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Report on the Actuarial Valuations of the District of Columbia Retirement Board

Teachers' Retirement Plan and Police Officers' & Firefighters' Retirement Plan

Prepared as of October 1, 2013



www.CavMacConsulting.com



December 10, 2013

The Board of Trustees District of Columbia Retirement Board 900 7th Street, NW, 2nd Floor Washington, DC 20001

Dear Trustees:

We are pleased to submit the results of the annual actuarial valuations of the District of Columbia Retirement Board Teachers' Retirement Plan and Police Officers' & Firefighters' Retirement Plan, prepared as of October 1, 2013.

The purpose of this report is to provide a summary of the funded status of each Plan as of October 1, 2013, to recommend rates of contribution to be paid by the District in the 2015 fiscal year and to provide accounting information under Governmental Accounting Standards Board Statements No. 25 and 27 (GASB 25 and 27). While not verifying the data at source, the actuary performed tests for consistency and reasonability.

The promised benefits are included in the actuarially calculated contribution rates which are developed using the entry age normal cost method. Seven-year smoothed market value of assets is used for actuarial valuation purposes. The assumptions recommended by the actuary and adopted by the Board are reasonably related to the experience under the Fund and to reasonable expectations of anticipated experience under the Fund and meet the parameters for the disclosures under GASB 25 and 27.

The funding policy adopted by the Board in 2012 includes the following funding goals:

- To maintain an increasing or stable ratio of Plan assets to accrued liabilities and reach a 100 percent minimum funded ratio;
- To develop a pattern of stable or declining contribution rates when expressed as a percentage of member payroll as measured by valuations prepared in accordance with the principles of practice prescribed by the Actuarial Standards Board, with a minimum employer contribution equal to the lesser of the normal cost determined under the Entry Age Normal funding method or the current active member contribution rate.



December 10, 2013 The Board of Trustees Page 2

The funding policy not only states the overall funding goals and benchmarks for the Plan, but sets the methods and assumptions. The level dollar amortization period was set to 20 years in 2012 and will decline one year each year until a funded ratio of 100 percent is reached. Therefore, the amortization period this year is 19 years.

Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements; and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

The undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

The Table of Contents, which immediately follows, outlines the material contained in the report.

Respectfully submitted,

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TABLE OF CONTENTS

| Section | ltem | Page No. |
|---------|--|----------|
| I | Summary of Principal Results | 1 |
| Ш | Membership Data | 7 |
| Ш | Assets | 10 |
| IV | Comments on Valuation | 11 |
| V | §1-907.02(c) Adjustment to Fiscal Year 2015 District Payment | 13 |
| VI | Contributions Payable | 14 |
| VII | Accounting Information | 15 |
| VIII | Experience | 19 |

Schedule

| А | Valuation Balance Sheet and Solvency Test | 21 |
|---|--|----|
| В | Development of the Actuarial Value of Assets | 24 |
| С | Summary of Changes in Net Assets | 26 |
| D | Outline of Actuarial Assumptions and Methods | 28 |
| E | Summary of Main Plan Provisions as Interpreted For Valuation Purposes | 34 |
| F | Schedules of Member Data | 44 |
| G | Schedule of Retirees Added to and Removed from Rolls | 56 |
| Н | Analysis of Financial Experience | 58 |



REPORT ON THE ACTUARIAL VALUATION OF THE DISTRICT OF COLUMBIA RETIREMENT BOARD PREPARED AS OF OCTOBER 1, 2013

SECTION I - SUMMARY OF PRINCIPAL RESULTS

 For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results for the Teachers' Retirement Plan and Police Officers' and Firefighters' Retirement Plan are summarized below in the tables that follow.

SUMMARY OF PRINCIPAL RESULTS FOR TEACHERS' RETIREMENT PLAN (\$ IN THOUSANDS)

| VALUATION DATE | October 1, 2013 | October 1, 2012 |
|--|-------------------------------|----------------------------|
| Number of Active Members Annual Covered Payroll | 4,379 \$369,071 | 4,495 \$381,235 |
| Number of Retired Members and Survivors Annual Retirement Benefits | 3,448 \$52,966 | 3,285 \$47,407 |
| Assets: Actuarial Value Market Value | \$1,585,775 \$1,622,376 | \$1,585,626 \$1,503,346 |
| Liabilities: Accrued Liability Unfunded Accrued Liability (UAL) | \$1,759,043 \$173,268 | \$1,680,548 \$94,922 |
| Funding Ratios: Based on Actuarial Value Based on Market Value | 90.15% 92.23% | 94.35 % 89.46 % |
| Amortization Period: | 19 years | 20 years |
| CONTRIBUTION FOR FISCAL YEAR ENDING | 09/30/2015 | 09/30/2014 |
| Employer Normal Cost Rate* Amortization of UAL Rate Annual Required Contribution Rate (ARC) | 6.29% 4.11 10.40% | 5.84% 2.12 7.96% |
| Estimated Fiscal Year End Covered Payroll | \$384,757 | \$397,437 |
| Fiscal Year District Payment before 1-907.02(c) Shortfall/Overpayment Fiscal Year District Payment | \$40,015 (502) \$39,513 | \$31,636 0 \$31,636 |





SUMMARY OF PRINCIPAL RESULTS FOR POLICE OFFICERS' RETIREMENT PLAN (\$ IN THOUSANDS)

| VALUATION DATE | October 1, 2013 | October 1, 2012 |
|--|------------------------------|------------------------------|
| Total Number of Active Members Total Annual Covered Payroll | 3,846 \$292,494 | 3,810 \$291,780 |
| Number of Retired Members and Survivors Annual Retirement Benefits | 1,584 \$34,392 | 1,498 \$30,592 |
| Total Assets: Actuarial Value Market Value | \$2,869,122 \$2,978,529 | \$2,719,839 \$2,637,960 |
| Liabilities: Accrued Liability Unfunded Accrued Liability (UAL) | \$2,552,979 (\$316,143) | \$2,434,513 (\$285,326) |
| Funding Ratios: Based on Actuarial Value Based on Market Value | 112.38% 116.67% | 111.72 % 108.36 % |
| Amortization Period: | 19 years | 20 years |
| CONTRIBUTION FOR FISCAL YEAR ENDING | 09/30/2015 | 09/30/2014 |
| Employer Normal Cost Rate* Amortization of UAL Rate Annual Required Contribution Rate (ARC) | 32.21% (9.45) 22.76% | 31.92 % (8.33) 23.59 % |
| Estimated Fiscal Year End Covered Payroll | \$304,925 | \$304,181 |
| Fiscal Year District Payment before 1-907.02(c) Shortfall/Overpayment Fiscal Year District Payment | \$69,401 (34) \$69,367 | \$71,756 861 \$72,617 |





SUMMARY OF PRINCIPAL RESULTS FOR FIREFIGHTERS' RETIREMENT PLAN (\$ IN THOUSANDS)

| VALUATION DATE | October 1, 2013 | October 1, 2012 |
|--|---------------------------------|---------------------------------|
| Total Number of Active Members Total Annual Covered Payroll | 1,664 \$120,886 | 1,700 \$123,097 |
| Number of Retired Members and Survivors Annual Retirement Benefits | 599 \$15,138 | 541 \$12,838 |
| Total Assets: Actuarial Value Market Value | \$1,144,412 \$1,189,928 | \$1,085,014 \$1,043,565 |
| Liabilities: Accrued Liability Unfunded Accrued Liability (UAL) | \$1,091,106 (\$53,306) | \$1,022,464 (\$62,550) |
| Funding Ratios: Based on Actuarial Value Based on Market Value | 104.89% 109.06% | 106.12 % 102.06 % |
| Amortization Period: | 19 years | 20 years |
| CONTRIBUTION FOR FISCAL YEAR ENDING | 09/30/2015 | 09/30/2014 |
| Employer Normal Cost Rate* Amortization of UAL Rate | 37.28% (3.86) | 36.70% (4.33) |
| Annual Required Contribution Rate (ARC) Estimated Fiscal Year End Covered Payroll | 33.42% \$126,024 | 32.37% \$128,328 |
| Fiscal Year District Payment before 1-907.02(c) Shortfall/Overpayment Fiscal Year District Payment | \$42,117 (8,054) \$34,063 | \$41,540 (3,391) \$38,149 |





SUMMARY OF PRINCIPAL RESULTS FOR POLICE OFFICERS' & FIREFIGHTERS' RETIREMENT PLAN (\$ IN THOUSANDS)

| VALUATION DATE | October 1, 2013 | October 1, 2012 |
|--|-----------------------------------|-----------------------------------|
| Number of Active Police Officers Annual Covered Payroll | 3,846 \$292,494 | 3,810 \$291,780 |
| Number of Active Firefighters Annual Covered Payroll | 1,664 \$120,886 | 1,700 \$123,097 |
| Total Number of Active Members Total Annual Covered Payroll | 5,510 \$413,380 | 5,510 \$414,877 |
| Number of Retired Members and Survivors Annual Retirement Benefits | 2,183 \$49,530 | 2,039 \$43,430 |
| Assets: Actuarial Value Market Value | \$4,013,534 \$4,168,457 | \$3,804,853 \$3,681,526 |
| Liabilities: Accrued Liability Unfunded Accrued Liability (UAL) | \$3,644,085 (\$369,449) | \$3,456,977 (\$347,876) |
| Funding Ratios: Based on Actuarial Value Based on Market Value | 110.14% 114.39% | 110.06 % 106.50 % |
| Amortization Period: | 19 years | 20 years |
| CONTRIBUTIONS FOR FISCAL YEAR ENDING | 09/30/2015 | 09/30/2014 |
| Employer Normal Cost Rate* Amortization of UAL Rate Annual Required Contribution Rate (ARC) | 33.69% (7.82) 25.87% | 33.34 % (7.15) 26.19 % |
| Estimated Fiscal Year End Covered Payroll | \$430,949 | \$432,509 |
| Fiscal Year District Payment before 1-907.02(c) Shortfall/Overpayment Fiscal Year District Payment | \$111,518 (8,088) \$103,430 | \$113,296 (2,530) \$110,766 |





- 2. The valuation balance sheet showing the results is given in Schedule A.
- 3. Comments on the valuation results as of October 1, 2013 are given in Section IV and further adjustments of the contribution amounts are set out in Section V.
- 4. Schedule B of this report shows the development of the actuarial value of assets. Schedule D outlines the full set of actuarial assumptions and methods employed.
- 5. The funding policy adopted by the Board in 2012 includes the following funding goals:
 - To maintain an increasing or stable ratio of Plan assets to accrued liabilities and reach a 100 percent minimum funded ratio;
 - To develop a pattern of stable or declining contribution rates when expressed as a percentage of member payroll as measured by valuations prepared in accordance with the principles of practice prescribed by the Actuarial Standards Board, with a minimum employer contribution equal to the lesser of the normal cost determined under the Entry Age Normal funding method and the current active member contribution rate.

The new funding policy not only states the overall funding goals and benchmarks for the Plan, but sets the methods and assumptions. The level dollar amortization period was set to 20 years in 2012 and will decline one year each year until a funded ratio of 100 percent is reached. The amortization period this year is 19 years.

- 6. The valuation takes into account the effect of the transfer of \$30,915,378 to the United States Treasury. The transfer represents the balance due for the difference in estimated district benefit payments and actual district benefit payments for the reconciliation period of October 1, 1997 to December 31, 2007
- 7. The valuation takes into account the effect of amendments to DCRB through the valuation date. The Main Provisions of DCRB, as summarized in Schedule E, were taken into account in the current valuation. No changes were made to the main provisions since the previous valuation.
- All membership data was collected as of July 1, 2013 but for valuation purposes (e.g. age, service) all members were treated as if remaining in the System as of October 1, 2013.





9. All amounts shown prior to October 1, 2010 were developed and/or reported by the prior actuarial firm.





SECTION II – MEMBERSHIP DATA

 Data regarding the membership of DCRB for use as a basis of the valuation were furnished by the District Government. The following table shows the number of active members and their annual compensation as of October 1, 2013 on the basis of which the valuation was prepared.

TABLE 1

THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS AS OF OCTOBER 1, 2013 (\$ IN THOUSANDS)

| GROUP | NUMBER | COMPENSATION |
|-----------------|----------|--------------|
| Teachers | 4,379 | \$369,071 |
| Police Officers | 3,846 | 292,494 |
| Firefighters | <u> </u> | <u> </u> |
| Total | 9,889 | \$782,451 |

2. The following table shows a five-year history of active member valuation data.

TABLE 2

SCHEDULE OF TOTAL ACTIVE MEMBER VALUATION DATA

| VALUATION DATE | NUMBER | ANNUAL PAYROLL (\$ IN THOUSANDS) | ANNUAL AVERAGE PAY | % CHANGE IN AVERAGE PAY |
|-------------------|--------|--|-----------------------|----------------------------|
| 10/01/2013 | 9,889 | \$ 782,451 | \$ 79,123 | (0.56)% |
| 10/01/2012 | 10,005 | 796,112 | 79,571 | 1.81 |
| 10/01/2011 | 10,308 | 805,676 | 78,160 | 7.35 |
| 10/01/2010 | 10,457 | 761,370 | 72,810 | (2.11) |
| 10/01/2009 | 10,389 | 772,700 | 74,377 | (0.18) |





3. The following table shows the number and annual retirement benefits payable to retired members and survivors on the roll of DCRB as of the valuation date.

TABLE 3

THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF RETIRED MEMBERS AND SURVIVORS OF DECEASED MEMBERS ON THE ROLL AS OF OCTOBER 1, 2013 (\$ IN THOUSANDS)

| | GROUP | | | |
|-----------------------|----------|--------------------|--------------|-----------|
| TYPE OF RETIREMENT | TEACHERS | POLICE OFFICERS | FIREFIGHTERS | TOTAL |
| Service: | | | | |
| Number | 3,215 | 973 | 414 | 4,602 |
| Annual Benefits | \$49,582 | \$21,416 | \$11,584 | \$82,582 |
| Disability: | | | | |
| Number | 119 | 283 | 68 | 470 |
| Annual Benefits | \$2,632 | \$8,459 | \$1,492 | \$12,583 |
| Survivors: | | | | |
| Number | 114 | 328 | 117 | 559 |
| Annual Benefits | \$752 | \$4,517 | \$2,062 | \$7,331 |
| Total: | | | | |
| Number | 3,448 | 1,584 | 599 | 5,631 |
| Annual Benefits | \$52,966 | \$34,392 | \$15,138 | \$102,496 |

DISTRICT ONLY

*In addition, there are 1,138 deferred vested participants with annual deferred benefits of \$14,580,186.





TABLE 4

THE NUMBER AND ANNUAL RETIREMENT BENEFITS OF RETIRED MEMBERS AND SURVIVORS OF DECEASED MEMBERS ON THE ROLL AS OF OCTOBER 1, 2013 (\$ IN THOUSANDS)

| GROUP | | | OUP | |
|-----------------------|-----------|--------------------|--------------|-----------|
| TYPE OF RETIREMENT | TEACHERS | POLICE OFFICERS | FIREFIGHTERS | TOTAL |
| Service: Number | 5,379 | 3,248 | 1,051 | 9,678 |
| Annual Benefits | \$243,885 | \$184,194 | \$70,374 | \$498,453 |
| Disability: | | | | |
| Number | 367 | 1,079 | 400 | 1,846 |
| Annual Benefits | \$11,210 | \$45,059 | \$19,081 | \$75,350 |
| Survivors: | | | | |
| Number | 426 | 1,368 | 543 | 2,337 |
| Annual Benefits | \$8,596 | \$38,246 | \$16,065 | \$62,907 |
| Total: | | | | |
| Number | 6,172 | 5,695 | 1,994 | 13,861 |
| Annual Benefits | \$263,691 | \$267,499 | \$105,520 | \$636,710 |

FEDERAL PLUS DISTRICT

4. Tables 4 through 6 of Schedule F show the distribution by age and service of the number and annual compensation of active members for each plan included in the valuation. Tables 7 through 12 of Schedule F show the distribution by age of the number and annual benefits of retired members for each plan included in the valuation.





SECTION III - ASSETS

1. Schedule C shows the additions and deductions of DCRB for the year preceding the valuation date and a reconciliation of the fund balances at market value. As of October 1, 2013, the market value of assets used to determine the actuarial value of assets for each plan is shown below:

TABLE 5

COMPARISON OF MARKET VALUE OF ASSETS AT OCTOBER 1, 2013 AND OCTOBER 1, 2012 (\$ IN THOUSANDS)

| FUND | OCTOBER 1, 2013 MARKET VALUE | OCTOBER 1, 2012 MARKET VALUE |
|----------------------------------|---------------------------------|---------------------------------|
| Teachers | \$1,622,376 | \$1,503,346 |
| Police Officers and Firefighters | 4,168,457 | 3,681,527 |
| Total Market Value of Assets | \$5,790,833 | \$5,184,873 |

 The seven-year market related actuarial value of assets used for the current valuation was \$5,599,308,883. Schedule B shows the development of the actuarial value of assets as of October 1, 2013. The following table shows the actuarial value of assets allocated among each plan.

TABLE 6

COMPARISON OF ACTUARIAL VALUE OF ASSETS AT OCTOBER 1, 2013 AND OCTOBER 1, 2012 (\$ IN THOUSANDS)

| FUND | OCTOBER 1, 2013 ACTUARIAL VALUE | OCTOBER 1, 2012 ACTUARIAL VALUE |
|----------------------------------|------------------------------------|------------------------------------|
| Teachers | \$1,585,775 | \$1,585,626 |
| Police Officers and Firefighters | 4.013.534 | <u> </u> |
| Total Actuarial Value of Assets | \$5,599,309 | \$5,390,479 |





SECTION IV - COMMENTS ON VALUATION

Teachers' Retirement Plan

- 1. The total valuation balance sheet on account of benefits shows that the Teachers' Retirement Plan has total prospective benefit liabilities of \$2,165,473,424, of which \$788,292,120 is for the prospective benefits payable on account of present retired members and survivors of deceased members, \$95,203,214 is for the prospective benefits payable on account of present inactive members, and \$1,281,978,090 is for the prospective benefits payable on account of present active members. Against these benefit liabilities the Teachers' Retirement Plan has a total present actuarial value of assets of \$1,585,774,613 as of October 1, 2013. The difference of \$579,698,811 between the total liabilities and the total present actuarial value of assets represents the present value of contributions to be made in the future on account of benefits.
- 2. The contributions to the Plan consist of normal cost contributions and accrued liability contributions. The valuation indicates the normal contributions at a rate of 12.82% of payroll are required under the entry age method. Of this amount 7.73% will be paid by the members (at the rate of 7.0% of salary for members hired before November 1, 1996 and 8.0% of salary for members hired on or after November 1, 1996), in 2015 and the remaining 5.09% is payable by the District.
- Beginning with the October 1, 2012 valuation, estimated budgeted administrative expenses are included in the normal rates. The expenses for the fiscal year ending September 30, 2015 are estimated to be 1.20% of payroll.
- 4. Prospective normal cost contributions (excluding administrative expenses) at the rate of 12.82% have a present value of \$406,430,605. When this amount is subtracted from \$579,698,811, which is the present value of total future contributions to be made, there remains \$173,268,206 as the amount of unfunded accrued liability contributions. The development of the unfunded accrued liability is shown in Schedule A.





Police Officers' and Firefighters' Retirement Plan

- 1. The total valuation balance sheet on account of benefits shows that the combined Police Officers' and Firefighters' Retirement Plan has total prospective benefit liabilities of \$5,696,638,455, of which \$912,515,940 is for the prospective benefits payable on account of present retired members and survivors of deceased members, \$54,345,883 is for the prospective benefits payable on account of present inactive members, and \$4,729,776,632 is for the prospective benefits payable on account of present active members. Against these benefit liabilities the Police Officers' and Firefighters' Retirement Plan has a total present actuarial value of assets of \$4,013,534,269 as of October 1, 2013. The difference of \$1,683,104,186 between the total liabilities and the total present actuarial value of assets represents the present value of contributions to be made in the future on account of benefits.
- 2. The contributions to the Plan consist of normal cost contributions and accrued liability contributions. The valuation indicates the normal contributions at a rate of 40.00% of payroll are required under the entry age method. Of this amount 7.51% will be paid by the members (at the rate of 7.0% of salary for members hired before November 1, 1996 and 8.0% of salary for members hired on or after November 1, 1996), in 2015 and the remaining 32.49% is payable by the District.
- 3. Beginning with the October 1, 2012 valuation, estimated budgeted administrative expenses are included in the normal rates. The expenses for the fiscal year ending September 30, 2015 are estimated to be 1.20% of payroll.
- 4. Prospective normal cost contributions (excluding administrative expenses) at the rate of 40.00% have a present value of \$2,052,553,504. When this amount is subtracted from \$1,683,104,186, which is the present value of total future contributions to be made, there remains (\$369,449,318) as the amount of unfunded accrued liability contributions. The development of the unfunded accrued liability is shown in Schedule A.





SECTION V - §1-907.02(c) ADJUSTMENT TO FISCAL YEAR 2015 DISTRICT PAYMENT

- Beginning in fiscal year 2001, the District payment was adjusted pursuant to D.C. Code §1-907.02(c). This section stipulates that "...the enrolled actuary shall determine whether the amount appropriated for the applicable fiscal year resulted in an overpayment or a shortfall based upon the actual covered payroll."
- 2. The D.C. Code §1-907.02(c) adjustment to the fiscal year 2015 District payment is calculated by taking the actual fiscal year 2013 covered payroll for each employee class (which is provided by the District) and multiplying by the corresponding fiscal year 2013 contribution rates, which were determined as of October 1, 2011. This result is the fiscal year 2013 contribution that was required to be made by the District, based on actual payroll. The required contribution is then compared to the actual contribution that was paid by the District based on projected payroll. The difference between the required and actual contributions is the D.C. Code §1-907.02(c) adjustment. Any adjustment amount that cannot be used in a given year is carried forward to the next fiscal year.

| | Teachers | Police | Fire |
|--|-----------|-----------|-----------|
| (1) Actual FY 2013 Covered Payroll | \$369,071 | \$292,494 | \$120,886 |
| (2) FY 2013 Contribution Rate | 1.60% | 20.24% | 24.01% |
| (3) Actual FY 2013 Contribution Required | \$5,905 | \$59,201 | \$29,025 |
| (4) Actual FY 2013 Contribution Paid | \$6,407 | \$59,235 | \$37,079 |
| (5) Preliminary D.C. Code §1-907.02(c) Adjustment to FY 2015 Payment [(3) - (4)] | (\$502) | (\$34) | (\$8,054) |
| (6) FY 2014 Unrecognized Amount | \$0 | \$0 | \$0 |
| (7) Final D.C. Code §1-907.02(c) Adjustment to FY 2015 Payment [(5) + (6) if applicable] | (\$502) | (\$34) | (\$8,054) |
| (8) Applicable Adjustment | (\$502) | (\$34) | (\$8,054) |
| (9) Carryover Adjustment [(7) - (8)] | \$0 | \$0 | \$0 |

ADJUSTMENT TO DISTRICT PAYMENT AS OF OCTOBER 1, 2013 (\$ IN THOUSANDS)





SECTION VI - CONTRIBUTIONS PAYABLE

- 1. The following tables summarize the employer contribution rates, which were determined by the October
 - 1, 2013 valuation and recommended for use for the fiscal year ending September 30, 2015.

TEACHERS' RETIREMENT PLAN ANNUAL REQUIRED CONTRIBUTIONS (ARC) FOR FISCAL YEAR ENDING SEPTEMBER 30, 2015

| | PERCENTAGE OF ACTIVE MEMBERS' COMPENSATION | EMPLOYER ANNUAL REQUIRED CONTRIBUTION (ARC) |
|--------------------|--|---|
| Normal Cost | 5.09% | \$19,584,000 |
| Expense Load | 1.20 | 4,617,000 |
| Accrued Liability | <u>4.11</u> | <u>15,814,000</u> |
| Sub-Total | 10.40% | \$40,015,000 |
| DC Code Adjustment | | <u>(502,000)</u> |
| Total | | \$39,513,000 |

POLICE OFFICERS' AND FIREFIGHTERS' RETIREMENT PLAN ANNUAL REQUIRED CONTRIBUTIONS (ARC) FOR FISCAL YEAR ENDING SEPTEMBER 30, 2015

| | PERCENTAGE OF ACTIVE MEMBERS' COMPENSATION | EMPLOYER ANNUAL REQUIRED CONTRIBUTION (ARC) |
|--------------------|--|---|
| Normal Cost | 32.49% | \$140,026,000 |
| Expense Load | 1.20 | 5,171,000 |
| Accrued Liability | <u>(7.82)</u> | <u>(33,680,000)</u> |
| Sub-Total | 25.87% | \$111,518,000 |
| DC Code Adjustment | | <u>(8,088,000)</u> |
| Total | | \$103,430,000 |





SECTION VII - ACCOUNTING INFORMATION

 Governmental Accounting Standards Board Statements 25 and 27 set forth certain items of required supplementary information to be disclosed in the financial statements of DCRB and the employer. One such item is a distribution of the number of employees by type of membership, as follows:

| GROUP | RETIREMENT PLAN | | | |
|--|-----------------|--------------------|--------------|--------|
| | Teachers | Police Officers | Firefighters | Total |
| Retirees and survivors currently receiving benefits | 3,448 | 1,584 | 599 | 5,631 |
| Terminated employees entitled to benefits but not yet receiving benefits | 912 | 140 | 86 | 1,138 |
| Inactive Members | 1,350 | 60 | 38 | 1,448 |
| Active Members | | | | |
| Vested | 2,212 | 3,281 | 1,481 | 6,974 |
| Non-vested | 2,167 | <u> </u> | 183_ | 2,915 |
| Total Active Members | 4,379 | 3,846 | 1,664 | 9,889 |
| Totals | 10,089 | 5,630 | 2,387 | 18,106 |

NUMBER OF ALL MEMBERS AS OF OCTOBER 1, 2013





2. Another such item is the schedule of funding progress as shown below.

| Actuarial Valuation Date | Actuarial Value of Plan Assets (a) | Actuarial Accrued Liability (AAL) Entry Age (b) | Unfunded AAL (UAAL) (b-a) | Funded Ratio (a / b) | Covered Payroll (c) | UAAL as a Percentage of Covered Payroll ((b – a)/c) |
|---|---|---|--|---|---|--|
| | | TEACHER | S' RETIREME | NT PLAN* | | |
| 10/1/2009 10/1/2010 10/1/2011 10/1/2012 10/1/2013 | \$1,445,000 1,570,968 1,573,654 1,585,626 1,585,775 | \$1,304,500 1,328,299 1,544,864 1,680,548 1,759,043 | (\$140,500) (242,669) (28,790) 94,922 173,268 | 110.8 % 118.3 % 101.9 % 94.4 % 90.1 % | \$336,600 337,516 384,455 381,235 369,071 | (41.7)% (71.9)% (7.5)% 24.9 % 46.9 % |
| | POLICE | OFFICERS' AND | FIREFIGHTE | RS' RETIREN | IENT PLAN* | |
| 10/1/2009 10/1/2010 10/1/2011 10/1/2012 10/1/2013 | \$3,048,400 3,418,796 3,593,716 3,804,853 4,013,534 | \$3,027,900 3,166,830 3,309,825 3,456,976 3,644,085 | (\$20,500) (251,966) (283,891) (347,877) (369,449) | 100.7 % 108.0 % 108.6 % 110.1 % 110.1 % | \$436,100 423,854 421,221 414,877 413,380 | (4.7)% (59.4)% (67.4)% (83.9)% (89.4)% |

SCHEDULE OF FUNDING PROGRESS* (\$ IN THOUSANDS)

* Results prior to 10/1/2010 were reported by the prior actuary.





3. The information presented in the required supplementary schedules was determined as part of the actuarial valuation at October 1, 2013.

| | Teachers | Police Officers & Firefighters |
|-------------------------------|---|--|
| Valuation Date | 10/1/2013 | 10/1/2013 |
| Actuarial cost method | Entry Age Normal | Entry Age Normal |
| Amortization method | Level Dollar Closed | Level Dollar Closed |
| Remaining amortization period | 19 years | 19 years |
| Asset valuation method | 7 year smoothed Market | 7 year smoothed Market |
| Actuarial assumptions: | | |
| Investment rate of return* | 6.50% | 6.50% |
| Projected salary increases** | 4.45 – 8.25% | 4.75 – 9.25% |
| Cost of living adjustments: | 3.50% (COLA limited to 3.00% for those hired after 11/1/1996) | 3.50% (COLA limited to 3.00% for those hired after 11/10/1996) |

* Includes inflation of 3.50%.** Includes wage inflation of 4.25%.





SCHEDULE OF EMPLOYER CONTRIBUTIONS

| Fiscal Year Ending | Annual Required Contribution in Dollars (\$ in millions) | Annual Required Contribution as a Percent of Total Payroll | Percent of ARC Contributed | | |
|-----------------------|--|--|----------------------------------|--|--|
| | Teachers' Re | tirement Plan | | | |
| | | | | | |
| 9/30/2009 | \$0.0 | 0.00 % | 100 % | | |
| 9/30/2010 | 0.0 | 0.00 % | 100 % | | |
| 9/30/2011 | 0.0 | 0.00 % | 100 % | | |
| 9/30/2012 | 0.0 | 0.00 % | 100 % | | |
| 9/30/2013 | 6.4 | 1.59 % | 100 % | | |
| | Police Officers' & Firefighters' Retirement Plan | | | | |
| | | | | | |
| 9/30/2009 | \$106.0 | 24.31 % | 100 % | | |
| 9/30/2010 | 132.3 | 31.21 % | 100 % | | |
| 9/30/2011 | 127.2 | 30.20 % | 100 % | | |
| 9/30/2012 | 116.7 | 28.13 % | 100 % | | |
| 9/30/2013 | 96.3 | 22.06 % | 100 % | | |
| | • | t | | | |





SECTION VIII – EXPERIENCE

Actual experience will never (except by coincidence) coincide exactly with assumed experience. It is assumed that gains and losses will be in balance over a period of years, but sizable year to year fluctuations are common. Detail on the derivation of the experience gain/(loss) for the year ended September 30, 2013 is shown below.

Teachers' Retirement Plan

| | | <u> \$ Thousands</u> |
|------|--|----------------------|
| (1) | UAAL* as of October 1, 2012 | \$ 94,922 |
| (2) | Total normal cost from last valuation | 47,089 |
| (3) | Total actual contributions | 34,536 |
| (4) | Interest accrual: (1) x .065 + [[(2) – (3)] x .0325] | 6,578 |
| (5) | Expected UAAL before changes: $(1) + (2) - (3) + (4)$ | \$ 114,053 |
| (6) | Change due to transfer to U.S. Treasury | 21,503 |
| (7) | Change due to actuarial assumptions or methods | 0 |
| (8) | Expected UAAL after changes: (5) + (6) + (7) | \$ 135,556 |
| (9) | Actual UAAL as of October 1, 2013 | \$ 173,268 |
| (10) | Gain/(loss): (8) – (9) | \$ (37,712) |
| (11) | Gain/(loss) as percent of actuarial accrued liabilities at start of year (\$1,680,548) | (2.2)% |

*Unfunded actuarial accrued liability.

| Beginning Accrued Liabilities |
|-------------------------------|
| (6.5)% |
| (2.2) |
| |





Police Officers' and Firefighters' Retirement Plan

| | | <u> \$ Thousands</u> |
|------|--|----------------------|
| (1) | UAAL* as of October 1, 2012 | \$ (347,877) |
| (2) | Total normal cost from last valuation | 164,380 |
| (3) | Total actual contributions | 126,895 |
| (4) | Interest accrual: (1) x .065 + [[(2) – (3)] x .0325] | (21,394) |
| (5) | Expected UAAL before changes: $(1) + (2) - (3) + (4)$ | \$ (331,785) |
| (6) | Change due to transfer to U.S. Treasury | 9,412 |
| (7) | Change due to actuarial assumptions or methods | 0 |
| (8) | Expected UAAL after changes: (5) + (6) + (7) | \$ (322,373) |
| (9) | Actual UAAL as of October 1, 2013 | \$ (369,449) |
| (10) | Gain/(loss): (8) – (9) | \$ 47,077 |
| (11) | Gain/(loss) as percent of actuarial accrued liabilities at start of year (\$3,456,977) | 1.4% |

*Unfunded actuarial accrued liability.

| Valuation Date September 30 | Actuarial Gain/(Loss) as a % of Beginning Accrued Liabilities |
|-----------------------------|--|
| 2012 | 1.3% |
| 2013 | 1.4 |





SCHEDULE A

VALUATION BALANCE SHEET SHOWING THE PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES OF THE DISTRICT OF COLUMBIA RETIREMENT BOARD AS OF OCTOBER 1, 2013

TEACHERS' RETIREMENT PLAN

| PRESENT AND PROSI | PECTIVE ASSETS | |
|---|-------------------------------------|------------------------|
| Actuarial Value of Present Assets | | 1,585,774,613 |
| Present value of future members' contributions | | 237,541,771 |
| Present value of future employer contributions | | |
| Normal contributions Unfunded accrued liability contributions | \$168,888,834 <u>173,268,206</u> | |
| Total prospective employer contributions | | <u>342,157,040</u> |
| Total Present and Prospective Assets | | <u>\$2,165,473,424</u> |
| ACTUARIAL LI | ABILITIES | |
| Present value of benefits payable on account of retired members and survivors of deceased members now drawing retirement benefits | | \$788,292,120 |
| Present value of prospective benefits payable on account of inactive members | | 95,203,214 |
| Present value of prospective benefits payable on account of present active members: | | |
| Service retirement benefits | \$1,131,557,132 | |
| Disability retirement benefits Survivor benefits | 30,584,450 | |
| Survivor benefits Separation benefits | 16,280,883 <u>103,555,625</u> | |
| Total | | <u>1.281.978.090</u> |
| Total Actuarial Liabilities | | <u>\$2,165,473,424</u> |





SCHEDULE A (Continued)

VALUATION BALANCE SHEET SHOWING THE PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES OF THE DISTRICT OF COLUMBIA RETIREMENT BOARD AS OF OCTOBER 1, 2013

POLICE OFFICERS' & FIREFIGHTERS' RETIREMENT PLAN

| PRESENT AND PROSI | PRESENT AND PROSPECTIVE ASSETS | | | | | | |
|---|---|-------------------------|--|--|--|--|--|
| Actuarial Value of Present Assets | | 4,013,534,269 | | | | | |
| Present value of future members' contributions | | 346,319,201 | | | | | |
| Present value of future employer contributions | | | | | | | |
| Normal contributions Unfunded accrued liability contributions | \$1,706,234,303 (369,449,318) | | | | | | |
| Total prospective employer contributions | | <u>1,336,784,985</u> | | | | | |
| Total Present and Prospective Assets | | <u>\$5.696.638.455</u> | | | | | |
| ACTUARIAL LI | ABILITIES | | | | | | |
| Present value of benefits payable on account of retired members and survivors of deceased members now drawing retirement benefits | | \$912,515,940 | | | | | |
| Present value of prospective benefits payable on account of inactive members | | 54,345,883 | | | | | |
| Present value of prospective benefits payable on account of present active members: Service retirement benefits Disability retirement benefits Survivor benefits Separation benefits | \$4,292,161,909 289,773,378 80,873,565 <u>66,967,780</u> | | | | | | |
| Total | <u></u> | <u>4,729,776,632</u> | | | | | |
| Total Actuarial Liabilities | | <u>\$5,696,638,455.</u> | | | | | |





SCHEDULE A (continued)

SOLVENCY TEST (\$ IN THOUSANDS)

| | Aggregate Accrued Liabilities For* | | | | | Portion of Accrued Liabilities Covered by Reported Asset | | | |
|-------------------|--|--|---|--------------------|------|---|--------|--|--|
| Valuation Date | (1) Active Member Contributions | (2) Retirees, Survivors and Inactive Members | (3) Active Members (Employer Financed Portion) | Reported Assets | (1) | (2) | (3) | | |
| | | TE | ACHERS' RETIREMEN | T PLAN | | | | | |
| 10/1/2009 | \$335,481 | \$995,361 | \$3,001,587 | \$3,743,000 | 100% | 100.0% | 80.4% | | |
| 10/1/2010 | 136,055 | 622,253 | 569,991 | 1,314,357 | 100% | 100.0% | 97.6% | | |
| 10/1/2011 | 138,874 | 718,884 | 687,107 | 1,340,725 | 100% | 100.0% | 70.3% | | |
| 10/1/2012 | 137,698 | 819,842 | 723,008 | 1,503,346 | 100% | 100.0% | 75.5% | | |
| 10/1/2013 | 141,792 | 883,495 | 733,756 | 1,622,376 | 100% | 100.0% | 81.4% | | |
| | F | POLICE OFFICER | s' and firefighter: | S' RETIREMENT | PLAN | | | | |
| 10/1/2009 | \$335,481 | \$995,361 | \$3,001,587 | \$3,743,000 | 100% | 100.0% | 80.4% | | |
| 10/1/2010 | 211,961 | 583,338 | 2,371,531 | 2,920,790 | 100% | 100.0% | 89.6% | | |
| 10/1/2011 | 224,928 | 708,364 | 2,376,533 | 3,127,496 | 100% | 100.0% | 92.3% | | |
| 10/1/2012 | 235,924 | 849,982 | 2,371,070 | 3,681,526 | 100% | 100.0% | 100.0% | | |
| 10/1/2013 | 247,202 | 966,862 | 2,430,021 | 4,168,457 | 100% | 100.0% | 100.0% | | |

*Prior to 10/1/2010, the results are shown in aggregate and were reported by the prior actuary.





SCHEDULE B

DEVELOPMENT OF THE OCTOBER 1, 2013 ACTUARIAL VALUE OF ASSETS

TEACHERS' RETIREMENT PLAN

| (1) | Actuarial Value Beginning of Year* | \$ | 1,585,626,043 |
|------|--|----|---------------|
| | Market Value End of Year | \$ | 1,622,375,617 |
| (2) | | | |
| (3) | Market Value Beginning of Year | \$ | 1,503,345,631 |
| (4) | Cash Flow | | |
| | a. Contributions | \$ | 34,535,791 |
| | b. Benefit Payments, Refunds, and Transfers | | (80,932,675) |
| | c. Administrative Expenses | | (3,499,976) |
| | d. Net Cash Flow: [(4)a + (4)b + (4)c] | \$ | (49,896,860) |
| (5) | Investment Income | | |
| | a. Market total: (2) – (3) – (4)d | \$ | 168,926,846 |
| | b. Assumed Rate | | 6.50% |
| | c. Amount of Immediate Recognition | \$ | 96,095,818 |
| | d. Amount for Phased-in Recognition: (5)a – (5)c | \$ | 72,831,028 |
| (6) | Phased-In Recognition of Investment Income | | |
| | a. Current Year: (1/7) x (5)d | \$ | 10,404,433 |
| | b. First Prior Year | | 13,523,532 |
| | c. Second Prior Year | | (6,589,080) |
| | d. Third Prior Year | | 5,834,740 |
| | e. Fourth Prior Year | | (17,509,865) |
| | f. Fifth Prior Year | | (51,242,786) |
| | g. Sixth Prior Year | | 0 |
| | h. Total Recognized Investment Gain | \$ | (45,579,026) |
| (7) | Preliminary Actuarial Value End of Year: | | |
| | (1) + (4)d + (5)c + (6)h | \$ | 1,586,245,975 |
| (8) | Actuarial Value End of Year with 20% Corridor Applied: | \$ | 1,586,245,975 |
| (9) | Present Value of DC Code Adjustment | \$ | (471,362) |
| (10) | Final Actuarial Value End of Year: (8) + (9) | \$ | 1,585,774,613 |

*Prior to any corridor restraints.





SCHEDULE B (Continued)

DEVELOPMENT OF THE OCTOBER 1, 2013 ACTUARIAL VALUE OF ASSETS

POLICE OFFICERS' & FIREFIGHTERS' RETIREMENT PLAN

| (1) | Actuarial Value Beginning of Year* | \$ 3,804,853,391 |
|------|--|---------------------|
| (2) | Market Value End of Year | \$ 4,168,456,920 |
| (3) | Market Value Beginning of Year | \$ 3,681,525,782 |
| (4) | Cash Flow | |
| | a. Contributions | \$ 126,894,528 |
| | b. Benefit Payments, Refunds, and Transfers | (57,006,869) |
| | c. Administrative Expenses | (8,571,174) |
| | d. Net Cash Flow: [(4)a + (4)b + (4)c] | \$ 61,316,485 |
| (5) | Investment Income | |
| | a. Market total: (2) – (3) – (4)d | \$ 425,614,653 |
| | b. Assumed Rate | 6.50% |
| | c. Amount of Immediate Recognition | \$ 241,291,962 |
| | d. Amount for Phased-in Recognition: (5)a – (5)c | \$ 184,322,691 |
| (6) | Phased-In Recognition of Investment Income | |
| | a. Current Year: (1/7) x (5)d | \$ 26,331,813 |
| | b. First Prior Year | 32,104,476 |
| | c. Second Prior Year | (18,159,945) |
| | d. Third Prior Year | 12,440,209 |
| | e. Fourth Prior Year | (34,598,041) |
| | f. Fifth Prior Year | (101,921,714) |
| | g. Sixth Prior Year | 0 |
| | h. Total Recognized Investment Gain | \$ (83,803,202) |
| (7) | Preliminary Actuarial Value End of Year: | |
| | (1) + (4)d + (5)c + (6)h | \$ 4,023,658,636 |
| (8) | Actuarial Value End of Year with 20% Corridor Applied: | \$ 4,023,658,636 |
| (9) | Present Value of DC Code Adjustment | \$ (10,124,366) |
| (10) | Final Actuarial Value End of Year: (8) + (9) | \$ 4,013,534,269 |

*Prior to any corridor restraints.





SCHEDULE C

SUMMARY OF CHANGES IN NET ASSETS FOR THE YEAR ENDING OCTOBER 1, 2013

TEACHERS' RETIREMENT PLAN

| Additions for the Year | | | |
|---|-----------------------------------|----|---------------|
| Contributions: | | | |
| Members (including purchased service) Employers | \$ 28,128,791 6,407,000 | - | |
| Total | | \$ | 34,535,791 |
| Net Investment Income | | | 168,926,846 |
| TOTAL | | \$ | 203,462,637 |
| Deductions for the Year | | | |
| Benefit Payments (including refunds and transfers) Administrative Expenses | \$ (80,932,675) (3,499,976) | - | |
| TOTAL | | \$ | (84,432,651) |
| Excess of Additions Over Deductions | | \$ | 119,029,986 |
| Reconciliation of Asset Balances | | | |
| Market Value of Assets as of 9/30/2012 | | \$ | 1,503,345,631 |
| Excess of Additions over Deductions | | | 119,029,986 |
| Market Value of Assets as of 9/30/2013* | | \$ | 1,622,375,617 |

* The Market Value of Assets shown above is used in the determination of the Actuarial Value of Assets (Schedule B).





SCHEDULE C (Continued)

SUMMARY OF CHANGES IN NET ASSETS FOR THE YEAR ENDING OCTOBER 1, 2013

POLICE OFFICERS' & FIREFIGHTERS' RETIREMENT PLAN

| Net Investment Income 425,614,6 TOTAL \$ 552,509,1 Deductions for the Year \$ (57,006,869) Administrative Expenses (8,571,174) TOTAL \$ (65,578,0) Excess of Additions Over Deductions \$ 486,931,1 Reconciliation of Asset Balances \$ 3,681,525,7 | Contributions: | | | |
|---|--|--------------------|----|---------------|
| Total \$ 126,894,5 Net Investment Income 425,614,6 TOTAL \$ 552,509,1 Deductions for the Year \$ 552,509,1 Deductions for the Year \$ (57,006,869) Administrative Expenses (8,571,174) TOTAL \$ (65,578,0) Excess of Additions Over Deductions \$ 486,931,1 Reconciliation of Asset Balances \$ 3,681,525,7 Market Value of Assets as of 9/30/2012 \$ 3,681,525,7 | Members (including purchased service) | \$ 30,580,528 | | |
| Net Investment Income 425,614,6 TOTAL \$ 552,509,1 Deductions for the Year \$ (57,006,869) Benefit Payments (including refunds and transfers) \$ (57,006,869) Administrative Expenses (8,571,174) TOTAL \$ (65,578,0) Excess of Additions Over Deductions \$ 486,931,1 Reconciliation of Asset Balances \$ 3,681,525,7 | Employers | 96,314,000 | - | |
| TOTAL \$ 552,509,1 Deductions for the Year \$ (57,006,869) Administrative Expenses (8,571,174) TOTAL \$ (65,578,0) Excess of Additions Over Deductions \$ 486,931,1 Reconciliation of Asset Balances \$ 3,681,525,7 | Total | | \$ | 126,894,528 |
| Deductions for the Year Benefit Payments (including refunds and transfers) \$ (57,006,869) Administrative Expenses (8,571,174) TOTAL \$ (65,578,0) Excess of Additions Over Deductions \$ 486,931,1 Reconciliation of Asset Balances \$ 3,681,525,7 | Net Investment Income | | | 425,614,653 |
| Benefit Payments (including refunds and transfers) \$ (57,006,869) Administrative Expenses (8,571,174) TOTAL \$ (65,578,0) Excess of Additions Over Deductions \$ 486,931,1 Reconciliation of Asset Balances \$ 3,681,525,7 | TOTAL | | \$ | 552,509,181 |
| Administrative Expenses (8,571,174) TOTAL \$ (65,578,0) xcess of Additions Over Deductions \$ 486,931,1 econciliation of Asset Balances \$ 3,681,525,7 Market Value of Assets as of 9/30/2012 \$ 3,681,525,7 | eductions for the Year | | | |
| TOTAL \$ (65,578,0 xccess of Additions Over Deductions \$ 486,931,1 econciliation of Asset Balances \$ 3,681,525,7 Market Value of Assets as of 9/30/2012 \$ 3,681,525,7 | Benefit Payments (including refunds and transfers) | \$ (57,006,869) | | |
| xcess of Additions Over Deductions \$ 486,931,1 // econciliation of Asset Balances Market Value of Assets as of 9/30/2012 \$ 3,681,525,7 | Administrative Expenses | (8,571,174) | - | |
| Acconciliation of Asset Balances Market Value of Assets as of 9/30/2012 \$ 3,681,525,7 | TOTAL | | \$ | (65,578,043 |
| Market Value of Assets as of 9/30/2012 \$ 3,681,525,7 | xcess of Additions Over Deductions | | \$ | 486,931,138 |
| | econciliation of Asset Balances | | | |
| Excess of Additions over Deductions 486.931.1 | Market Value of Assets as of 9/30/2012 | | \$ | 3,681,525,782 |
| | Excess of Additions over Deductions | | | 486,931,138 |

* The Market Value of Assets shown above is used in the determination of the Actuarial Value of Assets (Schedule B).





OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS (DEMOGRAPHIC ASSUMPTIONS ADOPTED ON OCTOBER 20, 2011) (ECONOMIC ASSUMPTIONS ADOPTED ON NOVEMBER 15, 2012)

VALUATION DATE: All assets and liabilities are computed as of October 1, 2013. Demographic information was collected as of June 30, 2013.

INVESTMENT RATE OF RETURN: 6.50% per annum, compounded annually (net of investment expenses).

INFLATION ASSUMPTION: 3.50% per annum.

PAYROLL GROWTH ASSUMPTION: 4.25% per annum.

PERCENT MARRIED: 64% of Teachers are assumed to be married and 80% of Police Officers and Firefighters are assumed to be married, with the wife 3 years younger than the husband. Active members are assumed to have one dependent child aged 10.

ACTUARIAL METHOD: Entry Age Normal Cost Method.

ASSETS: The method of valuing assets is intended to recognize a "smoothed" market value of assets. Under this method, the difference between actual return on market value from investment experience and the expected return on market value is recognized over a seven-year period. The actuarial value of assets is constrained to an 80% to 120% corridor around market value of assets. In addition, there is an adjustment made for the effect of the adjustment pursuant to D.C. Code §1-907.02(c).

WITHDRAWAL ASSUMPTION: For Teachers, it was assumed that 35% of the vested members who terminate elect to withdraw their contributions while the remaining 65% elect to leave their contributions in the plan in order to be eligible for a benefit at their retirement date. For Police Officers and Firefighters, it was assumed that 80% of the vested members who terminate elect to withdraw their contributions while the remaining 20% elect to leave their contributions in the plan.

OTHER ASSUMPTIONS: To value the pre-retirement death benefit for Police Officers and Firefighters, the benefit form for all retirements (normal or disabled) is assumed to be a 67.8% Joint and Survivor annuity for all participants (based on 40% of average pay survivor benefits). One-fourth of all Police Officer and Firefighter active deaths are assumed to occur in the line of duty.

COST OF LIVING ADJUSTMENT: The cost of living as measured by the Consumer Price Index (CPI) will increase at the rate of 3.5% per year.

MILITARY SERVICE: All Police and Fire members assumed to have 0.40 years of military service at retirement.

ADMINISTRATIVE EXPENSES: Budgeted administrative expenses of 1.20% of payroll are added to the normal cost rate.





(Continued)

TEACHERS

SALARY INCREASES: Representative values of the assumed annual rates of future salary increases are as follows and include inflation at 4.25% per annum:

| | | ay Increase Assumption | |
|---------------------|----------------------|--|----------------------------------|
| Years of Service | Merit & Seniority | Inflation & Productivity (Economy) | Total Increase (Next Year) |
| 5 | 4.00% | 4.25% | 8.25% |
| 10 | 3.00 | 4.25 | 7.25 |
| 15 | 0.50 | 4.25 | 4.75 |
| 20 | 0.20 | 4.25 | 4.45 |
| 25 | 0.20 | 4.25 | 4.45 |
| 30 | 0.20 | 4.25 | 4.45 |
| 35 | 0.20 | 4.25 | 4.45 |

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed annual rates of withdrawal, service retirement, and disability are shown in the following tables:

| Percent of Members Separating Within the Next Year | | | | | | |
|---|--------------------------|--------------------------|---------------------------|-------------------------|------------------------|--------------------------|
| | | Withdrawal | | Service | Retirement | |
| Sample Ages | 0 to 3 yrs of service | 4 to 9 yrs of service | 10 & up yrs of service | Under 30 yrs service | 30 & up yrs service | Disability Retirement |
| 20 | 25.0% | 20.0% | 0.00% | | | 0.03% |
| 25 | 23.5 | 20.0 | 0.00 | | | 0.03 |
| 30 | 22.0 | 16.0 | 3.75 | | | 0.05 |
| 35 | 20.5 | 14.0 | 3.75 | | | 0.07 |
| 40 | 19.0 | 12.0 | 3.75 | | | 0.09 |
| 45 | 17.5 | 10.0 | 3.75 | | | 0.15 |
| 50 | 16.0 | 10.0 | 3.75 | 2.5% | 2.5% | 0.22 |
| 55 | 14.5 | 10.0 | 3.75 | 6.0 | 33.0 | 0.32 |
| 60 | 13.0 | 10.0 | 3.75 | 27.0 | 25.0 | 0.40 |
| 62 | 0.0 | 0.0 | 0.00 | 25.0 | 25.0 | |
| 65 | | | | 20.0 | 25.0 | |
| 70 | | | | 30.0 | 30.0 | |
| 71 | | | | 25.0 | 40.0 | |
| 75 | | | | 100.0 | 100.0 | |

MORTALITY: The RP-2000 Combined Mortality Table projected with Scale AA to 2015, set back 3 years for females is used for healthy active members, retirees, and beneficiaries. The RP-2000 Disabled Mortality Table set back 1 year for males and set back 5 years for females is used for disabled retirees. Mortality improvement is anticipated under these assumptions as recent mortality experience shows actual deaths are approximately 7-8% greater for healthy lives and 9% greater for disabled lives than expected under the selected tables.





(Continued)

POLICE OFFICERS

SALARY INCREASES: Police Officers are assumed to receive a longevity increase of 5%, 10%, 15%, and 20% applied to individual base pay after 15, 20, 25, and 30 years of service. These are approximated by increases of 3.5% to final average salary. Representative values of the assumed annual rates of future salary increases before longevity increases are as follows and include inflation at 4.25% per annum:

| | | ay Increase Assumpti or an Individual Memb | |
|---------------------|-------------------------------|---|----------------------------------|
| Years of Service | Merit & Seniority | Inflation & Productivity (Economy) | Total Increase (Next Year) |
| 5 10 15 20 | 3.56% 2.58 2.31 2.50 | 4.25% 4.25 4.25 4.25 4.25 | 7.81% 6.83 6.56 6.75 |
| 25 30 35 | 1.10 0.50 0.00 | 4.25 4.25 4.25 | 5.35 4.75 4.25 |

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed annual rates of withdrawal, service retirement, and disability are shown in the following tables:

| Percent of Members Separating Within the Next Year | | | | | | | |
|---|---------------|----------------------------|-------|-----------------------------|---------------------|------------------------------------|--|
| | With | drawal | | | | | |
| Sample | (3 years of s | service & up) ¹ | | bility ment ² | Years of Service | Service Retirement ³ | |
| Ages | Males | Females | Males | Females | | | |
| 20 | 6.00% | 2.50% | 0.02% | 0.04% | 20 | 12.5% | |
| 25 | 6.00 | 2.50 | 0.05 | 0.08 | 25 | 22.0 | |
| 30 | 4.25 | 3.50 | 0.10 | 0.12 | 30 | 15.0 | |
| 35 | 2.50 | 2.00 | 0.22 | 0.28 | 35 | 20.0 | |
| 40 | 1.75 | 1.50 | 0.25 | 0.40 | 40 | 20.0 | |
| 45 | 1.25 | 1.25 | 0.30 | 0.62 | | | |
| 50 | 1.25 | 1.25 | 0.40 | 0.70 | | | |
| 55 | 1.25 | 1.25 | 0.60 | 0.75 | | | |
| 60 | 0.00 | 0.00 | 0.80 | 0.90 | | | |

¹ Members of any age with less than 3 years of service have a 10% withdrawal assumption. ² It is assumed that 75% of the disabilities are due to accidents in the line of duty and the "percent of disability" is assumed to be 100%.

³ 100% of active members are assumed to retire at age 65, regardless of service.





MORTALITY: The RP-2000 Combined Mortality Table projected with Scale AA to 2015 set forward 1 year for females is used for healthy active members, retirees and beneficiaries. The following disability mortality table is used for disabled retirees.

| Disabled Retiree Mortality | | | | | | |
|----------------------------|--------------|--------------|--|--|--|--|
| Sample Ages | Males | Females | | | | |
| 20 | 0.80% | 0.50% | | | | |
| 30 40 | 0.80 0.80 | 0.50 0.50 | | | | |
| 50 60 | 0.80 1.16 | 0.50 0.74 | | | | |
| 70 | 2.35 | 1.55 | | | | |
| 80 | 5.78 | 3.76 | | | | |
| 90 | 13.95 | 10.87 | | | | |
| 100 | 51.48 | 49.93 | | | | |

Mortality improvement is anticipated under these assumptions as recent mortality experience shows actual deaths are approximately 7% greater for healthy lives and 6% greater for disabled lives than expected under the selected tables.





(Continued)

FIREFIGHTERS

SALARY INCREASES: Firefighters are assumed to receive a longevity increase of 5%, 10%, 15%, and 20% applied to individual base pay after 15, 20, 25, and 30 years of service. These are approximated by increases of 3.5% to final average salary. Representative values of the assumed annual rates of future salary increases before longevity increases are as follows and include inflation at 4.25% per annum:

| | | ay Increase Assumption | |
|---------------------|----------------------|--|----------------------------------|
| Years of Service | Merit & Seniority | Inflation & Productivity (Economy) | Total Increase (Next Year) |
| 5 | 2.50% | 4.25% | 6.75% |
| 10 | 2.50 | 4.25 | 6.75 |
| 15 | 2.50 | 4.25 | 6.75 |
| 20 | 2.50 | 4.25 | 6.75 |
| 25 | 2.50 | 4.25 | 6.75 |
| 30 | 2.50 | 4.25 | 6.75 |
| 35 | 2.50 | 4.25 | 6.75 |
| | | | |

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed annual rates of withdrawal, service retirement, and disability are shown in the following tables:

| Percent of Members Separating Within the Next Year | | | | |
|---|--|---------------------------------------|---------------------|------------------------------------|
| | Withdrawal | | | |
| Sample Ages | (2 years of service & up) ¹ | Disability Retirement ² | Years of Service | Service Retirement ³ |
| 20 | 2 50% | 0.010/ | 20 | 10 50/ |
| 20 | 3.50% | 0.01% | 20 | 12.5% |
| 25 | 3.50 | 0.02 | 25 | 12.5 |
| 30 | 2.00 | 0.15 | 30 | 20.0 |
| 35 | 1.00 | 0.20 | 35 | 40.0 |
| 40 | 1.00 | 0.35 | 40 | 40.0 |
| 45 | 1.50 | 0.45 | | |
| 50 | 1.50 | 0.52 | | |
| 55 | 0.00 | 0.60 | | |
| 60 | 0.00 | 0.70 | | |
| | | | | |

¹Members of any age with less than 2 years of service have a 9% withdrawal assumption.

 2 It is assumed that 75% of the disabilities are due to accidents in the line of duty and the "percent of disability" is assumed to be 100%.

³100% of active members are assumed to retire at age 60, regardless of service.





MORTALITY: The RP-2000 Combined Mortality Table projected with Scale AA to 2015 set forward 1 year for females is used for healthy active members, retirees and beneficiaries. The following disability mortality table is used for disabled retirees.

| Disabled Retiree Mortality | | | | | |
|----------------------------|-------|---------|--|--|--|
| Sample Ages | Males | Females | | | |
| 20 | 0.59% | 0.37% | | | |
| 30 | 0.59 | 0.37 | | | |
| 40 | 0.59 | 0.37 | | | |
| 50 | 0.59 | 0.37 | | | |
| 60 | 0.85 | 0.54 | | | |
| 70 | 1.72 | 1.13 | | | |
| 80 | 4.22 | 2.75 | | | |
| 90 | 10.19 | 7.94 | | | |
| 100 | 37.60 | 36.47 | | | |
| | | | | | |

Mortality improvement is anticipated under these assumptions as recent mortality experience shows actual deaths are approximately 7% greater for male and 1% greater for female healthy lives and 8% greater for disabled lives than expected under the selected tables. Police and Fire are combined in the valuation results and the female healthy life population is much greater for Police than Fire so the smaller margin under Fire is not an issue at this time.





SCHEDULE E

SUMMARY OF DISTRICT OF COLUMBIA TEACHERS' RETIREMENT PLAN PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

Effective Date Established on July 1, 1997. The Treasury Department is responsible for paying all benefits accrued before this date.

DEFINITIONS

Affiliated Employers District of Columbia Public Schools, Public Charter Schools

- **Covered Members** Permanent, temporary, and probationary teachers for the District of Columbia public day schools become members automatically on their date of employment. Other employees covered by the Retirement of Public School Teachers Act including librarians, principals, and counselors also become members on their date of employment. Substitute teachers and employees of the Department of School Attendance and Work Permits are not covered. Some former D.C teachers working at charter schools are eligible to remain in the Program.
- **Service Credit** One year of school service is given for each year of employment with DCPS. After five years of service are accrued, additional service may be purchased or credited for service outside of DCPS.

Average Salary Highest 36 consecutive months of pay, divided by three.

Vested Members who accrue five or more years of Service Credit are vested for benefits. If these members leave service they may leave their Member Contribution Accounts with the Plan for a future benefit when reaching eligibility (deferred vested in this report).

CONTRIBUTIONS

- **Member Contributions** Members hired before November 1, 1996 are required to contribute 7% of annual pay. Members hired on or after November 1, 1996 contribute 8% of annual pay. Interest is not credited to each Member's accumulated contributions.
- Refund of MemberContributionsIn the event a member leaves service for a reason other than death or
retirement, member contribution accounts are refunded upon request.





SERVICE RETIREMENT

Eligibility The Age and Service Credit requirements to be eligible for a full Service Retirement are listed below:

- Members hired before November 1, 1996

| Age | Service Credit |
|-----|--------------------------------------|
| 55 | 30, including 5 years school service |
| 60 | 20, including 5 years school service |
| 62 | 5 years school service |

Members hired on and after November 1, 1996

| Age | Service Credit |
|---------|--------------------------------------|
| Any Age | 30, including 5 years school service |
| 60 | 20, including 5 years school service |
| 62 | 5 years school service |

For members hired before November 1, 1996:

- 1.5% of Average Salary times service up to 5 years, plus
- 1.75% of Average Salary times service between 5 and 10 years, plus
- 2.0% of Average Salary times service over 10 years.

For members hired on or after November 1, 1996:

- 2.0% of Average Salary times service.

All members receive a minimum benefit of 1.0% of Average Salary plus \$25 for each year of service.

INVOLUNTARY SERVICE RETIREMENT

Eligibility The Age and Service Credit requirements to be eligible for a Reduced Service Retirement are listed below:

- All Members, regardless of date of hire

| Age | Service Credit |
|---------|--------------------------------------|
| Any Age | 25, including 5 years school service |
| 50 | 20, including 5 years school service |

Benefit

Benefit

Service Retirement Benefit reduced by 1/6% per month (or 2% per year) that date of retirement precedes age 55.





DISABILITY RETIREMENT

| Eligibility | Active members with five or more years of school service credit are covered (vested) for disability retirement. To be eligible, the member must be found to be totally and permanently disabled (mentally or physically) from regular and gainful employment. | | | | |
|------------------------|---|--|--|--|--|
| Benefit | Equal to Service Retirement benefit. Minimum benefit is the lesser of a) or b): | | | | |
| | a) 40% of Average Salaryb) Calculated benefit amount by projecting service to age 60. | | | | |
| | SURVIVOR BENEFITS | | | | |
| LUMP SUM | | | | | |
| Eligibility | Death before completion of 18 months of school service or death without an eligible spouse, child or parent. | | | | |
| Benefit | Refund of member contributions. | | | | |
| SPOUSE ONLY | | | | | |
| Eligibility | Death before retirement and married for at least two years, or have a child by the marriage. | | | | |
| Benefit | 55% of Service Retirement benefit. Minimum benefit is the lesser of a) or b): | | | | |
| | a) 55% of 40% of Average Salary b) 55% of the calculated benefit amount by projecting service to age 60. | | | | |
| SPOUSE & DEPENDENT CHI | LDREN | | | | |
| Eligibility | Death before retirement and married for at least two years, or have a child by the marriage. Children must be unmarried and under age 18, or 22 if full-time student. Also, any dependent child because of a disability incurred before age 18. Death does not have to occur before retirement for the children's benefit. | | | | |
| Spouse Benefit | 55% of Service Retirement benefit. Minimum benefit is the lesser of a) or b): | | | | |
| | a) 55% of 40% of Average Salaryb) 55% of the calculated benefit amount by projecting service to age 60. | | | | |
| Child Benefit | A benefit per child equal to the smallest of a) or b) or c): | | | | |
| | a) 60% of Average Salary divided by the number of eligible children b) \$6,024* (if hired before 1/1/1980), \$5,820* (if hired between 1/1/1980 and 10/31/1996), or \$5,700* (if hired on or after 11/1/1996) per child c) \$18,072* (if hired before 1/1/1980), \$17,460* (if hired between 1/1/1980 and 10/31/1996), or \$17,460* (if hired on or after 11/1/1996) divided by the number of children. | | | | |





DEPENDENT CHILDREN ONLY

| Eligibility | Children must be unmarried and under age 18, or 22 if full-time student. Also, any dependent child because of a disability incurred before age 18. Death does not have to occur before retirement for the children's benefit. |
|-----------------------------|---|
| Benefit | A benefit per child equal to the smallest of a) or b) or c): |
| | d) 75% of Average Salary divided by the number of eligible children e) \$7,356* (if hired before 1/1/1980), \$7,092* (if hired between 1/1/1980 and 10/31/1996), or \$6,912* (if hired on or after 11/1/1996) per child f) \$22,068* (if hired before 1/1/1980), \$21,276* (if hired between 1/1/1980 and 10/31/1996), or \$20,736* (if hired on or after 11/1/1996) divided by the number of children. |
| PARENTS ONLY Eligibility | Death before retirement and no eligible spouse or children, and parents must receive at least one-half of their total income from member. |
| Benefit | 55% of Service Retirement benefit. Minimum benefit is the lesser of a) or b): |
| | a) 55% of 40% of Average Salaryb) 55% of the calculated benefit amount by projecting service to age 60. |

*Survivor benefit amounts are as of March 2009, and are subject to annual inflation adjustments.

DEFERRED VESTED RETIREMENT

Eligibility Active members with five or more years of school service credit .

Benefit Benefit is calculated in the same manner as Service Retirement benefit and may be collected starting at age 62.

OPTIONS

Retirement and disability benefits are payable for the life of the retired member. Optional reduced benefits may be elected at the time of retirement to provide for continuation of a reduced benefit amount to a designated beneficiary. Optional forms include:

a) Reduced Annuity with a Maximum Survivor Annuity (to Spouse) Reduced benefit paid to member so that upon member's death, the spouse will receive 55% of the unreduced normal life annuity. Member's benefit is reduced by 2.5% of retirement benefit, up to \$3,600, plus 10% of any retirement benefit over \$3,600.





b) Reduced Annuity with a Partial Survivor Annuity (to Spouse)

Reduced benefit paid to member so that upon member's death, the spouse will receive a partial annuity that can range from \$1 up to 55% of the unreduced normal life annuity amount. Member's benefit is reduced by the same amount as option a, multiplied by the ratio of the chosen benefit percent to the maximum benefit percent (55%).

c) Reduced Annuity with a Life Insurance Benefit

Member elects a life insurance amount, payable in a lump sum to designated beneficiary upon member's death.

d) Reduced Annuity with a Survivor Annuity to a Person with an Insurable Interest

A 55% joint and survivor annuity where the original benefit is reduce by 10% plus an additional 5% for each full 5 years, up to 25 years, that the designated beneficiary is younger than the member. Maximum reduction is 40% for any beneficiary who is 25 or more years younger than the member.

COST OF LIVING ADJUSTMENTS

Each year on March 1st, benefits which have been paid for at least twelve months proceeding March 1st are increased. The increase is equal to the annual CPI. COLA's are included in benefit payments on and after April 1st.

For members hired on or after November 1, 1996, the cost of living increase is limited to 3% per year. In addition, cost of living adjustments do not apply to retirement benefit payments resulting from voluntary contributions.





<u>SCHEDULE E</u>

(Continued)

SUMMARY OF DISTRICT OF COLUMBIA POLICE OFFICERS' & FIREFIGHTERS' RETIREMENT PLAN PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

Effective Date Established on July 1, 1997. The Treasury Department is responsible for paying all benefits accrued before this date.

DEFINITIONS

Affiliated Employers District of Columbia Police Officers and Firefighters, except Police cadets.

- **Covered Members** All employees of DC Police Department and Fire Department become members on their first day of active duty. Membership is not automatic for uniformed EMT Firefighters.
- Service Credit One year of service is given for each year of employment with DCPD or DCFD. Additional service may be purchased or credited for lateral transfer service, EMT service, prior military service, and certain civilian service.
- Average SalaryFor members hired before February 15, 1980, the highest 12 consecutive
months of pay. For members hired on or after February 15, 1980, the highest
36 consecutive months of pay, divided by 3.
- Vested Members who accrue five or more years of Service Credit are vested for benefits. If these members leave service they may leave their Member Contribution Accounts with the Plan for a future benefit when reaching eligibility (deferred vested in this report).

CONTRIBUTIONS

- Member Contributions Members hired before November 10, 1996 contribute 7.0% of salary. Members hired on or after November 10, 1996 contribute 8.0% of salary. Member contributions, together with any purchased service credit payments, are credited to individual Member Contribution Accounts. No interest is accrued on contributions.
- Refund of Member

 Contributions
 In the event a member leaves service for a reason other than death or retirement, member contribution accounts are refunded upon request.





SERVICE RETIREMENT

Eligibility The Age and Service Credit requirements to be eligible for a full Service Retirement are listed below:

- Members hired before November 10, 1996

| Age | Service Credit |
|---------|-------------------------------------|
| Any age | 20 (only if hired before 2/15/1980) |
| 50 | 25 years departmental service |
| 60 | 5 years departmental service |

- Members hired on and after November 10, 1996

| Age | Service Credit |
|---------------|-------------------------------|
| Any Age 60 | 25 years departmental service |

| Benefit | For members hired before November 10, 1996: 2.5% of Average Salary times departmental service up to 25 years (20 years if hired before 2/15/1980), plus 3.0% of Average Salary times departmental service over 25 years (or 20), plus 2.5% of Average Salary times purchased or credited service. |
|-------------|--|
| | For members hired on or after November 10, 1996: 2.5% of Average Salary times total service. |
| | All members are subject to a maximum benefit of 80% of Average Salary. |
| | SERVICE-RELATED DISABILITY RETIREMENT |
| Eligibility | Disabled as a result of an illness or injury in the line of duty. |
| Benefit | For members hired before February 15, 1980: 2.5% of Average Salary times total years of service, subject to a minimum of 66-2/3% of Average Salary and a maximum of 70% of Average Salary. |
| | For members hired on or after February 15, 1980: 70% of final pay times percentage of disability, subject to a minimum of 40% of final pay. |





NONSERVICE-RELATED DISABILITY RETIREMENT

| Eligibility | Active members with five or more years of departmental service are covered (vested) for disability retirement. To be eligible, the member must be found to be totally and permanently disabled (mentally or physically) from regular and gainful employment. | | | | |
|---|--|--|--|--|--|
| Benefit | For members hired before February 15, 1980: 2.0% of Average Salary times total years of service, subject to a minimum of 40% of Average Salary and a maximum of 70% of Average Salary. | | | | |
| | For members hired on or after February 15, 1980: 70% of final pay times percentage of disability, subject to a minimum of 30% of final pay. | | | | |
| | SURVIVOR BENEFITS | | | | |
| | | | | | |
| Eligibility | Death before retirement without an eligible spouse or child. | | | | |
| Benefit | Refund of member contributions according to plan order of precedence. | | | | |
| LUMP SUM – DEATH IN LINI Eligibility | E OF DUTY Death occurring in the line of duty, not resulting from willful misconduct. | | | | |
| Benefit | \$50,000 | | | | |
| | | | | | |
| SPOUSE ONLY – DEATH IN Eligibility | LINE OF DUTY Member killed in line of duty, after December 29, 1993. | | | | |
| Benefit | 100% of final pay. | | | | |
| SPOUSE ONLY – DEATH NO Eligibility | PT IN LINE OF DUTY Member death, not in line of duty, after December 29, 1993. If retired, must be married for at least one year or have a child by the marriage. | | | | |
| Benefit | 40% of the greater of a) or b): | | | | |
| | a) Average Salary b) Salary for step 6 salary class 1 of the DC Police and Fireman's Salary Act in effect, adjusted for cost-of-living increases if death occurs after retirement. | | | | |
| | Benefit cannot be higher than rate of pay at death (or retirement if death occurs after retirement). | | | | |





SPOUSE & DEPENDENT CHILDREN

| Eligibility | Member death, not in line of duty, after December 29, 1993. If retired, must be married for at least one year or have a child by the marriage. Children must be unmarried and under age 18, or 22 if full-time student. Also, any dependent child because of a disability incurred before age 18. Death does not have to occur before retirement for the children's benefit. | | | |
|---------------------------------|--|--|--|--|
| Spouse Benefit | 40% of the greater of a) or b): | | | |
| | a) Average Salary b) Salary for step 6 salary class 1 of the DC Police and Fireman's Salary Act in effect, adjusted for cost-of-living increases if death occurs after retirement. | | | |
| | Benefit cannot be higher than rate of pay at death (or retirement if death occurs after retirement). | | | |
| Child Benefit | A benefit per child equal to the smallest of a) or b) or c): | | | |
| | a) 60% of Average Salary divided by the number of eligible children b) \$3,552* (if hired before 11/1/1996) or \$3,480* (if hired on or after 11/1/1996) per child c) \$10,656* (if hired before 11/1/1996) or \$10,490* (if hired on or after 11/1/1996) divided by the number of children. | | | |
| DEPENDENT CHILDREN ONL | | | | |
| Eligibility | Children must be unmarried and under age 18, or 22 if full-time student. Also, any dependent child because of a disability incurred before age 18. Death does not have to occur before retirement for the children's benefit. | | | |
| Benefit | 75% of Average Salary divided by the number of eligible children, adjusted for cost-of-living increases. | | | |
| *Survivor benefit amounts are a | as of March 2009, and are subject to annual inflation adjustments. | | | |
| | DEFERRED VESTED RETIREMENT | | | |
| Eligibility | Active members with five or more years of departmental service. | | | |
| Benefit | Benefit is calculated in the same manner as Service Retirement benefit and may be collected starting at age 55. | | | |





OPTIONS

Retirement and disability benefits are payable for the life of the retired member. This includes an unreduced joint and survivor annuity as defined above in the "Survivor Benefits – Spouse and Dependent Children" section.

An optional reduced benefit may be elected at the time of retirement to provide for an additional survivor benefit to a designated beneficiary. Member's original annuity is reduced by 10% and that amount is added to the survivor's benefit. If the designated beneficiary is more than five years younger than the member, the additional amount will be reduced by 5% for each full five years that the beneficiary is younger than the member, subject to a maximum of 40%.

COST OF LIVING ADJUSTMENTS

Each year on March 1st, benefits which have been paid for at least twelve months proceeding March 1st are increased. The increase is equal to the annual CPI. COLA's are included in benefit payments on and after April 1st.

For members hired on or after November 10, 1996, the cost of living increase is limited to 3% per year. Members (not beneficiaries) hired before February 15, 1980, will receive equalization pay, which is defined as the percentage increase as active employees' salary increases.





SCHEDULES OF MEMBER DATA

TABLE 1

RECONCILIATION OF MEMBER DATA AS OF OCTOBER 1, 2013

TEACHERS' RETIREMENT PLAN

| | Actives | Retirees | Disabled | Beneficiaries | Vested Terms | Total |
|--------------------------------------|---------|----------|----------|---------------|-----------------|-------|
| 1. Headcounts as of October 1, 2012 | 4,495 | 3,055 | 114 | 116 | 920 | 8,700 |
| 2. Change in status during the year: | | | | | | |
| a. Death | | (36) | (5) | (3) | | (44) |
| b. Disabled | (4) | | 9 | | (5) | |
| c. Retired | (102) | 195 | | | (93) | |
| d. Vested Termination | (170) | | | | 170 | |
| e. Nonvested Termination | (385) | | | | | (385) |
| f. Benefits Expired/Refund | (129) | | | (3) | (60) | (192) |
| 3. New member due to: | | | | | | |
| a. New Hire | 639 | | | | | 639 |
| b. Rehire | 35 | | | | (20) | 15 |
| c. Death of Participant | | | | 3 | | 3 |
| d. Adjustments | | 1 | 1 | 1 | | 3 |
| 4. Headcounts as of October 1, 2013 | 4,379 | 3,215 | 119 | 114 | 912 | 8,739 |





SCHEDULES OF MEMBER DATA

TABLE 2

RECONCILIATION OF MEMBER DATA AS OF OCTOBER 1, 2013

POLICE OFFICERS' RETIREMENT PLAN

| | Actives | Retirees | Disabled | Beneficiaries | Vested Terms | Total |
|--------------------------------------|---------|----------|----------|---------------|-----------------|-------|
| 1. Headcounts as of October 1, 2012 | 3,810 | 897 | 279 | 322 | 127 | 5,435 |
| 2. Change in status during the year: | | | | | | |
| a. Death | | (6) | (4) | (7) | (1) | (18) |
| b. Disabled | (5) | | 8 | | (3) | |
| c. Retired | (68) | 81 | | | (13) | |
| d. Vested Termination | (51) | | | | 51 | |
| e. Nonvested Termination | (16) | | | | | (16) |
| f. Benefits Expired/Refund | (48) | | | (7) | (11) | (66) |
| 3. New member due to: | | | | | | |
| a. New Hire | 213 | | | | | 213 |
| b. Rehire | 11 | | | | (11) | |
| c. Death of Participant | | | | 15 | | 15 |
| d. Adjustments | | 1 | | 5 | 1 | 7 |
| 4. Headcounts as of October 1, 2013 | 3,846 | 973 | 283 | 328 | 140 | 5,570 |





SCHEDULES OF MEMBER DATA

TABLE 3

RECONCILIATION OF MEMBER DATA AS OF OCTOBER 1, 2013

FIREFIGHTERS' RETIREMENT PLAN

| | Actives | Retirees | Disabled | Beneficiaries | Vested Terms | Total |
|--------------------------------------|---------|----------|----------|---------------|-----------------|-------|
| 1. Headcounts as of October 1, 2012 | 1,700 | 367 | 64 | 110 | 58 | 2,299 |
| 2. Change in status during the year: | | | | | | |
| a. Death | (1) | (1) | (1) | (3) | | (6) |
| b. Disabled | (3) | | 5 | | (2) | |
| c. Retired | (37) | 45 | | | (8) | |
| d. Vested Termination | (42) | | | | 42 | |
| e. Nonvested Termination | (7) | | | | | (7) |
| f. Benefits Expired/Refund | (6) | | | (1) | (1) | (8) |
| 3. New member due to: | | | | | | |
| a. New Hire | 56 | | | | | 56 |
| b. Rehire | 4 | | | | (3) | 1 |
| c. Death of Participant | | | | 4 | | 4 |
| d. Adjustments | | 3 | | 7 | | 10 |
| 4. Headcounts as of October 1, 2013 | 1,664 | 414 | 68 | 117 | 86 | 2,349 |





TABLE 4

SCHEDULE OF ACTIVE MEMBER DATA AS OF OCTOBER 1, 2013

TEACHERS' RETIREMENT PLAN

| Attained | | | | Cor | npleted Ye | ears of Ser | vice | | |
|-----------|---------|--------|----------|----------|------------|-------------|------|-------|-------------------|
| Age | Under 5 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30+ | Total | Payroll |
| Under 20 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | \$ 66,314 |
| 20 to 24 | 164 | 0 | 0 | 0 | 0 | 0 | 0 | 164 | \$ 8,966,982 |
| 25 to 29 | 668 | 45 | 1 | 0 | 0 | 0 | 0 | 714 | \$ 43,537,949 |
| 30 to 34 | 495 | 134 | 29 | 0 | 0 | 0 | 0 | 658 | \$ 47,797,981 |
| 35 to 39 | 328 | 133 | 111 | 10 | 0 | 0 | 0 | 582 | \$ 49,017,898 |
| 40 to 44 | 214 | 82 | 154 | 71 | 9 | 0 | 0 | 530 | \$ 48,687,040 |
| 45 to 49 | 104 | 60 | 78 | 40 | 52 | 23 | 0 | 357 | \$ 33,848,560 |
| 50 to 54 | 81 | 52 | 75 | 46 | 58 | 78 | 5 | 395 | \$ 38,608,112 |
| 55 to 59 | 54 | 40 | 74 | 51 | 57 | 124 | 49 | 449 | \$ 44,465,882 |
| 60 to 64 | 43 | 29 | 62 | 44 | 58 | 67 | 68 | 371 | \$ 37,736,772 |
| 65 to 69 | 12 | 17 | 19 | 16 | 17 | 22 | 26 | 129 | \$ 13,385,457 |
| 70 & Over | 3 | 2 | 2 | 4 | 4 | 5 | 9 | 29 | \$ 2,952,358 |
| Total | 2,167 | 594 | 605 | 282 | 255 | 319 | 157 | 4,379 | \$ 369,071,305 |

Average Age:42.14Average Service:9.95





TABLE 5

SCHEDULE OF ACTIVE MEMBER DATA AS OF OCTOBER 1, 2013

POLICE OFFICERS' RETIREMENT PLAN

| Attained | | Completed Years of Service | | | | | | | | | | | |
|-----------|---------|----------------------------|----------|----------|----------|----------|-----|-------|----|-------------|--|--|--|
| Age | Under 5 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30+ | Total | | Payroll | | | |
| Under 20 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | \$ | 55,565 | | | |
| 20 to 24 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | \$ | 3,861,636 | | | |
| 25 to 29 | 280 | 117 | 1 | 0 | 0 | 0 | 0 | 398 | \$ | 22,887,092 | | | |
| 30 to 34 | 127 | 375 | 54 | 0 | 0 | 0 | 0 | 556 | \$ | 35,764,433 | | | |
| 35 to 39 | 32 | 156 | 208 | 65 | 0 | 0 | 0 | 461 | \$ | 32,674,083 | | | |
| 40 to 44 | 30 | 104 | 181 | 204 | 174 | 0 | 0 | 693 | \$ | 54,051,145 | | | |
| 45 to 49 | 10 | 65 | 106 | 107 | 575 | 99 | 0 | 962 | \$ | 82,503,229 | | | |
| 50 to 54 | 8 | 18 | 46 | 33 | 285 | 167 | 15 | 572 | \$ | 49,288,479 | | | |
| 55 to 59 | 2 | 3 | 11 | 8 | 36 | 28 | 16 | 104 | \$ | 9,268,076 | | | |
| 60 to 64 | 0 | 0 | 3 | 3 | 1 | 1 | 8 | 16 | \$ | 1,405,741 | | | |
| 65 to 69 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | \$ | 448,840 | | | |
| 70 & Over | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | \$ | 285,709 | | | |
| Total | 565 | 838 | 610 | 420 | 1,071 | 295 | 47 | 3,846 | \$ | 292,494,028 | | | |

Average Age:41.30Average Service:15.22





TABLE 6

SCHEDULE OF ACTIVE MEMBER DATA AS OF OCTOBER 1, 2013

FIREFIGHTERS' RETIREMENT PLAN

| Attained | | Completed Years of Service | | | | | | | | | | | |
|-----------|---------|----------------------------|----------|----------|----------|----------|-----|-------|----|-------------|--|--|--|
| Age | Under 5 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30+ | Total | | Payroll | | | |
| Under 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ | 0 | | | |
| 20 to 24 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | \$ | 1,459,403 | | | |
| 25 to 29 | 77 | 159 | 4 | 0 | 0 | 0 | 0 | 240 | \$ | 13,436,189 | | | |
| 30 to 34 | 59 | 233 | 7 | 0 | 0 | 0 | 0 | 299 | \$ | 17,650,392 | | | |
| 35 to 39 | 13 | 138 | 88 | 13 | 2 | 0 | 0 | 254 | \$ | 16,914,608 | | | |
| 40 to 44 | 2 | 36 | 116 | 46 | 109 | 1 | 0 | 310 | \$ | 24,047,716 | | | |
| 45 to 49 | 1 | 13 | 25 | 71 | 120 | 29 | 0 | 259 | \$ | 22,128,622 | | | |
| 50 to 54 | 0 | 2 | 1 | 26 | 80 | 81 | 12 | 202 | \$ | 18,455,019 | | | |
| 55 to 59 | 0 | 4 | 0 | 0 | 11 | 34 | 17 | 66 | \$ | 6,406,602 | | | |
| 60 to 64 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | \$ | 387,137 | | | |
| 65 & Over | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ | 0 | | | |
| Total | 183 | 585 | 241 | 156 | 323 | 145 | 31 | 1,664 | \$ | 120,885,688 | | | |

Average Age:39.50Average Service:14.22





TABLE 7

SCHEDULE OF RETIREE MEMBER DATA AS OF OCTOBER 1, 2013

TEACHERS' RETIREMENT PLAN DISTRICT ONLY

| Attained | Servic | e Retirement | Disabil | ity Retirement | | vivors and neficiaries | Total | | |
|-----------|--------|--------------------|---------|--------------------|-----|---------------------------|-------|--------------------|--|
| Age | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | |
| Under 20 | 0 | \$0 | 0 | \$0 | 7 | \$20,045 | 7 | \$20,045 | |
| 20 to 24 | 0 | \$0 | 0 | \$0 | 1 | \$6,252 | 1 | \$6,252 | |
| 25 to 29 | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 | |
| 30 to 34 | 0 | \$0 | 0 | \$0 | 1 | \$12,516 | 1 | \$12,516 | |
| 35 to 39 | 0 | \$0 | 1 | \$32,580 | 2 | \$15,570 | 3 | \$48,150 | |
| 40 to 44 | 0 | \$0 | 2 | \$58,440 | 0 | \$0 | 2 | \$58,440 | |
| 45 to 49 | 0 | \$0 | 2 | \$48,396 | 1 | \$11,290 | 3 | \$59,686 | |
| 50 to 54 | 9 | \$210,160 | 10 | \$356,736 | 7 | \$77,842 | 26 | \$644,738 | |
| 55 to 59 | 109 | \$3,030,013 | 24 | \$794,040 | 10 | \$81,288 | 143 | \$3,905,341 | |
| 60 to 64 | 646 | \$13,437,141 | 40 | \$817,656 | 29 | \$142,908 | 715 | \$14,397,705 | |
| 65 to 69 | 1,319 | \$19,807,304 | 33 | \$484,320 | 28 | \$224,918 | 1,380 | \$20,516,542 | |
| 70 to 74 | 782 | \$9,342,771 | 6 | \$37,536 | 15 | \$50,628 | 803 | \$9,430,935 | |
| 75 to 79 | 265 | \$2,825,800 | 1 | \$2,220 | 8 | \$52,397 | 274 | \$2,880,417 | |
| 80 to 84 | 70 | \$766,774 | 0 | \$0 | 5 | \$56,411 | 75 | \$823,185 | |
| 85 to 89 | 13 | \$130,856 | 0 | \$0 | 0 | \$0 | 13 | \$130,856 | |
| 90 to 94 | 2 | \$31,475 | 0 | \$0 | 0 | \$0 | 2 | \$31,475 | |
| 95 & Over | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 | |
| Total | 3,215 | \$49,582,294 | 119 | \$2,631,924 | 114 | \$752,065 | 3,448 | \$52,966,283 | |

Average Age: 68





TABLE 8

SCHEDULE OF RETIREE MEMBER DATA AS OF OCTOBER 1, 2013

TEACHERS' RETIREMENT PLAN FEDERAL PLUS DISTRICT

| Attained | Servic | e Retirement | Disabil | ity Retirement | | vivors and neficiaries | Total | | |
|-----------|--------|--------------------|---------|--------------------|-----|---------------------------|-------|--------------------|--|
| Age | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | |
| Under 20 | 0 | \$0 | 0 | \$0 | 8 | \$51,432 | 8 | \$51,432 | |
| 20 to 24 | 0 | \$0 | 0 | \$0 | 2 | \$12,828 | 2 | \$12,828 | |
| 25 to 29 | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 | |
| 30 to 34 | 0 | \$0 | 0 | \$0 | 1 | \$12,516 | 1 | \$12,516 | |
| 35 to 39 | 0 | \$0 | 1 | \$32,580 | 2 | \$22,092 | 3 | \$54,672 | |
| 40 to 44 | 0 | \$0 | 2 | \$58,440 | 3 | \$19,980 | 5 | \$78,420 | |
| 45 to 49 | 0 | \$0 | 2 | \$48,396 | 2 | \$18,240 | 4 | \$66,636 | |
| 50 to 54 | 9 | \$314,196 | 15 | \$468,252 | 9 | \$160,332 | 33 | \$942,780 | |
| 55 to 59 | 110 | \$5,432,676 | 27 | \$857,616 | 15 | \$319,140 | 152 | \$6,609,432 | |
| 60 to 64 | 653 | \$31,420,116 | 48 | \$1,438,908 | 40 | \$632,196 | 741 | \$33,491,220 | |
| 65 to 69 | 1,411 | \$65,072,340 | 74 | \$2,181,756 | 57 | \$1,103,016 | 1,542 | \$68,357,112 | |
| 70 to 74 | 1,095 | \$49,180,560 | 44 | \$1,190,844 | 60 | \$1,007,028 | 1,199 | \$51,378,432 | |
| 75 to 79 | 815 | \$37,313,916 | 47 | \$1,402,932 | 63 | \$1,379,988 | 925 | \$40,096,836 | |
| 80 to 84 | 645 | \$27,983,208 | 39 | \$1,153,579 | 63 | \$1,399,476 | 747 | \$30,536,263 | |
| 85 to 89 | 373 | \$15,517,464 | 33 | \$1,136,628 | 56 | \$1,292,220 | 462 | \$17,946,312 | |
| 90 to 94 | 195 | \$8,445,720 | 24 | \$920,424 | 31 | \$827,112 | 250 | \$10,193,256 | |
| 95 & Over | 73 | \$3,204,960 | 11 | \$319,992 | 14 | \$338,604 | 98 | \$3,863,556 | |
| Total | 5,379 | \$243,885,156 | 367 | \$11,210,347 | 426 | \$8,596,200 | 6,172 | \$263,691,703 | |

Average Age:





TABLE 9

SCHEDULE OF RETIREE MEMBER DATA AS OF OCTOBER 1, 2013

POLICE OFFICERS' RETIREMENT PLAN DISTRICT ONLY

| Attained | Servio | ce Retirement | Disabil | ity Retirement | | vivors and neficiaries | Total | | |
|-----------|--------|--------------------|---------|--------------------|-----|---------------------------|-------|--------------------|--|
| Age | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | |
| Under 20 | 0 | \$0 | 0 | \$0 | 51 | \$363,836 | 51 | \$363,836 | |
| 20 to 24 | 0 | \$0 | 0 | \$0 | 12 | \$48,743 | 12 | \$48,743 | |
| 25 to 29 | 0 | \$0 | 1 | \$24,648 | 0 | \$0 | 1 | \$24,648 | |
| 30 to 34 | 0 | \$0 | 2 | \$69,624 | 1 | \$26,736 | 3 | \$96,360 | |
| 35 to 39 | 0 | \$0 | 9 | \$247,632 | 2 | \$81,492 | 11 | \$329,124 | |
| 40 to 44 | 0 | \$0 | 44 | \$1,475,544 | 20 | \$376,143 | 64 | \$1,851,687 | |
| 45 to 49 | 2 | \$37,555 | 84 | \$2,835,816 | 14 | \$172,393 | 100 | \$3,045,764 | |
| 50 to 54 | 185 | \$6,839,355 | 70 | \$2,578,704 | 27 | \$402,867 | 282 | \$9,820,926 | |
| 55 to 59 | 350 | \$8,906,745 | 48 | \$997,807 | 39 | \$482,549 | 437 | \$10,387,101 | |
| 60 to 64 | 305 | \$4,613,507 | 20 | \$145,743 | 56 | \$824,804 | 381 | \$5,584,054 | |
| 65 to 69 | 114 | \$875,887 | 5 | \$83,015 | 59 | \$895,974 | 178 | \$1,854,876 | |
| 70 to 74 | 17 | \$142,903 | 0 | \$0 | 28 | \$482,750 | 45 | \$625,653 | |
| 75 to 79 | 0 | \$0 | 0 | \$0 | 11 | \$223,879 | 11 | \$223,879 | |
| 80 to 84 | 0 | \$0 | 0 | \$0 | 3 | \$49,320 | 3 | \$49,320 | |
| 85 to 89 | 0 | \$0 | 0 | \$0 | 4 | \$64,693 | 4 | \$64,693 | |
| 90 to 94 | 0 | \$0 | 0 | \$0 | 1 | \$20,952 | 1 | \$20,952 | |
| 95 & Over | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 | |
| Total | 973 | \$21,415,952 | 283 | \$8,458,533 | 328 | \$4,517,131 | 1,584 | \$34,391,616 | |

Average Age:





TABLE 10

SCHEDULE OF RETIREE MEMBER DATA AS OF OCTOBER 1, 2013

POLICE OFFICERS' RETIREMENT PLAN FEDERAL PLUS DISTRICT

| Attained | Servic | e Retirement | Disabili | ty Retirement | | vivors and neficiaries | Total | | |
|-----------|--------|--------------------|----------|--------------------|-------|---------------------------|-------|--------------------|--|
| Age | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | |
| Under 20 | 0 | \$0 | 0 | \$0 | 58 | \$633,528 | 58 | \$633,528 | |
| 20 to 24 | 0 | \$0 | 0 | \$0 | 14 | \$198,300 | 14 | \$198,300 | |
| 25 to 29 | 0 | \$0 | 1 | \$24,648 | 0 | \$0 | 1 | \$24,648 | |
| 30 to 34 | 0 | \$0 | 2 | \$69,624 | 2 | \$62,064 | 4 | \$131,688 | |
| 35 to 39 | 0 | \$0 | 9 | \$247,632 | 2 | \$81,492 | 11 | \$329,124 | |
| 40 to 44 | 0 | \$0 | 46 | \$1,513,824 | 22 | \$641,388 | 68 | \$2,155,212 | |
| 45 to 49 | 2 | \$50,172 | 91 | \$2,978,136 | 20 | \$496,320 | 113 | \$3,524,628 | |
| 50 to 54 | 185 | \$12,954,876 | 93 | \$3,106,404 | 44 | \$1,323,012 | 322 | \$17,384,292 | |
| 55 to 59 | 391 | \$25,971,180 | 95 | \$3,703,368 | 91 | \$2,414,624 | 577 | \$32,089,172 | |
| 60 to 64 | 781 | \$43,062,647 | 150 | \$6,372,612 | 168 | \$4,470,220 | 1,099 | \$53,905,479 | |
| 65 to 69 | 958 | \$50,615,068 | 181 | \$7,388,844 | 217 | \$5,949,904 | 1,356 | \$63,953,816 | |
| 70 to 74 | 511 | \$27,296,760 | 138 | \$5,976,132 | 202 | \$5,689,152 | 851 | \$38,962,044 | |
| 75 to 79 | 276 | \$14,698,284 | 106 | \$4,892,124 | 187 | \$5,700,216 | 569 | \$25,290,624 | |
| 80 to 84 | 93 | \$5,652,888 | 83 | \$4,109,778 | 117 | \$3,641,568 | 293 | \$13,404,234 | |
| 85 to 89 | 38 | \$2,876,700 | 60 | \$3,289,488 | 127 | \$3,824,148 | 225 | \$9,990,336 | |
| 90 to 94 | 11 | \$849,144 | 16 | \$880,968 | 66 | \$2,105,976 | 93 | \$3,836,088 | |
| 95 & Over | 2 | \$166,128 | 8 | \$505,440 | 31 | \$1,014,048 | 41 | \$1,685,616 | |
| Total | 3,248 | \$184,193,847 | 1,079 | \$45,059,022 | 1,368 | \$38,245,960 | 5,695 | \$267,498,829 | |

Average Age:





TABLE 11

SCHEDULE OF RETIREE MEMBER DATA AS OF OCTOBER 1, 2013

FIREFIGHTERS' RETIREMENT PLAN DISTRICT ONLY

| Attained | Servio | ce Retirement | Disabil | ity Retirement | | vivors and neficiaries | Total | | |
|-----------|--------|--------------------|---------|--------------------|-----|------------------------|-------|--------------------|--|
| Age | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | |
| Under 20 | 0 | \$0 | 0 | \$0 | 22 | \$172,249 | 22 | \$172,249 | |
| 20 to 24 | 0 | \$0 | 0 | \$0 | 5 | \$109,872 | 5 | \$109,872 | |
| 25 to 29 | 0 | \$0 | 1 | \$21,408 | 1 | \$1,563 | 2 | \$22,971 | |
| 30 to 34 | 0 | \$0 | 1 | \$37,584 | 1 | \$2,504 | 2 | \$40,088 | |
| 35 to 39 | 0 | \$0 | 3 | \$86,280 | 1 | \$23,640 | 4 | \$109,920 | |
| 40 to 44 | 0 | \$0 | 8 | \$278,976 | 4 | \$118,338 | 12 | \$397,314 | |
| 45 to 49 | 0 | \$0 | 11 | \$322,920 | 7 | \$103,133 | 18 | \$426,053 | |
| 50 to 54 | 62 | \$2,394,405 | 7 | \$251,892 | 4 | \$86,217 | 73 | \$2,732,514 | |
| 55 to 59 | 175 | \$5,978,676 | 17 | \$333,375 | 13 | \$224,102 | 205 | \$6,536,153 | |
| 60 to 64 | 121 | \$2,454,938 | 18 | \$158,499 | 19 | \$408,748 | 158 | \$3,022,185 | |
| 65 to 69 | 48 | \$678,230 | 2 | \$1,541 | 14 | \$236,137 | 64 | \$915,908 | |
| 70 to 74 | 8 | \$77,408 | 0 | \$0 | 12 | \$264,435 | 20 | \$341,843 | |
| 75 to 79 | 0 | \$0 | 0 | \$0 | 9 | \$192,111 | 9 | \$192,111 | |
| 80 to 84 | 0 | \$0 | 0 | \$0 | 5 | \$118,860 | 5 | \$118,860 | |
| 85 to 89 | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 | |
| 90 to 94 | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 | |
| 95 & Over | 0 | \$0 | 0 | \$0 | 0 | \$0 | 0 | \$0 | |
| Total | 414 | \$11,583,657 | 68 | \$1,492,475 | 117 | \$2,061,909 | 599 | \$15,138,041 | |

Average Age: 57.76



TABLE 12

SCHEDULE OF RETIREE MEMBER DATA AS OF OCTOBER 1, 2013

FIREFIGHTERS' RETIREMENT PLAN FEDERAL PLUS DISTRICT

| Attained | Servic | e Retirement | Disabil | ity Retirement | | vivors and neficiaries | Total | | |
|-----------|--------|--------------------|---------|--------------------|-----|------------------------|-------|--------------------|--|
| Age | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | |
| Under 20 | 0 | \$0 | 0 | \$0 | 22 | \$261,744 | 22 | \$261,744 | |
| 20 to 24 | 0 | \$0 | 0 | \$0 | 5 | \$144,948 | 5 | \$144,948 | |
| 25 to 29 | 0 | \$0 | 1 | \$21,408 | 1 | \$3,876 | 2 | \$25,284 | |
| 30 to 34 | 0 | \$0 | 1 | \$37,584 | 1 | \$3,600 | 2 | \$41,184 | |
| 35 to 39 | 0 | \$0 | 3 | \$86,280 | 1 | \$23,640 | 4 | \$109,920 | |
| 40 to 44 | 0 | \$0 | 8 | \$278,976 | 5 | \$189,600 | 13 | \$468,576 | |
| 45 to 49 | 0 | \$0 | 11 | \$322,920 | 9 | \$216,768 | 20 | \$539,688 | |
| 50 to 54 | 62 | \$4,469,952 | 10 | \$313,308 | 10 | \$233,256 | 82 | \$5,016,516 | |
| 55 to 59 | 178 | \$13,403,448 | 34 | \$1,441,176 | 24 | \$656,388 | 236 | \$15,501,012 | |
| 60 to 64 | 162 | \$11,164,644 | 47 | \$2,234,052 | 41 | \$1,179,096 | 250 | \$14,577,792 | |
| 65 to 69 | 211 | \$13,713,852 | 50 | \$2,422,795 | 57 | \$1,643,316 | 318 | \$17,779,963 | |
| 70 to 74 | 226 | \$14,230,800 | 91 | \$4,706,579 | 96 | \$2,766,111 | 413 | \$21,703,490 | |
| 75 to 79 | 126 | \$7,697,712 | 56 | \$2,556,420 | 67 | \$2,018,616 | 249 | \$12,272,748 | |
| 80 to 84 | 54 | \$3,488,508 | 43 | \$2,177,088 | 79 | \$2,485,032 | 176 | \$8,150,628 | |
| 85 to 89 | 28 | \$1,977,072 | 26 | \$1,439,400 | 74 | \$2,497,584 | 128 | \$5,914,056 | |
| 90 to 94 | 4 | \$228,240 | 14 | \$692,695 | 38 | \$1,332,720 | 56 | \$2,253,655 | |
| 95 & Over | 0 | \$0 | 5 | \$349,848 | 13 | \$408,948 | 18 | \$758,796 | |
| Total | 1,051 | \$70,374,228 | 400 | \$19,080,529 | 543 | \$16,065,243 | 1,994 | \$105,520,000 | |

Average Age: 69.79





SCHEDULE G

SCHEDULE OF RETIREES ADDED TO AND REMOVED FROM ROLLS

DISTRICT BENEFIT ONLY (\$ IN THOUSANDS)

| | | Ac | lded | Ren | noved | | Rolls at | End of Year | | |
|--------------------|----------------------------|--------|----------------------|--------|----------------------|---------------------------------------|-----------------------|---------------------------------|---|---------------------------------|
| Fiscal Year Ended | Plan | Number | Annual Allowances | Number | Annual Allowances | Increase Due to Plan Amendments | Number | Annual Allowances | Percentage Increase in Annual Allowances | Average Annual Allowances |
| September 30, 2009 | Teachers Police Fire | | | | | | 2,770 1,086 363 | \$31,877 \$15,990 \$6,421 | | \$12 \$15 \$18 |
| September 30, 2010 | Teachers | 203 | \$4,225 | 32 | \$337 | \$1,489 | 2,941 | \$37,254 | 16.9% | \$13 |
| | Police | 100 | \$2,799 | 14 | \$76 | \$2,533 | 1,172 | \$21,246 | 32.9% | \$18 |
| | Fire | 27 | \$712 | 10 | \$132 | \$470 | 380 | \$7,471 | 16.4% | \$20 |
| September 30, 2011 | Teachers | 226 | \$4,734 | 37 | \$490 | \$497 | 3,130 | \$41,996 | 12.7% | \$13 |
| | Police | 228 | \$4,291 | 15 | \$152 | \$187 | 1,385 | \$25,572 | 20.4% | \$18 |
| | Fire | 98 | \$2,556 | 7 | \$86 | \$18 | 471 | \$9,958 | 33.3% | \$21 |
| September 30, 2012 | Teachers | 204 | \$4,807 | 49 | \$594 | \$1,198 | 3,285 | \$47,407 | 12.9% | \$14 |
| | Police | 156 | \$5,153 | 43 | \$476 | \$343 | 1,498 | \$30,592 | 19.6% | \$20 |
| | Fire | 78 | \$2,881 | 8 | \$81 | \$80 | 541 | \$12,838 | 28.9% | \$24 |
| September 30, 2013 | Teachers | 202 | \$5,289 | 39 | \$436 | \$706 | 3,448 | \$52,966 | 11.7% | \$15 |
| | Police | 110 | \$3,746 | 24 | \$248 | \$302 | 1,584 | \$34,392 | 12.4% | \$22 |
| | Fire | 64 | \$2,308 | 6 | \$50 | \$42 | 599 | \$15,138 | 17.9% | \$25 |

SCHEDULE G





SCHEDULE OF RETIREES ADDED TO AND REMOVED FROM ROLLS

FEDERAL PLUS DISTRICT BENEFIT (\$ IN THOUSANDS)

| | | Added | | Removed | | | Rolls at End of Year | | | |
|--------------------|----------------------------|--------|----------------------|---------|----------------------|---------------------------------------|-------------------------|------------------------------------|---|---------------------------------|
| Fiscal Year Ended | Plan | Number | Annual Allowances | Number | Annual Allowances | Increase Due to Plan Amendments | Number | Annual Allowances | Percentage Increase in Annual Allowances | Average Annual Allowances |
| September 30, 2009 | Teachers Police Fire | | | | | | 6,006 5,521 1,900 | \$232,909 \$243,698 \$94,682 | | \$39 \$44 \$50 |
| September 30, 2010 | Teachers | 216 | \$8,146 | 185 | \$6,969 | \$7,468 | 6,037 | \$241,554 | 3.7% | \$40 |
| | Police | 161 | \$7,790 | 162 | \$6,336 | \$2,762 | 5,520 | \$247,914 | 1.7% | \$45 |
| | Fire | 56 | \$2,128 | 89 | \$3,805 | \$1,150 | 1,867 | \$94,155 | -0.6% | \$50 |
| September 30, 2011 | Teachers | 239 | \$8,626 | 163 | \$6,168 | \$4,092 | 6,113 | \$248,104 | 2.7% | \$41 |
| | Police | 285 | \$7,181 | 146 | \$5,846 | \$3,190 | 5,659 | \$252,439 | 1.8% | \$45 |
| | Fire | 119 | \$4,716 | 51 | \$2,267 | \$1,131 | 1,935 | \$97,735 | 3.8% | \$51 |
| September 30, 2012 | Teachers | 218 | \$8,632 | 201 | \$7,421 | \$7,721 | 6,130 | \$257,036 | 3.6% | \$42 |
| | Police | 218 | \$11,195 | 174 | \$6,844 | \$6,412 | 5,703 | \$263,202 | 4.3% | \$46 |
| | Fire | 106 | \$5,780 | 67 | \$3,087 | \$2,339 | 1,974 | \$102,767 | 5.1% | \$52 |
| September 30, 2013 | Teachers | 390 | \$7,883 | 348 | \$6,676 | \$5,448 | 6,172 | \$263,691 | 6.3% | \$43 |
| | Police | 164 | \$8,218 | 172 | \$7,493 | \$3,572 | 5,695 | \$267,499 | 6.0% | \$47 |
| | Fire | 80 | \$4,327 | 60 | \$2,896 | \$1,322 | 1,994 | \$105,520 | 8.0% | \$53 |





SCHEDULE H

TEACHERS' RETIREMENT PLAN ANALYSIS OF FINANCIAL EXPERIENCE

Gains & Losses in Accrued Liabilities Resulting from Difference Between Assumed Experience & Actual Experience (\$ Millions)

| Type of Activity | \$ Gain (or Loss) For Year Ending 10/1/2013 | \$ Gain (or Loss) For Year Ending 10/1/2012 | |
|---|---|---|--|
| Age & Service Retirements. If members retire at older ages, there is a gain. If younger ages, a loss. | \$ (7.4) | \$ (11.0) | |
| Disability Retirements. If disability claims are less than assumed, there is a gain. If more claims, a loss. | (2.2) | (0.4) | |
| Death-in Service Benefits. If survivor claims are less than assumed, there is a gain. If more claims, there is a loss. | (0.6) | (0.6) | |
| Withdrawal From Employment. If more liabilities are released by withdrawals than assumed, there is a gain. If smaller releases, a loss. | 8.1 | 9.9 | |
| Pay Increases. If there are smaller pay increases than assumed, there is a gain. If greater increases, a loss. | 40.1 | (6.2) | |
| New Members. Additional unfunded accrued liability will produce a loss. | (16.5) | (13.1) | |
| Investment Income. If there is a greater investment income than assumed, there is a gain. If less income, a loss. | (51.4) | (72.6) | |
| Death After Retirement. If retirants live longer than assumed, there is a loss. If not as long, a gain. | 0.4 | 6.3 | |
| Other. Miscellaneous gains and losses resulting from changes in valuation software, data adjustments, timing of financial transactions, etc. | (8.2) | (12.8) | |
| Gain (or Loss) During Year From Financial Experience | \$ (37.7) | \$ (100.5) | |
| Non-Recurring Items. Adjustments for plan amendments, assumption changes, method changes or asset transfer to U.S. Treasury. | (21.5) | (15.4) | |
| Composite Gain (or Loss) During Year | <u>\$ (59.2)</u> | <u>\$ (115.9)</u> | |





SCHEDULE H

POLICE OFFICERS' AND FIREFIGHTERS' RETIREMENT PLAN ANALYSIS OF FINANCIAL EXPERIENCE

Gains & Losses in Accrued Liabilities Resulting from Difference Between Assumed Experience & Actual Experience (\$ Millions)

| Type of Activity | \$ Gain (or Loss) For Year Ending 10/1/2013 | \$ Gain (or Loss) For Year Ending 10/1/2012 | |
|---|---|---|--|
| Age & Service Retirements. If members retire at older ages, there is a gain. If younger ages, a loss. | \$ (7.2) | \$ 5.3 | |
| Disability Retirements. If disability claims are less than assumed, there is a gain. If more claims, a loss. | 5.2 | 7.8 | |
| Death-in Service Benefits. If survivor claims are less than assumed, there is a gain. If more claims, there is a loss. | 1.5 | 1.4 | |
| Withdrawal From Employment. If more liabilities are released by withdrawals than assumed, there is a gain. If smaller releases, a loss. | (2.8) | (5.2) | |
| Pay Increases. If there are smaller pay increases than assumed, there is a gain. If greater increases, a loss. | 161.4 | 168.6 | |
| New Members. Additional unfunded accrued liability will produce a loss. | (13.5) | (9.7) | |
| Investment Income. If there is a greater investment income than assumed, there is a gain. If less income, a loss. | (101.9) | (150.8) | |
| Death After Retirement. If retirants live longer than assumed, there is a loss. If not as long, a gain. | (0.4) | (0.6) | |
| Other. Miscellaneous gains and losses resulting from changes in valuation software, data adjustments, timing of financial transactions, etc. | 4.8 | 27.0 | |
| Gain (or Loss) During Year From Financial Experience | \$ 47.1 | \$ 43.8 | |
| Non-Recurring Items. Adjustments for plan amendments, assumption changes, method changes or asset transfer to | | | |
| U.S. Treasury. | (9.4) | 0.1 | |
| Composite Gain (or Loss) During Year | <u>\$37.7</u> | <u>\$43.9</u> | |

