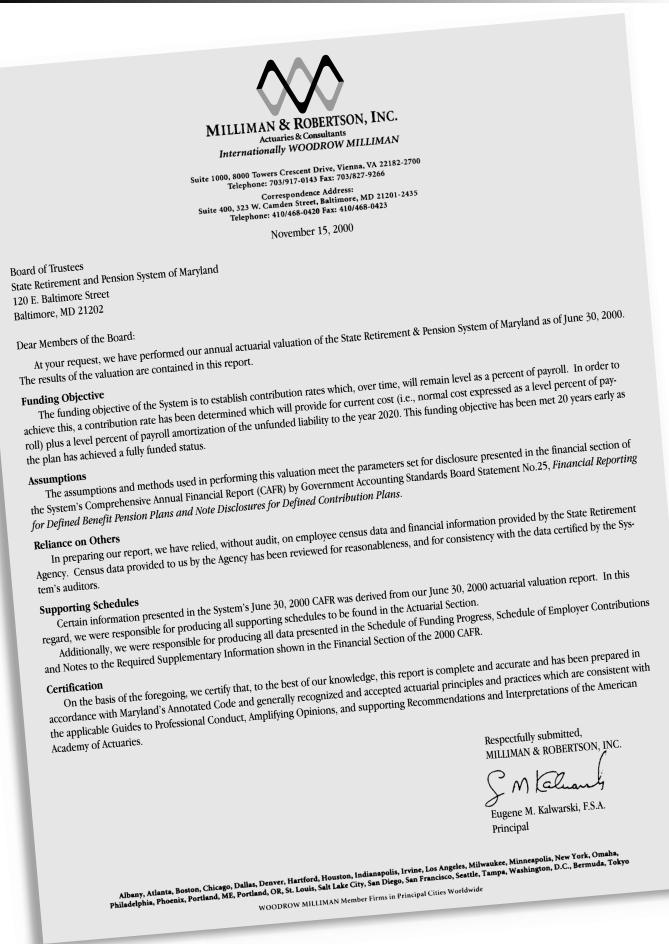
A \$5 Billion Program with date remote

Having instituted a reform of the state's giant Having instituted a reform of the state's giant pension system in 1979, how is it that the state now staring at a new pension crists? It has to do with Signific bloopers by the state's urmer actuaries and the continued penerodity of Is having at a with gigantic bloopers by the state's of It has to do with gigantic bloopers by the state's Re-former actuaries and the continued generosity of logmaters for state workers and teachers. is staring at a new pension crisis? former actuaries and the continued generosity lawmakers for state workers and teachers, number of the encourse the bettern time is shift lawmakers for state workers and teachers. Re-gardless of the reasons, the bottom line is chilling: Maryland's unfunded liabilities increased by \$500 gardless of the reasons, the bottom line is chilling. Maryland's unfunded liabilities increased by \$500 million in the last fiscal year to \$5 billion For Maryland's unfunded liabilities increased by \$500 million in Hughes, this means finding another \$103 Governor Hughes, this means finding another million to keep the pension system alloat Illion to keep the pension system afloat. The in-the size of the problem is enormous enormality rease in the state's pension data last user enormality overnor nugues, and means many anoth million to keep the pension system aftoat. The size of the problem is enormous The size of the problem is enormous. The lin-crease in the state's pension debt last year equals half the cost of the Baltimore subway the overall crease in the state's Pension debt last year equals ball the cost of the Baltimore subway; the overall pension debt exceeds what the state spends in an ball the cost of the Baltimore subway; the overall pension debt exceeds what the state spends in an entire year. Governor Humbes estimates that a pension debt exceeds what the state spends in an 20 entire year. Governor Hughes estimates unit on the state spends in an an antire year and an an anti-state and state and stat entire year. Governor Hughes estimates that 20 cents out of every general-fund dollar will go So-wards employee benefits such as pension and leader cial Security contributions. House minority leader Wards employee benefits such as Pension and So-cial Security contributions. House minority leader Robert Neall rule it another wait Out of every doi: clai Security contributions. House minority leader Robert Neall puts it another way: the state minority lar raised through the income tax the state min Robert Neall puts it another way: Out of every only lar raised through the income tax, the state will out 56 cents into these state-worker and teacher lar raised through the income tax, the state will put 56 cents into these state-worker and teacher programme and including entering put 56 cents into these state-worker and teacher programs—not including salaries. Back in 1979, after years of study and heated debate, the legislature passed a pension-reform Back in 1979, after years of study and beated debate, the legislature passed a pension-reform law that set up a dual system: Present employees could remain in the old program, with its generous law that set up a dual system: Present employees could remain in the old program, with its generous benefits (including an uncanned cost of living es could remain in the old program, with its generous benefits (including an uncapped cost-of-living new calator clause), or they could transfer to the new 1-9-83

Pension program with its reduced benefits but re-Pension program with its reduced benefits but re-quiring a much smaller contribution from the worker. All new state employees and teachers must enter the new pension program. But the state's actuaries made several big mis-But the state's actuaries made several big misast enter the new pension program. But the state's actuaries made several big mis-But the state's actuaries most state workers They more protone or change into that But the state's actual work most state workers calculations. They thought nost state jobs. That would join the new system or change projected per-would join the new The actuaries projected per-bas not happened. The actor would average 5 per loss of living inflation factor would average of re-cost of living inflation factor would average on the cost of living is about balf the actual figure on the cost of living initiation factor would average 5 per-cent, which is about half the actual figure of re-cent, years. Worse, the actuaries then commuted cent, which is about half the actual figure of re-cent years. Worse, the actuaries on the basis of the state's future pension liabilities on the basis cent years. Worse, the actuaries then computed the state's future pension liabilities on the basis of this 5 percent inflation factor—but failed to comthe state's future pension liabilities on the basis of this 5 percent inflation factor—but failed to com-nute the commound interest That mistake alone this 5 percent inflation factor—but failed to com-pute the compound interest. That mistake alone has added \$1.5 billion to the state's panetion debt pute the compound interest. That mistake alon bas added \$1.5 billion to the state's pension debt. Consta Deposident Making Claimburg has refer 8 added \$1.5 billion to the state's pension debt. Senate President Melvin Steinberg has referred the old remains program (the only state retire) Senate President Melvin Steinberg bas referred to the old pension program (the only state refired ment system in the nation without a can on its to the old pension program (the only state retire-ment system in the nation without a cap on its inflation clause) as a "Rolls Royce." to say, but it have been a politically savy thing to say. inflation clause) as a "Rolls Royce." That may not have been a politically savvy thing to say, but it strikes close to the truth. Governor Hughes says wants a commission to take a year and find some wants a commission to take a year and find some strikes close to the truth. Governor Hughes says he wants a commission to take a year and find some answers. But delay will be very very costly and wants a commission to take a year and find some answers. But delay will be very, very costly—and unnecessary. The legislature has been studying the pension crisis for almost eight years now. The unnecessary. The legislature has been studying the al-pension crisis for almost eight years now. If study ternstives are clear. All a year's worth of study pension crisis for almost eight years now. The al-benatives are clear. All a year's worth of study will do is postpone the day of reckoning— balf a the state's pension debts grow by another balf billion dollars. billion dollars.

Employees' Retirement & Pension Systems

he Employees' Retirement System (established in 1941) and the Employees' Pension System (established in 1980) combined account for more than half of all State Retirement and Pension System members. Active membership in the combined employees' systems at the end of 2000 exceeded 85,000 participants. Membership includes all regular employees of the State of Maryland. Over 120 local governmental units have voluntarily joined the system to provide survivor, disability and retirement benefits for their employees. The governor, members of the General Assembly, and state correctional officers are also included as members of the combined employees' systems.



BOARD SUMMARY

Valuation Comments

- his report presents the results of the June 30, 2000 actuarial valuation of the State Retirement and Pension System of Maryland (SRPS). The primary purposes for performing the valuation are as follows:
- to determine the contributions to be paid by the State in Fiscal Year 2002
- to disclose asset and liability measures as of June 30, 2000
- to analyze and report on trends in System contributions, assets, and liabilities over the past several years.

The experience of the SRPS during the fiscal year ending June 30, 2000 was better than expected, both with respect to investments and liabilities. As a result, the State's cost, expressed as a percentage of payroll, decreased by 133 basis points (1.33%) compared to the prior fiscal year's cost. At the start of the millennium, the System's financial position is at an all time high. Unfunded liabilities have been extinguished, the System's funding ratio is at 101% and the State's contribution rate is lower than it has been for over 20 years. This rate excludes the \$8.6 million to be paid by the University of Maryland to fund early retirement window benefits.

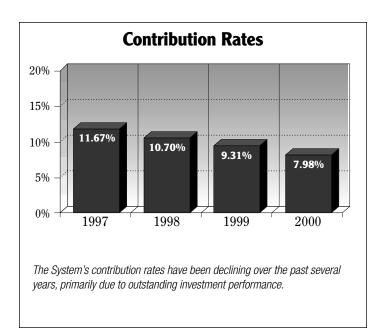
Looking at each of the components, System assets increased by \$1,232 million more than expected and the liability growth was \$169 million less than expected. Offsetting the actuarial gain on liabilities were plan improvements which increased the total liability by \$71 million. The net effect of assets gains, liability gains, and plan changes is a net actuarial gain of \$1,330 million.

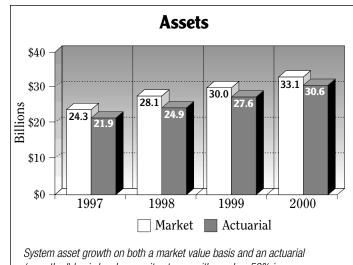
Looking forward, the key to maintaining the System's financial condition will be investment performance.

The balance of this section presents summarized information regarding System trends, details on the 1999/2000 experience, and summary tables presenting results for each of the separate Systems.

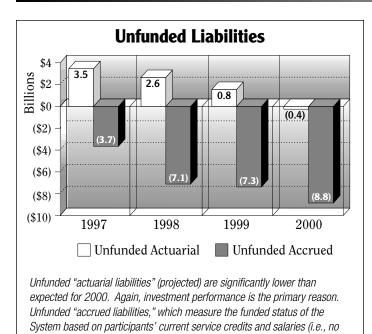
System Trends

The major findings of the 2000 valuation are summarized and compared in the following charts:





(smoothed) basis has been quite strong, with nearly a 50% increase over this short period.



Experience 1999–2000

projections), have been negative since 1996.

Below we examine the specific factors which contributed to the change in the System's assets, liabilities, and contribution rates between June 30, 1999 and June 30, 2000.

Assets

Between June 30, 1999 and June 30, 2000, assets of the System (measured on an actuarial smoothed basis) increased by \$3,003 million. This change is analyzed below:

(In Millions)		Actuarial Value
June 30, 1999 actuarial value of assets		\$27,646
Changes in Assets		
• Employer and Member Contributions	\$ 865	
 Benefits and Expenses 	(1,289)	
 Expected Investment Return 	2,195	
 Investment Gain/(Loss) 	1,232	
Total Changes	\$3,003	
June 30, 2000 actuarial value of assets		\$30,649

The expected investment return shown above is based on an 8.0% assumption. The actual return was 11.92%. The actuarial value of assets is based on a smoothing method to dampen fluctuations caused by market forces. Each year the actuarial value of assets will recognize only one-third of the return greater or less than the 8.0% assumption. The \$1,232 million investment gain reflects the amount being recognized by this year's actuarial value.

Liabilities

200

167

107

1997

important investment considerations.

spuesnot 100 Thousands

50

0

Two different measurements of liabilities are calculated at each valuation.

Membership

171

1998

Active membership has grown about 2.5% per year for the period shown.

year over the four-year period. As this trend increases, System cashflows

(contributions less payouts) will increasingly become negative, leading to

Inactive membership (retirees and vested terminations) has grown 4.5% per

Active

175

117

1999

Retired & Inactive

180

2000

- Actuarial Liabilities are used for determining contribution levels and include projections of future service and payroll. These liabilities are also suitable for disclosure under Government Accounting Standards Board Statements Number 25 & 27.
- Liability for Accrued Benefits is used for informational purposes and is based on service and payroll as of June 30, 2000.

Between June 30, 1999 and June 30, 2000 these liabilities changed as follows:

(In Millions)	June	e 30,	
	2000	1999	Change
Actuarial Liability	\$30,280	\$28,475	\$1,805
Liability for Accrued Benefits	\$24,283	\$22,690	\$1,593

The growth in actuarial liabilities, \$1,805 million, includes an increase of \$71 million due to benefit improvements but still was \$169 million less than expected (liability gains). This gain was attributable to a number of factors, including cost of living adjustments and payroll growth less than assumed during the prior year.

Unfunded Liabilities

The net changes in System unfunded liabilities between June 30, 1999 and June 30, 2000 are summarized below:

(In Millions)	June	e 30,	
	2000	1999	Change
Actuarial Liability	\$30,280	\$28,475	\$ 1,805
Less the Actuarial Value of Assets	30,649	27,646	3,003
Unfunded Actuarial Liability	\$ (369)	\$829	\$ (1,198)

Between June 30, 1999 and June 30, 2000, unfunded actuarial liabilities were expected to increase to \$1,032 million, or an increase of \$203 million. The difference between the actual decrease of \$1,198 million and the expected increase represents a \$1,401 million net actuarial gain. The components of this gain are summarized as follows:

Liability gain/(loss)	\$ 169
Investment gain/(loss)	1,232
Net Actuarial gain/(loss)	\$ 1,401

Now that the System has achieved "full funding," the future fluctuations in investment returns (above and below the assumed) will most likely result in corresponding future patterns of unfunded liability and surplus disclosures.

Contributions

The State's contribution rate decreased by 1.33% of pay, to 7.98% as of June 30, 2000 from 9.31% on June 30, 1999. This change can be analyzed as follows:

June 30, 1999 State rate	9.31%
Increases Plan Changes 	0.13
Decreases • Investment gain • Liability gain	(1.29) (0.17)
June 30, 2000 State rate	7.98%

Membership

The total membership (both active and inactive) of the System increased to 302,873 as of June 30, 2000 from 291,817 as of June 30, 1999, an increase of 3.8%. The total annual payroll of active members increased by 6.4% to \$6.80 billion as of June 30, 2000 from \$6.39 billion as of June 30, 1999.

Actuarial Procedures and Assumptions

Asset Valuation Method

The market value representing the value for which assets could be sold on a particular day, is not necessarily an appropriate value for the purpose of setting the contribution rates for the System. This is because funding will take place over a long period into the future during which time market values can be expected to fluctuate widely. If market values were used to develop contribution rates, the resulting contributions would also vary widely.

In order to produce a stable pattern of contribution rates, market values are adjusted so that some of the volatility is removed. This adjusted value of assets is called actuarial value. For purposes of this valuation, actuarial value is determined by using a simplified three-year moving average. Under this method (adopted July 1, 1992), the actuarial value of the assets is onethird of the market value plus two-thirds of the expected value, where the expected value is last year's actuarial value and subsequent cash flows into and out of the fund accumulated with interest at the actuarial assumed rate of return on investments.

For the Employees' Retirement and Pension System, total assets must be allocated between State and the Participating Governmental Unit pool. Beginning July 1, 1984, this allocation is based upon actual aggregate cash flows and shared investment results.

Funding Method

The System uses the aggregate entry age normal method with projection to determine costs. Under this funding method (adopted July 1, 1984), a total contribution rate is determined which consists of two elements, the normal cost rate and the unfunded actuarial liability rate (UAL).

For the Teachers' Pension, Employees' Pension, State Police, Judges', Law Enforcement Officers' Pension, and Local Fire and Police Systems an individual entry age normal cost rate is determined for a typical new entrant of each respective system. This rate is determined by taking the value, as of age at entry into the plan, of the member's projected future benefits, and dividing it by the value, also as of the member's entry age, of their expected future salary.

For members of the Teachers' and Employees' Retirement Systems, the new entrant normal cost rate is set at the same rate developed for the Teachers' and Employees' Pension Systems, respectively.

In addition to contributions required to meet the System's normal cost, contributions will be required to fund the System's unfunded actuarial liability. Actuarial liability is defined as the present value of future benefits less the present value of future normal costs. The unfunded actuarial liability is the total of the actuarial liability for all members less the actuarial value of the System's assets.

If the System's unfunded actuarial liability is increased by actuarial losses or decreased by actuarial gains, these amounts will be included as part of the unfunded actuarial liability and funded over the remaining amortization period.

Retirement Benefits

Effective July 1, 1980, in accordance with the law governing the System, all benefits of the System are funded in advance. Employer contribution rates for retirement benefits are determined using the entry age normal cost method. This method produces an employer contribution rate consisting of (1) an amount for normal cost (the estimated amount necessary to finance benefits earned by employees during the current service year), and (2) the amount for amortization of the unfunded actuarial accrued liability. The unfunded actuarial accrued liability is being amortized over 40 years (as provided by law) and the liquidation period for the unfunded actuarial accrued liabilities is 20 years from June 30, 2000.

Actuarial Assumptions

The assumptions used for the actuarial valuation were recommended by the System's independent actuary, based upon periodic analysis of the System's experience, and adopted by the Board of Trustees. Differences between assumed and actual experience (i.e., actuarial gains and losses) are part of the unfunded actuarial liability. The following significant assumptions were used in the actuarial valuation as of June 30, 1999:

- a rate of return on investments of 8 percent compounded annually (adopted June 30, 1998);
- projected salary increases of 5 percent compounded annually, attributable to inflation (adopted June 30, 1988);
- additional projected salary increases ranging from 0.94 percent to 6.82 percent per year attributable to seniority and merit (adopted June 30, 1988);
- post retirement benefit increases ranging from 3 percent to 6 percent per year depending on the system (adopted June 30, 1982);
- rates of mortality, termination of service, disablement, and retirement based on actual experience during the period from 1981 through 1996 (adopted June 30, 1998); and
- the aggregate active member payroll is assumed to increase by 5 percent annually (adopted June 30, 1988).

Accounting Statement Information The Total Systems of the State of Maryland

	2000	1999
A. FASB #35 basis		
 Present value of benefits accrued to date: a. Members currently receiving payments 	\$ 14,077,502,697	\$ 13,801,277,851
b. Former vested members c. Active members	559,162,255 9,646,684,674	502,501,648 9,106,006,020
2. Total present value of accrued benefits $(1 (a) + 1 (b) + 1 (c))$	24,283,349,626	22,689,785,519
3. Assets at market value	33,110,690,456	29,985,548,981
4. Unfunded value of accrued benefits (2-3)	\$ (8,827,340,830)	\$ (7,295,763,462)
5. Ratio of assets to value of benefits $(3/2)$	136.35%	132.15%
B. GASB #25 basis		
1. Actuarial accrued liabilities for retirees and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$ 14,636,664,952	\$ 13,583,779,499
2. Actuarial accrued liabilities for current employees	15,643,201,778	14,891,600,547
3. Total actuarial accrued liabililty (1+2)	30,,279,866,730	28,475,380,046
4. Net actuarial assets available for benefits	30,649,380,445	27,646,578,997
5. Unfunded actuarial accrued liability (3-4)	\$ <u>(369,513,715</u>)	\$ 828,801,049

Summary of Unfunded Actuarial

	Actuarial Liabilities For					
Valuation Date June 30,	Active Member Contributions	Retirees, Term Vested and Inactives	Active Members Employer Fin. Portion	Total Liabilities	Actuarial Value of Assets	
1991	\$ 1,449,116,538	\$ 7,856,742,579	\$ 10,462,025,943	\$ 19,767,885,060	\$ 13,400,925,815	
1992	1,521,360,035	8,367,721,533	10,113,691,911	20,002,773,479	14,381,367,328	
1993	1,522,095,569	9,214,710,929	10,438,449,084	21,175,255,582	15,684,924,051	
1994	1,466,974,205	9,994,023,038	10,414,465,996	21,875,463,239	16,272,576,616	
1995	1,503,414,664	10,622,091,333	10,967,030,922	23,092,536,919	17,666,581,953	
1996	1,538,891,321	11,552,405,340	11,149,586,097	24,240,882,758	19,455,279,738	
1997	1,502,991,713	12,714,514,210	11,165,702,737	25,383,208,660	21,920,695,723	
1998	1,505,629,954	12,866,065,299	13,045,239,668	27,416,934,921	24,850,355,227	
1999	1,580,530,209	13,583,779,499	13,311,070,338	28,475,380,046	27,646,578,997	
2000	1,662,397,147	14,636,664,952	13,980,804,631	30,279,866,730	30,649,380,445	

Summary of Retirees and Beneficiaries Added to and Removed from Rolls

Fiscal	al Added to Rolls		Added to Rolls Removed from Rolls Rolls-End of Year		ed to Rolls Removed from Rolls		End of Year	% Increase	Average
Year Ended	Number	Annual Annual Annual Annual er Allowance Number Allowances Number Allowance		Annual Allowances	in Annual Allowances	Annual Allowance			
1992	3,956	\$49,394,903	1,727	\$18,523,007	55,843	\$645,581,071	9.36%	\$11,561	
1993	5,207	58,378,258	1,732	8,440,324	59,318	711,531,666	10.22	11,995	
1994	4,505	44,993,432	1,933	9,358,981	61,890	772,412,629	8.56	12,480	
1995	4,839	43,915,820	2,143	10,702,372	64,594	827,273,808	7.10	12,807	
1996	4,784	47,649,016	2,316	11,930,488	67,062	901,855,498	9.02	13,448	
1997	7,157	119,374,380	2,731	33,641,211	71,488	987,588,667	9.51	13,815	
1998	5,217	90,497,436	2,366	30,768,198	74,339	1,047,317,905	6.05	14,088	
1999	5,514	93,034,053	2,375	30,628,858	77,478	1,109,723,100	5.96	14,323	
2000	5,758	115,003,079	2,463	31,450,868	80,773	1,211,400,269	7.41	14,998	

Liabilities / Solvency Test

Ratio of	Assets to Actuar	ial Liabilities				
 Active Member Contributions	Retirees Term Vested and Inactives	Active Members Employer Fin. Portion	Funded Ratio (Assets/Liab. Coverage)	Unfunded Actuarial Liability (UAL)	Annualized Payroll (Active Members)	UAL as % of Payroll
100 %	100 %	39.14 %	67.79 %	\$ 6,366,959,245	\$ 5,093,707,708	125 %
100	100	44.42	71.90	5,621,406,151	5,023,780,800	112
100	100	47.40	74.07	5,490,331,531	5,064,529,252	108
100	100	46.20	74.39	5,602,886,623	5,246,249,283	107
100	100	50.52	76.50	5,425,954,966	5,532,149,777	98
100	100	57.08	80.26	4,785,603,020	5,640,833,581	85
100	100	68.99	86.36	3,462,512,937	5,657,384,942	61
100	100	80.33	90.64	2,566,579,694	6,148,300,166	42
100	100	93.77	97.09	828,801,049	6,388,973,031	13
100	100	102.64	101.22	(369,513,715)	6,796,240,322	(5)

Statement of Changes in Total Actuarial Present Value of All Accrued Benefits

(Expressed in Millions)

	Accumulated Benefit Obligation (FASB 35)	
Actuarial present value of accrued benefits at June 30, 1999	\$ 22,690	
Increase (decrease) during year attributable to:		
Passage of Time	1,765	
Benefits Paid – FY 2000	(1,289)	
Benefits Accrued, Other Gains/Losses	940	
Plan Amendment & Changes in Actuarial Assumptions	177	
Net Increase	1,593	
Actuarial present value of accrued benefits at June 30, 2000	\$ 24,283	

Report of the Actuary on the Valuation of the State Retirement and Pension System of Maryland as of June 30, 2000

Summary of Principal Results

	June 30, 2000	June 30, 1999	% Change
1. Participant Data			
Number of:			
Active Members	179,586	174,674	2.81~%
Retired Members and Beneficiaries	80,773	77,478	4.25
Vested Deferred Members	28,307	25,649	10.36
Inactive Status Members*	14,207	14,016	1.36
Total Participants	302,873		3.79
Annual Salaries of Active Members Annual Retirement Allowances for	\$ 6,796,240,322	\$ 6,388,973,031	6.37
Retired Members and Beneficiaries	\$ 1,211,400,269	\$ 1,127,848,058	7.41
2. Assets and Liabilities			
Total Actuarial Liability	\$ 30,279,866,730	\$ 28,475,380,046	6.34
Assets for Valuation Purposes	30,649,380,445	27,646,578,997	10.86
Unfunded Actuarial Liability	(369,513,715)	828,801,049	(144.58)
FASB Accrued Liability	24,283,349,626	22,689,785,519	7.02
Market Value of Assets	33,110,690,456	29,985,548,981	10.42
Unfunded FASB Accrued Liability (Surplus)	(8,827,340,830)	(7,295,763,462)	(20.99)

Report of the Actuary on the Twenty-first Annual Valuation of the Teachers' Combined System of the State of Maryland as of June 30, 2000

Summary of Principal Results

	June 30, 2000	June 30, 1999	% Change
1. Participant Data			
Number of:			
Active Members	90,928	88,621	2.60~%
Retired Members and Beneficiaries	38,145	36,057	5.79
Vested Deferred Members	10,614	9,815	8.14
Inactive Status Members*	6,103	5,395	13.12
Total Participants	145,790	139,888	4.22
Annual Salaries of Active Members Annual Retirement Allowances for	\$ 3,753,095,749	\$ 3,576,866,970	4.93
Retired Members and Beneficiaries	\$ 744,128,619	\$ 684,851,048	8.66
2. Assets and Liabilities			
Total Actuarial Liability	\$18,994,293,580	\$18,036,250,862	5.31
Assets for Valuation Purposes	18,419,538,878	16,634,932,328	10.73
Unfunded Actuarial Liability	574,754,702	1,401,318,534	(53.98)
FASB Accrued Liability	15,318,391,567	14,447,633,894	6.09
Market Value of Assets	19,850,431,279	18,001,316,057	10.27
Unfunded FASB Accrued Liability (Surplus)	(4,532,039,712)	(3,553,682,163)	(27.53)

Report of the Actuary on the Twenty-first Annual Valuation of the Employees' Combined System of the State of Maryland as of June 30, 2000

Summary of Principal Results

	June 30, 2000	June 30, 1999	% Change
1. Participant Data			
Number of:			
Active Members	85,425	83,083	2.82 %
Retired Members and Beneficiaries	40,730	39,667	2.68
Vested Deferred Members	17,655	15,791	11.80
Inactive Status Members*	8,051	8,574	(6.10)
Total Participants	151,861	147,115	3.23
Annual Salaries of Active Members	\$ 2,870,990,482	\$ 2,659,022,315	7.97
Annual Retirement Allowances for	¢ 100 001 010		5.00
Retired Members and Beneficiaries	\$ 406,284,042	\$ 385,854,720	5.29
2. Assets and Liabilities			
Total Actuarial Liability	\$ 9,907,682,550	\$ 9,203,217,564	7.65
Assets for Valuation Purposes	10,593,916,557	9,557,555,740	10.84
Unfunded Actuarial Liability	(686,234,007)	(354,338,176)	(93.67)
FASB Accrued Liability	7,761,666,177	7,207,257,842	7.69
Market Value of Assets	11,474,915,353	10,393,769,468	10.40
Unfunded FASB Accrued Liability (Surplus)	(3,713,249,176)	(3,186,511,626)	(16.53)

Report of the Actuary on the Twenty-first Annual Valuation of the Pension Plan of Judges and Their Surviving Spouses as of June 30, 2000

Summary of Principal Results

	June 30, 2000	June 30, 1999	% Change
1. Participant Data			
Number of:			
Active Members	283	283	0.00 %
Retired Members and Beneficiaries	285	284	0.35
Vested Deferred Members	13	13	0.00
Inactive Status Members*	0	0	0.00
Total Participants	581	580	0.17
Annual Salaries of Active Members Annual Retirement Allowances for	\$ 30,891,317	\$ 30,307,258	1.93
Retired Members and Beneficiaries	\$ 14,922,496	\$ 14,566,980	2.44
2. Assets and Liabilities			
Total Actuarial Liability	\$ 236,446,486	\$ 231,393,797	2.18
Assets for Valuation Purposes	216,374,434	192,909,464	12.16
Unfunded Actuarial Liability	20,072,052	38,484,333	(47.84)
FASB Accrued Liability	213,064,248	205,677,840	3.59
Market Value of Assets	230,283,168	205,198,789	12.22
Unfunded FASB Accrued Liability (Surplus)	(17,218,920)	479,051	(3,694.38)

Report of the Actuary on the Fifty-first Annual Valuation of the State Police Retirement System of the State of Maryland as of June 30, 2000

Summary of Principal Results

	June 30, 2000	June 30, 1999	% Change
1. Participant Data			
Number of:			
Active Members	1,636	1,647	(0.67) %
Retired Members and Beneficiaries	1,388	1,286	7.93
Vested Deferred Members	19	24	(20.83)
Inactive Status Members*	3	5	(40.00)
Total Participants	3,046	2,962	2.84
Annual Salaries of Active Members	\$ 82,609,627	\$ 78,780,262	4.86
Annual Retirement Allowances for	* * * * * * * * * *	* 00.014.000	a F a
Retired Members and Beneficiaries	\$ 41,224,900	\$ 38,614,063	6.76
2. Assets and Liabilities			
Total Actuarial Liability	\$911,272,684	\$ 850,040,813	7.20
Assets for Valuation Purposes	1,269,417,772	1,150,559,191	10.33
Unfunded Actuarial Liability	(358,145,088)	(300,518,378)	(19.18)
FASB Accrued Liability	801,565,680	717,047,938	11.79
Market Value of Assets	1,398,194,639	1,270,445,851	10.06
Unfunded FASB Accrued Liability (Surplus)	(596,628,959)	(553,397,913)	(7.81)

Report of the Actuary on the Tenth Annual Valuation of the Law Enforcement Officers' Pension System of the State of Maryland as of June 30, 2000

Summary of Principal Results

	June 30, 2000	June 30, 1999	% Change
1. Participant Data			
Number of:			
Active Members	1,130	862	31.09 %
Retired Members and Beneficiaries	206	170	21.18
Vested Deferred Members	4	4	0.00
Inactive Status Members*	32	26	23.08
Total Participants	1,372	1,062	29.19
Annual Salaries of Active Members Annual Retirement Allowances for	\$ 51,544,069	\$ 37,305,049	38.17
Retired Members and Beneficiaries	\$ 4,464,110	\$ 3,689,345	21.00
2. Assets and Liabilities			
Total Actuarial Liability	\$ 214,822,353	\$ 140,677,115	52.71
Assets for Valuation Purposes	140,033,780	102,039,476	37.23
Unfunded Actuarial Liability	74,788,573	38,637,639	93.56
FASB Accrued Liability	178,735,677	103,470,614	72.74
Market Value of Assets		, ,	72.74 38.11
Market value of Assets	146,474,430	106,057,077	30.11
Unfunded FASB Accrued Liability (Surplus)	32,261,247	(2,586,463)	1,347.31

Report of the Actuary on the Tenth Annual Valuation of the Local Fire and Police System

as of June 30, 2000

Summary of Principal Results

	June 30, 2000	June 30, 1999	% Change
1. Participant Data			
Number of:			
Active Members	184	178	3.37 %
Retired Members and Beneficiaries	19	14	35.71
Vested Deferred Members	2	2	0.00
Inactive Status Members*	18	16	12.50
Total Participants	223	210	6.19
Annual Salaries of Active Members Annual Retirement Allowances for	\$ 7,109,078	\$ 6,691,177	6.25
Retired Members and Beneficiaries	\$ 376,102	\$ 271,902	38.32
Retrict Fleinbers and Derenelaries	φ 010,102	Ψ 211,302	30.02
2. Assets and Liabilities			
Total Actuarial Liability	\$15,349,077	\$13,799,895	11.23
Assets for Valuation Purposes	10,099,024	8,582,798	17.67
Unfunded Actuarial Liability	5,250,053	5,217,097	0.63
FASB Accrued Liability	9,926,277	8,697,391	14.13
Market Value of Assets	10,391,587	8,761,739	18.60
Unfunded FASB Accrued Liability (Surplus)	(465,310)	(64,348)	(623.11)

Schedule of Active Membership Valuation Data by Plan

Teachers' Retirement					
Valuation Date As of June 30,	Number	Annual Payroll	Annual Average Pay	% Increase Avg. Pay	
1991	27,047	\$ 1,189,695,447	\$ 43,986	7.41 %	
1992	24,850	1,108,905,933	44,624	1.45	
1993	22,598	1,029,724,826	45,567	2.11	
1994	19,135	887,582,851	46,385	1.80	
1995	18,011	877,613,890	48,727	5.05	
1996	16,850	843,710,972	50,072	2.76	
1997	15,619	799,096,847	51,162	2.18	
1998	14,346	760,092,729	52,983	3.56	
1999	13,043	717,946,647	55,045	3.89	
2000	11,634	670,271,756	57,613	4.67	

	Teachers' Pension					
Valuation Date As of June 30,	Number	Annual Payroll	Annual Average Pay	% Increase Avg. Pay		
1991	48,074	\$ 1,476,064,141	\$ 30,704	7.46 %		
1992	49,999	1,554,790,625	31,096	1.28		
1993	53,235	1,685,895,609	31,669	1.84		
1994	58,898	1,934,173,528	32,839	3.69		
1995	61,749	2,108,777,126	34,151	4.00		
1996	63,818	2,221,492,064	34,810	1.93		
1997	66,978	2,352,121,326	35,118	0.88		
1998	71,435	2,559,167,548	35,825	2.01		
1999	75,578	2,858,920,323	37,827	5.59		
2000	79,297	3,082,823,993	38,878	2.78		

Employees' Retirement					
Valuation Date As of June 30,	Number	Annual Payroll	Annual Average Pay	% Increase Avg. Pay	
1991	19,358	\$ 588,323,821	\$ 30,392	6.63 %	
1992	17,855	546,938,058	30,632	0.79	
1993	16,775	517,025,369	30,821	0.62	
1994	15,852	491,015,282	30,975	0.50	
1995	15,306	491,241,364	32,095	3.62	
1996	14,850	490,784,260	33,049	2.97	
1997	13,469	445,726,994	33,093	0.13	
1998	13,149	439,012,253	33,388	0.89	
1999	12,657	442,912,527	34,993	4.81	
2000	12,213	449,491,594	36,804	5.18	

Schedule of Active Membership Valuation Data by Plan

(continued)

Employees' Pension					
Valuation Date As of June 30,	Number	Annual Payroll	Annual Average Pay	% Increase Avg. Pay	
·····		· · · · · · · · · · · · · · · · · · ·			
1991	68,583	\$ 1,740,987,708	\$ 25,385	7.53 %	
1992	67,118	1,717,196,225	25,585	0.79	
1993	67,447	1,737,891,857	25,767	0.71	
1994	69,653	1,837,305,530	26,378	2.37	
1995	71,328	1,955,054,635	27,409	3.91	
1996	70,215	1,984,030,014	28,257	3.09	
1997	68,195	1,953,776,617	28,650	1.39	
1998	68,893	2,009,168,386	29,164	1.79	
1999	70,426	2,216,109,788	31,467	7.90	
2000	73,212	2,421,498,888	33,075	5.11	

Judges' Retirement					
Valuation Date As of June 30,	Number	Annual Payroll	Annual Average Pay	% Increase Avg. Pay	
1991	270	\$ 22,906,954	\$ 84,841	4.48 %	
1992	260	22,213,378	85,436	0.70	
1993	264	22,605,184	85,626	0.22	
1994	266	22,831,506	85,833	0.24	
1995	260	23,063,700	88,707	3.35	
1996	264	23,917,131	90,595	2.13	
1997	268	25,007,240	93,311	3.00	
1998	273	25,552,537	93,599	0.31	
1999	283	30,307,258	107,093	14.42	
2000	283	30,891,317	109,157	1.93	

State Police Retirement					
Valuation Date As of June 30,	Number	Annual Payroll	Annual Average Pay	% Increase Avg. Pay	
1991	1,806	\$ 65,912,578	\$ 36,496	12.70 %	
1992	1,676	61,225,453	36,531	0.10	
1993	1,583	58,001,744	36,640	0.30	
1994	1,584	59,097,769	37,309	1.83	
1995	1,577	60,677,175	38,476	3.13	
1996	1,544	60,823,269	39,393	2.38	
1997	1,588	62,936,492	39,633	0.61	
1998	1,635	70,663,067	43,219	9.05	
1999	1,647	78,780,262	47,833	10.68	
2000	1,636	82,609,627	50,495	5.56	

Schedule of Active Membership Valuation Data by Plan

(continued)

	Law E	nforcement Officers' I	Pension	
Valuation Date As of June 30,	Number	Annual Payroll	Annual Average Pay	% Increase Avg. Pay
1991	230	\$ 8,375,557	\$ 36,415	_
1992	249	9,030,814	36,268	(0.40%)
1993	277	9,775,208	35,290	(2.70)
1994	277	10,176,944	36,740	4.11
1995	301	11,368,811	37,770	2.80
1996	294	11,645,942	39,612	4.88
1997	317	12,904,416	40,708	2.77
1998	755	30,511,663	40,413	(0.72)
1999	862	37,305,049	43,277	7.09
2000	1,130	51,544,069	45,614	5.40

Local Fire and Police				
Valuation Date As of June 30,	Number	Annual Payroll	Annual Average Pay	% Increase Avg. Pay
1991	46	\$ 1,441,502	\$ 31,337	_
1992	116	3,480,314	30,003	(4.26%)
1993	117	3,609,455	30,850	2.82
1994	131	4,065,873	31,037	0.61
1995	134	4,353,076	32,486	4.67
1996	133	4,429,929	33,308	2.53
1997	168	5,815,010	34,613	3.92
1998	177	6,287,842	35,525	2.63
1999	178	6,691,177	37,591	5.82
2000	184	7,109,078	38,636	2.78



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