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December 2008

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Public Employees Police & Fire Fund

Actuarial Valuation Report as of July 1, 2008

MERCER

MARSH MERCER KROLL GUY CARPENTER OLIVER WYMAN

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Highlights

This report has been prepared by Mercer for the Public Employees Retirement Association of Minnesota to:

- Present the results of a valuation of the Public Employees Police & Fire Fund as of July 1, 2008.
- Review experience under the Plan for the year ended June 30, 2008.
- Provide reporting and disclosure information for governmental agencies and other interested parties.

Contributions

The following table summarizes important contribution information as described in the "Development of Costs" section.

	Plan Year Ending					
Contributions	June 30, 2009	June 30, 2008**				
Statutory Contributions – Chapter 353 (% of Payroll)*	22.50%	20.50%				
Required Contributions - Chapter 356 (% of Payroll)	28.41%	28.48%				
Sufficiency / (Deficiency)	(5.91%)	(7.98%)				

The contribution deficiency decreased from (7.98%) of pay to (5.91%) of pay. The primary reason for the improvement is the extension of the full funding date to July 1, 2038. However, even when taking into account the scheduled increases in member and employer contribution rates, a significant funding deficiency exists, which, without being addressed, will cause the funding status of this plan to deteriorate in the future.

Without a change in contribution rates, or favorable actuarial experience, the funded status will continue to deteriorate. In addition, as of the date of this report, the assets have experienced significant losses as a result of the turmoil in the financial marketplace this fall. If not reversed, losses will further increase the deficiency.

On the other hand, we would also note that absent any additional losses, the plan has sufficient assets to pay benefits for many years into the future.

The "Plan Assets" section provides detail on the plan assets used for the valuation including a development of the actuarial value of assets. The market value of assets earned (4.9%) for the plan year ending June 30, 2008 compared to an assumed rate of 8.5%. Only 20% of the non-MPRIF asset loss will be recognized in the actuarial value of assets. The remainder will be recognized over the next four years. The actuarial value of assets earned 3.6% for the plan year ending June 30, 2008 as compared to the assumed rate of 8.5%.

Participant reconciliation and statistics are detailed in the "Participant Data" section. The "Actuarial Basis" section includes a summary of plan provisions and actuarial methods and assumptions used for the calculations in this report. The "Plan Accounting" section details the required accounting information for the Plan under GASB Statement No. 25 (as amended by GASB 50).

Changes in actuarial assumptions, methods and plan provisions since the July 1, 2007 valuation are reflected in this report and summarized in the Actuarial Basis section.

- * Statutory contribution rates shown are blended to account for the increase in rates effective January 1.
- ** Provided by the Segal Company.

Principal Valuation Results

A summary of principal valuation results from the current valuation and the prior valuation follows. Any changes in plan provisions, actuarial assumptions or valuation methods and procedures between the two valuations are described after the summary.

	Actuarial Valuation as of						
		July 1, 2008		July 1, 2007**			
Contributions (% of Payroll)							
Statutory – Chapter 353*		22.50%		20.50%			
Required – Chapter 356		28.41%		28.48%			
Sufficiency / (Deficiency)		(5.91%)		(7.98%)			
Funding Ratios (dollars in thousands)							
Accrued Benefit Funding Ratio							
 Current assets (AVA) 	\$	5,233,015	\$	5,198,922			
 Current benefit obligations 		5,755,664		5,502,218			
– Funding ratio		90.92%		94.49%			
Accrued Liability Funding Ratio							
 Current assets (AVA) 	\$	5,233,015	\$	5,198,922			
 Actuarial accrued liability 		5,918,061		5,669,347			
 Funding ratio 		88.42%		91.70%			
Projected Benefit Funding Ratio							
 Current and expected future assets 	\$	6,963,714	\$	6,748,508			
 Current and expected future benefit obligations 		7,617,313		7,354,956			
 Funding ratio 		91.42%		91.75%			
Participant Data							
Active members							
– Number		10,961		10,720			
 Projected annual earnings (000s) 	\$	746,743	\$	699,841			
 Average annual earnings (projected) 	\$	68,127	\$	65,284			
 Average age 		39.3		39.2			
 Average service 		11.4		11.3			
Service retirements		5,068		4,938			
Survivors		1,279		1,291			
Disability retirements		824		803			
Deferred retirements		1,242		1,200			
Terminated other non-vested		877		814			
Total		20,251		19,766			

* Statutory contribution rates shown are blended to account for the increase in rates effective January 1.

** Provided by the Segal Company.

Effects of Changes

The following changes in assumptions or methods were recognized as of July 1, 2008:

- The full funding date is reset to July 1, 2038
- Lower ultimate salary increase rates by 0.50% at all ages.
- Change payroll growth assumption from 6.0% to 4.5%.

The following changes in plan provisions were recognized as of July 1, 2008.

The duty disability benefit increased from 60 percent of the high-five average salary to 60 percent of the high-five salary plus an additional three percent of the high-five for each year of service in excess of 20 years, retroactive to July 1, 2007.

These changes had the following impact on the valuation results:

- The assumption and method changes decreased the actuarial accrued liability by \$47 million and the required contribution by 4.75% of payroll.
- The plan change increased the actuarial accrued liability by \$28 million and the required contribution by .45% of payroll.

The basis for determining benefit increases for benefit recipients was revised since the last valuation as of July 1, 2007. See the Summary of Plan Provisions for detail. This change in plan provisions had no impact on the results in this valuation.

Certification

We have prepared an actuarial valuation of the Public Employees Police & Fire Fund as of July 1, 2008 for the plan year ending June 30, 2009. This report reflects the provisions of the Plan effective July 1, 2008. To the best of our knowledge, this actuarial valuation was performed in accordance with the requirements of Minnesota Statutes, Section 356.215 and the requirements of the Standards of Actuarial Work established by the Minnesota Legislative Commission on Pensions and Retirement.

This report has been prepared exclusively for the Public Employees Retirement Association of Minnesota and the Legislative Commission on Pensions and Retirement to determine the annual required contribution and present accounting results required under GASB Nos. 25 (as amended by GASB 50) and 27. Mercer is not responsible for consequences arising from the use of any elements of this report for any other than their intended purpose. Determinations for other purposes may be significantly different from the results shown in this report.

A valuation report is a snapshot of a plan's estimated financial condition at a particular point in time; it is neither a prediction of a pension plan's future financial condition nor a prediction of a pension plan's ability to pay benefits in the future.

Over time, a plan's total cost will depend on a number of factors, including the amount of benefits it pays, the number of people to whom it pays them, and the amount earned on any assets invested to pay the benefits. These amounts and others are uncertain and unknowable at the valuation date, but are predicted to fall within a reasonable range of possibilities. To prepare this report, *actuarial assumptions*, as described within, are used to select a single scenario from the range of possibilities. The results of that single scenario are included in this report. However, the future is uncertain and the plan's actual experience will differ from those assumptions; these differences may be significant or material. In addition, different assumptions or scenarios may also be within the reasonable range and results based on those assumptions would be different. Actuarial assumptions may also be changed from valuation to valuation based on experience, changes in expectations about the future, and other factors.

Because actual plan experience will differ from the assumptions, decisions about benefit changes, investment policy, funding amounts, benefit security and/or benefit related issues should be made only after careful consideration of alternative future financial conditions and scenarios, and not solely on the basis of a valuation report or reports.

Data

We used and relied on financial data submitted by the Fund without further audit. We have also used and relied on participant data supplied by the Fund; this data would customarily not be verified by the Fund's actuary. We have reviewed the participant data for internal consistency and have no reason to doubt its substantial accuracy. The Fund is solely responsible for the validity and completeness of this information.

Contributions

All costs, liabilities and other factors for the Fund were determined in accordance with generally accepted actuarial principles and procedures, in accordance with the provisions of current federal and state statutes and regulations issued thereunder. The economic assumptions are set in Minnesota Statutes, and the remaining assumptions are adopted by the Legislative Commission on Pensions and Retirement. We believe that these assumptions are reasonable. This report fully and fairly discloses the actuarial position of the Fund on an ongoing basis.

Certification

Professional Qualifications

We are available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate. The undersigned credentialed actuaries meet the Oualification Standards of the American Academy of Actuaries to render the actuarial opinion contained in this report. We are not aware of any direct or material indirect financial interest or relationship, including investments or other services that could create a conflict of interest, that would impair the objectivity of our work.

The information contained in this document (including any attachments) is not intended by Mercer to be used, and it cannot be used, for the purpose of avoiding penalties under the Internal Revenue Code that may be imposed on the taxpayer.

Stephen T. McElhaney, FSA, PA, MAAA Principal

Bonito J. Wust

Bonita J. Wurst, ASA, EA, MAAA Principal

Mercer 333 South 7th Street, Suite 1600 Minneapolis, MN 55402-2427 612 642 8600

 $\frac{12/4/2008}{Date}$

Supplemental Information

The remainder of the report includes information supporting the results presented in the previous sections.

- Plan assets presents information about the plan's assets as reported by the Public Employees Retirement Association of Minnesota and the Minnesota State Board of Investments. The assets represent the portion of total fund liabilities that has been funded.
- Membership data presents and describes the membership data used in the valuation.
- Development of costs shows the liabilities for plan benefits and the derivation of the contribution amount.
- Actuarial basis describes the plan provisions, as well as the methods and assumptions used to value the plan. The valuation is based on the premise that the plan is ongoing.
- Plan accounting under GASB 25 (as amended by GASB 50) shows the disclosures required by GASB Statement No. 25 as amended by GASB Statement No. 50.
- **Glossary** defines the terms used in this report.

Plan Assets

Statement of Plan Net Assets for Year Ended June 30, 2008 (Dollars in Thousands)

	, I	Market Value
Assets in Trust		
 Cash, equivalents, short term securities 	\$	24,122
 Fixed income 		700,779
• Equity		1,811,961
Equity in MPRIF		2,186,173
• Other		421,506
Total assets in trust	\$	5,144,540
Assets Receivable		9,679
Total Assets	\$	5,154,219
Amounts Payable		(4,073)
Due to MPRIF for mortality losses		(39,323)
Net Assets	\$	5,110,823
Net assets held in trust for pension benefits		
 MPRIF reserves 		2,186,173
 Non-MPRIF reserves 		2,924,650
Total assets available for benefits	\$	5,110,823

Plan Assets

Reconciliation of Plan Assets

The following exhibit shows the revenue, expenses and resulting assets of the Fund as reported by the Public Employees Retirement Association and the Minnesota State Board of Investment, for the Plan's Fiscal Year July 1, 2007 to June 30, 2008.

Change in Assets (dollars in thousands)	١	Non-MPRIF Assets		MPRIF Reserve	Market Value	
1. Fund balance at market value at July 1, 2007	\$	3,170,762	\$	2,358,901	\$ 5,529,663	
2. Contributions						
a. Member		58,259		0	58,259	
b. Employer		87,023		0	87,023	
c. Other sources		0		0	0	
d. Total contributions		145,282		0	 145,282	
3. Investment income						
a. Interest and dividends		(145,700)		(113,206)	(258,906)	
b. Investment expenses	_	(4,409)		(3,258)	 (7,667)	
c. Net subtotal	_	(150,109)		(116,464)	 (266,573)	
4. Other		1,028		0	1,028	
5. Total income (2.d. + 3.c. + 4.)	\$	(3,799)	\$	(116,464)	\$ (120,263)	
6. Benefits paid						
a. Annuity benefits		(48,363)		(247,631)	(295,994)	
b. Refunds	_	(1,496)		0	 (1,496)	
c. Total benefits paid		(49,859)		(247,631)	(297,490)	
7. Expenses						
a. Other		(342)		0	(342)	
b. Administrative		(745)		0	 (745)	
c. Total expenses		(1,087)		0	(1,087)	
8. Total disbursements (6.c. + 7.c.)	\$	(50,946)	\$	(247,631)	\$ (298,577)	
9. Other changes in reserves						
a. Annuities awarded		(152,044)		152,044	0	
b. MPRIF mortality loss		(39,323)		39,323	0	
c. Change in assumptions		0	_	0	0	
d. Total other changes	_	(191,367)		191,367	0	
10. Fund balance at market value at June 30, 2008 (1. + 5. + 8. + 9.d.)	\$	2,924,650	\$	2,186,173	\$ 5,110,823	

Plan Assets

Actuarial Asset Value (Dollars in Thousands)

	Ju	une 30, 2008
1. Market value of assets available for benefits	\$	5,110,823
2. Determination of average balance		
a. Non-MPRIF assets available at July 1, 2007		3,170,762
 b. Non-MPRIF assets available at June 30, 2008 (before MPRIF mortality adjustment) 		2,963,973
c. Net investment income for fiscal year ending June 30, 2008		(149,081)
d. Average balance $[a. + b c.]/2$		3,141,908
3. Expected return [8.5% * 2.d.]		267,062
4. Actual return		(149,081)
5. Current year unrecognized asset return $(4 3.)$		(416,143)
6. Unrecognized asset recognized asset returns		
Original % Not Amount Recognized		
a. Year ended June 30, 2008 \$ (416,143) 80%	\$	(332,914)
b. Year ended June 30, 2007 270,763 60%		162,458
c. Year ended June 30, 2006 93,192 40%		37,277
d. Year ended June 30, 2005 54,937 20%		10,987
e. Total unrecognized return	\$	(122,192)
7. Actuarial value at June 30, 2008 (1. – 6.e.)	\$	5,233,015

Distribution of Active Participants

	Years of Service as of June 30, 2008									
Age	0 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25 – 29	30 – 34	40 – 39	40 +	Total
Under 20	6									6
Avg. Earnings	24,880	,								24,880
20 – 24	360									360
Avg. Earnings	39,423									39,423
25 – 29	1,094	307	4							1,402
Avg. Earnings	48,482	60,984	1 57,015							51,226
Avg. Larnings	40,402	00,904	57,015							51,220
30 – 34	573	921	273							1,767
Avg. Earnings	50,433	63,283	66,580							59,625
35 – 39	325	673	1,024	187						2,209
Avg. Earnings	48,805	62,277	68,529	71,830						64,002
40 – 44	160	340	588	647	253					1,988
Avg. Earnings	48,306	61,700	69,348	73,701	77,108					68,751
45 – 49	78	149	283	382	570	208				1,670
Avg. Earnings	50,845	63,385	67,950	73,198	76,016	80,000				72,198
50 – 54	39	62	112	139	250	347	102			1,051
Avg. Earnings	38,910	64,091	65,839	72,298	75,956	79,836	80,923			74,083
						-				
55 – 59	19	41	49	37	74	86	80	9		395
Avg. Earnings	51,072	63,581	60,493	68,268	73,580	77,890	76,793	70,697		70,892
60 - 64	5	18	9	8	18	16	16	7	1	98
Avg. Earnings	39,524	70,381	50,193	66,196	67,346	74,508	79,039	88,577	67,025	69,407
65 – 69		6	1	1		1				12
Avg. Earnings		57,717	56,976	4 66,272		1 18,900				57,272
Avg. Lumingo		07,117	00,070	00,212		10,000				01,212
70 – 75		1		1						2
Avg. Earnings		102,407		47,580						74,994
75+		1								1
Avg. Earnings		53,878								53,878
Total	2,659	2,519	2,340	1,405	1,165	658	198	16	4	10.061
Avg. Earnings	2,659 47,587	2,519 62,600	2,340 68,060	1,405 72,951	75,951	050 79,412	79,102	78,519	1 67,025	10,961 64,200
Avg. Lannings	41,001	02,000	00,000	12,001	10,001	10,412	10,102	10,515	01,020	04,200

Distribution of Service Retirements

			Year	s Retired as	of June 30	, 2008		
Age	<1	1 – 4	5– 9	10 – 14	15 – 19	20 – 24	25+	Total
<50								0
Avg. Benefit								
50 - 54	108	365						473
Avg. Benefit	46,595	43,048						43,858
55 - 59	83	463	519	1				1,066
Avg. Benefit	42,928	47,537	42,478	37,809				44,706
60 – 64	13	135	660	266				1,074
Avg. Benefit	35,319	39,451	46,632	43,829				44,898
65 - 69	1	30	179	575	75			860
Avg. Benefit	48,783	23,382	40,111	53,534	40,121			48,513
70 – 74	1	. 6	49	266	264	4		590
Avg. Benefit	44,014	37,620	26,270	52,060	46,124	35,257		46,987
75 – 79		2	6	140	188	128		464
Avg. Benefit		17,648	27,265	47,200	45,938	48,661		46,707
80 – 84				101	140	59	39	339
Avg. Benefit				49,373	45,318	38,856	44,871	45,350
85 – 89				19	54	28	48	149
Avg. Benefit				47,363	46,832	38,003	32,922	40,759
90+				11	22	3	17	53
Avg. Benefit				45,807	47,256	39,833	31,814	41,582
Total	206	1,001	1,413	1,379	743	222	104	5,068'
Avg. Benefit	44,404	43,967	43,492	50,272	45,404	44,350	37,221	45,657

* Difference from number of retirees shown on page 15 is due to multiple payees of one member (ex-spouse, child support, etc.).

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Distribution of Survivors

	Years Since Death as of June 30, 2008									
Age	<1	1 – 4	5– 9	10 – 14	15 – 19	20 - 24	25+	Total		
<45	4	23	9	8	2			46		
Avg. Benefit	33,998	38,597	34,758	32,805	21,995			35,717		
45 - 49	5	7	2	1	2	3		20		
Avg. Benefit	40,075	32,383	37,687	55,530	48,691	27,912		36,954		
50 - 54	4	19	10	10	6	2		51		
Avg. Benefit	24,583	30,279	29,899	37,858	37,831	24,037		31,888		
55 - 59	4	18	15	8	12	6	2	65		
Avg. Benefit	35,014	28,543	27,341	44,133	35,075	32,882	26,893	32,138		
60 - 64	9	31	29	25	12	7	6	119		
Avg. Benefit	23,712	26,817	30,278	35,221	27,061	26,188	28,642	29,271		
65 - 69	8	20	38	28	15	4	6	119		
Avg. Benefit	24,178	29,614	30,532	28,152	30,044	34,518	29,368	29,404		
70 – 74	6	34	30	37	16	8	10	141		
Avg. Benefit	25,899	30,479	27,826	28,321	31,026	32,577	28,650	29,205		
75 – 79	8	46	39	58	39	10	16	216		
Avg. Benefit	20,967	31,694	23,612	25,847	26,070	29,759	19,771	26,279		
80 – 84	7	42	44	74	38	17	21	243		
Avg. Benefit	24,468	19,118	24,842	23,674	26,680	24,752	18,055	23,181		
85 - 89	5	28	24	52	23	16	15	163		
Avg. Benefit	25,702	22,901	18,077	23,189	24,835	23,276	16,019	22,045		
90+	1	. 5	17	28	21	11	13	96		
Avg. Benefit	11,725	17,117	20,308	24,587	21,872	18,492	12,441	20,369		
Total	61	273	257	329	186	84	89	1,279*		
Avg. Benefit	26,496	28,026	26,317	27,087	27,538	26,254	20,066	26,627		

* Excludes multiple survivors of members when family maximum benefit is reached.

Distribution of Disability Retirements

			Years	Disabled as	s of June 30), 2008		
Age	<1	1 – 4	5– 9	10 – 14	15 – 19	20 – 24	25+	Total
<45	10	55	26	11	1			103
Avg. Benefit	38,423	31,504	28,259	29,884	36,464			31,232
45 - 49	7	37	42	10	4			100
Avg. Benefit	43,243	35,545	33,672	37,245	35,503			35,466
50 - 54	7	68	66	20	4	4		169
Avg. Benefit	49,678	44,582	37,194	40,167	37,199	30,545		40,879
55 - 59	2	54	113	34	3	1		207
Avg. Benefit	28,280	45,275	48,286	45,935	34,828	36,117		46,667
60 - 64	1	· 19	82	64	5			171
Avg. Benefit	1,811	40,203	51,117	56,450	45,268			51,470
65 – 69		2	14	42	4			62
Avg. Benefit		23,237	38,763	51,966	38,074			47,162
70 – 74			3	7				10
Avg. Benefit			26,101	42,356				37,479
75 – 79				2				2
Avg. Benefit				24,941				24,941
80 - 84								0
Avg. Benefit								
85 – 89								0
Avg. Benefit								
90+								0
Avg. Benefit								
Total	27	235	346	190	21	5	0	824
Avg. Benefit	40,483	39,772	42,999	48,463	38,590	31,659		43,061

Reconciliation of Members*

		Term	inated	Recipients			
	Actives	Deferred Retirement	Other Non-vested	Service Retirements	Disability Retirements	Survivors	Total
Members on 7/1/2007	10,720	1,200	814	4,938	803	1,291	19,766
New entrants	641	0	0	0	0	0	641
Return to active	50	(33)	(17)	0	0	0	. 0
Terminated non-vested	(65)	0	106	0	0	0	41
Service retirements	(193)	(44)	0	250	(7)	0	6
Terminated deferred	(124)	135	0	0	0	0	11
Terminated refund	(25)	0	(27)	0	0	0	(52)
Deaths	(7)	(4)	(2)	(109)	(11)	(71)	(204)
New beneficiary	0	0	0	0	0	73	73
Disabled	(36)	(8)	0	0	41	0	(3)
Benefits expired	0	0	0	0	0	0	0
Data correction	0	(4)	5	0	(2)	(2)	(3)
Net change	241	42	65	141	21	0	510
Members on 6/30/2008	10,961	1,242	879	5,079	824	1,291	20,276

* Provided by PERA and checked for reasonableness.

Development of Costs

Actuarial Valuation Balance Sheet (Dollars in Thousands)

The actuarial balance sheet is based on the fundamental equation that at any given time the present value of benefits to be paid in the future must be equal to the assets on hand plus the present value of future contributions to be received. The total rate of contribution is determined as that amount which will make the total present and potential assets balance with the total present value of future benefits. The members' rate of contribution is fixed at the current schedule of compensation. The Employer's rate of contribution is the balance required to cover the total rate of contribution.

The contributions made in excess of amounts required for current benefit payments are accumulated as a reserve to help meet benefit payments in later years. It is this reserve system which permits the establishment of a level rate of contribution each year

						J	une 30, 2008
A.	Actuarial Value of Assets					\$	5,233,015
В.	Expected future assets						
	1. Present value of expected future statutory supple		al contributi	ons		\$	31,448
	2. Present value of future normal cost contributions	S					1,699,251
	3. Total expected future assets $(1. + 2.)$					\$_	1,730,699
C.	Total current and expected future assets $(A. + B.3.)$					\$	6,963,714
		No	on-Vested		Vested		Total
D.	Current benefit obligations						
	1. Benefit recipients						
	a. Service requirements	\$	0	\$	2,518,179	\$	2,518,179
	b. Disability		0		418,520		418,520
	c. Survivors		0		313,500		313,500
	2. Deferred retirements with augmentation		0		261,671		261,671
	3. Former members without vested rights		0		1,221		1,221
	4. Active Members	_	30,726		2,211,847		2,242,573
	5. Total Current Benefit Obligations	\$	30,726	\$	5,724,938	\$	5,755,664
E.	Expected Future Benefit Obligations						1,861,649
F.	Total Current and Expected Future Benefit						
	Obligations					\$	7,617,313
G.	Current Unfunded Benefit Obligations (D.5. $- A$.)					\$	522,649
H.	Current and Future Unfunded Benefit Obligations $(F C.)$					\$	653,599

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Development of Costs

Determination of Unfunded Actuarial Accrued Liability and Supplemental

Contribution Rate (Dollars in Thousands)

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	Value	arial Present of Projected Benefits	Va	uarial Present lue of Future ormal Costs		Actuarial Accrued Liability
A. Determination of Actuarial Accrued Liability (AAL)						
1. Active Members						
a. Retirement annuities	\$	3,417,949	\$	1,250,258	\$	2,167,691
b. Disability benefits		435,701		267,234		168,467
c. Survivor's benefits		103,980		62,738		41,242
d. Deferred retirements		146,592		119,022		27,570
e. Total	\$	4,104,222	\$	1,699,252	\$	2,404,970
2. Deferred retirements with future augmentation		261,671		0		261,671
3. Former members without vested rights		1,221		0		1,221
4. Annuitants in MPRIF		2,697,406		0		2,697,406
5. Recipients not in MPRIF		552,793		0		552,793
6. Total	\$	7,617,313	\$	1,699,252	\$	5,918,061
B. Determination of Unfunded Actuarial Accrued Liabilit	y (UA/	AL)				
1. Actuarial accrued liability					\$	5,918,061
2. Current assets						5,233,015
3. Unfunded actuarial accrued liability					\$	685,046
C. Determination of Supplemental Contribution Rate						
1. Present value of future payrolls through the amortization date of July 1, 2038					\$	13,103,118
2. Supplemental contribution rate (B.3. / C.1.)					•	5.23%

Development of Costs

Changes in Unfunded Actuarial Accrued Liability (UAAL) (Dollars in Thousands)

			Year Ending June 30, 2008
A.	Unfunded actuarial accrued liability at beginning of year	\$	470,425
B.	Changes due to interest requirements and current rate of funding		
	1. Normal cost and actual administrative expenses	\$	156,074
	2. Contributions		(145,282)
	3. Interest on A., B.1. and B.2.		40,445
	4. Total $(B.1. + B.2. + B.3.)$	\$	51,237
C.	Expected unfunded actuarial accrued liability at end of year (A. $+ B.4.$)		521,662
D.	Increase (decrease) due to actuarial losses (gains) because of experience deviations from expected		
	1. Salary increases	\$	(28,253)
	2. Investment return		249,139
	3. MPRIF Mortality		39,323
	4. Mortality of other benefit recipients		1,899
	5. Other items*		(79,796)
	6. Total	\$	182,312
E.	Unfunded actuarial accrued liability at end of year before plan amendments and	•	
	changes in actuarial assumptions $(C. + D.6.)$	\$	703,974
F.	Change in unfunded actuarial accrued liability due to changes in plan provisions	\$	28,204
G.	Change in unfunded actuarial accrued liability due to changes in actuarial assumptions	\$	(47,132)
H.	Unfunded actuarial accrued liability at end of year (E. + F. + G.)	\$	685,046

* Approximately \$50 million of the liability gain is attributable to differences in the way the Segal Company's and Mercer's valuation systems apply the actuarial cost method.

Development of Costs

Determination of Contribution Sufficiency/(Deficiency) (Dollars in Thousands)

		cent of ayroll	Dollar Amount
A. Statutory contributions – Chapter 35	3*		
1. Employee contributions		9.00%	\$ 67,207
2. Employer contributions	,	13.50%	100,810
3. Total		22.50%	\$ 168,017
 Required contributions – Chapter 35 	6		
1. Normal cost			
a. Retirement benefits		16.93%	\$ 126,430
b. Disability benefits		3.75%	28,02
c. Survivors		0.89%	6,61
d. Deferred retirement benefits		1.50%	11,20
e. Total		23.07%	\$ 172,273
2. Supplemental contribution amort Unfunded Actuarial Accrued Lia			
a. Due to unfunded MPRIF liabil	ity	3.90%	\$ 29,12
b. Due to unfunded non-MPRIF l	iability	1.33%	9,93
c. Total supplemental contributio	n amortization	5.23%	\$ 39,05
3. Allowance for expenses		0.11%	\$ 82
4. Total		28.41%	\$ 212,14
. Contribution Sufficiency/(Deficiency	y) (A.3. – B.4.)	(5.91%)	\$ (44,132

Note: Projected annual payroll for fiscal year beginning on the valuation date: \$746,743.

* Statutory contribution rates shown are blended to account for the increase in rates effective January 1.

Actuarial Cost Method

Liabilities and contributions in this report are computed using the Individual Entry Age Normal Cost Method. This method is prescribed by Minnesota Statutes.

The objective under this method is to fund each participants' benefits under the Plan as payments which are level as a percentage of salary, starting at original participation date (or employment date), and continuing until the assumed retirement termination, disability or death.

At the time the funding method is introduced, there will be a liability which represents the contributions which would have been accumulated if this method of funding had always been used. The difference between this liability and the assets (if any) which are held in the fund is the unfunded liability which is typically funded over a chosen period in accordance with the amortization schedule.

A detailed description of the calculation follows:

The normal costs for each active participant under the assumed retirement age is determined by applying to earnings the level percentage of salary which, if contributed each year from date of entry into the Plan until the assumed retirement (termination, disability or death) date, is sufficient to provide the full value of the benefits expected to be payable.

- The present value of present value of future normal costs is the total of the discounted values of all active
 participants' normal cost, assuming these to be paid in each case from the valuation date until retirement
 (termination, disability or death) date.
- The present value of projected benefits is calculated as the value of all benefit payments expected to be paid to the Plan's current participants, including active and retired members, beneficiaries, and terminated members with vested rights.
- The accrued liability is the excess of the present value of projected benefits over the present value of future normal cost.
- The unfunded liability is the excess of the accrued liability over the assets of the fund, and represents that part of the accrued liability which has not been funded by accumulated past contributions.

Asset Valuation Method

MPRIF Reserve: Market Value

Non-MPRIF Assets: The assets are valued based on a five-year moving average of expected and market values (five-year average actuarial value) determined as follows:

- At the end of each plan year, an average asset value is calculated as the average of the market asset value at the beginning and end of the fiscal year net of investment income for the fiscal year;
- The investment gain or (loss) is taken as the excess of actual investment income over the expected investment income based on the average asset value as calculated above;
- The investment gain or (loss) so determined is recognized over five years at 20% per year;
- The asset value is the sum of the expected asset value plus the scheduled recognition of investment gains or (losses) during the current and the preceding four plan years.

Payment on the Unfunded Actuarial Accrued Liability

A level percentage of payroll each year to the statutory amortization date of July 1, 2038 (July 1, 2020 last year) assuming payroll increases of 4.50% per annum (6.00% last year). If there is a negative Unfunded Actuarial Accrued Liability, the surplus amount shall be amortized over 30 years as a level percentage of payroll.

Summary of Actuarial Assumptions

The following assumptions were used in valuing the liabilities and benefits under the plan.

Investment return:	-	ed annually post-retired annually pre-retire	
Benefit increases after retirement	Payment of bene retirement assum		irement accounted for by using a 6.00% post-
Salary increases			with new hires annualized, increased to current re year according to the ultimate rate table
Mortality			
Healthy pre-retirement			ales set back six years males set back six years
Healthy post-retirement	-		ales set back one year males set back one year
Disabled	and the Healthy		es 41 to 59, graded rates between 1965 RRB rtality Table. For ages 60 and later, the Healthy
Retirement	Age related table	e as follows:	
	Ages:	50-54	10%
		55	30%
		56-59	20%
		60-61	25%
		62-64	35%
		65-69	50%
		70 & Over	100%
Withdrawal		-	an experience. Ultimate rates after the third ct rates are 3.50% per year on each of the
Disability	Rates are shown	in rate table.	
Allowance for Combined Service Annuity			creased by 30.00% to account for the effect of or a Combined Service Annuity.
Expenses	Prior year administrative expenses expressed as percentage of prior year payroll.		
Refund of contributions		the larger of their con	oming eligible for a deferred benefit are ntributions accumulated with interest or the
Percentage married	85% of male me	mbers and 65% of fe	male members are assumed to be married.
Age of spouse	Female members	s are assumed to be fe	our years younger than males.
Eligible children	Members are ass	umed to have no chil	ldren.

Summary of Actuarial Assumptions (continued)

Form of payment	Married members ass follows:	umed to elect sub	sidized joint and survivor form of annuity a	
		Males	<u>Females</u>	
	50% J&S option	40.00%	15.00%	
	100% J&S option	45.00%	15.00%	
Changes in actuarial assumptions		The following changes were recognized as of July 1, 2008:The full funding date is reset to July 1, 2038.		
 Lower ultimate salary increase rates by 0.50% at all ages. 			by 0.50% at all ages.	
	 Change payroll gro 	wth assumption f	from 6.0% to 4.5%.	
	B- P B			

Summary of Actuarial Assumptions (continued)

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Summary of Rates

		Rate (%)		
Pre-Retirem	ent Mortality	Ultimate Withdrawal	Disability	Ultimate Salary Increase
Males	Females			
0.03%	0.01%	6.01%	0.11%	11.00%
0.04	0.02	3.24	0.13	9.00
0.04	0.02	1.90	0.16	7.50
0.06	0.03	1.46	0.19	6.50
0.08	0.04	1.26	0.29	5.50
0.11	0.06	0.91	0.54	5.00
0.19	0.09	0.50	1.04	4.75
0.35	0.15	0.11	2.03	4.75
0.57	0.23	0.00	0.00	4.75
0.84	0.38	0.00	0.00	4.75
1.39	0.64	0.00	0.00	4.75
	Males 0.03% 0.04 0.04 0.06 0.08 0.11 0.19 0.35 0.57 0.84	0.03% 0.01% 0.04 0.02 0.04 0.02 0.06 0.03 0.08 0.04 0.11 0.06 0.19 0.09 0.35 0.15 0.57 0.23 0.84 0.38	Pre-Retirement MortalityUltimate WithdrawalMalesFemales0.03%0.01%6.01%0.040.023.240.040.021.900.060.031.460.080.041.260.110.060.910.190.090.500.350.150.110.570.230.000.840.380.00	Pre-Retirement MortalityUltimate WithdrawalDisabilityMalesFemales0.03%0.01%6.01%0.11%0.040.023.240.130.040.021.900.160.060.031.460.190.080.041.260.290.110.060.910.540.190.090.501.040.350.150.112.030.570.230.000.000.840.380.000.00

Summary of Plan Provisions

This summary of provisions reflects the interpretation of applicable Statutes for purposes of preparing this valuation. This interpretation is not intended to create or rescind any benefit rights in conflict with any Minnesota Statutes.

Eligibility		n part-time, police officers other local retirement fund	and fire fighters, who are
Contributions			1.
Contributions	Shown as a percent of s		
		Member	Employer
	Current	8.6%	12.9%
	January 2009	9.4%	14.1%
Allowable service		during which member conves of absence and military	tributions were made. May y service.
Salary	retirement plans, net inc employer. Excludes lun	eted for deferred compensa- come from fees and sick le up sum annual leave paym Compensation benefits.	eave payments funded by the
Average salary	Average of the five highest successive years of salary. Average Salary is based on all Allowable Service if less than five years.		
Retirement	•		
Normal retirement benefit			
Age/service requirements	Age 55 and three years of Allowable Service. Proportionate Retirement Annuity is available at age 65 and one year of Allowable Service.		
Amount	3.0% of Average Salary	for each year of Allowab	le Service.
Early retirement			
Age/service requirements	Age 50 and three years	of Allowable Service.	
Amount	Normal Retirement Benefit based on Allowable Service and Average Salar at retirement date and 0.10% (0.20% for members enrolled in the plan after June 30, 2007) reduction for each month the member is under age 55.		s enrolled in the plan after
Form of payment	aggregate monthly payn	on death of any balance of ments. Actuarially equivale 6 Joint and Survivor with	ent options are:

Summary of Plan Provisions (continued)

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Retirement (continued)	
<u>Benefit increase</u> s (continued)	 The inflation-based benefit increase provided by the Minnesota Post Retirement Investment Fund (Post Fund) to benefit recipients is equal to 100 percent of CPI-W, but not to exceed 2.5 percent. An additional benefit increase may be provided to any individuals who have lost purchasing power compared to the value of the benefit they initially received when their benefit first commenced. This additional benefit increase can only be paid if the Post Fund composite funding ratio is at least 90 percent, if the rate of return earned on Post Fund assets exceeds 8.5 percent for the year, and if the inflation rate certified for the year is less than 2.5 percent. If the Post Fund has a funding ratio of 100 percent or more, an additional inflation component will be paid when CPI-W inflation exceeds 2.5 percent. An overall cap of 5.0 percent annually on benefit recipient adjustments is effective June 30, 2010. A benefit recipient who has been receiving a benefit for at least 12 full months as of June 30 will receive a full increase. Benefit recipients receiving benefits for at least one full month but less than 12 full months will receive a partial increase.
	Members retired under law in effect before July 1, 1973 receive an additional lump sum payment each year. In 1989, this lump sum payment is the greater of \$25 times each full year of Allowable Service or the difference between \$400 times each full year of Allowable Service and the sum of the benefits paid from any Minnesota public pension plan plus cash payments from the Social Security Administration for the preceding fiscal year July 1, 1988 through June 30, 1989. In each following year, the lump sum payment will increase by the same percentage increase that is applied to regular annuities paid from MPRIF. Effective January 1, 2002, annual lump sum payment is divided by 12 and paid as a monthly life annuity in the annuity form elected.
Disability	
Duty disability benefit	
Age/service requirement	Physically or mentally unable to perform duties as a police officer or fire fighter as a direct result of an act of duty. Members age 55 or older with 20 or more years of Allowable Service are not eligible to apply for disability benefits.
Amount	60.00%, plus an additional 3.00% for each year of service in excess of 20 years, of Average Salary paid until Normal Retirement Age, or for 60 months, whichever is later. The retirement benefit is then recalculated but is never lower than the disability benefit.
	If a member became disabled prior to July 1, 1997 but did not commence their benefit before July 1, 1997, the benefit is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in post-retirement interest rates from 5.00% to 6.00%.

Disability (continued)	
Regular disability benefit	
Age/service requirement	Physically or mentally unable to perform duties as a police officer or fire fighter with one year of Allowable Service. Members age 55 or older with 15 or more years of Allowable Service are not eligible to apply for disability benefits.
Amount .	45.00% of Average Salary, paid until Normal Retirement Age, or for 60 months, whichever is later. The retirement benefit is then recalculated but is never lower than the disability benefit. Benefits for total and permanent regular disability are calculated as 3.00% of Average Salary for each year of Allowable Service, with a minimum of 45.00% of Average Salary.
	If a member became disabled prior to July 1, 1997 but did not commence their benefit before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in post-retirement interest rates from 5.00% to 6.00%.
Benefit increases	Adjusted by PERA to provide same increase as MPRIF.
<u>Retirement benefit</u>	
Age/service requirement	Upon cessation of disability benefits.
Amount	Any optional annuity continues. Otherwise, the larger of the disability benefit paid before age 65 or the normal retirement benefit available at age 65, or an actuarially equivalent optional annuity.
Form of payment	Same as for retirement.
Benefit increases	Same as for retirement.

Death	
<u>Regular disability</u> <u>surviving spouse benefit</u>	
Age/service requirement	Regular disabled member with surviving spouse, with at least three years of Allowable Service at death.
Amount	50.00% of salary averaged over last six months. Benefit paid until spouse's death but no payments while spouse is remarried prior to July 1, 1991.
	If a member becomes deceased prior to July 1, 1997 and the beneficiary was not eligible to commence their survivor benefits before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Benefit increases	Adjusted by PERA to provide same increase as MPRIF.
Regular disability surviving dependent children's benefit	
Age/service requirement	Regular disabled member with dependent child.
Amount	10.00% of salary averaged over last six months for each child. Family benefit minimum (including spouse's benefit) of 50.00% of salary and maximum of 70.00% of salary. Benefits paid until child marries, dies, or attains age 18 (age 23 if full-time student).
,	If a member became deceased prior to July 1, 1997 and the beneficiary was not eligible to commence their survivor benefits before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
<u>Duty disability</u> surviving spouse benefit	,
Age/service requirement	Active member who is totally and permanently disabled who dies before age 55 or within five years of the effective date of the disability benefit, whichever is later.
Amount	60.00% of salary averaged over last six months. Benefits paid until spouse's death but no payments while spouse is remarried prior to July 1, 1991.
	If a member became deceased prior to July 1, 1997 and the beneficiary was not eligible to commence their survivor benefits before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Benefit increases	Adjusted by PERA to provide same increase as MPRIF.

Death (continued)	
Duty disability surviving dependent children's benefit	
Age/service requirement	Regular disabled member with dependent child.
Amount	10.00% of salary averaged over last six months for each child. Family benefit minimum (including spouse's benefit) of 60.00% of salary and maximum of 80.00% of salary. Benefits paid until child marries, dies, or attains age 18 (age 23 if full-time student).
	If a member became deceased prior to July 1, 1997 and the beneficiary was not eligible to commence their survivor benefits before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Surviving spouse optional ann	<u>uity</u>
Age/service requirement	Active or Disabled member dies before age 55. Benefits commence when member would have been age 55 or as early as age 50 if qualified for early retirement, benefits commence immediately if member had 30 years of service.
Amount	Survivor's payment of the 100% joint and survivor benefit the member could have elected if terminated. Alternatively, spouse may elect refund of deceased's contributions with interest if there are no dependent children.
·	If a member became deceased prior to July 1, 1997 and the beneficiary was not eligible to commence their survivor benefits before July 1, 1997, the benefit payable is calculated under the laws in effect before July 1, 1997, and an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Benefit increases	Adjusted by PERA to provide same increase as MPRIF.
Termination	
Refund of contributions	
Age/service requirement	Termination of public service.
Amount	Member's contributions with 5.00% interest compounded annually if termination occurred before May 16, 1989 and 6.00% interest if termination occurred on or after May 16, 1989. A deferred annuity may be elected in lieu of a refund if three or more years of Allowable Service.
Deferred benefit	
Age/service requirement	Three years of Allowable Service.
Amount	Benefit computed under law in effect at termination and increased by the following percentage compounded annually: 0.00% before July 1, 1971; 5.00% from July 1, 1971 to January 1, 1981; 3.00% thereafter until January of the year following attainment of age 55; and 5.00% (2.50% if hired after June 30, 2006) thereafter until the annuity begins. Amount is payable at normal or early retirement.

If a member terminated employment prior to July 1, 1997 but was not eligible to commence their pension before July 1, 1997, an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Duty Disability Benefit
The duty disability benefit increased from 60 percent of the high-five average salary to 60 percent of the high-five salary plus an additional three percent of the high-five for each year of service in excess of 20 years, retroactive to July 1, 2007.
Revised Minnesota Post Retirement Investment Fund Benefit Increase
The inflation-based benefit increase provided by the Minnesota Post Retirement Investment Fund (Post Fund) to benefit recipients is equal to 100 percent of CPI-W, but not to exceed 2.5 percent. An additional benefit increase may be provided to any individuals who have lost purchasing power compared to the value of the benefit they initially received when their benefit first commenced. This additional benefit increase can only be paid if the Post Fund composite funding ratio is at least 90 percent, if the rate of return earned on Post Fund assets exceeds 8.5 percent for the year, and if the inflation rate certified for the year is less than 2.5 percent. If the Post Fund has a funding ratio of 100 percent or more, an additional inflation component will be paid when CPI-W inflation exceeds 2.5 percent. An overall cap of 5.0 percent annually on benefit recipient adjustments is effective June 30, 2010.
Potential Dissolution of Minnesota Post Fund
If the Post Fund composite funding ratio is less than 80 percent in any one year, or less than 85 percent in two consecutive years, the Post Fund must be dissolved, and assets will be transferred back to the applicable plan and be merged with the active member assets for that plan. If the Post Fund is dissolved, not withstanding any other law, the benefit recipients will receive an annual 2.5 percent increase in lieu of any other benefit increase. By November 30 following the dissolution of the Post Fund, the executive directors of the applicable plans must propose legislation needed to revise statutes to conform to the dissolved Post Fund.

Plan Accounting Under GASB 25 (as amended by GASB 50)*

Provided below is information required under GASB Statement No. 25 as amended by GASB Statement No. 50 - Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans as amended by GASB Statement No. 50.

Schedule of Funding Progress (Dollars in Thousands)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded (Overfunded) AAL (UAAL) (b) – (a)	Funded Ratio (a)/(b)	Actual Covered Payroll (Previous FY) (c)	UAAL as a Percentage of Covered Payroll (b) – (a) (c)
07/01/1991	\$ 839,560	\$ 794,295	\$ (45,265)	105.70%	\$ 238,230	(19.00%)
07/01/1992	979,981	888,826	(91,155)	110.26%	239,158	(38.11%)
07/01/1993	1,118,342	1,009,226	(109,116)	110.81%	253,666	(43.02%)
07/01/1994	1,234,961	1,099,221	(135,740)	112.35%	277,566	(48.90%)
07/01/1995	1,385,901	1,196,795	(189,106)	115.80%	293,919	(64.34%)
07/01/1996	1,633,010	1,334,202	(298,808)	122.40%	316,189	(94.50%)
07/01/1997	1,974,635	1,556,483	(418,152)	126.87%	346,319	(120.74%)
07/01/1998	2,337,313	1,741,344	(595,969)	134.22%	375,131	(158.87%)
07/01/1999	3,679,551	3,004,637	(674,914)	122.46%	352,066	(191.70%)
07/01/2000	4,145,351	3,383,187	(762,164)	122.53%	392,796	(194.04%)
07/01/2001 ¹	4,472,041	3,712,360	(759,681)	120.46%	500,839	(151.68%)
07/01/2002 ¹	4,672,679	3,886,311	(786,368)	120.23%	522,153	(150.60%)
07/01/2003 ¹	4,683,115	4,390,953	(292,162)	106.65%	560,503	(52.12%)
07/01/2004	4,746,834	4,692,190	(54,644)	101.16%	551,266	(9.91%)
07/01/2005	4,814,961	4,956,340	141,379	97.15%	580,723	24.35%
07/01/2006	5,017,951	5,260,564	242,613	95.39%	618,435	39.23%
07/01/2007	5,198,922	5,669,347	470,425	91.70%	648,342	72.56%
07/01/2008	5,233,015	5,918,061	685,046	88.42%	703,701	97.35%

* Information prior to 2008 provided by the Segal Company.

¹ Excludes amounts receivable from municipalities with positive amortizable bases.

Plan Accounting Under GASB 25 (as amended by GASB 50)*

Schedule of Contributions from the Employer and Other Contributing Entities (Dollars in Thousands)

The GASB Statement No. 25 (as amended by GASB 50) required and actual contributions are as follows:

Plan Year Ended June 30	Actuarially Required Contribution Rate ¹ (a)	Actual Covered Payroll (b)	Actual Member Contributions (c)	Annual Required Contributions [(a)x(b)] – (c) = (d)	Actual Employer Contributions ² (e)	Percentage Contributed (e) / (d)
1991	17.56%	\$ 238,230	\$ 17,636	\$ 24,197	\$ 26,440	109.27%
1992	17.54%	239,158	19,217	22,731	28,766	126.55%
1993	18.60%	253,666	20,406	26,776	30,434	113.66%
1994	17.45%	277,566	21,806	26,629	32,536	122.18%
1995	17.28%	293,919	22,356	28,433	33,548	117.99%
1996	16.49%	316,189	24,065	28,075	36,066	128.46%
1997	15.11%	346,319	26,354	25,975	39,508	152.10%
1998 ³	15.69%	375,131	28,552	30,306	42,786	141.18%
1999 ³	12.32%	352,066	30,897	12,478	46,280	370.89%
2000 ³	12.87%	392,796	31,214	19,339	53,178	274.98%
2001 ^{3, 4, 5}	12.21%	500,839	31,341	29,811	52,960	177.65%
2002	12.61%	522,153	33,801	32,042	90,664	282.95%
2003 ^{3, 5, 6}	12.52%	560,503	34,751	35,424	50,917	143.74%
2004 ^{3, 5, 7}	19.47%	551,266	36,313	71,019	52,770	74.30%
2005 ³	21.99%	580,723	37,873	89,828	55,802	62.12%
2006 ³	24.36%	618,435	42,970	107,681	63,603	59.07%
2007 ^{3, 8}	25.76%	648,342	50,688	116,325	74,707	64.22%
2008 ^{3, 9}	28.82%	703,701	58,259	144,548	87,023	60.20%
2009 ^{3, 10}	28.41%					

* Information prior to 2008 provided by the Segal Company.

¹ Actuarially Required Contributions determined for years ended 1995, 1996 and 1997 did not comply with the parameters of GASB 25 since a one percent growth in covered population is assumed in the amortization calculation.

² Includes contributions from other sources (if applicable).

³ Actuarially Required Contributions Rate calculated according to parameters of GASB 25 with no assumption for growth of covered population.

⁴ Actuarially Required Contribution Rate prior to change in Asset Valuation Method is 11.41%.

⁵ Excludes amounts receivable from municipalities with positive amortizable bases.

⁶ Actuarially Required Contribution Rate prior to change in Actuarial Assumptions is 12.33%

⁷ Actuarially Required Contribution Rate prior to change in Actuarial Assumptions is 15.36%.

⁸ Actuarially Required Contribution Rate prior to change in Plan Provisions is 25.77%.

⁹ Actuarially Required Contribution Rate prior to change in Plan Provisions is 26.75% and prior to change in Asset Valuation Method including new Plan Provisions is 26.27%.

¹⁰ Actuarially Required Contribution Rate prior to change in Actuarial Assumptions is 32.75% and prior to change in Plan Provisions is 27.96%.

Glossary

Actuarial Asset Value. The value of assets used in calculating the required contributions. The actuarial asset value may be equal to the fair market value of assets, or it may spread the recognition of certain investment gains or losses over a period of years in accordance with an asset valuation method. The goal of an asset valuation method is to produce a relatively stable asset value thereby reducing year-to-year volatility in contribution requirements.

Actuarial Cost Method. Sometimes called "funding method," a particular technique used by actuaries to establish the amount and incidence of the annual actuarial cost of pension plan benefits, or normal cost, and the related unfunded actuarial accrued liability. Ordinarily, the annual contribution to the plan comprises the normal cost and an amount for amortization of the unfunded actuarial accrued liability.

Annual Pension Cost. A measure of the periodic cost of an employer's participation in a defined benefit pension plan.

Annual Required Contributions (ARC). The employer's periodic required contributions to a defined benefit pension plan, calculated in accordance with the parameters of GASB 25 (as amended by GASB 50) or GASB 27.

ASA. Associate of the Society of Actuaries.

Current Benefit Obligations. The present value of benefits earned to the valuation date, based on current service and including future salary increases to retirement.

FSA. Fellow of the Society of Actuaries.

Normal Cost. The annual cost assigned to the current year, under the actuarial cost method in use.

Present Value. Sometimes called "actuarial present value," the current worth (on the valuation date) of an amount or series of amounts payable or receivable in the future. The present value is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

Statement No. 25 of the Governmental Accounting Standards Board (GASB 25). The accounting standard governing the financial reporting for defined benefit pension plans and note disclosures for defined contribution plans.

Statement No. 27 of the Governmental Accounting Standards Board (GASB 27). The accounting standard governing a state or local governmental employer's accounting for pensions.

Statement No. 50 of the Governmental Accounting Standards Board (GASB 50). The accounting standard amending both GASB 25 and GASB 27 to require a schedule of funding progress under the Entry Age Normal method for plans that use the aggregate funding method to determine the Annual Required Contribution.

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Mercer (US) Inc. 333 South 7th Street, Suite 1600 Minneapolis, MN 55402-2427 612 642 8600

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