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MINNEAPOLIS EMPLOYEES RETIREMENT FUND ACTUARIAL VALUATION REPORT AS OF JULY 1, 2012



100 South Fifth Street Suite 1900 Minneapolis, MN 55402-1267

November 2012

Public Employees Retirement Association of Minnesota Minneapolis Employees Retirement Fund St. Paul, Minnesota

Dear Trustees of the Minneapolis Employees Retirement Fund:

The results of the July 1, 2012 annual actuarial valuation of the Minneapolis Employees Retirement Fund are presented in this report. This report was prepared at the request of the Board and is intended for use by the Retirement Plan and those designated or approved by the Board. This report may be provided to parties other than the Plan only in its entirety. GRS is not responsible for the consequences of any unauthorized use of this report.

The purpose of the valuation is to measure the Plan's funding progress, to determine the required contribution rate for the fiscal year beginning July 1, 2012, and to determine the actuarial information required by Governmental Accounting Standards Board (GASB) Statement No. 25. Note that we have not attempted to quantify the impact of GASB Statements No. 67 and No. 68 in this report.

The valuation was based upon information furnished by the Public Employees Retirement Association of Minnesota (PERA), concerning benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not otherwise audit the data. We are not responsible for the accuracy or completeness of the information provided by PERA.

Actuarial assumptions, including discount rates, mortality tables and others identified in this report, are prescribed by Minnesota Statutes Section 356.215 the Legislative Commission on Pensions and Retirement (LCPR), and the Trustees. These parties are responsible for selecting the plan's funding policy, actuarial valuation methods, asset valuation methods, and assumptions. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in the Actuarial Basis of this report. PERA is solely responsible for communicating to GRS any changes required thereto.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

This report should not be relied on for any purpose other than the purpose described in the primary communication. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results.

Board of Directors November 2012 Page 2

The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

The undersigned actuaries are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. In addition, Mr. Murphy meets the requirements of "approved actuary" under Minnesota Statutes Section 356.215, Subdivision 1, Paragraph (c).

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge and belief the information contained in this report is accurate and fairly presents the actuarial position of the Minneapolis Employees Retirement Fund as of the valuation date and was performed in accordance with the requirements of Minnesota Statutes Section 356.215, and the requirements of the Standards for Actuarial Work established by the LCPR. All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

We are available to answer any questions or provide further details.

Respectfully submitted,

Brian B. Murphy, FSA, EA, MAAA

Bonita J. Wurst Bonita J. Wurst, ASA, EA, MAAA

BBM/BJW:sc

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Contributions

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

	Actuarial Valuation as of		
Contributions	July 1, 2012	July 1, 2011	
Statutory Contributions - Chapter 353 (% of Payroll)	1,063.53%	817.32%	
Required Contributions - Chapter 356 (% of Payroll)	775.33%	525.50%	
Sufficiency / (Deficiency)	288.20%	291.82%	
Statutory Contributions - Chapter 353 (000's)	\$ 56,069	\$ 55,147	
Required Contributions - Chapter 356 (000's)	40,876	35,457	
Sufficiency / (Deficiency)	15,193	19,690	

The annual contribution sufficiency decreased from \$19.7 million to \$15.2 million. The primary reasons for the decrease are the investment loss from the prior fiscal year, and the recognition of new assumptions. See page 3 for additional information about these changes.

The actuarial accrued liability funding ratio decreased from 73.5% to 69.1%. If the actuarial accrued liability funding ratio of this plan reaches 80%, the MERF Division will be merged with the PERA general employees retirement plan. Upon consolidation, the remaining unfunded liability will be amortized as a level dollar amount through June 30, 2031. The amortization payment will be based on the assumptions of the PERA general employees retirement plan.

The Plan Assets section provides detail on the plan assets used for the valuation including a development of the actuarial value of assets (AVA). The market value of assets (MVA) earned approximately 2.2% for the plan year ending June 30, 2012.

Participant reconciliation and statistics are detailed in the Membership 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 sections detail the required accounting information for the Plan under GASB Statement No. 25 (as amended by GASB Statement No. 50).

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, 2012	July 1, 2011
Contributions (% of Payroll)		
Statutory - Chapter 353	1,063.53%	817.32%
Required - Chapter 356	775.33%	525.50%
Sufficiency / (Deficiency)	288.20%	291.82%
Contributions (dollars in thousands)		
Statutory Contributions - Chapter 353	\$ 56,069	\$ 55,147
Required Contributions - Chapter 356	40,876	35,457
Sufficiency / (Deficiency)	\$ 15,193	19,690
Funding Ratios (dollars in thousands)		
Accrued Benefit Funding Ratio		
- Current assets (AVA)	\$ 842,811	\$ 910,987
- Current benefit obligations	1,218,673	1,237,339
- Funding ratio	69.16%	73.62%
Accrued Liability Funding Ratio		
- Current assets (AVA)	\$ 842,811	\$ 910,987
- Market value of assets (MVA)	842,811	910,987
- Actuarial accrued liability	1,219,735	1,238,703
- Funding ratio (AVA)	69.10%	73.54%
- Funding ratio (MVA)	69.10%	73.54%
Projected Benefit Funding Ratio		
- Current and expected future assets*	\$ 1,220,783	\$ 1,239,963
- Current and expected future benefit obligations	1,220,783	1,239,963
- Projected benefit funding ratio	100.00%	100.00%
Participant Data		
Active members		
- Number	80	107
- Projected annual earnings (000s)	\$ 5,272	\$ 6,747
- Average annual earnings (projected)	\$ 65,900	\$ 63,058
- Average age	61.5	60.7
- Average service	38.2	36.6
Service retirements	3,142	3,256
Survivors	790	806
Disability retirements	123	131
Deferred retirements	69	88
Total	4,204	4.388

*Per the Actuarial Standards, the present value of expected future statutory supplemental contributions is the balancing item needed to attain a projected benefit funding ratio of 100%. Actuarial statutory contributions may be significantly different.

The 2011 valuation was prepared by Mercer. As part of the transition of actuarial work from Mercer to GRS, we replicated the 2011 valuation including a change from beginning of year decrement timing to mid-year decrement timing. The results of this replication are as follows:

		Valuation Results As of July 1, 2011	
	Mercer	GRS	Ratio
Present Value of Projected Benefits	\$1,239,963	\$1,238,855	99.9%
Actuarial Accrued Liability	1,238,703	1,237,263	99.9%
Required Contributions	35,457	35,629	100.5%

Differences in valuation results due to differences in actuarial software are not unexpected. The replication results indicate a high degree of consistency.

Effects of Changes

The following changes in actuarial assumptions and methods were recognized as of July 1, 2012:

• The investment return assumption was changed from 8.5% to a 5-year select and ultimate approach with rates of 8.0% for the period July 1, 2012 to June 30, 2017 and 8.5% thereafter.

The impact of the above change was to increase the accrued liability by \$20.8 million and increase the required contribution by 28.7% of pay, as follows:

	Before Assumption	Reflecting Assumption
	Changes	Changes
Normal Cost Rate, % of pay	10.4%	11.0%
Amortization of Unfunded Accrued Liability, % of pay	728.9%	757.0%
Expenses (% of pay)	7.3%	7.3%
Total Required Contribution, % of pay	746.6%	775.3%
Accrued Liability Funding Ratio	70.3%	69.1%
Projected Benefit Funding Ratio	100.0%	100.0%
Unfunded Accrued Liability (in millions)	\$356.1	\$376.9

Refer to the Actuarial Basis section of this report for a complete description of these changes.

Valuation of Future Post-Retirement Benefit Increases

A very important assumption affecting the valuation results is the expectation of future post-retirement benefit increases, which, by statute, depends on the accrued liability funding ratio of the General Employees Retirement Plan (PERA General) instead of this plan which has a 69.1% funding ratio. If PERA General reaches a funding ratio of 90% (on a market value of assets basis) in the future, post-retirement increases in the Minneapolis Employees Retirement Fund will revert to the 2.5% level. The PERA General Fund's accrued liability funding ratio (on a market value of assets basis and assuming 1.0% post-retirement benefit increases in all future years) is currently 73.0%.

The liabilities in this report are based on the assumption that the post-retirement benefit increase will remain at the reduced level of 1.0% indefinitely. If we assumed future post-retirement benefit increases of 2.5% instead of 1.0%, the actuarial accrued liability would be \$1.36 billion instead of \$1.22 billion, resulting in a funded ratio of 62.0% (on a market value basis) as of July 1, 2012.

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. 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 No. 25 (as amended by GASB No. 50) shows the disclosures required by GASB No. 25 as amended by GASB No. 50.
- **Glossary** defines the terms used in this report.

Plan Assets

Statement of Plan Net Assets as of June 30, 2012 (Dollars in Thousands)

Assets in Trust		Market Value	
Cash, equivalents, short term securities	\$	13,081	
Fixed income		175,810	
Equity		474,204	
SBI Alternative		123,446	
Other		0	
Total Assets in Trust	\$	786,541	
Assets Receivable*		56,384	
Amounts Payable		(114)	
Net Assets Held in Trust for Pension Benefits	\$	842,811	

*Includes \$22.75 million State Contribution paid September 15, 2012 and \$27 million employer contribution, half of which was paid July 30, 2012 and half to be paid on December 31, 2012.

Plan Assets

Reconciliation of Plan Assets (Dollars in Thousands)

The following exhibit shows the revenue, expenses and resulting assets of the Fund as reported by the Public Employees Retirement Association for the Plan's Fiscal Year July 1, 2011 to June 30, 2012.

Change in Assets	Mai	rket Value
1. Fund balance at market value at July 1, 2011*	\$	910,987
2. Contributions		
a. Member		564
b. Employer		31,623
c. Other sources		22,750
d. Total contributions		54,937
3. Investment income		
a. Investment income/(loss)		19,278
b. Investment expenses		(1,079)
c. Net subtotal		18,199
4. Other		206
5. Total income: $(2.d.) + (3.c.) + (4.)$	\$	73,342
6. Benefits Paid		
a. Annuity benefits		(140,709)
b. Refunds		(637)
c. Total benefits paid		(141,346)
7. Expenses		
a. Other		0
b. Administrative		(172)
c. Total expenses		(172)
8. Total disbursements**: $(6.c.) + (7.c.)$		(141,518)
9. Fund balance at market value at July 1, 2012: $(1.) + (5.) + (8.)$	\$	842,811

*Includes \$22.75 million State Contribution paid September 15, 2011.

**Includes \$22.75 million State Contribution paid September 15, 2012 and \$27 million employer contribution, half of which was paid July 30, 2012 and half to be paid on December 31, 2012.

Plan Assets

Actuarial Asset Value (Dollars in Thousands)

Actuarial Asset Value is equal to Market Value, including receivable contributions and reduced by amounts payable at the valuation date.

Distribution of Active Members

_				Years	of Service	as of June	e 30, 2012			
Age	<3*	3 - 4	5-9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35+	Total
< 25										
Avg. Earnings										
25 - 29										
Avg. Earnings										
30 - 34										
Avo Farninos										
Trys. Larnings										
35 - 39										
Avg. Earnings										
40 - 44										
Avg. Earnings										
45 - 49										
Avg. Earnings										
0 0										
50 - 54								1	4	5
Avg. Earnings								77,239	51,535	56,676
55 50								5	26	31
Avg Farnings								J 72 875	20 63 817	65 278
Try, Lamings								12,015	05,017	00,270
60 - 64								4	17	21
Avg. Earnings								71,817	58,940	61,392
65 - 69									14	14
Avg. Earnings									67,020	67,020
70+									9	9
Avg. Earnings									59,414	59,414
Total								10	70	80
Avg. Earnings								72.889	62.005	6.5.366

* This exhibit does not reflect service earned in other PERA or Combined Service Annuity benefits. It should not be relied upon as an indicator of non-vested status.

In each cell, the top number is the count of active participants for the age/service combination and the bottom number is average valuation earnings for the fiscal year ending on the valuation date. The pay shown has been rolled forward at the valuation salary increase assumption from December 31, 2011 to July 1, 2012.

Distribution of Service Retirements

			Years	Retired a	s of June 3	80, 2012		
Age	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	Total
<50								
Avg Benefit								
Trig. Deneni								
50 - 54		3	3					6
Avg. Benefit		50,730	33,096					41,913
55 - 59	7	37	115	18				177
Avg. Benefit	46,650	37,930	38,502	36,984				38,550
<u> </u>	15	100	100	164	10			407
00 - 04	15 20 075	108	199 20 106	104	10			490
Avg. Deneni	30,073	30,733	30,100	40,303	50,100			57,555
65 - 69	9	53	182	238	45	2	1	530
Avg. Benefit	31.009	29.881	34.390	43.405	52.715	37.586	17.515	39.466
		_,	,	,	,	2 . ,2		
70 - 74		19	78	211	94	17	1	420
Avg. Benefit		24,035	24,616	33,413	49,388	48,570	46,733	35,575
75 - 79	1	2	29	114	162	46	25	379
Avg. Benefit	22,816	23,127	28,607	27,713	34,409	46,210	53,120	34,528
00 04			10	25	100	1.51	70	
80 - 84			10	35	180	151	/9	455
Avg. Benefit			27,330	27,209	32,359	31,876	51,447	35,000
85 - 89			4	8	35	139	220	406
Avg. Benefit			33.555	17.422	27.670	24.928	38.971	32.711
			,	_,,	_,,	,, _ 0		,
90+			1	2	9	17	244	273
Avg. Benefit			10,657	27,573	22,542	26,251	29,487	28,973
Total	32	222	621	790	535	372	570	3,142
Avg. Benefit	37,862	31,367	34,707	36,715	37,282	31,589	37,237	35,536

In each cell, the top number is the count of retired participants for the age/years retired combination and the bottom number is the average annual benefit amount.

Distribution of Survivors

			Years Sir	nce Death	as of June	e 30, 2012		
Age	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	Total
<45	3	1		1				5
Avg. Benefit	19,921	18,380		3,759				16,380
6	- ,-	- ,		- ,				-)
45 - 49								
Avg. Benefit								
50 - 54		1	3	1	1			6
Avg Benefit		30.624	31.864	30.782	29.849			31.141
Tryg. Denem		50,021	51,001	50,702	29,019			01,111
55 - 59	2	1	5	4	5		2	19
Avg. Benefit	33,899	35,144	28,453	24,667	34,643		13,908	28,679
60 - 64	2	5	9	13	15	4	4	52
Avg. Benefit	40,579	28,217	27,453	29,160	29,664	30,447	17,486	28,559
65 60	5		1	10	6	3	14	30
Avg Benefit	29 169		35 171	38 883	3/ 132	27 597	17 075	28 123
Avg. Denem	29,109		55,77	50,005	57,152	21,371	17,075	20,123
70 - 74	5	6	2	9	17	14	19	72
Avg. Benefit	47,149	24,388	16,899	22,851	35,049	40,400	33,908	33,711
75 - 79	3	3	3	5	21	24	46	105
Avg. Benefit	20,157	66,453	32,423	28,058	32,897	30,483	29,910	31,388
00 04	0	2	1	2	10	25	102	1 5 7
80 - 84	45.021	3	l	3	13	25	103	157
Avg. Benefit	45,951	47,107	9,881	14,954	29,051	24,031	52,580	31,492
85 - 89	12	5			4	15	142	178
Avg. Benefit	33.803	31.403			28.772	32,483	34.048	33.707
6		- ,			- ,	- ,		, -
90+	4	4			1	4	144	157
Avg. Benefit	20,446	18,975			8,339	25,857	27,524	26,961
_				_				
Total	45	29	24	46	83	89	474	790
Avg. Benefit	34,480	32,592	27,557	28,086	31,814	30,261	30,615	30,754

In each cell, the top number is the count of survivors for the age/years since death combination and the bottom number is the average annual benefit amount.

Distribution of Disability Retirements

_			Years	Disabled a	s of June	30, 2012		
Age	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	Total
< 45 Avg. Benefit								
45 - 49 Avg. Benefit								
50 - 54 Avg. Benefit								
55 - 59 Avg Benefit				5 19 642	1 28 395	4		10 22 311
Avg. Denem				19,042	28,395	24,127		22,311
60 - 64	1		1		8	6	8	24
Avg. Benefit	7,746		25,970		31,357	29,881	21,873	26,618
65 - 69				7	8	4	7	26
Avg. Benefit				29,031	34,035	38,284	22,522	30,242
70 - 74				4	2	4	9	19
Avg. Benefit				23,370	25,457	34,237	32,914	30,398
75+					1	4	39	44
Avg. Benefit					27,970	35,177	20,693	22,175
Total Avg. Benefit	1 7,746		1 25,970	16 24,681	20 31,521	22 32,118	63 22,792	123 26,028

In each cell, the top number is the count of disabled participants for the age/years disabled combination and the bottom number is the average annual benefit amount.

Reconciliation of Members¹

		Terminated		Recipients			
		Deferred	Service	Disability		_	
	Actives	Retirement	Retirement	Retirement	Survivor	Total	
Members on 7/1/2011	107	88	3,373	14 ²	806 ³	3,568	
Additions	0	0	37	1	45	83	
Return to active	0	0	0	0	0	0	
Terminated non-vested	0	0	0	0	0	0	
Service retirements	(26)	(10)	0	(1)	0	(37)	
Terminated deferred	0	0	0	0	0	0	
Terminated refund/transfer	0	0	0	0	0	0	
Deaths	(1)	0	(159)	0	(52)	(212)	
New beneficiary	0	0	0	0	0	0	
Disabled	0	0	0	0	0	0	
Data correction	0	0	0	0	(12)	(12)	
Net change	(27)	(10)	(122)	0	(19)	(178)	
Preliminary Members as of	80	78	3,251	14	787	3,390	
6/30/2012 ¹							
Data Adjustments	0	(9)	0	0	3	(6)	
Disability Reclassification	0	0	(109)	109	0	0	
Final	80	69	3,142	123	790	4,204	

¹ Provided by PERA and checked for reasonableness.
 ² Mercer total on July 1, 2011 was 3,256.
 ³ Mercer total on July 1, 2011 was 143.

	Deferred
Terminated Member Statistics	Retirement
Number	69
Average age	60.8
Average service	7.0
Average annual benefit, with augmentation to Normal	l
Retirement Date and 30% CSA load	\$17,232

Actuarial Valuation Balance Sheet (Dollars in Thousands)

The actuarial balance sheet is based on the principle that the long-term projected benefit obligations of the plan should be ideally equal to the long-term resources available to fund those obligations. The resources available to meet projected obligations for current members consist of current fund assets plus the present value of anticipated future contributions intended to fund benefits for current members. In the exhibit below, B.2 is the estimated present value of contributions to fund the normal cost rate for current members until their respective termination dates. Item B.1 is the present value of the total \$56,069 statutory contribution net of normal cost and anticipated plan expenses during the period from the valuation date to the statutory unfunded amortization date.

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.

		June 3	30	2012
A.	Actuarial Value of Assets	\$	5	842,811
B.	Expected Future Assets			
	1. Present value of expected future statutory supplemental contributions*			376,924
	2. Present value of future normal cost contributions			1,048
	3. Total expected future assets: $(1.) + (2.)$	\$	5	377,972
C.	Total Current and Expected Future Assets $(A + B.3)$	9	51	,220,783

D. Current Benefit Obligations**

	1. Benefit recipients	Non-Ve	sted	V	Vested	То	tal
	a. Service retirements	\$	0	\$	976,695	\$	976,695
	b. Disability retirements		0		31,043		31,043
	c. Survivors		0		158,362		158,362
	2. Deferred retirements with augmentation		0		11,555		11,555
	3. Former members without vested rights		0		0		0
	4. Active members		0		41,018		41,018
	5. Total Current Benefit Obligations	\$	0	\$	1,218,673	\$	1,218,673
E.	Expected Future Benefit Obligations					\$	2,110
F.	Total Current and Expected Future Benefit Obligations***					\$	1,220,783
G.	Unfunded Current Benefit Obligations: (D.5.) - (A.)					\$	375,862
H.	Unfunded Current and Future Benefit Obligations: (F.) - (C.)						\$ 0
I.	Accrued Benefit Funding Ratio: $(A.)/(D.5.)$						69.16%
J.	Projected Benefit Funding Ratio: $(C.)/(F.)$						100.00%

*Per the Actuarial Standards, this represents the balancing item needed so that C. equals F. Actual statutory contributions may be significantly different.

** Present value of credited projected benefits (projected compensation, current service).

*** Present value of projected benefits (projected compensation, projected service).

Determination of Unfunded Actuarial Accrued Liability and Supplemental Contribution Rate (Dollars in Thousands)

		Actuarial Present Value of Projected		Actuarial I Value of I	Present Future	Act	uarial Accrued	ł
		Bene	efits	Normal	Costs		Liability	
A. D	etermination of Actuarial Accrued Liability (AAL)						-	
1.	Active members							
	a. Retirement annuities	\$	41,195	\$	397	\$	40,798	
	b. Disability benefits		1,105		259		846	
	c. Survivor's benefits		184		30		154	
	d. Deferred retirements		640		260		380	
	e. Refunds*		4		102		<u>(98)</u>	
	f. Total	\$	43,128	\$	1,048	\$	42,080	
2.	Deferred retirements with future augmentation		11,555		0		11,555	
3.	Former members without vested rights		0		0		0	
4.	Annuitants	1	,166,100		0	1	,166,100	
5.	Total	\$1	,220,783	\$	1,048	\$ 1	,219,735	
B. D	etermination of Unfunded Actuarial Accrued Liability (UAAL)							
1.	Actuarial accrued liability					\$1	,219,735	
2.	Current assets (AVA)						842,811	
3.	Unfunded actuarial accrued liability					\$	376,924	
C. D	etermination of Supplemental Contribution Rate							
1.	Current unfunded actuarial accured liability to							
	be amortized by June 30, 2031					\$	376,924	
2.	Supplemental contribution amount						39,911 **	

* Includes non-vested refunds and non-married survivor benefits only.

** The amortization factor as of July 1, 2012 is 9.4442.

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

	Year Ending June 30, 2012
A. Unfunded actuarial accrued liability at beginning of year	\$ 327,716
B. Changes due to interest requirements and current rate of funding	
1. Normal cost and expenses	549
2. Contributions	(54,937)
3. Interest on A., B.1. and B.2.	25,544
4. Total (B.1. + B.2. + B.3.)	(28,844)
C. Expected unfunded actuarial accrued liability at end of year (A. + B.4.)	298,872
D. Increase (decrease) due to actuarial losses (gains) because of experience deviations from expected	
1. Age and Service Retirements	567
2. Disability Retirements	(90)
3. Death-in-Service Benefits	31
4. Withdrawals	25
5. Salary increases	(1,028)
6. Investment income	53,414
7. Mortality of annuitants	(2,928)
8. Other items	8,511
9. Total	58,502
E. Unfunded actuarial accrued liability at end of year before plan amendments and	
changes in actuarial assumptions (C. $+$ D.9.)	357,374
F. Change in unfunded actuarial accrued liability due to changes in plan provisions	0
G. Change in unfunded actuarial accrued liability due to changes in actuarial assumptions	20,773
H. Change in unfunded actuarial accrued liability due to changes in decrement timing and miscellaneous methodology	(1,223)
I. Unfunded actuarial accrued liability at end of year (E. + F. + G. + H.)	\$ 376,924

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

The required contribution is defined in statutes as the sum of normal cost, a supplemental contribution to amortize the UAAL, and an allowance for expenses.

	Percent of	D	Oollar
	Payroll	A	mount
A. Statutory contributions - Chapter 353			
1. Employee contributions	9.75%	\$	514
2. Employer regular contributions	9.75%		514
3. Employer additional contributions	2.68%		141
[2.68% plus \$3,900,000]	73.98%		3,900
4. Employer supplemental contribution	512.14%		27,000
5. Employer special additional contribution**	0.00%		0
6. State contributions	455.23%		24,000
7. Total	1063.53%	\$	56,069
B. Required contributions - Chapter 356			
1. Normal cost			
a. Retirement benefits	4.70%	\$	248
b. Disability benefits	2.79%		147
c. Survivors	0.34%		18
d. Deferred retirement benefits	2.35%		124
e. Refunds*	0.80%		42
f. Total	10.98%	\$	579
2. Supplemental contribution amortization of Unfur	nded		
Actuarial Accrued Liability by June 30, 2031	757.03%	\$	39,911
3. Allowance for administrative expenses	3.39%		179
4. Allowance for 1992 investment expenses	3.93%		207
5. Total	775.33%	\$	40,876
C. Contribution Sufficiency/(Deficiency) (A.7 B.5.)	288.20%	\$	15,193

Note: Projected annual payroll for fiscal year beginning on the valuation date: \$5,272.

* Includes non-vested refunds and non-married survivor benefits only.

** Based on current assets and expected benefit payments, not applicable for 2012-2013.

Actuarial Methods

All actuarial methods are prescribed by Minnesota Statutes, the Legislative Commission on Pensions and Retirement, or the Board of Trustees. Different methodologies may also be reasonable and results based on other methodologies would be different.

Actuarial Cost Method

An actuarial cost method is a set of techniques used by the actuary to develop contribution levels under a retirement plan. The actuarial cost method used in this valuation for all purposes is the Entry Age Actuarial Cost Method. Under this method, a normal cost is developed by amortizing the actuarial value of benefits expected to be received by each active participant (as a level percentage of pay) over the total working lifetime of that participant, from hire to termination. Age as of the valuation date was calculated based on the dates of birth provided by the Fund. Entry age for valuation purposes was calculated as the age on the valuation date minus the provided years of service on the valuation date.

To the extent that current assets and future normal costs do not support participants' expected future benefits, an unfunded actuarial accrued liability ("UAAL") develops. The UAAL is amortized over the statutory amortization period using level dollar. The total contribution developed under this method is the sum of normal cost, expenses, and the payment toward the UAAL.

Select and Ultimate Discount Rate Methodology

Based on direction from the LCPR's actuary, the select and ultimate discount rate methodology was applied to the entry age normal results as follows:

- 1. The present value of projected benefits was calculated using the prescribed select and ultimate discount rates.
- 2. An equivalent single interest rate that produced approximately the same present value of projected benefits was determined.
- 3. The equivalent single interest rate was used to determine the entry age normal accrued liability and normal cost.

The equivalent single interest rate used in this valuation was 8.25%.

Funding Objective

The fundamental financing objective of the fund is to establish contribution rates which meet the required deadline for full funding.

Decrement Timing

All decrements are assumed to occur mid-year.

Asset Valuation Method

Market value of assets.

Payment on the Unfunded Actuarial Accrued Liability

A level dollar amount each year to the statutory amortization date (June 30, 2031).

Changes in Methods since Prior Valuation

Decrement timing was changed from beginning of year to mid-year.

Summary of Actuarial Assumptions

The following assumptions were used in valuing the liabilities and benefits under the plan. All actuarial assumptions are prescribed by Minnesota Statutes, the Legislative Commission on Pensions and Retirement (LCPR), or the Board of Trustees. These parties are responsible for selecting the assumptions used for this valuation. The assumptions prescribed are based on the last experience study, dated September 30, 2009.

The Allowance for Combined Service Annuity was based on a recommendation by a former actuary. We are unable to judge the reasonableness of this assumption without performing a substantial amount of additional work beyond the scope of the assignment.

Investment return	Select and Ultimate Rates:
	July 1, 2012 to June 30, 2017
	8.00% per annum
	July 1, 2017 and later
	8.50% per annum
Benefit increases after	Payment of 1% annual cost-of-living adjustments after retirement accounted for
retirement	explicitly in the projected benefits.
Salary increases	Total reported pay for prior calendar year increased 1.98% (half year of 4.00%, compounded) to prior fiscal year and 4.00% annually for each future year.
Mortality rates	
Healthy pre-retirement	RP-2000 annuitant mortality table, white collar adjustment, projected to 2018 according to scale AA.
Healthy post-retirement	RP-2000 annuitant mortality table, white collar adjustment, projected to 2018 according to scale AA.
	The RP-2000 employee mortality table as published by the Society of Actuaries (SOA) contains mortality rates for ages 15 to 70 and the annuitant mortality table contains mortality rates for ages 50 to 95. We have applied the employee mortality table for annuitants younger than age 50.
Disabled	RP-2000 annuitant mortality table, white collar adjustment, reduced 20%.
	The table adopted by the LCPR on July 8, 2010 differs from the table recommended in the GRS experience study report dated September 30, 2009, and in some cases, reflects lower mortality than the table used for healthy members.
Retirement	Active members are assumed to retire at age 61, or immediately if currently age 61 or older.
Withdrawal	Rates are shown in rate table.

Summary of Actuarial Assumptions (Continued)

Disability	Age-related rates based on experience; see table of sample rates.
Allowance for combined	Liabilities for active members are increased 0.2% and liabilities for former
service annuity	members are increased by 30.00% to account for the effect of some participants
	having eligibility for a Combined Service Annuity.
Administrative expenses	Prior year administrative expenses (excluding investment expenses) increased by
	4.00% expressed as a percentage of projected annual payroll.
Investment expenses	Investment expenses for the fiscal year ending June 30, 1992 are being amortized
	as follows:
	Beginning Balance Fixed Annual Payment Years Remaining
	\$2,849,000 \$207,000 8
Defund of contributions	All amplexees with drowing often becoming aligible for a deferred benefit take the
Refund of contributions	An employees withdrawing after becoming engible for a defended belief take the
	deferred benefit. Account balances for deferred members accumulate interest until
	normal retirement date and are discounted back to the valuation date
Commencement of deferred	Members receiving deferred annuities (including current terminated deferred
benefits	members) are assumed to begin receiving benefits at age 60.
Percentage married	66.67% of active members are assumed to be married. Actual marital status is
C	used for members in payment status.
Age of spouse	Females are assumed to be three years younger than their male spouses. For
	members in payment status, actual spouse date of birth is used, if provided.
Eligible children	Retiring members are assumed to have no dependent children.
Form of payment	Members are assumed to elect a life annuity.
Eligibility testing	Eligibility for benefits is determined based upon the age nearest birthday and
	service on the date the decrement is assumed to occur.
Decrement operation	Withdrawal decrements do not operate during retirement eligibility.
Service credit accruals	It is assumed that members accrue one year of service credit per year.
Unknown data for certain	To prepare this report, GRS has used and relied on participant data supplied by
members	the Fund. Although GRS has reviewed the data in accordance with Actuarial
	Standards of Practice No. 23, GRS has not verified or audited any of the data or
	information provided.
	In some where where the data was missing on incomplete the fallowing
	In cases where submitted data was missing or incomplete, the following
	assumptions were applied.
	There were no members with missing genders or dates of birth.
	Data for terminated members:
	We calculated benefits for these members using the reported Average Salary and
	credited service. If credited service was not reported (one member) we assumed
	seven years. If average salary was not reported (one member) we assumed
	\$57,000.
Changes in actuarial	The investment return assumption was changed from 8.5% to a 5-year select and
assumptions	ultimate approach with a rate of 8.0% for the period July 1 2012 to June 30 2017
T	and 8.5% thereafter.

	Rate (%)								
	Hea	lthy	Disability Mortality						
	Pre-Retireme	ent Mortality							
Age	Male	Female	Male	Female					
20	0.02%	0.01%	0.03%	0.02%					
25	0.03	0.02	0.03	0.02					
30	0.03	0.02	0.03	0.02					
35	0.05	0.04	0.05	0.04					
40	0.08	0.05	0.07	0.05					
45	0.11	0.08	0.11	0.08					
50	0.43	0.18	0.48	0.20					
55	0.38	0.30	0.43	0.28					
60	0.49	0.51	0.53	0.45					
65	0.90	0.83	0.93	0.73					
70	1.47	1.39	1.54	1.21					

Summary of Actuarial Assumptions (Concluded)

	Withd	rawal	Disability Retirement			
Age	Male	Female	Male	Female		
20	21.00%	21.00%	0.21%	0.21%		
25	11.00	11.00	0.21	0.21		
30	5.00	5.00	0.23	0.23		
35	1.50	1.50	0.30	0.30		
40	1.00	1.00	0.41	0.41		
45	1.00	1.00	0.61	0.61		
50	1.00	1.00	0.93	0.93		
55	1.00	1.00	1.60	1.60		
60	1.00	1.00	0.00	0.00		
65	0.00	0.00	0.00	0.00		

Summary of Plan Provisions

Following is a summary of the major plan provisions used in the valuation of this report. PERA is solely responsible for the validity, accuracy and comprehensiveness of this information. If any of the plan provisions shown below are not accurate and complete, the valuation results may differ significantly from those shown in this report and may require a revision of this report.

Plan year	July 1 through June 30.							
Eligibility/employee rule	An employee of the City of Minneapolis, the Metropolitan Airports Commission, the Met Council/Environmental Services, the Municipal Employees Retirement Fund, and Special School District No. 1 if covered prior to July 1, 1978. Employees covered July 1, 1978 or later are covered by the Public Employees Retirement Association (PERA) Plan.							
	Effective July 1, 1992, licensed peace officers and firefighters who are employed by the Metropolitan Airports Commission and covered by the Minneapolis Employees Retirement Fund will receive the greater of retirement, disability, or survivor benefits under:							
	a) The Minneapolis Employees Retirement Fund; or							
	b) The Public Employees Retirement Association (PERA) Police & Fire Plan.							
Full consolidation	Per Statute, if the actuarial accrued liability funding ratio of this plan reaches 80%, the MERF Division will be merged with the PERA general employees retirement plan, effective the first day of the month after the actuarial valuation report that triggers the consolidation is provided to the LCPR. Upon consolidation, the remaining unfunded liability will be amortized as a level dollar amount through June 30, 2031. The amortization payment will be based on the assumptions of the PERA general employees retirement plan.							

Summary	of Plan	Provisions	(Continued)
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Contributions								
Member	9.75% of salary							
Employer	9.75% of salary (Employer Regular Contributions)							
	2.68% of salary plus employing unit's share of \$3.9 f	million (Employer	Additional					
	Contribution)							
	City of Minneapolis	\$ 2,763,437]					
	Minneapolis Schools	\$ 731,125						
	Metropolitan Airports Commission	\$ 402,512						
	MnSCU	\$ 2,926						
	Total:	\$ 3,900,000						
	Employer Regular and Additional Contributions will active members.	be paid as long a	s there are					
	full consolidation. Equal to the larger of:	June 30, 2012 and	i para until					
	 Total actuarial required contributions minus member and employer reg additional contributions less the maximum State contribution; or \$27,000,000. 							
	The total employer contribution (Regular, Additional and Supplemental) cannot exceed \$34,000,000.							
	Employer Special Additional Contribution – required if expected benefit payments will likely exceed assets during the year (prior to full consolidation).							
Contributions	The Supplemental and Special Additional Contrib	butions are alloca	ted to the					
	employers in proportion to their share of the actuaria	al accrued liability	of MERF					
	on July 1, 2009, as follows:							
	Employer	Allocation	7					
	City of Minneapolis	54 78%	1					
	Minneapolis Park Board	10.33%	-					
	Met Council	1 74%	-					
	Metropolitan Airport Commission	5.76%	1					
	Municipal Building Commission	1.08%	-					

Minneapolis School District No. 1

Hennepin County

MnSCU

Total

23.04% 3.17%

0.10% 100.00%

Summary of Plan Provisions (Continued)

State contributions	Equal to the actuarial required contribution employer regular and additional contributions exceed the following amounts:	n minus expected member and . The State's contribution cannot					
	Due Date						
	September 15, 2010	\$ 9,000,000					
	September 15, 2011	\$ 22,750,000					
	September 15, 2012	\$ 22,750,000					
	September 15, 2013 and beyond	\$ 24,000,000					
	The State's contributions end on the earlier of September 15, 2031, or year following the first date on which MERF assets equal or exceed actuarial accrued liability						
Allowable service	Service during which member contributions were made. Allowable Service may also include certain leaves of absence, military service and service prior to becoming a member. Allowable service also includes time on duty disability provided that the member returns to active service if the disability ceases						
Salary	All amounts of salary, wages or compensation.						
Average salary	Average of the five highest calendar years of salary out of the last ten calendar years						
Retirement							
Normal retirement benefit							
Age/service requirement	ement Age 60 and 10 years of employment. Any age with 30 years of employment. Proportionate retirement annuity is available at age 65 and 1 year allowable service.						
Amount	2.00% of average salary for the first 10 years of allowable service plus 2.50% of average salary for each subsequent year of allowable service						

Summary of Plan Provisions (Continued)

Disability	
Disability benefit	
Age/service requirement	Total and permanent disability before age 60 with five years of allowable service, or no allowable service if a work-related disability.
Amount	2.00% of average salary for the first 10 years of disability service plus 2.50% of average salary for each subsequent year of disability service. Disability service is the greater of (a) or (b) where:
	 (a.) equals allowable service plus service projected to age 60, subject to a maximum of 22 years, and (b.) equals allowable service.
	Benefit is reduced by Workers' Compensation benefits.
	Payments stop at age 60 or earlier if disability ceases or death occurs. Benefits may be reduced on resumption of partial employment.
Dischility often concretion	
Age/service requirement	Total and permanent disability after electing to receive a retirement benefit but before age 60.
Amount	Actuarial equivalent of total credit to member's account.
<u>Retirement after disability</u> Age/service requirement	Total and permanent disability after electing to receive a retirement benefit but before age 60. Employee is still disabled after age 60.
Amount	Benefit continues according to the option selected.

Summary of Plan Provisions (Continued)

Death	
Pre-retirement survivor's	
spouse benefit	
Age/service requirement	Active member with 18 months of allowable service.
Amount	30% of salary averaged over the last six months to the surviving spouse plus 10% of salary averaged over the last six months to each surviving child. Minimum benefit is \$900 per month.
Pre-retirement survivor's	
Age/service requirement	Active member or former member who dies before retirement with 20 years of allowable service.
Amount	Actuarial equivalent of a single life annuity which would have been paid as a retirement benefit on the date of death without regard to eligibility age for retirement benefit. If there is no surviving spouse, the designated beneficiary may be a dependent child or dependent parent.
Refund of accumulated	
<u>city contributions</u>	
Age/service requirement	Active member or former member dies after 10 years of allowable service and prior to retirement.
Amount	Present value of the City's annual installments of \$60 or, in the case of a former member, the net accumulation of city deposits. This benefit is not payable if survivor's benefits are paid.
Lump sum	
Age/service requirement	Death prior to service or disability retirement without an eligible surviving beneficiary.
Amount	\$750 with less than 10 years allowable service, or \$1,500 with 10 or more years of allowable service.
Refund of member	
contributions at death	
Age/service requirement	Active member or former member dies before retirement.
Amount	The excess of the member's contributions (exclusive of the contributions to the survivor's account) plus interest to the date of death.

Summary of Plan Provisions (Concluded)

Termination	
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 (augmentation), compounded annually:
	(a.) 0.00% prior to July 1, 1971,
	(b.) 5.00% from July 1, 1971 to January 1, 1981, and
	(c.) 3.00% thereafter until the annuity begins.
	Amount is payable at or after age 60.
<u>Refund of members'</u> <u>contributions upon</u> <u>termination</u> Age/service requirement	Termination of public service.
Amount	Member's contributions with interest. A deferred annuity may be elected in lieu of a refund if vested.
Form of payment	Life annuity.
	• Life annuity with 3, 5, 10 or 15 years guaranteed.
	 Life annuity with lump sum death benefit.
	 Joint & Survivor (with or without bounce back feature).
Optional form conversion	1986 PET mortality table with a one year setback, blended 50% male and 50%
factors	female, and 5% interest.
Two dollar bill and annuity	Optional Two Dollar Bill money purchase annuity available at age 55 with 20
	years of service if member had service prior to June 28, 1973. According to
	PERA, this option is rarely utilized. We have assumed that remaining active members will not elect this optional benefit
Ronafit increases	Benefit recipients receive future annual 1.0% benefit increases. If the accrued
Denent mer cases	liability funding ratio of the General Employees Retirement Plan reaches 90%
	(on a Market Value of Assets basis), the benefit increase will change to 2.5%.
Changes in plan provisions	None.

Plan Accounting Under GASB No. 25 (as amended by GASB No. 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 Progress¹ (Dollars in Thousands)

	Actuarial		Actuarial	Li T	iquidity `rigger	Unfunded		Actual Covered	UAAL as a Percentage of Covered
Actuarial	Value of	Acc	rued Liability	Ad	jus tme nt	(Overfunded)	Funded	Payroll	Payroll
Valuation	Assets		(AAL)	((LTA)	AAL (UAAL)	Ratio	(Previous FY)	(b) + (c) - (a)
Date	(a)		(b)		(c)	(b) + (c) - (a)	(a)/[(b) + (c)]	(d)	(d)
7-1-2002	\$ 1,540,221	\$	1,667,871		N/A	\$ 127,650	92.35 %	\$ 43,461	293.71 %
7-1-2003	1,519,421		1,645,921		N/A	126,500	92.31	40,537	312.06
7-1-2004	1,513,389		1,643,140		N/A	129,751	92.1	33,266	390.04
7-1-2005	1,489,713		1,624,355		N/A	134,642	91.71	27,479	489.98
7-1-2006	1,490,280		1,617,653		N/A	127,373	92.13	21,669	587.82
7-1-2007	1,383,742		1,610,881		N/A	227,139	85.9	17,296	1,313.27
7-1-2008	1,214,305		1,576,855	\$	12,135	374,685	76.42	13,957	2,684.64
7-1-2009	880,133		1,551,099		23,912	694,878	55.88	10,979	6,328.96
7-1-2010 ²	844,033		1,286,151		N/A	442,118	65.62	11,090	3,986.64
7-1-2011 ²	910,987		1,238,703		N/A	327,716	73.54	7,869	4,164.65
7-1-2012 ²	842,811		1,219,735		N/A	376,924	69.10	5,785 ³	6,515.54

¹ Information prior to 2012 provided by prior actuary. See prior reports for additional detail. ² Actuarial value of assets set equal to market value.

³ Assumed equal to actual member contributions divided by 9.75%.

Plan Accounting Under GASB No. 25 (as amended by GASB No. 50)

Schedule of Contributions from the Employer and Other Contributing Entities¹ (Dollars in Thousands)

The GASB Statement No. 25 required and actual contributions are as follows:

Plan Year	Actuarially Required Contribution	Actu	al Covered		Actual Member	Annı	al Required	Act	ual Employer	Percentage
Ended	Rate]	Payroll		ontributions	Co	ntributions	С	ontributions	Contributed
June 30	(a)		(b)		(c)	[(a)x((b)] - (c) = (d)		(e)	(e)/(d)
2002	41.78 %	\$	43,461	\$	4,780	\$	13,378	\$	21,158	158.16%
2003	46.64		40,537		4,167		14,739		40,199	272.73
2004	52.49		33,266		3,343		14,118		45,459	321.98
2005	63.95		27,479		3,087		14,478		19,395	133.96
2006	75.07		21,669		2,312		13,955		44,953	322.14
2007	95.33		17,296		1,665		14,823		28,545	192.58
2008	187.33		13,957		1,431		24,714		15,272	61.79
2009	374.32		10,979		1,072		40,026		15,646	39.09
2010	833.55		11,090		1,081		91,360		13,798	15.10
2011	538.76		7,869		767		41,628		27,855	66.91
2012	525.50		5,785 ²		564		29,836		54,373	182.24
2013	775.33									

¹ Information prior to 2012 provided by prior actuary. See prior reports for additional detail.
 ² Assumed equal to actual member contributions divided by 9.75%.

Glossary of Terms

Accrued Benefit Funding Ratio	The ratio of assets to Current Benefit Obligations.
Accrued Liability Funding Ratio	The ratio of assets to Actuarial Accrued Liability.
Actuarial Accrued Liability (AAL)	The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.
Actuarial Assumptions	Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.
Actuarial Cost Method	A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of future Normal Costs and the Actuarial Accrued Liability.
Actuarial Equivalent	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
Actuarial Present Value (APV)	The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.
Actuarial Present Value of Projected Benefits	The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, non-retired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.
Actuarial Valuation	The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 25, such as the Funded Ratio and the Annual Required Contribution (ARC).
Actuarial Value of Assets	The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially required contribution (ARC).

Glossary of Terms (Continued)

Amortization Method	A method for determining the Amortization Payment. Under the Level Percentage of Pay method, the Amortization payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. The stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.
Amortization Payment	That portion of the plan contribution or ARC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.
Amortization Period	The period used in calculating the Amortization Payment.
Annual Required Contribution (ARC)	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under GASB No. 25. The ARC consists of the Employer Normal Cost and Amortization Payment.
Augmentation	Annual increases to deferred benefits.
Closed Amortization Period	A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.
Current Benefit Obligations	The present value of benefits earned to the valuation date, based on current service and including future salary increases to retirement.
Employer Normal Cost	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
Expected Assets	The present value of anticipated future contributions intended to fund benefits for current members.
Experience Gain/Loss	A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.

Glossary of Terms (Concluded)

GASB	Governmental Accounting Standards Board.
GASB No. 25 and GASB No. 27	These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 27 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 25 sets the rules for the systems themselves.
GASB No. 50	The accounting standard governing a state or local governmental employer's accounting for pensions.
Normal Cost	The annual cost assigned, under the Actuarial Cost Method, to the current plan year.
Projected Benefit Funding Ratio	The ratio of the sum of Actuarial Value of Assets and Expected Assets to the Actuarial Present Value of Projected Benefits.
Unfunded Actuarial Accrued Liability	The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.
Valuation Date	The date as of which the Actuarial Present Value of Future Benefits are determined. The benefits expected to be paid in the future are discounted to this date.