DISTRICT OF COLUMBIA **RETIREMENT BOARD**

VALUATION AS OF OCTOBER 1, 2002 FOR FISCAL YEAR 2004





June 2003



D.C. Retirement Board June 10, 2003 Page 2

I, Bill Campbell, am a member of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,

Milliman USA

William n. Campbell

William N. Campbell, F.S.A., E.A. Consulting Actuary

Kadia Coley/RAS

Kadira Coley Actuarial Analyst

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Required Actuarial Certifications Under D.C. Code 1-907 for Fiscal Year 2004 (Dollars in Millions)

Certification	Code Section	Teachers	Police	Fire	Police/Fire <u>Combined</u>	Total <u>District</u>
FY 2004 Normal Contribution Rate Estimated FY 2004 Covered Payroll FY 2004 District Payment before §1-907.02(c)	§1-907.03(a)(3)(A) NA NA	0.8% \$366.1 \$2.9	33.6% \$203.7 \$68.4	35.3% \$76.7 \$27.1	34.1% \$280.4 \$95.5	15.2% \$646.5 \$98.4
FY 2002 Shortfall / Overpayment	§1-907.02(c)	(\$2.9)	\$2.0	(\$1.3)	S0.7	(\$2.2)
FY 2004 District Payment	NA	0.03	\$70.4	\$25.8	\$96.2	\$96.2
Present Value of Future Benefits	§1-907.03(a)(3)(B)	\$1,117.6	\$1,959.1	\$691.7	\$2,650.8	\$3,768.4
Current Value of Assets	§1-907.03(a)(3)(C)	\$733.1 ¹	\$774.9 ¹	\$309.4	\$1,084.3	\$1,817.4
Actuarial Value of Assets	§1-907.03(a)(3)(D)	\$860.8	\$916.7	\$362.2 1	\$1,278.9	\$2,139.7 ¹

2/24/03 William N. Campbell, F.S.A., E.A.

(Date)

These amounts are net of the following benefits payable as of September 30, 2002. \$3.8 million for teachers, \$1.9 million for police, and \$1.0 million for fire 1

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SECTION I BOARD SUMMARY



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Valuation Comments

The report presents the results of the October 1, 2002 actuarial valuation of the D.C. Police Officers and Fire Fighters Retirement Fund and the D.C. Teachers Retirement Fund (the funds) for the District of Columbia Retirement Board (the Board).

Prior to June 30, 1997, the Board had also been responsible for management and control of the Judges Retirement Fund. However, Title XI of the Balanced Budget Act of 1997 (Public Law 105-33,111 stat. 251) as amended, the "National Capital Revitalization and Self-Government Improvement Act of 1997" (the "Revitalization Act"), transferred management and control of the entire Judges Retirement Fund plus benefits accrued (factoring in Average Pay at date of termination or retirement) by the police officers, fire fighters, and teachers as of June 30, 1997 to the Federal Government.

Following the Federal legislation, the District government passed the Police Officers, Fire Fighters, and Teachers Retirement Benefit Replacement Plan (D.C. Law 12-152 codified as D.C. Code section 1-907.01 et seq., the "Replacement Plan Act" that required future District contributions to be made in accordance with the actuarially sound funding method specified in the law. In general, an actuarially sound funding method requires the employer to contribute a consistent amount (such as a level percent of pay) so benefits of the current workforce will be completely paid for (i.e., funded) by the time they leave employment due to retirement, disability, death, withdrawal, etc. Under the Replacement Plan Act, the District must contribute the level percent of pay that – combined with the actuarial value of assets, expected investment earnings, and future employee contributions – will pay for the benefits by the time the workforce leaves employment. The primary purposes of performing this valuation are as follows:

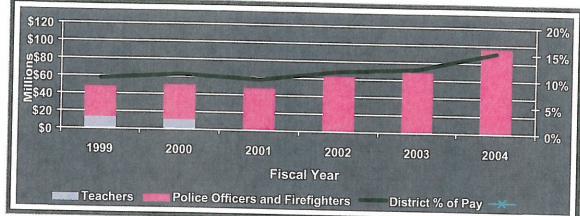
- to determine the appropriate contribution to the Funds to be paid by the District in Fiscal Year 2004 in accordance with the Replacement Plan Act;
- to disclose asset and liability measures; and
- to **analyze and report on trends** in the contributions, assets, and liabilities of the Funds over the past several years.

This valuation shows that there was an increase in the District contribution between Fiscal Year 2003 and Fiscal Year 2004. The District payment increased from \$74.6 (\$68.9 certified) million to \$96.2 million, or 29.0%. As with FY 2003, the whole FY 2004 District payment is for the Police Officers and Fire Fighters Retirement Fund.

The required contribution for the Teachers Retirement Fund remains zero but is likely to be greater than zero in FY 2005 unless experience is significantly more favorable than our assumptions; for example, if investment returns substantially exceed the return assumption of 7.25%.

Trends

One of the best ways to measure or evaluate the financial condition of a pension plan is to examine the historical trends that are evolving. Below, we present a chart which presents trend information on the District contribution rate. Our comments follow.





Comments

Chart A looks only at the District contributions for the applicable year. The District payment increased this year due to salaries for police and fire increasing more than assumed, assumption changes and lower than assumed investment returns.



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DISTRICT OF COLUMBIA TEACHERS' RETII SUMMARY OF PRINCIPAL (\$ in mill	REMEN VALU ions)	IT FUND			
Participan	and the second second second	bar (<u> </u>		
Active Members	UCII	ober 1, 2002	Ucto	ber 1, 2001	Change
Hired Prior to November 16, 1996 Hired on or After November 16, 1996 Total Retired Members and Beneficiaries (Post 6/30/97) Total Participants		3,736 2,822 6,558 1,062		4,009 2,694 6,703 829	-6.8% 4.8% -2.2% 28.1%
		7,620		7,532	1.2%
Annual Salaries of Active Members Annual Retirement Benefits for Retirees & Beneficiaries (post 6/30/97)	\$	340.9	\$	334.2	2.0%
Assets and Li	\$ abilities	4.5	\$	2.9	55.2%
Present Value of Future District Benefits	\$	1,117.6	\$	1,094.5	2.1%
District Assets for Valuation Purposes	\$	860.9	\$	846.5	1.7%
Present Value of Future Employee Contributions	\$	231.1	\$	268.3	
Present Value of Future District Contributions	\$	25.6	\$	0.0	-13.9% 0%
Present Value of Future Salaries	\$	3,108.8	\$	3,602.2	-13.7%
Current Value of District Assets	\$	733.1	\$	778.9	-13.7%
Contribution	Results				3.070
	Fisca	Year 2004	Fiscal	Year 2003	Change
Normal Contribution Rate		0.8%		0.0%	0.0%
Projected Payroll	\$	366.1	\$	358.8	2.0%
District Payment Before D.C. Code §1-907.02(c) Adjustment	\$	2.9	\$	0.0	0.0%
District Payment After D.C. Code §1-907.02(c) Adjustment	\$	0.0	\$	0.0	0.0%

DISTRICT OF COLUMBIA F POLICE OFFICERS AND FIRE FIG SUMMARY OF PRINCIPAL V (\$ in million)	HTE /ALU ons)	RS' RETIRE	MEN	T FUND	
Participant					
	Oc	tober 1, 2002	Oct	ober 1, 2001	Change
Active Members					
Hired Prior to February 15, 1980		453		503	-9.9%
Hired Between February 15, 1980 and November 10, 1996		3,164		3,325	-4.8%
Hired on or after November 10, 1996		1,199		1,092	9.8%
Total		4,816		4,920	-2.1%
Retired Members and Beneficiaries (Post 6/30/97)		678		585	15.9%
Total Participants		5,494		5,505	-0.2%
Annual Salaries of Active Members	\$	252.9	\$	231.0	9.5%
Annual Retirement Benefits for Retirees & Beneficiaries (post 6/30/97)	\$	3.2	\$	2.3	39.1%
Assets and Lia				2:0	59.178
Present Value of Future District Benefits	\$	2,650.7	\$	2,334.5	13.5%
District Assets for Valuation Purposes	\$	1,278.9	\$	1,193.4	7.2%
Present Value of Future Employee Contributions	\$	242.3	\$	234.8	3.2%
Present Value of Future District Contributions	\$	1,129.5	\$	906.2	24.6%
Present Value of Future Salaries	\$	3,321.7	\$	3,237.8	2.6%
Current Value of District Assets	\$	1,084.3	\$	1,095.0	-1.0%
Contribution R	esult	S			Carlos Carlos
	Fisc	al Year 2004	Fisc	al Year 2003	Change
Normal Contribution Rate		34.1%		27.9%	22.2%
Projected Payroll	\$	280.4	\$	249.9	12.2%
District Payment Before D.C. Code §1-907.02(c) Adjustment	\$	95.5	\$	69.8	36.8%
District Payment After D.C. Code §1-907.02(c) Adjustment	\$	96.2	\$	68.9	39.6%

DISTRICT OF COLUMBIA POLICE OFFICERS' P POLICE OFFICERS AND FIRE FIG SUMMARY OF PRINCIPAL (\$ in milli	ORTI HTEF VALU ons)	ON OF THE RS' RETIRE		T FUND	
Participant			<u> </u>		
Active Members ¹	Oct	ober 1, 2002	Oct	ober 1, 2001	Change
Hired Prior to February 15, 1980		007			
Hired Between February 15, 1980 and November 10, 1996		237		295	-19.7%
Hired on or after November 10, 1996		2,336		2,432	-3.9%
Total		970		847	14.5%
Retired Members and Beneficiaries (Post 6/30/97)		3,543		3,574	-0.9%
Total Participants		528		449	17.6%
		4,071		4,023	1.2%
Annual Salaries of Active Members	\$	186.1	\$	171.0	8.8%
Annual Retirement Benefits for Retirees & Beneficiaries (post 6/30/97)	•				
Assets and Lia	\$ abilitio	2.1	\$	1.4	50.0%
Present Value of Future District Benefits	\$	1,959.1	\$	1,728.5	13.3%
District Assets for Valuation Purposes	\$	916.7	\$	850.9	7.7%
Present Value of Future Employee Contributions	\$	186.3	\$	178.0	4.7%
Present Value of Future District Contributions	\$	856.1	\$	699.5	22.4%
Present Value of Future Salaries	\$	2,547.1	\$	2,452.3	3.9%
Current Value of District Assets	\$	774.9	\$	779.1	-0.5%
Contribution F	Results		+	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-0.578
		al Year 2004	Fisca	al Year 2003	Change
Normal Contribution Rate		33.6%		28.5%	17.9%
Projected Payroll	\$	203.7	\$	185.4	9.9%
District Payment Before D.C. Code §1-907.02(c) Adjustment	\$	68.4	\$	52.8	29.5%
District Payment After D.C. Code §1-907.02(c) Adjustment	\$	70.4	\$	52.5	34.1%

148 police officers coded as actives were removed from the data based on a match with the October 4th payroll report. These individuals appear to be former employees who were temporarily added to the database in order to make some retroactive payments.

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DISTRICT OF COLUMBIA RETIREMENT BOARD FIRE FIGHTERS' PORTION OF THE POLICE OFFICERS AND FIRE FIGHTERS' RETIREMENT FUND SUMMARY OF PRINCIPAL VALUATION RESULTS (\$ in millions) Participant Data												
Participant	and the support of the state	L 4 0000	0.1									
Active Members	Octo	ber 1, 2002	Octo	ber 1, 2001	Change							
Hired Prior to February 15, 1980		040										
Hired Between February 15, 1980 and November 10, 1996		216		208	3.8%							
Hired on or after November 10, 1996		828		893	-7.3%							
Total		229		245	-6.5%							
		1,273		1,346	-5.4%							
Retired Members and Beneficiaries (Post 6/30/97)		150		136	10.3%							
Total Participants		1,423		1,482	-4.0%							
Annual Salaries of Active Members	\$	66.8	\$	60.0	11.3%							
Annual Retirement Benefits for Retirees & Beneficiaries (post 6/30/97)	\$	1.1	\$	0.9	22.2%							
Assets and Lia	bilities				L2:270							
Present Value of Future District Benefits	\$	691.6	\$	606.0	14.1%							
District Assets for Valuation Purposes	\$	362.2	\$	342.5	5.8%							
Present Value of Future Employee Contributions	\$	56.0	\$	56.8	-1.4%							
Present Value of Future District Contributions	\$	273.4	\$	206.7	32.3%							
Present Value of Future Salaries	\$	774.6	\$	785.5	-1.4%							
Current Value of District Assets	\$	309.4	\$	315.9	-2.1%							
Contribution F	Results											
	Fisca	I Year 2004	Fiscal	Year 2003	Change							
Normal Contribution Rate		35.3%		26.3%	34.2%							
Projected Payroll	\$	76.7	\$	64.5	18.9%							
District Payment Before D.C. Code §1-907.02(c) Adjustment	\$	27.1	\$	17.0	59.4%							
District Payment After D.C. Code §1-907.02(c) Adjustment	\$	25.8	\$	16.4	57.3%							

SECTION II ASSETS AND LIABILITIES



In this section we present details regarding both the Assets and Liabilities of the Fund. In the following subsections, we will summarize the following:

- a) the Current Value and Actuarial Value of District Assets;
- b) the Present Value of Future District Retirement Benefits; and
- c) the Present Value of Accrued Retirement Benefits.

Current Value of District Assets

In this subsection, we present details with regards to the **Current Value of District Assets**.

Table II-1 traces the increases and decreases in the Current Value of District Assets from October 1, 2001 through October 1, 2002. The allocation of benefit payments and investment income between police and fire are approximations based on the most recent information available from the District of Columbia.

	CURRENT	TABLI VALUE OF OF OCTO (\$ in mil Teachers	DI BEI	STRICT R 1, 200	 SSETS	Police &	Memo
		Fund		Police	Fire	Fire Fund	Total
1. 2. 3. 4. 5. 6.	Market Value of Assets as of October 1, 2001 ¹ FY 2002 District Contributions FY 2002 Employee Contributions ² FY 2002 Actual Benefit Payments ³ FY 2002 Investment Earnings Actual Current Value of Assets	\$ 778.9 0.0 25.3 0.0 (67.3)	\$	779.1 56.3 14.0 (0.2) (72.4)	\$ 315.9 18.3 5.2 (0.1) (28.9)	\$ 1,095.0 74.6 19.2 (0.3) (101.3)	\$ 1,873.9 74.6 44.5 (0.3) (168.6)
7. 8.	as of October 1, 2002 Benefits Payable for FY 2002 Final Current Value of Assets	\$ 736.9 (3.8)	\$	776.8 (1.9)	\$ 310.4 (1.0)	\$ 1,087.2 (2.9)	\$ 1,824.1 (6.7)
9.	as of October 1, 2002 Approximate Rate of Return	\$ 733.1 (7.9%)	\$	774.9 (7.9%)	\$ 309.4 (7.9%)	\$ 1,084.3 (7.9%)	\$ 1,817.4 (7.9%)

¹ The current value of assets as of October 1, 2001 was equal to the market value less estimated fiscal year 2001 benefits payable of \$2.6 million for the teachers fund and \$2.0 million for the police officers and fire fighters fund as reported in the October 1, 2001 actuarial valuation report.

² The employee contributions for police officers and fire fighters were allocated based on their covered payroll.

³ The fund paid \$4.6 million in benefits which was already reflected as benefits payable.



Actuarial Value of District Assets

In this subsection, we present details with regards to the **Actuarial Value of District Assets**.

An actuarial value of assets is a "smoothed" value of assets based upon the market value of assets. Actuarial value, rather than market value, of assets is used to determine the District contribution.

Since the annual District contribution is based on the difference between the present value of future benefits and assets, fluctuations in assets can cause similar fluctuations in annual contributions. The use of a smoothing method for assets can help reduce the effect of market fluctuations on the District contributions.

The current actuarial value of assets method approved by the Board is the expected actuarial value of assets (assuming a 7.25% rate of return) plus 1/3 of the difference between the expected and actual market value of assets. There is then a final adjustment made for the effect of the adjustment pursuant to D.C. Code § 1-907.02(c). This adjustment is explained in further detail in Section III of this report.

	ACTUARIAL AS 0	OF (TABLE LUE OI OCTOE \$ in mil eachers	F DI BER	STRIC [®] 1, 200	SSETS		Police &		Memo
1			Fund		Police	Fire		ire Fund		Total
1. 2. 3. 4.	Actuarial Value of Assets as of October 1, 2001 FY 2002 District Contributions FY 2002 Employee Contributions ¹ FY 2002 Estimated Benefit	\$	846.5 0.0 25.3	\$	850.9 56.3 14.0	\$ 342.5 18.3 5.2		1,193.4 74.6 19.2	\$	2,039.9 74.6 44.5
5.	Payments FY 2002 Expected Investment Earnings	_	(3.8) <u>62.2</u>	_	(2.1) 66.2	 (1.1) <u>26.4</u>	_	(3.2) <u>92.6</u>	_	(7.0) <u>154.8</u>
6. 7.	Expected Actuarial Value of Assets as of October 1, 2002 Final Current Value of Assets	\$		\$	985.3	\$ 391.3	\$	1,376.6	\$	2,306.8
8.	as of October 1, 2002 Smoothed Value of Assets as of October 1, 2002	_	733.1		774.9	 309.4	-	1,084.3	-	1,817.4
9. 10	[(6.) + 1/3 x (7 6.)] Present Value of D.C. Code §1-907.02(c) Adjustment Final Actuarial Value of Asset as of	\$	864.5 (3.6)	\$	915.1 <u>1.6</u>	\$ 364.0 (1.8)	\$	1,279.1 (0.2)	\$	2,143.6 (3.8)
	October 1, 2002 [(8.) + (9.)]	\$	860.9	\$	916.7	\$ 362.2	\$	1,278.9	\$	2,139.8

Table II-2 shows the development of the Actuarial Value of District Assets as of October 1, 2002.

¹ The employee contributions for police officers and fire fighters were allocated based on their covered payroll.

Present Value of Future District Retirement Benefits

In this subsection, we detail the calculation of the present value of future District benefits. This calculation is necessary for developing the fiscal year 2004 District payment.

The present value of future benefits represents the total lump sum value on the valuation date that would be sufficient to pay for all future benefits of current participants and beneficiaries (including inactive members) considering expected future salary increases, service credits, employment termination, mortality, and cost of living adjustments.

	PRESENT VALUE	OF OCTOB (\$ in mill Teachers	RE DISTRI ER 1, 2002 ions)	2		Po	olice &		<i>N</i> emo
1. 2. 3.	Active Present Value of Future District Benefits Retiree Present Value of Future District Benefits Total Present Value of Future District Benefits	Fund \$ 1,039.7 \$ 77.9 \$ 1,117.6	Police \$ 1,880.4 \$ 78.7 \$ 1,959.1	\$ \$	668.5 23.1 691.6	\$ 2 \$	e Fund 2,548.9 101.8 2,650.7	\$ 3 \$	Total 3,588.6 179.7 3,768.3

Present Value of Accrued District Retirement Benefits

In Table II-4, we disclose the accumulated liability of the Fund if everyone stopped working or if the Plans were terminated.

The present value of accrued benefits represents the total lump sum value on the valuation date that would be sufficient to pay for all benefits accrued to the valuation date.

We have one comment on the present value of accrued benefits. The fact that plan assets exceed these liabilities does not constitute "overfunding". Under the funding method employed by the plan (as required by law), liabilities accruing each year are not paid for as earned in that year. Rather, benefits are funded in a way as to maintain a level funding pattern (as a percent of pay) between the valuation date and retirement date. The funding method for this valuation is referred to as the "aggregate" actuarial cost method. Therefore, assets are expected to exceed liabilities accrued to date early in a member's career in order to avoid a dramatic escalation in costs for benefits earned late in a member's career (when salary and service are highest).

	PRESENT VALUE	TABLE OF ACCRI OF OCTOE (\$ in mill	UED DISTR BER 1, 200		FITS	
		Teachers Fund	Police	Fire	Police & Fire Fund	Memo Total
1. 2.	Present Value of Accrued District Benefits as of October 1, 2002 Actuarial Value of Assets as of	\$ 298.9	\$ 427.3	\$ 186.0	\$ 613.3	\$ 912.2
3.	October 1, 2002 (Table II-2) Unfunded Present Value of Accrued District Benefits	860.9	916.7	362.2	1,278.9	<u>2,139.8</u>
	(1 2., not less than zero)	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0

SECTION III CONTRIBUTIONS



CONTRIBUTIONS

In this section, we develop the fiscal year 2004 District payment. The normal contribution rate developed is a percentage of active member payroll. The dollar amount of the District payment is determined by applying the contribution rate to the assumed payroll for fiscal year 2004, (based on assumed actuarial increases as shown on page B-2).

An actuarially sound funding method is designed so that the benefits of the current workforce will be completely paid for (i.e., funded) by the time they leave employment due to retirement, disability, death, withdrawal, etc. The first step in this process is to determine the present value, as of the valuation date, of all future benefits payable from the retirement funds. In the District's case, this figure is the present value of future District benefits developed in Table II-3.

The present value of future District benefits will be funded from three sources: assets, future employee contributions, and future District contributions. The assets, of course, are known as of the valuation date. For these purposes, actuaries, commonly use an actuarial value of assets.

An actuarial value of assets is a "smoothed market value" and is used to keep the contribution rate from fluctuating due to sudden upswings or downturns in the financial markets. As mentioned earlier in this report, the Board has elected to use an actuarial value of asset method for determining the annual District contribution.

The second source for paying future benefits is current employee contributions. These are specified as a fixed percentage of future pay (7% or 8%, depending upon hire date).

Future District contributions must make up any difference between the future District benefits and the actuarial value of assets plus future employee contributions. Thus, the value of future District contributions is the present value of future District benefits less the actuarial value of assets less the present value of future employee contributions.

The future District contributions are spread over the future payroll of the workforce to determine the normal contribution rate. The District contribution applicable to the fiscal year is the normal contribution rate times the projected payroll.

Finally, the District payment reflects the adjustment pursuant to D.C. Code §1-907.02(c). Further explanation of this adjustment can be found on page III-3.



Development of the Fiscal Year 2004 District Payment

	TABLE III-1 FY 2004 PAYMENT (\$ in millions)														
			achers ⁻ und		Police		Fire		olice &		Memo				
Distric	Value of Future t Benefits I Value of Assets		1,117.6 860.9	\$		\$	Fire 691.7 362.2	\$ 2	re Fund 2,650.8 1,278.9		Total 3,768.3				
3. Present	Value of Future yee Contributions		231.1		186.3		56.0		242.3		2,139.8 <u>473.4</u>				
[(1) - (1) 5. Present	Normal Costs 2) - (3), not les than \$0] Value of Future Payroll Contribution Rate [(4) / (5)]	\$ \$3	25.6 9,062.8 0.8%	\$ \$	856.1 2,547.1 33.6%	\$ \$	273.5 774.6 35.3%	\$ 3	1,129.6 3,321.7 34.1%		,155.1 5,384.5 N/A				
7. Projecte 8. FY 2004	d FY 2004 Payroll District Payment	\$	366.1	\$	203.7	\$	76.7	\$	280.4	\$	646.5				
9. D.C. Coo 10. FY 2004	§1-907.02(c) [(6) x (7)] de §1-907.02(c) Adjustment Payment	\$	2.9 _(3.9) ¹	\$ —	68.4 2.0	\$ —	27.1 (1.3)	\$	95.5 <u>0.7</u>	\$	98.4 (2.2)				
[(8) + (9), not less than \$0]	\$	0.0	\$	70.4	\$	25.8	\$	96.2	\$	96.2				

1 The actual teachers D.C. Code §1-907.02(c) adjustment is \$(3.9). Since the FY 2004 District payment is \$2.9, the full adjustment cannot be applied, and \$(1.0) will be carried forward for use in future years.

§1-907.02(c) Adjustment to the Fiscal Year 2004 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."

The D.C. Code §1-907.02(c) adjustment to the fiscal year 2004 District payment is calculated by taking the actual fiscal year 2002 covered payroll for each employee class (which is provided by the District) and then multiplying by the fiscal year 2002 normal contribution rates for each employee class, which were certified in our October 1, 2000 report. This result gives the fiscal year 2002 contribution that was required to be made by the District. The required contribution is then compared to the fiscal year 2002 contribution that was actually paid by the District. The difference between the required and actual contributions is the preliminary D.C. Code §1-907.02(c) adjustment.

For FY 2003 the teachers had a credit balance of \$3.9 million. However, this amount was not needed for Fiscal Year 2003 due to a zero District payment. Any carryover amount can be applied to the required teachers payment in future years.

	TABLE III-2 D.C. CODE §1-907.02(c) ADJUSTMENT TO THE FY 2004 PAYMENT (\$ in millions)														
	Teachers Police Fire														
1. 2. 3. 4. 5.	Actual FY 2002 Covered Payroll FY 2002 Normal Contribution Rate ¹ Actual FY 2002 Contribution Required Actual FY 2002 Contribution Paid Preliminary D.C. Code §1-907.02(c) Adjustment to	\$ \$	324.9 0.3% 1.0 <u>1.0</u>	\$ \$	192.9 22.9% 44.2 42.2	\$	62.9 28.4% 17.9 19.2								
6. 7.	FY 2004 Payment [(3) - (4)] FY 2003 Unrecognized Amount Final D.C. Code §1-907.02(c) Adjustment to FY 2004 Payment [(5) + (6)]	\$	0.0 (3.9) (3.9)	\$	2.0 0.0 2.0	\$	(1.3) <u>0.0</u> (1.3)								

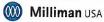
Table III-2 shows the development of the D.C. Code §1-907.02(c) adjustment for each employee class.

Includes 0.6% for police and 0.8% of pay for fire for changes in benefits

1

APPENDICES

Appendix A	Membership Data and Profile
Appendix B	Actuarial Assumptions and Procedures
Appendix C	.Summary of the Provisions of the Program
Appendix D	Auditor's Information



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APPENDIX A

MEMBERSHIP DATA AND PROFILE



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Teachers, Police, and Fire Service and Salary Distributions by Age	4-9
Teachers, Police, and Fire Benefit Payment Distributions by Age	10-18

The District of Columbia's Office of Pay and Retirement Services provided the actuary with membership data as of September 30, 2002. Assumptions were made on elements missing from the data provided.

RETIRED MEMBERSHIP STATISTICS AS OF SEPTEMBER 30, 2002 AVERAGE ANNUITY BY RETIREMENT TYPE															
	Teachers Police Fire														
Total Be	enefits	9				TV SONT									
Number of Service Retirements Average Service Annuity	\$	4,396 33,742	\$	3,145 39,895	\$	916 48,274									
Number of Disability Retirements Average Disability Annuity	\$	493 24,078	\$	1,343 35,889	\$	571 41,690									
Number of Survivors Average Survivor Annuity	\$	445 15,739	\$	1,222 19,680	\$	492 21,812									
Federal E	Benefi		A BARREN			Stand State									
Number of Service Retirements ¹⁾ Estimated Average Service Annuity	\$	4,396 32,999	\$	3,145 39,589	\$	916 47,690									
Number of Disability Retirements ¹⁾ Average Disability Annuity	\$	493 21,618	\$	1,343 35,025	\$	571 40,698									
Number of Survivors ¹⁾ Average Survivor Annuity	\$	445 15,739	\$	1,222 19,680	\$	492 21,812									
District B	Benefi														
Number of Service Retirements Estimated Average District Service Annuity	\$	1,010 3,235	\$	423 2,271	\$	97 5,515									
Number of Disability Retirements Average District Disability Annuity	\$	52 22,322	\$	105 11,052	\$	53 10,683									
Number of Survivors ²⁾ Average District Survivor Annuity	\$	0 0	\$	0 0	\$	0 0									

ACTIVE MEMBERSHIP STATISTICS AS OF SEPTEMBER 30, 2002												
Employee Class	Average Age	Average Service	Average Salary									
Teachers	45.4	13.6	\$ 52,300									
Police	37.5	11.7	\$ 53,600									
Fire	38.8	14.6	\$ 54,200									

¹⁾ Includes participants who are the responsibility of both the Federal and District Governments. ²⁾ There is no survivor information for the District Inactive participants in the data received from OPRS.

Data Assumptions

The following assumptions were made with respect to information provided by the District of Columbia:

(a) Active Members

Data for active members was predominantly used as provided by the District. No active teachers or fire fighters were eliminated from the data. 148 active police officers were removed from the data so the number of officers in the valuation would correspond to the number of officers in the October 4, 2002 payroll data export. These individuals appear to be former employees who were temporarily added to the database in order to make some retroactive payments.

Teachers

Charter school teachers data is not available so the active liabilities and payroll were increased by 1.5%.

(b) Former Members

The data submitted for former members included participants who have withdrawn contributions and are no longer entitled to a deferred benefit. After further investigation and consultation with staff members of the Board, we have made the following assumptions regarding former Members:

Teachers

An examination of a little more than one-third of the records of former teachers on file yielded nine teachers who are entitled to a deferred benefit. Consequently, we have assumed that there are 25 teachers with deferred vested benefits, all females age 50 with fifteen years of service and a final salary of \$48,720.

Police/Fire

Since practically all police officers and fire fighters withdraw their contributions if they terminate prior to retirement, we have assumed that there are no police officers or fire fighters with a deferred vested benefit.

(c) Retired Members

All retired members whose gender was not on file were designed by the letter C. These retirees were assumed to be all male (with female spouses) for the police officers and fire fighters' program and assumed to be all female (with male spouses) for the teachers' program. Members are assumed to have recovered all contributions if they have been receiving benefits for more than 3 years (teachers) or 2 years (police/fire).

The Board provided the fiscal year 2002 employee and District contributions for all three classes of employees. We allocated the contributions between police officers and fire fighters based on payroll.

District of Columbia Teachers' Retirement Fund

	SCHEDULE OF ACTIVE PARTICIPANTS HIRED BEFORE NOVEMBER 16, 1996														
	Years of Service														
	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	Over 40	Total					
Under 20	0	0	0	0	0	0	0	0	0	0					
20 - 24	0	0	0	0	0	0	0	0	õ	Ő					
25 - 29	0	11	0	0	0	0	õ	õ	õ	11					
30-34	0	97	27	4	0	ō	Ő	ñ	0	128					
35-39	0	67	88	44	õ	ñ	ů N	Ő	0	120					
40-44	0	56	103	122	21	ŏ	Ő	0	0	302					
45-49	0	51	118	206	126	43	0	0	0	544					
50-54	0	49	121	202	126	254	206	12	0	970					
55-59	0	34	72	118	64	115	488	155	2	1,049					
60-64	Ő	14	52	48	26	30	82	124	10						
Over 65	õ	5	18	22	20	5			12	388					
Total	0	384	599	766	371	447	<u>17</u> 793	<u>34</u> 325	<u>36</u> 51	<u>145</u> 3,736					

	SCHEDULE OF ACTIVE PARTICIPANTS HIRED ON OR AFTER NOVEMBER 16, 1996														
						f Service									
	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	Over 40	Total					
Under 20	2	0	0	0	0	0	0	0	0	2					
20 - 24	211	0	0	0	0	0	0	0	Ō	211					
25 - 29	710	24	0	0	0	0	0	ō	ŏ	734					
30-34	559	56	0	0	0	0	0	õ	õ	615					
35-39	264	30	0	0	0	0	0	Ő	ň	294					
40-44	223	23	0	0	0	Ō	Ō	õ	õ	246					
45-49	221	23	0	0	Ō	õ	õ	Ő	ő	240					
50-54	210	26	0	0	0	Õ	õ	Ő	0	236					
55-59	136	22	0	Ō	õ	õ	0	0	0	158					
60-64	51	5	Ő	õ	õ	Ő	0	0	0	56					
Over 65	21	5	0	Ő	0	0	0	0	0						
Total	2,608	214	Ö	0	Ö	Ö	0	00	0	<u>26</u> 2,822					

	SCHEDULE OF ALL ACTIVE PARTICIPANTS Years of Service														
	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	Over 40	Total					
Under 20	2	0	0	0	0	0	0	0	0	2					
20 - 24	211	0	0	0	0	Ō	õ	õ	õ	211					
25 - 29	710	35	0	0	0	Ō	õ	õ	ñ	745					
30-34	559	153	27	4	Ō	õ	õ	õ	ő	743					
35-39	264	97	88	44	õ	õ	õ	0	0	493					
40-44	223	79	103	122	21	Ő	õ	0	0	548					
45-49	221	74	118	206	126	43	ő	0	0	788					
50-54	210	75	121	202	126	254	206	12	0	1.206					
55-59	136	56	72	118	64	115	488	155	2	1,200					
60-64	51	19	52	48	26	30	82	124	12						
Over 65	<u>21</u>	<u>10</u>	<u>18</u>	22	8	5	17	<u>34</u>		444 <u>171</u>					
Total	2,608	598	599	766	371	447	793	325	<u>36</u> 51	6,558					



District of Columbia Teachers' Retirement Fund

	SCHEDULE OF AVERAGE SALARIES FOR ACTIVES HIRED BEFORE NOVEMBER 16, 1996																	
	0	Years of Service 0 to 4 5 to 9 10 to 14 15 to 19 20 to 24 25 to 29 30 to 34 35 to 39 Over 40																
Under 20	S	0	\$	0	S	0 10 14	S	0	\$	0 10 24	\$	0	c e	01034	e e	0 10 39	S	over 40
20 - 24	Š	õ	Ŝ	õ	ŝ	Ö	Ŝ	Ő	ŝ	Ő	ŝ	0	ŝ	0	ф S	0	φ Q	0
25 - 29	\$	0	\$	45,968	\$	Ō	Š	Ō	ŝ	Õ	ŝ	Ő	\$	Ő	ŝ	0	ŝ	0
30-34	\$	0	\$	43,990	\$	47,372	\$	48,994	\$	Ō	\$	Ō	Š	Ő	ŝ	Ő	ŝ	0
35-39	\$	0	\$	46,580	\$	51,615	\$	57,800	\$	0	\$	Ō	Ŝ	0	Š	0	ŝ	Ő
40-44	\$	0	\$	48,961	\$	55,282	\$	59,243	\$	59,549	\$	0	\$	0	\$	Ō	Š	Ő
45-49	\$	0	\$	52,448	\$	58,901	\$	60,523	\$	61,861	\$	62,770	\$	0	\$	0	\$	0
50-54	\$	0	\$	52,614	\$	58,945	\$	62,544	\$	63,482	\$	64,036	\$	63,924	\$	66,600	\$	0
55-59	\$	0	\$	51,759	\$	58,181	\$	62,197	\$	62,615	\$	65,080	\$	64,895	\$	67,002	\$	59,573
60-64	\$	0	\$	48,228	\$	59,639	\$	60,704	\$	61,144	\$	63,312	\$	62,800	\$	63,996	\$	69,804
Over 65	<u>\$</u>	0	\$	54,210	<u>\$</u>	60,276	\$	63,149	\$	62,120	\$	64,276	\$	62,995	\$	65,538	\$	65,700
Total	\$	0	\$	48,423	\$	56,716	\$	60,980	\$	62,366	\$	64,137	\$	64,385	\$	65,687	\$	66,305

	SCHE	DULE	OF	AVERAG	SE SAL	ARIES	FOR	ACTIV	ES H	IRED ON		AFTER	NO	VEMBE	<mark>R 1</mark> 6	1996		
		SCHEDULE OF AVERAGE SALARIES FOR ACTIVES HIRED ON OR AFTER NOVEMBER 16, 1996 Years of Service																
	0 tc	04		5 to 9	10 to 14		15	15 to 19		20 to 24		to 29	30 to 34		35 to 39		Over 40	
Under 20	\$ 26	,434	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
20 - 24	\$ 33	176	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
25 - 29	\$ 36	293	\$	40,137	\$	0	\$	0	\$	0	\$	0	\$	0	S	0	\$	Ō
30-34	\$ 40	361	\$	41,480	\$	0	\$	0	\$	0	\$	0	S	0	\$	0	\$	Ō
35-39	\$ 42	183	\$	47,458	\$	0	\$	0	\$	0	S	0	Ś	Ō	S	Ō	ŝ	Ő
40-44	\$ 44	492	\$	48,555	\$	0	\$	0	\$	0	\$	0	S	Ō	S	Ő	Ś	0
45-49	\$ 45	220	\$	49,941	\$	0	\$	0	\$	0	S	0	S	Õ	ŝ	Ő	ŝ	Ő
50-54	\$ 47	400	\$	46,005	\$	0	\$	0	S	0	\$	0	\$	õ	ŝ	ő	ŝ	0
55-59	\$ 50	819	\$	50,537	\$	0	S	0	\$	0	S	Ō	\$	õ	S	ő	ŝ	0
60-64	\$ 48	895	\$	53,303	\$	0	\$	0	\$	0	\$	0	S	0	ŝ	Ő	ŝ	0
Over 65	\$ 46.	299	\$	56,784	\$	0	\$	Ō	S	Ō	S	Ő	S	Ő	\$	ň	ŝ	0
Total		938			\$	Ō	\$	0	\$	Ō	\$	0	\$	0	\$	0	\$	0

0 Milliman USA

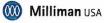
	SCHEDULE OF ACTIVE POLICE OFFICERS HIRED BEFORE NOVEMBER 16, 1996 Years of Service														
	0 to 4	5 to 9	10 to 14	15 to 19		25 to 29	30 to 34	35 to 39	Over 40	Total					
Under 20	0	0	0	0	0	0	0	0	0	0					
20 - 24	0	0	0	0	0	0	0	0	0	0					
25 - 29	0	36	4	0	0	0	0	0	0	40					
30-34	0	106	285	12	0	0	0	0	0	403					
35-39	0	77	753	98	0	0	0	0	0	928					
40-44	0	17	301	294	87	0	0	0	0	699					
45-49	0	2	32	83	168	56	6	Ō	Ō	347					
50-54	0	0	0	2	49	17	39	4	0	111					
55-59	0	0	0	0	1	3	20	12	0	36					
60-64	0	0	0	0	0	0	3	3	0	6					
Over 65	0	3	0	0	0	0	0	0	õ	3					
Total	ō	241	1,375	489	305	76	68	19	ō	2,573					

	SCHEDULE		E POLICE	OFFICER			ER NOVE	MBER 16,	1996	
	0 to 4	5 to 9	10 to 14	15 to 19		f Service 25 to 29	30 to 34	35 to 39	Over 40	Total
Under 20	0	0	0	0	0	0	0	0	0	0
20 - 24	62	0	0	0	0	0	0	0	0	62
25 - 29	280	69	0	0	0	0	0	0	0	349
30-34	230	96	0	0	0	0	0	0	0	326
35-39	113	32	0	0	0	0	0	0	0	145
40-44	47	7	0	0	0	0	0	0	0	54
45-49	15	6	0	0	0	0	0	0	0	21
50-54	7	2	0	0	0	0	0	0	0	9
55-59	2	1	0	0	0	0	0	0	0	3
60-64	0	0	0	0	0	0	0	0	0	0
Over 65	1	3	<u>0</u>	<u>0</u>	<u>0</u>	0	0	0	0	1
Total	757	454	ō	ō	ō	ō	ō	0	ō	970

		S	CHEDULE	OF ALL A	CTIVE POL	ICE OFFIC	CERS			
	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	Over 40	Total
Under 20	0	0	0	0	0	0	0	0	0	0
20 - 24	62	0	0	0	0	0	0	0	0	62
25 - 29	280	105	4	0	0	0	0	0	0	389
30-34	230	202	285	12	0	0	0	0	0	729
35-39	113	109	753	98	0	0	0	0	0	1,073
40-44	47	24	301	294	87	0	0	0	0	753
45-49	15	8	32	83	168	56	6	0	Ō	368
50-54	7	2	0	2	49	17	39	4	Ō	120
55-59	2	1	0	0	1	3	20	12	0	39
60-64	0	0	0	0	0	0	3	3	Ō	6
Over 65	1	3	0	0	0	0	0	Ō	ō	4
Total	757	454	1,375	489	305	76	68	19	Ō	3,543

SCHE	DUL	E OF AV	/ER	AGE SAL	AR	IES FOR	AC			OFFICER of Service		HIRED B	EFO	ORE NOV	/EN	IBER 16	199	6
	0	to 4		5 to 9	1	10 to 14	1	15 to 19	2	20 to 24	2	5 to 29	3	0 to 34	3	5 to 39	Ov	er 40
Under 20	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
20 - 24	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	S	Ō
25 - 29	\$	0	\$	50,808	\$	51,016	\$	0	\$	0	\$	0	Ś	0	\$	0	ŝ	Ő
30-34	\$	0	\$	50,962	\$	53,451	\$	54,317	\$	0	S	0	Ŝ	Ō	S	Õ	ŝ	Ő
35-39	\$	0	\$	51,279	\$	54,749	\$	58,301	\$	0	\$	0	S	Ō	S	Ő	S	ő
40-44	\$	0	\$	51,043	\$	54,520	\$	60,589	\$	65.039	Š	ō	\$	ō	ŝ	0	S	ő
45-49	\$	0	\$	50,211	\$	54,896	\$	60,391	\$	68,875	\$	69,613	Ś	67,798	ŝ	Ő	S	ň
50-54	\$	0	\$	0	\$	0	\$	60.614	\$	68,910	Š	68,240	Š		Š	70.894	ŝ	0
55-59	\$	0	\$	0	\$	0	S	0	\$	71,604	ŝ	68,982	· ·	71,722	\$		ŝ	ň
60-64	\$	0	\$	0	\$	0	\$	0	Ś	0	S	0	S	68,496	ŝ		\$	0
Over 65	\$	0	\$	54,583	\$	0	Ś	0	Ś	Ō	\$	Ő	S	0	S	0,000	ŝ	0
Total	\$	0	\$	51,085	\$	54,423	\$	59,943	\$	67,795	\$	69,281	\$	71,970	\$	66,754	\$	0

SCHEDU	ILE	OF AVER	RAG	E SALAF	RIES F	OR AC	TIVE				HIRE	ED ON O	R A	FTER N	OVE	MBER	16, 1	996
		0 to 4		5 to 9	10	to 14	15	to 19		Service to 24	25	5 to 29	30	to 34	25	to 39	0	ver 40
Under 20	\$	0	\$	0	\$	0	\$	0	S	0	S	0	\$	0	S.	0	\$	
20 - 24	\$	38,884	\$	0	\$	0	\$	0	\$	0	\$	Ō	\$	õ	ŝ	õ	ŝ	o
25 - 29	\$	42,363	\$	46,445	\$	0	\$	0	\$	0	\$	0	\$	0	\$	õ	Š	Ő
30-34	\$	42,890	\$	46,866	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
35-39	\$	44,586	\$	48,089	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
40-44	\$	45,806	\$	46,993	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
45-49	\$	44,792	\$	47,995	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
50-54	\$	50,461	\$	98,909	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
55-59	\$	83,254	\$	49,068	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
60-64	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
Over 65	-	45,541	S	0	5	0	<u>\$</u>	0	<u>\$</u>	0	\$	0	<u>\$</u>	0	\$	0	<u>\$</u>	0
Total	\$	43,019	\$	47,448	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0



SCH	IEDU	LE OF /	AVE	RAGE SA	ALA	RIES FO	RA			IGHTERS		RED BE	FOI	RE NOVE	ME	BER 16, 1	996	
	the sea								ars	of Service								
	0	to 4		5 to 9	1	10 to 14	1	15 to 19	2	20 to 24	2	5 to 29	3	0 to 34	3	5 to 39	Ove	er 40
Under 20	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	C
20 - 24	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	S	0	S	C
25 - 29	\$	0	\$	39,405	\$	46,916	\$	0	S	0	S	0	S	Ő	ŝ	ñ	ŝ	0
30-34	\$	0	\$	43,837	\$	48,229	\$	51.583	\$	0	s	Ő	ŝ	Ő	ŝ	ő	ŝ	0
35-39	\$	0	\$	44.818	\$		S	56,904	Ś	55,424	S	Ő	ŝ	0	ç	0	¢	0
40-44	\$	0	Ś	51,957	Ś	68	Š		Ŝ	64,256	S	62.847	S	0	ŝ	0	φ	0
45-49	\$	0	Ś	0	\$	49,725	Š		Š	68,597	\$		S	59.401	¢ \$	0	¢	0
50-54	\$	0	\$	Ō	S	0	s	52.797	Ŝ	69.851	ŝ	78.930	ŝ		ę	0	¢ ¢	0
55-59	S	Ō	\$	0	S	Ő	S	0_,01	ŝ	00,001	φ	90.857	ŝ	89,718	\$	86,677	ф Ф	0
60-64	Ś	Ő	ŝ	Ő	S	õ	ŝ	0	ŝ	0	¢ ¢	0,007	9 6	03,710	φ ¢	00,077	Φ C 10	0 017
Over 65	\$	õ	Ś	Ő	ŝ	Ő	ŝ	0	Ψ	0	¢	0	9	0	9	0	φIU	0,817
Total	\$	0	\$	45,198	\$	48,659	\$	57,956	\$	66,974	\$	75,072	9 5	82,124	9 5	86.677	<u>⊅</u> \$10	0.817

SCHEE	ULE	E OF AV	ERA	GE SALA	RIES	FOR A	CTIV	E FIRE	IGH	FERS HI	RED	ON OR	AF	TER NO	VEN	BER 16	. 199	96
										Service								
		0 to 4		5 to 9	10	to 14	15	to 19	20	to 24	25	to 29	30	to 34	35	to 39	Ov	er 40
Under 20	\$	36,486	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
20 - 24		37,724	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
25 - 29	\$	38,341	\$	39,405	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	Ś	0
30-34	\$	38,180	\$	42,783	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	S	0
35-39	\$	39,405	\$	43,575	\$	0	\$	0	\$	0	\$	0	\$	0	S	0	S	0
40-44	\$	79,807	\$	43,388	\$	0	\$	0	\$	0	\$	0	\$	0	S	0	Ś	0
45-49	\$	0	\$	0	\$	0	\$	0	\$	0	S	0	\$	0	S	Ō	S	õ
50-54	\$1	19,803	\$	0	\$	0	\$	0	S	0	\$	0	S	0	ŝ	ñ	ŝ	0
55-59	\$	0	\$	0	\$	0	\$	0	\$	0	S	Õ	\$	Õ	ŝ	ő	\$	ő
60-64	\$	0	\$	0	\$	0	\$	0	\$	0	S	Õ	S	Ő	s	ñ	ŝ	0
Over 65	\$	0	\$	0	\$	0	\$	0	\$	ō	\$	Ő	ŝ	õ	S	ő	ŝ	0
Total	\$	39,597	\$	42,900	\$	0	\$	0	\$	0	\$	0	\$	Ö	\$	0	\$	0

	AGE-BENER	TT DISTRIBUTION OF R BENEFITS PAYABLE B	ETIREES AND BE		
Age	Count	Annual Benefits	Age	Count	Annual Benefits
Under 24	0	0	54	16	234,183
25	0	0	55	20	262,101
26	0	0	56	65	298,500
27	0	0	57	79	404,715
28	0	0	58	113	536,897
29	0	0	59	117	371,051
30	0	0	60	116	383,074
31	0	0	61	82	267,282
32	1	16,920	62	59	211,416
33	0	0	63	72	271,626
34	0	0	64	71	240.683
35	0	0	65	57	149,128
36	0	0	66	47	124,513
37	0	0	67	25	77,023
38	0	0	68	20	62,291
39	1	18,276	69	17	43,034
40	0	0	70	19	56,866
41	0	ō	71	9	30,573
42	0	Ō	72	15	52,091
43	0	Ö	73	10	25,755
44	0	0	74	2	5,478
45	0	õ	75	2	7,745
46	1	15,192	76	2 3 2 2	5,369
47	1	22,056	77	2	
48	2	38,256	78	0	2,343 0
49	3	71,712	79	1	8,924
50	2	45,660	80	1	
51	1	20,592	00		3,666
52	2	29,253			
53	8	66,199			
			Totals:	1,062	4,480,443

District of Columbia Teachers' Retirement Fund

	AGE-BENEF	IT DISTRIBUTION OF F BENEFITS PAYABLE B	RETIREES AND BE		
Age	Count	Annual Benefits	Age	Count	Annual Benefits
Under 24	49	\$235,428	69	197	6,663,586
25	0	0	70	192	6,160,706
26	1	50,784	71	200	6,069,747
27	0	0	72	208	6,597,541
28	0	0	73	192	5,722,341
85.00V					0,722,041
29	0	0	74	146	4,298,346
30	0	0	75	153	4,735,015
31	0	0	76	171	5,082,655
32	3	8,916	77	129	3,734,553
33	0	0	78	124	3,648,120
					-10101120
34	1	43,860	79	116	3,382,792
35	1	37,764	80	140	4,364,526
36	0	0	81	118	3,574,524
37	1	1,476	82	110	3,506,184
38	0	0	83	92	2,874,468
39			10 M		
40	1	0	84	74	2,325,252
40	0	0	85	96	2,987,196
41	4	61,140	86	76	2,344,128
42	2 2	59,832	87	72	2,406,036
43	2	22,740	88	67	2,082,768
44	3	01.040	20		
45	2	21,840	89	50	1,702,944
46	4	35,748	90	59	2,041,308
47	6	60,240	91	43	1,504,404
48	3	43,980 19,080	92	40	1,328,928
10	0	19,000	93	26	794,508
49	4	7,757	94	20	
50	5	66,780	95	30 29	929,136
51	5	61,560	96		1,100,424
52	9	95,523	97	20 8	757,092
53	10	126,629	98	9	314,388
		120,020	50	9	318,828
54	32	551,781	99	8	400.080
55	36	539,931	100 & Over	10	400,980 359,280
56	93	2,430,324		10	339,200
57	94	2,580,861			
58	156	4,484,899			
59	164	5,008,945			
60	176	5,306,594			
61	168	5,365,398			
62	154	4,783,257			
63	153	4,692,966			
64	400				
64	196	6,325,633			
65 66	193	6,151,328			
66 67	195	6,271,991			
68	205	6,727,169			
00	198	6,328,705			
		-	Fotals:	F 004	
				5,334	\$162,723,563

District of Columbia Teachers' Retirement Fund

Age Under 24	Count 109	ICE OFFICERS' BENE Annual Benefits		TAL	
Linder 24	400		Age	Count	Annual Benefits
	109	487,020	69	86	
25	0	0	70		3,079,917
26	õ	0	70	75	2,983,049
27			71	72	2,786,985
28	1	16,176	72	91	3,480,211
20	0	0	73	74	2,737,449
29	0	.0	74	89	3,476,865
30	2	25,728	75	107	4,280,498
31	1	2,964	76	85	3,366,890
32	6	150,300	77	72	2,834,659
33	7	163,872	78	74	2,842,246
34	7	450 404			_,,
35	7	158,484	79	72	2,509,037
	8	165,120	80	56	1,962,764
36	9	193,068	81	53	1,716,317
37	12	249,156	82	38	1,271,724
38	6	136,128	83	46	1,408,084
39	6	100,608	84	FC	1015110
40	15	309,660	85	56	1,845,148
41	10	190,104		46	1,612,495
42	14		86	40	1,202,697
42		300,720	87	40	1,442,848
43	14	212,195	88	37	1,214,010
44	16	335,541	89	21	593,400
45	29	688,645	90	23	855,283
46	37	1,100,305	91	19	
47	51	1,610,693	92	13	647,159
48	72	2,396,272	93	13	384,778 402,656
40	101				402,000
49	104	3,576,930	94	10	393,424
50	135	4,537,730	95	6	138,918
51	192	6,532,338	96	8	196,572
52	210	7,242,321	97	3	84,720
53	223	8,054,190	98	3 3	43,836
54	237	8,352,354	99		
55	313			1	16,476
56	375	10,893,360	100 & Over	3	58,356
57		13,825,757			
	230	8,082,373			
58	235	8,452,678			
59	207	7,475,775			
60	210	7,349,114			
61	166	6,059,347			
62	159	5,857,930			
63	172	6,345,739			
0.4					
64	153	5,361,859			
65	151	5,424,416			
66	119	4,327,257			
67	146	5,202,116			
68	109	4,121,987			
			T		
	and the second		Totals:	5,710	\$197,937,801

	POLICE OFFICE	TT DISTRIBUTION OF R	ETIREES AND BE	NEFICIARIES	
Age	Count	Annual Benefits	Age	Count	Annual Benefits
Under 24	0	0	49	41	110,180
25	0	0	50	47	109,839
26	0	0	51	48	133,720
27	1	16,176	52	48	96,427
28	0	0	53	39	85,467
29	0	0	54	39	87,308
30	1	20,496	55	39	45,272
31	0	0	56	22	34,201
32	5	84,828	57	17	36,995
33	4	34,356	58	11	21,092
34	2	55,068	59	10	27 027
35	5	55,752	60	8	37,837
36	7	77,928	61	2	5,219 5,928
37	6	109,800	62	1	9,078
38	5	72,876	63	2	0
39	3	50,820	64	0	
40	7	86,760	65	0 0	0
41	1	0	66	0	0
42	7	122,256	67	0	0
43	1	37,728	68	0	0
					2012
44	4	50,484			
45	9	40,262	69	1	0
46	21	136,732			-
47	29	76,689			
48	35	173,572			
			Totals:	528	2,121,146

	AGE-BENER	IT DISTRIBUTION OF	RETIREES AND BEN	EFICIARIES	
Age	Count	RE FIGHTERS' BENEFI Annual Benefits	Age	AL Count	Annual Benefits
Under 24	41	142,860	69	49	2,153,945
25	0	0	70	34	
26	0	Ő	71	33	1,378,800
27	0	ŏ	72	41	1,329,824
28	ŏ	õ	73		1,540,478
	U	U	15	53	2,220,820
29	0	0	74	45	2,004,934
30	0	0	75	40	1,780,166
31	1	16,476	76	48	1,989,884
32	0	0	77	29	1,301,525
33	1	26,424	78	41	1,618,581
34	1	15,288	79	25	985,725
35	0	0	80	28	
36	0	Ō	81	37	1,206,977
37	1	16,392	82		1,485,868
38	2	68,388		30	1,038,406
	-	00,000	83	27	1,016,261
39	1	21,912	84	36	1,527,035
40	2	36,024	85	25	1,116,268
41	2	22,993	86	27	
42	3	51,576	87	19	1,013,675
43	4	54,252	88	13	732,794
			00	15	584,581
44	4	77,112	89	10	347,918
45	6	132,394	90	13	397,435
46	8	240,991	91	7	257,746
47	6	170,052	92	10	279,878
48	18	547,654	93	9	350,929
49	26	845,881	94	2	
50	28	983,181	94 95	6	200,002
51	24	865,955		4	79,476
52	30		96	3	54,372
53	30	1,225,688	97	0	0
55	57	1,615,823	98	2	26,232
54	34	1,463,775	99	0	o
55	41	1,577,338	100 & Over	3	57,28
56	73	3,159,304		24822	- ,=0
57	71	2,986,905			
58	68	2,993,633			
59	63	2,811,481			
60	66				
61		2,778,510			
62	88 85	3,462,717			
63	00	3,650,350			
03	93	4,102,301			
64	74	3,114,583			
65	62	2,469,519			
66	53	2,305,542			
67	65	2,602,446			
68	49	1,996,573			
			Totals:	1,978	\$78,730,056

	AGE-BENER	IT DISTRIBUTION OF R S' BENEFITS PAYABLE	ETIREES AND BE		
Age	Count	Annual Benefits	Age	Count	Annual Benefits
Under 24	0	0	49	14	188,146
25	0	0	50	10	55,595
26	0	0	51	10	53,413
27	0	0	52	16	80,086
28	0	0	53	16	86,380
29	0	0	54	9	48,154
30	0	0	55	5	25,168
31	0	0	56	14	72,358
32	0	0	57	8	25,412
33	1	26,424	58	7	33,607
34	1	15,288	59	8	16,792
35	0	0	60	3	12,504
36	0	0	61	1	4,745
37	1	16,392	62	1	5,745
38	0	0	63	2	0
39	0	0	64	1	0
40	0	0			
41	1	17,604			
42	0	0			
43	0	0			
44	2	40,668			
45	2	9,890			
46	6	139,587			
47	5	86,065			
48	6	41,153			
			Totals:	150	1,101,176

District of Columbia Police Officers and Fire Fighters' Retirement Fund

Age Count Annual Benefits Under 24 41 \$142,860 25 0 0 26 0 0 27 0 0 28 0 0 30 0 0 31 1 16,476 32 0 0	REES AND BE	NEFICIARIES	
Under 24 41 \$142,860 25 0 0 26 0 0 27 0 0 28 0 0 29 0 0 30 0 0 31 1 16,476 32 0 0			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Age	Count	Annual Benefits
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	69	49	2,153,945
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	70	34	1,378,800
28 0 0 29 0 0 30 0 0 31 1 16,476 32 0 0	71	33	1,329,824
29 0 0 30 0 0 31 1 16,476 32 0 0	72	41	1,540,478
30 0 0 31 1 16,476 32 0 0	73	53	2,220,820
31 1 16,476 32 0 0	74	45	2,004,934
32 0 0	75	40	1,780,166
	76	48	1,989,884
	77	29	1,301,525
33 1 0	78	41	1,618,581
34 1 0	79	25	095 725
35 0 0	80	28	985,725 1,206,977
36 0 0	81	37	
37 1 0	82	30	1,485,868
38 2 68,388	83	27	1,038,406 1,016,261
39 1 21,912	84		
21,012	85	36	1,527,035
40 2 36,024 41 2 5,389	86	25	1,116,268
42 3 51,576	87	27	1,013,675
43 4 54,252		19	732,794
0,1202	88	13	584,581
44 4 36,444	89	10	347,918
45 6 122,504	90	13	397,435
46 8 101,404	91	7	257,746
47 6 83,987	92	10	279,878
48 18 506,501	93	9	350,929
49 26 657,735	94	6	200,002
50 28 927,586	95	4	79,476
51 24 812,542	96	3	54,372
52 30 1,145,602	97	õ	04,372
53 37 1,529,443	98	2	26,232
54 34 1,415,621	99	0	
	00 & Over	3	67 220
56 73 3,086,946		5	57,228
57 71 2,961,493			
58 68 2,960,026			
59 63 2,794,689			
60 66 2,766,006			
61 89 0.457,030			
62 85 3,457,972			
63 93 4,102,301			
65 62 2,469,519			
66 53 2,305,542			
67 65 2,602,446 68 49 1,996,573			
68 49 1,996,573			
Total	s:	1,978	\$77,628,880

APPENDIX B

ACTUARIAL ASSUMPTIONS AND PROCEDURES



T	able of Contents	Page(s)
	Actuarial Assumptions	
	 Rate of Return on Investment Annual Rate of Increase in Cost of Living Annual Rates of Salary Increase Annual Rates of Withdrawal Annual Rates of Mortality Teachers Police Officers and Fire Fighters Annual Rates of Disablement 	B-2 B-2 B-2, B-3 B-3, B-4 B-4, B-5 B-5, B-6
	7. Annual Rates of Retirement	B-6
	Actuarial Procedures	
	1. Asset Valuation Method	B-7
	2. Funding Method	B-7



Actuarial Assumptions

- 1. Annual Rate of Investment Return: 7.25%
- 2. Annual Increase in Cost-of-Living: 5.00%
- 3. Rates of Salary Increases for Liabilities¹

(% at selected service)			
Service	Teachers	Police ²	Fire ²
0	9.0	10.0	7.5
5	9.0	8.6	7.5
10	8.0	7.6	7.5
15	7.0	7.3	11.0
20	6.0	11.0	10.8
25	5.5	6.1	10.5
30	5.4	5.5	7.5

- ¹ The rates include an annual assumed general wage increase of 5.0%
- ² Additional increases are reflected to account for the Base Retention Differential of 5% after 20 years of service for police officers and Retention incentives of 5%, 10%, and 15% after 15, 20, and 25 years of service, respectively, for fire fighters.

4. Withdrawal

TEACHERS NUMBER OF WITHDRAWALS PER 1,000 MEMBERS AT SELECTED AGES			
Age	Male	Female	
25	210	210	
30	160	160	
35	110	110	
40	68	68	
45	48	48	
50	36	36	
55	0	0	



4. Withdrawal, cont.

	POLICE			
NUMBER OF WITH	NUMBER OF WITHDRAWALS PER 1,000 MEMBERS AT SELECTED AGES			
Age	Male	Female		
25	66	66		
30	42	42		
35	23	23		
40	13	13		
45	10	10		
50	0	0		
55	0	0		

	FIRE			
NUMBER OF WITHE	NUMBER OF WITHDRAWALS PER 1,000 MEMBERS AT SELECTED AGES			
Age	Male	Female		
25	16	16		
30	16	16		
35	16	16		
40	16	16		
45	16	16		
50	0	0		
55	0	0		
40 45 50	15	16 16 16 0 0		

5. Mortality

Teachers

Active Members:

Male:	1994 Uninsured Pension (UP94) Male Table with generational
	improvement set forward 1 year

Female: 1994 Uninsured Pension (UP94) Female Table with generational improvement set forward 1 year

Inactive Healthy Members:

- Male: 1994 Uninsured Pension (UP94) Male Table with generational improvement
- Female: 1994 Uninsured Pension (UP94) Female Table with generational improvement

5. Mortality, cont.

Teachers

Inactive Disabled Members:

NUMBER OF DE	ATHS PER 10,000 MEMBERS A	T SELECTED AGES
Age	Male	Female
25	240	240
30	240	240
35	240	240
40	240	240
45	240	240
50	246	240
55	252	240
60	259	240
65	266	240
70	380	240
75	526	274
80	721	414
85	896	582

Police Officers and Fire Fighters

Active Members:

- Male: 1994 Uninsured Pension (UP94) Male Table with generational improvement set forward 3 years
- Female: 1994 Uninsured Pension (UP94) Female Table with generational improvement set forward 3 years

Inactive Healthy Members:

- Male: 1994 Uninsured Pension (UP94) Male Table with generational improvement set forward 2 years
- Female: 1994 Uninsured Pension (UP94) Female Table with generational improvement set forward 2 years

NUMBER OF DEA	THS PER 10,000 MEMBERS	AT SELECTED AGES
Age	Male	Female
25	90	56
30	90	56
35	90	56
40	90	56
45	90	56
50	90	56
55	90	56
60	130	83
65	190	119
70	264	171
75	389	244
80	650	433
85	979	722

Inactive Disabled Members:

6. Disability

Teachers

NUMBER OF DISABI Age	LEMENTS PER 10,000 MEMBE Male	ERS AT SELECTED AGES Female
25	3	3
30	6	6
35	9	9
40	13	13
45	20	20
50	32	32
55	55	55
60	57	57
65	0	0

Police¹

NUMBER OF DISABL Age	EMENTS PER 10,000 MEMBE Male	ERS AT SELECTED AGES Female
25	26	26
30	34	34
35	51	51
40	75	75
45	118	118
50	195	195
55	341	341
60	500	500
65	500	500

¹ It is assumed that 50% of the disabilities are due to accidents in the line of duty.

		- 1
-	-Ir	Δ'
		C

NUMBER OF DISABL Age	EMENTS PER 10,000 MEMBE Male	ERS AT SELECTED AGES Female
25	26	26
30	34	34
35	51	51
40	75	75
45	118	118
50	195	195
55	341	341
60	500	500
65	500	500

¹ It is assumed that 50% of the disabilities are due to accidents in the line of duty.

7. Retirement

Teachers

NUMBER OF RETIF	REMENTS PER 1,000 MEMBERS	S AT SELECTED AGES
Age	First Year Eligible	Subsequent Years
45		
50	200	
55	200	200
56	400	200
57	600	200
58	600	200
59	600	200
60	200	200
65 ²	200	200
70	200	200

² Between the ages of 65 and 70, teachers are assumed to retire at the rate of 200 per 1,000

NUMBER OF RETIRE	MENTS PER 1,000 MEMBEI	RS AT SELECTED AGES
Age	Police	Fire
45	150	60
50	230	130
55	400	350
56	500	350
57	500	350
58	500	350
59	500	350
60	1,000	1,000
65	1,000	1,000
70	1,000	1,000

Police Officers and Fire Fighters¹

¹ It is assumed that police officers and fire fighters retire after 31 years of service.

8. Changes in Assumptions Since Last Valuation

Due to the 1996 - 2001 Experience Study, the following assumptions were changed:

- Merit/Seniority Salary Increases were increased
- Mortality Rates were decreased
- Disability Rates (teachers only) were decreased
- Withdrawal Rates were increased
- Retirement Rates (teachers only) were leveled after the age first eligible to retire

Actuarial Procedures

1. Asset Valuation Method

For purposes of determining the fiscal year 2004 District payment, an actuarial value of assets is used. The actuarial value of assets is equal to the actuarially expected market value of assets at 9/30/2002 plus 1/3 of the difference between the actuarially expected market value and the actual market value at 9/30/2002.

2. Funding Method

The funding method required by the "Replacement Plan Act" is the aggregate funding method.

APPENDIX C

SUMMARY OF THE PROVISIONS OF THE PROGRAMS

Table of Contents	Page
Teachers' Retirement Program	C-2
Police Officers' and Fire Fighters' Retirement Program	C-6

Summary of Program Provisions: District of Columbia Retirement Program for Teachers

1. Membership

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 plan.

2. Required Member Contributions

Members hired before November 16, 1996 contribute 7% of annual pay minus any pay received for summer school. Members hired on or after November 16, 1996 contribute 8% of annual pay minus pay received for summer school.

3. Voluntary Member Contributions

Members can contribute up to 10% of annual pay toward an annuity in addition to any vested pension.

4. Service

School Service – one year of school service is granted for each year of employment with the D.C. public day schools.

Credited Service - service granted or purchased in addition to school service.

5. Voluntary Retirement

For participants hired before November 16, 1996:

Eligibility – age 62 with 5 years of school service; age 60 with 20 years of total service, including 5 years of school service; age 55 with 30 years of total service, including 5 years of school service.

Benefit – 1.5% of high 3-year average pay times service up to 5 years, plus 1.75% of average pay times service between 5 and 10 years, plus 2% of high 3-year average pay times service over 10 years, with each period subject to a minimum benefit of 1.0% of average pay plus \$25.

For participants hired on or after November 16, 1996:

Eligibility – age 62 with 5 years of school service; age 60 with 20 years of total service, including 5 years of school service; or any age with 30 years of total service, including 5 years of school service.

Benefit – 2.0% of high 3-year average pay times service up to 5 years subject to minimum benefit of 1.0% of 3-year average pay plus \$25.

6. Involuntary Retirement

Eligibility – retired involuntarily for reasons other than misconduct or delinquency with 25 years of total service, including 5 years of school service; or age 50 with 20 years of total service, including 5 years of school service.

Benefit – Voluntary Retirement benefit reduced 1/6% per month (2% per year) that date of retirement is before age 55.

7. Disability Retirement

Eligibility – 5 years of school service and a physical or mental disability that prevents the member from performing his/her job.

Benefit – Voluntary Retirement benefit subject to a minimum of the lesser of 40% of average pay and the benefit that the member would receive projecting service to age 60.

8. Deferred Vested Retirement

Eligibility – 5 years of school service.

Benefit – Voluntary Retirement benefit beginning at age 62.

9. Lump Sum Death Benefit

Eligibility – death before completion of 18 months of school service or death without an eligible spouse, child, or parent.

Benefit - Refund of paid contributions.



10. Installment Benefits Payable upon Death

Spouse Only

Eligibility – death before retirement and married for at least two years or have a child by the marriage.

Benefit – 55% of the Voluntary Retirement benefit subject to the minimums specified in the Disability Retirement Benefit.

Spouse and Dependent Children

Eligibility – for the spouse, as described above; for the children, unmarried and under 18, 22 if full-time student, or any child dependent because of a disability incurred before age 18. Death does not have to occur before retirement for the children's benefits.

Benefit – spouse benefit as described above plus a benefit per child of the smallest of 60% of average pay divided by the number of children, \$5,076 (if hired before January 1, 1980) or \$4,896, and \$15,228 (if hired before January 1, 1980) or \$14,688 divided by the number of children; payable until the children are no longer eligible.

Dependent Children Only

Eligibility – same as the children's benefit above.

Benefit – per child, the smallest of 75% of average pay divided by the number of eligible children, \$6,180 (if hired before January 1, 1980) or \$5,952, and \$18,450 (if hired before January 1, 1980) or \$17,856 divided by the number of children payable until the children are no longer eligible.

Surviving Parents Only

Eligibility – death before retirement and no eligible spouse or children, and parents receive at least one-half of their total income from member.

Benefit - spouse benefit as described above.

11. Cost-of-Living Adjustments

All participants receive an increase each March based on the annual change in the Consumer Price Index (all items – U.S. City average) from December to December. The annual increase is capped at 3% for members hired on or after November 10, 1996.

12. Form of Payment Options

Normal Form of Payment – Single Life Annuity

Joint and 55% Survivor (to spouse) – The original benefit is reduced by 2.5% of annual pension up to \$3,600, plus 10% of any amount over \$3,600.

Variable Survivor to a person with an "insurable interest" – A joint and 55% survivor annuity with the original benefit reduced 10% plus an additional 5% for each full 5 years, up to 25 years, the survivor is younger, with a total reduction of 40% for any survivor who is 25 or more years younger.

Insurance Option – benefits may be reduced and the balance used to purchase life insurance.

13. Benefit Changes Since Prior Valuation

None.



Summary of Program Provisions: Retirement Program for District of Columbia Police Officers and Fire Fighters

1. Membership

All police officers and fire fighters of the District of Columbia automatically become members on their date of employment. Police Cadets are not eligible.

2. Required Member Contributions

Members hired before November 10, 1996 contribute 7% of annual salary, including any differential for special assignment, but excluding overtime, longevity, holiday, or military pay. Members hired on or after November 10, 1996 contribute 8% of annual salary, including any differential for special assignment, but excluding overtime, holiday, or military pay.

3. Average Pay

For those hired before February 15, 1980, basic pay for the highest 12 months. For those hired on or after February 15, 1980, basic pay for the highest 36 months divided by three.

4. Longevity Pay (Police Only)

Members who complete 25 years of active service prior to retirement are entitled to an additional 15% of their basic compensation. Members who complete 30 years of active service are entitled to an additional 20% of their basic pay.

5. Service

Departmental Service – each full year and additional months of employment with either the Metropolitan Police Force or the D.C. Fire Department.

Credited Service – service granted or purchased in addition to departmental service.

6. Normal Retirement Benefit

For participants hired before November 10, 1996:

Eligibility - Age 50 with 25 years of departmental service (20 years of service and no age requirement if hired before February 15, 1980).

Benefit – 2.5% of average pay times departmental service up to 25 years (20 years if hired before February 15, 1980) plus 3% of average pay times departmental service over 25 (or 20) years plus 2.5% of average pay times credited service, subject to a maximum benefit of 80% of pay.

For participants hired on or after November 10, 1996:

Eligibility - Age 60 or 25 years of departmental service and no age requirement.

Benefit - 2.5% of average pay times total service subject to a maximum benefit of 80% of pay.

7. Disability Retirement

Service-related

Eligibility – disabled as a result of an illness or injury in the line of duty.

Benefit for those hired before February 15, 1980 – 2.5% of average pay times total years of service, subject to a minimum benefit of 66-2/3% of average pay and subject to a maximum benefit of 70% of average pay.

Benefit for those hired on or after February 15, 1980 – 70% of final pay times percentage of disability, subject to a minimum benefit of 40% of final pay.

Non-service-related

Eligibility - 5 years of departmental service and a physical or mental disability that prevents the member from performing his/her job.

Benefit for those hired before February 15, 1980 – 2% of average pay times total years of service, subject to a minimum benefit of 40% of average pay and subject to a maximum benefit of 70% of average pay.

Benefit for those hired on or after February 15, 1980 – 70% of final pay times percentage of disability, subject to a minimum benefit of 30% of final pay.



8. Deferred Vested Retirement

Eligibility – 5 years of departmental service.

Benefit – Normal Retirement benefit beginning at age 55.

9. Lump Sum Death Benefit

Eligibility – 5 years of duty not resulting from willful misconduct, an intention to bring about his/her own death, or drunkenness.

Benefit – \$50,000. Additional amounts will be paid by the Federal government (outside of the retirement fund).

10. Installment Benefits Payable upon Death

Spouse; member not killed in line of duty

Eligibility – death and married for at least two years or have a child by the marriage.

Benefit – 40% of the greater of average pay and the salary for step 6 salary class 1 of the D.C. Police and Fireman's Salary Act in effect, adjusted for cost-of-living increases if death occurs after retirement.

Spouse; member killed in line of duty

Eligibility – death (killed in line of duty) and married for at least two years or have a child by the marriage.

Benefit – 100% of the greater of average pay and the salary for step 6 salary class 1 of D.C. Police and Fireman's Salary Act in effect, adjusted for cost-of-living increases if death occurs after retirement.

Dependent Children; with surviving spouse

Eligibility – for the spouse, as described above; for the children, unmarried and under 18, 22 if full-time student, or any child dependent because of a disability incurred before age 18.

Benefit – spouse benefit as described above plus a benefit per child of the smallest of 60% of average pay divided by the number of children, \$2,918, and \$8,754 divided by the number of children; payable until the children are no longer eligible.

Dependent Children Only

Eligibility – same as the children's benefit above.

Benefit – per child, 75% of average pay divided by the number of eligible children.

Refund of Contributions

If no eligible dependent exists, all contributions will be refunded to a satutarily named beneficiary.

11. Cost-of-Living Adjustments

Employees (not beneficiaries) who retired prior to February 15, 1980, receive the same percentage increase as active employees' salary increases.

All other retired participants receive an increase each March based on the annual change in the consumer Price Index (All Urban Consumers) from December to December. The annual increase is capped at 3% for members hired on or after November 10, 1996.

12. Form of Payment Options

Normal Form of Payment - Single Life Annuity.

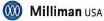
Additional Survivor Benefit – The original benefit is reduced 10%. This 10% amount is reduced by 5% for each full 5 years the survivor is younger (but not more than 40%) and is added to the survivor's benefit.

13. Benefit Changes Since Prior Valuation

None.

APPENDIX D

AUDITOR'S INFORMATION



		District of C	olumbia Retiren	nent Board			
Required Supplementary Information Pursuant to GASB Statement #25							
		Schedul	e of Funding Pr	ogress			
Actuarial	Actuarial	Actuarial	Unfunded	Funded	Covered	UAAL as of	
Valuation	Value of	Accrued	AAL	Ratio	Payroll	Percentage	
Date	Assets	Liability	(UAAL)			of Covered	
		(AAL)	,, ,			Payroll	
	(a)	(b)	(b-a)	(b/a)	(c)	[(b-a)/(c)]	
The District of Columbia Retirement Board uses the aggregate actuarial cost method and is therefore not required to disclose a schedule of funding progress.							

District of Columbia Retirement Board Required Supplementary Information Pursuant to GASB Statement #25 Schedule of Employer Contributions									
				(\$	Millions)				
	Т	eacher's F Fur	Retirement nd		Police Offic Firefighter's I Fun	Retirement		Total F	Fund
Year Ended September 30	Re	Annual equired htribution	Percentage Contributed		Annual Required ontribution	Percentage Contributed	R	Annual equired ntribution	Percentage Contributed
1998	\$	9.6	100 %	\$	47.7	100 %	\$	57.3	100 %
1999	\$	12.8	145 %	\$	35.1	100 %	\$	47.9	112 %
2000	\$	10.7	100 %	\$	39.9	100 %	\$	50.6	100 %
2001	\$	6.6	100 %	\$	47.0	100 %	\$	53.6	100 %
2002	\$	1.0	100 %	\$	61.4	100 %	\$	62.4	100 %

District of Columbia Retirement Board							
Required Supplementary Information Pursuant to GASB Statement #25							
Additional Information							
Police Officer Teacher's and Fire Fighte Retirement Fund Retirement Fu							
Valuation Date:	October 1, 2002	October 1, 2002					
Actuarial Cost Method:	Aggregate	Aggregate					
Amortization Method:	N/A	N/A					
Remaining Amortization Period:	N/A	N/A					
Asset Valuation Method: Actuarial Assumptions:	Market Value	Market Value					
Investment Rate of Return: Projected Salary Increases: includes inflation at Cost of Living Adjustments:	7.25% 5.4%-9.0% 5.0% 5.0% ¹	7.25% 5.5%-10.0% 5.0% 5.0% ¹					

Post-1996 hires have COLAs capped at 3.00%

Please refer to the actuarial valuation report for more details on the assumptions.

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