# City of Atlanta <br> Police Officers' Pension Fund 

Actuarial Valuation<br>As of January 1,2010

Determines the Contribution<br>For the 2010/ı Fiscal Year

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October 4, 2010

## Introduction

This report presents the results of the January 1, 2010 actuarial valuation of the City of Atlanta Police Officers' Pension Fund. This valuation is based upon the participant data provided as of January 1, 2010 by the plan administrator and asset information provided as of December 31, 2009 by the plan auditor. Except for a cursory review for reasonableness, we have not attempted to verify the accuracy of this information.

The primary purpose of this report is to provide a summary of the funded status of the plan as of January 1, 2010 and to determine the minimum required contribution under Georgia Code Section 47-20-10 for the City's 2010/11 fiscal year. In addition, this report provides a projection of the long-term funding requirements of the plan, accounting disclosures pursuant to Governmental Accounting Standards Board Statement Nos. 25 and 27 (GASB 25/27), statistical information concerning the assets held in the trust, statistical information concerning the participant population, and a summary of any recent plan changes.

The liabilities and cost presented in this report are based on numerous assumptions concerning the cost of benefits to be provided in the future, long-term investment returns, and the future demographic experience of the current participants. Anyone referring to this report should remember that the cost developed herein is only an estimate of the true cost of providing post-employment pension benefits. No one can predict with certainty whether the true cost will be higher or lower than the cost presented in this report. The calculated cost is entirely dependent upon the assumptions that are described in Table V-A. If any of the assumptions is changed, then the cost shown in this report will change accordingly. Likewise, if any of the assumptions is not completely realized, then the cost shown in this report will change in the future.

Certain of the assumptions play a bigger role than others in determining the cost of the post-employment pension benefits. In some cases, relatively small changes in a particular assumption can have a dramatic impact on the anticipated cost of benefits. Although a thorough analysis of the impact of such changes is beyond the scope of this report, Table I-B illustrates the impact that alternative long-term investment returns would have on the minimum required contribution rate.

## Minimum Required Contribution

Table I-A shows the development of the minimum required contribution for the City's 2010/11 fiscal year. The minimum required contribution rate is $48.89 \%$ of covered payroll, which represents an increase of $1.56 \%$ of payroll from the prior valuation.

Table I-C provides a breakdown of the sources of change in the contribution rate. Significantly, the rate increased by $3.00 \%$ of payroll due to investment losses, decreased by $0.61 \%$ of payroll due to demographic experience, and decreased by $0.83 \%$ due to the net effect of three changes in the assumptions used to determine plan liabilities. The
assumption changes are discussed in more detail below. Although the market value of assets earned $18.40 \%$ during the 2009 plan year, the actuarial value of assets earned only $3.02 \%$ during the same period because the actuarial value reflects a portion of the accumulated gains and losses that have occurred during the past five years. Since a $7.75 \%$ annual investment return on the actuarial value of assets is required to maintain a stable contribution rate, the contribution rate increased due to the shortfall in investment earnings on the actuarial value of assets.

Georgia Code Section 47-20-10 sets forth many of the rules concerning the minimum required contribution for public pension plans within the state. Essentially, the City will meet the minimum funding requirement if the employer contributions are at least equal to the annual required contribution under GASB 25/27. In addition, Georgia Code Section 47-20-13 exempts public plan sponsors from the minimum funding requirements if the plan's actuarial value of assets exceeds $150 \%$ of the present value of accumulated retirement system benefits.

Based on the current assets, participant data, and actuarial assumptions and methods that are used to value the plan, the present-day value of the total long-term funding requirement is $\$ 1,150,584,852$. As illustrated in Table I-A, current assets are sufficient to cover $\$ 591,980,609$ of this amount, the employer's expected contribution for the period January 1, 2010 through June 30, 2010 will cover $\$ 18,581,638$ of this amount, the employer's 2010/11 expected contribution will cover $\$ 39,144,951$ of this amount, and future employee contributions will cover $\$ 46,144,331$ of this amount, leaving $\$ 454,733,323$ to be covered by future employer funding. Again, demographic and investment experience that differs from that assumed will either increase or decrease the future employer funding requirement.

## Contents of the Report

Tables I-D through I-G provide a detailed breakdown of various liability amounts by type of benefit and by participant group. Tables II-A through II-C provide information needed by both the plan's and the employer's accountants in order to prepare the relevant financial statements that cover the period July 1, 2010 through June 30, 2011. Tables III-A through III-F provide information concerning the assets of the trust fund. Specifically, Table III-A shows the development of the actuarial value of assets, which is based on the five-year phase-in of the net investment appreciation in order to provide a more stable and predictable contribution rate for the employer. Tables IV-A through IV-F provide statistical information concerning the plan's participant population. In particular, Table IV-F gives a 10-year projection of the cash that is expected to be required from the trust fund in order to pay benefits to the current group of participants. Finally, Tables V-A through VI-B provide a summary of the actuarial assumptions and methods that are used to value the plan's benefits and of the relevant plan provisions as of January 1, 2010, as well as a summary of the changes that have occurred since the previous valuation report was prepared.

## Assumption and Changes

Since the previous valuation report was prepared, three assumptions have been changed. First, the assumed retirement age was changed from a range of rates at ages 45 to 60 to normal retirement age. Second, the assumed disability rates were changed from rates based on the 1974 Social Security disability study to the sex-distinct rates set forth in the Wyatt 1985 Disability Study (Class 4). Finally, the assumed administrative expenses were changed from a
$1.00 \%$ loading of all costs and liabilities to $1.00 \%$ of future payroll. The assumption changes decreased the minimum required contribution by $0.83 \%$ of payroll.

## Certification

This actuarial valuation was prepared by me or under my direct supervision and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate and, in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Georgia Code Section 47-20-10. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends which may require a material change in plan costs or required contribution rates have been taken into account in the valuation.

For the firm,


Charles T. Carr
Consulting Actuary
Southern Actuarial Services Company, Inc.
Enrolled Actuary No. 08-04927

The individual above is a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

## Minimum Required Contribution



For the 2010/11 Fiscal Year

Entry Age Normal Cost for the 2010 Plan Year Unfunded Liability Amortization Payment for the 2010 Plan Year Expense Allowance for the 2010 Plan Year Expected Employee Contribution for the 2010 Plan Year Adjustment to Reflect Semi-Monthly Employer Contributions

Contribution Requirement for the First Half of the Plan Year Expected Employer Contribution for the First Half of the Plan Year Remaining Contribution Due/(Credit) for the First Half of the Plan Year
\$21,543,500 \$21,197,304
\$785,195 (\$5,936,074) \$1,481,101 \$39,071,026
\$19,535,513
$\square$ $\begin{array}{r}(\$ 18,581,638) \\ \$ 953,875 \\ \hline 0.075\end{array}$
$\times 0.0775$
\$73,925
\$39,144,951
Expected Payroll for the 2010/11 Fiscal Year $\qquad$

Minimum Required Contribution Rate
(The actual contribution should be based on the minimum required contribution rate multiplied by the actual payroll for the fiscal year.)

## Additional Disclosures

Present Value of Future Compensation
\$609,149,121
Present Value of Future Employer Contributions \$512,459,912
Present Value of Future Employee Contributions
\$46,144,331


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

## Gain and Loss Analysis

## Source of Change in the Contribution Rate

Previous minimum required contribution rate ..... 47.33\%
Increase (decrease) due to investment gains and losses ..... 3.00\% *
Increase (decrease) due to demographic experience ..... -0.61\%
Increase (decrease) due to plan amendments ..... 0.00\%
Increase (decrease) due to actuarial assumption changes ..... -0.83\%
Increase (decrease) due to actuarial method changes ..... 0.00\%
Current minimum required contribution rate ..... 48.89\%
Source of Change in the Unfunded Liability
Previous unfunded liability ..... \$414,608,000
Increase due to interest ..... \$32,132,120
Decrease due to amortization payments ..... (\$22,047,525)
Increase (decrease) due to plan experience ..... (\$12,985,325)
Increase (decrease) due to plan amendments ..... \$0
Increase (decrease) due to actuarial assumption changes ..... (\$13,087,843)
Increase (decrease) due to actuarial method changes ..... \$0
Current unfunded liability ..... \$398,619,427

* Note: Although the investment return on the market value of assets was $18.40 \%$, the actuarial value of assets only earned $3.02 \%$ based on the five-year phase-in of the prior investment losses, which increased the required contribution rate.


## Present Value of Future Benefits

Old Assumptions
w/o Amendment

Actively Employed Participants
Retirement benefits
Termination benefits
Disability benefits Death benefits
Refund of employee contributions
Sub-total

Deferred Vested Participants
Retirement benefits
Termination benefits
Disability benefits
Death benefits
Refund of employee contributions Sub-total

Due a Refund of Contributions

Deferred Beneficiaries

Retired Participants
Service retirements
Disability retirements
Beneficiaries receiving
DROP participants Sub-total

Grand Total
\$541,237,390
\$2,550,349
\$17,369,024
\$6,707,418
\$714,037
\$568,578,218
\$541,237,390
\$2,550,349
\$17,369,024
\$6,707,418
\$714,037
\$568,578,218

Old Assumptions w/ Amendment

New Assumptions w/ Amendment
\$1,303,648
\$0
\$0
\$0
\$0
\$1,303,648
\$0
\$0

$$
\$ 510,107,361
$$

$$
\$ 49,479,083
$$

$$
\$ 43,352,045
$$

$\$ 0$
\$602,938,489
\$1,172,820,355
\$510,107,361
\$49,479,083
\$43,352,045
\$0
\$602,938,489
\$1,172,820,355
\$493,690,897
\$20,908,370
\$24,274,185
\$6,696,375
\$710,782
\$546,280,609
\$1,303,648
$\$ 0$
\$0
\$0
\$0
\$1,303,648
\$0
\$0
\$505,006,287
\$48,984,292
\$42,918,525
\$0
\$596,909,104
$\$ 1,144,493,361$

## Present Value of Accrued Benefits

Old Assumptions w/o Amendment

Actively Employed Participants
Retirement benefits
Termination benefits
Disability benefits

$$
\$ 12,331,972
$$ Death benefits

Refund of employee contributions
Sub-total

Deferred Vested Participants
Retirement benefits
\$1,303,648
Termination benefits
Disability benefits Death benefits
Refund of employee contributions Sub-total

Due a Refund of Contributions

Deferred Beneficiaries
Retired Participants Service retirements
Disability retirements
Beneficiaries receiving
DROP participants
Sub-total

Grand Total
\$287,094,848
\$272,540,411
\$287,094,848
Old Assumptions
New Assumptions w/ Amendment w/ Amendment

$$
\$ 1,416,699
$$

\$4,136,605
\$442,553
\$305,422,677
\$1,416,699
\$11,599,533
\$12,331,972
\$17,875,246
\$4,136,605
\$442,553
\$305,422,677
\$4,366,095
$\$ 440,791$
\$306,822,076
Retired Participants
Service retirements
Disability retirements
Beneficiaries receiving
DROP participants
Sub-total
Grand Total

Present Value of Vested Benefits

Old Assumptions w/o Amendment

Actively Employed Participants

$$
\begin{array}{r}
\$ 260,748,633 \\
\$ 1,002,875 \\
\$ 12,331,972 \\
\$ 4,081,439 \\
\$ 855,425 \\
\$ 279,020,344
\end{array}
$$

Retirement benefits
Termination benefits
Disability benefits
Death benefits
Refund of employee contributions
Sub-total

Deferred Vested Participants
Retirement benefits
Termination benefits
Disability benefits
Death benefits
Refund of employee contributions
Retirement benefits
Termination benefits
Disability benefits
Death benefits
Refund of employee contributions
Sub-total
Deferred Vested Participants
\$1,303,648
$\$ 0$
\$0
$\$ 0$
\$0
\$1,303,648

Sub-total

Due a Refund of Contributions
Deferred Beneficiaries Retired Participants

Service retirements
Disability retirements
Beneficiaries receiving
DROP participants DROP participants
Sub-total

Grand Total

Old Assumptions w/ Amendment

New Assumptions w/ Amendment

\$248,620,000 \$10,668,056 \$17,875,246 \$4,320,910
\$1,081,140
\$282,565,352
\$510,107,361
\$49,479,083
\$43,352,045
\$0
\$602,938,489
\$883,262,481
\$883,262,481
\$510,107,361
\$43,352,045
$\$ 0$
\$602,938,489
\$1,303,648
\$1,303,648
$\$ 0$\$0
\$0 \$0
\$0
\$0
\$1,303,648
\$0
\$0
\$505,006,287
\$49,479,083 \$48,984,292
$\$ 42,918,525$
\$596,909,104
$\$ 880,778,104$

## Entry Age Normal Accrued Liability

Old Assumptions
w/o Amendment

Actively Employed Participants
Retirement benefits
Termination benefits
Disability benefits Death benefits
Refund of employee contributions Sub-total

Deferred Vested Participants
Retirement benefits
Termination benefits
Disability benefits
Death benefits
Refund of employee contributions Sub-total

Due a Refund of Contributions

Deferred Beneficiaries

Retired Participants
$\frac{\text { Retired Participants }}{\text { Service retirements }}$
Disability retirements
Beneficiaries receiving
DROP participants
Sub-total
Grand Total
less Actuarial Value of Assets

Unfunded Accrued Liability
\$380,703,852
\$1,587,740
\$11,854,442
\$4,837,842 \$461,866
\$399,445,742

Old Assumptions w/ Amendment
\$380,703,852
\$1,587,740
\$11,854,442
\$4,837,842
\$461,866
\$399,445,742

## New Assumptions

 w/ Amendment\$355,179,677
\$14,713,754
\$17,061,149
\$4,972,477
\$460,227
\$392,387,284
\$1,303,648
\$0
\$0
\$0
$\$ 0$
\$1,303,648 \$0
\$0

| $\$ 510,107,361$ | $\$ 505,006,287$ |
| ---: | ---: |
| $\$ 49,479,083$ | $\$ 48,984,292$ |
| $\$ 43,352,045$ | $\$ 42,918,525$ |
| $\$ 0$ | $\$ 0$ |
| $\mathbf{\$ 6 0 2 , 9 3 8 , 4 8 9}$ | $\mathbf{\$ 5 9 6 , 9 0 9}, \mathbf{1 0 4}$ |

$\$ 1,003,687,879 \quad \$ 990,600,036$
$(\$ 591,980,609) \quad(\$ 591,980,609)$
\$411,707,270 \$398,619,427

## Entry Age Normal Cost

|  | Old Assumptions w/o Amendment | Old Assumptions w/ Amendment | New Assumptions w/ Amendment |
| :---: | :---: | :---: | :---: |
| Actively Employed Participants |  |  |  |
| Retirement benefits | \$20,322,927 | \$20,322,927 | \$18,287,949 |
| Termination benefits | \$304,585 | \$304,585 | \$1,208,285 |
| Disability benefits | \$1,069,323 | \$1,069,323 | \$1,587,195 |
| Death benefits | \$300,472 | \$300,472 | \$310,290 |
| Refund of employee contributions | \$150,634 | \$150,634 | \$149,781 |
| Sub-total | \$22,147,941 | \$22,147,941 | \$21,543,500 |
| Deferred Vested Participants |  |  |  |
| Retirement benefits | \$0 | \$0 | \$0 |
| Termination benefits | \$0 | \$0 | \$0 |
| Disability benefits | \$0 | \$0 | \$0 |
| Death benefits | \$0 | \$0 | \$0 |
| Refund of employee contributions | \$0 | \$0 | \$0 |
| Sub-total | \$0 | \$0 | \$0 |
| Due a Refund of Contributions | \$0 | \$0 | \$0 |
| Deferred Beneficiaries | \$0 | \$0 | \$0 |
| Retired Participants |  |  |  |
| Service retirements | \$0 | \$0 | \$0 |
| Disability retirements | \$0 | \$0 | \$0 |
| Beneficiaries receiving | \$0 | \$0 | \$0 |
| DROP participants | \$0 | \$0 | \$0 |
| Sub-total | \$0 | \$0 | \$0 |
| Grand Total | \$22,147,941 | \$22,147,941 | \$21,543,500 |

## Actively Employed Participants

Retirement benefits
Termination benefits
Disability benefits Death benefits
Refund of employee contributions
Sub-total
Deferred Vested Participants
Retirement benefits
o

Disability benefits
Death benefits
Sub-total
and
\$20,322,927
\$304,585
\$1,069,323
\$300,472
\$150,634
\$22,147,941

Retired Participants
Disability retirements
$\$ 0$
\$0

Table I-H

Old Assumptions w/o Amendment
w/ Amendment
\$18,287,949
\$1,208,285
\$1,587,195
\$310,290
\$149,781
\$21,543,500
$\$ 0$
$\$ 0$
\$0
$\mathbf{\$ 2 1 , 5 4 3 , 5 0 0}$

## GASB 25/27 Results

## Development of the Net Pension Obligation (Asset) <br> Development of the Net Pension Obligation (Asset)

Annual Pension Cost for the 2009/10 Plan Year Employer Contributions for the 2009/10 Plan Year Net Increase (Decrease) in NPO

Net Pension Obligation (Asset) as of July 1, 2010

Net Pension Obligation (Asset) as of July 1, 2009
Net Pension Obligation (Asset) as of July 1, 2009Annual Pension Cost for the 2009/10 Plan YearEmployer Contributions for the 2009/10 Plan YearNet Increase (Decrease) in NPONet Pension Obligation (Asset) as of July 1, 2010

[^0]$\square$



#### Abstract

$$
0
$$




## Development of the Annual Required Contribution (ARC)

Employer Normal Cost
Amortization of the UAAL
Expense Allowance
Amortization of the Net Pension Obligation (Asset)
Interest Adjustment
Amortization of the Net Pension Obligation (Asset)
Interest Adjustment
Annual Required Contribution (ARC)

## Development of the Annual Pension Cost (APC)

Annual Required Contribution (ARC)
Interest on the Net Pension Obligation (Asset)
Adjustment to the ARC
Annual Pension Cost (APC)
\$0
$\qquad$

## For the 2010/11 Plan Year

\$15,607,426
\$21, 197,304
$\$ 785,195$
\$0
\$1,555,026
$\$ 39,144,951$
$\$ 39,144,951$


## \$0

| $\$ 15,607,426$ |
| ---: |
| $\$ 21,197,304$ |
| $\$ 785,195$ |
| $\$ 0$ |
| $\$ 1,555,026$ |
| $\$ 39,144,951$ |

$\$ 0$
$\begin{array}{r}\$ 0 \\ \hline \$ 39,144,951 \\ \hline\end{array}$

## Schedule of Employer Contributions

|  | Annual |  | Annual |  |
| :---: | :---: | :---: | :---: | :---: |
| Year Ended | Required | Pension | $\%$ |  |
| December 31 | Contribution | Contrib. | $\frac{\text { Cost }}{\text { N/A }}$ | $\frac{\text { Contrib. }}{}$ |
| 2004 | N/A | $100 \%$ | $\$ 15,687,000$ | $100 \%$ |
| 2005 | $\$ 15,687,000$ | $100 \%$ | $\$ 45,229,000$ | $100 \%$ |
| 2006 | $\$ 45,229,000$ | $100 \%$ | $\$ 44,058,000$ | $100 \%$ |
| 2007 | $\$ 44,058,000$ | $100 \%$ | $\$ 44,810,000$ | $100 \%$ |
| 2008 | $\$ 44,810,000$ | $100 \%$ | $\$ 41,213,384$ | $100 \%$ |
| 2009 | $\$ 41,213,384$ |  |  |  |

Schedule of Funding Progress

|  | (1) | (2) | (3) | (4) | (5) | (6) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Actuarial |  |  |  | UAAL |
| Actuarial | Actuarial | Accrued | Unfunded |  |  | as \% of |
| Valuation | Value of | Liability | AAL | Funded | Covered | Covered |
| Date | Assets | (AAL) | (UAAL) | Ratio | Payroll | Payroll |
|  |  |  | (2) - (1) | (1) $\div$ (2) |  | (3) $\div(5)$ |
| January 1, 2005 | N/A | \$658,861,000 | N/A | N/A | \$70,973,000 | N/A |
| January 1, 2006 | N/A | \$817,255,000 | N/A | N/A | \$73,515,000 | N/A |
| January 1,2007 | N/A | \$850,886,000 | N/A | N/A | \$77,168,000 | N/A |
| January 1,2008 | \$596,457,000 | \$909,410,000 | \$312,953,000 | 65.59\% | \$84,016,000 | 372.49\% |
| January 1, 2009 | \$571,768,000 | \$986,376,000 | \$414,608,000 | 57.97\% | \$82,030,000 | 505.43\% |
| January 1,2010 | \$591,980,609 | \$990,600,036 | \$398,619,427 | 59.76\% | \$78,519,495 | 507.67\% |

## Additional Information

Valuation Date January 1, 2010 Actuarial Cost Method Entry age normal
Amortization Method Level percentage, open
Remaining Amortization Period 30 years
Asset Valuation Method Five-year smoothed market
Discount Rate 7.75\%
Salary Increase Rate $4.00 \%$

## SFAS 35 Disclosures

## Actuarial Present Value of Accrued Benefits

As of January 1, 2009
As of January 1, 2010

Vested Benefits
Participants currently receiving benefits
Other participants
Sub-total

Non-Vested Benefits

Total Benefits

Funded Percentage

\$26,222,000
\$596,909,104
\$283,869,000
$\$ 880,778,104$
\$24,256,724
$\$ 905,034,828$
67.90\%

## Statement of Change in Actuarial Present Value of Accrued Benefits

| Actuarial Present Value as of January 1, 2009 | $\$ 886,039,000$ |
| ---: | ---: |
| Increase (Decrease) Due To: |  |
| Interest | $\$ 68,668,022$ |
| Benefits accumulated | $(\$ 1,017,997)$ |
| Benefits paid | $(\$ 44,024,211)$ |
| Plan amendments | $\$ 0$ |
| Changes in actuarial methods and assumptions | $(\$ 4,629,986)$ |
| Net increase (decrease) | $\$ 18,995,828$ |
|  |  |
| Actuarial Present Value as of Januarv 1, 2010 |  |

Actuarial Value of Assets

| Net Investment Gain (Loss) |  | Unrecognized Gain (Loss) |  |
| :---: | :---: | :---: | :---: |
| For the 2006 plan year | \$31,854,000 | x $20 \%$ | \$6,370,800 |
| For the 2007 plan year | (\$23,715,000) | x 40\% | $(\$ 9,486,000)$ |
| For the 2008 plan year | $(\$ 73,068,655)$ | x 60\% | $(\$ 43,841,193)$ |
| For the 2009 plan year | \$86,832,237 | x 80\% | \$69,465,790 |
|  |  |  | \$22,509,397 |

Market Value of Assets as of January 1, $2010 \quad \$ 614,490,006$

Minus advance employer contributions

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

Actuarial Value of Assets as of January 1, 2010
$\$ 591,980,609$

Historical Actuarial Value of Assets
January 1, 2001 N/A
January 1,2002 N/A
January 1, 2003 N/A
January 1, 2004 N/A
January 1, 2005 N/A
January 1, 2006 N/A
January 1,2007 N/A
January 1,2008 \$596,457,000
January 1,2009 \$571,768,000
January 1,2010 \$591,980,609

Market Value of Assets


Historical Market Value of Assets
January 1, 2001 N/A January 1, 2002 January 1, 2003 January 1, 2004 January 1, 2005 January 1, 2006 January 1, 2007 January 1, 2008 January 1, 2009
January 1, 2010

Investment Return


|  | Market <br> Value | Actuarial <br> Value | Assumed |
| :---: | ---: | ---: | ---: |
| Plan | $\frac{\text { Return }}{\text { Rearn }}$ | Return |  |
| 2000 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2001 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2002 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2003 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2004 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2005 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2006 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2007 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2008 | $-9.85 \%$ | $-5.92 \%$ | $7.75 \%$ |
| 2009 | $18.40 \%$ | $3.02 \%$ | $7.75 \%$ |
|  |  |  |  |

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## Asset Reconciliation

Market Value
\$516,308,590
\$571,768,000
Increases Due To:
Employer Contributions
Employee Contributions
Total Contributions
Interest and Dividends
Gains (Losses)
Total Investment Income

Other Income
Total Income
Decreases Due To:

Benefit Payments

Total Benefit Payments
Investment Expenses
Administrative Expenses
Advance Employer Contribution

Total Expenses
As of January 1, 2010
$(\$ 47,768,466)$
\$614,490,006
(\$45,716,453)
\$591,980,609

Historical Trust Fund Detail

## Income

| Plan <br> Year | Employer <br> Contribs. | Employee <br> Contribs. | Interest/ <br> Dividends | Gains $/$ <br> Losses | Other <br> Income |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 2000 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |  |  |  |

## Expenses

| Plan <br> Year | Benefit <br> Payments | Admin. <br> Expenses | Invest. <br> Expenses |
| :--- | ---: | ---: | ---: |
| 2000 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2001 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2002 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2003 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2004 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2005 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2006 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2007 | $\mathrm{~N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ | $\mathrm{N} / \mathrm{A}$ |
| 2008 | $\$ 38,530,904$ | $\$ 607,811$ | $\$ 2,742,878$ |
| 2009 | $\$ 44,024,211$ | $\$ 1,692,242$ | $\$ 2,052,013$ |

## Summary of Participant Data

## As of January 1, 2010

## Actively Employed Participants

| Active Participants | 1,574 |
| :--- | ---: |
| DROP Participants | 0 |

Inactive Participants
D Deferred Vested Participants

- Deferred Beneficiaries

Participants Receiving a Benefit
Service Retirements

Disability Retirements

Beneficiaries Receiving
Total Participants

Participant Distribution by Status


## Number of Participants Included in Prior Valuations

|  | Active | DROP | Inactive | Retired | Total |
| :--- | ---: | ---: | ---: | ---: | ---: |
| January 1,2001 | N/A | N/A | N/A | N/A | N/A |
| January 1,2002 | 1,540 | 0 | 0 | 953 | 2,493 |
| January 1, 2003 | 1,523 | 0 | 0 | 970 | 2,493 |
| January 1,2004 | 1,488 | 0 | 0 | 1,013 | 2,501 |
| January 1,2005 | 1,638 | 0 | 0 | 1,041 | 2,679 |
| January 1,2006 | 1,775 | 0 | 0 | 1,115 | 2,890 |
| January 1,2007 | 1,735 | 0 | 0 | 1,204 | 2,939 |
| January 1,2008 | 1,811 | 0 | 0 | 1,272 | 3,083 |
| January 1,2009 | 1,639 | 0 | 0 | 1,355 | 2,994 |
| January 1,2010 | 1,574 | 0 | 3 | 1,293 | 2,870 |

Active Participant Data

## Table IV-B

As of January 1, 2010

Average Age 38.9 years
Average Service 10.8 years
Total Annualized Compensation for the Prior Year $\$ 80,044,694$
Total Expected Compensation for the Current Year \$78,519,495 Average Increase in Compensation for the Prior Year 2.06\% Expected Increase in Compensation for the Current Year 4.00\% Accumulated Contributions for Active Employees $\$ 48,545,083$

Actual vs. Expected Salary Increases

Active Participant Statistics From Prior Valuations

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average Age | Average Senvice | Average Salary | Average Expected Salary | Average <br> Actual <br> Salary |
| January 1, 2001 | Age N/A | Service N/A | Salary N/A | Increase N/A | increase N/A |
| January 1, 2002 | 38.7 | 12.4 | \$43,729 | N/A | N/A |
| January 1, 2003 | 38.1 | 11.7 | \$43,203 | N/A | N/A |
| January 1, 2004 | 38.5 | 12.0 | \$43,394 | N/A | N/A |
| January 1, 2005 | 37.9 | 11.3 | \$44,256 | N/A | N/A |
| January 1,2006 | 38.1 | 11.6 | \$44,442 | 4.50\% | 3.63\% |
| January 1, 2007 | 37.5 | 10.8 | \$46,305 | 4.00\% | 5.19\% |
| January 1, 2008 | 37.5 | 10.4 | \$48,199 | 4.00\% | 3.44\% |
| January 1, 2009 | 37.9 | 11.0 | \$51,008 | 4.00\% | 3.69\% |
| January 1, 2010 | 38.9 | 10.8 | \$50,854 | 4.00\% | 2.06\% |



[^1]Active Age-Service-Salary Table

| Attained Age | Completed Years of Service |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | 35 to 39 | 40 \& up | Total |
| Under 25 | 16 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| Avg.Pay | 9,131 | 40,039 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24,585 |
| 25 to 29 | 32 | 133 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 230 |
| Avg.Pay | 14,674 | 42,123 | 42,719 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38,472 |
| 30 to 34 | 17 | 117 | 151 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 297 |
| Avg.Pay | 12,861 | 42,599 | 45,443 | 48,707 | 0 | 0 | 0 | 0 | 0 | 0 | 42,589 |
| 35 to 39 | 6 | 50 | 95 | 87 | 22 | 0 | 0 | 0 | 0 | 0 | 260 |
| Avg.Pay | 15,497 | 43,705 | 46,228 | 53,761 | 58,294 | 0 | 0 | 0 | 0 | 0 | 48,575 |
| 40 to 44 | 3 | 27 | 49 | 78 | 96 | 36 | 0 | 0 | 0 | 0 | 289 |
| Avg.Pay | 16,648 | 43,860 | 46,632 | 53,557 | 60,193 | 64,910 | 0 | 0 | 0 | 0 | 54,712 |
| 45 to 49 | 1 | 16 | 23 | 20 | 72 | 133 | 21 | 0 | 0 | 0 | 286 |
| Avg.Pay | 36,110 | 45,832 | 46,080 | 54,529 | 60,370 | 66,987 | 70,025 | 0 | 0 | 0 | 61,700 |
| 50 to 54 | 2 | 4 | 2 | 9 | 12 | 49 | 64 | 0 | 0 | 0 | 142 |
| Avg.Pay | 14,887 | 41,802 | 46,900 | 49,735 | 62,916 | 65,379 | 71,703 | 0 | 0 | 0 | 65,394 |
| 55 to 59 | 0 | 1 | 0 | 3 | 7 | 8 | 12 | 3 | 0 | 0 | 34 |
| Avg.Pay | 0 | 32,423 | 0 | 50,154 | 60,787 | 61,644 | 65,705 | 76,531 | 0 | 0 | 62,341 |
| 60 to 64 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 |
| Avg.Pay | 0 | 0 | 0 | 0 | 0 | 0 | 67,762 | 59,501 | 67,158 | 0 | 64,807 |
| 65 \& up | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Avg.Pay | 0 | 0 | 0 | 0 | 0 | 72,590 | 0 | 0 | 0 | 0 | 72,590 |
| Total Avg.Pay | 77 13,547 | $\begin{array}{r} 364 \\ 42,663 \end{array}$ | $\begin{array}{r} 385 \\ 45,374 \end{array}$ | $\begin{array}{r} 209 \\ 53,243 \end{array}$ | $\begin{array}{r} 209 \\ 60,230 \end{array}$ | $\begin{array}{r} 227 \\ 66,147 \end{array}$ | 98 70,569 | 4 72,274 | 1 67,158 | 0 0 | 1,574 50,854 |



Average Monthly Benefit

| Service Retirements | $\$ 3,036.88$ |
| ---: | ---: |
| Disability Retirements | $\$ 2,630.40$ |
| Beneficiaries Receiving | $\$ 1,409.20$ |
| DROP Participants | Not applicable |
|  |  |
|  | $\$ 3,243.88$ |
| Deferred Beneficiaries | Not applicable |

Projected Benefit Payments


## Actual

For the period January 1, 2009 through December 31, 2009
$\$ 44,024,211$

## Projected

For the period January 1, 2010 through December 31, 2010
For the period January 1, 2011 through December 31, 2011
For the period January 1, 2012 through December 31, 2012
For the period January 1, 2013 through December 31, 2013
For the period January 1, 2014 through December 31, 2014
For the period January 1, 2015 through December 31, 2015
For the period January 1, 2016 through December 31, 2016
For the period January 1, 2017 through December 31, 2017
For the period January 1, 2018 through December 31, 2018
For the period January 1, 2019 through December 31, 2019
\$43,617,159
\$46,398,747
\$49,035,117
\$51,383,347
\$54,329,347
\$57,068,550
\$60,043,658
\$64,794,001
\$68,891,720
\$73,289,133

## Summary of Actuarial Methods and Assumptions

## 1. Actuarial Cost Method

Individual entry age normal cost method. Under this actuarial cost method, a level funding cost is developed with respect to each benefit for each participant. The level funding cost for each benefit applies to the period beginning when the participant's service commences and ending when the participant is assumed to cease active participation due to each respective decrement. The actuarial accrued liability is equal to the accumulated level funding cost to the valuation date for all participants. The normal cost is equal to the level funding cost for the year immediately following the valuation date for all active participants.

## 2. Asset Method

The actuarial value of assets is equal to the market value of assets adjusted to reflect a five-year phase-in of the net investment appreciation.
3. Interest (or Discount) Rate
7.75\% per annum
4. Salary Increases

Plan compensation is assumed to increase at the rate of $4.00 \%$ per annum, unless actual plan compensation is known for a prior plan year.

## 5. Decrements

- Pre-retirement mortality: Sex-distinct rates set forth in the RP-2000 Mortality Table for non-annuitants; deaths prior to retirement are assumed not to be service-connected.
- Post-retirement mortality: Sex-distinct rates set forth in the RP-2000 Mortality Table for annuitants
- Disability:
- Termination:

Sex-distinct rates set forth in the Wyatt 1985 Disability Study (Class 4); 75\% of disabilities are assumed to be service-connected.

Withdrawal rates were derived from a study of actual plan experience covering the period 1982 through 1986. A sample of the withdrawal rates is set forth in the following table:

| Age | $\frac{\text { Rate }}{}$ | Age | $\frac{\text { Rate }}{7.0}$ | $\frac{\text { Age }}{40}$ | $\frac{\text { Rate }}{}$ | Age | $\frac{\text { Rate }}{50}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | $15.0 \%$ | 30 | $7.8 \%$ | 50 | $0.956 \%$ |  |  |
| 25 | $11.4 \%$ | 35 | $4.9 \%$ | 45 | $1.35 \%$ | 55 | $0.000 \%$ |

- Retirement:

Retirement is assumed to occur at normal retirement age.

## Summary of Actuarial Methods and Assumptions

## 6. Unused Vacation

All participants are assumed to have accumulated 30 days of unused vacation upon termination of employment, retirement, or death.
7. Payroll Increase and Amortization Period

Total payroll has been assumed to grow at the rate of $4.00 \%$ per year for purposes of amortizing the unfunded actuarial accrued liability as a level percentage of payroll; the amortization period is established by City ordinance as a rolling 30-year period beginning July 1, 2009.
8. Expenses

Administrative expenses are assumed to be $0.50 \%$ of future payroll. In addition, the interest rate set forth in item 3. above is assumed to be net of investment expenses and commissions.

## 9. Cost-of-Living Adjustment

We have assumed that all eligible retirees will receive an automatic cost-of-living adjustment equal to $3.00 \%$ per annum.
10. Surviving Beneficiaries

Those active participants who are making the additional $1 \%$ employee contribution to provide a survivor benefit to their eligible beneficiaries are assumed to have only one surviving beneficiary of the opposite gender of the employee. Males are assumed to be three years older than females for this purpose.

## Changes in Actuarial Methods and Assumptions

The following assumptions have been changed from those used to complete the previous valuation:

1. The assumed incidence of disability was changed from rates based on the 1974 Social Security disability study to the sex-distinct rates set forth in the Wyatt 1985 Disability Study (Class 4).
2. The assumed retirement age was changed from a range of rates at ages 45 through 60 to normal retirement age.
3. Administrative expenses were changed from a $1.00 \%$ loading of all costs and liabilities to $1.00 \%$ of future payroll.

## Summary of Plan Provisions

## 1. Monthly Accrued Benefit

$3 \%$ of Average Monthly Earnings multiplied by up to 26.667 years of Creditable Service

## 2. Normal Retirement Age and Benefit

- Age

Any age with at least 30 years of Creditable Service (only for participants covered by the '05 Amendment); or
Age 55 with at least 10 years of Creditable Service; or
Age 65 with at least 5 years of Creditable Service

- Amount

Monthly Accrued Benefit

- Form of Payment

Life annuity (for those participants without an eligible beneficiary); or
$75 \%$ joint and contingent annuity (for those participants with an eligible beneficiary; benefits continue in equal shares to the participant's dependent children upon the death of the participant's spouse or domestic partner or, for participants not covered by the '86 Amendment, upon the remarriage of the participant's spouse or domestic partner)

Note: All annuity forms of payment include an automatic cost-of-living adjustment effective each January 1 based on the increase in the Consumer Price Index as of the preceding November 1 and limited to $3 \%$. All annuity forms of payment also provide a minimum payout equal to the employee's accumulated contributions, with interest credited after 1985 at the rate of $5 \%$ per year (or less than $5 \%$ with respect to any year during which the trust fund earns less than $5 \%$ on its investments).

## 3. Early Retirement Age and Benefit

- Age

Any age with at least 10 years of Creditable Service

- Amount

Monthly Accrued Benefit (payable at age 55); or
Monthly Accrued Benefit reduced by $1 / 2 \%$ for each of the first 60 months and by $1 / 4 \%$ for each additional month by which the participant's Early Retirement Age precedes age 55 (payable at Early Retirement Age); or
Monthly Accrued Benefit reduced by $1 / 4 \%$ for each month by which the participant's Early Retirement Age precedes age 55 (payable at Early Retirement Age and only applicable if the participant was hired prior to April 1, 1978 and has earned at least 25 years of Creditable Service)

- Form of Payment

Same as for Normal Retirement

## Summary of Plan Provisions

## 4. Delayed Retirement Age and Benefit

- Age

After Normal Retirement Age

- Amount

Monthly Accrued Benefit

- Form of Payment

Same as for Normal Retirement

## 5. Disability Retirement Eligibility and Benefit

- Eligibility

All active participants are eligible if the disability is service-connected;
At least five years of Creditable Service is required otherwise.

- Condition

The participant must become "totally and permanently disabled" and must remain so disabled until age 55. "Totally and permanently disabled" means the participant is in a continuous state of incapacity due to illness or injury, is prevented from performing his regular assigned or comparable duties during the first 12 months of his disability, and is thereafter prevented from engaging in any occupation for which he is or becomes reasonably qualified by education, training, or experience. With respect to participants who are not covered by the ' 86 Amendment, the participant must only be prevented from performing his regular assigned or comparable duties during the entire period of his disability.

## - Amount

For participants who incur a catastrophic injury in the line of duty:
$100 \%$ of the top salary for the grade and position occupied by the participant at the time of disability
For all other participants who are covered by the '86 Amendment:
Greater of $50 \%$ of Average Monthly Earnings at the time of disability or Monthly Accrued Benefit, offset by worker's compensation payments such that the combination of payments does not exceed $75 \%$ of the participant's salary at the time of disability (payable until the earlier of recovery from disability or age 55); and
Monthly Accrued Benefit based on Average Monthly Earnings at the time of disability and Creditable Service including the period during which the participant was disabled, but excluding any cost-of-living adjustments that were previously applied to the participant's disability payments (payable at age 55)

## Summary of Plan Provisions

## Disability Retirement Eligibility and Benefit (continued)

For all other participants with a service-connected disability:
Greater of $70 \%$ of the top salary for the grade and position occupied by the participant at the time of disability or Monthly Accrued Benefit, offset by worker's compensation payments such that the combination of payments does not exceed $100 \%$ of the participant's salary at the time of disability
For all other participants:
Monthly Accrued Benefit, offset by worker's compensation payments such that the combination of payments does not exceed $100 \%$ of the participant's salary at the time of disability

## - Form of Payment

Same as for Normal Retirement

## 6. Deferred Vested Benefit

- Age

Any age with at least five years of Creditable Service

- Amount

Monthly Accrued Benefit multiplied by the participant's Vested Percentage and payable at age 60

- Form of Payment

Same as for Normal Retirement

## 7. Pre-Retirement Death Benefit

For participants who die in the line of duty and who are covered by the ' 86 Amendment:
$100 \%$ of the participant's base salary at the time of his death, offset by worker's compensation or other payments received for line of duty injuries prior to the participant's death (payable for the first two years after the participant's death); and
$75 \%$ of the Monthly Accrued Benefit (payable thereafter)
For all other participants who die in the line of duty:
$100 \%$ of the participant's base salary at the time of his death, offset by worker's compensation or other payments received for line of duty injuries prior to the participant's death (payable for the first two years after the participant's death); and
$75 \%$ of the greater of: (a) the Monthly Accrued Benefit, or (b) $70 \%$ of the top salary for the grade and position occupied by the participant at his death (payable thereafter)

For all other participants:
$75 \%$ of the Monthly Accrued Benefit

# Summary of Plan Provisions 

## 8. Vested Percentage

Retirement benefits become vested in accordance with the following schedule:

| Years of Creditable Service | Vested <br> Percentage |
| :---: | :---: |
| Less than five |  |
| At least five, but less than six | $0 \%$ |
| At least six, but less than seven | $25 \%$ |
| At least seven, but less than eight | $30 \%$ |
| At least eight, but less than nine | $35 \%$ |
| At least nine, but less than 10 | $40 \%$ |
| At least 10 | $45 \%$ |
|  | $100 \%$ |

## 9. Average Monthly Earnings

The participant's Average Monthly Earnings is equal to: (a) the average of the participant's Base Salary for the highest 36 consecutive months during his period of Creditable Service; plus (b) the difference between the highest and lowest daily rate of pay during such 36 -month period multiplied by the days of unused sick leave and divided by 36 ; plus (c) a credit based on accumulated unused vacation.
10. Base Salary

The employee's basic salary excluding overtime pay and other special compensation; pursuant to IRC section 401(a)(17), total annual plan compensation is limited to $\$ 200,000$ as indexed.

## 11. Employee Contribution

All participating employees must make the required pre-tax contribution to the plan. The required contribution is $8 \%$ of basic salary for those participants who have an eligible beneficiary for death benefits and $7 \%$ of basic salary for all other participants. An eligible beneficiary is the participant's legal spouse, registered domestic partner, or unmarried child under the age of 18 (or under age 23 if a full-time student). The participant must have been married or registered to his legal spouse or domestic partner for at least one year prior to his death in order for such individual to be an eligible beneficiary. (During the period March, 1994 through June, 2009, the required contribution was $1 \%$ lower for all participants; prior to March, 1994, the contribution was made on an after-tax basis.)

## Summary of Plan Provisions

## 12. Creditable Service

Creditable Service includes "base creditable service" and an "unused sick leave service credit," plus military service as required by federal law. Base creditable service is granted for all periods of full-time employment as a police officer with the City of Atlanta provided that the employee has made the required contribution for such period of service. An unused sick leave service credit is granted by dividing the participant's days of unused sick leave by the number of work days set forth in the following chart:

| Years of Base Creditable Service | Work Days |
| :---: | :---: |
| Less than five | 239 |
| At least five, but less than 10 | 236 |
| At least 10, but less than 15 | 233 |
| At least 15, but less than 20 | 230 |
| At least 20 | 226 |

Creditable Service also includes other service with the City of Atlanta if the relevant contributions are transferred into this plan and may include prior service with the State of Georgia, Fulton County, Dekalb County, or as a teacher in a public school system or private college or university within the State of Georgia if the required contribution is made to the plan.

## 13. Participation Requirement

All full-time police officers employed by the City of Atlanta are eligible to participate in the plan.

## 14. Plan Effective Date

April 1, 1978

## Summary of Plan Amendments

Since the completion of the previous valuation, no significant plan changes have been adopted.


[^0]:    

[^1]:    $\triangle$ Eligible to retire
    May be eligible to retire
    A Not eligible to retire

