Maine State Retirement System State Employee and Teacher Plan Actuarial Valuation as of June 30, 2002



TABLE OF CONTENTS

Sect	tion	Page
Lette	er of Transmittal	(i)
I.	Board Summary	I-1
II.	Assets	II-1
III.	Liabilities	III-1
IV.	Contributions	IV-1
٧.	Accounting Statement Information	V-1
	APPENDICES	
A.	Membership Information	A-1
В.	Actuarial Assumptions and Methods	B-1
C.	Summary of Plan Provisions	C-1



8000 Towers Crescent Drive, Suite 1000 Vienna, VA 22182-2700 Tel +1 703 917.0143 Fax +1 703 827.9266

December 13, 2002

Board of Trustees Maine State Retirement System #46 State House Station Augusta, ME 04333-0046

Dear Members of the Board:

At your request, we have conducted our annual actuarial valuation of the State Employee and Teacher Plan of the Maine State Retirement System. The results of the valuation are contained in the following report. Any distribution of this report must be in its entirety including this cover letter, unless prior written consent from Milliman USA is obtained.

The actuarial assumptions used in performing this valuation have been recommended by the actuary and adopted by the Board of Trustees based on Milliman's most recent review of the System's experience completed during Fiscal Year 1998. We believe the assumptions used, in the aggregate, reflect our best estimate of anticipated future experience of the plan. The results of this report are dependent upon future experience conforming to these assumptions. To the extent that future experience deviates from these assumptions, the true cost of the plan could vary from our results. The Board of Trustees has the final decision regarding the appropriateness of the assumptions.

The assumptions and methods used in performing this valuation meet the parameters set by Government Accounting Standards Board (GASB) Statement No. 25, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contributions Plans.

In preparing our report we relied, without audit, on information (some oral and some written) supplied by the Retirement System. This information includes, but is not limited to, plan provisions, employee census data and financial information. We reviewed the census data for reasonableness, and for consistency with the prior year's data. It should be noted that if any data or other information is inaccurate or incomplete, our calculations may need to be revised.



Board of Trustees Maine State Retirement System December 13, 2002 Page 2

We hereby certify that, to the best of our knowledge, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the applicable Guides to Professional Conduct, Amplifying Opinions, and Supporting Recommendations and Interpretations of the American Academy of Actuaries.

Sincerely,

Milliman USA

I, Theresa Leatherbury, am a consulting actuary for Milliman USA. I am also a member of the American Academy of Actuaries and meet their Qualification Standards to render the actuarial opinion contained herein.

Theresa Leatherbury, F.S.A.

There Latterbury

Principal

I, Althea Schwartz, am a consulting actuary for Milliman USA. I am also a member of the American Academy of Actuaries and meet their Qualification Standards to render the actuarial opinion contained herein.

Althea Schwartz, F.S.A.

alther Schwart

Principal

TL/AS/ST/AUG/10
M:\client\AUG\2002val\Report\MEVAL02.DOC

SECTION I BOARD SUMMARY

This report presents the results of the June 30, 2002 actuarial valuation of the State Employee and Teacher Plan of the Maine State Retirement System (MSRS). The primary purposes of performing the annual actuarial valuation are to:

- 1) determine the contributions that, will be paid by the State effective July 1, 2003 (fiscal year 2004), and effective July 1, 2004 (fiscal year 2005);
- 2) **measure and disclose**, as of the valuation date, the financial condition of the Plan;
- 3) indicate trends in the financial progress of the Plan;
- 4) **provide specific information** and documentation required by the Government Accounting Standards Board (GASB).

In this section of the report, we present a summary of the above information in the form of:

- the actuary's comments;
- the prior year's experience of the Plan's assets, liabilities, contributions, and membership;
- · a series of graphs highlighting key trends experienced by the Plan; and
- a tabular summary, intended for quick reference purposes, of all the principal results from this year's valuation, compared to the prior year's.

Actuary's Comments

As a result of assets earning a negative return, (7.55%), considerably below the 8% investment return assumption, the Plan has an unfunded actuarial liability of \$2,593 million as of June 30, 2002 compared to an unfunded actuarial liability of \$2,157 million measured at the June 30, 2001 valuation. This experience results in an increase in the State contribution rate of 2.02% of payroll, from 17.30% at June 30, 2001, to 19.32% at June 30, 2002.

However, thanks to the Plan's asset smoothing method adopted by the Board, which dampened the prior decade's asset run-up, the resulting impact from this year's investment performance was somewhat mitigated. The actuarial, or smoothed, rate of return measured from this past year was a positive **1.18%**, or 6.8% less than our assumption. This explains why the overall Plan funding ratio of assets to liabilities decreased only slightly from **72.9%** at June 30, 2001, to **69.4%** at June 30, 2002.

The State contribution rate increase was mainly attributable to the investment loss, relative to the assumed investment return of 8% and, on a smoothed basis, of \$402 million. Combined with a liability loss of \$34 million, due largely to pay increases above assumed levels, this resulted in a Plan experience net loss of \$436 million.



Finally, while the results are not on the favorable side this year, we emphasize again, as we have so often in the past, that the financing of any retirement plan is a long term proposition, and that annual fluctuations are to be expected and should not by themselves be cause for concern. We continue to maintain that the overall financial condition of the Plan is healthy, and that there are procedures, assumptions and methods in place, which in our opinion adequately and appropriately finance the emerging long-term liabilities of the Plan.

The balance of this section summarizes Plan trends, and provides the principal details on this year's experience.

Prior Year Experience

ASSETS

The actuarial value of assets is calculated on the total invested assets of the System, that is, assets attributable to the State Employee and Teacher Plan, the Judicial Plan, the Legislative Plan and the participating local district plans, Consolidated and non-consolidated.

Total System assets are measured on both a market value and an actuarial or smoothed value basis. The actuarial smoothing method, described in Appendix B, reflects 33% of a current year's actual market performance. In periods of high returns, this method significantly dampens the amount of asset gains above the assumed return of 8%. Conversely, in periods of returns less than the assumed return, losses are dampened. The primary advantage of this smoothing technique is contribution stability.

As stated earlier, for the year ending June 30, 2002, while the total assets of the System earned a negative **7.55**% on a market value basis, on a smoothed basis the return was a positive **1.18**%. Compared to an expected asset growth, using the 8% investment return assumption, the market value of assets fell short by **\$1,098** million. A similar comparison using actuarial or smoothed basis produced a loss of **\$508** million. The specific changes between the prior year and this year, for the System's plans combined, are presented below.



All Plans of System							
Item (In Millions)	Ма	rket Value	Actua	arial Value			
June 30, 2001 value	\$	6,994	\$	7,390			
Employer Contributions		415		415			
Member Contributions		123		123			
Benefit Payments		(403)		(403)			
Expected Investment Earnings (8%)		565		596			
Expected Value June 30, 2002	\$	7,694	\$	8,121			
INVESTMENT GAIN (LOSS)		(1,098)		(508)			
June 30, 2002 value	\$	6,596	\$	7,613			

Market value, actuarial value and asset loss (or gain) are next allocated to the separate plans. For the State Employee and Teacher Plan, the market value of assets at June 30, 2002 was \$5,092 million and the corresponding actuarial value was \$5,877 million. The Plan's share of the \$508 million loss on the actuarial assets was \$402 million.

The specific changes for the State Employee and Teacher Plan are presented below.

State Employee and Teacher Plan							
Item (In Millions)	Mark	et Value	Actua	rial Value			
June 30, 2001 value	\$	5,491	\$	5,801			
Employer Contributions		242		242			
Member Contributions		104		104			
Benefit Payments		(333)		(333)			
Expected Investment Earnings (8%)		440		465			
Expected Value June 30, 2002	\$	5,944	\$	6,279			
INVESTMENT GAIN (LOSS)		(852)		(402)			
June 30, 2002 value	\$	5,092	\$	5,877			

LIABILITIES

Three different measures of liabilities are calculated for the Plan: a present value of future obligations (PVB), an actuarial liability (using the Entry Age Normal, or EAN, actuarial method), and an accounting, or accrued benefit, liability (PVAB). Section III of this report describes the development of each. Only the actuarial liability is analyzed in terms of gain and/or loss experience, which then is used to determine the Plan's funding and accounting (GASB) disclosures. During the plan year ending June 30, 2002, the actuarial liabilities experienced an overall loss of \$34 million, which is 0.5% of the Plan's measured actuarial liability. The primary cause for liability experience being worse than anticipated this past year was pay increases greater than expected by the relevant assumption. We will continue to monitor gains and losses to assure that no significant new patterns emerge unexpectedly.

LIABILITIES (In Millions)	Total Value (PVB)	Actuarial (EAN)	Accounting (PVAB)
June 30, 2001	\$9,340	\$7,959	\$6,393
June 30, 2002	\$9,923	\$8,470	\$6,992



UNFUNDED LIABILITIES AND FUNDING RATIOS

When a retirement plan's benefit liabilities are greater than its assets, the difference between the two is the unfunded liability. This difference is measured in two ways: unfunded <u>actuarial liabilities</u>, which compares the actuarial liabilities to the actuarial asset value, and unfunded <u>accrued benefits</u>, which compares the present value of benefits accrued as of the valuation date to the market value of assets. These measures are shown below for the State Employee and Teacher Plan at June 30, 2001 and June 30, 2002, as well as the corresponding funding ratios (assets divided by liabilities) at each date.

(In Millions)	Actuarial	
6/30/2001 Net (Surplus) Unfunded	\$ 2,157	\$ 902
Funding Ratio	72.9%	85.9%
6/30/2002 Net (Surplus) Unfunded	\$ 2,593	\$1,899
Funding Ratio	69.4%	72.8%

Because the accrued benefit, or PVAB, measure reflects the full (unsmoothed) impact of investment gains and losses, changes in this related funding ratio are also unsmoothed, appearing as larger movements.



CONTRIBUTIONS

In Section IV, we show the various contribution rates by plans within the State Employee and Teacher Plan. Below we present overall the State contribution rate for all of these plans, and compare it to the rate developed in the June 30, 2001 actuarial valuation. In summary, due to both investment losses and liability losses, the overall State contribution rate has increased by 2.02% of payroll. Because of the State's biennial budgeting practice, contribution rates resulting from this valuation will set rates for the next (FY 2004 and FY 2005) biennium.

Rate as Percent of Covered Payroll	
June 30, 2001 State Contribution Rate	17.30%
Increase due to Investment Loss	1.89%
Increase due to Liability Loss	0.13%
June 30, 2002 State Contribution Rate	19.32%

MEMBERSHIP

There are three types of plan participants: current active members, terminated members who retain a right to a deferred "vested" benefit, and benefit recipients, who may be retired former members, disabled members or beneficiaries of deceased active, retired or disabled members. In Appendix A, we present extensive details on membership statistics. Below, we compare totals in each group between June 30, 2001 and 2002.

As shown below, there was an overall increase in participation during the year of 2%.

	6/30/2002	6/30/2001	Change
Active Members	43,246	42,575	1.6%
Terminated "Vested" Members	2,448	1,894	29.3%
Benefit Recipients	23,228	22,819	1.8%
TOTAL	68,922	67,288	2.4%



Trends

One of the best ways to measure or evaluate the financial condition of a retirement plan is to examine the historical trends that are evolving. Below, we present three charts which present 10 years worth of trend information on the assets and liabilities of the State Employee and Teacher Plan, annual cash flows in and out, and the State's overall contribution rate. Our comments on each follow.

Chart A: ASSETS / LIABILITIES - State & Teacher Only



Chart B: CASH FLOWS - Total System

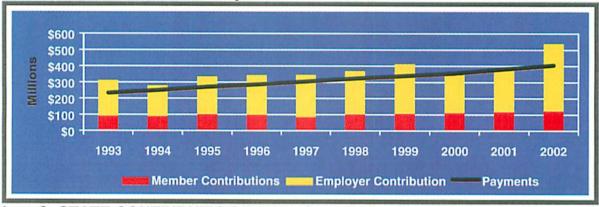
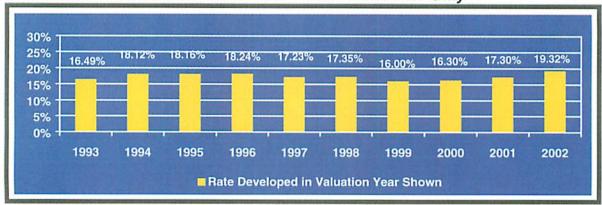


Chart C: STATE CONTRIBUTION RATE - State & Teacher Only



Comments

Chart A depicts the aforementioned investment and liability performance losses of the year ending June 30, 2002. Despite those losses, the ratio of assets to liabilities, which has continuously improved since early 1980's, is the third best ever for the State Employee and Teacher Plan.

Chart B presents an emerging trend being faced by many retirement systems with the aging of the baby boomer generation. Payments to retirees are on the increase, while cash into plans from employer and employee contributions is stable or declining. This is not unanticipated, and essentially is the reason for funding and investment strategies that seek to build plan assets in earlier years when contributions being paid in exceed benefit payments out. The 2002 entry reflects the one-time impact of several of the State's participating local districts paying off their unfunded liability obligations to the System's Consolidated Plan for Participating Local Districts.

Finally, Chart C, looks at changes in the State's overall contribution rate for the State Employee and Teacher Plan. It shows the impact of the past decade's sustained investment gains. After two years of market downturn, this year's rate is the highest of the range shown.



TOTAL STATE EMPLOYEE AND TEACHER PLAN									
	ARY OF PRINCIPAL	RESULTS							
Valuation As Of>	6/30/2002	6/30/2001	% change						
PARTICIPANT COUNTS									
Actives Retired Members Beneficiaries of Retirees	43,246 15,916 4,674	42,575 15,563 4,605	1.6% 2.3% 1.5%						
Survivors of Deceased Members	843	908	-7.2%						
Disabled Members	1,795	1,743	3.0%						
Deferred "Vested" Members	2,448	1,894	29.3%						
TOTAL	68,922	67,288	2.4%						
Annual Salaries of Active Members Annual Payments to Benefit	\$ 1,405,943,887	\$ 1,318,999,535	6.6%						
Recipients	\$ 330,969,987	\$ 309,844,558	6.8%						
	ASSETS & LIABILITI	ES							
Total Actuarial Liability	\$ 8,469,835,410	\$ 7,958,809,863	6.4%						
Assets /Actuarial (Smoothed)	5,877,158,371	5,801,422,994	1.3%						
Unfunded Actuarial Liability	\$ 2,592,677,039	\$ 2,157,386,869	20.2%						
Funding Ratio	69.39%	72.89%	N/A						
Present Value of Accrued Benefits	\$ 6,991,657,417	\$ 6,393,493,572	9.4%						
Assets/Market Value	5,092,119,785	5,490,520,609	-7.3%						
Unfunded PVAB	\$ 1,899,537,632	\$ 902,972,963	110.4%						
Accrued Benefit Funding Ratio	72.83%	85.88%	N/A						
CONTR	IBUTIONS AS % OF	PAYROLL							
	Fiscal Year 2004	Fiscal Year 2003							
Normal Cost Contribution	6.17%	6.16%							
Unfunded Actuarial Liability Contribution	13.15	11.14							
Total State Contribution	19.32%	17.30%							

	-	TEACHERS							
SUMMARY OF PRINCIPAL RESULTS									
Valuation As Of>	% change								
PARTICIPANT COUNTS									
Actives		28,344		27,905	1.6%				
Retired Members		8,864		8,541	3.8%				
Beneficiaries of Retirees Survivors of Deceased Members		1,892 279		1,820 308	4.0% - 9.4%				
Disabled Members		699		674	3.7%				
Deferred "Vested" Members		1,446	_	1,092	32.4%				
TOTAL		41,524		40,340	2.9%				
Annual Salaries of Active Members	\$	889,647,463	\$	843,950,689	5.4%				
Annual Payments to Benefit Recipients	\$	184,710,816	\$	170,243,549	8.5%				
	ASSET	TS & LIABILIT	IES						
Total Actuarial Liability	\$ 5,	442,042,898	\$	5,102,063,770	6.7%				
Assets/Actuarial (Smoothed)	_3,	600,534,614	;	3,509,918,347	2.6%				
Unfunded Actuarial Liability	\$ 1,	841,508,284	\$	1,592,145,423	15.7%				
Funding Ratio		66.16%		68.79%	N/A				
Present Value of Accrued Benefits	\$ 4,	279,369,714	\$:	3,970,997,626	7.8%				
Assets/Market Value	_3,	119,594,945	;	3,321,819,326	-6.1%				
Unfunded PVAB	\$1,	159,774,769	\$	649,178,300	78.7%				
Accrued Benefit Funding Ratio		72.90%		83.65%	N/A				
CONTRI	BUTIC	ONS AS % OF	PA	/ROLL					
	Fisca	al Year 2004	Fis	scal Year 2003					
Normal Cost Contribution		6.04%		6.04%					
Unfunded Actuarial Liability Contribution		14.76	81	12.84					
Total State Contribution	-	20.80%		18.88%					

TOTAL STATE EMPLOYEES (Regular and Special Plans)								
SUMMARY OF PRINCIPAL RESULTS								
Valuation As Of>	% change							
PARTICIPANT COUNTS								
Actives Retired Members Beneficiaries of Retirees Survivors of Deceased Members Disabled Members Deferred "Vested" Members TOTAL Annual Salaries of Active Members	- \$	14,902 7,052 2,782 564 1,096 1,002 27,398 516,296,424	-	14,670 7,022 2,785 600 1,069 <u>802</u> 26,948 475,048,847	1.6% 0.4% -0.1% -6.0% 2.5% 24.9% 1.7% 8.7%			
Annual Payments to Benefit Recipients	\$	146,259,171	\$	139,601,009	4.8%			
	SSE	TS & LIABILITIE	S					
Total Actuarial Liability	\$	3,027,792,512	\$	2,856,746,093	6.0%			
Assets/Actuarial (Smoothed)	_	2,276,623,757	_	2,291,504,647	-0.6%			
Unfunded Actuarial Liability	\$	751,168,755	\$	565,241,446	32.9%			
Funding Ratio		75.19%		80.21%	N/A			
Present Value of Accrued Benefits Assets/Market Value	\$	2,712,287,703 1,972,524,840	\$	2,422,495,946 2,168,701,283	12.0% -9.0%			
Unfunded PVAB	\$	739,762,863	\$	253,794,663	191.5%			
Accrued Benefit Funding Ratio		72.73%		89.52%	N/A			
CONTRIB	UTI	ONS AS % OF P	PAYE	ROLL				
	Fi	scal Year 2004	1	Fiscal Year 2003				
Normal Cost Contribution		6.39%	Ñ	6.38%				
Unfunded Actuarial Liability Contribution	_	10.38	-	8.10				
Total State Contribution		16.77%		14.48%				

STATE EMPLOYEE REGULAR PLAN									
	SUMMARY OF PRINCIPAL RESULTS								
Valuation As Of> 6/30/2002 6/30/2001						% change			
PARTICIPANT COUNTS									
Actives		12,921			12,831	0.7%			
Retired Members Beneficiaries of Retirees Survivors of Deceased Members Disabled Members		6,396 2,516 561 1,072			6,375 2,530 596 1,050	0.3% -0.6% -5.9% 2.1%			
Deferred "Vested" Members		1,002			802	24.9%			
TOTAL	-	24,468		_	24,184	1.2%			
Annual Salaries of Active Members	\$	436,276,144		\$	405,661,653	7.5%			
Annual Payments to Benefit Recipients	\$	127,701,103		\$	121,997,834	4.7%			
	ASSE	TS & LIABILIT	IES						
Total Actuarial Liability	\$:	2,565,431,125		\$ 2	,433,381,539	5.4%			
Assets/Actuarial (Smoothed)		1,965,408,425		1	,976,450,779	-0.6%			
Unfunded Actuarial Liability	\$	600,022,700		\$	456,930,760	31.3%			
Funding Ratio		76.61%			81.22%	N/A			
Present Value of Accrued Benefits	\$:	2,148,384,393		\$ 2	,039,057,299	5.4%			
Assets/Market Value	_	1,702,879,946		_1	,870,531,375	-9.0%			
Unfunded PVAB	\$	445,504,447		\$	168,525,924	164%			
Accrued Benefit Funding Ratio		79.26%			91.74%	N/A			
CONTR	IBUT	IONS AS % OF	PAY	RO	LL				
	F	iscal Year 2004	1	Fis	scal Year 2003				
Normal Cost Contribution		6.04%	6		6.04%)			
Unfunded Actuarial Liability Contribution	_	9.81		_	7.67				
Total State Contribution		15.85%	6		13.71%				

STATE EMPLOYEE SPECIAL PLANS (COMPOSITE)								
SUMMARY OF PRINCIPAL RESULTS								
Valuation As Of> 6/30/2002 6/30/2001 % change								
PARTICIPANT COUNTS								
Actives	1,981	1,839	7.7%					
Retired Members	656	647	1.4%					
Beneficiaries of Retirees	266	255	4.3%					
Survivors of Deceased Members	3	4	-25%					
Disabled Members	24	19	26.3%					
Deferred "Vested" Members	0	0	0.0%					
TOTAL	2,930	2,764	6.0%					
Annual Salaries of Active Members	\$ 80,020,280	\$ 69,387,194	15.3%					
Annual Payments to Benefit Recipients	\$ 18,558,068	\$ 17,603,175	5.4%					
AS	SETS & LIABILITIE	ES						
Total Actuarial Liability	\$ 462,361,387	\$ 423,364,554	9.2%					
Assets/Actuarial (Smoothed)	311,215,332	315,053,868	-1.2%					
Unfunded Actuarial Liability	\$ 151,146,055	\$ 108,310,686	39.5%					
Funding Ratio	67.31%	74.42%	N/A					
Present Value of Accrued Benefits	\$ 563,903,310	\$ 383,438,647	47.1%					
Assets/Market Value	269,644,894	298,169,908	-9.6%					
Unfunded PVAB	\$ 294,258,416	\$ 85,268,739	245%					
Accrued Benefit Funding Ratio	47.82%	77.76%	N/A					
CONTRIB	UTIONS AS % OF I	PAYROLL						
	Fiscal Year 2004	Fiscal Year 2003						
Normal Cost Contribution	8.29%	8.37%						
Unfunded Actuarial Liability Contribution	13.47	10.63						
Total State Contribution	21.76%	19.00%						

SECTION II ASSETS

The purpose of an actuarial valuation is to assess the funded status of a pension plan at a certain date and to establish, on the basis of that assessment, the plan's funding requirements. On the asset side of a plan's funded status, the relevant measure is net assets available for benefits. "Assets" includes the System's investment portfolio, committed for investment management to outside professionals, buildings and land owned by the System outside of the investment portfolio, and cash managed by the System outside of the investment portfolio.

The investment portfolio is by far the largest of these assets in dollar value, so much so, that its value is often used, in contexts, other than the actuarial valuation, as a kind of proxy for total assets. The investment policy of the System's Board of Trustees governs the investment portfolio and it is to the portfolio that the Trustees' asset allocation policy applies. However, for purposes of evaluating fairly the relationship of plan assets to plan liabilities, the value of all assets is properly to be included.

The value of plan assets for actuarial valuation purposes must be established and disclosed on a market value basis. Thereafter, for purposes of establishing rational plan funding requirements, the market value may be, and in the case of the System's plans is, smoothed. Market value represents a "snap-shot" or "cash-out" value which provides a basis for measuring investment performance from one year to the next. Market value, however, can fluctuate widely, particularly in the short term. As a result, market value is usually not suitable for long range planning.

In an ongoing pension plan, the long range is the important perspective. Actuarial value, or "carrying value" is market value that has been smoothed and is the actuary's best estimate of long term asset value, providing a more useful evaluation of the fund's ongoing ability to meet its obligations. The actuarial smoothing methodology employed in the valuation of the System's plans is explained later in this section.

In this section we present the following information on assets:

- **Disclosure** of the value of plan assets on a market basis as measured at June 30, 2002 and June 30, 2001;
- Statement of the changes in asset value on a market basis during the year;
- Application to market value of the actuarial smoothing methodology that results in the actuarial value of assets;
- Attribution of the actuarial value of assets among the System's plans; and
- A statement of the return on plan assets for the year, on both a market value basis and an actuarial value basis.



Disclosure of Plan Market Value Of Assets

STATEMENT OF ASSETS AT MARKET VALUE (In Millions)						
	June	30,				
	2002	2001*				
Net Value of Investment Portfolio	\$ 6,566	\$6,992				
Buildings, land	3	2				
Cash external to portfolio	27	0				
Net Assets Available for Benefits	<u>\$ 6,596</u>	<u>\$ 6,994</u>				

^{*} Characterization of assets differs from 6/30/2001 valuation because of clarifications and corrections. Total amount of Net Assets Available for benefits is unchanged.

Changes in Asset Value (market value based) in Valuation Year:

The components of asset change are:

- · Contributions received from members and employers
- · Benefits paid out
- Investment Income/(Loss) (realized and unrealized)

The specific changes during 2002 are presented below:

CHANGES IN MARKET VALUES	
Plan Assets/Market Value – June 30, 2001	\$ 6,993,547,146
Member Contributions Received	122,613,975
Employer Contributions Received	415,551,283
Benefits Paid Out	(403,208,003)
Investment Income/(Loss)	(532,832,468)
Plan Assets/Market Value - June 30, 2002	\$6,595,671,933

Application to Market Value of Smoothing Methodology to Produce the Actuarial Value of Assets:

The Actuarial Value of Assets represents a "smoothed" value developed by the actuary to reduce the volatility evident in the investment markets, particularly over short time periods. Because the System's plans are properly regarded as virtually perpetual in nature, it is appropriate to manage their funding with strategies that in effect require that short term events be seen within the longer perspective. For the System, the actuarial value of assets at a given valuation date is calculated by adding to the Adjusted Actuarial Value as Expected at the given valuation date an amount that is 33% of the difference between the Adjusted Actuarial Value as Expected at the valuation date and the Market Value of Assets at that date. The following table illustrates the calculation of the Actuarial Value of Assets for the June 30, 2002 valuation.

	DEVELOPMENT OF ACTUARIAL VALUE OF ASSET AS OF JUNE 30, 2002	S
1.	Actuarial Value of Assets at June 30, 2001	\$ 7,389,558,863
2.	Amount in (1) with interest to June 30, 2002 at 8.00% per year	7,980,723,572
3.	Employer & member contributions for the Plan Year ended June 30, 2002	538,165,258
4.	Interest on contributions assuming payments made uniformly throughout the year to June 30, 2002 at 8.00% per year	20,920,977
5.	Disbursements from Trust during the period June 30, 2001 through June 30, 2002	403,208,003
6.	Interest on disbursements to June 30, 2002 at 8.00% per year	15,674,029
7.	Expected adjusted Actuarial Value of Assets at June 30, 2002 = (2) + (3) + (4) - (5) - (6)	8,120,927,775
8.	Actual Market Value of Assets at June 30, 2002	6,595,671,933
9.	Difference Between (8) and (7)	(1,525,255,842)
10.	Actuarial Value of Assets at June 30, 2002 = (7) + 33% of (9)	\$7,612,509,160

Allocation of Actuarial Value of Assets:

In the investment portfolio, assets for all of the System's plans are commingled for investment purposes. Other assets are in effect commingled in that their value is attributed across all of the plans. The actuarial smoothing methodology is applied on the market value of total assets. This produces a smoothing factor which is then applied to the market value of assets attributable to each of the plans. The smoothing factor derived in this valuation is 1.15417 (\$7,612,509,160 \div \$6,595,671,933). The allocation of actuarial value of assets to each of the System's plans is shown in the following chart.

ALLOCATION OF ACTUARIAL VALUE OF ASSETS AS OF JUNE 30, 2002							
Market Value Actuarial Value							
Teachers	\$ 3,119,594,945	\$ 3,600,534,614					
State (Regular and Special)	1,972,524,840	2,276,623,757					
Judges	32,119,276	37,071,019					
Legislators	5,411,908	6,246,247					
Participating Local Districts (Consolidated and Non-Consolidated)	1,466,020,964	1,692,033,523					
Total Fund	\$ 6,595,671,933	\$ 7,612,509,160					

Investment Performance:

The Market Value of Assets (MVA) returned (7.6%) during 2002. This is lower than the plan's assumed return of 8% but not unexpected in a year, the second in a row, in which investment markets performed poorly.

On the basis of the actuarial value of assets, the return at June 30, 2002 was 1.2%. This return, as compared to the return on a market value basis, demonstrates the effect of smoothing which, while dampening the effect of market gains in good times, serves to cushion the effect of losses in periods of market decline.



SECTION III LIABILITIES

In this section we present detailed information on liabilities of the State Employee and Teacher Plan including:

- Disclosure of Plan liabilities as measured at June 30, 2002 and June 30, 2001;
- Statement of changes in these liabilities during the year; and
- A projection of future liabilities.

Disclosure:

Several types of liabilities are calculated and presented in this report. Each type reflects the needs of persons ultimately using the figures and the purpose for which they are using them.

- Total Future Obligations: Used for analyzing the financial outlook of the Plan, this represents the amount of money needed today to fully pay off all future benefits and expenses of the Plan, assuming participants continue to accrue benefits.
- Actuarial Liabilities: Used for funding calculations and GASB disclosures, this
 liability is calculated by taking the Total Future Obligations above and subtracting
 the present value of future Member Contributions and future Employer Normal
 Costs under an acceptable actuarial funding method. The method employed for
 the State Employee and Teacher Plan is referred to as the Entry Age Normal
 funding method.
- Accrued Liabilities: Used for communicating the current level of liabilities, this
 liability represents the total amount of money needed today to fully pay off the
 current accrued obligations of the Plan, assuming no future accruals of benefits.
 These liabilities are also required for accounting purposes (FAS 35) and are used
 to assess whether a plan can meet its current benefit commitments.



The table below discloses each of these liabilities for the current, and prior, State Employee and Teacher Plan valuation. With respect to each disclosure, a subtraction of the appropriate value of Plan assets yields, for each respective type, a **net surplus** or an **unfunded liability.**

LIABILITIES/NET (SURPLUS) UNFUNDED		6/30/2002		6/30/2001
Total Obligations				
Active Participant Benefits	\$	6,208,946,580	\$	5,840,233,305
Retiree and Inactive Benefits		3,714,368,070	835	3,499,338,199
Total Obligations	\$	9,923,314,650	\$	9,339,571,504
Market Value of Assets		5,092,119,785		5,490,520,609
Future Member Contributions		810,325,166		770,137,523
Future State Contributions		4,020,869,699		3,078,913,372
Total Resources	\$	9,923,314,650	\$	9,339,571,504
Actuarial Liability				
Total Liabilities	\$	9,923,314,650	\$	9,339,571,504
Present Value of Future Normal				200 000 1 100
Costs Under Entry Age Method		643,154,074		610,624,118
Present Value Of Future Member				
Contributions		810,325,166		770,137,523
Actuarial Liability	\$	0, 100,000, 110	\$.,,
Actuarial Value of Assets	546	5,877,158,371	1020	5,801,422,994
Net (Surplus) Unfunded	\$	2,592,677,039	\$	2,157,386,869
Accrued Liability				
Total Liabilities	\$	9,923,314,650	\$	
Less Present Value of Future Benefit Accruals		(2,931,657,233)		(2,946,077,932)
Accrued Liability	\$	6,991,657,417	\$	6,393,493,572
Market Value of Assets		5,092,119,785		5,490,520,609
Net (Surplus) Unfunded	\$	1,899,537,632	\$	902,972,963



Changes in Liabilities:

Each of the liabilities disclosed in the prior table is expected to change at each valuation. The components of that change, depending upon which liability is analyzed, can include:

- new hires since the last valuation:
- · benefits accrued since the last valuation;
- plan amendments increasing benefits;
- passage of time during which interest accrues to the prior liability;
- benefits paid to retirees since the last valuation;
- participants retiring, terminating, or dying at rates different than expected;
- · a change in actuarial or investment assumptions; and
- a change in the actuarial funding method.

Unfunded liabilities or surpluses will change because of all the above, and also due to changes in fund assets resulting from:

- employer contributions different than expected;
- investment earnings different than expected; and
- a change in the method used to measure plan assets.

In each valuation we report on those elements of change which are of particular significance, potentially affecting the long-term financial outlook of the Plan. Below we present the key changes in liabilities since the last valuation.

	OE	TOTAL BLIGATION	\$ in Millions ACTUARIAL LIABILITY	CCRUED IABILITY
Liabilities 6/30/2001	\$	9,340	\$ 7,959	\$ 6,393
Liabilities 6/30/2002	\$	9,923	\$ 8,470	\$ 6,992
Liability Increase (Decrease)	\$	583	\$ 511	\$ 599
Change due to:				
Plan Amendment	\$	0	\$ 0	\$ 0
Assumption Change	\$	0	\$ 0	\$ 0
Actuarial (Gain)/Loss		N/A	\$ 34	N/A
Benefits Accumulated and Other Sources	\$	583	\$ 477	\$ 599

ACTUARIAL LIABILITY AS OF JUNE 30, 2002

	Total Plan	Teachers	State Regular	Special Plans
Actuarial Liabilities for:				
a. Active Members	\$ 4,755,467,340	\$ 3,288,166,790	\$ 1,232,012,787	\$ 235,287,763
b. Retired, Disabled and Beneficiary Members	3,594,668,294	2,079,988,493	1,287,606,177	227,073,624
c. Vested Deferred and Inactive Status Members	119,699,776	73,887,615	45,812,161	0
2. Total Actuarial Liability (1(a) + 1(b) + 1(c))	\$ 8,469,835,410	\$ 5,442,042,898	\$ 2,565,431,125	\$ 462,361,387
3. Actuarial Value of Assets	5,877,158,371	3,600,534,614	1,965,408,425	311,215,332
4. Unfunded Actuarial Liability (2 – 3)	\$ 2,592,677,039	\$ 1,841,508,284	\$ 600,022,700	<u>\$ 151,146,055</u>

SECTION IV CONTRIBUTIONS



In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level (if any) of contributions is needed to properly fund the plan. Typically, the actuarial process will utilize a funding approach that will result in a pattern of contributions that is both stable and predictable.

For this Plan, the funding approach employed is the Entry Age Normal Actuarial Cost Method. Under this method there are two components to the total contribution, a normal cost and, given the Plan's unfunded actuarial liability, an amortization payment. A normal cost is determined for each individual participant which, when added up for all participants, represents the Plan's total normal cost. Each year's normal cost represents the cost to fund that portion of the total future obligations which has been allocated to the current year, based upon the actuarial cost method in use.

The amortization payment, on the other hand, is not calculated for individual participants but calculated for the Plan as a whole, and represents an annual installment to fund the **unfunded actuarial liability (UAL)** for the Plan. The UAL represents the amount of additional funds that would have been accumulated by the valuation date had all prior normal cost contributions been made and all actuarial assumptions been realized.

In Appendix B we describe more fully this technical topic.

The table below presents and compares the actuarially determined contributions for the Plan for this valuation and the prior one, and includes a calculation of the average annual normal cost rate per participant for each year.

ACTUARIALLY DETERMINED CONTRIBUTION	7/1/2002	7/1/2001
Entry Age Normal Cost	6.17%	6.16%
Amortization Payment	13.15%	11.14%
Actuarially Determined Contribution	19.32%	17.30%

On the following pages we display the contribution rates developed for each of the member/plan groups within the Plan.

TABLE IV-1 STATE EMPLOYER CONTRIBUTION RATES FISCAL YEAR 2004 – ENTRY AGE NORMAL

	Total State	Teachers	State Regular	State Police Marine Resources Inland Fish & Wildlife (Closed Plans)	Prison Employees	Liquor Inspectors	Forest Rangers	25 & Out Plan	1998 Special Plan
New Entrant Normal Cost Contributions as Percent of Payroll	6.17%	6.04%	6.04%	17.84%	9.04%	8.24%	7.34%	9.15%	6.89%
Unfunded Actuarial Liability Contribution as Percent of Payroll	<u>13.15</u>	<u>14.76</u>	9.81	<u>28.98</u>	14.68	13.39	11.92	14.86	<u>11.19</u>
Total Contributions as Percent of Payroll	19.32%	20.80%	<u>15.85%</u>	46.82%	23.72%	21.63%	<u>19.26%</u>	24.01%	18.08%

TABLE IV-2
DERIVATION OF UNFUNDED ACTUARIAL LIABILITY RATES

	Valuation Date June 30	Teachers	State Regular	State Police, Marine Resource & Inland Fish	Prison Employees	Liquor Inspectors	Forest Rangers	25 & Out Plan	1998 Special Plan
1.	Present Value of Future Benefits	6,396,854,754	2,997,227,558	238,421,827	41,143,610	4,662,903	22,996,479	54,584,473	167,423,046
2.	Normal Cost Rate	6.04%	6.04%	17.84%	9.04%	8.24%	7.34%	9.15%	6.89%
3.	Present Value of Future Payroll	6,974,520,498	3,154,101,051	472,620	3,957,300	690,888	3,358,376	130,669,585	271,169,470
4.	Present Value of Future Normal Cost (2) x (3)	421,261,038	190,507,703	84,315	357,740	56,929	246,505	11,956,267	18,683,576
5.	Present Value of Future Member Contributions	533,550,818	241,288,730	40,881	342,306	52,853	290,500	11,302,919	23,456,159
6.	Actuarial Liability: (1) – (4) – (5)	5,442,042,898	2,565,431,125	238,296,631	40,443,564	4,553,121	22,459,474	31,325,287	125,283,311
7.	Actuarial Value of Assets	3,600,534,614	1,965,408,425	213,778,033	35,631,323	3,988,634	20,024,042	(5,590,789)	43,384,090
8.	Unfunded Actuarial Liability: (6) – (7)	1,841,508,284	600,022,700	24,518,598	4,812,241	564,487	2,435,432	36,916,076	81,899,221
9.	Estimated Payroll	889,647,463	436,276,144	6,033,323	2,336,871	300,734	1,456,585	17,711,292	52,181,475
10.	Amortization Factor	14.0232	14.0232	14.0232	14.0232	14.0232	14.0232	14.0232	14.0232
11.	Unfunded Actuarial Liability Rate: (8)/(9)/(10)	14.76%	9.81%	28.98%	14.68%	13.39%	11.92%	14.86%	11.19%

SECTION V

ACCOUNTING STATEMENT INFORMATION



ACCOUNTING STATEMENT INFORMATION

Statement No. 35 of the Financial Accounting Standards Board (FASB) requires the System to disclose certain information regarding the Plan's funded status. Statement No. 25 of the Governmental Standards Board (GASB) establishes standards for disclosure of pension information by public employee retirement systems (PERS) and governmental employers in notes to financial statements and supplementary information.

The FASB-35 disclosures are intended to provide a "snap shot" view of how the Plan's assets compare to its liabilities if contributions stopped and accrued benefit claims had to be satisfied. However, due to potential legal requirements and the possibility that alternative interest rates would have to be used to determine the liabilities, these values may not be a good indication of the amount of money it would take to satisfy these claims if the Plan were to terminate.

The GASB 25 actuarial accrued liability is the same as the actuarial liability amount calculated for funding purposes.

Both the present value of accrued benefits (FASB-35) and the actuarial accrued liability (GASB-25) are determined assuming that the plan is ongoing and participants continue to terminate employment, retire, and otherwise act in accordance with the actuarial assumptions. Liabilities are discounted at the assumed valuation interest rate of 8% per annum.

FASB Statement No. 35 specifies that a comparison of the present value of accrued (accumulated) benefits to the market value of the assets as of the valuation date must be provided. GASB Statement No. 25 requires the actuarial accrued liability to be compared with the actuarial value of assets for funding purposes. The relevant amounts as of June 30, 2002 are exhibited in Table V-1, Table V-2, and Table V-3. As directed by FASB-35, the liabilities shown in Section A of Table V-1 and Table V-2 do not include any projection for future service and salary. Finally, Table V-4 reconciles the FASB-35 liabilities determined as of the prior valuation, June 30, 2001, to the liabilities as of June 30, 2002.

TABLE V-1 ACCOUNTING STATEMENT INFORMATION									
STATE EMPLOYEE AND TEACHER PLAN TOTAL									
A. FASB No. 35 Basis	2002	2001							
Present Value of Benefits Accrued to Date:									
a. Members Currently Receiving Paymentsb. Former Vested Membersc. Active Members	\$ 3,594,668,294 119,699,776 3,277,289,347	\$ 3,374,950,025 124,388,174 							
 Total Present Value of Accrued Benefits (1(a) + 1(b) + 1(c)) 	\$ 6,991,657,417	<u>\$ 6,393,493,572</u>							
3. Assets at Market Value	_5,092,119,785	\$ 5,490,520,609							
4. Unfunded Value of Benefits (2) – (3)	\$ 1,899,537,632	\$ 902,972,963							
 Ratio of Assets to Value of Benefits (3)/(2) 	72.83%	85.88%							
B. GASB No. 25 Basis									
 Actuarial accrued liabilities for retirees and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits 	\$ 3,714,368,070	\$ 3,499,338,199							
Actuarial accrued liabilities for current employees	4,755,467,340	4,459,471,664							
 Total actuarial accrued liability (1)+(2) 	\$ 8,469,835,410	\$ 7,958,809,863							
4. Net actuarial assets available for benefits	5,877,158,371	<u>5,801,422,994</u>							
 Unfunded actuarial accrued liability (3)–(4) 	\$ 2,592,677,039	<u>\$ 2,157,386,869</u>							

TABLE V-2 ACCOUNTING STATEMENT INFORMATION – FASB NO. 35 AS OF JUNE 30, 2002

	Total System	Teachers	State Regular	State Special
Present Value of Benefits Accrued to Date:				
a. Members Currently Receiving Payments	\$ 3,594,668,294	\$ 2,079,988,493	\$ 1,287,606,177	\$ 227,073,624
b. Former Vested Members	119,699,776	73,887,615	65,812,161	0
c. Active Members	3,277,289,347	2,125,493,606	814,966,055	336,829,686
 Total Present Value of Accrued Benefits (1(a) + 1(b) + 1(c)) 	\$ 6,991,657,417	\$ 4,279,369,714	\$ 2,148,384,393	\$ 563,903,310
3. Assets at Market Value	5,092,119,785	3,119,594,945	1,702,879,946	269,644,894
4. Unfunded Value of Accrued Benefits (2)-(3)	\$ 1,899,537,632	<u>\$ 1,159,774,769</u>	\$ 445,504,447	\$ 294,258,416
 Ratio of Assets to Value of Accrued Benefits (3)/(2) 	72.83%	72.90%	79.26%	47.82%

TABLE V-3 ACCOUNTING STATEMENT INFORMATION – GASB NO. 25 AS OF JUNE 30, 2002

	Total System	Teachers	State Regular	State Special
Actuarial Accrued Liability:				
a. Members Currently Receiving Payments	\$ 3,594,668,294	\$ 2,079,988,493	\$ 1,287,606,177	\$ 227,073,624
b. Former Vested Members	119,699,776	73,887,615	45,812,161	0
c. Active Members	4,755,467,340	3,288,166,790	1,232,012,787	235,287,763
Total Actuarial Accrued Liability (1(a) + 1(b) + 1(c))	\$ 8,469,835,410	\$ 5,442,042,898	\$ 2.565.431.125	\$ 462,361,387
3. Actuarial Value of Assets	5,877,158,371	3,600,534,614	1,965,408,425	311,215,332
4. Unfunded Actuarial Accrued Liability (2 – 3)	\$ 2,592,677,039	<u>\$ 1,841,508,284</u>	\$ 600,022,700	<u>\$ 151,146,055</u>
5. Funded Ratio	69.39%	66.16%	76.61%	67.31%
6. Annual Payroll	\$ 1,405,943,887	\$ 889,647,463	\$ 436,276,144	\$ 80,020,280
7. UAAL as % of Payroll	184.41%	206.99%	137.53%	188.88%



TABLE V-4 Statement of Changes in Total Actuarial Present Value of All Accrued Benefits

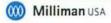
(In millions)	Accumulated Benefit Obligation (FASB No. 35)
Actuarial Present Value of Accrued Benefits at June 30, 2001	\$ 6,393
Increase (Decrease) During years Attributable to: Passage of Time (Interest Accrual)	498
Benefits Paid – FY 2002	(333)
Benefits Accrued, Other Gains/Losses	434
Plan Amendment	0
Net Increase (Decrease)	599
Actuarial Present Value of Accrued Benefits at June 30, 2002	<u>\$ 6,992</u>



MAINE STATE RETIREMENT SYS									
TEACHERS									
Count	28,344								
Average Current Age	44.9								
Average Service	13.5								
Average Valuation Pay	\$ 31,388								
STATE REGULAR									
Count	12,921								
Average Current Age	45.5								
Average Service	12.7								
Average Valuation Pay	\$ 33,765								
FOREST RANGERS (CLOSED PLAN)									
Count	32								
Average Current Age	48.3								
Average Service	24.9								
Average Valuation Pay	\$ 45,518								
INLAND FISHERIES & WILDLIFE OFFICER	RS (CLOSED PLAN)								
Count	26								
Average Current Age	51.3								
Average Service	27.7								
Average Valuation Pay	\$ 48,420								
LIQUOR INSPECTORS (CLOSE	D PLAN)								
Count	7								
Average Current Age	52.3								
Average Service	26.2								
Average Valuation Pay	\$ 42,962								



MAINE STATE RETIREMENT SYSTEM ACTIVE MEMBER DATA AS OF JUNE 30, 2002								
PRISON EMPLOYEES (CLOSED PLAN)								
Count		50						
Average Current Age		51.1						
Average Service		23.6						
Average Valuation Pay	\$	46,737						
STATE POLICE (CLOSED PLAN)								
Count		73						
Average Current Age		47.8						
Average Service		23.2						
Average Valuation Pay	\$	59,003						
MARINE RESOURCES OFFICERS (CLOSED PLAN)								
Count		9						
Average Current Age		48.6						
Average Service		24.5						
Average Valuation Pay	\$	51,915						
25 & OUT PLAN								
Count		387						
Average Current Age		35.5						
Average Service		9.3						
Average Valuation Pay	\$	45,766						
1998 SPECIAL PLAN								
Count		1,397						
Average Current Age		42.2						
Average Service		9.4						
Average Valuation Pay	\$	37,353						



MAINE STATE RETIREMEN ACTIVE MEMBER DATA AS OF	
STATE TOTALS (EXCLUDE:	S TEACHERS)
Count	14,902
Average Current Age	45.0
Average Service	12.5
Average Valuation Pay	\$34,646

MAINE STATE RETIREMENT SYSTEM NON-ACTIVE MEMBER DATA AS OF JUNE 30, 2002 TEACHERS												
Count Total Annual Average Annu Benefit Benefit												
Retired												
(Option 0-4) (Option 4 Concurrent Beneficiary)	8,864 1,196	\$ 155,557,732 \$ 5,040,682	\$ 17,549 \$ 4,215									
Disabilities/1122	7	\$ 137,848	\$ 19,693									
Disabilities/3 and 3-A	692	\$ 14,132,360	\$ 20,422									
Beneficiaries	696	\$ 8,427,848	\$ 12,109									
Pre-Retirement Death Benefits	279	\$ 1,414,346	\$ 5,069									
Terminated Vested	1,446	\$ 10,403,086	\$ 7,194									

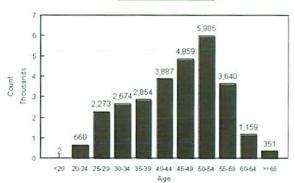
MAINE STATE RETIREMENT SYSTEM NON-ACTIVE MEMBER DATA AS OF JUNE 30, 2002 STATE REGULAR										
	Count	Total Annual Benefit	Average Annual Benefit							
Retired										
(Option 0-4) (Option 4 Concurrent Beneficiary)	6,396 1,137	\$ 90,957,022 \$ 4,329,929	\$ 14,221 \$ 3,808							
Disabilities/1122	14	\$ 213,772	\$ 15,269							
Disabilities/3 and 3-A	1,058	\$ 16,218,480	\$ 15,329							
Beneficiaries	1,379	\$ 13,176,996	\$ 9,555							
Pre-Retirement Death Benefits	561	\$ 2,804,904	\$ 5,000							
Terminated Vested	1,002	\$ 8,052,750	\$ 8,037							

MAINE STATE RETIREMENT SYSTEM NON-ACTIVE MEMBER DATA AS OF JUNE 30, 2002 SPECIAL PLANS Total Annual Average Annual Count Benefit Benefit Retired (Option 0-4) 656 \$ 16,009,283 \$ 24,404 (Option 4 Concurrent Beneficiary) 143 \$ 616,091 \$ 4,308 Disabilities/1122 \$ 14,706 3 \$ 44,119 Disabilities/3 and 3-A 21 \$ 375,053 \$ 17,860 Beneficiaries 123 1,471,664 \$ 11,965 Pre-Retirement Death Benefits 3 \$ 41,858 \$ 13,953 Terminated Vested 0 \$ 0 \$ 0

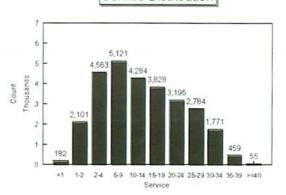
Teachers

					Yea	rs of Service	е					
102	Under 1	1 TO 2	2 TO 4	5 TO 9	10 TO 14	15 TO 19	20 TO 24	25 TO 29	30 TO 34	35 TO 39	40 & UP	Total
Age												
Under 20		2										- :
20 TO 24	35	296	305	24								660
25 TO 29	36	406	963	848	20							2,273
30 TO 34	26	277	616	1,110	638	7						2,674
35 TO 39	16	296	600	573	819	542	8					2,854
40 TO 44	21	289	702	748	597	943	578	9				3,887
45 TO 49	14	213	560	803	780	666	1,094	724	5			4,859
50 TO 54	18	169	432	603	860	882	741	1,418	853	9		5,985
55 TO 59	9	92	233	263	419	561	535	445	792	291		3,640
60 TO 64	5	35	104	89	116	189	192	155	97	144	33	1,159
65 & UP	2	26	48	60	35	38	48	33	24	15	22	351
Total	182	2,101	4,563	5,121	4,284	3,828	3,196	2.784	1,771	459	55	28,344





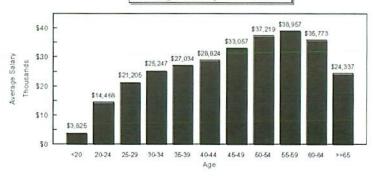
Service Distribution



Teachers

	Average Salary Years of Service											
	Under 1	1 TO 2	2 TO 4	5 TO 9	10 TO 14	15 TO 19	20 TO 24	25 TO 29	30 TO 34	35 TO 39	40 & UP	Total
Age												
Under 20		3,825										\$3,825
20 TO 24	9,879	13,854	15,239	18,931								\$14,468
25 TO 29	13,708	17,193	20,894	23,685	25,921							\$21,205
30 TO 34	11,098	17,419	21,586	26,823	30,003	26,355						\$25,247
35 TO 39	12,059	14,963	18,668	26,355	32,894	35,164	28,953					\$27,034
40 TO 44	9,068	16,187	17,560	23,943	32,226	36,689	39,274	44,333				\$28,824
45 TO 49	12,785	15,976	18,772	24,023	31,883	36,906	41,568	44,357	40,258			\$33,057
50 TO 54	14,853	18,924	21,762	27,086	31,708	36,359	40,399	45,597	46,019	41,083		\$37,219
55 TO 59	6,262	18,900	20,920	29,129	31,244	36,083	40,051	45,576	48,321	48,666		\$38,957
60 TO 64	15,749	14,371	17,545	22,860	27,839	34,722	39,530	42,282	44,324	49,269	51,236	\$35,773
65 & UP	2,873	9,264	7,199	14,009	25,247	30,232	27,112	30,025	43,866	45,784	47,514	\$24,337
Total	\$11,529	\$16,233	\$19,407	\$25,285	\$31,555	\$36,166	\$40,257	\$44,898	\$46,910	\$48,613	\$49,748	\$31,388

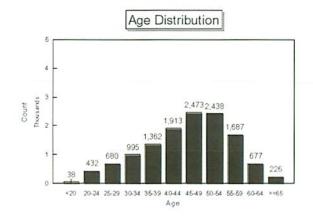
Average Salary Distribution

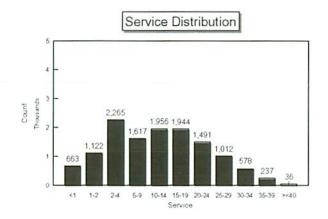




State

					Ye	ars of Servic	e					
120	Under 1	1 TO 2	2 TO 4	5 TO 9	10 TO 14	15 TO 19	20 TO 24	25 TO 29	30 TO 34	35 TO 39	40 & UP	Total
Age												
nder 20	26	12										3
0 TO 24	153	150	123	6								43: 680
5 TO 29	85	183	327	75	10							
0 TO 34	72	146	352	224	180	21						995
5 TO 39	65	149	326	228	328	240	26					1,362
0 TO 44	68	122	333	263	379	411	287	50				1,913
5 TO 49	77	148	324	311	350	438	465	322	38			2,473
0TO 54	58	123	248	240	332	419	329	379	269	41		2,438
5 TO 59	37	63	150	177	219	245	268	181	207	138	2	1,687
0 TO 64	15	16	68	70	125	131	90	48	50	47	17	677
5 & UP	7	10	14	23	33	39	26	32	14	11	17	226
otal	663	1,122	2,265	1.617	1,956	1.944	1,491	1,012	578	237	36	12,921



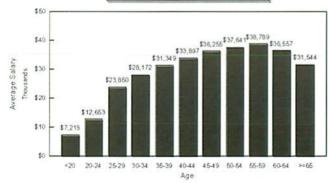




State

Average Salary Years of Service												
50 E	Under 1	1 TO 2	2 TO 4	5 TO 9	10 TO 14	15 TO 19	20 TO 24	25 TO 29	30 TO 34	35 TO 39	40 & UP	Total
Age	estimates	200000000000000000000000000000000000000										
Under 20	7,615	6,358										\$7,218
20 TO 24	8,024	14,862	15,308	21,003								\$12,653
25 TO 29	17,149	22,074	25,914	26,021	29,508							\$23,850
30 TO 34	15,840	25,242	27,159	31,951	32,211	32,882						\$28,172
35 TO 39	18,796	26,717	26,251	33,595	35,788	35,892	35,592					\$31,349
40 TO 44	20,221	24,325	28,016	35,341	35,760	38,305	37,669	35,438				\$33,897
45 TO 49	18,933	27,080	30,475	33,211	38,474	38,468	42,812	38,235	38,316			\$36,255
50 TO 54	18,781	27,121	30,466	34,904	37,440	38,671	42,173	42,409	41,473	40,845		\$37,641
55 TO 59	18,781	27,734	29,213	35,007	36,696	37,146	40,186	44,221	48,479	46,288	41,170	\$38,789
60 TO 64	24,249	29,211	25,846	35,039	35,425	37,082	38,122	41,378	44,107	42,839	46,211	\$36,557
65 & UP	8,652	5,782	14,958	33,569	27,784	28,467	33,776	37,495	43,418	36,584	53,742	\$31,544
Total	\$15,516	\$23,703	\$27,189	\$33,590	\$36,126	\$37,638	\$40,643	\$40,856	\$44,050	\$44,212	\$49,487	\$33,765

Average Salary Distribution



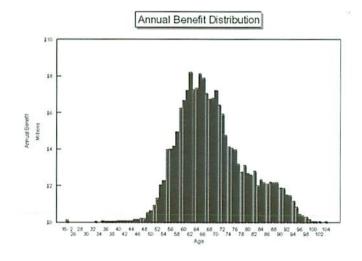


MAINE STATE RETIREMENT SYSTEM DISTRIBUTION OF RETIRES, DISABLED MEMBERS, BENEFICIARIES AND SURVIVORS as of June 30, 2002

Teachers

Age	Count	Annual Benefit	Age	Gount	Annual Benefit
Under 25	30	\$123,736	65	464	\$8,119,527
25	1	1,789	66	444	7,906,443
26	1	7,941	67	414	7,083,070
27	2	11,985	68	435	6,774,071
28	0	0	69	409	6,806,403
29	1	3,498	70	430	7,206,012
30	3	13,972	71	411	6,446,460
31	2	7,889	72	388	5,941,954
32	0	0	73	339	4.739,437
33	6	28,303	74	303	4,132,040
34	1	16,274	75	281	4,031,047
35	5	57,062	76	297	3,981,000
36	5	47,891	77	253	3,192,118
37	4	21,435	78	222	2,744,089
38	5	22,783	79	251	3,115,803
39	3	55,738	80	211	2,670,136
40	6	71,349	81	214	2,609,700
41	5	58,196	82	229	2,792,786
42	8	75,787	83	173	2,009,706
43	8	76,361	84	180	2,328,632
44	7	81,224	85	164	2,158,378
45	12	151,355	86	171	2,080,690
46	10	168,066	87	164	2,191,430
47	15	213,180	88	156	2,138,569
48	16	195,867	89	171	2,155,708
49	28	514,365	90	140	1,893,690
50	38	622,955	91	131	1,851,316
51	63	909,498	92	109	1,507,875
52	85	1,310,664	93	117	1,459,241
53	123	2,044,620	94	83	1,149,435
54	139	2,281,201	95	58	826,575
55	220	3,953,949	96	38	426,579
56	223	3,994,513	97	31	358,552
57	218	4,179,269	98	23	276,731
58	266	4,963,238	99	11	164,652
59	319	6,249,046	100	4	29,059
60	319	6,671,412	101	3	43,466
61	392	7,236,795	102	3	26,060
62	408	8,188,156	103	1	7,295
63	398	7,273,188	104	2 7	29,700
64	403	7,339,115	over 104	7	57,989

Total 11.733 \$184,707,089

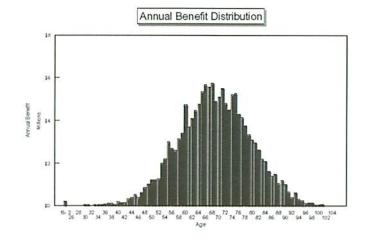




MAINE STATE RETIREMENT SYSTEM DISTRIBUTION OF RETIREES, DISABLED MEMBERS, BENEFICIARIES AND SURVIVORS as of Juno 30, 2002

....

Age	Count	Annual Benefit	Age	Count	Annual Benefit
Under 25	54	\$210,522	65	364	\$5,335,237
25	2	11,748	66	388	5,675,328
26	3	6,555	67	390	5,557,974
27	2	5,640	68	423	5,749,924
28	2	4,939	69	370	4,886,939
29	0	0	70	401	5,094,916
30	4	26,482	71	399	5,492,228
31	5	37,583	72	374	4,816,116
32	1	4,133	73	368	4,489,149
33	8	31,632	7.4	415	5,196,003
34	4	57,149	75	414	5,257,778
35	6	45,784	76	364	4,304,194
36	12	83,500	7.7	363	4,139,628
37	12	106,322	78	342	3,754,675
38	12	121,547	79.	299	3,319,356
39	11	49,379	80	296	3,091,500
40	22	164,186	81	283	2,954,037
41	16	141,023	8.2	258	2,635,130
42	12	145,016	8.3	223	2,191,282
43	21	309,062	84	211	2,101,911
44	32	369,651	85	175	1,628,000
4.5	49	515,824	86	157	1,399,340
46	34	376,167	87	169	1,484,181
47	46	626,699	88	114	1,050,725
48	62	855,241	89	113	1,184,205
49	67	1,015,428	90	110	1,005,915
50	84	1,212,328	91	84	633,237
51	91	1,220,519	92	54	383,958
52	87	1,236,369	93	56	613,253
53	130	1,986,353	94	37	321,793
54	133	2,173,183	95	27	238,973
55	190	3,003,410	96	21	93,392
56	175	2,681,855	97	15	145,956
57	147	2,599,395	98	15	137,689
58	204	3,116,327	99	4	50,758
59	216	3,410,700	100	6	46,618
60	279	4,721,906	101	11	61,678
61	230	3,702,357	102	2	4,563
62	272	4,105,273	103	0	0
63	307	4,465,886	104	0	0
64	331	4,759,556	over 104	4	15,001



Total 11,494 \$146,259,173





Actuarial Assumptions

		State Employees	Teachers
1.	Rate of Investment Return	8.0%	8.0%
2.	Cost-of-Living Increases in Benefits	4.0%	4.0%
3.	Rates of Salary Increase (% at Selected Ages)	Age	State Employees and Teachers
		20 25 30 35 40 45 50 55 60 65	9.5 8.3 7.2 6.7 6.2 5.7 5.5 5.5 5.5

The above rates include a 51/2% across-the-board increase at each age.

Calculations have been adjusted to account for the 5% per year/10% over three-years cap on final pay.

		Age	State Employees Service			Teachers Service		
			0-1	1-2	2+	0-1	1-2	2+
4.	Rates of	20	25.0	17.5	18.8	33.0	24.0	18.8
	Termination	25	25.0	17.5	12.5	27.5	24.0	12.5
	at Select and	30	25.0	17.5	10.0	27.5	24.0	10.4
	Ultimate	35	25.0	17.5	7.5	27.5	24.0	8.3
	Service (% at	40	25.0	17.5	5.0	27.5	24.0	6.1
	Selected	45	25.0	17.5	5.0	27.5	24.0	4.0
	Ages) *	50	25.0	17.5	5.0	27.5	24.0	4.0
		55	20.0	17.5	5.0	27.5	24.0	4.0

^{*} Members with ten or more years of service and whose age plus service totals 60 or more are assumed to elect deferred vested benefits; other terminations are assumed to elect refunds

		Age	Male	Female	Male	Female
5.	Rates of Active	20	5	3	5	3
	Healthy Life	25	7	3	6	3
	Mortality at	30	9	4	7	3
	Selected Ages	35	9	5	8	4
	(number of deaths	40	12	8	10	6
	per 10,000	45	17	10	14	9
	members)*	50	28	15	24	13
		55	48	25	40	21
		60	86	48	73	41
		65	156	93	133	79
		70	255	148	217	125

^{*} For State Regular and Teachers 5% of deaths assumed to arise out of and in the course of employment; for State Special 20% of deaths are assumed to arise out of and in the course of employment.

			State Er	mployees	Tea	chers
		Age	Male	Female	Male	Female
6.	Rates of Inactive	20	5	3	5	2
	Health/Life	25	6	3	6	3
	Mortality at	30	8	5	7	
	Selected Ages	35	11	7	10	4 6
	(number of deaths	40	16	9	14	8
	per 10,000	45	29	14	23	12
	members)	50	53	22	42	18
	.5	55	85	33	71	27
		60	131	55	109	44
		65	213	96	174	77
		70	361	165	292	129
		Age	Male	Female	Male	Female
7.	Rates of Mortality	25	92	72	92	72
	for Future	30	112	89	112	89
	Anticipated	35	134	109	134	109
	Disableds at	40	160	126	160	126
	Selected Ages	45	193	144	193	144
	(number of deaths	50	236	165	236	165
	per 10,000	55	295	191	295	191
	members)	60	362	226	362	226
		65	446	272	446	272
		70	576	331	576	331

			State	e Employees	Teach	iers
8.	Rates of Inactive Disabled Life Mortality at Selected Ages (number of deaths per 10,000 members)	Age 25 30 35 40 45 50 65 70	Male 391 315 321 332 349 376 420 488 595 763	Female 528 467 326 215 191 207 240 288 366 487	Male 391 315 321 332 349 376 420 488 595 763	Female 528 467 326 215 191 207 240 288 366 487
9.	Rates of Retirement at Selected Ages (number retiring per 1,000 members)		Age 45 50 55 59 60 61 62 63 64 65	State Employees* 35 57 150 180 350 350 350 350 350 350	Teachers 25 25 113 183 350 350 350 350 350 350	

^{*} Members of Special Groups are assumed to retire when first eligible for unreduced benefits

1000

1000

70

			State	
		Age	Employees	Teachers
10.	Rates of Disability at	25	6.8	4.6
	Selected Ages (members	30	7.6	5.0
	becoming disabled per	35	10.2	5.0
	10,000 members)**	40	19.0	6.8
		45	27.9	15.5
		50	42.7	24.3
		55	81.0	33.0
		60	119.3	41.8

^{** 10%} assumed to receive Workers Compensation benefits offsetting disability benefit; also, rates for State Special groups are higher by 7 per 10,000 at all ages.

11. Family Composition Assumptions

80% of active members are married and have two children born when the member is 24 and 28; children are dependent until age 18; female spouse is three years younger than male spouse; member has no dependent parents; unmarried members have beneficiaries entitled to benefits worth 80% as much as those of married members' beneficiaries.

Vacation/Sick Leave Credits

For members who had 10 years of service on July 1, 1993, credits for unused vacation and sick leave may be used to increase final average compensation and/or creditable service. In order to reflect this, projected benefits are increased by 1.0% for state employees and 1.3% for teachers.

Actuarial Methods

1. Funding Method

The Entry Age Normal method is used to determine costs. Under this funding method, a total contribution rate is determined which consists of two elements, the normal cost rate and the unfunded actuarial liability (UAL) rate.

For Teachers and State Employees, including each of the State Special Plans, a normal cost rate is determined for a typical new entrant. This rate is determined by taking the value, as of age at entry into the plan, of the member's projected future benefits, reducing it by the value of future member contributions, and dividing it by the value, also as of the member's entry age, of the member's expected future salary.

In addition to contributions required to meet the System's normal cost, contributions are required to fund the System's unfunded actuarial liability. The actuarial liability is defined as the present value of future benefits less the present value of future normal costs and future member contributions. The unfunded actuarial liability is the total of the actuarial liability for all members less the actuarial value of the System's assets. The actuarial liability includes projections of future member pay increases and future service credits and should not be confused with the Accrued Benefit Liability.

The unfunded actuarial liability is amortized by annual payments over an 17 year period from July 1, 2002. The payments are determined so that they will be a level percentage of pay, assuming payroll increases 5.5% per year.

2. Asset Valuation Method

For purposes of this June 30, 2002 actuarial valuation, assets are valued at an "actuarial value" as described in Part II.



APPENDIX C

SUMMARY OF PLAN PROVISIONS

State Employees and Teachers

1. Membership

Membership is a condition of employment for state employees and teachers, and optional for elected and appointed officials.

Membership ceases on the earlier of withdrawal of contributions, retirement, or death.

2. Member Contributions

Except as otherwise described below, members are required to contribute 7.65% of earnable compensation.

Contribution requirements for special groups:

State police, inland fisheries and wildlife officers, and marine resources officers employed before 9/1/84 - 8.65% of earnable compensation for 20 years; 7.65% thereafter.

Forest rangers and state prison employees employed before 9/1/84 – 8.65% of earnable compensation until eligible for retirement; 7.65% thereafter.

1998 Special Plan employees employed after 8/31/84 which include state prison employees, airplane pilots, forest rangers, inland fisheries and wildlife officers, marine resources officers, liquor inspectors and defense, veterans and emergency management firefighters employed at Bangor International Airport – 8.65% of earnable compensation for 25 years; 7.65% thereafter.

State police employed on or after 9/16/84 and special agent investigators hired before 6/21/82 – 8.65% of earnable compensation for 25 years; 7.65% thereafter.

3. Average Final Compensation

For purposes of determining benefits payable under the System, average final compensation is the average annual rate of earnable compensation for the three years of creditable service (not necessarily consecutive) which produce the highest such average.

For compensation paid on or after July 1, 1993, increases in earnable compensation of greater than 5% per year or 10% over the highest three years are not included in calculating average final compensation unless the employer pays the cost of including such compensation.



Earnable compensation does not include sick and vacation pay for those members who had less than 10 years of service at July 1, 1993. For members for whom sick and vacation pay is includible in earnable compensation, these payments are included in applying the caps described in the preceding paragraph.

4. Creditable Service

Creditable service includes service while a member, certain service prior to the establishment of the System, purchased military service credit, other purchased service credit, and service while receiving disability benefits under the System.

Service Retirement Benefits

A. Regular Plan (State Employees and Teachers)

Eligibility for members with at least 10 years of creditable service on July 1, 1993

Normal Retirement Age: 60

Eligibility for members in active service and inactive members: 25 years of creditable service.

Eligibility alternative for members in active service: at least one year of creditable service immediately before retirement and at least normal retirement age.

Eligibility for members not in active service at retirement, and not in active service on or after October 1, 1999: at least 10 years of creditable service and at least normal retirement age.

Eligibility for members not in active service at retirement, but in active service on or after October 1, 1999: at least 5 years of creditable service and at least normal retirement age.

Benefit – 1/50 of average final compensation multiplied by years of membership service up to 25 years of prior service, reduced by approximately 2-1/4% for each year retirement age is less than age 60.

Form of payment – life annuity.



Eligibility for members with less than 10 years of creditable service on July 1, 1993

Normal Retirement Age: 62

Eligibility for members in active service and inactive members: 25 years of creditable service.

Eligibility alternative for members in active service: at least one year of creditable service immediately before retirement age and at least normal retirement age.

Eligibility for members not in active service at retirement, and not in active service on or after October 1, 1999: at least 10 years of creditable service and at least normal retirement age.

Eligibility for members not in active service at retirement, but in active service on or after October 1, 1999: at least 5 years of creditable service and at least normal retirement age.

Benefit – 1/50 of average final compensation multiplied by years of membership service and up to 25 years of prior service, reduced by 6% for each year retirement age is less than age 62.

Form of payment - life annuity.

B. Special Plans (state employees)

State police employed before 9/16/84; inland fisheries and wildlife officers and marine resource officers employed before 9/1/84:

Eligibility – 20 years of creditable service in named positions.

Benefit $-\frac{1}{2}$ of average final compensation plus 2% for each year of service in excess of 20. If greater, the pro-rated portion of the benefit for service before July 1, 1976 is based on annual pay instead of average final pay.

Form of payment – 50% joint and survivor annuity, or life annuity.

Forest rangers employed before 9/1/84:

Eligibility – age 50 with 25 years of creditable service as a forest ranger.

Benefit – $\frac{1}{2}$ of average final compensation plus 2% for each year of service earned after qualification for retirement. If greater, the pro-rated portion of



the benefit for service before July 1, 1976 is based on annual pay instead of average final pay.

Form of payment – life annuity.

Airplane pilots employed before 9/1/84:

Eligibility – age 55 and 25 years of creditable service as an airplane pilot.

Benefit – greater of (1) ½ of average final compensation plus 2% for each year of service earned after qualification for retirement, and (2) if retiring after age 60, the benefit under the general formula.

Form of payment – life annuity.

Liquor inspectors employed before 9/1/84:

Eligibility – age 55 and 25 years of creditable service as a liquor inspector.

Benefit – $\frac{1}{2}$ of average final compensation plus 2% for each year of service earned after qualification for retirement. If greater, the pro-rated portion of the benefit for service before July 1, 1976 is based on annual pay instead of average final pay.

Form of payment - life annuity.

State prison employees employed before 9/1/84:

Eligibility – age 50 and 20 years of creditable service as a prison employee.

Benefit – $\frac{1}{2}$ of average final compensation plus 2% for each year of service earned after qualification for retirement.

Form of payment – life annuity.

1998 Special Plan

1998 entrants: State prison employees, airline pilots, forest rangers and liquor inspectors, employed after 8/31/84; defense, veterans and emergency management firefighters employed on and after 7/1/98.

2001 entrants: Baxter State Park Authority rangers, correctional employees and state fire marshals employed on or after 1/1/2001.

2002 entrants: Capitol security officers.



Eligibility – 10 years of creditable service under the 1998 Special Plan in one or a combination of the covered capacities after June 30, 1998 (1998 entrants) or after December 31, 1999 (2001 entrants), and the attainment of age 55 – OR – 25 years of creditable service in one or a combination of the covered capacities.

Benefit – for service prior to July 1, 1998 (1998 entrants) or prior to January 1, 2001 (2001 entrants), 1/50 of average final compensation multiplied by years of service reduced for retirement before age 60 or 62, except state police and certain prison employee benefits are reduced for retirement before age 55.

-AND-

for service starting on July 1, 1998 (1998 entrants) or on January 1, 2001 (2001 entrants), 1/50 of average final compensation multiplied by years of service reduced for retirement before age 55.

Form of payment – life annuity.

25 & Out Plan

1998 entrants: State police employed on or after 9/16/84 and special agent investigators hired before 6/21/82.

2002 entrants: Inland fisheries and wildlife officers and marine resources officers employed on and after 8/31/84.

Eligibility – 25 years of creditable service in named positions.

Benefit – 1/50 of average final compensation multiplied by years of service.

Form of payment – life annuity.

Members in Special Plans who fail to qualify for special plan benefits can receive regular plan benefits when and as eligible and qualified.

Disability Retirement Benefits other than No Age Benefits

Eligibility – disabled as defined in the MSRS statutes, prior to normal retirement age; employed prior to October 16, 1992 and did not elect No Age Disability Benefits.



Benefit – 66-2/3% of average final compensation, reduced by employment earnings over the specified statutory limit, and to the extent that the benefit, in combination with worker's compensation and Social Security, exceeds 80% of average final compensation.

Form of payment – payment begins on termination of service and ceases on cessation of disability or after five or two years, depending on disability plan, unless the member is unable to engage in any substantially gainful activity; in which case payments cease on the earlier of 10 years following normal retirement age or date the service retirement benefit equals or exceeds the disability benefit.

Conversion to service retirement – during the period of disability average final compensation is increased with cost-of-living adjustments and service is credited. On the date when service benefits reach a level of 66 2/3% of average final compensation or 10 years after the normal retirement date, if earlier, the disability benefit converts to a service retirement benefit based on service and average final compensation at that point.

7. No Age Disability Retirement Benefits

Eligibility – disabled as defined in the MSRS statutes; employed on or after October 16, 1992 or employed prior to October 16, 1992 and elected the provisions of No Age Disability.

Benefit -59% of average final compensation, reduced by employment earnings over the specified statutory limit, and to the extent that the benefit, in combination with worker's compensation and Social Security, exceeds 80% of average final compensation.

Form of payment – payment begins on termination of service and ceases on cessation of disability or after five or two years, depending on disability plan, unless the member is unable to engage in any substantially gainful activity; in which case payments cease on the date the service retirement benefit equals or exceeds the disability benefit.

Conversion to service retirement – during the period of disability average final compensation is increased with cost-of-living adjustments and service is credited. On the date when service benefits reach a level of 59% of average final compensation the disability benefit converts to a service retirement benefit based on service and average final compensation at that point.

8. Pre-Retirement Ordinary Death Benefits

Eligibility – death while active, inactive eligible to retire, or disabled.

Benefit – designated beneficiary, spouse, child(ren), or parents entitled to benefit calculated as if deceased member had retired under Option 2 (see item 12); however, beneficiary may elect survivor benefits payable to a surviving spouse, dependent child(ren), parent, or other designated beneficiaries in monthly amounts varying by status of beneficiary and number of eligible survivors. Otherwise accumulated contributions with interest are payable to designated beneficiary, spouse, child(ren), older parents, or estate.

9. Pre-Retirement Accidental Death Benefits

Eligibility – death while active or disabled resulting from an injury received in the line of duty.

Benefit – if the member leaves no dependent children, 2/3 of the member's average final compensation to the surviving spouse until death.

- if the member is survived by a spouse who has the care of dependent child(ren) of the member, the surviving spouse shall receive an annual sum equal to the member's average final compensation. When there is no longer any dependent child, the surviving spouse shall receive 2/3 of member's average final compensation until death.
- if the member is survived by a spouse who does not have the care of the member's dependent child(ren), the surviving spouse and dependent child(ren) shall share equally an annual sum equal to the member's average final compensation. When there is no longer any dependent child the surviving spouse shall receive 2/3 of member's average final compensation until death.
- if the member leaves no spouse, the dependent child(ren) shall be paid an annual sum equal to the member's average final compensation. Benefits will cease when the last dependent child no longer meets the definition of "dependent child".

10. Refund of Contributions

Eligibility - termination of service without retirement or death.

Benefit – member's accumulated contributions with interest.



11. Cost-of-Living Adjustments

All service and disability retirement and survivor benefits are adjusted each year that there is a percentage change in the Consumer Price Index, based on the Index.

Cost-of-living adjustments are effective September 1 and are applied to all benefits which have been in payment for twelve months. The maximum annual increase or decrease is 4%. Average final compensation used in determining disability benefits for disabled members is similarly adjusted for purposes of determining the recipient's service retirement benefit if and when the recipient moves to service retirement.

Members on service retirement who did not have 10 years of service on July 1, 1993 will not receive a cost-of-living adjustment until 12 months after their normal retirement age.

12. Methods of Payment of Service Retirement Benefits

At retirement, a member who retires with a benefit must choose from the following methods of payment:

Full Benefit: Unadjusted benefit paid for the life of the member only.

Option 1: Cash refund equal to the remaining employee contribution balance, if any, at the date of death (where the employee contribution balance has been reduced each month by the portion of the monthly benefit deemed to be provided by employee contributions.)

Option 2: 100% joint and survivor annuity.

Option 3: 50% joint and survivor annuity.

Option 4: Joint and survivor annuity at any percentage other than those available under Option 2 and Option 3.

Option 5: Designated percentage of the benefit (not less than 51%) payable to the member, with the remaining percentage (the two to equal 100%) payable to a beneficiary (may only be a sole beneficiary) while both are alive. At the death of either, the higher of the two percentages is paid to the survivor for the survivor's life, and the lower-percentage benefit ceases to be paid.

Option 6: 100% joint and survivor annuity with pop-up*.



Option 7: 50% joint and survivor annuity with pop-up*.

Option 8: Option 4 with pop-up*.

* The "pop-up" feature attached to a given Option means that in the case of a beneficiary predeceasing the member, the member's benefit will be revised prospectively to the amount that the benefit would have been had the member selected Full Benefit payment upon retirement.