Public School Retirement System of Missouri

Actuarial Valuation as of June 30, 2009





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October 19, 2009

Board of Trustees Public School Retirement System of Missouri 3210 West Truman Boulevard Jefferson City, MO 65109

Dear Members of the Board:

We are pleased to present this report of the actuarial valuation of the Public School Retirement System of Missouri ("PSRS") as of June 30, 2009.

This valuation provides data on the funding status of PSRS. The results of the valuation show that the current contribution level will no longer fund the current benefits of PSRS within the framework of your funding policy.

This valuation is based on the provisions of PSRS in effect as of June 30, 2009, data on the PSRS membership, and information on the asset value of the trust fund. All member data and asset information were provided by PSRS staff. While certain checks for reasonableness were performed, the data was used unaudited.

The actuarial assumptions and actuarial cost method used in this valuation are the same as those used in the prior actuarial valuation of PSRS, with the exception of the expected interest on member contributions. This assumption was lowered from 6% to 2%.

To the best of our knowledge, this actuarial statement is complete and accurate, and has been prepared in accordance with generally accepted actuarial principles and practice. The undersigned are members of the American Academy of Actuaries (M.A.A.A.), as indicated and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein.

Respectfully submitted,

PricewaterhouseCoopers LLP

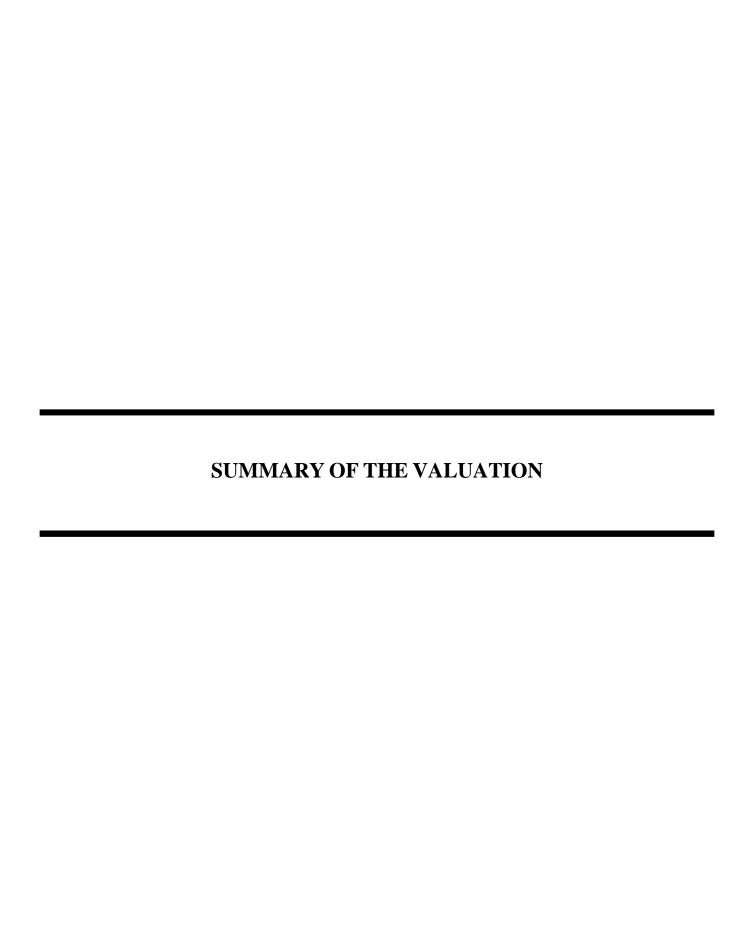
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PURPOSES OF THE ACTUARIAL VALUATION

At your request we have performed the actuarial valuation of the Public School Retirement System of Missouri ("PSRS") as of June 30, 2009.

The purposes of an actuarial valuation are as follows:

- To determine the funding status of PSRS as of the valuation date,
- To determine the contribution rate which would provide for the normal cost of the system plus an amount which will amortize the unfunded actuarial accrued liability over 30 years, and if different, the contribution for the fiscal year ending June 30, 2011, under the statute, and
- To provide accounting and other data required by PSRS.

REPORT HIGHLIGHTS

The key results of the valuation are summarized in the following table and compared to comparable values from the prior valuation report:

		Jur	ne 30, 2008 (\$ in N	ne 30, 2009 ns)
A. Sum	mary of Results			
(1)	Present Value of Future Benefits for:			
	(a) Active Members	\$	24,487.0	\$ 25,466.0
	(b) Retired Members		18,548.6	19,745.1
	(c) Inactive Members and Other Liabilities		444.9	 486.5
	(d) Total	\$	43,480.5	\$ 45,697.6
(2)	Present Value of Future Normal Costs	\$	8,990.0	\$ 9,637.5
(3)	Actuarial Accrued Liability: (1) – (2)	\$	34,490.5	\$ 36,060.1
(4)	Actuarial Value of Assets	\$	28,751.2	\$ 28,826.1
(5)	Unfunded Actuarial Accrued Liability: (3) – (4)	\$	5,739.3	\$ 7,234.0
(6)	Total Contribution Rate, Member + Employer		26.00%	27.00%
(7)	Normal Cost Rate		21.71%	21.84%
(8)	Approximate Rate Available for Unfunded Actuarial			
	Accrued Liability: (6) – (7)		4.29%	5.16%
(9)	30-Year Contribution Rate		28.45%	30.11%
(10)	Recommended Contribution Fiscal Year End 2010 and			
, ,	2011 Based on Statute		27.00%	28.00%

				<u>Jun</u>	ne 30, 2008	<u>Jun</u>	e 30, 2009
R.	Hiol	hliohts	s of Report				
Δ.	(1)	_	narial Accrued Liability Funding Ratio:				
	(1)	(a)	Actuarial Value of Assets (millions)	\$	28,751.2	\$	28,826.1
		(b)	Actuarial Accrued Liability (millions)	Ψ.	34,490.5	4	36,060.1
		(c)	Funding Ratio: (a) / (b)		83.4%		79.9%
	(2)		ve Members:		03.470		17.770
	(2)	(a)	Number:				
		(a)	Male		17,653		17,883
			Female		60,783		61,452
			Total		78,436		79,335
		(b)	Expected Compensation for Fiscal Year (millions):		70,130		77,333
		(0)	Male	\$	1,041.8	\$	1,098.9
			Female	Ψ	3,167.6	Ψ	3,340.5
			Total	\$	4,209.4	\$	4,439.4
		(c)	Average Age:		,	·	,
		(-)	Male		42.1		42.0
			Female		42.3		42.2
			Total		42.2		42.2
		(d)	Average Service:				
		` /	Male		11.1		11.0
			Female		11.0		11.1
			Total		11.1		11.1
		(e)	Average Expected Compensation for Fiscal Year:				
			Male	\$	59,016	\$	61,452
			Female		52,113		54,359
			Total	\$	53,667	\$	55,957
		(f)	Average Amount of Assets per Active Member				
			(based on actuarial value):	\$	124,403	\$	108,883
	(3)	Reti	red Members and Beneficiaries:				
		(a)	Number Service Retired:				
			Life Annuities		19,215		21,229
			Options		18,830		18,730
			Total		38,045		39,959
		(b)	Number Disability Retired:		691		698
		(c)	Number Survivors, Beneficiaries:		3,002		3,245
		(d)	Total Persons Receiving Benefits:		41,738		43,902
		(e)	Average Monthly Pension Being Paid at Valuation				
			Date for New Service Retired, Including Options:	\$	2,945	\$	3,140
		(f)	Average Amount of Assets per Service Retired				
			(based on actuarial value):	\$	444,404	\$	471,349
		(g)	Average Amount of Assets per New Service				
			Retired (based on actuarial value):	\$	549,577	\$	568,743

MEMBERSHIP CHARACTERISTICS

ACTIVE AND INACTIVE MEMBERSHIP

A total of 91,330 active and inactive members of PSRS are included in this 2009 actuarial valuation.

Active members	79,335
Inactive members	<u>11,995</u>
Total active and inactive members	91,330

Between the 2008 and 2009 actuarial valuations, the number of active employees increased by 899 or 1.1%. The average annual salaries of employees increased by 4.3% to \$55,957.

Summary of Changes in Membership

	<u>Male</u>	Female	Total
Active and Inactive Members 7/1/2008	19,797	70,219	90,016
New Membership 7/1/2008 to 6/30/2009	1,423	4,626	6,049
Total Membership Before Decreases	21,220	74,845	96,065
Decreases:			
Service Retirements	603	2,018	2,621
Disability Retirements	5	32	37
Withdrawals	472	1,299	1,771
Deaths	20	36	56
Other Terminations	150	513	663
Previous Memberships Voided	5	6	11
Reciprocity	0	1	1
Total Decreases	1,255	3,905	5,160
Active and Inactive Members 6/30/2009	19,965	70,940	90,905
Additional Members Valued *	96	329	425
Total Valuation Membership at 6/30/2009	20,061	71,269	91,330
(includes Inactive Members)			

^{*} Includes members who had terminated employment but were yet to be cashed out as of the valuation date, less 7 duplicate records.

Benefit Recipients

On June 30, 2009, PSRS was paying benefits to 43,746 retired members, beneficiaries and survivors. In addition, 146 members had benefits that were on hold due to returning to work and 10 members re-retired during the year after having earned an additional retirement benefit. The total headcount for valuation purposes increased 5.2% from 41,738 on June 30, 2008, to 43,902 on June 30, 2009. The June 30, 2009 head count consists of 39,959 service retirees, 698 disability retirees, and 3,245 beneficiaries and survivors.

There are two classes of retired members – members retired because of service and members retired because of disability.

The changes among the retired group of members during the 2008-2009 year were as follows:

	Service <u>Retirements</u>	Disability <u>Retirements</u>	Beneficiaries	Total
Retired Members 7/1/2008	38,045	691	3,002	41,738
Added During Year	2,629	37	287	2,953
Died During Year	(780)	(31)	(108)	(919)
Benefit Take Off Hold and Re-Retirees	20	0	3	23
Benefits Placed On Hold	(17)	(1)	(31)	(49)
Retired Members 6/30/2009	39,897	696	3,153	43,746
Additional Members Valued *	62	2	92	156
Total Retired Members Valued at 6/30/2009	39,959	698	3,245	43,902

^{*} Includes retired members with benefits on hold and re-retirees that earned additional retirement benefits.

As of June 30, 2009, the average monthly benefit payable to service retirees was \$3,166 compared to \$3,010 as of June 30, 2008. These averages and the amounts shown in the tables that follow include all post-retirement benefit increases.

ACTUARIAL ASSUMPTIONS AND METHODS

The actuarial cost methods and assumptions used in this valuation are the same as those disclosed in the actuarial valuation report as of June 30, 2008, with the exception of the expected interest on member contributions. This assumption was lowered from 6% to 2%. The assumptions and methods are described in Appendix E.

EXPERIENCE DURING FY 2008

Overall the system experienced a net actuarial loss of \$1,297.5 million.

The total net actuarial loss for the year ending June 30, 2009, is shown below and is broken out further in Table 22:

		(\$ in millions)
1.	Actuarial (Gain) or Loss on Assets (at actuarial value)	\$ 1,658.3
2.	Actuarial (Gain) or Loss on Liabilities Due to Actual COLA vs. 3.25% expected (0.0% Jan. 2010)	(351.4)
3.	Actuarial (Gain) or Loss on Unfunded Liabilities Due to Reinstated and Purchased Service	60.5
4.	Actuarial (Gain) or Loss on Liabilities Due to Legislative Changes	0.0
5.	Actuarial (Gain) or Loss on Liabilities Due to Salary, Demographic, and Other Experience	(69.9)
6.	Total Actuarial (Gain) or Loss (Sum 1-5)	\$ 1,297.5

For the plan year ending June 30, 2009, the funds experienced an asset loss of \$1,658.3 million; based on actuarial value of assets. The use of the five year smoothing method to determine the actuarial value of assets recognizes 20% of the total gain or loss for each of the preceding five years.

The COLA increase scheduled for January 1, 2010 is less than expected producing a gain of \$351.4 million. The reinstatement of forfeited service generated a liability loss of approximately \$20.2 million. The purchase of service other than reinstated service generated a liability loss of approximately \$40.3 million.

PSRS BENEFITS

A summary of the current benefit provisions appears in Appendix F. There were no changes to the benefit provisions of PSRS during the 2009 session of the Legislature which impact the results of this valuation.

ASSET INFORMATION

The market value of the assets of the fund, which are available for benefits, has decreased from \$27.4 billion at the end of FY 2008 to \$21.6 billion at the end of FY 2009. Due to the smoothing process used in the determination of the actuarial value of assets, the actuarial value of assets remained level at \$28.8 billion. Actuarial value of assets now exceeds the market value by \$7.2 billion.

Based on the actuarial value, the assets of the fund returned about 2.14% which compares to the market value return of -19.55%. The difference is due to the deferral of investment losses from the current year's return and recognition of prior gains deferred under the asset smoothing method.

The detailed determinations of asset values utilized in this valuation and asset growth in the last year are set forth in Appendix B.

FUNDING STATUS

The funding status of PSRS is measured by the Funding Ratio, which is the ratio of the assets available for benefits to a benefit liability measure for the System. While there are several such measures that could be appropriately used, the measure that ties most closely to your funding plan is the Actuarial Accrued Liability ("AAL").

Using the actuarial (smoothed) value of assets, the PSRS actuarial accrued liability funding ratio decreased from 83.5% at June 30, 2007 to 83.4% at June 30, 2008, and decreased to 79.9% as of June 30, 2009. A significant portion of the decrease is due to asset losses.

Using the market value of assets, the PSRS actuarial accrued liability funding ratio decreased from 90.4% at June 30, 2007 to 79.6% at June 30, 2008, and decreased to 59.9% as of June 30, 2009.

GASB DISCLOSURE

PSRS produces its accounting statements under the terms of GASB Statement Number 25. In Table 20, you will find Required Supplemental Information mandated by that statement.

This information is presented in draft form for review by the System's auditor. Please let us know if there are any changes so that we may maintain consistency with the System's financial statements.

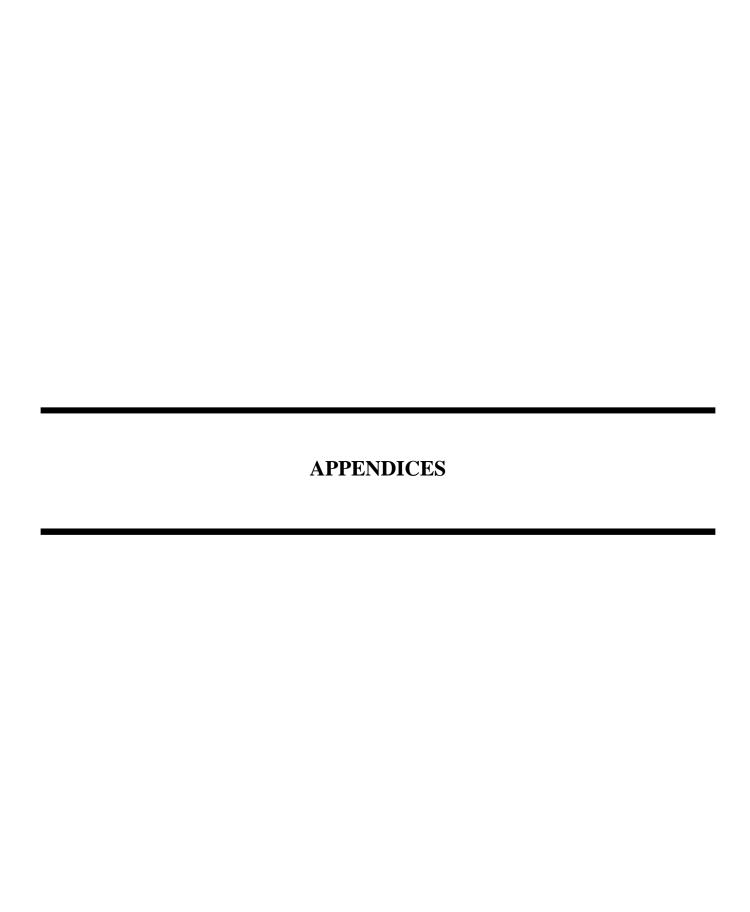
FUNDING PROCESS

In the 2003 session of the Legislature the funding provisions of PSRS were amended. The following changes were adopted:

- 1. The limitation on the total contribution rate (22% of pay) was eliminated.
- 2. Contribution rates will now be established by actuarial valuation.
- 3. The annual increase in the total contribution rate may not exceed 1% of pay.

As a result, the total contribution rate for the 2011 fiscal year may not increase by more than 1% of pay over the rate for the current fiscal year.

In the 2007 session of the Legislature the unfunded actuarial accrued liabilities associated with benefit changes shall be amortized over a twenty-year period. This provision had no impact on the contribution requirements of the plan, which were already limited by the annual increase limitation of 1% of pay established in the 2003 session of the legislature.



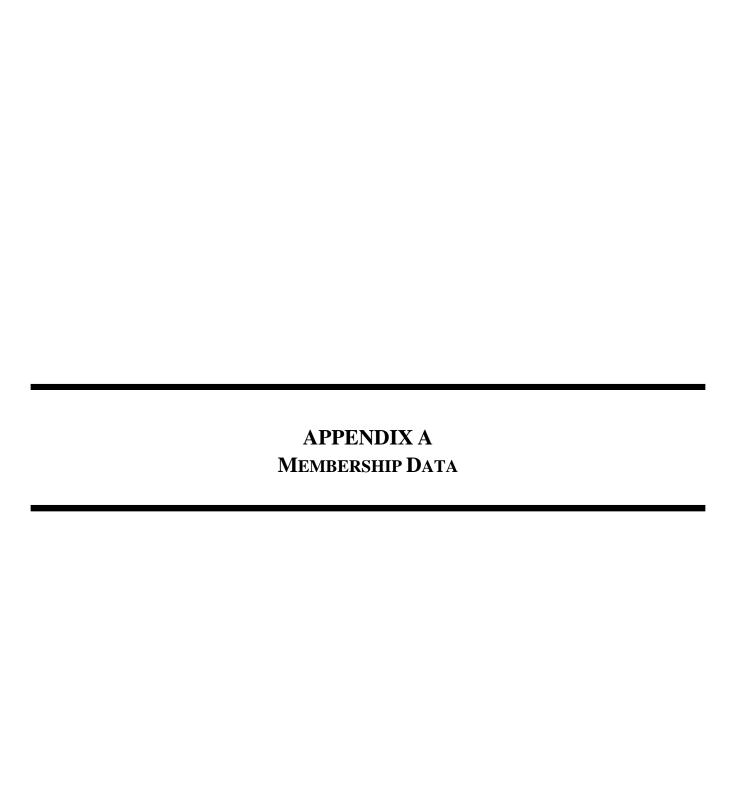


Table 1

Number, Average Age-Service-Salary, and Total Payroll of Active Members Included in Actuarial Valuations

Male

	Actuarial Valuation as of June 30									
Item	<u> </u>	2005		2006		2007		2008		2009
Number		16,876		17,169		17,477		17,653		17,883
Average Age		42.5		42.3		42.2		42.1		42.0
Average Years of Service		11.6		11.5		11.3		11.1		11.0
Average Annual Salary	\$	53,240	\$	55,186	\$	56,842	\$	59,016	\$	61,452
Total Payroll (000's)	\$	898,481	\$	947,484	\$	993,422	\$	1,041,812	\$	1,098,939

Female

	Actuarial Valuation as of June 30									
<u>Item</u>		2005		2006		2007		2008		2009
Number		56,974		58,371		59,644		60,783		61,452
Average Age		42.5		42.4		42.3		42.3		42.2
Average Years of Service		11.3		11.1		11.1		11.0		11.1
Average Annual Salary	\$	46,375	\$	48,453	\$	50,085	\$	52,113	\$	54,359
Total Payroll (000's)	\$ 2	2,642,168	\$	2,828,267	\$	2,987,276	\$	3,167,605	\$	3,340,442

Total

	Actuarial Valuation as of June 30									
<u>Item</u>		2005		2006		2007		2008		2009
Number		73,850		75,540		77,121		78,436		79,335
Average Age		42.5		42.4		42.3		42.2		42.2
Average Years of Service		11.4		11.2		11.1		11.1		11.1
Average Annual Salary	\$	47,944	\$	49,983	\$	51,616	\$	53,667	\$	55,957
Total Payroll (000's)	\$ 3	3,540,649	\$.	3,775,752	\$ 3	3,980,698	\$ 4	,209,417	\$ 4	1,439,381

Table 2

Employee Distribution by Age and Years of Service
June 30, 2009

Years of Service 5-9 0-4 15-19 20-24 10-14 25-29 30 & Over Total Age 0 0 0 20-24 1,610 0 0 0 1,610 25-29 8,385 2,298 0 0 0 0 0 10,683 0 0 30-34 3,846 6,323 1,713 1 0 11,883 2 35-39 2,444 2,772 4,905 1,134 0 0 11,257 40-44 0 1,907 1,981 2,349 3,059 840 1 10,137 45-49 1,538 1,797 911 1,848 1,640 2,451 11 10,196 50-54 1,130 1,373 1,750 1,565 1,502 2,084 876 10,280 55-59 808 1,066 1,426 1,594 1,564 898 1,045 8,401 60-64 472 528 714 749 725 382 405 3,975 65 & Over 139 132 169 132 119 102 120 913 Total 22,279 18,270 9,874 7,203 4,378 2,457 79,335 14,874

Table 3

Salary Distribution

Employees in Active Service
on June 30, 2009

Annual Salary	Number	Percent
Under \$20,000	1,766	2.2%
\$20,000-24,499	916	1.1%
\$25,000-29,999	1,076	1.4%
\$30,000-34,999	3,099	3.9%
\$35,000-39,999	7,429	9.4%
\$40,000-44,999	10,967	13.8%
\$45,000-49,999	11,712	14.8%
\$50,000-54,999	10,220	12.9%
\$55,000-59,999	8,262	10.4%
\$60,000-64,999	6,214	7.8%
\$65,000-69,999	4,517	5.7%
\$70,000-74,999	3,408	4.3%
\$75,000-79,999	2,837	3.6%
\$80,000 & Over	6,912	8.7%
Total	79,335	100.0%

Table 4

Salary Increase Rates by Service Group

Employees in Both 2008 & 2009 Actuarial Valuations

Service in		Percent Increase I	n Average Salary
2008	Number	Expected	Actual
1-4	14,323	8.2%	4.7%
5-9	17,227	7.0%	4.9%
10-14	14,364	5.8%	4.7%
15-19	9,714	5.0%	4.4%
20 & Over	<u>13,972</u>	<u>5.0%</u>	3.8%
Total	69,600	6.5%	4.5%

Table 5

History of System's Growth
Active and Inactive Membership

<u>June 30</u>	<u>Females</u>	Males	<u>Inactives</u>	<u>Total</u>
1985	36,056	18,407	3,005	57,468
1986	36,693	18,221	3,035	57,949
1987	37,639	18,159	3,141	58,939
1988	37,911	16,117	3,537	57,565
1989	39,021	16,177	3,543	58,741
1990	39,802	16,086	3,773	59,661
1991	40,882	16,026	4,067	60,975
1992	41,853	15,858	4,335	62,046
1993	42,825	15,668	4,705	63,198
1994	44,714	15,881	5,009	65,604
1995	46,681	16,173	5,328	68,182
1996	48,184	16,440	5,894	70,518
1997	49,800	16,656	6,373	72,829
1998	51,706	17,003	6,799	75,508
1999	52,895	17,197	7,278	77,370
2000	54,439	17,267	7,739	79,445
2001	55,405	17,283	8,930	81,618
2002	56,320	17,353	9,376	83,049
2003	56,968	17,379	10,331	84,678
2004	56,790	17,007	11,674	85,471
2005	56,974	16,876	11,692	85,542
2006	58,371	17,169	11,753	87,293
2007	59,644	17,477	11,607	88,728
2008	60,783	17,653	11,580	90,016
2009	61,452	17,883	11,995	91,330

Table 6

Pensions in Force on June 30, 2009
by Type and Monthly Amount

Monthly					
Amount	Service	Disability	Beneficiary	Survivor	Total
Less than \$500	1,049	4	110	244	1,407
\$500 - 999	2,085	44	346	472	2,947
\$1,000 - 1,499	2,462	132	415	3	3,012
\$1,500 - 1,999	3,334	210	362	0	3,906
\$2,000 - 2,499	4,416	143	309	0	4,868
\$2,500 - 2,999	5,441	99	300	0	5,840
\$3,000 - 3,499	5,518	46	215	0	5,779
\$3,500 - 3,999	4,863	13	164	0	5,040
\$4,000 - 4,499	3,855	5	116	0	3,976
\$4,500 & Over	6,936	2	<u>189</u>	0	7,127
Total	39,959	698	2,526	719	43,902

Table 7

Pensions in Force on June 30, 2009
by Type and Age

Age	Service	Disability	Beneficiary	Survivor	Total
Under 55	1,048	158	168	351	1,725
55-59	5,822	152	132	48	6,154
60-64	10,161	150	261	80	10,652
65-69	8,117	71	279	50	8,517
70-74	5,245	53	370	62	5,730
75-79	3,908	44	399	44	4,395
80-84	2,700	37	435	38	3,210
85-89	1,623	18	298	22	1,961
90 & Over	<u>1,335</u>	<u>15</u>	<u>184</u>	_24	1,558
Total	39,959	698	2,526	719	43,902

Table 8

Cost of Living Increases to Retired Members
June 30, 2009

Retirement In	First Increase Effective Date	First Percentage Increase	Increases Total Through January 2009	January 2010 Increase	Total Increases Through January 2010	Number of Retired Members at 06/30/2009
1986 & Earlier	Jan. 1990	4.00%	80.00%	0.00%	80.00%	4,429
1987	Jan. 1991	4.00%	75.39%	0.00%	75.39%	745
1988	Jan. 1991 Jan. 1992	4.70%	68.64%	0.00%	68.64%	683
1989	Jan. 1992 Jan. 1993		61.05%	0.00%	61.05%	811
		3.10%				888
1990	Jan. 1994	3.00%	56.23%	0.00%	56.23%	
1991	Jan. 1995	2.50%	51.68%	0.00%	51.68%	1,029
1992	Jan. 1996	3.00%	47.97%	0.00%	47.97%	884
1993	Jan. 1997	2.80%	43.66%	0.00%	43.66%	1,005
1994	Jan. 1998	2.30%	39.73%	0.00%	39.73%	1,202
1995	Jan. 1999	1.70%	36.59%	0.00%	36.59%	1,630
1996	Jan. 2000	2.00%	34.30%	0.00%	34.30%	1,602
1997	Jan. 2001	3.70%	31.68%	0.00%	31.68%	1,838
1998	Jan. 2002	3.30%	26.98%	0.00%	26.98%	2,032
1999-2001 ^a	Jan. 2003	1.10%	22.93%	0.00%	22.93%	6,747
2002 ^b	Jan. 2004	2.10%	21.59%	0.00%	21.59%	2,335
2003	Jan. 2005	3.30%	19.08%	0.00%	19.08%	2,601
2004	Jan. 2006	2.50%	15.29%	0.00%	15.29%	2,428
2005	Jan. 2007	4.30%	12.48%	0.00%	12.48%	2,365
2006	Jan. 2008	2.70%	7.84%	0.00%	7.84%	2,515
2007	Jan. 2009	5.00%	5.00%	0.00%	5.00%	2,714
2008	Jan. 2010	0.00%		0.00%	0.00%	174
2009						<u></u>
Total						40,657

a Includes all retirements in 1999, and, because of legislation in 2000 and 2001, all persons retiring after June 30 of each of those years.

b Includes all retirements in 2002 and, because of legislation in 2000 and 2001, all persons retiring before July 1 of each of those years.

Table 9

Analysis of Retired Membership by Type of Benefit
(Dollar Amounts in Millions)
June 30, 2009

Type of Benefit	Number	Annual Benefit	Total Liability
Service Retirees			
Options 1 & 10 (Life Only)	21,229	762.6	8,616.5
Options 2 & 21 (100% J&S with Pop-Up)	10,485	417.1	5,847.9
Option 3 & 31 (75% J&S with Pop-Up)	2,093	91.0	1,268.6
Option 4 & 41 (50% J&S with Pop-Up)	3,927	163.4	2,131.5
Option 5 (10 Years Certain & Life)	957	36.8	484.7
Option 6 (5 Years Certain & Life)	221	8.5	110.8
Option 20 (100% J&S)	758	27.8	282.7
Option 30 (75% J&S)	24	1.3	15.1
Option 40 (50% J&S)	<u>265</u>	9.5	<u>76.9</u>
Total	39,959	\$1,518.0	\$18,834.7
Disability Retirees	698	\$16.7	\$151.1
Beneficiaries of Retiree Deaths	2,526	\$69.5	\$660.1
Survivors of Active Deaths	719	\$4.5	\$39.1

Note: Excludes retirees returned to teaching and additional deposit annuities.

Table 10

History of System's Growth
Service Retired

June 30	Females	Males	Total Retired	Total Monthly Pensions	Average Monthly Pension	Average New Pension Granted
	1 01114105	1,10100		1 011510115		
1985	11,307	3,227	14,534	\$ 8,153,600	\$ 561.00	\$ 900 Mo.
1986	11,488	3,476	14,964	9,026,630	603.22	994
1987	11,684	3,810	15,494	10,099,084	651.81	1,123
1988	11,857	4,054	15,911	11,202,662	704.08	1,191
1989	12,117	4,345	16,462	12,412,178	753.99	1,142
1990	12,288	4,591	16,879	13,926,237	825.06	1,338
1991	12,500	4,883	17,383	15,535,235	893.70	1,442
1992	12,695	5,208	17,903	17,748,286	991.36	1,555
1993	13,071	5,547	18,618	19,647,453	1,055.29	1,549
1994	13,166	5,797	18,963	21,564,088	1,137.17	1,673
1995	13,343	6,081	19,424	23,563,044	1,213.09	1,898
1996	13,658	6,417	20,275	27,698,314	1,379.74	2,007
1997	14,716	6,424	21,140	31,431,017	1,486.80	2,005
1998	14,805	7,364	22,169	37,876,023	1,708.51	2,300
1999	15,551	7,835	23,386	45,132,257	1,929.88	2,488
2000	16,360	8,399	24,759	51,928,849	2,097.37	2,684
2001	17,584	9,055	26,639	61,434,862	2,306.20	2,775
2002	18,598	9,530	28,128	67,894,473	2,413.77	2,835
2003	19,440	9,983	29,423	73,017,878	2,481.66	2,846
2004	20,592	10,460	31,052	80,173,849	2,581.92	2,973
2005	22,056	10,945	33,001	88,978,551	2,696.24	2,919
2006	23,302	11,329	34,631	96,626,872	2,790.18	2,946
2007	24,534	11,723	36,257	105,963,764	2,922.57	2,995
2008	25,921	12,124	38,045	114,530,602	3,010.40	2,945
2009	27,469	12,490	39,959	126,498,482	3,165.71	3,140

Notes: Excludes retirees returned to teaching. Counts and amounts reported as being paid at valuation date, including options.

Table 11

History of System's Growth
Disability Retired

June 30	Females	Males	Total Retired	tal Monthly Pensions]	Average Monthly Pension	Average New Pension Granted
1985	406	143	549	\$ 291,619	\$	531.18	\$ 834 Mo.
1986	412	139	551	309,378		561.48	916
1987	413	143	556	323,649		582.10	884
1988	400	142	542	339,710		626.77	1,096
1989	394	149	543	362,423		667.45	1,088
1990	396	156	552	394,564		714.79	1,061
1991	402	153	555	420,031		756.81	1,257
1992	391	154	545	449,376		824.54	1,144
1993	400	160	560	484,265		864.76	1,178
1994	392	164	556	511,353		919.70	1,281
1995	395	163	558	533,106		955.39	1,377
1996	407	160	567	605,823		1,068.47	1,424
1997	413	153	566	626,626		1,107.11	1,366
1998	413	148	561	695,710		1,240.12	1,483
1999	424	145	569	776,500		1,364.67	1,740
2000	439	141	580	837,745		1,444.39	1,550
2001	456	140	596	929,492		1,559.55	1,728
2002	461	136	597	965,816		1,617.78	1,846
2003	466	138	604	987,727		1,635.31	1,672
2004	489	141	630	1,062,279		1,686.16	1,849
2005	517	147	664	1,151,931		1,734.84	1,690
2006	527	144	671	1,197,398		1,784.50	2,189
2007	539	144	683	1,259,273		1,843.74	1,704
2008	556	135	691	1,308,987		1,894.34	2,069
2009	565	133	698	1,388,870		1,989.78	2,147

Notes: Excludes retirees returned to teaching. Counts and amounts reported as being paid at valuation date, including options.

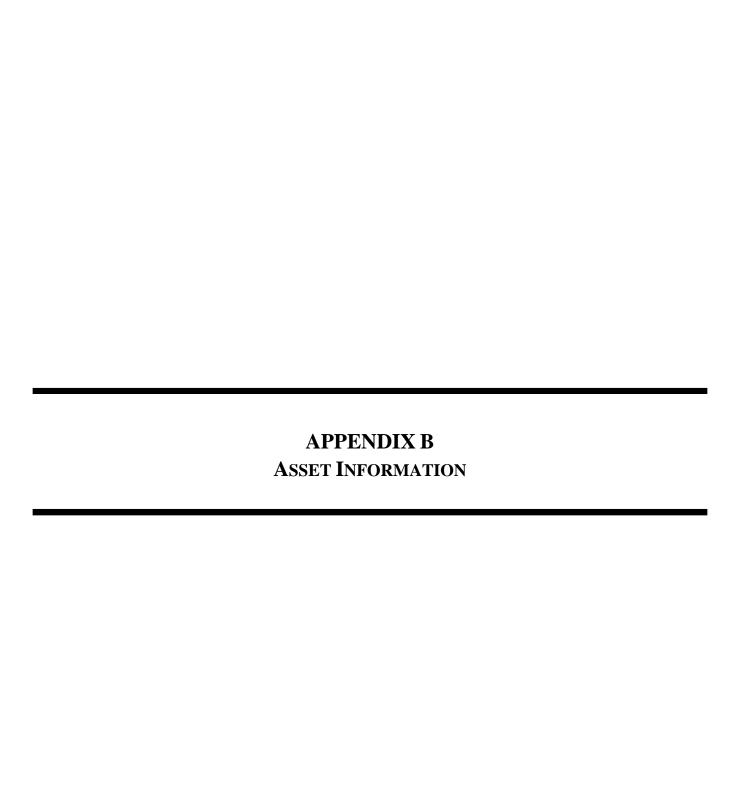


Table 12

Market Value of Assets
Balance Sheet

	June 30, 2008	June 30, 2009
Assets:		
Cash	\$ 47,822,523	\$ 29,732,574
Contribution Receivable	144,084,075	163,499,025
Accrued Interest and Dividends	172,173,582	208,483,117
Investments	27,268,663,326	21,323,595,498
Trades Pending	2,990,103,368	2,267,712,174
Other Assets	733,813	350,768
Capital Assets	13,706,076	12,303,602
Due from PEERS	352,855	525,465
Total	\$ 30,637,639,618	\$ 24,006,202,223
Liabilities:		
Accounts Payable	\$ 15,103,801	\$ 13,317,397
Employer-Pay Liability	655,362	738,736
Interest Payable	44,763,717	304,472
Trades Pending	3,141,968,142	2,319,163,274
Net OPEB Obligation	109,974	217,800
Other Liabilities	0	83,283,140
Due to PEERS	0	0
Total	\$ 3,202,600,996	\$ 2,417,024,819
Net Assets	\$ 27,435,038,622	\$ 21,589,177,404

Table 13

Statement of Revenue and Expenses Market Value Reconciliation For Fiscal Year Ended June 30, 2009

Operating Revenues		Amount	
Contributions:			
Employers	\$	563,454,487	
Members		599,582,276	
Total Contributions		1,163,036,763	
Net Investment Income:			
Interest		152,743,123	
Dividends		253,022,030	
Net Income from Security Lending Activities	_	(3,695,795)	
Total Investment Income		402,069,358	
Investment Return			
Net Capital Appreciation / (Depreciation)		(5,655,263,419)	
Investment Expenses		(48,180,161)	
Total Investment Return		(5,703,443,579)	
Other Income		627,283	
Total Operating Revenues		(4,137,710,175)	
Operating Expenses			
Benefit Payments		1,651,607,586	
Refunds to Members		46,408,252	
Administrative Expenses		10,121,964	
Other Expenses		13,241	
Total Operating Expenses		1,708,151,043	
Excess of Revenues over Expenses		(5,845,861,218)	
Fund Balance, June 30, 2008		27,435,038,622	
Fund Balance, June 30, 2009	\$	21,589,177,404	

Table 14

Growth of Cash Flow
(In Thousands)

Payments During the Year

Year Ending	Contributions	Benefit Payments and Refund of	8		External Cash Flow for the	Covered	Payments as Percent of
June 30	for the Year	Contributions	Expenses	Total	Year	Payroll	Covered Payroll
1987	\$ 264,224	\$ (150,138)	\$ (2,120)	\$ (152,258)	\$ 111,966	\$ 1,429,429	10.7%
1988	293,698	(266,431)	(2,377)	(268,808)	24,890	1,446,485	18.6
1989	309,266	(180,012)	(3,357)	(183,369)	125,897	1,556,775	11.8
1990	328,173	(215,429)	(3,850)	(219,279)	108,894	1,652,719	13.3
1991	345,827	(229,330)	(4,800)	(234,130)	111,697	1,750,191	13.4
1992	359,208	(245,365)	(5,583)	(250,948)	108,260	1,809,458	13.9
1993	370,317	(270,529)	(6,556)	(277,085)	93,232	1,867,948	14.8
1994	397,622	(290,636)	(7,623)	(298,259)	99,363	1,996,908	14.9
1995	433,990	(320,343)	(9,760)	(330,103)	103,887	2,137,134	15.4
1996	488,484	(372,954)	(12,468)	(385,422)	103,062	2,283,994	16.9
1997	516,694	(426,029)	(3,867)	(429,896)	86,798	2,427,429	17.7
1998	562,350	(471,259)	(2,827)	(474,086)	88,264	2,577,594	18.4
1999	589,882	(565,662)	(3,141)	(568,803)	21,079	2,690,007	21.1
2000	624,524	(675,079)	(3,712)	(678,791)	(54,267)	2,836,065	23.9
2001	658,801	(784,938)	(4,009)	(788,947)	(130,146)	2,982,051	26.5
2002	696,685	(892,214)	(4,486)	(896,700)	(200,015)	3,213,461	27.9
2003	734,413	(958,924)	(4,676)	(963,600)	(229,187)	3,373,058	28.6
2004	765,377	(1,060,758)	(5,274)	(1,066,032)	(300,655)	3,408,230	31.3
2005	821,916	(1,186,924)	(5,614)	(1,192,538)	(370,622)	3,540,649	33.7
2006	932,559	(1,297,233)	(6,754)	(1,303,987)	(371,428)	3,775,752	34.5
2007	986,380	(1,424,573)	(7,113)	(1,431,686)	(445,306)	3,980,698	36.0
2008	1,094,052	(1,549,275)	(8,074)	(1,557,349)	(463,297)	4,209,417	37.0
2009	1,163,037	(1,698,016)	(10,135)	(1,708,151)	(545,114)	4,439,381	38.5

Table 15

Development of the Actuarial Value of Assets

1.	Valuation Assets June 30, 2008		\$ 28,751,241,194
2.	Activity for FY 2009 a. Contributions b. Benefits and Expenses c. Net Cash Flow	\$ 1,163,036,763 (1,708,151,043) (545,114,280)	
3.	Expected Returns	2,278,294,724	
4.	Assets Before Allocation of G/L (1+2+3)		30,484,421,638
5.	Actual Returns for 2009	(5,301,374,221)	
6.	Excess Returns for 2009 (5-3)	(7,579,668,945)	
7.	Recognized Excess Returns		
	2009	(1,515,933,789)	
	2008	(706,215,201)	
	2007	431,756,470	
	2006	81,343,214	
	2005	50,702,395	
	Total		(1,658,346,911)
8.	Actuarial Value of Assets June 30, 2008		\$ 28,826,074,727

Table 16
History of System's Reserve Funds

June 30	Accumulated Employee Contributions ¹	General Reserves Contributed by Employers	Total Funds ²
1985	\$ 1,074,474,872	\$ 1,779,172,019	\$ 2,853,646,891
1986	1,199,080,656	2,073,456,154	3,272,536,810
1987	1,333,786,497	2,415,732,721	3,749,519,218
1988	1,427,755,173	2,745,290,213	4,173,045,386
1989	1,605,331,167	3,164,741,308	4,770,072,475
1990	1,780,289,109	3,625,499,691	5,405,788,800
1991	1,983,630,527	4,095,234,736	6,078,865,263
1992	2,191,277,064	4,663,290,911	6,854,567,975
1993	2,384,406,117	5,378,325,303	7,762,731,420
1994	2,616,067,465	6,561,002,730	9,177,070,195
1995	2,856,389,033	7,336,694,489	10,193,083,522
1996	3,098,447,617	8,412,177,685	11,510,625,302
1997	3,312,090,156	9,787,128,615	13,099,218,771
1998	3,541,459,187	11,437,899,111	14,979,358,298
1999	3,765,853,678	13,444,016,205	17,209,869,883
2000	3,976,059,124	15,461,163,652	19,437,222,776
2001	4,129,190,609	17,017,103,699	21,146,294,308
2002	4,354,506,588	17,881,598,628	22,236,105,216
2003	4,687,227,277	15,360,754,260	20,047,981,537
2004	4,954,079,813	16,547,491,808	21,501,571,620
2005	5,119,054,776	17,930,385,726	23,049,440,502
2006	5,453,906,342	19,347,738,123	24,801,644,465
2007	5,820,742,526	21,228,261,912	27,049,004,438
2008	6,174,718,056	22,576,523,138	28,751,241,194
2009	6,299,066,807	22,527,007,920	28,826,074,727

¹ Accumulated employee contributions for active and inactive members only.

² Book Value prior to 1994, five-year average of adjusted market values after 1993.



Table 17

Ten Year Historical Summary
(All Dollar Figures in Thousands)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Active Members	71,706	72,688	73,673	74,347	73,797	73,850	75,540	77,121	78,436	79,335
Retired Members	27,238	29,234	30,865	32,249	34,230	36,321	38,110	39,828	41,738	43,902
Actuarial Assets	\$19,437,223	\$21,146,294	\$22,236,105	\$20,047,982	\$21,501,572	\$23,049,441	\$24,801,644	\$27,049,004	\$28,751,241	\$28,826,075
UAAL	\$ (1,158,110)	\$ 135,909	\$ 1,097,832	\$ 4,671,468	\$ 4,723,688	\$ 4,832,072	\$ 5,235,486	\$ 5,347,718	\$ 5,739,211	\$ 7,234,046
Benefit Payments and Refunds	\$ (675,079)	\$ (784,938)	\$ (892,214)	\$ (958,924)	\$ (1,060,758)	\$ (1,186,924)	\$ (1,297,233)	\$ (1,424,573)	\$ (1,549,275)	\$ (1,698,016)
Accumulated Members' Contributions	\$ 3,976,059	\$ 4,129,191	\$ 4,354,507	\$ 4,687,227	\$ 4,954,080	\$ 5,119,055	\$ 5,453,906	\$ 5,787,667	\$ 6,155,590	\$ 6,299,067
APV of Retirees' Benefits	\$ 7,801,845	\$ 9,504,921	\$10,589,546	\$11,387,543	\$12,625,925	\$13,976,901	\$15,371,279	\$17,059,613	\$18,548,552	\$19,745,129

Table 18

Determination of Normal Cost June 30, 2009 For the 2009 - 2010 Plan Year

	Dollar (mid-year)	Rate ¹
Active Members		
Retirement Benefits	\$ 873,058,787	19.67%
Termination Benefits	73,077,377	1.64%
Death Benefits	12,809,003	0.29%
Disability Benefits	10,596,298	0.24%
Total Normal Cost	\$ 969,541,465	21.84%
Estimated Employee Contributions	599,316,438	
Employer Normal Cost (mid-year) (Total Normal Cost less Employee Contributions)	\$ 370,225,027	

¹ Normal cost rate was determined mid-year using an expected payroll of \$4,439,381,019.

Table 19

Determination of the Unfunded Actuarial Accrued Liability June 30, 2009

A atimog	Members:
Acuves	Members:

Service Retirement	\$ 15,815,169,880
Death Benefits	127,623,237
Disability Benefits	78,441,459
Termination Benefits	(211,082,377)
State Members	18,390,091
Inactives	486,449,783
Total for Active and Inactives Members	\$ 16,314,992,073
Pay Status Members:	
Service Retirees	\$ 18,834,645,011
Disability Retirees	151,098,659
Survivors	699,216,845
Tax-sheltered Annuitants	804,757
Death Benefit	59,363,579
Total for Pay Status Members	\$ 19,745,128,851
Total Actuarial Accrued Liability	\$ 36,060,120,924
Actuarial Value of Assets	\$ 28,826,074,727
Total Unfunded Actuarial Accrued Liability	\$ 7,234,046,197

Table 20

GASB 25 Exhibits Schedule of Funding Progress (\$ in Thousands)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a)/c)
6/30/2000	\$ 19,437,223	\$ 18,279,113	\$ (1,158,110)	106.3%	\$ 2,836,062	-40.8%
6/30/2001	21,146,294	21,282,203	135,909	99.4%	2,982,051	4.6%
6/30/2002	22,236,105	23,333,937	1,097,832	95.3%	3,213,461	34.2%
6/30/2003	20,047,982	24,719,450	4,671,468	81.1%	3,373,058	138.5%
6/30/2004	21,501,572	26,225,259	4,723,687	82.0%	3,408,230	138.6%
6/30/2005	23,049,441	27,881,513	4,832,072	82.7%	3,540,649	136.5%
6/30/2006	24,801,644	30,037,130	5,235,486	82.6%	3,775,752	138.7%
6/30/2007	27,049,004	32,396,723	5,347,719	83.5%	3,980,698	134.3%
6/30/2008	28,751,241	34,490,452	5,739,211	83.4%	4,209,417	136.3%
6/30/2009	28,826,075	36,060,121	7,234,046	79.9%	4,439,381	162.9%

Schedule of Employer Contributions

Actuarial Valuation Date	Annual Required Contribution ¹	Employer Contribution	Percentage Contributed
6/30/2000	\$ 304,944,352	\$ 304,944,352	100.0%
6/30/2001	324,525,673	324,525,673	100.0%
6/30/2002	340,000,556	340,000,556	100.0%
6/30/2003	376,659,713	355,979,027	94.5%
6/30/2004	475,400,520	359,762,556	75.7%
6/30/2005	593,328,374	389,415,997	65.6%
6/30/2006	608,134,319	429,578,911	70.6%
6/30/2007	644,969,214	472,216,630	73.2%
6/30/2008	656,347,298	521,241,501	79.4%
6/30/2009	669,643,988	563,454,487	84.1%

¹ Annual Required Contribution determined by applying the 30-year contribution rate (28.45%), net of the employee contribution rate (13.00%), to the estimated payroll (4,334,265,292) on which contributions were made.

Notes in Trend Data Information:

Valuation Date Actuarial Cost Method Amortization Method Remaining Amortization Period (years) Asset Valuation Method

Actuarial

Investment rate of return Projected salary increases Cost-of-living adjustments

Data 6/30/2009 Entry Age Normal Level Percent, Open 30

5-Year Smoothed Market Marked to Market as of June 30, 2003

> 8.0% 5.0% - 10.25% 3.25%

Table 21

Calculation of Unfunded Actuarial Accrued Liability June 30, 2009

	Amount
(1) Present Value of Future Benefits for:	
Active Members	\$ 25,446,294,314
State Members	19,723,001
Service Retirees	18,834,645,011
Disability Retirees	151,098,659
Tax-sheltered Annuitants	804,757
Survivors	699,216,845
Death Benefits	59,363,579
Inactive Members	486,449,783
Total	45,697,595,949
(2) Present Value of Future Normal Costs	9,637,475,025
(3) Actuarial Accrued Liability ((1)-(2))	36,060,120,924
(4) Actuarial Value of Assets	28,826,074,727
(5) Unfunded Actuarial Accrued Liability ((3)-(4))	\$ 7,234,046,197

Required Contribution Rate & Amortization of Unfunded Liability for the Fiscal Year Ending 2010

	Percentage of Payroll
(1) Total Contribution Rate, Member + Employer	27.00%
(2) Normal Cost Rate ¹	21.84%
(3) Approximate Rate Available for Unfunded Actuarial Accrued Liability ((1)-(2))	5.16%
(4) Benchmark Contribution Rate - Normal Cost Plus a Rate to fund UAAL over 30 Years ²	30.11%

¹ Normal cost rate was determined at mid-year using an expected payroll of \$4,439,381,019.

² Contribution rate to amortize the UAAL was determined using expected payroll of \$4,439,381,019. The benchmark contribution shown here has been adjusted for the 20 year amortization of unfunded liabilities due to changes in the provisions as amended in the 2007 legislative session. This resulted in an increase in UAAL of \$32,833,000 as of June 30, 2007.

Table 22

Analysis of Actuarial Gains and Losses (\$ in 000's)

			Amount		
1.	Unfunded Actuarial Liability as of June 30, 2008	\$	5,739,211		
2.	Normal Cost for 2009 Plan Year		901,180		
3.	Contribution Expected to be Received During Year (30-Year Rate)		(1,233,098)		
4.	Interest to Year End @ 8.00% on 1., 2., and 3.		445,859		
5.	5. Expected Unfunded Actuarial Liability as of June 30, 2009				
6.	6. Contribution Shortfall ¹				
7.	Actuarial (Gain)/Loss During the Year				
	a. From Investment		1,658,347		
	b. From Actuarial Liabilities Due to Actual vs. Expected COLA ¹		(351,397)		
	c. From Unfunded Actuarial Liabilities Due to Reinstated Service		20,266		
	d. From Unfunded Actuarial Liabilities Due to Other Purchased Service		40,281		
	e. From Actuarial Liabilities Due to Legislative Changes		0		
	f. From Actuarial Liabilities Due to Unexpected Salary Changes		(134,346)		
	g. From Actuarial Liabilities Due to Demographic Experience		(4,275)		
	h. From Actuarial Liabilities Due to Other ²		68,613		
	i. Total	\$	1,297,489		
8.	Actual Unfunded Actuarial Liability as of June 30, 2009	\$	7,234,046		

For COLA granted January 1, 2010 (0.00%).
 Includes impact of changing actuaries.

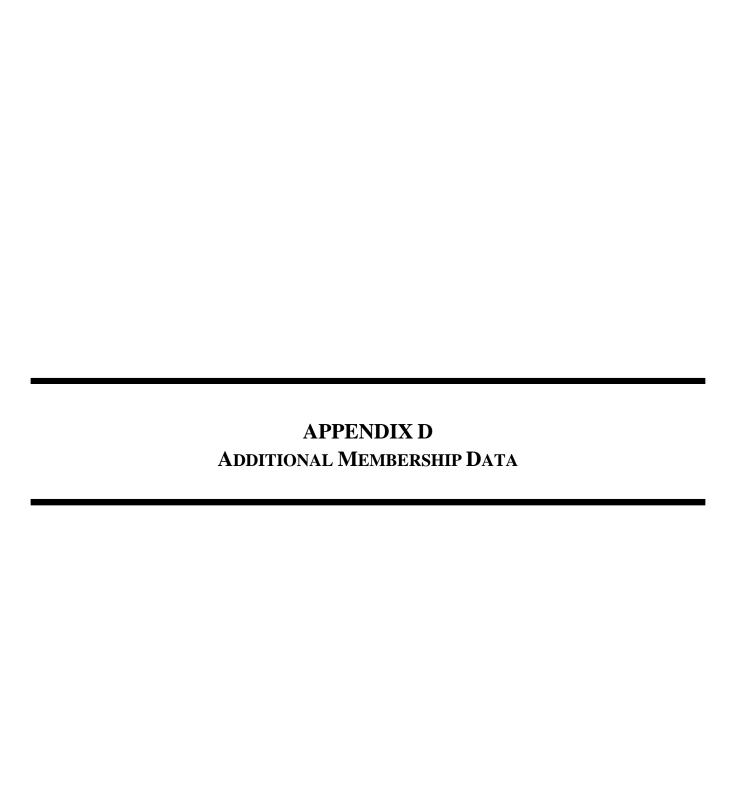


Table 23
Schedule of Active Member Valuation Data

Actuarial Valuation Date	Number of Members	Covered Annual Payroll (000)	Average Annual Salary	% Increase in Average Salary	Average Attained Age	Average Years of Service
6/30/1992	57,711	\$ 1,809,458	\$ 31,354	1.9%	42.2	12.2
6/30/1993	58,493	1,867,948	31,935	1.9%	42.3	12.3
6/30/1994	60,595	1,996,908	32,955	3.2%	42.5	12.3
6/30/1995	62,854	2,137,134	34,002	3.2%	42.5	12.3
6/30/1996	64,624	2,283,994	35,343	3.9%	42.6	12.3
6/30/1997	66,456	2,427,429	36,527	3.3%	42.5	12.1
6/30/1998	68,709	2,577,594	37,514	2.7%	42.5	11.9
6/30/1999	70,092	2,690,353	38,383	2.3%	42.5	11.7
6/30/2000	71,706	2,836,062	39,581	3.1%	42.5	11.6
6/30/2001	72,688	2,982,051	41,025	3.7%	42.4	11.3
6/30/2002	73,673	3,213,461	43,618	6.3%	42.3	11.2
6/30/2003	74,347	3,373,058	45,369	4.0%	42.4	11.3
6/30/2004	73,797	3,408,230	46,184	1.8%	42.5	11.4
6/30/2005	73,850	3,540,649	47,944	3.8%	42.5	11.4
6/30/2006	75,540	3,775,752	49,983	4.3%	42.4	11.2
6/30/2007	77,121	3,980,698	51,616	3.3%	42.3	11.1
6/30/2008	78,436	4,209,417	53,667	4.0%	42.2	11.1
6/30/2009	79,335	4,439,381	55,957	4.3%	42.2	11.1

Table 24
Solvency Test
(\$ in 000's)

Actuarial Accrued Liability

	Actuarial	Member	Current Retirees &	Active & Inactive Members Employer	Net Assets	Percentage of Actuarial Liabilities Covered by Net Assets for:		
_	Valuation Date	Contributions (1)	Beneficiaries (2)	Financed Portion (3)	Available for Benefits	(1)	(2)	(3)
	6/30/1995	2,856,389	3,705,807	4,419,626	10,193,084	100.0%	100.0%	82.2%
	6/30/1996	3,098,448	4,265,851	4,867,447	11,510,625	100.0%	100.0%	85.2%
	6/30/1997	3,312,090	4,553,628	4,583,460	13,099,219	100.0%	100.0%	114.2%
	6/30/1998	3,541,459	5,523,768	5,405,822	14,979,358	100.0%	100.0%	109.4%
	6/30/1999	3,765,854	6,602,915	5,305,210	17,209,870	100.0%	100.0%	129.0%
	6/30/2000	3,976,059	7,801,845	6,501,209	19,437,223	100.0%	100.0%	117.8%
	6/30/2001	4,129,191	9,504,921	7,648,091	21,146,294	100.0%	100.0%	98.2%
	6/30/2002	4,354,507	10,589,546	8,389,885	22,236,105	100.0%	100.0%	86.9%
	6/30/2003	4,687,227	11,387,543	8,644,680	20,047,982	100.0%	100.0%	46.0%
	6/30/2004	4,954,080	12,625,925	8,645,254	21,501,572	100.0%	100.0%	45.4%
	6/30/2005	5,119,055	13,976,901	8,785,557	23,049,441	100.0%	100.0%	45.0%
	6/30/2006	5,453,906	15,371,279	9,211,945	24,801,644	100.0%	100.0%	43.2%
	6/30/2007	5,787,667	17,059,613	9,549,443	27,049,004	100.0%	100.0%	44.0%
	6/30/2008	6,174,718	18,548,552	9,767,182	28,751,241	100.0%	100.0%	41.2%
	6/30/2009	6,299,067	19,745,129	10,015,925	28,826,075	100.0%	100.0%	27.8%

Table 25
Schedule of Retirees and Beneficiaries Added to and Removed From Valuation Head Count

Actuarial		Service Retirees	S	L	Disability Retired	es		Beneficiaries	
Valuation			End			End			End
Date _	Added	Removed	of Year	Added	Removed	of Year	Added	Removed	of Year
6/30/1992	1,119	599	17,903	33	43	545	N/A	N/A	N/A
6/30/1993	1,269	554	18,618	45	30	560	110	63	1,259
6/30/1994	1,021	676	18,963	35	39	556	130	63	1,326
6/30/1995	1,141	680	19,424	34	32	558	152	66	1,412
6/30/1996	1,344	693	20,075	44	35	567	150	72	1,490
6/30/1997	1,797	732	21,140	30	31	566	170	74	1,586
6/30/1998	1,757	728	22,169	27	32	561	187	82	1,691
6/30/1999	1,965	748	23,386	41	33	569	182	82	1,791
6/30/2000	2,136	763	24,759	43	32	580	187	79	1,899
6/30/2001	2,639	759	26,639	45	29	596	189	89	1,999
6/30/2002	2,262	773	28,128	42	41	597	248	107	2,140
6/30/2003	2,078	783	29,423	37	30	604	197	115	2,222
6/30/2004	2,458	829	31,052	54	28	630	482	156	2,548
6/30/2005	2,639	690	33,001	59	25	664	236	128	2,656
6/30/2006	2,441	811	34,631	41	34	671	279	127	2,808
6/30/2007	2,396	770	36,257	41	29	683	241	161	2,888
6/30/2008	2,596	808	38,045	45	37	691	289	175	3,002
6/30/2009	2,711	797	39,959	39	32	698	382	139	3,245

Table 26
Schedule of Retirees by Type
(\$ in 000's)

Actuarial	Service Retirees		Disa	bility	Beneficiaries	
Valuation Date	Number	Benefits	Number	Benefits	Number	Benefits
6/30/1994	18,963	254,957	556	6,102	1,372	10,373
6/30/1995	19,424	281,897	558	6,427	1,412	11,821
6/30/1996	20,075	329,115	567	7,180	1,490	13,403
6/30/1997	21,140	377,172	566	7,520	1,586	15,874
6/30/1998	22,169	454,512	561	8,349	1,691	20,048
6/30/1999	23,386	542,071	569	9,338	1,793	29,625
6/30/2000	24,759	623,827	580	10,088	1,899	30,843
6/30/2001	26,639	737,218	596	11,154	1,999	36,769
6/30/2002	28,128	737,218	597	11,590	2,140	40,743
6/30/2003	29,423	876,196	604	11,853	2,222	43,449
6/30/2004	31,052	962,086	630	12,747	2,548	48,846
6/30/2005	33,001	1,067,743	664	13,823	2,656	54,186
6/30/2006	34,631	1,159,522	671	14,369	2,808	58,240
6/30/2007	36,257	1,271,565	683	15,111	2,888	63,065
6/30/2008	38,045	1,374,367	691	15,708	3,002	66,325
6/30/2009	39,959	1,517,982	698	16,666	3,245	74,047

Average New Retiree Statistics

Actuarial	Regular	% Increase From		Creditable
Valuation Date	Retirement Benefit	Previous Year	Age	Service
6/30/1994	2,096.35	13	58.8	27.8
6/30/1995	2,013.36	(4)	58.7	26.8
6/30/1996	2,182.88	8	56.3	27.8
6/30/1997	2,005.00	(8)	56.4	N/A
6/30/1998	2,300.19	15	57.1	N/A
6/30/1999	2,488.36	8	57.0	N/A
6/30/2000	2,683.72	8	57.0	25.6
6/30/2001	2,775.17	3	56.7	26.5
6/30/2002	2,834.93	2	56.6	26.5
6/30/2003	2,845.98	0	56.8	26.0
6/30/2004	2,973.46	4	56.8	26.2
6/30/2005	2,919.10	(2)	58.0	25.7
6/30/2006	2,945.79	1	58.3	25.4
6/30/2007	2,994.71	2	58.4	25.4
6/30/2008	2,944.63	(2)	58.8	24.5
6/30/2009	3,140.34	7	59.0	25.2



STATEMENT OF FUNDING POLICY

In order to establish long-term, consistent methods in the funding of the System, the Board of Trustees has adopted this statement of its funding policy. The funding of the System shall be carried out in such a way that the burden of paying retirement costs shall be shared equitably by present and succeeding generations of members and taxpayers. To this end, the following principles shall apply:

- The Board of Trustees shall adopt actuarial assumptions, each of which individually represents a reasonable long-term estimate of anticipated experience under the System, derived from experience studies conducted every fifth year.
- 2. The actuarial funding method used shall be the Entry Age Normal Method with normal costs calculated as a percentage of payroll.
- 3. It shall be the general objective to maintain an amortization period of 30 years or less in the funding of the Unfunded Actuarial Accrued Liability. Whenever a change is made in the System's benefit and contribution rate structures, the amortization period for the System after this change should not exceed 30 years initially. The benchmark contribution shown has been adjusted for the 20 year amortization of unfunded liabilities due to changes in benefit provisions as amended in the 2007 legislative session. However, this amendment had no impact on the final contribution rates, which were limited by the annual increase limitation of 1% of pay established in the 2003 session of the legislature.
- 4. If an escalation in future payroll is assumed in determining the amortization payments toward the Unfunded Actuarial Accrued Liability, then the annual rate of such escalation shall not exceed the expected rate of expansion in total System payroll based upon the actuarial assumptions.
- 5. Assets used in the actuarial valuation shall be valued using adjusted market values averaged over a period of five years.
- 6. Annual actuarial valuations shall be made of the System's assets and liabilities. The contribution rate shall be established based on the results of these valuations.

ACTUARIAL ASSUMPTIONS (ADOPTED FOR USE WITH THE JUNE 30, 2006 VALUATION)

Investment Return

It is assumed that investments of the System will return, on average, a yield of 8% per annum compound, net of system expenses (investment and administrative).

Salary and Payroll Increases

Salaries are assumed to increase each year at the rate of 5%. Longevity adjustments are made for those with less than 15 years of service, as follows:

Service	Longevity Adjustment	Total Increase
0	5.25%	10.25%
1	4.25	9.25
2	2.75	7.75
3	2.75	7.75
4	2.75	7.75
5	2.50	7.50
6	2.25	7.25
7	2.00	7.00
8	1.75	6.75
9	1.50	6.50
10	1.25	6.25
11	1.00	6.00
12	0.75	5.75
13	0.50	5.50
14	0.25	5.25
15 & Over	0.00	5.00

Total covered payroll of the entire membership is assumed to increase 5.0% per year in the future.

Mortality Rates

Mortality Rates for non-disabled retirees are based on the 1994 Group Annuity Mortality Table with male ages set back three years and female ages set back three years. Mortality for active members are based on the following percentages of retiree mortality:

Male 70% Female 65%

Illustrative rates per 1,000 members at various ages are as follows:

Service Retired Members, Beneficiaries and Survivors

Age	Male	Female
20	0.430	0.262
30	0.727	0.302
40	0.891	0.551
50	1.899	1.112
60	5.581	2.919
70	18.034	10.764
80	45.171	28.366
90	115.671	84.023
100	268.815	219.655
110	441.935	424.846

Disability Retirees, Male and Female

Age	Rate			
40	24.075			
50	26.175			
60	31.500			
70	44.625			
80	76.650			
90	173.276			
100	507.128			

Withdrawal Rates

Termination of membership prior to eligibility for retirement from all causes other than death, disability or retirement is assumed in accordance with the following illustrative rates per 1,000 members:

Years of Service	Rate
0	190.0
1	105.0
2	85.0
3	73.0
4	62.0
5	52.0
10	23.0
15	12.0
20	5.0

It is assumed that 70% of those leaving after earning 5 years of service leave their contributions in the fund and receive a vested benefit.

Disability Rates

Retirement for disability prior to age 60 is assumed in accordance with the following illustrative rates per 1,000 eligible members:

Age	Rates
30	0.090
35	0.130
40	0.280
45	0.505
50	0.780
55	1.535

Retirement Rates

Retirement is assumed in accordance with the following rates per 1,000 eligible members:

Age	Service							
	$<25^{2}$	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>31+</u>
< 50 ¹		40	40	40	40	40	350	300
50^{1}		40	40	40	40	40	490	300
51 ¹		40	40	40	40	490	350	300
52 ¹		40	40	40	490	240	350	300
53 ¹		40	40	490	240	240	350	300
54 ¹		40	490	240	240	240	350	300
55	25	450	200	200	200	200	350	300
56	25	200	200	200	200	200	350	300
57	25	200	200	200	200	200	350	300
58	25	200	200	200	200	200	350	300
59	25	200	200	200	200	200	350	300
60	200	200	200	200	200	200	350	300
61	200	200	200	200	200	200	350	300
62	200	200	200	200	200	200	350	300
63	200	200	200	200	200	200	350	300
64	200	200	200	200	200	200	350	300
65	300	300	300	300	300	300	350	300
66	200	200	200	200	200	200	350	300
67	200	200	200	200	200	200	350	300
68	200	200	200	200	200	200	350	300
69	200	200	200	200	200	200	350	300
70+	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

Rates for participants whose service is less than 25 who meet the Rule of 80 are 45 percent in the first year of eligibility and 20 percent thereafter.

¹ Rates for members with less than 30 years of service and not eligible for the Rule of 80 are applicable from 1999-2013.

 $^{^{2}}$ Rates for members who are younger than 60 are for early (age reduced) retirement.

Interest on Member Accounts

2% per year.

Service Purchases

Incremental service credits attributable to the purchase of service are not valued until all payments for the purchase of service have been made.

Cost of Living Adjustments

The cost of living adjustment assumed in the valuation is 3.25% per year, and applies to service retirements and beneficiary annuities. The COLA does not apply to the benefits for in-service death payable to spouses (where the spouse is over age 60), and does not apply to the spouse with children pre-retirement death benefit, the dependent children pre-retirement death benefit, nor the dependent parent death benefit. The total lifetime COLA cannot exceed 80% of the original benefit. Future COLAs for current benefit recipients reflect actual cumulative adjustments granted at the time of valuation.

Asset Valuation Method

The Actuarial Value of Assets is based on a five-year average of adjusted market value returns. The actuarial value for a year is computed by taking the actuarial value at June 30 of the prior year, subtracting all expenses (including benefit payments), and adding contributions and expected investment return at 8% of actuarial value of assets. The difference between the actual returns at market value for the year and expected returns is determined. Twenty percent (20%) of that difference is added to the actuarial value along with corresponding amounts from each of the prior four years. The Actuarial Value of Assets was reset to market value at June 30, 2003.

Provisions for Expenses

There is no specific provision for expenses. The implicit assumption is that administrative expenses are paid from investment income in excess of 8% per annum.

Beneficiaries

The percentage of males and females that are assumed to be married or to have eligible dependent beneficiaries varies by age and sex. The following are illustrative of the percentages used:

Age	Male	Female
20	40%	60%
30	84	87
40	87	86
50	85	84
60	79	81

Beneficiaries are assumed to be of the opposite sex from the member. Female beneficiaries are assumed to be 3 years younger than the member, and male beneficiaries are assumed to be 3 years older than the member.

Survivor Benefits

In the active member valuation, the present value for dependent based survivor benefits for children is estimated using an approximation of \$165,000 for active member deaths occurring before age 40.

Benefits for current dependent children are assumed to cease at age 22 if currently under age 22. Current dependent children older than 22 are assumed to continue receiving benefits until death.

Joint and Survivor Election

To recognize the subsidy present in the joint and survivor reduction factors calculated without provision for cost-of-living adjustments, the active member costs resulting from all decrements except disability and refunds were loaded by 0.4%.

Terminations

Thirty percent (30%) of all active members who terminate for reasons other than death, disability or retirement are assumed to take a refund of their member account balance. The other seventy percent (70%) are expected to elect a termination benefit deferred to first unreduced retirement age. The same approach is used to value vested, inactive members.

If the present value of the deferred benefit is less than the member account balance, the value of the member account balance is valued.

Return of Unused Member Account Balance

Under the single life annuity payment option, any unused balance of contributions and interest in the member account balance at the time of death is paid in a lump sum to a designated beneficiary. This benefit is approximated with a 5-year certain benefit.

Missing/Incomplete Data

Members without a date of birth provided are assumed to be 30 years old. Pensionable pay for members who did not earn service during the past year is assumed to be the greater of the current year's salary, the previous year's salary and \$10,000. Pensionable pay for other active members is assumed to be the greater of annualized pay and \$10,000.



MEMBER CONTRIBUTIONS

Half the total PSRS contribution rate. The current total PSRS contribution rate is 27% of pay and may increase 1% each year.

NORMAL (UNREDUCED) RETIREMENT

ELIGIBILITY

Attainment of age 60 with at least five years of Creditable Service, or completion of 30 years of Creditable Service at any age, or age plus Creditable Service is at least 80.

BENEFIT

2.5% of Final Average Salary for each year of Membership Service. Members retiring before July 1, 2013 with at least 31 years of service will receive a benefit based on 2.55%. A year of Prior Service is the equivalent of 0.6 year of Membership Service. A minimum benefit applies for Members with at least 15 years of Creditable Service and varies from \$600/month at 15 years of Creditable Service to \$1,200/month at 30 years of Creditable Service. Benefits are also subject to maximum equal to 100% of the Member's final average salary at the time of retirement.

COMPENSATION

All regular earnings as an employee of a PSRS-covered employer. Compensation or salary includes, but is not limited to, payments for extra duties, overtime payments, career ladder payments, payments for overloads (e.g. extra hours taught) and additional courses, and employer-paid medical, dental and vision insurance premiums for the member.

FINAL AVERAGE SALARY

Average monthly salary over the Member's three highest consecutive years of service. Effective August 28, 2007, the maximum increase in the annual compensation for the final average salary shall not exceed ten percent.

MEMBERSHIP SERVICE

Service while a participating member of PSRS. Service is measured each year in relation to full contract salary for that year.

PRIOR SERVICE

Service in a covered position prior to July 1, 1946.

CREDITABLE SERVICE

Membership service plus any service rendered prior to PSRS inception.

NORMAL FORM OF BENEFIT

Single Life Annuity

Additional options available include joint and survivor (50%, 75%, or 100%), term certain (60 or 120 months) and life thereafter, and partial lump sum option (PLSO).

EARLY (AGE REDUCED) RETIREMENT

ELIGIBILITY

Attainment of age 55 and under age 60 with at least five years of creditable service.

BENEFIT

Normal retirement benefit accrued to the date of early retirement, actuarially reduced from age 60.

SPECIAL NORMAL RETIREMENT – UNDER MODIFIED FORMULA

ELIGIBILITY

Retirement on or before July 1, 2013 at an age under 55 and with at least 25 years of creditable service but not eligible for the Rule of 80.

BENEFIT

Based on a percentage of final average salary per year of creditable service. Percentages are as follows:

Years of Service	Benefit Percentage
25-25.9	2.20%
26-26.9	2.25
27-27.9	2.30
28-28.9	2.35
29-29.9	2.40

POST-RETIREMENT DEATH BENEFIT

Regardless of the form of benefit selected, a lump sum benefit of \$5,000 is paid at the death of the retiree.

COLA ADJUSTMENTS

In any year in which the Board determines that the CPI has increased, the Board may provide for annual increases in the current benefit of up to 5%. For any member retiring on or after July 1, 2001 such adjustments commence in the second January after commencement of benefits. The total of such increases may not exceed 80% of the original benefit for any member.

DISABILITY BENEFITS

DEFINITION OF DISABILITY

Incapacitation for performance of gainful employment after completion of five years of creditable service and before age 60.

BENEFIT

Lifetime benefit equal to 90% of accrued normal retirement benefit. This benefit level is subject to a minimum of 50% salary in the last full year of membership but not greater than the member's accrued normal retirement benefit assuming continuous employment to age 60 at current pay. COLA adjustments similar to those provided retirees are provided on this benefit.

FORM OF BENEFIT

If eligible, surviving designated spouse or dependent child or parent may elect a monthly survivor benefit.

VESTING

ELIGIBILITY

Accrual of five years of creditable service.

BENEFIT

Accrued normal retirement benefit payable at earliest retirement age based on service at date of termination. Benefit is based on formula in effect at commencement of benefit.

DEATH / SURVIVOR BENEFITS

REFUND

Refund of accumulated member contributions with interest.

DEPENDENT BASED SURVIVOR BENEFITS

In lieu of the refund, survivors of a member with at least 2 years of service at death may elect the following survivor benefit package:

- 1. Spouse who was married to the deceased member for at least three years and with no dependent children up to \$860 / month payable after spouse age 60 (immediately if spouse is disabled) and prior to remarriage.
- 2. Spouse with dependent children
 - a. Up to \$860 per month payable to spouse with at least one dependent child under age 18.
 - b. Up to an additional \$430 per month payable for each child under age 18. Benefits continue to the spouse after the child reaches age 18, up to age 24, if the child is a full time student.
 - c. Family maximum \$2,160 per month.
- 3. If no surviving spouse, each eligible child receives up to \$720 per month payable as in 2.b. above, subject to a family maximum of \$2,160.
- 4. If no surviving spouse or children, a benefit of up to \$720 is payable to a dependent parent over age 65, subject to a maximum of \$1,440.

No COLA adjustments apply to this benefit.

RETIREMENT BASED SURVIVOR BENEFITS

In lieu of the benefits described above, if the member has at least 5 years of membership service at date of death, the designated spouse may receive a survivor benefit based on 100% J&S equivalent of the benefit accrued to date of death. The benefit may commence:

- 1. immediately if member is eligible to retire at date of death, or
- 2. at a future retirement date of the deceased member.

The benefit may be reduced for early commencement if the deceased member would not have been eligible for unreduced retirement at that date based on service to date of death.

COLA adjustments similar to those provided retirees are provided on these benefits.