed description of these assumption changes, refer to Appendix C of this report.

- Interest Rate: The interest rate decreased from 8.25% to 8.15%.
- Salary Increase Rate: The salary increase rate changed from 5.00% to an age-based salary table.
- **Payroll and Expenses Growth:** The payroll and expenses growth assumption decreased from **4.00% to 3.50%**.
- **Demographic Actuarial Assumptions:** Demographic assumption changes such as the retirement rates, termination rates, disability rates and mortality rates were updated. A detailed list of these assumption changes is located in Appendix C of this report.

A plan change is reflected in this year's report for the first year which provides for Police participants hired after January 1, 2010 to elect to participate in Plan '10 or Plan 87 with a higher member contribution rate. All participants opted to participate in Plan 87 with the increased employee contributions of 6%.

Below we highlight significant outcomes of this valuation. Table I-1 summarizes these results:

- Unfunded Actuarial Liability (UAL): The UAL is the excess of the System's actuarial liability (AL) over the actuarial value of assets (AVA). The UAL increased from \$4.933 billion as of July 1, 2009 to \$4.936 billion as of July 1, 2010 reflecting the net of asset gains from July 1, 2009 through June 30, 2010 offset by the increase in the AL due to the 10 basis point decrease in the interest rate and the change in the other actuarial assumptions.
- *Funding Ratio*: This is the ratio of the System's AVA to AL. The funding ratio increased from 45.0% as of July 1, 2009 to **47.0% as of July 1, 2010** due to the asset gains.
- Minimum Municipal Obligation (MMO) excluding deferred contribution interest: The MMO is the required minimum amount the City must contribute under Pennsylvania State law before application of amendments specific to the System. The FYE 2011 MMO provided in this report does not reflect possible deferrals of a portion of the MMO up to \$80 million, as permitted per Act 44. However, the interest on the FYE 2010 deferred contribution of \$150 million has been reflected as a separate line item for the MMO exhibit provided in Table I 5. The MMO decreased from \$511.0 million for FYE 2011 to \$507.0 million for FYE 2012 before accounting for the interest due on the deferred contribution.



SECTION I BOARD SUMMARY

- *Minimum Municipal Obligation (MMO) including deferred contribution interest:* After reflecting the interest of the FYE 2010 deferred contribution, the MMO for FYE 2011 is \$536.8 million and for FYE 2012 is \$519.3 million. Two years worth of interest, \$25.7 million, is included in the FYE 2011 MMO amount because the interest was not paid in FYE 2010. This interest *only* reflects the \$150 million FYE 2010 deferred contribution. If additional deferrals are made during FYE 2011, then this interest would increase the FYE 2011 MMO amount. Under Section 1002 (D) and (G) of the Act 205 Code, interest for deferred contributions are to be added to the MMO, and if the interest payment is deferred, then these amounts should be added to the next year's MMO amount.
- *Annual Act 205 Reporting:* under Section 1002 of Act 205, the City is required to provide annual reports to the Pennsylvania Employee Retirement Commission (PERC). Thus, the City will need to recognize gains and losses annually to determine the amortized unfunded, as opposed to biennially.
- *Contribution under the City's Funding Policy:* The beginning-of-year contribution under the City's Funding Policy increased from \$675.1 million for FYE 2011¹ based upon actual FYE 2011 payroll to an estimated **\$690.0 million for FYE 2012**.

Table I-1 Key Results (\$ thousands)										
Valuation Date		7/1/2010		7/1/2009						
Unfunded Actuarial Liability	\$	4,936,172	\$	4,932,932						
Funding Ratio		47.0%		45.0%						
Fiscal Year Ending in Year		2012		2011						
Minimum Municipal Obligation* City's Funding Policy Contribution**	\$ \$	519,331 690,017	\$ \$	536,775 675,065						

* Includes interest on the FYE 2010 deferred contribution of \$150 million. Interest for two years for the FYE 2011(\$25.7 million) and interest for one year for FYE 2012 (\$12.4 million).

^{1**}The City's funding contribution for FYE 2011 was updated based upon the actual payroll of \$1,421.2 million (provided as pay rates in the data) as of July 1, 2010, which is used to estimate the beginning of year FYE 2011 payroll. In the July 1, 2009 actuarial valuation report, the estimated FYE 2011 payroll was \$1,521.8 million based upon July 1, 2009 pay rates and increased based upon the payroll assumption, which was used to estimate the FYE 2011 funding contribution of \$682.3 million.



SECTION I BOARD SUMMARY

B. Current Financial Condition

On the following pages, we summarize the key results of the July 1, 2010 valuation and how they compare to the results from the July 1, 2009 valuation.

1. <u>City Membership:</u>

As shown in Table I-2 below, total membership in the Retirement System decreased by 0.3% from 2009 to 2010.

Ν	Table I-2 Ibership Total		
	July 1, 2010	July 1, 2009	% Change
Actives	27,928	28,632	-2.5%
Terminated Vesteds	1,599	1,336	19.7%
Disabled	4,280	4,288	-0.2%
Retirees	21,064	21,214	-0.7%
Beneficiaries	8,558	8,554	0.0%
DROP	 2,018	 1,638	23.2%
Total City Members	65,447	65,662	-0.3%
Annual Salaries	\$ 1,421,150,868	\$ 1,463,259,769	-2.9%
Average Salary per Active Member	\$ 50,886	\$ 51,106	-0.4%
Annual Retirement Allowances	\$ 615,241,359	\$ 605,992,742	1.5%
Average Retirement Allowance	\$ 18,148	\$ 17,794	2.0%

The active participant population decreased 2.5% during the 2009 - 2010 plan year. About half of them became members of the DROP resulting in a total increase in DROP participants of about 23%. Furthermore, the average salary per active member decreased by 0.4% during the plan year, which is significantly below the assumed salary scale. The combined result of lower active membership and salary growth produced a decrease in the total payroll growth which was lower than expected at -2.9% versus the 3.5% payroll growth assumption.

Annual retirement allowances continued to increase by 1.5% this year.



SECTION I BOARD SUMMARY

2. City Assets and Liabilities:

Table I-3 presents a comparison between the July 1, 2010 and July 1, 2009 System assets, liabilities, UAL, and funding ratios. The Funding Ratio increased from 45.0% as of July 1, 2009 to **47.0%** as of July 1, 2010 due to the higher than expected assets returns, although this was partly offset by the increase in liabilities from the change in assumptions.

The July 1, 2010 market value of assets includes the \$150 million deferred contribution from FYE 2010.

	Table I-3 Assets and Liabilities (\$ thousands)													
		July 1, 2010		July 1, 2009	% Change									
Actuarial Liabilities by Membership:														
Actives	\$	3,019,883	\$	3,164,583	-4.6%									
Terminated Vesteds		147,730		111,107	33.0%									
Disabled		680,163		642,177	5.9%									
Retirees		4,034,768		3,868,581	4.3%									
Beneficiaries		514,053		493,044	4.3%									
DROP		911,939		689,988	32.2%									
Non-Vested Refunds		8,511		5,565	52.9%									
Total Actuarial Liability	\$	9,317,047	\$	8,975,045	3.8%									
Market Value of Assets (net of PAF)*	\$	3,650,729	\$	3,368,427	8.4%									
Actuarial Value of Assets (net of PAF)*		4,380,875		4,042,113	8.4%									
Unfunded Actuarial Liability	\$	4,936,172	\$	4,932,932	0.1%									
Funding Ratio		47.0%		45.0%	2.0%									

* The PAF is available for distribution under title 22-311 of the Philadelphia Code. In general, the PAF provides for enhanced benefit distribution to retirees and beneficiaries through the use of excess earnings. For more details on the PAF, see Section II – E.

The market asset value (net of the Pension Adjustment Fund (PAF)) average return was 13.8% compared to the 8.25% assumption. For the actuarial value of assets, the experience gains and losses are smoothed over future years, which yielded an initial return rate for the preliminary actuarial value of assets of 14.8%. However, the final actuarial of assets is limited by the 20% corridor around the market value of assets, prohibiting the use of an actuarial asset value that is 20% more or less than the market value, which caused the final actuarial value of assets to return to be 12.9% over the prior year.



SECTION I BOARD SUMMARY

3. Components of UAL Change between July 1, 2009 and July 1, 2010:

The Retirement System's unfunded actuarial liability increased by \$3.3 million, from \$4,932.9 million as of July 1, 2009 to \$4,936.2 million as of July 1, 2010. Table I-4 below presents the specific components of this change in the UAL.

The System experienced a \$201.9 million investment gain based upon the actuarial value of assets and a \$8.6 million liability loss. There was also a \$151.2 million liability increase due to the assumption change of decreasing the interest rate from 8.25% to 8.15% along with various demographic assumption changes as shown in Appendix C. Actual FYE 2010 contributions created a \$31.6 million loss when compared to the MMO expected because of lower contributions as a function of lower payroll. This is combined with a \$55.3 million loss due to the one year deferral of gains and losses under the MMO contribution method for a total increase in the UAL for contributions.

	Table I-4 Change in Unfunded Actuarial Liability (\$ millions)	
	Experience	
1.	UAL change due to investment (gain)/loss	\$ (201.9)
2.	UAL change due to overall liability (gain)/loss	8.6
	Contributions	
3.	UAL change to difference in benefit accruals, MMO contributions, and timing	31.6
4.	UAL change due to one-year delay in MMO contributions	55.3
	Assumption Change	
5.	UAL change due to assumption change	151.2
	Total	
6.	Total net overall change: sum 1 through 5	\$ 44.8
7.	Expected change in UAL	 (41.5)
8.	Net increase/(decrease) in UAL: 6 + 7	\$ 3.3

The \$8.6 million liability loss is attributable to the following:

- \$14.7 million demographic gain from decreased active population and less than expected average pay increases.
- \$23.3 million loss due to existing retirees.



SECTION I BOARD SUMMARY

4. <u>Contributions:</u>

The contribution under the City's Funding Policy for FYE 2011 was originally estimated to be \$682.3 million based upon estimated FYE 2011 payroll. Using updated payroll, the FYE 2011 contribution is \$675.1 million. For Fiscal Year 2012, the funding policy contributions decreased by 0.59% of payroll, from 47.50% to 46.91%. In dollar terms, the contributions under the City's Funding Policy increased from \$675.1 million to \$690.0 million, a \$14.9 million increase. The FYE 2012 contributions under the City's Funding Policy will be updated next year when the actual payroll is available. All contributions for the City's Funding Policy are provided as of the beginning of the year.

The Minimum Municipal Obligation for FYE 2012 measured as of the beginning of the year increased by 0.04% of payroll, from 35.27% to 35.31% which includes interest on the deferred contributions. In dollar terms, the required beginning of year contribution decreased from \$536.8 million to \$519.3 million, a \$17.5 million decrease in part because of the lower interest payment due to the doubling up for 2011. These values do not reflect any additional interest due for anticipated additional contribution deferrals by the City in FYE 2011.



SECTION I BOARD SUMMARY

Table I-5Contributions(\$ thousands)Fiscal Year Ending in Year:2012% of Pay2011% of Pa													
	lum d	2012 ing Policy ¹	% of Pay		2011	% of Pay							
Estimated FY Payroll	\$	1,470,891		\$	1,421,151	2							
Normal Cost (with Expenses) Employee Contributions	\$	139,947 (50,251)	9.51% 3.42%	\$	138,709 (49,346)	9.76% 3.47%							
City Normal Cost Amortization Payment		89,696 600,321	6.10% 40.81%		89,363 585,702	6.29% 41.21%							
City's Funding Policy	\$	690,017	46.91%	\$	675,065	47.50%							
Minimum M	unici	ipal Obligati	on ³										
Estimated FY Payroll	\$	1,470,891		\$	1,521,790								
Normal Cost (with Expenses) Employee Contributions	\$	139,947 (50,251)	9.51% 3.42%	\$	149,473 (52,840)	9.82% 3.47%							
City Normal Cost		89,696	6.10%		96,633	6.35%							
Amortization Payment Minimum Municipal Obligation before Adjustment	\$	<u>417,260</u> 506,956	28.37% 34.47%	\$	<u>414,370</u> 511,004	27.23% 33.58%							
Interest due by year end on Contribution Deferred ⁴		12,375			25,771								
Interest due on any 2011 Contribution Deferral		TBD			TBD								
Minimum Municipal Obligation plus													
Interest & Repayment for Deferrals	\$	519,331	35.31%	\$	536,775	35.27%							

In Section IV of this report, we provide more detail on the development of these contributions.

¹ Assuming beginning-of-year payment.

² FYE 2011 payroll for the City's Funding Policy is based upon the July 1, 2010 pay rates and will be finalized when the FYE 2011 payroll is available. All other payroll is estimated based upon the prior year's data used for the actuarial valuation.

³ The MMO does not include Quasi-Agency contributions.

⁴ Interest on the deferred contributions is due on all amounts outstanding by fiscal year end calculated from the beginning of the fiscal year such deferred contributions are still outstanding by year end. This amount will need to be determined and added as part of the MMO.

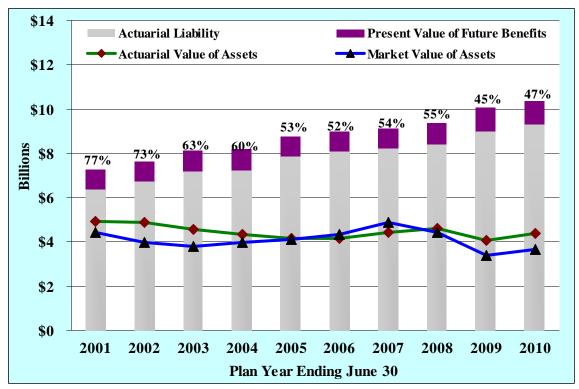


SECTION I BOARD SUMMARY

C. Historical Trends

Although most of the attention given to the valuation reflects the most recently computed unfunded actuarial liability, funding ratio, and contribution amounts, it is important to remember that each valuation is merely a snapshot of the long-term progress of a pension fund. It is equally important to judge a current year's valuation result relative to historical trends, as well as trends expected into the future.

In the chart below, we present the historical trends for the market and actuarial value of assets compared to the actuarial liabilities and present value of future benefits; we also show the progress of the Retirement System's funding ratios (provided above each bar) since 2001.



City of Philadelphia Assets* and Liabilities - 2001 to 2010

* Market value of assets includes the PAF, which is not available for funding purposes.

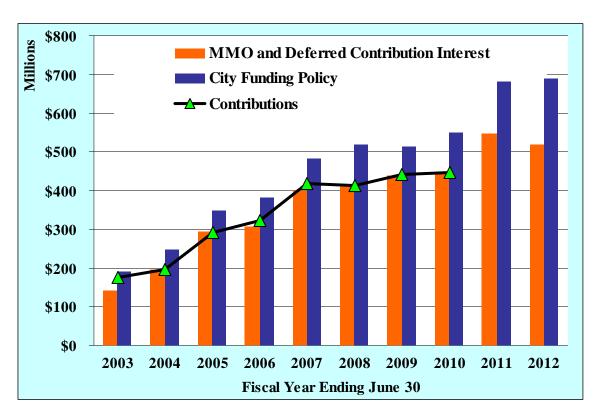
The System's funding ratio has declined significantly since 2001. In 2009, the funding ratio declined by 10% due to the investment losses during the year and the change in the actuarial liability interest rate assumption. In 2010, the funding ratio increased by 2% due to strong investment returns, which was partially offset by the increased actuarial liability due to the assumption changes.

This historic trend emphasizing the funded status has continued to decline, increasing the risk of insolvency if contributions coupled with more stable and favorable returns relative to the long-term assumption are not realized in the near future.



SECTION I BOARD SUMMARY

In this next chart we present historical trends for the Minimum Municipal Obligation (MMO), the contribution under the City's Funding Policy, and the actual contribution made for fiscal years since 2003. Because there is a two-year lag in the determination of the City Funding Policy and MMO requirements, we show the contributions to date and the estimated amounts for fiscal years 2011 and 2012. The FYE 2010 contribution includes the \$150 million deferred contribution.



City of Philadelphia Contributions for Fiscal Years 2003-2012

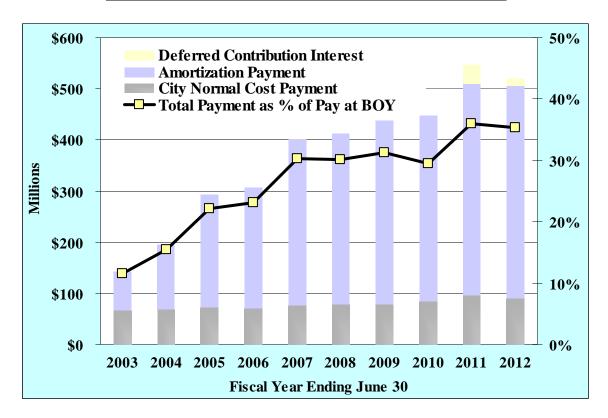
The key trend illustrated in this chart is the rapid escalation in all three measures starting in FYE 2004 due in part to investment losses and the City's funding decision. Since 2004 the City began to make contributions based on the MMO rather than the Funding Policy which has resulted in the Funding Policy amounts increasing more rapidly than the MMO. This is especially evident for FYE 2011 contributions, where the City's Funding Policy amounts for FYE 2011 increased about \$130 million. In addition, the MMO and City's Funding Policy amounts for FYE 2011 increased significantly due to the investment losses, as well as an increase of \$25.8 million for the interest on the deferred contribution. For FYE 2012, the MMO decreased due to the improved funding ratio for the plan, and interest on contribution deferrals are \$12.3 million for one year.



SECTION I BOARD SUMMARY

The chart below shows historical amortization, City normal cost payments, and the deferred contribution interest under the MMO. Also shown is the total beginning-of-year payment as a percentage of payroll based on the values in the legend on the right versus the line graph. For example in 2012 the City cost is expected to be just over 35% of payroll.

MMO Contributions by Source for Fiscal Years 2003-2011



The chart illustrates that the City normal cost payment has remained relatively level over the period shown. The amortization payment to pay off the unfunded actuarial liability has increased from just under \$80 million for FYE 2003 to just over \$417 million for FYE 2012. The total payment as a percentage of payroll is now above 35%, up from about 12% in FYE 2003. The amortization payment increased slightly from the amount due in FYE 2011 to the amount due in FYE 2012, but the total payment decreased because 2011 reflects two years of interest due on the deferred contributions.



SECTION I BOARD SUMMARY

D. Projected Financial Trends

Our analysis of the City of Philadelphia Municipal Retirement System's projected financial trends is an important part of this valuation. In this section, we present our assessment of the implications of the July 1, 2010 valuation results on the future outlook in terms of benefit security (assets over liabilities) and the City's expected cost progression.

In the charts that follow, we project the Retirement System's assets and liabilities, and the City's contributions as a percent of payroll. Unless otherwise noted we assume the MMO contributions are made each year. Our illustrations assume the provisions of Act 205 as amended by Act 44 remain in force during the projection period without consideration of the sunset provisions.

The projections are provided on two different asset return assumption bases:

- 1) Assuming 8.15% returns each and every year, and
- 2) Assuming returns shown in the table below. These are rates of return which vary each year but over the projection period equal on average the assumed 8.15% return. We do this because the City's return will never be level from year to year and the System must anticipate the implications of asset return volatility to the funded status and contribution requirements.

Fiscal Year Beginning	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Return	2.5%	7.5%	11.5%	15.5%	13.5%	10.5%	7.5%	5.5%	0.5%	-4.5%
Fiscal Year Beginning	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Return	-0.5%	3.5%	6.5%	7.5%	11.5%	15.5%	19.5%	15.5%	11.0%	6.7%

In reviewing each of these projections, it is the future trends, not necessarily the actual values that are important to consider in your deliberation of the risks of the System and the potential volatility of future funding ratios and City contribution levels.

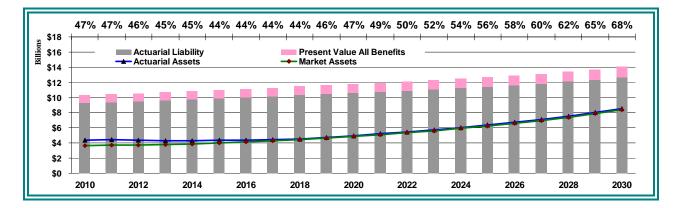


SECTION I BOARD SUMMARY

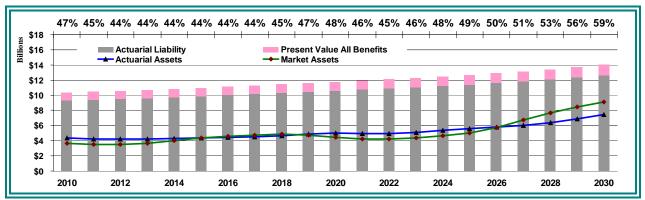
Projection Set 1: Assets and Liabilities

The two charts below show asset measures (green and blue lines) compared to liabilities (grey and pink bars). At the top of each chart is the progression of the System's funding ratio which compares the actuarial value of assets (green lines) to the actuarial liability (grey bars). The projections demonstrate a number of issues. Funding at the MMO level will result in a very slow improvement of funding after the full impact of the 2008/2009 investment losses are fully realized. This is a reflection of the negative cash flow of the System where benefit payments and expenses exceed expected contributions. The alternative return expectations reveal insight from these two charts is how varying investment returns impact the System's funding ratio. In both projections you can see that we applied the 10 year asset smoothing method adopted by the Board. This has significant influence on the smoothing of assets against market value volatility.

<u>Chart 1: Projection of Assets and Liabilities, 8.15% return each year and</u> <u>City makes contributions based on MMO</u>



<u>Chart 2: Projection of Assets and Liabilities, varying returns averaging 8.15% and</u> <u>City makes contributions based on MMO</u>



* Market value of assets includes the PAF, which is not available for funding purposes.

Chart 2 demonstrates that if the fund can achieve a long-term return rate of 8.15%, the funding ratio can be adversely impacted by volatile returns year by year. This component of funding risk is driven by negative cash flows (where benefit payments and expenses are greater than

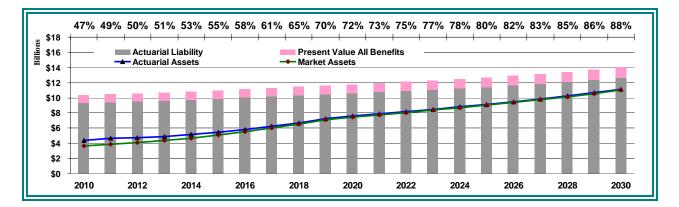
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SECTION I BOARD SUMMARY

contributions). When a mature fund pays out more than it receives in a year when returns are below the assumption, the assets that get paid out are no longer in the fund during subsequent years of market recovery.

It is also important to consider the fact that as long as the System is significantly underfunded, the financial burden on the City will remain relatively high and the only reason both of these projections show gradual improvement is because the contributions will be adjusted to cover any cost volatility.

<u>Chart 3: Projection of Assets and Liabilities, 8.15% return each year,</u> and the City makes contributions based on the City's Funding Policy



In the above scenario where the City's Funding Policy is contributed every year, the System reaches a funded ratio of 93% at the end of the projection period (similar to the projections on the prior page in Chart 1). Also, for the entire period the funding ratio is higher than the ratio achieved each year if the MMO contributions are made, because of the higher assumed contributions.

<u>Chart 4: Projection of Assets and Liabilities, if the City makes contributions based on the</u> <u>Funding Policy, varying returns averaging 8.15%</u>

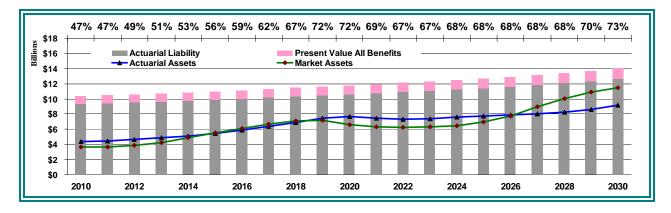


Chart 4 demonstrates that even if the return is achieved on average, because of negative cash flows the funded ratio could be materially less than long-term expectations might imply.



SECTION I BOARD SUMMARY

Projection Set 2: Projected City Contribution Rate

The chart below shows that the City's composite contribution rate under the MMO which increases slowly until 2017 after which the MMO decreases slightly until 2026 when the initial unfunded is paid off and the contribution rate drops to less than 30% of payroll. The unfunded actuarial liability is not paid off during this projection period; thus the projected contributions never revert to the normal cost rate. The decrease in 2019 for the City's Funding Policy rate is due to the payment in full of the initial unfunded liability. This projection assumes all actuarial assumptions are met, including the 8.15% anticipated investment return assumption, and the MMO contributions are made each year.

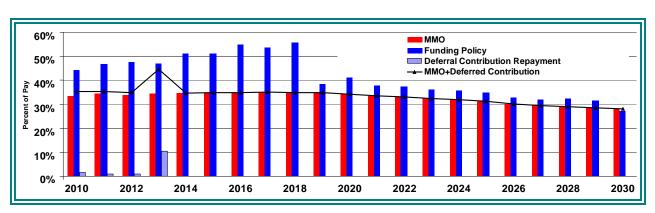
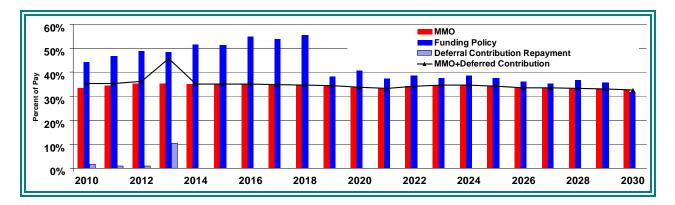


Chart 5: Projection of City Contributions, 8.15% return each year

Chart 6: Projection of City Contributions, varying returns averaging 8.15%



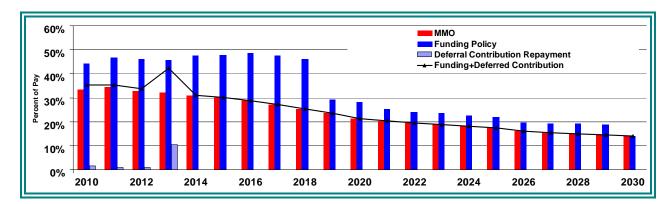
As shown above, varying returns have an impact on the computed City contribution rate, especially in the later projection years. However the volatility is mitigated for two reasons, the 10 year smoothing of assets and 20 year amortization of experience gains and losses. This illustrates that the future contributions should be anticipated to be higher to adjust for the market volatility. Thus, the market volatility can prolong the period of paying down the unfunded when coupled with the impact of negative cash flows in down markets.



SECTION I BOARD SUMMARY

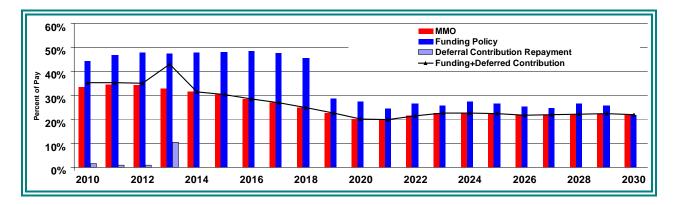
<u>Chart 7: Projection of City Contributions, 8.15% return each year,</u> and the City makes contributions based on the City's Funding Policy

This chart shows the expected future contribution if the City's Funding Policy contributions are made each year. Since larger contributions are assumed to be made each year up front, projected contributions are expected to steadily decline when compared to Chart 5.



<u>Chart 8: Projection of City Contributions, varying returns averaging 8.15% and the City</u> <u>makes contributions based on the City's Funding Policy</u>

Chart 8 is similar to Chart 7 illustrating again the smoothing expectation on a City Funding Policy level when the annual return rates vary from year to year.



We note that when the System becomes 70% funded or greater, the unfunded liability may be amortized on a rolling 10 year basis. We have not shown the implications of this alternative funding method provided for in Act 205 because of the length of the projected period it will take before the System reaches this level of funding.



SECTION II ASSETS

The Retirement System uses and discloses two different asset measurements which are presented in this Section of the report: market value and actuarial value of assets. The market value represents the value of the assets if they were liquidated on the valuation date and, unless explicitly stated otherwise, this value includes the Pension Adjustment Fund (PAF) which is not available for funding purposes. The actuarial value of assets is a value that smoothes annual investment returns over ten years to reduce annual investment volatility and is used in determining contribution levels. By definition, the actuarial value of assets does not include the PAF.

On the following pages we present detailed information on System assets:

- Disclosure of assets at July 1, 2009 and July 1, 2010,
- Statement of cash flows during the year,
- Development of the actuarial value of assets,
- Apportionment of assets between plans for valuation purposes,
- Development of the Pension Adjustment Fund as of July 1, 2010, and
- Disclosure of investment performance for the year.



SECTION II ASSETS

A. Disclosure

The market value of assets represents a "snap-shot" value as of the last day of the fiscal year that provides the principal basis for measuring financial performance from one year to the next. Market values, however, can fluctuate widely with corresponding swings in the value of the investments. Because these fluctuations would cause volatility in employer contributions, an actuarial value of assets is developed. Table II-1 below discloses the market value by asset class as of July 1, 2009 and July 1, 2010. Table II-2 discloses the System's net cash flows for the plan year beginning July 1, 2009 and ending June 30, 2010. Table II-3 discloses Fiscal 2010 City contributions.

	Table	II-1				
Statement of	Assets	at Market Value ¹				
		7/1/2010	7/1/2009			
Assets						
Cash	\$	23,275,349	\$ 33,500,864			
Investments		3,448,631,883	3,375,757,790			
Securities Lending		440,491,098	420,344,216			
Accounts Receivable		4,333,706	5,126,834			
Due from Brokers		866,954,693	732,359,181			
Interest and Dividends Receivable		10,432,515	8,133,823			
Due from Other Governmental Units		4,777,219	 4,756,950			
Total Assets	\$	4,798,896,464	\$ 4,579,979,658			
Liabilities						
Vouchers Payable	\$	36,496	\$ 20,182			
Accounts Payable		3,300,856	3,084,833			
Salaries and Wages Payable		158,279	152,111			
Due on Securities Lending		440,491,098	420,344,216			
Due to Brokers		844,725,570	754,826,242			
Accrued Expenses		1,733,961	1,621,250			
Deferred Revenue		2,070,409	2,644,542			
Monies Held in Escrow		365,483	372,708			
Allowance for Unrealized Loss		3,899,319	20,581,763			
Other Liabilities		512,871	 564,7 <u>35</u>			
Total Liabilities	\$	1,297,294,343	\$ 1,204,212,582			
Net Assets	\$	3,501,602,121	\$ 3,375,767,076			
Deferred Contributions for FYE 2010		150,000,001	 <u> </u>			
Net Assets with Deferred Contributions	\$	3,651,602,122	\$ 3,375,767,076			

Includes the PAF which is not available for funding purposes.



SECTION II ASSETS

Table II-	2		
Changes in Mark	et Values ¹		
Value of Assets – July 1, 2009		\$	3,375,767,07
Additions			
Contributions:			
Employer Contributions ²	\$ 462,556,329		
Employee Contributions	51,569,852		
Total Contributions		\$	514,126,18
Investment Income:			
Gain/(Loss) from Sale of Investments	\$ 401,243,539		
Interest and Dividends	70,537,730		
Total Investment Income	\$ 471,781,269		
Investment Activity Expenses:			
Investment Expenses	\$ (15,988,648)		
Total Investment Activity Expenses	\$ (15,988,648)		
Securities Lending Activities:			
Securities Lending Income	\$ 2,852,256		
Securities Lending Expenses	(4,931,939)		
Net Income from Securities Lending Activities	\$ (2,079,683)		
Miscellaneous Operating Revenues	\$ 712,091		
Net Investment Income		<u>\$</u>	454,425,02
Total Additions		\$	968,551,21
Deductions			
Administrative Expenses	\$ (8,074,131)		
Withdrawal Refunds	(4,520,092)		
Benefit Payments	(672,639,860)		
PAF Distributions	(7,482,081)		
Total Deductions		<u>\$</u>	(692,716,16
Total			
Net Increase (Decrease)		\$	275,835,04
Value of Assets – July 1, 2010		\$	3,651,602,12

B System Cash Flows for the Veer July 1 2000 through July 1 2010

Includes the PAF which is not available for funding purposes.
 Reflects \$150 million deferred contribution for FYE 2010.



SECTION II ASSETS

Table II-3												
City Contributions for the Plan Year Ending June 30, 2010												
Cash Received, October 13, 2010	\$	297,445,999										
Quasi-Agencies												
Cash Received		15,151,272										
Accrued as of June 30, 2010		(40,943)										
Total	\$	312,556,328										
Deferred Contributions for FYE 2010		150,000,001										
Total Contributions Reflected for the Actuarial Valuation	\$	462,556,329										



SECTION II ASSETS

C. Actuarial Value of Assets

To determine on-going funding requirements, most pension funds utilize an actuarial value of assets that differs from the market value of assets. The actuarial value of assets represents an asset value based on averaging or smoothing year-to-year market value returns for purposes of reducing contribution volatility. Beginning with investment losses as of Fiscal Year End 2009, gains and losses are prospectively amortized over a ten-year period.

			Table II-4								
		Development of			ts						
		as	of July 1, 201	.0							
1. Market Va	alue of As		\$	3,651,602,122							
2. Pension Adjustment Fund (PAF) as of July 1, 2010											
Before Ad	ditional		\$	872,624							
3. Market Va	alue of As	ssets Net of Origina	al PAF*		\$	3,650,729,498					
4. Deferred A	sset Gair	ns/(Losses)									
Plan		Investment	Percent	Percent		Amount					
<u>Year</u>	<u>Ga</u>	ains / (Losses)	Recognized	<u>Deferred</u>		Deferred					
2005	\$	99,429,256	100%	0%	\$	-					
2006		380,531,307	80%	20%		76,106,261					
2007		(642,637,544)	60%	40%		(257,055,018)					
2008		(1,235,073,412)	20%	80%		(988,058,730)					
2009		200,524,637	10%	90%		180,472,173					
Total					\$	(988,535,314)					
5. Preliminar	y Actuar	ial Value as of July	1, 2010 (5 = 3 - 4	4)	\$	4,639,264,812					
6. Corridor f	or Actuai	rial Value									
a. 80% of	Market V	alue Net of PAF			\$	2,920,583,599					
b. 120% o	f Market	Value Net of PAF				4,380,875,398					
7. Additional	l PAF Tra	ansfer as of July 1,	2010		\$	-					
8. Actuarial		\$	4,380,875,398								
	-	or 2) the max of 6a a rket Value Net of F				120.0%					
9. Market V	alue of A	ssets Net of Final H	PAF		\$	3,650,729,498					

* Market value of assets net of original PAF before the determination of the final PAF amount. See Section II – E for more details on the development of the total PAF and the additional PAF transfer, if applicable.



SECTION II ASSETS

D. Apportionment of Actuarial Value of Assets

The asset apportionment reflects the actual cash flows for each plan and proportional allocation of investment earnings.

					Table II-5									
Alloca	tion of Asset	s for	r Valuat		-		veen Pla	ns a	as of July	y 1,	2010			
				(9	\$ thousands)								
			67 Plan				1987 Plan							
	Municipal	I	Police		Fire	Μ	unicipal]	Elected		Police		Fire	Total
1. Actuarial Value of Assets														
as of July 1, 2009	\$ 1,752,401	\$	747,491	\$	326,912	\$	560,351	\$	11,532	\$	511,764	\$	131,662	\$4,042,11
2. Transactions During Plan Year														
July 1, 2009 to June 30, 2010														
a. Contributions														
City and Commonwealth ¹	\$ 206,415	\$	124,193	\$	44,578	\$	37,071	\$	458	\$	25,883	\$	8,848	\$ 447,44
Employees	9,821		4,119		1,717		13,973		153		16,728		5,059	51,56
Quasi-Public Agencies	15,110		-		-		-		-		-		-	15,11
b. Benefit Payments	(372,930)	((196,582)		(80,502)		(11,708)		(1,138)		(7,577)		(2,203)	(672,64
c. Withdrawals	(922)		(200)		(83)		(1,572)		-		(1,574)		(170)	(4,52
d. Administrative Expenses	(3,242)		(1,323)		(467)		(2,082)		(5)		(736)		(218)	(8,0)
e. Net Transactions	\$ (145,748)	\$	(69,793)	\$	(34,757)	\$	35,682	\$	(532)	\$	32,724	\$	11,316	\$ (171,10
3. Total Fund Balance Prior to Allocation														
of Investment Income [1. + 2e.]	\$1,606,653	\$	677,698	\$	292,155	\$	596,033	\$	11,000	\$	544,488	\$	142,978	\$3,871,00
4. Investment Income During Plan Year														
July 1, 2009 to June 30, 2010	\$ 318,865	\$	134,500	\$	57,983	\$	118,292	\$	2,183	\$	108,062	\$	28,376	\$ 768,20
5. Preliminary Actuarial Value of Assets														
as of July 1, 2010 [3. +4.]	\$1,925,518	\$	812,198	\$	350,138	\$	714,325	\$	13,183	\$	652,550	\$	171,354	\$4,639,26
6. Final Actuarial Value of Assets														
With Corridor as of July 1, 2010	\$1,818,274	\$	766,961	\$	330,636	\$	674,540	\$	12,449	\$	616,204	\$	161,810	\$4,380,87

¹ Reflects \$150 million worth of deferred contributions for FYE 2010

Note: Numbers may not add due to rounding.



SECTION II ASSETS

E. Development of the Pension Adjustment Fund as of July 1, 2010

The table below provides the funds available for distribution consideration under title §22-311 of the Philadelphia Code. In general, the Pension Adjustment Fund (PAF) provides for enhanced benefit distributions to retirees and beneficiaries through the use of excess earnings. This may include a lump-sum bonus payment, monthly pension increases, ad-hoc cost of living adjustments, or some other increase determined by the Board. The adjusted market value of assets reflects a five-year smoothing of asset gains and losses, as described in the Philadelphia Code.

	Table II-6 Development of the Pension Adjustme as of July 1, 2010	ent Fur	ıd
1.	PAF on July 1, 2009	\$	7,339,818
2.	PAF Distribution		(7,482,081)
3.	Market Value Asset Return Through June 30, 2010 *		13.83%
4.	PAF on July 1, 2010 Before Additional Transfers** =(1) x [1 + (3)] + (2)	\$	872,624
5.	Adjusted Market Value of Assets Through June 30, 2010	\$	4,412,302,592
6.	Adjusted Market Value of Assets Return Through June 30, 2010 ***		0.30%
7.	Return in Excess of Investment Assumption Plus 1.0%, Limited to 5.0% =(6) - [8.25% + 1.00%]		0.00%
8.	Additional Transfer as of July 1, 2010 =50% of (7) x (5)	\$	-
9.	Total PAF as of July 1, 2010 = (4) + (8)	\$	872,624

* Market Value Asset Return including the PAF

^{**} Calculations are based upon the unrounded percents for items (3) and (7)

*** Asset return based upon the Adjusted Market Value of Assets using a 5-year smoothing of the gains/losses as outlined in Title 22-311



SECTION II ASSETS

F. Investment Performance

The market value of assets internal rate of return was 13.8% for the year ending June 30, 2010. This is compared to an assumed return of 8.25%. The return for the year ending June 30, 2009 was -19.9%.

On an actuarial value of assets basis (net of PAF), the return for FYE 2010 was 12.9%. This return produced an overall investment gain of \$200.5 million for the year ending June 30, 2010, even after reflecting the corridor. Last year the actuarial value basis returned -9.3%.

		Table II-7		
		Annual Rates of R	eturn	
			Total Return Standard	Barclays
Year Ending June 30,	Market Value	Actuarial Value *	& Poor's 500 Index	Aggregate Bond Index**
1994	1.6%	7.8%	1.3%	-1.5%
1995	11.7%	7.8%	26.1%	12.8%
1996	15.1%	10.1%	26.0%	4.7%
1997	18.3%	12.2%	34.6%	8.2%
1998	14.3%	13.1%	30.2%	10.5%
1999	10.0%	13.1%	22.7%	3.1%
2000	9.6%	11.1%	7.3%	4.6%
2001	-6.0%	8.3%	-14.8%	11.2%
2002	-5.8%	3.4%	-18.0%	8.6%
2003	1.8%	-2.2%	0.3%	10.4%
2004	16.6%	4.6%	19.1%	0.3%
2005	9.9%	1.8%	6.3%	6.8%
2006	11.3%	6.1%	8.6%	-0.8%
2007	17.0%	10.7%	20.6%	6.1%
2008	-4.5%	10.1%	-13.1%	7.1%
2009	-19.9%	-9.3%	-26.2%	6.0%
2010	13.8%	12.9%	14.4%	9.2%

* Net of PAF

** Formerly Lehman Brothers Aggregate Bond Index



SECTION II ASSETS

G. Asset Gain/(Loss)

There was a \$200.5 million investment gain on market value of assets when compared to the expected as of July 1, 2010. Table II-8 reconciles the 2010 asset loss (expected versus actual) for the market value of assets both net of the PAF and in total. This investment loss is smoothed over a ten-year period to determine the actuarial value of assets (see Table II - 4). Also provided below is a reconciliation of the PAF. There was no PAF transfer amount as of July 1, 2010.

Table II-8									
Calculation of Asset Gain/(Loss)									
		,	Total Market						
		(Net of PAF)		PAF			Value		
1. Market Value of Assets									
as of July 1, 2009	\$	3,368,427,258	\$	7,339,818		\$	3,375,767,076		
2. Transactions During Plan Year									
July 1, 2009 to June 30, 2010									
a. Contributions									
City and Commonwealth	\$	297,445,999	\$	-		\$	297,445,999		
Deferred Contributions		150,000,001					150,000,001		
Employees		51,569,852		-			51,569,852		
Quasi-Public Agencies		15,110,329		-			15,110,329		
b. Benefit Payments		(672,639,860)		(7,482,081)	1		(680,121,941)		
c. Withdrawals		(4,520,092)		-			(4,520,092)		
d. Administrative Expenses		(8,074,131)		-			(8,074,131)		
e. Net Transactions	\$	(171,107,902)	\$	(7,482,081)		\$	(178,589,983)		
3. Expected Investment Income From									
July 1, 2009 to June 30, 2010	\$	252,885,505	\$	1,014,887	2	\$	253,900,392		
4. PAF transfer at July 1, 2010	\$	-	\$	-		\$	-		
5. Expected Market Value of Assets									
as of July 1, 2010 [1. + 2.e. + 3. + 4]	\$	3,450,204,861	\$	872,624		\$	3,451,077,485		
6. Market Value of Assets									
as of July 1, 2010	\$	3,650,729,498	\$	872,624		\$	3,651,602,122		
7. Investment Gain/(Loss) [6 5.]	\$	200,524,637	\$	-		\$	200,524,637		

¹ This is the amount of distributions made out of the Pensions Adjustment Fund during the Plan Year
 ² The PAF is credited with investment income at the market rate of return earned by plan assets



SECTION III LIABILITIES

In this section, we present detailed information on liabilities for the City of Philadelphia Municipal Retirement System, including:

- Disclosure of liabilities at July 1, 2009 and July 1, 2010,
- Statement of changes in these liabilities and the unfunded liabilities during the year,
- Development of the normal cost rates by plan, and
- The reconciliation of the changes in the unfunded liability by plan as well as the expected unfunded liability as of July 1, 2011.

Disclosure

Two types of liabilities are calculated and presented in this report. Each type is distinguished by the purpose for which the figures are ultimately used.

- **Present Value of all Future Benefits:** Used for measuring all future obligations, this represents the amount of money needed today to fully pay off all benefits both earned as of the valuation date and those to be earned in the future by current Plan participants, under the current Plan provisions and assumptions.
- Actuarial Liability: Used for determining employer contributions and GASB accounting disclosures. This liability is calculated by subtracting the present value of future member contributions and future employer normal cost contributions as determined under the Entry Age Normal Cost (EAN) actuarial funding method from the present value of all future benefits.



SECTION III LIABILITIES

Table III-1 shows the present value of future benefits, actuarial liability, and unfunded actuarial liability as of July 1, 2010, and July 1, 2009, for the Retirement System.

	Table III-1 Disclosure of Liabilities										
(\$ thous		<i>,</i>		July 1 2000							
Present Value of Future Benefits		July 1, 2010	و	July 1, 2009							
Actives	\$	4,047,763	\$	4,254,849							
Terminated Vesteds	φ	147,730	φ	4,254,849							
Disabled		680,163		642,177							
Retirees		4,034,768		3,868,581							
Beneficiaries		4,034,708 514,053		493,044							
DROP		911,939		689,988							
Non-Vested Refunds		8,511		089,988 5,565							
Total City PVFB	<u> </u>	· · · · ·	\$								
Market Value of Assets	Э	10,344,927	Э	10,065,311							
		(3,651,602)		(3,375,767)							
Present Value Future Member Contrib.	¢	(363,820)		(362,000)							
City's Unfunded Future Obligation	\$	6,329,504	\$	6,327,544							
Actuarial Liability	.		÷								
Actives	\$	3,019,883	\$	3,164,583							
Terminated Vesteds		147,730		111,107							
Disabled		680,163		642,177							
Retirees		4,034,768		3,868,581							
Beneficiaries		514,053		493,044							
DROP		911,939		689,988							
Non-Vested Refunds		<u> 8,511</u>		5,565							
Total City AL	\$	9,317,047	\$	8,975,045							
Actuarial Value of Assets		(4,380,875)		(4,042,113)							
Unfunded Actuarial Liability	\$	4,936,172	\$	4,932,932							



SECTION III LIABILITIES

Table III-2 shows the present value of future benefits, actuarial liability, and unfunded actuarial liability for each Plan in the Retirement System.

Table III-2													
	Liabilities Detail as of July 1, 2010												
(\$ thousands)													
1967 Plan 1987 Plan													
	Municipal	Police		Fire	Ν	funicipal]	Elected		Police		Fire	Total
Present Value of Future Benefits													
Actives	\$ 1,183,582	\$ 401,033	\$	129,711	\$	976,702	\$	10,536	\$	1,047,361	\$	298,839	\$ 4,047,763
Terminated Vesteds	86,690	1,448		1,286		42,276		-		12,993		3,037	147,730
Disabled	242,144	246,290		63,091		29,093		-		83,808		15,737	680,163
Retirees	2,161,307	1,250,421		524,208		71,737		5,496		14,931		6,669	4,034,768
Beneficiaries	291,322	144,726		56,559		9,727		467		8,043		3,208	514,053
DROP	521,676	175,701		153,012		33,686		7,478		12,546		7,840	911,939
Non-Vested Refunds	2,004	162		51		4,783		9		1,211		291	8,511
Total PVFB	\$ 4,488,725	\$ 2,219,781	\$	927,918	\$	1,168,002	\$	23,986	\$	1,180,894	\$	335,622	\$10,344,927
Actuarial Liability													
Actives	\$ 1,068,375	\$ 351,778	\$	114,709	\$	689,376	\$	9,331	\$	616,388	\$	169,926	\$ 3,019,883
Terminated Vesteds	86,690	1,448		1,286		42,276		-		12,993		3,037	147,730
Disabled	242,144	246,290		63,091		29,093		-		83,808		15,737	680,163
Retirees	2,161,307	1,250,421		524,208		71,737		5,496		14,931		6,669	4,034,768
Beneficiaries	291,322	144,726		56,559		9,727		467		8,043		3,208	514,053
DROP	521,676	175,701		153,012		33,686		7,478		12,546		7,840	911,939
Non-Vested Refunds	2,004	162		51		4,783		9		1,211		291	8,511
Total AL	\$ 4,373,518	\$ 2,170,526	\$	912,916	\$	880,675	\$	22,781	\$	749,921	\$	206,709	\$ 9,317,047
Actuarial Value of Assets	(1,818,274)	(766,961)		(330,636)		(674,540)		(12,449)		(616,204)		(161,810)	(4,380,875)
Unfunded Actuarial Liability	\$ 2,555,244	\$ 1,403,565	\$	· · · ·	\$	206,135	\$	10,332		133,716	\$	44,899	\$ 4,936,172
Funding %	41.6%	35.3%		36.2%		76.6%		54.6%		82.2%		78.3%	47.0%

Note: Numbers may not add due to rounding.



SECTION III LIABILITIES

Table III-3 shows the derivation of the City normal cost as a percent of pay for each Plan in the System.

	Table III-3															
		Deriv	vati	ion of the	e N	ormal C	ost	as of Jul	y 1,	, 2010						
(\$ thousands)																
			1	967 Plan						1987	Pla	n				
	Μ	lunicipal		Police		Fire	N	Iunicipal	I	Elected		Police		Fire		Total
Retirement	\$	13,289	\$	7,081	\$	2,306	\$	21,850	\$	112	\$	30,739	\$	9,711	\$	85,087
Death		642		303		100		1,630		12		1,487		464		4,637
Disability		1,929		927		279		4,865		19		4,938		1,363		14,320
Termination		5,017		941		286		12,908		107		2,847		743		22,849
Administrative Expenses		3,273		1,347		472	_	2,215		5		784		225	_	8,320
Total Normal Cost	\$	24,149	\$	10,598	\$	3,442	\$	43,468	\$	255	\$	40,795	\$	12,507	\$	135,214
Expected Employee Contributions	\$	8,645	\$	3,720	\$	1,197	\$	13,037	\$	157	\$	16,897	\$	4,898	\$	48,551
City Normal Cost	\$	15,504	\$	6,878	\$	2,245	\$	30,431	\$	98	\$	23,898	\$	7,609	\$	86,663
Current Annual Payroll	\$	230,540	\$	61,994	\$	19,953	\$	672,000	\$	2,150	\$	336,551	\$	97,962	\$ 3	1,421,151
City Normal Cost as % of Pay, Beginning of Year Payment		6.725%		11.096%		11.249%		4.528%		4.558%		7.101%		7.767%		6.098%
City Normal Cost as % of Pay, End of Year Payment		7.273%		12.000%		12.166%		4.897%		4.930%		7.679%		8.400%		6.595%

Note: Numbers may not add due to rounding.



SECTION III LIABILITIES

Table III-4 shows changes in the unfunded actuarial liability from July 1, 2009 to July 1, 2010 due to actuarial experience and the interest rate assumption change; there were no plan changes. It also shows the development of the expected unfunded actuarial liability from July 1, 2010 to July 1, 2011 based upon the City's Funding Policy, which is used to develop the end of year amortization amounts for the City's Funding Policy in Table IV – 10 and in Appendix D. The actuarial experience of each of the plans is calculated based on the plans' actual asset and liability values compared to the expected values.

Table III-4															
Expect	Expected Unfunded Actuarial Liability for the Plan Year Ending June 30, 2011														
(\$ thousands)															
1967 Plan 1987 Plan															
	I	Aunicipal		Police		Fire	Ι	Aunicipal		Elected		Police	Fire		Total
1. Expected Unfunded Actuarial Liability															
(UAL) as of July 1, 2010 Based on															
July 1, 2009 Valuation*	\$	2,460,218	\$	1,305,285	\$	527,869	\$	252,633	\$	9,648	\$	222,808	\$ 68,371	\$	4,846,832
2. Changes in UAL due to															
a. Actuarial Experience	\$	(6,893)	\$	11,006	\$	10,439	\$	(29,592)	\$	143	\$	(36,147)	\$ (10,830)	\$	(61,873)
b. Assumption Changes		101,919		87,273		43,972		(16,906)		542		(52,944)	(12,643)		151,212
c. Active Plan Changes		-		-		-		-		-		-	-		-
d. Inactive Plan Changes				-		<u> </u>		<u> </u>	_			-	 -		-
e. Subtotal	\$	95,026	\$	98,280	\$	54,411	\$	(46,498)	\$	685	\$	(89,092)	\$ (23,472)	\$	89,339
3. Actual UAL as of July 1, 2010 [1. + 2e.]	\$	2,555,245	\$	1,403,564	\$	582,280	\$	206,135	\$	10,332	\$	133,717	\$ 44,899	\$	4,936,172
4. Expected Changes in UAL from July 1,															
2010 to July 1, 2011 due to															
a. Interest on Changes in UAL	\$	7,745	\$	8,010	\$	4,434	\$	(3,790)	\$	56	\$	(7,261)	\$ (1,913)	\$	7,281
b. FY 2011 Amortization Contribution		(124,084)	_	(78,413)		(26,377)		(5,238)	_	(162)		(3,455)	 (1,078)		(238,808)
c. Subtotal	\$	(116,339)	\$	(70,404)	\$	(21,942)	\$	(9,028)	\$	(106)	\$	(10,716)	\$ (2,991)	\$	(231,527)
5. Expected UAL as of July 1, 2011 [3. + 4c.]	\$	2,438,906	\$	1,333,160	\$	560,338	\$	197,107	\$	10,226	\$	123,001	\$ 41,908	\$	4,704,645

* Expected UAL is based upon the City's funding policy Note: Numbers may not add due to rounding.



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level (if any) of contribution is needed based upon the funding methods either required by law or adopted by the plan sponsor. For an actuarial funding method to be effective it should result in a pattern of contributions that is both stable, predictable and systematically fund the plan obligations.

The actuarial funding method used to determine the normal cost and the unfunded actuarial liability is the Entry Age Normal (EAN) cost method. The normal cost is based upon the normal cost rate determined by taking the value, as of entry age into the plan, of each member's projected future benefits. This value is then divided by the value, also at entry age, of each member's expected future salary producing a normal cost rate that should remain relatively constant over a participant's career. The normal cost rate is multiplied by current salary to determine each member's normal cost. Finally, the normal cost is reduced by the member contribution to produce the employer normal cost. The unfunded actuarial liability is the difference between the EAN actuarial liability and the actuarial value of assets.

Within this section of the report, two contribution amounts are determined based upon two different sets of rules for determining the way the unfunded actuarial liability is funded.

The first method is defined in accordance with Act 205 and defines the Minimum Municipal Obligation (MMO), which is the City's minimum required contribution under Pennsylvania state law. The second method is in accordance with the City's Funding Policy which predates the Act 205 rules and calls for contributions that are greater than the MMO until the initial unfunded liability determined in 1984 is fully funded. Under both funding methods there are two components: the normal cost and the amortized unfunded actuarial liability. The amortized unfunded actuarial liability is the amount of the unfunded actuarial liability that is paid each year based upon the amortization periods. The amortization periods are different under the MMO and the City's Funding Policy, which is outlined in more detail in Appendix B, Section B.

Due to the contributions deferral in FYE 2010, there is an additional part to the MMO to include interest on the deferred contribution. This interest payment can be deferred as well and become part of the following year's MMO as we understand the provisions of Section 10 of Act 205. For FYE 2011, this report reflects two years of interest for the \$150 million deferral for FYE 2010. If additional contributions are deferred in FYE 2011, then additional interest will need to be reflected for this year.

As of July 1, 2010, gains and losses are recognized annually to determine the amortization base used to calculate the MMO, as opposed to biennially. This change is implemented due to section 1002 of Act 205.

In addition, the MMO excluding the Pension Obligation Bond (POB) is also provided in this section, as required for reporting purposes under ACT 205.



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

In Table IV-1 we provide the employee contribution rates as a percent of pay effective for the plan year starting July 1, 2011. Table IV-2 shows the quasi-agency funding rates as a percent of payroll.

Table IV-1 Employee Contribution Rates for the Plan Year Beginning July 1, 2011											
	Municipal ¹	Elected	Police	Fire							
Plan 67	3.75%	N/A	6.00%	6.00%							
Plan 87 ²	1.94%	7.32%	5.02%	5.00%							

¹ For Municipal 1967 plan, employee contributions are 6% for pay in excess of the social security wage base
 ² Police '87 contribution rate reflects the new rate of 6% for new hires after January 1, 2010 who opted to stay in

Plan '87

This table isolates the City Funding Policy requirements for the Quasi Agencies that participate in the System based upon rates used to determine the 1967 Municipal cost.

Table IV-2 Quasi Agency Funding Rate as a Percent of Payroll									
Valuation Date	July 1, 2010	July 1, 2009							
Fiscal Year Ending in Year	2012	2011							
1. Normal Cost Rate	7.273%	7.297%							
2. Amortization Rate under the City's Funding Policy	146.440%	125.124%							
3. Total Year-End Rate [1. + 2.]	153.714%	132.421%							
4. Adjusted for Quarterly Payments [3. x 0.96877]	148.913%	128.285%							



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Table IV-3 shows the development of the FYE 2012 Minimum Municipal Obligation (MMO) for each division. Table IV-4 on the following page shows a schedule of amortization payments toward the MMO.

Table IV-3 Development of the Minimum Municipal Obligation for Fiscal Year 2012 (\$ thousands)												
Non-Uniformed Police Fire Total												
Estimated FY 2011-2012 Payroll	\$ 936,354	\$ 412,494	\$ 122,043	\$ 1,470,891								
Normal Cost %	6.895%	12.361%	12.935%	8.929%								
Normal Cost	\$ 64,563	\$ 50,987	\$ 15,786	\$ 131,336								
Amortization Payment	234,306	129,513	53,441	417,260								
Administrative Expenses	5,685	2,205	721	8,611								
Subtotal	\$ 304,554	\$ 182,705	\$ 69,948	\$ 557,207								
Expected Employee Contributions	(22,604)	(21,339)	(6,310)	(50,252)								
Minimum Municipal Obligation	\$ 281,950	\$ 161,366	\$ 63,638	\$ 506,955								
Additional MMO for												
Deferred Contribuion Interest	6,083	4,804	1,487	12,375								
Total Minimum Municipal Obligation	\$ 288,034	\$ 166,171	\$ 65,126	\$ 519,330								

Note: Numbers may not add due to rounding.



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

	Table IV-4 Unfunded Liability Payments toward the MMO for Fiscal Year 2012 (\$ thousands)																			
Type of Base		M 7/1/2010 Balance	lunicipal Years Left	ŀ	FY 2012 Payment		7/1/2010 Balance	Police Years Left		FY 2012 Payment	-	7/1/2010 Balance	Fire Years Left		'Y 2012 ayment		7/1/2010 Balance	Total Years Left		TY 2012 Payment
Unfunded Actuarial Liability as of July 1, 2009 Gain/Loss	\$	2,746,382	29	\$	230,752	\$	1,545,896	29	\$	129,887	\$	599,064	29	\$	50,333	\$	4,891,342	29	\$	410,972
as of July 1, 2010 Assumption Change	\$	(60,225)	20	\$	(5,772)	\$	(42,944)	20	\$	(4,116)	\$	(3,214)	20	\$	(308)	\$	(106,383)	20	\$	(10,196)
as of July 1, 2010 Total	<u>\$</u> \$	<u>85,555</u> 2,771,712	15	<u>\$</u> \$	<u>9,327</u> 234,306	<u>\$</u>	<u>34,329</u> 1,537,280	15	<u>\$</u>	<u>3,742</u> 129,513	<u>\$</u> \$	<u>31,329</u> 627,179	15	<u>\$</u>	<u>3,415</u> 53,440	<u>\$</u>	<u>151,213</u> 4,936,171	15	<u>\$</u> \$	<u>16,484</u> 417,260



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Table IV-5 (a) - (d) provides more detail by plan on the expected and actual unfunded actuarial liability and the new amortization bases established as of July 1, 2010 for the MMO.

Table IV-5a Development of the Fiscal Year 2012 Amortization Payment under MMO Municipal and Elect												
(\$ thousands)												
	Out	7/1/2010 standing Balance	Remaining Years		FY 2012 Payment							
1. Expected Unfunded Actuarial												
Liability (UAL) as of July 1, 2010												
Based on July 1, 2009 Valuation	\$	2,746,382	29	\$	230,752							
2. Changes in UAL due to												
a. Actuarial Experience	\$	(60,225)	20	\$	(5,772)							
b. Assumption Changes		85,555	15		9,327							
c. Active Plan Changes		-	0		-							
d. Inactive Plan Changes		-	0		-							
e. Subtotal	\$	25,330		\$	3,555							
2 Total $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$ $\begin{bmatrix} 1 \\ 0 \end{bmatrix}$	¢	0 771 710		¢	024 207							
3. Total [1c. + 2e.]	\$	2,771,712		\$	234,307							



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Table IV-5b Development of the Fiscal Year 2012 Amortization Payment under MMO Police											
		ousands) 7/1/2010	Remaining		FY 2012						
	Outsta	anding Balance	Years		Payment						
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation 	\$	1,545,896	29	\$	129,887						
 Changes in UAL due to a. Actuarial Experience b. Assumption Changes 	\$	(42,944) 34,329	20 15	\$	(4,116) 3,742						
c. Active Plan Changes d. Inactive Plan Changes e. Subtotal	\$	- - (8,616)	0 0	\$	- - (374)						
3. Total [1c. + 2e.]	\$	1,537,280		\$	129,513						

Table IV-5c Development of the Fiscal Year 2012 Amortization Payment under MMO Fire											
	(\$ t	housands)									
	Outs	7/1/2010 tanding Balance	Remaining Years		FY 2012 Payment						
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation 	\$	599,064	29	\$	50,333						
 Changes in UAL due to a. Actuarial Experience b. Assumption Changes 	\$	(3,214) 31,329	20 15	\$	(308) 3,415						
c. Active Plan Changes d. Inactive Plan Changes e. Subtotal	\$		0 0	\$							
3. Total [1c. + 2e.]	\$	627,179		\$	53,440						



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Table IV-5d Development of the Fiscal Year 2012 Amortization Payment under MMO Total											
		thousands) 7/1/2010 standing Balance	Remaining Years		FY 2012 Payment						
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation 	\$	4,891,342	29	\$	410,972						
2. Changes in UAL due toa. Actuarial Experienceb. Assumption Changes	\$	(106,383) 151,213	20 15	\$	(10,196) 16,484						
c. Active Plan Changes d. Inactive Plan Changes e. Subtotal	\$	- - 44,829	0 0	\$							
3. Total [1c. + 2e.]	\$	4,936,171		\$	417,260						



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

The tables on the following pages support Exhibit I of the Act 205 filings.

- Table IV-6 is a summary of assets, liabilities, and amortization contributions under the assumption that the Pension Obligation Bond (POB) was never contributed.
- Table IV-7 is a schedule of modified amortization payments under the assumption that the proceeds from the POB were never contributed.
- Table IV-8a, IV-8b, and IV-8c are debt service schedules for the POB, allocated for the Municipal, Police, and Fire divisions.
- Tables IV-9a and IV-9b are statements of receipts and disbursements for each division excluding and including bond issue assets, respectively, excluding the PAF.

Table IV-6 Summary of Modified Actuarial Data											
(\$ thousands) Municipal Police Fire Total											
Actuarial Liability	\$	5,276,975	\$	2,920,446	\$	1,119,625	\$	9,317,047			
Market Value of Assets (less POB)	\$	1,787,845	\$	1,049,910	\$	301,685	\$	3,139,440			
Actuarial Value of Assets (less POB)	\$	2,024,205	\$	1,179,015	\$	347,454	\$	3,550,674			
Unfunded Actuarial Liability (AL - AVA)	\$	3,252,770	\$	1,741,431	\$	772,171	\$	5,766,372			
Amortization Contributions											
Total Amortization Amount Remaining Years	\$	274,839 28	\$	146,755 29	\$	65,682 28	\$	487,276 28			



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

	Table IV-7 Modified Unfunded Liability Payments toward the MMO for Fiscal Year 2012 (\$ thousands)												
Type of Base	7/1/2010 Balance	Municipal Remaining Years	FY 2012 Payment	7/1/2010 Balance	Police Remaining Years	FY 2012 Payment	7/1/2010 Balance	Fire Remaining Years	FY 2012 Payment	7/1/2010 Balance	Total Remaining Years		
Unfunded Actuarial Liability as of July 1, 2009	\$ 3,220,555	29	\$ 270,592	\$ 1,744,415	29	\$ 146,566	\$ 739,011	29	\$ 62,092	\$ 5,703,982	29		
July 1, 2010 Charges Experience (Gain)/Loss Assumption Change Subtotal	\$ (53,340) <u>85,555</u> \$ 32,215	20 15	\$ (5,080) 9,327 \$ 4,247	\$ (37,313) <u>34,329</u> \$ (2,984)	15	\$ (3,553) <u>3,742</u> \$ 189	\$ 1,831 <u>31,329</u> \$ 33,160	20 15	\$ 174 3,415 \$ 3,590	\$ (88,821) <u>151,212</u> \$ 62,391	20 15		
Total	\$ 3,252,770		\$ 274,839	\$ 1,741,431		\$ 146,755	\$ 772,171		\$ 65,682	\$ 5,766,372			



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

		Table IV	-8a	
	TOTAL DEBT	SERVICE REQU	IREMENTS: MUNI	CIPAL
	Required	Required	Premium or	Principal Balance
Plan Year	Principal Payment	Interest Payment	Discount Amortized	at Valuation Date
1999	\$ -	\$ 7,041,525.30	\$ -	\$ 727,185,593.15
2000	9,917,857.50	29,825,175.27	-	717,267,735.65
2001	4,567,730.63	29,324,323.46	-	712,700,005.02
2002	-	29,087,715.02	-	712,700,005.02
2003	6,422,403.75	29,087,715.02	-	706,277,601.27
2004	8,884,981.88	28,728,336.25	-	697,392,619.39
2005	15,161,038.13	28,250,550.75	-	682,231,581.26
2006	18,743,737.50	27,403,048.72	-	663,487,843.76
2007	22,526,257.50	26,345,901.92	-	640,961,586.26
2008	26,486,083.13	25,064,157.87	-	614,475,503.13
2009	30,870,879.38	23,543,856.70	-	583,604,623.75
2010	40,000,711.88	21,756,432.78	-	543,603,911.87
2011	45,151,018.13	19,420,391.21	-	498,452,893.74
2012	22,154,721.72	45,234,066.39	-	476,298,172.02
2013	21,786,233.75	48,416,929.37	-	454,511,938.27
2014	20,545,516.84	50,378,126.28	-	433,966,421.43
2015	20,088,811.07	53,652,021.42	-	413,877,610.36
2016	19,364,886.72	56,464,212.02	-	394,512,723.64
2017	18,085,471.62	57,743,627.12	-	376,427,252.02
2018	16,915,332.51	58,913,766.23	-	359,511,919.51
2019	15,787,131.76	60,041,966.99	-	343,724,787.75
2020	14,758,165.41	61,070,933.33	-	328,966,622.34
2021	13,823,708.03	62,005,390.71	-	315,142,914.31
2022	12,919,375.38	62,909,723.36	-	302,223,538.93
2023	12,071,748.11	63,757,350.63	-	290,151,790.82
2024	11,250,110.80	64,578,987.94	-	278,901,680.02
2025	10,560,195.36	65,268,903.38	-	268,341,484.66
2026	17,271,090.90	58,558,007.84	-	251,070,393.76
2027	60,297,984.38	16,196,263.75	-	190,772,409.38
2028	64,125,534.38	12,367,341.75	-	126,646,875.00
2029	126,646,875.00	4,147,685.16	-	-



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

		Table IV	-8b	
	TOTAL DEF	ST SERVICE REQ	UIREMENTS: POL	ICE
	Required	Required	Premium or	Principal Balance
Plan Year	Principal Payment	Interest Payment	Discount Amortized	at Valuation Date
1999	\$ -	\$ 3,848,228.76	\$ -	\$ 397,410,560.15
2000	5,420,158.68	16,299,607.13	-	391,990,401.47
2001	2,496,287.61	16,025,889.30	-	389,494,113.86
2002	-	15,896,581.60	-	389,494,113.86
2003	3,509,875.74	15,896,581.60	-	385,984,238.12
2004	4,855,686.99	15,705,644.36	-	381,128,551.13
2005	8,285,583.09	15,439,067.14	-	372,842,968.04
2006	10,243,546.20	14,975,903.05	-	362,599,421.84
2007	12,310,712.28	14,398,167.04	-	350,288,709.56
2008	14,474,776.77	13,697,687.51	-	335,813,932.79
2009	16,871,089.83	12,866,835.33	-	318,942,842.96
2010	21,860,588.91	11,889,999.22	-	297,082,254.05
2011	24,675,257.01	10,613,340.83	-	272,406,997.04
2012	12,107,666.12	24,720,643.30	-	260,299,330.92
2013	11,906,285.60	26,460,093.82	-	248,393,045.32
2014	11,228,227.61	27,531,897.73	-	237,164,817.71
2015	10,978,635.63	29,321,097.79	-	226,186,182.08
2016	10,583,007.35	30,857,974.00	-	215,603,174.73
2017	9,883,800.61	31,557,180.75	-	205,719,374.12
2018	9,244,313.74	32,196,667.62	-	196,475,060.38
2019	8,627,746.39	32,813,234.97	-	187,847,313.99
2020	8,065,411.14	33,375,570.22	-	179,781,902.85
2021	7,554,725.51	33,886,255.84	-	172,227,177.34
2022	7,060,503.20	34,380,478.16	-	165,166,674.14
2023	6,597,270.66	34,843,710.70	-	158,569,403.48
2024	6,148,241.77	35,292,739.59	-	152,421,161.71
2025	5,771,199.53	35,669,781.82	-	146,649,962.18
2026	9,438,737.48	32,002,243.88	-	137,211,224.70
2027	32,953,149.75	8,851,339.07	-	104,258,074.95
2028	35,044,924.95	6,758,814.06	-	69,213,150.00
2029	69,213,150.00	2,266,730.66		



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

		Table IV	-8c	
	TOTAL DI	EBT SERVICE RE	QUIREMENTS: FI	RE
	Required	Required	Premium or	Principal Balance
Plan Year	Principal Payment	Interest Payment	Discount Amortized	at Valuation Date
1999	\$ -	\$ 1,620,185.70	\$ -	\$ 167,318,251.01
2000	2,282,001.44	6,862,479.41	-	165,036,249.57
2001	1,050,989.88	6,747,238.34	-	163,985,259.69
2002	-	6,692,797.06	-	163,985,259.69
2003	1,477,731.92	6,692,797.06	-	162,507,527.77
2004	2,044,346.92	6,612,408.45	-	160,463,180.85
2005	3,488,405.72	6,500,173.80	-	156,974,775.13
2006	4,312,749.60	6,305,171.92	-	152,662,025.53
2007	5,183,070.24	6,061,932.84	-	147,478,955.29
2008	6,094,187.16	5,767,016.15	-	141,384,768.13
2009	7,103,085.64	5,417,209.80	-	134,281,682.49
2010	9,203,770.28	5,005,941.15	-	125,077,912.21
2011	10,388,805.08	4,468,440.96	-	114,689,107.13
2012	5,097,583.51	10,407,913.67	-	109,591,523.62
2013	5,012,798.05	11,140,259.13	-	104,578,725.57
2014	4,727,321.30	11,591,511.24	-	99,851,404.27
2015	4,622,237.80	12,344,802.31	-	95,229,166.47
2016	4,455,669.93	12,991,859.70	-	90,773,496.54
2017	4,161,289.10	13,286,240.52	-	86,612,207.44
2018	3,892,051.60	13,555,478.02	-	82,720,155.84
2019	3,632,463.70	13,815,065.92	-	79,087,692.14
2020	3,395,708.67	14,051,820.95	-	75,691,983.47
2021	3,180,699.22	14,266,830.40	-	72,511,284.25
2022	2,972,621.18	14,474,908.45	-	69,538,663.07
2023	2,777,590.48	14,669,939.14	-	66,761,072.59
2024	2,588,539.82	14,858,989.80	-	64,172,532.77
2025	2,429,797.06	15,017,732.56	-	61,742,735.71
2026	3,973,908.11	13,473,621.52	-	57,768,827.60
2027	13,873,973.00	3,726,600.95	-	43,894,854.60
2028	14,754,654.60	2,845,603.67	-	29,140,200.00
2029	29,140,200.00	954,341.55	-	-



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Table IV- 9a provides the receipts and disbursements of assets *excluding* the Bond issue assets and excluding the PAF.

		Table	IV	-9a			
Receipts	and	Disbursements	Ex	cluding Bond	lssue	e Assets	
		Municipal		Police		Fire	Total
Assets as of July 1, 2009	\$	1,621,968,345	\$	936,225,370	\$	274,377,033	\$ 2,832,570,748
Receipts							
Employer Contributions	\$	265,173,107	\$	143,118,132	\$	56,167,648	\$ 464,458,887
Employee Contributions		23,947,405		20,846,485		6,775,962	51,569,852
State Aid		32,272,258		19,854,099		7,067,872	59,194,229
Supplemental State Assistance		-		-		-	-
Investment Income							
(includes investment expenses)		238,082,707		137,858,123		40,939,716	416,880,547
Other Receipts							
Total Receipts	\$	559,475,478	\$	321,676,839	\$	110,951,198	\$ 992,103,515
Disbursements							
Benefit Payments	\$	385,776,014	\$	204,158,833	\$	82,705,014	\$ 672,639,861
Refund of Contributions		2,493,716		1,773,901		252,475	4,520,092
Administrative Expenses		5,329,182		2,059,296		685,653	8,074,131
PAF Transfer at Year End		-		-		-	-
Other Disbursements							 _
Total Disbursements	\$	393,598,912	\$	207,992,030	\$	83,643,142	\$ 685,234,084
Assets as of July 1, 2010	\$	1,787,844,911	\$	1,049,910,179	\$	301,685,089	\$ 3,139,440,179



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Table IV- 9b provides the market value of assets *including* the Bond issue assets and excluding the PAF.

		Table	IV-9	9b			
Receipts	and D	bisbursements	Incl	uding Bond Is	sue	Assets	
		Municipal		Police		Fire	Total
Assets as of July 1, 2009	\$	1,944,057,927	\$	1,044,499,636	\$	379,869,695	\$ 3,368,427,258
Receipts							
Employer Contributions	\$	226,782,337	\$	130,221,973	\$	46,357,790	\$ 403,362,100
Employee Contributions		23,947,405		20,846,485		6,775,962	51,569,852
State Aid		32,272,258		19,854,099		7,067,872	59,194,229
Supplemental State Assistance		-		-		-	-
Investment Income							
(includes investment expenses) Other Receipts		260,022,554		142,846,933		50,540,655	453,410,142
Total Receipts	\$	543,024,554	\$	313,769,490	\$	110,742,279	\$ 967,536,323
Disbursements							
Benefit Payments	\$	385,776,014	\$	204,158,833	\$	82,705,014	\$ 672,639,861
Refund of Contributions		2,493,716		1,773,901		252,475	4,520,092
Administrative Expenses		5,329,182		2,059,296		685,653	8,074,131
PAF Transfer at Year End		-		-		-	-
Other Disbursements	_						
Total Disbursements	\$	393,598,912	\$	207,992,030	\$	83,643,142	\$ 685,234,084
Assets as of July 1, 2010	\$	2,093,483,569	\$	1,150,277,097	\$	406,968,832	\$ 3,650,729,497



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

The Table IV -10 and Table IV -11 provide information on the City's Funding Policy for FYE 2011 and FYE 2012. The differences between the MMO and the City's Funding Policy are:

- The City's Funding Policy amortizes the initial July 1, 1985 unfunded actuarial liability over 34 years, whereas the MMO is determined based on a 40-year amortization schedule.
- A July 2004 amendment to Act 205 allowed for 2001 and 2002 calendar year investment losses to be amortized over 30 years for the MMO, rather than the usual 15 years which is used for the City's Funding Policy.
- The normal cost portion of the City's Funding Policy payment is based on actual fiscal year payroll, whereas the MMO is based on the prior year's estimated payroll for that year.
- Interest does not accumulate on the MMO, as long as the payment is made by the end of the fiscal year.
- Both the City's Funding Policy and the MMO utilize valuation results developed in the previous year (e.g., the July 1, 2010 valuation report will determine FYE 2011 contribution amounts). However, no interest is added to the MMO for this delay.
- The MMO reflects amortization of prior years' City contributions above past MMOs as actuarial gains.

Starting with FYE 2007-2008, the MMO recognized actuarial gains and losses every other year, in order to coincide with the filing of the Act 205 forms. Beginning for FYE 2012, gains and losses are recognized annually. The City's Funding Policy recognizes actuarial gains and losses on an annual basis.

Table IV -10 develops the amortized amounts for the current year under the City's Funding Policy. For additional details on the amortized amounts by plan, refer to Appendix B. Table IV -11 provides the estimated FYE 2012 and updated FYE 2011 contribution amount under the City's Funding Policy. The estimated FYE 2012 contribution will be updated in next year's actuarial valuation report based upon the July 1, 2011 payroll.



SECTION IV CONTRIBUTIONS AND MINIMUM MUNICIPAL OBLIGATION

Development of the	e Fiscal		nort	Total	nt under th	e Cit	ty's Funding P	olicy					
(\$ thousands) 7/1/2010 7/1/2011 Bernsining EV 2012 Bernsent EV 2012 Bernsent													
7/1/2010 7/1/2011 Remaining FY 2012 Payment FY 2012 Payment													
Outstanding Balance Expected Balance Years Beginning-of-Year End-of-Year 1. Expected Unfunded Actuarial													
Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation													
Remaining	\$	4,846,832	\$	4,608,025		\$	588,865	\$	636,858				
2. Changes in UAL due to a. Actuarial Experience	\$	(61,873)	\$	(66,916)	20	\$	(6,372)	\$	(6,892)				
b. Assumption Changes	Ψ		Ψ	163,536	15	Ψ	(0,372)	Ψ	(0,0)2)				
c. Active Plan Changes		151,212		- 105,550	13		- 17,828		19,281				
d. Inactive Plan Changes		-		-	1		-		-				
e. Subtotal	\$	89,339	\$	96,620	-	\$	11,456	\$	12,389				
3. Total [1c. + 2e.]	\$	4,936,172	\$	4,704,645		\$	600,321	\$	649,247				

City's	Fui	Table IV nding Polic	V-11 y Contributi	ion	s*							
Fiscal Year 2012 % of Pay 2011 % of Pay												
Estimated FY Payroll	\$	1,470,891		\$	1,421,151	**						
Normal Cost (with Expenses) Employee Contributions	\$	139,947 (50,251)	9.51% 3.42%	\$	138,709 (49,346)	9.76% 3.47%						
City Normal Cost	\$	89,696	6.10%	\$	89,363	6.29%						
Amortization Payment		600,321	40.81%		585,703	41.21%						
City's Funding Policy	\$	690,017	46.91%	\$	675,066	47.50%						

*

Assuming beginning-of-year payment. FYE 2011 payroll for the City's Funding Policy is the final payroll for the year. All other payroll is estimated based upon the prior year's data used for the actuarial valuation. **



SECTION V ACCOUNTING STATEMENT INFORMATION

The Governmental Accounting Standards Board's Statement No. 25 (GASB 25) is effective for plan years beginning after June 15, 1996, and supersedes Statement No. 5. GASB No. 25 establishes standards for disclosure of pension information by public employee retirement systems and governmental employers in notes to financial statements and supplementary information. The disclosure presents the actuarial liability computed for funding purposes to the actuarial value of assets to determine a funding ratio (i.e., the EAN liability). The actuarial liability is determined assuming that participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions. Liabilities are discounted at the assumed valuation interest rate of 8.75% per annum for Fiscal Year 2010. For Fiscal Year 2011, the assumed interest rate will change to 8.25% based upon July 1, 2009 liabilities valued at this interest rate. GASB Statement No. 25 requires the actuarial liability be compared with the actuarial value of assets for funding purposes. The relevant amounts as of July 1, 2010 are presented in Table V-1 and Table V-2.

GASB 25 also requires for the disclosure of two financial statements and two schedules of historical information:

- Statement of Plan Net Assets includes information about System assets and liabilities at the valuation date. This statement can be found at the beginning of the Assets section of this report, in Table II-1. The City's deferred contributions are included in these amounts based on the requirement set out in Section 10 of Act 205.
- Statement of Changes in Plan Net Assets shows receipts and disbursements from the Fund for the most recent plan year. This statement can also be found in the Assets section of this report, in Table II-2. The City's deferred contributions are included in these amounts based on the requirement set out in Section 10 of Act 205.
- Schedule of Funding Progress discloses historical information about the funded status of the plan. This schedule can be found in Table V-3.
- Schedule of Employer Contributions discloses historical information about the Annual Required Contribution (ARC) and the actual contributions made by the employer. This schedule can be found in Table V-4. These contributions do not include the deferred contribution of \$150 million.

GASB Statement No. 27 requires that financial statements must include additional disclosures for pension expenditures/expenses. It is effective for the period beginning after June 15, 1997. Table V-5 summarizes the results of this valuation according to our interpretation of GASB 27. The interpretation of the statements is subject to your auditor's review. The required disclosures are:

• Annual Required Contribution (ARC) – this is the expected contribution required based on statement-specific valuation methods and assumptions, with the unfunded liability amortized



SECTION V ACCOUNTING STATEMENT INFORMATION

over an initial period not to exceed 40 years and thereafter 30 years, either as a level-dollar amount or as a level percentage of pay, and with amortization of contributions less than or in excess of the required amount. Historically, the ARC has been shown as the contribution required under the City's Funding Policy.

- Equivalent Single Amortization Period this is the number of years incorporated in a weighted average amortization factor for all amortization components combined. The weighted average amortization factor is equal to the total unfunded actuarial liability divided by the sum of the amortization provisions for each of the separately amortized components. This weighted average produces 12.3 years where the amortized components are based upon the Funding policy.
- Net Pension Obligation (NPO) the accumulated value of contribution deficiencies (or excesses) over required contributions from July 1, 1987 to July 1, 2010 between the annual pension cost and the employer's contribution.

	Table V-1 Funding Status Under GASB Statement No. 25 (\$ thousands)													
	July 1, 2010 July 1, 2009 % Change													
1.	1. Actuarial Liabilities													
	a. Members Currently Receiving Payments	\$	6,140,923	\$	5,693,789	7.9%								
	b. Vested Terminated and Inactive Members		156,241		116,672	33.9%								
	c. Active Members		3,019,883		3,164,583	-4.6%								
	d. Total Actuarial Liability	\$	9,317,047	\$	8,975,044	3.8%								
2.	Actuarial Value of Assets	\$	4,380,875	\$	4,042,113	8.4%								
3.	Unfunded Actuarial Liability	\$	4,936,172	\$	4,932,931	0.1%								
4.	Ratio of Actuarial Value of Assets													
	to Actuarial Liability (2)/(1)(d)		47.0%		45.0%	2.0%								

• Annual Pension Cost – is equal to the ARC plus one year's interest on NPO and ARC adjustment.



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-2 Statement of Changes in Liabilities - GASB No. 25 Basis (\$ thousands)									
Actuarial Liability as of July 1, 2009	8,975,044								
Increase (Decrease) During Year Attributable to:									
Passage of Time		712,508							
Benefits Paid		(677,160)							
Assumption Change		151,212							
Plan Amendment		-							
Benefits Accrued, Other Gains/Losses		155,443							
Net Increase (Decrease)	\$	342,003							
Actuarial Liability as of July 1, 2010	\$	9,317,047							

	Table V-3 Schedule of Funding Progress (\$ millions)										
Actuarial Valuation Date *	Actuarial Value of Assets	e Actuarial Liability	Unfunded Actuarial Liability (UAL)	Funded Ratio	Covered Payroll	UAL as a % of Covered Payroll					
	(a)	(b)	(b-a)	(a / b)	(c)	[(b-a)/c]					
7/1/1992	\$ 1,981.8	\$ 4,425.5	\$ 2,443.7	44.8%	\$ 993.3	246.0%					
7/1/1993	2,113.9	4,502.1	2,388.2	47.0%	975.0	244.9%					
7/1/1994	2,225.2	4,662.6	2,437.4	47.7%	974.3	250.2%					
7/1/1995	2,312.1	4,850.8	2,538.7	47.7%	1,006.4	252.3%					
7/1/1996	2,457.2	5,098.1	2,640.9	48.2%	1,068.3	247.2%					
7/1/1997	2,660.9	5,318.1	2,657.2	50.0%	1,067.7	248.9%					
7/1/1998	2,921.3	5,586.1	2,664.8	52.3%	1,128.2	236.2%					
7/1/1999	4,496.8	5,862.1	1,365.3	76.7%	1,178.6	115.8%					
7/1/2000	4,765.0	6,193.4	1,428.4	76.9%	1,142.8	125.0%					
7/1/2001	4,943.4	6,379.8	1,436.4	77.5%	1,180.4	121.7%					
7/1/2002	4,891.3	6,727.2	1,835.9	72.7%	1,207.3	152.1%					
7/1/2003	4,548.1	7,188.3	2,640.2	63.3%	1,269.3	208.0%					
7/1/2004	4,333.1	7,247.7	2,914.6	59.8%	1,266.0	230.2%					
7/1/2005	4,159.5	7,851.5	3,692.0	53.0%	1,270.7	290.5%					
7/1/2006	4,168.5	8,083.7	3,915.2	51.6%	1,319.4	296.7%					
7/1/2007	4,421.7	8,197.2	3,775.5	53.9%	1,351.8	279.3%					
7/1/2008	4,623.6	8,402.2	3,778.7	55.0%	1,456.5	259.4%					
7/1/2009	4,042.1	8,975.0	4,932.9	45.0%	1,463.3	337.1%					
7/1/2010	4,380.9	9,317.0	4,936.2	47.0%	1,421.2	347.3%					

* The actuarial valuation reports need to be referenced in comparison of these values to ascertain when and if the values reflect assumption, benefit or method changes.



SECTION V ACCOUNTING STATEMENT INFORMATION

Schedu	Table V-4 Schedule of Employer Contributions (\$ millions)										
Fiscal Year Ended June 30	Annual Required Contribution (ARC)	Percentage of ARC Contributed									
1993	\$ 209.4	100.0%									
1994	223.8	104.5%									
1995	212.8	100.0%									
1996	222.5	100.0%									
1997	237.0	100.0%									
1998	252.1	100.0%									
1999	256.7	586.9%*									
2000	168.9	108.9%									
2001	167.6	100.0%									
2002	178.2	100.0%									
2003	195.5	91.9%									
2004	253.8	79.9%									
2005	358.1	83.6%									
2006	395.0	84.0%									
2007	527.9	81.9%									
2008	536.9	79.5%									
2009	539.5	84.4%									
2010	581.1	53.8%**									

* Due to the Pension Obligation Bond worth \$1,250,000,000 deposited on February 2, 1999.
 ** Reflects the actual contribution contributed for FYE 2010 which does not include the deferred contribution



SECTION V ACCOUNTING STATEMENT INFORMATION

						Ta	ble	• V-5							
				Calcı	ıla	tion of A	nr	nual Pens	sio	n Cost					
	(\$ thousands)														
		1994		1995		1996		1997		1998	1999		2000		2001
ARC	\$	223,750	\$	212,838	\$	222,482	\$	237,016	\$	252,080	\$ 256,704	\$	168,928	\$	167,616
Interest on NPO		-		(900)		(869)		(840)		(811)	(783)		(113,257)		(110,748)
Adjustment to ARC		-		1,241		1,198		1,158		1,118	1,080		156,130		152,672
Annual Pension Cost	\$	223,750	\$	213,179	\$	222,811	\$	237,334	\$	252,387	\$ 257,001	\$	211,801	\$	209,540
Contributions		233,750	-	212,838	-	222,482	-	237,016	-	252,080	1,506,704	-	183,928	+	167,616
Increase in NPO	\$	(10,000)	\$	341	\$	329	\$	318	\$	307	\$(1,249,703)	\$	27,873	\$	41,924
NPO at BOY	Ŧ	-	Ŧ	(10,000)	Ŧ	(9,659)	Ŧ	(9,330)	Ŧ	(9,012)	(8,705)		(1,258,408)		1,230,535)
NPO at EOY	\$	(10,000)	\$	(9,659)	\$	(9,330)	\$	(9,012)	\$	(8,705)	\$(1,258,408)	\$((1,230,535)	\$(1,188,611)
Interest Rate		9.00%		9.00%		9.00%		9.00%		9.00%	9.00%		9.00%		9.00%
15-Year Amortization															
Factor (EOY)		8.06		8.06		8.06		8.06		8.06	8.06		8.06		8.06

Note: (\$9,012,000) was the NPO at transition date.

SECTION V ACCOUNTING STATEMENT INFORMATION

				Table V	-5				
		Calcu	lation of A	nnual Pens	ion Cost (c	continued)			
				(\$ thousan	ds)				
	2002	2003	2004	2005	2006	2007	2008	2009	2010
ARC	\$ 178,239	\$ 195,514	\$ 253,844	\$ 358,141	\$ 394,950	\$527,925 \$	5 536,874 \$	539,464 \$	581,123
Interest on NPO Adjustment to ARC	(106,975) 147,470	(103,330) 142,446	(98,392) 135,638	(90,448) 124,687	(82,068) 113,135	(71,541) 99,953	(60,685) 84,785	(48,957) 68,399	(39,899) 55,744
Annual Pension Cost Contributions	\$ 218,734 178,239	\$ 234,630 179,757	\$ 291,090 202,827	\$ 392,380 299,266	\$ 426,017 331,765	\$ 556,337 \$ 432,267	5 560,974 \$ 426,934	558,906 \$ 455,389	596,968 312,556
Increase in NPO NPO at BOY	\$ 40,495 (1,188,611)	\$ 54,873 (1,148,116)	\$ 88,263 (1,093,243)	\$ 93,114 (1,004,980)	\$ 94,252 (911,866)	\$ 124,069 \$ (817,614)	6 134,040 \$ (693,545)	103,517 \$ (559,505)	284,412 (455,987)
NPO at EOY	\$(1,148,116)	\$(1,093,243)	\$(1,004,980)	\$ (911,866)	\$ (817,614)	\$ (693,545) \$	6 (559,505) \$	(455,987) \$	(171,575)
Interest Rate	9.00%	9.00%	9.00%	9.00%	9.00%	8.75%	8.75%	8.75%	8.75%
15-Year Amortization Factor (EOY)	8.06	8.06	8.06	8.06	8.06	8.18	8.18	8.18	8.18



APPENDIX A MEMBERSHIP INFORMATION

The data for this valuation was provided by the Board of Pensions as of July 1, 2010. Cheiron did not audit any of the data; however, it was reviewed to ensure that it complies with generally accepted actuarial standards. The following is a list of data charts contained in this section:

- A-1: Active Member Data by Plan
- A-2: Non-Active Member Data, Counts, by Plan
- A-3: Non-Active Member Data, Total Annual Benefits, by Plan
- A-4: Non-Active Member Data, Average Annual Benefits, by Plan
- A-5 through A-20: Age/Service Distribution for Active Participants, Counts and Average Salary for all Plans
- A-21: Reconciliation of Plan Membership
- A-22 through A-26: Age and Benefit Distributions for Non-Active Member Data



						e A-1 ember Data			
	J	uly 1, 2010	J	uly 1, 2009	% Change		July 1, 2010	July 1, 2009	% Change
<u>Total City</u>						<u>1987 Municipal</u>			
Count		27,928		28,632	-2.5%	Count	15,326	15,244	0.5%
Average Age		43.9		43.6	0.6%	Average Age	43.5	43.0	1.2%
Average Service		12.5		12.3	2.0%	Average Service	8.6	8.0	7.1%
Average Salary	\$	50,886	\$	51,106	-0.4%	Average Salary	\$ 43,847	\$ 44,229	-0.9%
Total Annual Salary	\$	1,421,150,868	\$	1,463,259,769	-2.9%	Total Annual Salary	\$ 671,999,670	\$ 674,227,879	-0.3%
<u>1967 Municipal</u>						1987 Elected			
Count		4,214		4,761	-11.5%	Count	17	16	6.3%
Average Age		52.2		51.7	0.8%	Average Age	56.8	56.6	0.2%
Average Service		24.7		24.0	2.8%	Average Service	21.1	20.3	3.7%
Average Salary	\$	54,708	\$	54,493	0.4%	Average Salary	\$ 126,490	\$ 118,275	6.9%
Total Annual Salary	\$	230,539,884	\$	259,440,967	-11.1%	Total Annual Salary	\$ 2,150,337	\$ 1,892,402	13.6%
1967 Police						1987 Police			
Count		891		1,033	-13.7%	Count	5,586	5,536	0.9%
Average Age		52.3		51.6	1.3%	Average Age	38.3	37.8	1.5%
Average Service		26.9		26.2	2.5%	Average Service	11.7	11.0	5.6%
Average Salary	\$	69,578	\$	69,407	0.2%	Average Salary	\$ 60,249	\$ 59,735	0.9%
Total Annual Salary	\$	61,994,308	\$	71,697,813	-13.5%	Total Annual Salary	\$ 336,550,819	\$ 330,694,468	1.8%
<u>1967 Fire</u>						<u>1987 Fire</u>			
Count		290		406	-28.6%	Count	1,604	1,636	-2.0%
Average Age		53.3		53.4	-0.1%	Average Age	39.2	38.3	2.2%
Average Service		27.2		27.1	0.3%	Average Service	10.6	9.6	9.7%
Average Salary	\$	68,805	\$	68,850	-0.1%	Average Salary	\$ 61,074	\$ 59,507	2.6%
Total Annual Salary	\$	19,953,494	\$	27,953,044	-28.6%	Total Annual Salary	\$ 97,962,356	\$ 97,353,196	0.6%



				'able A-2 ve Member Data Count			
	July 1, 2010	July 1, 2009	% Change		July 1, 2010	July 1, 2009	% Change
<u>Total City</u>				1987 Municipal Plan			
Retired	21,064	21,214	-0.7%	Retired	760	673	12.9%
Disabled	4,280	4,288	-0.2%	Disabled	183	150	22.0%
Beneficiary	8,558	8,554	0.0%	Beneficiary	140	123	13.8%
In Pay Status Total	33,902	34,056	-0.5%	In Pay Status Total	1,083	946	14.5%
DROP	2,018	1,638	23.2%	DROP	227	158	43.7%
Deferred Vested	1,599	1,336	19.7%	Deferred Vested	788	584	34.9%
1967 Municipal Plan				1987 Elected Plan			
Retired	12,613	12,757	-1.1%	Retired	12	11	9.1%
Disabled	1,784	1,818	-1.9%	Disabled	-	-	0.0%
Beneficiary	5,323	5,340	-0.3%	Beneficiary	3	3	0.0%
In Pay Status Total	19,720	19,915	-1.0%	In Pay Status Total	15	14	7.1%
DROP	1,180	1,064	10.9%	DROP	8	10	-20.0%
Deferred Vested	631	627	0.6%	Deferred Vested	-	-	
1967 Police Plan				1987 Police Plan			
Retired	5,561	5,653	-1.6%	Retired	85	71	19.7%
Disabled	1,660	1,703	-2.5%	Disabled	223	182	22.5%
Beneficiary	2,184	2,160	1.1%	Beneficiary	82	78	5.1%
In Pay Status Total	9,405	9,516	-1.2%	In Pay Status Total	390	331	17.8%
DROP	293	208	40.9%	DROP	46	24	91.7%
Deferred Vested	4	1	300.0%	Deferred Vested	143	98	45.9%
1967 Fire Plan				<u> 1987 Fire Plan</u>			
Retired	1,995	2,018	-1.1%	Retired	38	31	22.6%
Disabled	389	399	-2.5%	Disabled	41	36	13.9%
Beneficiary	796	821	-3.0%	Beneficiary	30	29	3.4%
In Pay Status Total	3,180	3,238	-1.8%	In Pay Status Total	109	96	13.5%
DROP	236	157	50.3%	DROP	28	17	64.7%
Deferred Vested	4	-	N/A	Deferred Vested	29	26	11.5%



				Non-Active N	e A-3 Member Data ual Benefit				
	J	fuly 1, 2010	July 1, 2009	% Change		J	uly 1, 2010	July 1, 2009	% Change
<u>Total City</u> Retired Disabled Beneficiary	\$	471,915,618 77,910,564 65,415,177	\$ 466,141,068 76,102,842 63,748,832	1.2% 2.4% 2.6%	<u>1987 Municipal Plan</u> Retired Disabled Beneficiary	\$	8,348,525 3,023,013 942,683	\$ 7,211,907 2,474,655 818,459	15.8% 22.2% 15.2%
In Pay Status Total	\$	615,241,359	\$ 605,992,742	1.5%	In Pay Status Total	\$	12,314,221	\$ 10,505,021	17.2%
DROP (pension) DROP (account balance)	\$	75,645,974 137,855,170	\$ 59,070,942 102,410,327	28.1% 34.6%	DROP (pension) DROP (account balance)	\$	3,220,970 4,815,374	2,082,793 3,140,471	54.6% 53.3%
Deferred Vested		23,934,436	19,090,252	25.4%	Deferred Vested		9,528,661	7,006,259	36.0%
1967 Municipal Plan Retired Disabled	\$	262,617,624 29,727,304	\$ 258,418,045 29,660,762	1.6% 0.2%	<u>1987 Elected Plan</u> Retired Disabled	\$	630,007	\$ 472,429	33.4% 0.0%
Beneficiary		37,684,170	 36,889,539	2.2%	Beneficiary		68,613	 68,613	0.0%
In Pay Status Total	\$	330,029,098	\$ 324,968,346	1.6%	In Pay Status Total	\$	698,620	\$ 541,042	29.1%
DROP (pension) DROP (account balance)	\$	42,997,293 82,162,349	\$ 37,332,478 67,721,377	15.2% 21.3%	DROP (pension) DROP (account balance)	\$	715,386 1,894,435	\$ 855,097 1,487,723	-16.3% 27.3%
Deferred Vested		11,312,196	10,199,738	10.9%	Deferred Vested		-	-	0.0%
1967 Police Plan Retired Disabled	\$	139,181,415 28,916,457	\$ 139,713,961 29,375,032	-0.4% -1.6%	1987 Police Plan Retired Disabled	\$	1,371,929 7,268,526	\$ 1,095,917 5,714,074	25.2% 27.2%
Beneficiary	<u></u>	18,381,339	 17,829,239	3.1%	Beneficiary	<u></u>	715,504	 673,644	6.2%
In Pay Status Total DROP (pension) DROP (account balance) Deferred Vested	\$ \$	186,479,211 14,344,780 24,295,689 152,819	186,918,232 9,613,268 14,559,324 13,436	-0.2% 49.2% 66.9% 1037.4%	In Pay Status Total DROP (pension) DROP (account balance) Deferred Vested	\$ \$	9,355,959 1,073,274 1,234,685 2,313,345	7,483,635 529,819 496,201 1,491,992	25.0% 102.6% 148.8% 55.1%
1967 Fire Plan		152,017	15,155	1037.170	1987 Fire Plan		2,515,515	1,171,772	
Retired Disabled Beneficiary	\$	59,166,155 7,604,743 7,332,201	\$ 58,785,333 7,689,636 7,201,392	0.6% -1.1% 1.8%	Retired Disabled Beneficiary	\$	599,963 1,370,521 290,667	\$ 443,476 1,188,683 267,946	35.3% 15.3% 8.5%
In Pay Status Total	\$	74,103,099	\$ 73,676,361	0.6%	In Pay Status Total	\$	2,261,151	\$ 1,900,105	19.0%
DROP (pension) DROP (account balance)	\$	12,630,219 22,548,459	\$ 8,283,104 14,695,239	52.5% 53.4%	DROP (pension) DROP (account balance)	\$	664,052 904,178	\$ 374,383 309,992	77.4% 191.7%
Deferred Vested		181,532	-	N/A	Deferred Vested		445,883	378,827	17.7%



				Non-Active	le A-4 Member Data nnual Benefit			
	Ju	ly 1, 2010	July 1, 2009	% Change		July 1, 2010	July 1, 2009	% Change
<u>Total City</u> Retired Disabled Beneficiary	\$	22,404 18,203 7,644	\$ 21,973 17,748 7,453	2.0% 2.6% 2.6%	<u>1987 Municipal Plan</u> Retired Disabled Beneficiary	\$ 10,985 16,519 6,733	\$ 10,716 16,498 6,654	2.5% 0.1% 1.2%
In Pay Status Total		18,148	17,794	2.0%	In Pay Status Total	11,370	11,105	2.4%
DROP (pension) DROP (account balance)		37,486 68,313	36,063 62,522	3.9% 9.3%	DROP (pension) DROP (account balance)	14,189 21,213	13,182 19,876	7.6% 6.7%
Deferred Vested		14,968	14,289	4.8%	Deferred Vested	12,092	11,997	0.8%
1967 Municipal Plan Retired Disabled	\$	20,821 16,663	\$ 20,257 16,315	2.8% 2.1%	<u>1987 Elected Plan</u> Retired Disabled	\$ 52,501	\$ 42,948	22.2% 0.0%
Beneficiary		7,079	6,908	2.5%	Beneficiary	22,871	22,871	0.0%
In Pay Status Total		16,736	16,318	2.6%	In Pay Status Total	46,575	38,646	20.5%
DROP (pension) DROP (account balance)		36,438 69,629	35,087 63,648	3.9% 9.4%	DROP (pension) DROP (account balance)	89,423 236,804	85,510 148,772	4.6% 59.2%
Deferred Vested		17,927	16,268	10.2%	Deferred Vested	-	-	0.0%
1967 Police Plan Retired Disabled Beneficiary	\$	25,028 17,420 8,416	\$ 24,715 17,249 8,254	1.3% 1.0% 2.0%	<u>1987 Police Plan</u> Retired Disabled Beneficiary	\$ 16,140 32,594 8,726	\$ 15,435 31,396 8,636	4.6% 3.8% 1.0%
In Pay Status Total		19,828	19,643	0.9%	In Pay Status Total	23,990	22,609	6.1%
DROP (pension) DROP (account balance)		48,958 82,920	46,218 69,997	5.9% 18.5%	DROP (pension) DROP (account balance)	23,332 26,841	22,076 20,675	5.7% 29.8%
Deferred Vested		38,205	13,436	184.3%	Deferred Vested	16,177	15,224	6.3%
1967 Fire Plan Retired Disabled Beneficiary	\$	29,657 19,549 9,211	\$ 29,130 19,272 8,771	1.8% 1.4% 5.0%	<u>1987 Fire Plan</u> Retired Disabled Beneficiary	\$ 33,427 9,689	\$ 14,306 33,019 9,240	10.4% 1.2% 4.9%
In Pay Status Total DROP (pension) DROP (account balance)		23,303 53,518 95,544	22,754 52,759 93,600	2.4% 1.4% 2.1%	In Pay Status Total DROP (pension) DROP (account balance)	20,745 23,716 32,292	19,793 22,023 18,235	4.8% 7.7% 77.1%
Deferred Vested		45,383	-	N/A	Deferred Vested	15,375	14,570	5.5%



APPENDIX A **MEMBERSHIP INFORMATION**

Table A-5 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Total City

COUNTS BY AGE/SERVICE											
				Servi	ce						
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total		
Under 25	169	552	46	0	0	0	0	0	767		
25 to 29	208	1,584	568	48	0	0	0	0	2,408		
30 to 34	118	1,123	1,233	554	33	0	0	0	3,061		
35 to 39	85	700	951	1,343	340	40	0	1	3,460		
40 to 44	65	579	770	1,237	961	642	9	0	4,263		
45 to 49	36	490	681	911	839	1,236	280	13	4,486		
50 to 54	53	417	549	700	603	1,220	922	283	4,747		
55 to 59	23	324	422	536	360	543	371	465	3,044		
60 to 64	9	183	268	261	138	128	81	128	1,196		
65 & up	5	97	143	98	49	42	14	48	496		
Total	771	6,049	5,631	5,688	3,323	3,851	1,677	938	27,928		

COUNTS DV ACE/SEDVICE

Table A-6 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Total City

					Ser	vice	<u>)</u>				
Age	Uı	nder 1	1 to 4	5 to 9	10 to 14		15 to 19	20 to 24	25 to 29	30 & Up	Total
Under 25	\$	35,361	\$ 38,272	\$ 29,345	\$ -	\$	-	\$ -	\$ -	\$ -	\$ 37,096
25 to 29		38,598	45,357	47,881	47,508		-	-	-	-	45,412
30 to 34		40,804	46,247	53,084	54,779		51,002	-	-	-	50,387
35 to 39		41,232	44,768	52,916	56,652		56,755	57,499	-	60,451	52,863
40 to 44		38,848	41,749	49,726	56,358		59,059	59,949	57,914	-	54,062
45 to 49		36,191	39,291	44,536	51,062		57,156	59,077	61,724	54,603	52,690
50 to 54		45,273	37,348	42,301	47,614		53,489	55,216	64,222	62,104	52,861
55 to 59		40,165	37,496	44,085	46,488		49,091	52,859	61,600	64,428	51,177
60 to 64		45,819	32,776	40,670	43,874		45,527	53,191	58,376	62,650	45,652
65 & up		33,952	20,125	34,619	39,414		48,499	39,053	41,879	52,554	36,412
Total	\$	38,985	\$ 42,212	\$ 48,058	\$ 52,480	\$	55,455	\$ 56,692	\$ 62,722	\$ 62,736	\$ 50,886



APPENDIX A MEMBERSHIP INFORMATION

Table A-7 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Municipal (Plan 67)

COUNTS BY AGE/SERVICE											
				Servi	ce						
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total		
Under 25	4	0	0	0	0	0	0	0	4		
25 to 29	0	0	0	0	0	0	0	0	0		
30 to 34	0	1	0	0	0	0	0	0	1		
35 to 39	0	1	0	4	12	3	0	0	20		
40 to 44	0	0	1	4	87	207	4	0	303		
45 to 49	0	0	2	5	146	559	194	9	915		
50 to 54	2	0	3	9	156	720	616	218	1,724		
55 to 59	0	1	4	3	86	303	246	270	913		
60 to 64	0	0	3	2	35	88	55	64	247		
65 & up	0	0	0	0	13	33	11	30	87		
Total	6	3	13	27	535	1,913	1,126	591	4,214		

COUNTS DV ACE/SEDVICE

Table A-8 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Municipal (Plan 67)

				Sei	rvice				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total
Under 25	\$ 5,683	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,683
25 to 29	-	-	-	-	-	-	-	-	-
30 to 34	-	50,698	-	-	-	-	-	-	50,698
35 to 39	-	38,444	-	46,351	51,377	46,672	-	-	49,020
40 to 44	-	-	33,203	44,496	52,855	53,016	59,500	-	52,878
45 to 49	-	-	51,891	41,911	51,015	53,237	58,634	56,592	53,995
50 to 54	32,360	-	59,609	49,354	49,826	51,050	61,897	60,628	56,011
55 to 59	-	41,348	62,544	41,775	48,943	48,049	58,838	59,568	54,482
60 to 64	-	-	73,611	41,790	50,681	52,688	58,468	61,898	56,243
65 & up	-	-	-	-	53,750	38,332	44,624	46,919	44,392
Total	\$ 14,575	\$ 43,497	\$ 60,525	\$ 45,409	\$ 50,687	\$ 51,276	\$ 60,322	\$ 59,524	\$ 54,708

APPENDIX A MEMBERSHIP INFORMATION

Table A-9 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Police (Plan 67)

COUNTS BY AGE/SERVICE											
				Servic	e						
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total		
Under 25	0	0	0	0	0	0	0	0	0		
25 to 29	0	0	0	0	0	0	0	0	0		
30 to 34	0	0	0	0	0	0	0	0	0		
35 to 39	0	0	0	0	0	0	0	0	0		
40 to 44	0	0	0	1	7	25	0	0	33		
45 to 49	0	0	1	0	4	142	55	1	203		
50 to 54	0	0	0	0	0	139	193	48	380		
55 to 59	0	0	0	0	0	58	67	106	231		
60 to 64	0	0	0	0	1	8	11	24	44		
65 & up	0	0	0	0	0	0	0	0	0		
Total	0	0	1	1	12	372	326	179	891		

COUNTS DV ACE/SEDVICE

Table A-10 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Police (Plan 67)

				Sei	vice				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total
Under 25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25 to 29	-	-	-	-	-	-	-	-	-
30 to 34	-	-	-	-	-	-	-	-	-
35 to 39	-	-	-	-	-	-	-	-	-
40 to 44	-	-	-	60,451	61,610	65,700	-	-	64,673
45 to 49	-	-	60,047	-	60,856	68,456	73,423	60,856	69,573
50 to 54	-	-	-	-	-	65,064	71,154	72,757	69,129
55 to 59	-	-	-	-	-	64,322	70,798	75,824	71,478
60 to 64	-	-	-	-	66,942	61,909	66,632	69,216	67,190
65 & up	-	-	-	-	-	-	-	-	-
Total	\$ -	\$ -	\$ 60,047	\$ 60,451	\$ 61,803	\$ 66,218	\$ 71,311	\$ 74,032	\$ 69,578



APPENDIX A MEMBERSHIP INFORMATION

Table A-11 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Fire (Plan 67)

COUNTS BY AGE/SERVICE											
				Servio	e						
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total		
Under 25	0	0	0	0	0	0	0	0	0		
25 to 29	0	0	0	0	0	0	0	0	0		
30 to 34	0	0	0	0	0	0	0	0	0		
35 to 39	0	0	0	0	0	0	0	0	0		
40 to 44	0	0	0	0	1	6	0	0	7		
45 to 49	0	0	0	0	1	31	12	0	44		
50 to 54	0	0	0	0	1	43	81	1	126		
55 to 59	0	0	0	0	1	9	31	47	88		
60 to 64	0	0	0	0	0	3	4	17	24		
65 & up	0	0	0	0	0	0	0	1	1		
Total	0	0	0	0	4	92	128	66	290		

COUNTS BY AGE/SERVICE

 Table A-12

 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Fire (Plan 67)

				Servic	e				
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total
Under 25	\$ -	\$-\$	- \$	- \$	- \$	- 3	\$ -	\$ -	\$ -
25 to 29	-	-	-	-	-	-	-	-	-
30 to 34	-	-	-	-	-	-	-	-	-
35 to 39	-	-	-	-	-	-	-	-	-
40 to 44	-	-	-	-	60,834	63,860	-	-	63,427
45 to 49	-	-	-	-	60,834	68,634	68,467	-	68,411
50 to 54	-	-	-	-	60,834	64,574	67,614	78,590	66,609
55 to 59	-	-	-	-	60,834	63,704	66,400	76,492	71,451
60 to 64	-	-	-	-	-	63,975	64,985	74,940	71,910
65 & up	-	-	-	-	-	-	-	93,104	93,104
Total	\$ -	\$-\$	- \$	- \$	60,834 \$	65,791	\$ 67,317	\$ 76,376	\$ 68,805



APPENDIX A MEMBERSHIP INFORMATION

Table A-13 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Municipal (Plan 87)

COUNTS BY AGE/SERVICE											
				Servi	ce						
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total		
Under 25	104	351	43	0	0	0	0	0	498		
25 to 29	150	985	355	30	0	0	0	0	1,520		
30 to 34	97	792	749	241	29	0	0	0	1,908		
35 to 39	67	519	605	586	150	18	0	0	1,945		
40 to 44	61	493	577	677	319	90	3	0	2,220		
45 to 49	35	487	611	656	328	137	16	2	2,272		
50 to 54	51	416	519	599	302	117	25	16	2,045		
55 to 59	23	322	406	490	245	102	26	38	1,652		
60 to 64	9	183	263	246	100	29	11	22	863		
65 & up	5	97	143	96	36	9	3	14	403		
Total	602	4,645	4,271	3,621	1,509	502	84	92	15,326		

COUNTS DV ACE/SEDVICE

Table A-14 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Municipal (Plan 87)

				Ser	vic	e				
Age	Under 1	1 to 4	5 to 9	10 to 14		15 to 19	20 to 24	25 to 29	30 & Up	Total
Under 25	\$ 32,427	\$ 30,220	\$ 27,963	\$ -	\$	-	\$ -	\$ -	\$ -	\$ 30,486
25 to 29	36,726	39,977	40,867	42,377		-	-	-	-	39,911
30 to 34	40,243	42,839	48,258	46,121		49,528	-	-	-	45,351
35 to 39	40,829	41,208	48,460	49,894		48,967	52,587	-	-	46,771
40 to 44	38,400	39,555	46,140	51,805		51,551	52,404	41,379	-	47,218
45 to 49	35,573	39,063	42,648	47,130		52,530	54,208	53,002	39,398	45,258
50 to 54	45,780	37,154	41,244	45,439		50,193	50,769	51,473	49,232	43,808
55 to 59	40,165	37,223	43,404	45,196		47,498	52,258	55,904	49,622	44,179
60 to 64	45,819	32,776	40,147	42,984		43,207	51,196	47,255	45,387	40,402
65 & up	33,952	20,125	34,619	38,376		46,602	41,698	31,813	47,109	33,658
Total	\$ 38,120	\$ 38,583	\$ 44,109	\$ 47,290	\$	49,867	\$ 52,231	\$ 51,521	\$ 47,937	\$ 43,847

APPENDIX A MEMBERSHIP INFORMATION

Table A-15 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Elected (Plan 87)

COUNTS BY AGE/SERVICE											
				Servic	e						
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total		
Under 25	0	0	0	0	0	0	0	0	0		
25 to 29	0	0	0	0	0	0	0	0	0		
30 to 34	0	0	0	0	0	0	0	0	0		
35 to 39	0	0	0	0	0	0	0	0	0		
40 to 44	0	0	0	0	1	1	0	0	2		
45 to 49	0	1	0	1	0	0	0	0	2		
50 to 54	0	1	0	0	2	0	1	0	4		
55 to 59	0	1	0	0	0	0	1	2	4		
60 to 64	0	0	0	0	0	0	0	1	1		
65 & up	0	0	0	1	0	0	0	3	4		
Total	0	3	0	2	3	1	2	6	17		

COUNTS BY AGE/SERVICE

 Table A-16

 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Elected (Plan 87)

					Serv	vice				
Age	Under 1	1 to 4	5 to 9		10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total
Under 25	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$ -	\$ -	\$ -
25 to 29	-	-		-	-	-	-	-	-	-
30 to 34	-	-		-	-	-	-	-	-	-
35 to 39	-	-		-	-	-	-	-	-	-
40 to 44	-	-		-	-	160,850	117,991	-	-	139,421
45 to 49	-	117,991		-	117,991	-	-	-	-	117,991
50 to 54	-	117,991		-	-	117,991	-	195,588	-	137,390
55 to 59	-	121,559		-	-	-	-	124,010	117,991	120,388
60 to 64	-	-		-	-	-	-	-	124,010	124,010
65 & up	-	-		-	117,991	-	-	-	120,800	120,098
Total	\$ -	\$ 119,180	\$	- \$	117,991	\$ 132,277	\$ 117,991	\$ 159,799	\$ 120,399	\$ 126,490



APPENDIX A MEMBERSHIP INFORMATION

Table A-17 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Police (Plan 87)

COUNTS BY AGE/SERVICE											
Service											
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total		
Under 25	61	174	2	0	0	0	0	0	237		
25 to 29	58	440	179	14	0	0	0	0	691		
30 to 34	21	224	360	292	3	0	0	0	900		
35 to 39	18	131	219	638	155	16	0	1	1,178		
40 to 44	4	54	110	422	422	302	1	0	1,315		
45 to 49	1	0	37	186	240	325	2	1	792		
50 to 54	0	0	17	67	92	156	4	0	336		
55 to 59	0	0	6	37	21	57	0	1	122		
60 to 64	0	0	2	10	2	0	0	0	14		
65 & up	0	0	0	1	0	0	0	0	1		
Total	163	1,023	932	1,667	935	856	7	3	5,586		

COUNTS DV ACE/SEDVICE

Table A-18 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Police (Plan 87)

	Service													
Age	Under 1		1 to 4		5 to 9		10 to 14		15 to 19		20 to 24	25 to 29	30 & Up	Total
Under 25	\$ 42,31	0 \$	52,293	\$	47,710	\$	-	\$	-	\$	-	\$ -	\$ -	\$ 49,685
25 to 29	43,44	1	54,323		59,689		56,831		-		-	-	-	54,851
30 to 34	43,39	9	54,352		60,388		61,495		63,138		-	-	-	58,858
35 to 39	42,72	9	55,024		60,170		61,677		63,607		64,768	-	60,451	60,662
40 to 44	45,68	5	54,851		60,267		61,497		63,969		66,062	66,942	-	62,919
45 to 49	57,82	7	-		60,616		61,177		62,880		65,075	61,174	60,856	63,262
50 to 54		-	-		60,400		61,023		63,114		63,528	67,650	-	62,806
55 to 59		-	-		60,047		61,263		62,126		63,137	-	60,451	62,221
60 to 64		-	-		60,047		60,451		60,654		-	-	-	60,422
65 & up		-	-		-		60,451		-		-	-	-	60,451
Total	\$ 43,07	7\$	54,102	\$	60,168	\$	61,459	\$	63,494	\$	65,006	\$ 65,698	\$ 60,586	\$ 60,249

APPENDIX A MEMBERSHIP INFORMATION

Table A-19 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Fire (Plan 87)

COUNTS BY AGE/SERVICE												
	Service											
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 & Up	Total			
Under 25	0	27	1	0	0	0	0	0	28			
25 to 29	0	159	34	4	0	0	0	0	197			
30 to 34	0	106	124	21	1	0	0	0	252			
35 to 39	0	49	127	115	23	3	0	0	317			
40 to 44	0	32	82	133	124	11	1	0	383			
45 to 49	0	2	30	63	120	42	1	0	258			
50 to 54	0	0	10	25	50	45	2	0	132			
55 to 59	0	0	6	6	7	14	0	1	34			
60 to 64	0	0	0	3	0	0	0	0	3			
65 & up	0	0	0	0	0	0	0	0	0			
Total	0	375	414	370	325	115	4	1	1,604			

COUNTS BY AGE/SERVICE

Table A-20 Distribution of Active Participants (Excludes DROP Participants) as of July 1, 2010 -- Fire (Plan 87)

	Service													
Age	Under 1		1 to 4		5 to 9		10 to 14		15 to 19		20 to 24	25 to 29	30 & Up	Total
Under 25	\$ -	\$	52,594	\$	52,045	\$	-	\$	-	\$	-	\$ -	\$ -	\$ 52,575
25 to 29	-		53,878		58,945		53,362		-		-	-	-	54,742
30 to 34	-		54,540		61,023		60,761		57,348		-	-	-	58,260
35 to 39	-		55,180		61,638		63,576		64,178		59,036	-	-	61,502
40 to 44	-		53,437		61,016		63,553		65,042		63,836	92,145	-	62,729
45 to 49	-		55,391		62,128		61,810		65,670		67,517	77,412	-	64,582
50 to 54	-		-		61,196		63,176		64,390		65,244	60,979	-	64,158
55 to 59	-		-		61,904		63,249		65,871		65,014	-	60,834	64,207
60 to 64	-		-		-		63,029		-		-	-	-	63,029
65 & up	-		-		-		-		-		-	-	-	-
Total	\$ -	\$	54,113	\$	61,115	\$	62,960	\$	65,106	\$	65,750	\$ 72,879	\$ 60,834	\$ 61,074

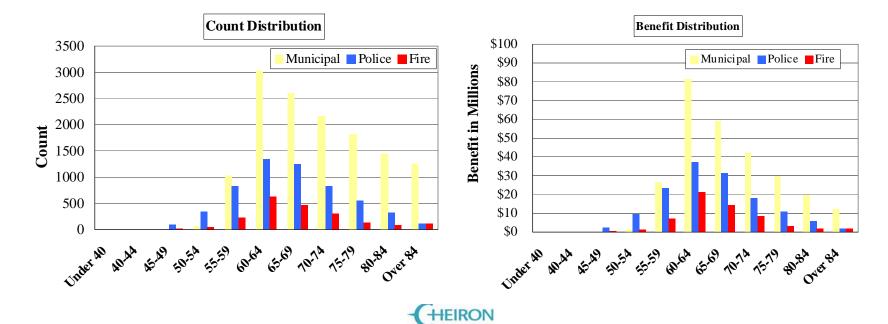
Table A-21 Reconciliation of Plan Membership											
		1967 Plan									
	Municipal	Police	Fire	Municipal	Elected	Police	Fire	Total City			
Active											
Active July 1, 2009	4,761	1,033	406	15,244	16	5,536	1,636	28,632			
New Entrants and Rehires	30	3	0	1,203	1	223	13	1,473			
Refunded Contributions	-5	0	0	-260	0	-15	-6	-286			
Terminated Vested	-87	-3	-4	-224	0	-46	-6	-370			
Became Disabled	-26	-6	0	-19	0	-26	-4	-81			
Retired	-65	-19	-5	-60	0	-14	-6	-169			
Entered DROP	-395	-117	-107	-110	0	-25	-13	-767			
Net Other Terminations	1	0	0	-448	0	-47	-10	-504			
Active July 1, 2010	4,214	891	290	15,326	17	5,586	1,604	27,928			
Retired											
Retired July 1, 2009	12,757	5,653	2,018	673	11	71	31	21,214			
New Retirees	394	63	34	105	2	19	8	625			
Net Other Terminations	-538	-155	-57	-18	-1	-5	-1	-775			
Retired July 1, 2010	12,613	5,561	1,995	760	12	85	38	21,064			
Beneficiary											
Beneficiary July 1, 2009	5,340	2,160	821	123	3	78	29	8,554			
New Beneficiaries	223	116	37	20	0	4	1	401			
Net Other Terminations	-240	-92	-62	-3	0	0	0	-397			
Beneficiary July 1, 2010	5,323	2,184	796	140	3	82	30	8,558			

		r	Table A-21 (c	ontinued)							
				an Membershi	р						
1967 PlanPlan 87											
	Municipal	Police	Fire	Municipal	Elected	Police	Fire	Total City			
Disabled											
Disabled July 1, 2009	1,818	1,703	399	150	0	182	36	4,288			
New Disabilities	36	8	2	33	0	42	5	126			
Net Other Terminations	-70	-51	-12	0	0	-1	0	-134			
Disabled July 1, 2010	1,784	1,660	389	183	0	223	41	4,280			
Terminated Vested											
Terminated Vested July 1, 2009	627	1	0	584	0	98	26	1,336			
New Vested Terminations	92	3	4	232	0	51	6	388			
Net Other Terminations	-88	0	0	-28	0	-6	-3	-125			
Terminated Vested July 1, 2010	631	4	4	788	0	143	29	1,599			
DROP											
DROP July 1, 2009	1,064	208	157	158	10	24	17	1,638			
New DROP Participants	395	117	109	110	0	25	13	769			
Net Other Terminations	-279	-32	-30	-41	-2	-3	-2	-389			
DROP July 1, 2010	1,180	293	236	227	8	46	28	2,018			

APPENDIX A MEMBERSHIP INFORMATION

	Γ	Municipal		Police		Fire			
Age	Count	Annual Pensions	Count	Annual Pensions	Count	Annual Pensions			
Under 40	-	\$ -	-	\$ -	-	\$ -			
40-44	-	-	7	87,704	1	7,300			
45-49	-	-	99	2,449,318	24	491,724			
50-54	65	1,276,898	345	9,444,164	56	1,456,947			
55-59	1,031	26,322,228	824	23,323,782	225	7,246,590			
60-64	3,019	81,280,226	1,335	37,126,385	626	21,305,934			
65-69	2,591	58,987,103	1,240	31,577,419	465	14,313,478			
70-74	2,153	42,319,545	825	18,043,014	299	8,386,399			
75-79	1,819	29,522,904	542	10,544,972	137	3,082,084			
80-84	1,445	19,935,850	321	6,032,622	86	1,628,099			
Over 84	1,262	11,951,402	108	1,923,964	114	1,847,563			
Total	13,385	\$ 271,596,156	5,646	\$ 140,553,344	2,033	\$ 59,766,118			

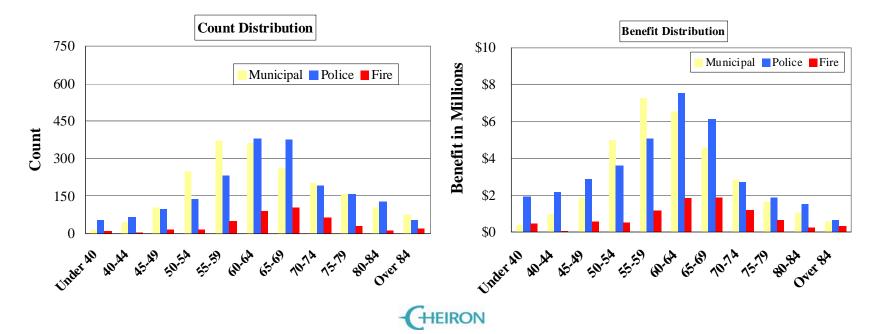
Table A-22Age Distribution of Retired Members as of July 1, 2010



APPENDIX A MEMBERSHIP INFORMATION

Table A-23Age Distribution of Disabled Members as of July 1, 2010

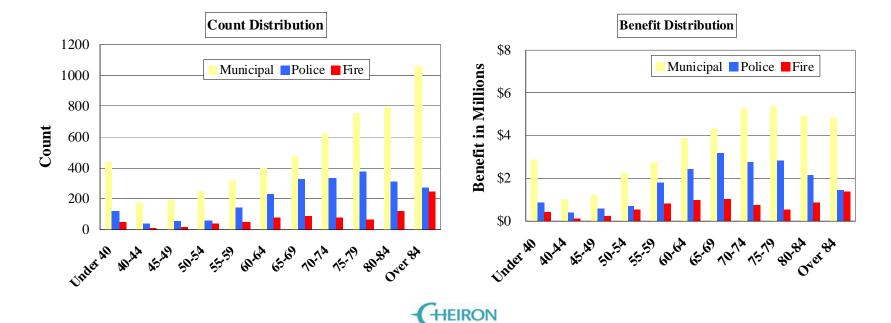
	Ν	Aunicipal		Police		Fire			
Age	Count	Annual Pensions	Count	Count Annual Pensions		Annual Pensions			
Under 40	19	\$ 395,965	56	\$ 1,953,690	12	\$ 494,757			
40-44	47	953,650	67	2,184,537	3	56,455			
45-49	105	1,897,907	97	2,908,354	19	583,270			
50-54	250	4,985,899	138	3,615,936	17	502,935			
55-59	375	7,251,286	233	5,067,802	51	1,171,983			
60-64	363	6,538,549	381	7,556,237	90	1,839,337			
65-69	263	4,592,789	378	6,138,299	105	1,897,635			
70-74	202	2,832,699	192	2,705,455	64	1,214,787			
75-79	160	1,677,420	157	1,886,080	32	643,128			
80-84	106	1,059,672	129	1,509,444	15	247,196			
Over 84	77	564,481	55	659,149	22	323,781			
Total	1,967	\$ 32,750,317	1,883	\$ 36,184,983	430	\$ 8,975,264			



APPENDIX A MEMBERSHIP INFORMATION

	Ν	Municipal			Poli	ice	Fire				
Age	Count	Ann	ual Pensions	Count	Ar	nual Pensions	Count	Am	nual Pensions		
Under 40	438	\$	2,881,654	121	\$	863,124	48	\$	421,094		
40-44	174		1,023,653	38		394,954	12		114,494		
45-49	191		1,217,918	52		588,017	17		230,462		
50-54	251		2,238,420	61		692,976	36		552,901		
55-59	315		2,744,685	140		1,787,495	48		805,231		
60-64	397		3,888,489	229		2,439,462	76		980,900		
65-69	475		4,321,505	327		3,166,925	87		1,015,463		
70-74	624		5,243,893	335		2,740,462	75		751,515		
75-79	752		5,383,539	375		2,825,122	66		531,673		
80-84	791		4,912,105	313		2,163,093	118		838,937		
Over 84	1,058		4,839,605	275		1,435,213	243		1,380,198		
Total	5,466	\$	38,695,466	2,266	\$	19,096,843	826	\$	7,622,868		

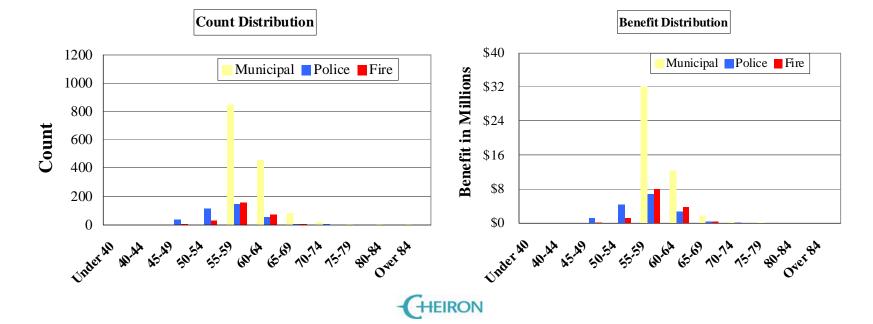
Table A-24Age Distribution of Beneficiaries as of July 1, 2010



APPENDIX A MEMBERSHIP INFORMATION

Table A-25Age Distribution of DROP Participants as of July 1, 2010

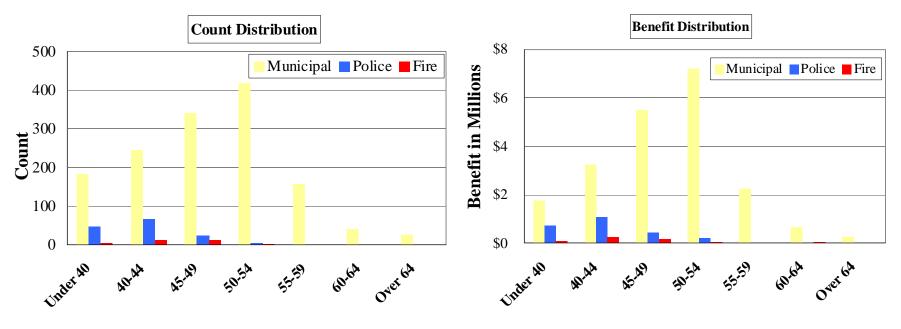
	N	<i>A</i> unicipal		Police		Fire
Age	Count	Annual Pensions	Count	Annual Pensions	Count	Annual Pensions
Under 40	-	\$ -	-	\$ -	-	\$ -
40-44	-	-	-	-	-	-
45-49	-	-	31	1,182,430	3	145,136
50-54	-	-	111	4,374,968	30	1,204,095
55-59	853	32,127,756	141	6,698,163	156	7,914,388
60-64	457	12,466,777	49	2,731,457	69	3,787,800
65-69	84	1,741,666	6	371,936	6	242,852
70-74	15	395,872	1	59,100	-	-
75-79	3	166,862	-	-	-	-
80-84	1	1,908	-	-	-	-
Over 84	2	32,808		<u> </u>		
Total	1,415	\$ 46,933,649	339	\$ 15,418,054	264	\$ 13,294,271



APPENDIX A MEMBERSHIP INFORMATION

Table A-26Age Distribution of Terminated Vested Members as of July 1, 2010

	Ν	Aunio	cipal		Polie	ce		Fire				
Age	Count	An	nual Pensions	Count	Anı	nual Pensions	Count	Ann	ual Pensions			
Under 40	185	\$	1,762,354	49	\$	749,529	6	\$	88,143			
40-44	247		3,244,664	66		1,075,160	12		241,302			
45-49	341		5,476,676	25		428,035	12		171,701			
50-54	419		7,175,958	6		199,280	2		67,180			
55-59	158		2,259,339	1		14,160	-		-			
60-64	41		646,581	-		-	1		59,090			
Over 64	28		275,285			_			_			
Total	1,419	\$	20,840,857	147	\$	2,466,164	33	\$	627,415			



APPENDIX B SUPPORTING TABLES FOR CITY'S FUNDING POLICY

Appendix B provides supporting information on the amortization payments under the City's Funding Policy by each plan.

Development of the	Table B-1a Development of the Fiscal Year 2012 Amortization Payment under the City's Funding Policy								
Development of the	e risca			n - Municipal	nt under th	eC	ity's running r	onc	y
				nousands)					
		7/1/2010		7/1/2011	Remaining		2012 Payment		2012 Payment
	Outs	tanding Balance	Ex	pected Balance	Years	Beg	ginning-of-Year	I	End-of-Year
1. Expected Unfunded Actuarial									
Liability (UAL) as of July 1, 2010									
Based on July 1, 2009 Valuation									
a. Remaining	\$	2,460,218	\$	2,336,135		\$	300,856	\$	325,376
2. Changes in UAL due to									
a. Actuarial Experience	\$	(6,893)	\$	(7,455)	20	\$	(710)	\$	(768)
b. Assumption Changes		101,919		110,226	15		12,016		12,996
c. Active Plan Changes		-		-	10		-		-
d. Inactive Plan Changes		-		-	1		-		-
e. Subtotal	\$	95,026	\$	102,771		\$	11,307	\$	12,228
3. Total [1c. + 2e.]	\$	2,555,245	\$	2,438,906		\$	312,162	\$	337,604



Table B-1b Development of the Fiscal Year 2012 Amortization Payment under the City's Funding Policy 1967 Plan - Police									
			(\$ th	ousands)					
	Outst	7/1/2010 anding Balance	Ex	7/1/2011 pected Balance	Remaining Years		2012 Payment inning-of-Year		2012 Payment End-of-Year
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation a. Remaining 	\$	1,305,285	\$	1,226,871		\$	172,117	\$	186,145
 2. Changes in UAL due to a. Actuarial Experience b. Assumption Changes c. Active Plan Changes d. Inactive Plan Changes 	\$	11,006 87,273 -	\$	11,904 94,386 - -	20 15 10 1	\$	1,134 10,290 -	\$	1,226 11,128 - -
e. Subtotal 3. Total [1c. + 2e.]	\$ \$	98,280 1,403,564	\$ \$	106,289 1,333,160		\$ \$	11,423 183,540	\$ \$	12,354 198,499

Table B-1c Development of the Fiscal Year 2012 Amortization Payment under the City's Funding Policy 1967 Plan - Fire									
			(\$ th	ousands)					
		7/1/2010 nding Balance	Exp	7/1/2011 Dected Balance	Remaining Years		2012 Payment inning-of-Year		2012 Payment End-of-Year
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation a. Remaining 	\$	527,869	\$	501,492		\$	64,990	\$	70,287
 Changes in UAL due to Actuarial Experience Assumption Changes Active Plan Changes Inactive Plan Changes 	\$	10,439 43,972 -	\$	11,290 47,555 -	20 15 10 1	\$	1,075 5,184 -	\$	1,163 5,607
e. Subtotal	\$	54,411	\$	58,845		\$	6,259	\$	6,770
3. Total [1c. + 2e.]	\$	582,280	\$	560,337		\$	71,250	\$	77,056

Development of the	Table B-1d Development of the Fiscal Year 2012 Amortization Payment under the City's Funding Policy Plan 87 - Municipal								
				ousands)					
		7/1/2010 nding Balance	Exp	7/1/2011 Dected Balance	Remaining Years		2012 Payment inning-of-Year		2012 Payment End-of-Year
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation a. Remaining 	\$	252,633	\$	247,395		\$	23,816	\$	25,757
 Changes in UAL due to Actuarial Experience Assumption Changes Active Plan Changes Inactive Plan Changes 	\$	(29,592) (16,906) -		(32,004) (18,284) -		\$	(3,048) (1,993) -		(3,296) (2,156)
e. Subtotal	\$	(46,498)	\$	(50,287)		\$	(5,041)	\$	(5,452)
3. Total [1c. + 2e.]	\$	206,135	\$	197,108		\$	18,775	\$	20,306

Table B-1e Development of the Fiscal Year 2012 Amortization Payment under the City's Funding Policy Plan 87 - Elected									
			(\$ thou	(sands)					
	7/1/2 Outstanding			//1/2011 cted Balance	Remaining Years		2012 Payment nning-of-Year		2012 Payment End-of-Year
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation a. Remaining 	\$	9,648	\$	9,485		\$	893	\$	966
 Changes in UAL due to Actuarial Experience Assumption Changes Active Plan Changes Inactive Plan Changes Subtotal 	\$	143 542 - 685	\$ \$	155 586 - - 740	20 15 10 1	\$	15 64 - - 79	\$ \$	16 69 - - 85
3. Total [1c. + 2e.]	\$	10,332	\$	10,226		\$	972	\$	1,051

Table B-1f Development of the Fiscal Year 2012 Amortization Payment under the City's Funding Policy Plan 87 - Police									
			(\$ th	ousands)					
		//1/2010 nding Balance	Exp	7/1/2011 ected Balance	Remaining Years		2012 Payment inning-of-Year		2012 Payment End-of-Year
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation a. Remaining 	\$	222,808	\$	219,353		\$	20,014	\$	21,645
 Changes in UAL due to Actuarial Experience Assumption Changes Active Plan Changes Inactive Plan Changes 	\$	(36,147) (52,944) -	\$	(39,093) (57,259) -		\$	(3,723) (6,242) -	\$	(4,026) (6,751) -
e. Subtotal	\$	(89,092)	\$	(96,353)		\$	(9,965)	\$	(10,777)
3. Total [1c. + 2e.]	\$	133,717	\$	123,000		\$	10,049	\$	10,868

Table B-1g Development of the Fiscal Year 2012 Amortization Payment under the City's Funding Policy Plan 87 - Fire									
			(\$ th	ousands)					
		//1/2010 nding Balance	Exp	7/1/2011 ected Balance	Remaining Years		2012 Payment inning-of-Year		2012 Payment End-of-Year
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation a. Remaining 	\$	68,371	\$	67,293		\$	6,179	\$	6,682
 Changes in UAL due to Actuarial Experience Assumption Changes Active Plan Changes Inactive Plan Changes 	\$	(10,830) (12,643) -	\$	(11,712) (13,673) -		\$	(1,115) (1,491) -		(1,206) (1,612) -
e. Subtotal	\$	(23,472)	\$	(25,385)		\$	(2,606)	\$	(2,818)
3. Total [1c. + 2e.]	\$	44,899	\$	41,907		\$	3,573	\$	3,864

Table B-1h Development of the Fiscal Year 2012 Amortization Payment under the City's Funding Policy Total - All Divisions								
				housands)				
	Outs	7/1/2010 tanding Balance	Ex	7/1/2011 pected Balance	Remaining Years		2012 Payment ginning-of-Year	Y 2012 Payment End-of-Year
 Expected Unfunded Actuarial Liability (UAL) as of July 1, 2010 Based on July 1, 2009 Valuation a. Remaining 	\$	4,846,832	\$	4,608,025		\$	588,865	\$ 636,858
 Changes in UAL due to Actuarial Experience Assumption Changes Active Plan Changes Inactive Plan Changes 	\$	(61,873) 151,212 - -	\$	(66,916) 163,536 - -	20 15 10 1	\$	(6,372) 17,828 - -	(6,892) 19,281 -
e. Subtotal	\$	89,339	\$	96,620		\$	11,456	\$ 12,389
3. Total [1c. + 2e.]	\$	4,936,172	\$	4,704,645		\$	600,321	\$ 649,247

APPENDIX C SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

Data Assumptions and Practices

In preparing our data, we relied, without audit, on information supplied by the City of Philadelphia Municipal Retirement System staff. This information includes, but is not limited to, plan provisions, employee data, and financial information. Our methodology for obtaining the data used for the valuation is based upon the following assumptions and practices:

- We exclude raw active records with dates of hire after the valuation date.
- We include terminated vested records in the valuation data, regardless of whether they have enough service for vesting.
- We delete terminated vested and retired records with values of zero in the benefit field.
- If a participant is found in multiple data files (e.g., both the active and retired data files), based on a match of both employee number and Social Security Number, we first attempt to identify the record with the most recent status change, and keep only that record. If it is not apparent which record is the most recent, we keep the record that generates the highest liability in our valuation system.
- If a participant is found multiple times in the same data file, based on a match of both employee number and Social Security Number, we keep the record that generates the highest liability in our valuation system.
- Valuation pay reflects a load of 4% of pay for police (stress pay) and firefighters (premium pay).
- The date of retirement for a terminated vested participant was set to the valuation date, if the given date was earlier.
- If the payment form field for pensioners is missing, we assume that 1967 Plan members receive a 50% J&S annuity with a return of contributions in excess of payments received upon death of the member, and we assume that Plan 87 members receive a life annuity, also with a return of contributions. However, if the pensioner is a beneficiary or survivor, we assume that they receive a life annuity only.
- For pensioners under the form of payment 50% J&S annuity with return of contributions, 60% are assumed to be married based upon data provided by the City. All other forms of payments are explicitly valued.
- Records with missing dates of birth have their data filled in based on the average for their plan.



APPENDIX C SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

- We assumed that all changes in participant data from last year to this year were valid unless indicated otherwise by System staff.
- DROP participants are assumed to begin payments immediately.
- Service-connected disability benefits are increased by 2.9%.
- For Municipal Plan 1967 participants, pay was assumed to be below the Social Security Taxable Wage Base for purposes of determining the aggregate member contribution amount.
- We assumed that any participant who was active last year, missing this year, and fully vested became terminated vested with total credited service equal to credited service from last year plus one and final pay equal to pay from last year increased by the salary scale assumption.
- We assumed that any participant who was active last year, missing this year, and not fully vested became a terminated non-vested participant.
- We assumed that any participant who was inactive last year and missing from this year without a clear reason is now deceased.



APPENDIX C SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

A. Actuarial Assumptions

1. Investment Return Assumption

8.15% compounded annually, net of expenses.

2. Salary Increase Rate

	All Divisions
Age	
<20	21.00%
20-24	12.50%
25-29	7.75%
30-34	5.50%
35-39	4.75%
40-44	4.50%
45-49	3.75%
50-54	3.75%
55-59	3.75%
60-64	3.75%
65+	3.75%

3. Total Annual Payroll Growth

3.5% per year.

4. Administrative Expenses

Annual expected expenses included in this report are \$8,000,000, increasing by 3.5% per year.



APPENDIX C SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

5. Rates of Termination

	1967 Plan			Plan 87	
	Mun	icipal	Uniformed	Municipal and Elected Officials	Uniformed
Age	Male	Female	Unisex	Unisex	Unisex
20	0.100000	0.105319	0.030000	0.260000	0.030000
25	0.086000	0.096000	0.037800	0.150000	0.037800
30	0.072000	0.071562	0.029900	0.105000	0.029900
35	0.045000	0.056170	0.025200	0.090000	0.025200
40	0.035000	0.039379	0.015400	0.090000	0.015400
45	0.030000	0.035597	0.010000	0.075000	0.010000
50	0.020000	0.022400	0.001600	0.065000	0.001600
55	0.000000	0.000000	0.001600	0.050000	0.001600

We assume that a vested employee who terminates will elect a pension deferred to service retirement age as long as their age plus years of service at termination are greater than or equal to 55 (45 for police and fire employees in the 1967 Plan). Otherwise we assume they elect a refund of member contributions.

6. Rates of Disability

	Municipal and Elected Officials		Uniformed	
Age	Male	Female	Unisex	
20	0.000025	0.000043	0.000795	
25	0.000070	0.000061	0.000870	
30	0.000557	0.000263	0.001668	
35	0.001514	0.000620	0.002918	
40	0.001800	0.001314	0.003184	
45	0.003840	0.002359	0.003334	
50	0.007600	0.004285	0.002654	
55	0.008680	0.007088	0.000000	

For municipal and elected members, we assume that 70% of all disabilities are ordinary and 30% are service-connected. For police and fire members, we assume that 50% are ordinary and 50% are service-connected.



APPENDIX C SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

7. Rates of Pre-Retirement Mortality (RP 2000 with 5 year set back for Municipal females, 3 year set forward for Police and Fire females, no adjustment for males)

	Municipal and Elected Officials		Uniformed	
Age	Male	Female	Male	Female
20	0.000345	0.000170	0.000345	0.000197
25	0.000376	0.000191	0.000376	0.000235
30	0.000444	0.000207	0.000444	0.000394
35	0.000773	0.000264	0.000773	0.000598
40	0.001079	0.000475	0.001079	0.000937
45	0.001508	0.000706	0.001508	0.001434
50	0.002138	0.001124	0.002138	0.002207
55	0.003624	0.001676	0.003624	0.003923
60	0.006747	0.002717	0.006747	0.007648
65	0.012737	0.005055	0.012737	0.013445

For municipal and elected members, we assume that 98.5% of all deaths are ordinary, with 1.5% service-connected. For police and fire members, 92% are assumed to be ordinary and 8% service-connected.

8. Rates of Post-Retirement Mortality

For Police and Fire, we assume that mortality for healthy inactive lives will follow RP 2000 with a 1 year set forward for males and a 2 year set forward for females. For Municipal and Elected officials, we assume that mortality for healthy inactive lives will follow RP 2000 with a 2 year set forward for both males and females.

9. Rates of Post-Disability Mortality

For Police and Fire, we assume that mortality for disabled retirees follows RP 2000 Healthy mortality with a 30% upwards adjustment. For Municipal and Elected officials, we assume that mortality for disabled retirees follows RP 2000 Disabled mortality with a 5% downward adjustment.



APPENDIX C SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

Rates of Retirement

Rates of Service Retirement - 1967 Plan				
	Municipal	Uniformed		
Age				
45-54	-	0.07		
55	0.40	0.20		
56	0.21	0.20		
57-59	0.16	0.20		
60	0.20	0.20		
61	0.20	0.25		
62	0.35	0.25		
63-69	0.20	0.25		
70 and up	1.00	1.00		

Rates of Service Retirement - Plan 87					
	Municipal and I	Elected Officials	Uniformed		
Age	First Year Eligible	Subsequent Years	First Year Eligible	Subsequent Years	
40-51	_	-	0.200	0.075	
52	0.450	0.060	0.200	0.090	
53	0.420	0.060	0.200	0.100	
54	0.390	0.060	0.200	0.120	
55	0.360	0.060	0.200	0.140	
56	0.330	0.060	0.200	0.165	
57	0.300	0.060	0.200	0.175	
58	0.300	0.060	0.200	0.175	
59	0.300	0.080	0.200	0.180	
60	0.300	0.100	0.200	0.180	
61	0.350	0.150	0.200	0.195	
62	0.430	0.300	0.200	0.245	
63	0.500	0.187	0.200	0.215	
64	0.500	0.199	0.200	0.210	
65	0.600	0.309	0.200	1.000	
66	0.600	0.232	-	-	
67	0.600	0.214	-	-	
68	0.600	0.214	-	-	
69	0.600	0.238	-	-	
70	0.600	1.000	-	-	



APPENDIX C SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

10. Family Composition Assumptions

70% of active members and 60% of non-active members are assumed to be married for retirees with the 50% J&S with return on contribution form of payment only. Male spouses are assumed to be four years older than female spouses.

11. Changes Since Last Valuation

- The interest rate assumption decreased from 8.25% to 8.15%.
- The salary increase rate was changed from 5% per year to a new age based scale.
- The total payroll growth rate changed from 4.0% to 3.5% per year.
- Rates of termination for Uniformed Plan 67 were changed to better reflect experience.
- Rates of disability for Uniformed Plans were changed to better reflect experience.
- All rates of retirement except those for Municipal Plan 87 were changed to better reflect experience.
- Mortality rates for all plans, both pre and post-retirement, were changed from the 1994 GAM table to the RP-2000 based table.
- Post-Disabled mortality for all plans also was changed from 1994 GAM to RP-2000 table.



APPENDIX C SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

B. Actuarial Methods

1. Actuarial Funding Method

The Entry Age Normal actuarial funding method was used for active employees, whereby the normal cost is computed as the level annual percentage of pay required to fund the retirement benefits between each member's date of hire and assumed retirement. The actuarial liability is the difference between the present value of future benefits and the present value of future normal cost. The unfunded actuarial liability is the difference between the actuarial liability and the actuarial value of assets.

2. Funding Methods

City's Funding Policy:

The initial July 1, 1985 UAL is amortized over 34 years ending June 30, 2019, with payments increasing at 4% per year, the assumed payroll growth. Other changes in the actuarial liability are amortized in level-dollar payments as follows:

- Actuarial gains and losses 20 years beginning July 1, 2009. Prior to July 1, 2009, gains and losses were amortized over 15 years
- Assumption changes 20 years
- Plan changes for active members 20 years
- Plan changes for inactive members 10 years

MMO:

For the purposes of the MMO under Act 205 reflecting the fresh start amortization schedule, the July 1, 2009 UAL was "fresh started" to be amortized over 30 years ending June 30, 2039. This is a level dollar amortization of the UAL. All future amortization periods will follow the City's Funding Policy as outlined above. The future MMO will include the interest payments of any deferred contribution amounts.

3. Asset Valuation Method

The actuarial value of assets (AVA) is determined using an adjusted market value. Under this method, a preliminary AVA is determined as the market value of assets on the valuation date, minus the existing balance of the Pension Adjustment Fund (PAF) rolled forward at the current year's market rate of return, minus a decreasing fraction (4/5, 3/5, 2/5, 1/5) of the investment gain or loss in each of the preceding four years for gains and losses prior to July 1, 2009. Beginning July 1, 2009, investment gains and losses are recognized over a ten year period prospectively, creating the decreasing faction to be (9/10, 8/10, 7/10, etc). The gain or loss for a given year is the difference between the actual investment return (on a market-to-market basis) and the assumed investment return based on the market value of assets at the beginning of the year and actual cash flow. The AVA is adjusted, if necessary, to remain between 80% and 120% of the market value net of the PAF. The final AVA is determined by subtracting the additional transfer amount (if any) to the PAF. The additional transfer amount to the PAF remains to be calculated based on the five year method.



APPENDIX C SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

4. Changes Since Last Valuation

None.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1967 PLAN

This summary of plan provisions provides an overview of the major provisions of the pension plans used in the actuarial valuation. It is not intended to replace the more precise language of the retirement code, and if there is any difference between the description of the plans herein and the actual text of the retirement code, the retirement code will govern.

1. Participation

Municipal (Plan J):

Full-time employees participate on their date of employment. Temporary employees participate after completing six months employment. Participation is limited to employees hired before January 8, 1987. District Council 47 (Local 2186 or 2187) and 33 members hired between January 8, 1987 and October 1, 1992 were switched from Plan 87 to 1967 Plan effective on their hire dates, provided such employees contributed the difference between what they paid to the Plan and the amount they would have paid under Plan J.

Uniformed (Plans D and X): Same as municipal.

2. Credited Service

Municipal (Plan J):

Credited service means the period of employment with the City during which the employee makes contributions to the Retirement System. Certain leaves of absence may also be credited.

Uniformed (Plans D and X): Same as municipal.

3. Total Compensation

Municipal (Plan J):

Total compensation means the base rate of pay, longevity payments, and overtime received during a 12-month period.

Uniformed (Plans D and X):

Total compensation means the base rate of pay, longevity payments, and stress or premium pay (up to 4% of base pay) received during a 12-month period.

4. Final Compensation

Municipal (Plan J):

Final compensation means whichever is greater: annual base rate of pay at the time of termination or the total compensation received during the 12 months immediately preceding



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1967 PLAN

termination, including supplementary compensation received under Civil Service Regulation No. 32.

Uniformed (Plans D and X): Same as municipal.

5. Average Final Compensation

Municipal (Plan J):

Average final compensation means the arithmetic average of the total compensation received during the three calendar or anniversary years that produce the highest average.

Uniformed (Plans D and X):

Average final compensation means the highest of:

- The total compensation received during the 12-month period; or
- The annual base rate of pay, excluding longevity payments, calculated from the final pay period; or
- The arithmetic average of the total compensation received during five calendar years of employment.

6. Employee Contributions

Municipal (Plan J):

Each employee who participates in the Social Security System contributes 3 3/4% of total compensation up to the taxable wage base (\$106,800 in 2009 and 2010) and 6% of total compensation above the taxable wage base to the Retirement System.

Each employee who does not participate in the Social Security System contributes 6% of his total compensation to the Retirement System.

Uniformed (Plans D and X): 6% of total compensation to the Retirement System.

7. Service Retirement

Eligibility

Municipal (Plan J):

Each municipal employee is eligible to retire and receive a service pension at age 55 with one year of service.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1967 PLAN

Uniformed (Plans D and X):

Each uniformed employee is eligible to retire and receive a service pension at age 45.

Benefit Amount

Municipal (Plan J):

The service pension equals 2 1/2% of the employee's average final compensation multiplied by credited service to a maximum of 20 years plus 2% of the employee's average final compensation multiplied by credited service above 20, to a maximum of 80% of the employee's average final compensation.

Uniformed (Plans D and X):

The service pension equals 2 1/2% of the employee's average final compensation multiplied by credited service, subject to a maximum of 100% of average final compensation.

8. Early Retirement

Eligibility

Municipal (Plan J):

Each municipal employee is eligible to retire and receive a reduced service pension at age 52 if he has 10 or more years of credited service.

Uniformed (Plans D and X):

Each uniformed employee is eligible to retire and receive a reduced service pension at age 40 if he or she has 10 or more years of credited service.

Benefit Amount

Municipal (Plan J):

The annual amount is calculated the same as service retirement, reduced by 1/2 of 1% for each month the employee is younger than minimum retirement age.

Uniformed (Plans D and X): Same as municipal.

9. Deferred Vested Retirement

Eligibility

Municipal (Plan J):

A terminating employee who has completed 10 or more years of credited service is eligible for a deferred vested retirement benefit.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1967 PLAN

Uniformed (Plans D and X): Same as municipal.

Benefit Amount

Municipal (Plan J):

The annual deferred vested benefit is determined the same as service pensions, using average final compensation and credited service at termination. This benefit begins at service retirement date. If the member dies before the deferred vested benefit begins, an ordinary death benefit is payable (see Ordinary Death below). As an alternative before benefits begin, a plan member who is terminating employment may ask to have employee contributions returned (without interest) instead of receiving the deferred vested benefit.

Uniformed (Plans D and X): Same as municipal.

10. Withdrawal Benefit

Municipal (Plan J):

Each employee terminating who has completed less than 10 years of credited service will receive a withdrawal benefit equal to his or her employee contributions (without interest).

Uniformed (Plans D and X): Same as municipal.

11. Service-Connected Death

<u>Eligibility</u>

Municipal (Plan J):

The beneficiary of each active employee who dies solely from the performance of duties of the employee's position with the City is eligible for an immediate death benefit.

Uniformed (Plans D and X): Same as municipal.

Benefit Amount

Municipal (Plan J):

The death benefit equals total employee contributions paid to the Retirement System, plus a yearly payment of 60% of the employee's final compensation reduced by any death benefits payable under the Worker's Compensation Act.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1967 PLAN

This benefit is payable to the spouse until his or her death. Dependent children are entitled to an additional yearly payment of 10% of final compensation for each dependent child (up to two children) until the child reaches age 18. If there is no spouse, or if the spouse dies or remarries, each dependent child (up to three children) is entitled to receive a yearly payment of 25% of final compensation until the child reaches age 18.

If there are no spouse or dependent children, each dependent parent is entitled to receive a yearly payment of 15% of final compensation for life.

Uniformed (Plans D and X): Same as municipal.

12. Ordinary Death

Eligibility

Municipal (Plan J):

The beneficiary of an active employee (or a terminated vested employee who did not withdraw employee contributions) who dies after completing 10 years of credited service or reaches age 55 is eligible for an immediate death benefit equal to a yearly pension or a lump sum payment. The beneficiary of an active employee who dies before completing 10 years of credited service and reaches age 55 is eligible for a lump sum payment.

The beneficiary may be any relative by blood or marriage.

Uniformed (Plans D and X):

The beneficiary of any employee who dies while actively employed (or a terminated vested employee who did not withdraw employee contributions) is eligible for a death benefit equal to a yearly pension or a lump sum payment.

The beneficiary may be any relative by blood or marriage.

Annual Pension

Municipal (Plan J):

The annual ordinary death pension, payable for life, is equal to the regular service pension the employee would have received if eligible to retire on the day before he died and had elected Option 2, joint and 100% contingent annuitant (see Survivor Benefits below).

Uniformed (Plans D and X):

The annual ordinary death pension, payable for life, is equal to the regular service pension the employee would have received (based on a minimum of 10 years of service) had the person been eligible to retire on the day before dying and had elected Option 2, joint and 100% contingent annuitant (see Survivor Benefits below).



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1967 PLAN

Lump Sum Payment

Municipal (Plan J):

The lump sum payment is equal to 10% of the deceased employee's average final compensation multiplied by years of credited service to a maximum of 10, plus the deceased employee's contributions to the Retirement System, minus the total amount of the deceased employee's City-paid life insurance.

Uniformed (Plans D and X): Same as municipal.

13. Service-Connected Disability

Eligibility

Municipal (Plan J):

An active employee found by the Board of Pensions and Retirement to be mentally or physically permanently incapacitated (unable to perform duties) solely as the result of accident or injury during the performance of duties is eligible for an immediate service-connected disability pension.

Uniformed (Plans D and X): Same as municipal.

Benefit Amount

Municipal (Plan J):

The service-connected disability benefit is equal to the employee's Retirement System contributions, plus a yearly benefit of 70% of the employee's final compensation, reduced by any disability benefits payable under the Worker's Compensation Act. If he or she withdraws contributions, the benefit is payable for his or her lifetime only.

If the employee leaves employee contributions with the Retirement System, he or she may choose a survivor benefit option (see Survivor Benefit below) and the beneficiary will continue receiving benefit payments after his or her death.

Uniformed (Plans D and X): Same as municipal.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1967 PLAN

14. Service-Connected Disability Periodic Adjustment

Eligibility

Municipal (Plan J):

An employee who is receiving a service-connected disability benefit who is totally disabled and does not collect Social Security disability insurance benefits is eligible for a periodic adjustment.

Uniformed (Plans D and X):

Same as municipal, but only applies to police employees.

Benefit Amount

Municipal (Plan J):

The disabled employee's pension will be increased in the eighth year after separation by the percentage raise given in the previous year to active employees in his or her job class. The adjustment will continue each year thereafter until the employee's 65th birthday.

Uniformed (Plans D and X): Same as municipal.

15. Ordinary Disability

<u>Eligibility</u>

Municipal (Plan J):

An active employee found by the Board to be mentally or physically permanently incapacitated from the further performance of duties due to an accident or illness not caused by the performance of duties is eligible for an immediate ordinary disability benefit after completing 10 years of credited service.

Uniformed (Plans D and X):

Same as municipal, except that fire employees only need five years of credited service and police employees have no service requirement if the disability is permanent and total. Police employees with permanent and partial disability need 10 years of credited service.

Benefit Amount

Municipal (Plan J):

The annual ordinary disability benefit is equal to the benefit determined under the service pension formula using average final compensation and credited service as of the date of disablement. If the employee is eligible for, or receiving workers' compensation, no benefit is payable. Such employee may apply for benefits at retirement age.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1967 PLAN

Uniformed (Plans D and X):

Same as municipal, except police employees that have no service requirement are credited with a minimum of 10 years of credited service. Same as municipal.

16. Survivor Benefit

Municipal (Plan J):

Service pensions, deferred vested benefits, service-connected disability benefits (if employee contributions are left on deposit), and ordinary disability benefits are payable under four optional forms. Options 1, 2, and 3 provide benefits actuarially equivalent to a lifetime only pension while Option 4 has no reduction.

Option 1 - A benefit is payable to the employee with the provision that upon death, the beneficiary will receive a lump sum equal to the excess, if any, of the employee's contributions over the sum of the payments received.

Option 2 - A reduced benefit payable to the employee with the provision that 100% of the reduced benefit will be paid to the designated beneficiary for life after the death of the employee.

Option 3 – Same as Option 2 except only 50% of the reduced benefit is continued to the designated beneficiary.

Option 4 – Upon the employee's death, 50% of the benefit will continue to be paid to the surviving spouse for life, provided the employee and spouse were married for two years before retirement and at death. If there is no eligible spouse at the time the employee dies, or the spouse dies before the full amount of the contributions have been returned, 50% of the benefit is continued to dependent children until age 18, or if no dependent children, payments are given to dependent parents for the remainder of their lives. In addition, Option 4 provides for a guaranteed return of employee contributions as described in Option 1 above.

Uniformed (Plans D and X): Same as municipal.

17. Minimum Pension

Municipal (Plan J):

The monthly minimum pension to a pensioner is equal to \$25 multiplied by the number of the pensioner's completed years of credited service, to a 10 year maximum.

Uniformed (Plans D and X):

The monthly minimum pension to pensioners is \$500. The monthly minimum pension to all other pensioners is \$440 providing such pension will increase to \$500 at the time the pensioner reaches age 60.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1967 PLAN

18. Waiver of Benefit

Municipal (Plan J):

Any employee at service retirement age with less than three but more than one year of credited service, may waive the right to receive a monthly benefit and in lieu thereof, receive a lump sum payment of twice his or her employee contributions without interest.

Uniformed (Plans D and X): Same as municipal.

19. Service-Connected Health Care Benefit

Municipal (Plan J): Not applicable.

Uniformed (Plans D and X):

If a uniformed employee dies during the performance of duties, a service-connected health care benefit may be payable to the surviving spouse and dependent children. Regular payments will be made of the appropriate cost of maintaining medical, dental, optical, and prescription drug benefits that were in force at the time of the employee's death. Payments to the spouse cease upon remarriage and to dependent children at age 18 (age 22 if full-time student) or, if dependent due to physical or mental infirmity, the duration of the infirmity. The health care benefits are not paid from the pension trust assets.

20. Deferred Retirement Option Plan (DROP)

Municipal (Plan J):

Employees that have ten years of service and reached the minimum retirement age may elect to participate in the DROP. During this time, their accrued benefit will go into a DROP account and will earn interest at a specified rate (4.5% as of July 1, 2007). The benefit is calculated as of the date they entered the DROP. At the end of the DROP, the employees' accrued monthly benefit will commence, plus they will receive the accumulated amount of the accrued benefit paid to the DROP, as well as the interest earned on such benefit.

Uniformed (Plans D and X): Same as municipal.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

1. Participation

Municipal:

Full-time employees participate on their date of employment. Temporary employees participate after completing six months of employment. Participation is limited to employees hired on or after January 8, 1987. Any member of the 1967 Plan may irrevocably elect to participate in Plan 87.

Uniformed (Plans A and B):

Same as municipal except for Police employees hired after January 1, 2010 must make an election to participate in Plan B.

Elected:

Any City employee on or after January 8, 1987, in any general, municipal, or special election, participates in this Plan.

2. Credited Service

Municipal:

Credited service means the period of employment with the City during which the employee makes contributions to the Retirement System. Certain leaves of absence may also be credited.

Uniformed (Plans A and B): Same as municipal.

Elected: Same as municipal.

3. Total Compensation

Municipal:

Total compensation means the base rate of pay, overtime, and longevity payments received during a 12-month period.

Uniformed (Plans A and B):

Total compensation means the base rate of pay, longevity payments, and stress or premium pay (up to 4% of base pay) received during a 12-month period.

Elected:

Total compensation means the base rate of pay and longevity payments received during a 12-month period.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

4. Final Compensation

Municipal:

Final compensation means whichever is greater: annual base rate of pay at the time of termination or the total compensation received during the 12 months immediately preceding termination, including supplementary compensation received under Civil Service Regulation No. 32.

Uniformed (Plans A and B): Same as municipal.

Elected: Same as municipal.

5. Average Final Compensation

Municipal:

Average final compensation means the arithmetic average of the total compensation received during the three calendar or anniversary years producing the highest average.

Uniformed (Plans A and B):

Average final compensation means the arithmetic average of the total compensation received during the two calendar or anniversary years producing the highest average.

Elected: Same as municipal.

6. Employee Contributions

Municipal:

Total employee contributions equal 30% of the gross normal cost for all members in the municipal division. Exempt and non-represented employees hired after January 13, 1999 (and current employees as of January 13, 1999 that elect to do so) will contribute an additional amount to become vested in five years.

Uniformed (Plans A and B):

Total employee contributions equal 5% of total compensation, but not less than 30% or greater than 50% of gross normal cost for members in the uniformed division. Police Employees hired after January 1, 2010 will contribute 6% of total compensation. Exempt and non-represented employees hired after January 13, 1999 (and current employees as of January 13, 1999 that elect to do so) will contribute an additional amount to become vested in five years.

Elected:

Total employee contributions equal 30% of the gross normal cost for all members in the elected division calculated under the municipal plan plus 100% of the gross normal cost that exceeds the cost for the municipal plan. Employees hired after January 13, 1999 (and current



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

employees as of January 13, 1999 that elect to do so) will contribute an additional amount to become vested in the lesser of two full terms or eight years.

7. Service Retirement

Eligibility

Municipal:

Each municipal employee is eligible to retire and receive a service pension at age 60 if he or she has 10 or more years of credited service or, if the employee made additional contributions to become vested in five years, five years of credited service.

Uniformed (Plans A and B):

Each uniformed employee is eligible to retire and receive a service pension upon reaching age 50 and 10 or more years of credited service, or, if the employee made additional contributions to become vested in five years, five years of credited service.

Elected:

Each elected official is eligible to retire and receive a service pension at age 55 if he or she has 10 or more years of credited service, or, if the employee made additional contributions to become vested in the lesser or two full terms or eight years, the lesser of two full terms or eight years of credited service.

Benefit Amount

Municipal:

The service pension equals 2.2% of the employee's average final compensation multiplied by years of credited service to a maximum of 10 years, plus 2% of the employee's average final compensation multiplied by years of service over 10, subject to a maximum of 100% of average final compensation.

Uniformed (Plans A and B):

The service pension equals 2.2% of the employee's average final compensation multiplied by years of credited service to a maximum of 20 years, plus 2% of the employee's average final compensation multiplied by years of credited service over 20, subject to a maximum of 100% of average final compensation.

Elected:

The service pension equals 3.5% of the employee's average final compensation multiplied by years of credited service, subject to a maximum of 100% of average final compensation.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

8. Early Retirement

Eligibility

Municipal:

Each municipal employee is eligible to retire and receive a reduced service pension at age 52 if he has 10 or more years of credited service. As an alternative, a member is eligible if he or she has at least 33 years of credited service, regardless of age.

Uniformed (Plans A and B):

Each uniformed employee is eligible to retire and receive a reduced service pension at age 40 if he or she has 10 or more years of credited service. Alternatively, a member is eligible if he has at least 25 years of credited service, regardless of age.

Benefit Amount

Municipal:

The annual amount is calculated the same as service retirement, reduced by 1/2 of 1% for each month the employee is younger than minimum retirement age. Benefits are not reduced if the employee has 33 or more years of credited service.

Uniformed (Plans A and B):

The annual amount is calculated the same as service retirement, reduced by 1/2 of 1% for each month the employee is younger than minimum retirement age. Benefits are not reduced if the employee has 25 or more years of credited service.

Elected:

The annual amount is calculated the same as service retirement, reduced by 1/2 of 1% for each month the employee is younger than minimum retirement age.

9. Deferred Vested Retirement

Eligibility

Municipal:

An employee who terminates employment after completing 10 or more years of credited service or, if the employee made additional contributions to become vested in five years, five years of credited service, is eligible for a deferred vested retirement if his or her contributions have not been withdrawn.

Uniformed (Plans A and B): Same as municipal.

Elected:

A person terminating employment and who has completed 10 or more years of credited service, or, if the employee made additional contributions to become vested in the lesser of



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

two full terms or eight years, two full terms or eight years of credited service is eligible for a deferred vested retirement benefit provided he or she has not withdrawn contributions.

<u>Benefit</u>

Municipal:

The annual deferred vested benefit is determined the same as service pensions, based on average final compensation and credited service at termination. This benefit begins at the service retirement date. If a member dies before the deferred vested benefit begins, an ordinary death benefit is payable (see Ordinary Death below). As an alternative, the person terminating employment may request at any time before benefits begin a return of employee contributions (without interest) instead of the deferred vested benefit.

Uniformed (Plans A and B): Same as municipal.

Elected: Same as municipal.

10. Withdrawal Benefit

<u>Eligibility</u>

Municipal:

Each terminating employee who has completed fewer than 10 years of credited service (or, if the employee made additional contributions to become vested in five years, fewer than five years of credited service) will receive a withdrawal benefit equal to employee contributions (without interest).

Uniformed (Plans A and B): Same as municipal.

Elected:

Each terminating employee who completed fewer than 10 years of credited service will receive a withdrawal benefit equal to employee contributions (without interest).

11. Service Connected Death

<u>Eligibility</u>

Municipal:

The beneficiary of each active employee who dies solely from the performance of duties of the employee's position with the City is eligible for an immediate death benefit.

Uniformed (Plans A and B): Same as municipal.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

Elected: Same as municipal.

Benefit Amount

Municipal:

The death benefit equals the sum of the total employee contributions paid to the Retirement System (without interest), plus a yearly payment of 60% of the employee's final compensation reduced by any death benefits payable under the Workers' Compensation Act. This benefit is payable to the spouse until his or her death or remarriage, whichever occurs first. Dependent children are entitled to an additional 10% of final compensation yearly payment for each dependent child (up to two children) until the child reaches 18. This total benefit shall not exceed 80% of final compensation.

If there is no spouse, or if the spouse dies or remarries, each dependent child (up to three children) is eligible for a yearly payment of 25% of final compensation until the child reaches age 18. If there is no spouse or dependent children, each dependent parent is entitled to a 15% of final compensation yearly payment for life.

Uniformed (Plans A and B): Same as municipal.

Elected: Same as municipal.

12. Ordinary Death

<u>Eligibility</u>

Municipal:

The beneficiary of an active employee (or a terminated vested employee who did not withdraw his employee contributions) who dies after completing 10 years of credited service (or five years of credited service if additional contributions were made) or who has reached age 60 is eligible for an immediate death benefit equal to an annual pension or a lump sum payment, whichever the beneficiary chooses.

The beneficiary of an active employee who dies before completing 10 years of credited service (or five years of credited service if additional contributions were made) or reaching age 60 is eligible for a lump sum payment.

The beneficiary may be any relative by blood or marriage.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

Uniformed (Plans A and B):

The beneficiary of any employee who dies while actively employed (or a terminated vested employee who did not withdraw employee contributions) is eligible for a death benefit equal to an annual pension or a lump sum payment, whichever the beneficiary chooses.

The beneficiary may be any relative by blood or marriage.

Elected:

The beneficiary of an active employee (or a terminated vested employee who did not withdraw contributions) who dies after completing 10 years of credited service or reaching age 55 is eligible for an immediate death benefit equal to an annual pension or a lump sum payment, whichever the beneficiary chooses.

The beneficiary of an active employee who dies before completing 10 years of credited service or reaching age 55 is eligible for a lump sum payment.

The beneficiary may be any relative by blood or marriage.

Annual Pension

Municipal:

The annual ordinary death pension, payable for life, is equal to the regular service pension the employee would have received had he or she been eligible to retire on the day before death and had elected Option 2, joint and 100% contingent annuitant (see Survivor Benefits below).

Uniformed (Plans A and B):

The annual ordinary death pension, payable for life, is equal to the regular service pension the employee would have received (based on a minimum of 10 years of service) had he been eligible to retire on the day before death and had elected Option 2, joint and 100% contingent annuitant (see Survivor Benefits below).

Elected: Same as municipal.

Lump Sum Payment

Municipal:

The lump sum payment is equal to the deceased employee's average final compensation multiplied by years of credited service (not to exceed the service in the denominator) and divided by the number of years of credited service needed to become vested, plus the deceased employee's contribution to the Retirement System (without interest) minus the total amount of the deceased employee's life insurance which was paid by the City.

Uniformed (Plans A and B): Same as municipal.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

Elected: Same as municipal.

13. Service-Connected Disability

Eligibility

Municipal:

An active employee found by the Board of Pensions and Retirement to be mentally or physically permanently incapacitated from any further performance of duties due solely to the result of the performance of duties is eligible for an immediate service-connected disability pension. The application for benefit must be made within one year after termination of employment.

Uniformed (Plans A and B): Same as municipal.

Elected:

An active employee found by the Board of Pensions and Retirement to be mentally or physically permanently incapacitated from any further performance of duties due solely to the result of the performance of duties is eligible for an immediate service-connected disability pension.

Benefit Amount

Municipal:

The service-connected disability benefit is equal to the employee's contributions to the Retirement System, plus a yearly benefit of 70% of the employee's final compensation, reduced by any disability benefits payable under the Worker's Compensation Act.

If he or she withdraws contributions, the benefit is payable for his or her lifetime only.

If the employee leaves employee contributions with the Retirement System, he or she may choose a survivor benefit option (see Survivor benefit below) and the beneficiary will continue receiving benefit payments after his or her death.

Uniformed (Plans A and B) Same as municipal.

Elected: Same as municipal.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

14. Service-Connected Disability Periodic Adjustment

<u>Eligibility</u>

Municipal:

An employee who is receiving a service-connected disability benefit who is totally disabled and does not collect Social Security disability insurance benefits is eligible for a periodic adjustment.

Uniformed (Plans A and B): Same as municipal, but only applies to police employees.

Elected: Same as municipal.

Benefit Amount

Municipal:

The disabled employee's pension will be increased in the eighth year after separation by the percentage raise given in the previous year to active employees in his or her job class. The adjustment will continue each year until the employee's 65th birthday.

Uniformed (Plans A and B): Same as municipal.

Elected: Same as municipal.

15. Ordinary Disability

<u>Eligibility</u>

Municipal:

An active employee found by the Board to be mentally or physically permanently incapacitated from the further performance of duties due to an accident or illness not caused by the performance of duties is eligible for an immediate ordinary disability benefit provided he or she has at least 10 years of credited service (or five years of credited service, if additional contributions were made). The application for benefits must be made within one year after termination.

Uniformed (Plans A and B):

Same as municipal, except that fire employees only need five years of credited service and police employees have no service requirement if the disability is permanent and total. Police employees with permanent and partial disability need 10 years of credited service (or five years of credited service, if additional contributions were made).



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

Elected:

An active employee found by the Board to be mentally or physically permanently incapacitated from the further performance of duties due to an accident or illness not caused by the performance of duties is eligible for an immediate ordinary disability benefit provided he or she has completed at least 10 years of credited service, or eight years if additional contributions were made.

Benefit Amount

Municipal:

The annual ordinary disability benefit is equal to the benefit determined under the service pension formula using average final compensation and credited service as of the date of disablement.

If the employee is eligible for or receiving workers compensation, no benefit is payable. Such employee may apply for benefits at retirement age.

Uniformed (Plans A and B):

Same as municipal, except each eligible employee is automatically credited with a minimum of 10 years of service to calculate the annual benefit.

Elected:

The annual ordinary disability benefit is equal to the benefit determined under the service pension formula using average final compensation and credited service as of the date of disablement.

16. Survivor Benefits

Eligibility

Municipal:

Service pensions, deferred vested benefits, service-connected disability benefits, and ordinary disability benefits are payable under three optional forms. Options 2 and 3 provide benefits actuarially equivalent to a lifetime only pension while Option 1 has no reduction.

Option 1 - A benefit is payable to the employee providing on his death, the beneficiary will receive a lump sum equal to the excess, if any, of the employee's contributions over the sum of the payments received.

Option 2 - A reduced benefit payable to the employee with the provision that 100% of the reduced benefit will continue to be paid to the designated beneficiary for life after the death of the employee.

Option 3 - The same as Option 2 except only 50% of the reduced benefit is continued to the designated beneficiary.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

Uniformed (Plans A and B):

Same as municipal, except that fire employees may also elect Option 4:

Option 4 - Upon the employee's death, 50% of the benefit will continue to be paid to the surviving spouse for life, provided the employee and spouse were married for two years before retirement and at death. If there is no eligible spouse at the time the employee dies, or the spouse dies before the full amount of the contributions have been returned, 50% of the benefit is continued to dependent children until age 18, or if no dependent children, payments are given to dependent parents for the remainder of their lives. In addition, Option 4 provides for a guaranteed return of employee contributions as described in Option 1 above.

Elected: Same as municipal.

17. Service-Connected Health Care Benefit

Eligibility

Municipal: Not applicable.

Uniformed (Plans A and B):

In the event of the death of a uniformed employee during the performance of his or her duties, a service-connected health care benefit may be payable to the surviving spouse and dependent children. Regular payments will be made of the appropriate cost of maintaining medical, dental, optical and pharmaceutical prescription benefits in force at the time of the employee's death. Payments to the spouse cease upon remarriage and to dependent children at age 18 (age 22 if a full-time student) or, if dependent due to physical or mental infirmity, the duration of the infirmity. The health care benefits are not paid from the pension trust assets.

Elected: Not applicable.

18. Deferred Retirement Option Plan (DROP)

Eligibility

Municipal:

Employees that have 10 years of service and reached the minimum retirement age may elect to participate in the DROP. During this time, their accrued benefit will go into a DROP account and will earn interest at a specified rate (4.5% as of July 1, 2009). The benefit is calculated as of the date they entered the DROP. At the end of the DROP, the employees' accrued monthly benefit will commence, plus they will receive the accumulated amount of the accrued benefit paid to the DROP, as well as the interest earned on such benefit.



APPENDIX D SUMMARY OF PLAN PROVISIONS – 1987 PLAN

Uniformed (Plans A and B): Same as municipal.

Elected: Same as municipal.



APPENDIX D SUMMARY OF PLAN PROVISIONS – PLAN 10

Police employees hired on or after January 1, 2010 will be placed in a new retirement program adopted by the City (Plan '10). New employees will have the option to participate in a defined benefit plan with a different benefit calculation formula and eligibility and vesting rules, and a defined contribution plan with eligibility for City matching contributions, or enter Plan 87 but with increased employee contributions. The employee contribution rate would be 6.0% instead of 5.0%.

Existing Plan A participants had the option, for a period of ninety (90) days, to make an irrevocable election to enter the new pension plan. Employees who elected do so will have their benefits in the existing pension plan frozen, and their future earnings and service will count only toward benefits under the new pension plan.



APPENDIX E GLOSSARY OF TERMS

1. Actuarial Liability

The Actuarial Liability is the difference between the present value of all future system benefits and the present value of total future normal costs. This is also referred to by some actuaries as the "accrued liability" or "actuarial liability."

2. Actuarial Assumptions

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

3. Accrued Service

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

4. Actuarial Equivalent

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

5. Actuarial Funding Method

A mathematical budgeting procedure for allocating the dollar amount of the actuarial present value of a retirement system benefit between future normal cost and actuarial accrued liability. Sometimes this is referred to as the "actuarial funding method."

6. Actuarial Gain (Loss)

The difference between actual experience and actuarial assumption anticipated experience during the period between two actuarial valuation dates.

7. 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.



APPENDIX E GLOSSARY OF TERMS

8. Amortization

This term represents the paying off an interest-discounted amount with periodic payments of interest and principal—as opposed to paying off with a lump sum payment.

9. Annual Required Contribution (ARC) under GASB 25

The Governmental Accounting Standards Board (GASB) Statement No. 25 defines the Plan Sponsor's "Annual Required Contribution" (ARC) that must be disclosed annually and is defined in accordance with the City's Funding Policy.

10. Normal Cost

The actuarial present value of retirement system benefits allocated to the current year by the actuarial funding method.

11. Unfunded Actuarial Liability (UAL)

The difference between actuarial liability and valuation assets. This is sometimes referred to as "unfunded actuarial accrued liability."

Most retirement systems have unfunded actuarial liabilities. They typically arise each time new benefits are added and each time experience gains/losses are realized.

The existence of unfunded actuarial accrued liability is not in itself an indicator of poor funding. Also, unfunded actuarial liabilities do not represent a debt that is payable today. What is important is the ability of the plan sponsor to contribute the annual amortized cost to fund down the unfunded actuarial liability and the trend in unfunded actuarial liability amount.

