October 13, 2010

The Retirement Board City of Phoenix Employees' Retirement Plan Phoenix, Arizona

Dear Board Members:

The purpose of the annual actuarial valuation of the City of Phoenix Employees' Retirement Plan as of June 30, 2010, is to:

- Compute the liabilities associated with benefits likely to be paid on behalf of current retired, active and vested inactive members of the Retirement Plan.
- Compare accrued assets with accrued liabilities to assess the funded condition of the Retirement Plan, and
- Compute the City's recommended contribution rate for the Fiscal Year beginning July 1, 2011.

This valuation has been conducted in accordance with generally accepted actuarial principles and practices in compliance with the provisions of the City Charter. Data concerning Retirement Plan benefits, financial transactions and individual members, terminated members, retirees and beneficiaries was provided by your Retirement Program Administrator. This data has been reviewed for reasonableness, but no attempt has been made to audit such information. The actuarial assumptions used in the valuation produce results which we believe are reasonable. This valuation has been prepared under the supervision of a Member of the American Academy of Actuaries who meets the qualification standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully submitted,

Denise M. Jones Senior Consultant Sandra W. Rodwan

Sandia Mikodwan

Member, American Academy of Actuaries

City of Phoenix Employees' Retirement Plan

Annual Actuarial Valuation as of June 30, 2010

Table of Contents

Section One: Valuation Summary	
Valuation Summary	1
Section Two: Actuarial Calculations – Funding	
Computed Contribution Rates	3
Unfunded Actuarial Accrued Liability	4
Section Three: Retirement Plan Benefit Provisions	
Benefit Provision Summary	9
Section Four: Actuarial Assumptions and Methods	
Actuarial Assumptions	.11
Actuarial Methods	.15
Section Five: Valuation Data	
Asset Summary	.16
Participant Summary	.19
Section Six: Accounting Disclosures	
Information for GASR Statement No. 25	25



Section One: Valuation Summary



Purpose of Valuation

The purpose of the annual actuarial valuation of the City of Phoenix Employees' Retirement Plan, as of June 30, 2010, is to:

- Compute the liabilities associated with benefits likely to be paid on behalf of current retired, active and vested inactive members of the Retirement Plan,
- Compare accrued assets with accrued liabilities to assess the funded condition of the Retirement Plan, and
- Compute the City's recommended contribution rate for the Fiscal Year beginning July 1, 2011.

Liabilities and Funded Condition of Retirement Plan

Accrued liabilities of the Retirement Plan as of June 30, 2010 were computed to be \$2,697,287,660. The funding value of assets was \$1,868,093,113. The ratio of the funding value of assets to accrued liabilities was 69.3%.

Funding Value of Assets

A smoothed market value of assets was used for the June 30, 2010 valuation. This method, which is unchanged from last year, spreads the difference between the actual and expected investment return over four years.

City's Computed City Contribution Rate

The City's normal cost contribution rate was computed to be 8.92% of member payroll. Unfunded actuarial accrued liability was amortized over 20 years, producing an amortization payment of 9.26% of member payroll. The net contribution for FY 2011/2012 was therefore computed to be 18.18% of member payroll.

Retirement Plan Experience

The overall experience of the Retirement Plan during the year ended June 30, 2010 was less favorable than expected experience based on long-term assumptions. The recognized rate of return on the smoothed funding value of assets was less than the long term assumed rate and was the primary source of the unfavorable experience. The smoothed funding value of assets includes the phase-in of experience losses/gains over a four year period.

Benefit Provision Changes

There were no changes in benefit provisions during the year.

Assumption and Method Changes

There were no changes in assumptions or methods during the year.

Participant Data

	<u>6/30/2010</u>	6/30/2009
Active Members	8,896	9,317
Active Member Payroll	\$550,174,824	\$539,468,175
Retirees and Beneficiaries Annual Pensions	4,931* \$138,272,993	4,669 \$126,219,565

^{*}Also included in the valuation were 98 alternate payees with annual benefits totaling \$1,096,954.

Financial Data

	<u>6/30/2010</u>	6/30/2009
Market Value of Assets	\$1,535,173,679	\$1,409,558,244
Smoothed Valuation Assets Pension Equalization Reserve	\$1,868,636,402 543,289	\$1,896,271,626 1,123,297
Net Smoothed Valuation Assets	\$1,868,093,113	\$1,895,148,329

Conclusion

The Retirement Plan is funding benefits as they accrue in accordance with a sound level percent of payroll funding objective.

Section Two:

Actuarial Calculations – Funding



Computed Contribution Rates for Fiscal Year Beginning July 1, 2011

The contribution rates shown below are expressed as percents of active member payroll.

The normal cost can be viewed as the long-term ongoing cost of the Retirement Plan.

Unfunded actuarial accrued liability was amortized over 20 years as a level percent of payroll. The 20 year open period was adopted by the Board effective for the fiscal year beginning July 1, 2003.

The City's net computed contribution rate for FY 2011/2012 is 18.18% of active member payroll.

Contribution Recommendation:

	Percent of Payroll
Normal Cost	
Service Pensions	10.51%
Pre-Retirement Death	0.52
Disability	0.79
Withdrawal	<u>2.10</u>
Total Normal Cost	13.92
Unfunded Actuarial Accrued Liability	9.26
Total Computed Contribution	23.18
Member portion	5.00
City's Net Computed Contribution Rate	18.18%
City's Computed Dollar Contribution	\$106,483,325

Unfunded Actuarial Accrued Liability

	<u>June 30, 2010</u>	<u>June 30, 2009</u>
Actuarial accrued liability	\$2,697,287,660	\$2,518,094,494
Assets allocated to funding	<u>1,868,093,113</u>	1,895,148,329
Unfunded actuarial accrued liability	\$829,194,547	\$622,946,165

History of Recommended City Contributions

	V	Computed City	
Valuation Date:	Fiscal	Dollar	Percent of
June 30	Year	Contributions	Payroll
1980*	81/82	\$8,022,758	8.86%
1985	86/87	12,366,739	8.25
1990	91/92	19,582,694	8.69
1995	96/97	23,208,480	8.30
1996	97/98	30,123,972	9.86
1997	98/99	29,185,895	9.14
1998	99/00	26,802,219	7.67
1999	00/01	22,329,387	6.13
2000	01/02	28,294,889	7.24
2001	02/03	27,819,507	6.86
2002	03/04	39,563,747	9.17#
2003	04/05	44,274,921	9.97
2004	05/06	53,093,606	11.20
2005	06/07	58,151,324	11.66
2006(b)	07/08	63,244,698	11.94
2006(a)	07/08	64,198,136	12.12
2007	08/09	67,152,987	11.78
2008(c)	09/10	75,910,874	12.58
2008(d)	09/10	86,591,498	14.35
2009	10/11	92,145,262	16.04
2010	11/12	106,483,325	18.18

^{*}Valuation date 12/31

#Adoption of a 20 year amortization period for unfunded actuarial accrued liability decreased the computed City contribution rate to 9.17% from 10.22% based on 11 year amortization.

- (a) After changes in assumptions.
- (b) Before changes in assumptions.
- (c) Before method changes.
- (d) After method changes.

Note: Results prior to 2000 are based on reports provided by previous actuarial firm.

History of Assets and Accrued Liabilities (\$+000)

Valuation		Actuarial		Unfunded Actuarial
Date	Valuation	Accrued	Funded	Accrued
June 30	Assets	Liabilities	Ratio	Liabilities
1975*	\$51,025	\$69,625	73.3%	\$18,600
1980*	101,832	120,262	84.7	18,430
1985	207,015	215,926	95.9	8,911
1990	399,413	399,089	100.1	(324)
1995(a)	663,593	652,266	101.7	(11,327)
1996(a)	742,076	758,107	97.9	16,031
1997	840,539	824,604	101.9	(15,935)
1998	984,501	907,471	108.5	(77,030)
1999	1,117,497	989,371	113.0	(128,126)
2000(a)	1,219,892	1,199,871	101.7	(20,021)
2001	1,291,338	1,259,564	102.5	(31,774)
2002	1,273,731	1,390,273	91.6	116,542
2003	1,330,584	1,504,125	88.5	173,541
2004	1,417,774	1,684,795	84.2	267,021
2005	1,511,553	1,795,514	84.2	283,961
2006(b)	1,626,741	1,951,295	83.4	324,554
2006(a)	1,626,741	2,000,346	81.3	373,605
2007	1,816,508	2,166,119	83.9	349,611
2008(c)	1,908,414	2,338,826	81.6	430,412
2008(d)	1,908,414	2,413,365	79.1	504,951
2009	1,895,148	2,518,094	75.3	622,946
2010	1,868,093	2,697,288	69.3	829,195

^{*}Valuation date 12/30

Note: Results prior to 2000 are based on reports provided by previous actuarial firm.

⁽a) After changes in benefit provisions and/or actuarial assumption and valuation methods.

⁽b) Before changes in benefit provisions and/or actuarial assumption and valuation methods.

⁽c) Before method changes.

⁽d) After method changes.

Experience Gain/Loss

<u>-</u>	Year Ended June 30, 2010
(1) UAAL* at Start of Year	\$622,946,165
(2) Normal Cost	78,731,389
(3) Contributions	116,481,797
(4) Assumed Investment Income on (1), (2) and (3)	48,227,793
(5) Expected UAAL Before Changes	633,423,550
(6) Effect of Method Changes	-
(7) Effect of Benefit Changes	-
(8) Expected UAAL After Changes	633,423,550
(9) Actual UAAL	829,194,547
(10) Gain(Loss) (8) - (9)	(195,770,997)
(11) Percent of AAL** at Start of Year	(7.8)%

^{*}Unfunded Actuarial Accrued Liability

^{**}Actuarial Accrued Liability

Actuarial Balance Sheet June 30, 2010

Actuarial Assets

Funding value of Plan assets Market value from Plan financial statements Pension Equalization Reserve Smoothed funding value adjustment Funding value of assets	\$1,535,173,679 (543,289) 333,462,723	\$1,868,093,113
Prospective assets (computed value) For normal costs For unfunded actuarial accrued liability	663,689,306 829,194,547	
Total prospective assets	_	1,492,883,853
Total Actuarial Assets	_	\$3,360,976,966
Actuarial Present	Values (Liability)	
Pensions in payment status		\$1,311,929,414*
Vested terminated members		34,342,808
Present active members Allocated to service prior to valuation date Allocated to service after valuation date	\$1,351,015,438 663,689,306	
Total		2,014,704,744
Total Actuarial Present Values (Liability)		\$3,360,976,966

^{*}Includes \$88,791 attributable to pensions being paid to minors.

Comments, Conclusion and Certification

Comment 1: The aggregate experience of the Retirement Plan during the year ended June 30, 2010 was less favorable than expected based upon the long-term assumptions. The primary source of unfavorable experience was the recognized rate of investment return based on the smoothed funding value of assets which was less than assumed. Note that the effect of the negative returns on the market value of assets over the last several years will be phased into the funding value of assets over the next 3 years. In the absence of significant overall favorable experience in investment return and other assumptions, the City's computed contribution rates would be likely to increase over the short term.

Comment 2: Unfunded actuarial accrued liability was amortized over an open period of 20 years, as adopted by the Board for contributions beginning with the 2003/2004 fiscal year.

Conclusion: The Retirement Plan is funding benefits as they accrue in accordance with a sound level percent of payroll funding objective.

Certification: This valuation has been conducted in accordance with generally accepted actuarial principles and practices in compliance with the provisions of the City Charter. Data concerning Retirement Plan benefits, financial transactions and individual members, terminated members, retirees and beneficiaries was provided by your Retirement Program Administrator. This data has been reviewed for reasonableness, but no attempt has been made to audit such information. The actuarial assumptions used in this valuation are reasonably related to the past experience of the Plan and represent reasonable expectations of long-term future experience under the Plan.

Statement of Actuarial Opinion: I, Sandra W. Rodwan, am President of Rodwan Consulting Company. I am a member of the American Academy of Actuaries and I meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Section Three:

Retirement Plan Benefit Provisions



Benefit Provision Summary

Voluntary Retirement (no reduction for age)

Eligibility:

Sum of age and credited service equals 80 or more, age 60 with 10 or more years of credited service or age 62 with 5 or more years of credited service.

Annual Benefit:

Unused sick leave service multiplied by 2% of final average compensation (FAC) plus 2% of FAC times credited service up to 32.5 years plus 1% of FAC times service in excess of 32.5 years plus ½% of FAC times service in excess of 35.5 years. Minimum monthly pension is \$250 (\$500 if member has 15 or more years of service).

Final Average Compensation (FAC)

Average of annual compensation for the period of 3 consecutive years producing the highest average and contained within the last 10 years preceding retirement.

Deferred Retirement

Eligibility:

Termination of City employment prior to age 62 with 5 or more years of credited service.

Annual Benefit:

Accrued regular retirement amount based on credited services, unused sick leave service, and FAC at time of termination, payable beginning at age 62.

Duty Disability Retirement

Eligibility:

Total and permanent disability incurred in line of duty with the City.

Annual Benefit:

Computed in the same manner as the regular retirement amount based on FAC and credited service at time of disability retirement. Minimum is 15% of FAC. Maximum during worker's compensation period is difference between final compensation and annualized workers compensation. At expiration of worker's compensation period, amount is recomputed to include years during which workers compensation was paid.

Non-Duty Disability

Eligibility:

Total and permanent disability after 10 or more years of credited service.

Annual Benefit:

Computed in the same manner as regular retirement amount based on FAC and credited service at time of disability retirement.

Duty Death Before Retirement

Eligibility:

Death in line of duty with the City and compensable under worker's compensation.

Annual Benefit:

To the spouse: Joint and 100% survivor actuarial equivalent of accrued regular retirement amount based on FAC and credited service and unused sick leave service at time of death. Minimum of 10 years of service is credited. To the children of a deceased member with 10 or more years of credited service: each child shall receive a monthly pension of \$200 until adoption, marriage, death or attainment of age 18.

Non-Duty Death Before Retirement

Eligibility:

10 or more years of credited service.

Annual Benefit:

Same as Duty Death Before Retirement.

Pension Equalization Program: On January 1 of each year, persons in receipt of a pension for at least 36 months receive a percentage increase based on the lesser of A) and B):

- A) Phoenix area Consumer Price Index; or
- B) The amount the balance in the Pension Equalization can fully fund.

The increase, if available, is payable beginning with the April 1 payment each year, retroactive to January 1 of the same year.

Member Contributions

5% of pay

City Contributions

Actuarially determined amounts which, together with member contributions, are sufficient to cover both (i) normal costs of the plan, and (ii) financing of unfunded accrued actuarial costs over a selected period of future years.

Section Four:

Actuarial Assumptions And Methods



Actuarial Assumptions

Economic Assumptions

(i) Interest Rate 8.0% (net of expenses)

(ii) Salary Increases

Across-the-Board 5.0%

Merit and Longevity Age-related rates

Sample Annual Rates of Salary Increase

Age	Base (Inflation)	Competition/ Productivity	Merit and Longevity	Total
20	4.5%	0.5%	3.8%	8.8%
25	4.5%	0.5%	3.1%	8.1%
30	4.5%	0.5%	2.7%	7.7%
35	4.5%	0.5%	2.4%	7.4%
40	4.5%	0.5%	2.2%	7.2%
45	4.5%	0.5%	1.6%	6.6%
50	4.5%	0.5%	1.1%	6.1%
55	4.5%	0.5%	0.6%	5.6%
60	4.5%	0.5%	0.1%	5.1%
65	4.5%	0.5%	0.0%	5.0%

Demographic Assumptions

(i) Mortality

RP 2000 Mortality Table Combined Healthy

Sample	Value of \$1 Annually for Life		Futur Expectano	
Ages	Men	Women	Men	Women
50	\$11.34	\$11.61	30.8	33.6
55	10.72	11.10	26.2	29.0
60	9.92	10.37	21.8	24.4
65	8.96	9.53	17.6	20.2
70	7.86	8.55	13.9	16.3
75	6.65	7.44	10.6	12.8
80	5.37	6.34	7.8	9.7

These rates were first used for the June 30, 2006 valuation.

(ii) Rates of Disability

Age-related rates

Sample Ages	Percent of Active Members Becoming Disabled Within Next Year
20	0.03
25	0.03
30	0.04
35	0.05
40	0.12
45	0.20
50	0.40
55	0.80
60	1.00

These rates were first used for the June 30, 2006 valuation.

(iii) Termination of Employment

Service related rates for first five years of employment. Age-related rates for after first five years of employment

Sample Ages	Years of Service	% of Active Members Separating Within Next Year
ALL	0	20.0%
	1	18.0
	2	12.0
	3	9.0
	4	8.0
25	5 & Over	7.0
30		6.0
35		5.0
40		3.0
45		3.0
50		2.5
55		2.5
60		2.5
65		2.5

These rates were first used for the June 30, 2006 valuation.

(iv) Retirement Rates

Age-related rates

Percent of Active Members Retiring Within Year Following Attainment of Indicated Retirement Age

Retirement	Percent		
Age	Retiring		
50	25		
51	25		
52	25		
53	25		
54	25		
55	35		
56	25		
57	25		
58	25		
59	25		
60	25		
61	20		
62	35		
63	30		
64	25		
65	45		
66	30		
67	30		
68	30		
69	30		
70	100		

These rates were first used for the June 30, 2006 valuation.

Active members were assumed to be eligible for an unreduced pension when the sum of age and credited service equals 80 or more, after attaining age 60 with 10 or more years of service, or after attaining age 62 with 5 or more years of service.

Compensatory service credits and lump sum payments for unused vacation and compensatory time were assumed to increase the present value of normal retirement benefits by 9.0%.

Percent married. Ninety percent of active members were assumed to be married. Spouses of males were assumed to be 3 years younger; spouses of females were assumed to be 3 years older.

Actuarial Method Used for the Valuation

Normal Cost. Normal cost and the allocation of actuarial present values between service rendered before and after the valuation date were determined using an individual entry-age actuarial cost method having the following characteristics:

- ❖ The annual normal costs for each individual active member, payable from date of hire to date of retirement, are sufficient to accumulate the value of the member's benefit at the time of retirement;
- ❖ Each annual normal cost is a constant percentage of the member's year-by-year projected covered pay.

Financing of Unfunded Actuarial Accrued Liability. The actuarial accrued liability was amortized as a level percent-of-payroll over 20 years and added to the computed normal cost.

Section Five: Valuation Data



Asset Summary

Statement of Assets

As of June 30, 2010, the market value was reported to be \$1,535,173,679.

Reconciliation of the Book Value of Assets

a.	Book Value as of June 30, 2009	\$1,595,595,529
b.	Income	
	(i) Member Contributions	30,240,299
	(ii) Employer Contributions	86,241,498
	(iii) Investment Income (Net of Expenses)	63,067,369
	(iv) Inter-System Transfers	4,617,956
	(v) Total Income	184,167,122
c.	Disbursements to Members	
	(i) Pensions	133,521,643
	(ii) Refunds of Member Contributions	2,876,987
	(iii) Inter-System Transfers	1,699,964
	(iv) Administrative expense	0
	(v) Total Disbursements to Members	138,098,594
d.	Book Value as of June 30, 2010	\$1,641,664,057

Investment Allocation

The reported asset allocation based on market value was as follows:

a.	Cash and Short Term	\$111,628,624
b.	Fixed Income	458,859,322
c.	Equity	913,417,053
d.	Real Estate	135,755,384
e.	Total Market Value of Assets as of June 30, 2010	1,619,660,383
f.	Less: Accounts Payable	84,486,704
g.	Market Value of Assets as of June 30, 2010	\$1,535,173,679

Funding Value of Assets

As of June 30, 2010, the market value of assets was reported to be \$1,535,173,679 and the net funding value of assets (smoothed market value) was \$1,868,093,113 (the gross funding value before deducting the Pension Equalization Reserve was \$1,868,636,402). The funding value spreads the difference between the actual and expected 8% investment return over a four year period.

Funding Value of Assets	6/30/2009	6/30/2010
A. Gross Funding Value Beginning of Year	\$1,925,244,776	\$1,896,271,626
B. Market Value End of Year	1,409,558,244	1,535,173,679
C. Market Value Beginning of Year	1,810,669,165	1,409,558,244
	(2.2.2.1.2.00.2)	(1.5.000.011)
D. Non-investment Net Cash Flow	(25,245,802)	(16,998,841)
E. Investment Income		
E. Investment income E1. Market Total B-C-D	(375,865,119)	142,614,276
E2. Amount for Immediate Recognition	153,009,750	151,021,776
E3. Amount for Phased-In Recognition: E1-E2	, ,	· · ·
E3. Amount for Phased-in Recognition: E1-E2	(528,874,869)	(8,407,500)
F. Phased-In Recognition of Investment Income		
F1. Current Year: 0.25 x E3	(132,218,717)	(2,101,875)
F2. First Prior Year	(62,719,664)	(132,218,717)
F3. Second Prior Year	35,382,096	(62,719,664)
F4. Third Prior Year	2,819,187	35,382,096
F5. Total Phased-In Amount	(156,737,098)	(161,658,160)
H. Initial Adjustment*	n/a	n/a
I. Gross Funding Value End of Year: A+D+E2+F5+H	1,896,271,626	1,868,636,402
		7.12.200
J. Pension Equalization Reserve	1,123,297	543,289
K. Net Funding Value End of Year: I-J	1,895,148,329	1,868,093,113
L. Difference Between Market and Gross Funding Value	\$(486,713,382)	\$(333,462,723)
*25% of the difference between beginning of year market value and funding value for FY 02/03. Last installment was 6/30/2006.		

Reserve Balances – (Book Value)

Reserves (Book Value)	<u>June 30, 2010</u>	<u>June 30, 2009</u>		
Employees' Savings Fund	\$445,141,268	\$446,039,323		
Pension Accumulation Fund	(32,003,737)	37,339,351		
Pension Reserve Fund	1,227,983,237	1,111,093,558		
Pension Equalization Fund	543,289	1,123,297		
Retirement Plan Totals	\$1,641,664,057	\$1,595,595,529		

Participant Summary

Retirees and Beneficiaries Included in the Valuation

There were 4,931 retirees and beneficiaries included in the valuation, with annual pensions totaling \$138,272,993.

Retirees and Beneficiaries - June 30, 2010

	Age & Service			visability and ath-In-Service		Totals
Attained Age	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions
Under 20	1	\$5,944	12	\$30,899	13	\$36,843
20-24	1	12,551			1	12,551
25-29	1	12,552	1	18,427	2	30,979
30-34	3	20,950			3	20,950
35-39	5	46,292			5	46,292
40-44	4	64,196	5	77,494	9	141,690
45-49	6	142,946	22	335,605	28	478,551
50-54	162	7,655,482	46	781,573	208	8,437,055
55-59	482	21,241,425	76	1,260,509	558	22,501,934
60-64	936	33,331,107	68	1,313,015	1004	34,644,122
65-69	893	25,500,715	49	694,435	942	26,195,150
70-74	714	17,522,107	43	646,328	757	18,168,435
75-79	517	11,579,629	32	482,599	549	12,062,228
80-84	434	8,735,800	12	175,421	446	8,911,221
85-89	263	4,645,736	15	159,740	278	4,805,476
90-94	92	1,313,446	7	68,960	99	1,382,406
95-99	27	366,414	1	14,363	28	380,777
Over 100	1	16,333			1	16,333
Totals	4,542	\$132,213,625	389	\$6,059,368	4,931	\$138,272,993

Also included in the valuation were 98 alternate payees with annual benefits totaling \$1,096,954.

Pensions Being Paid

Valuation Date		Annual Pension	Average	Discounted Valu	o of Ponsions
June 30	No.	Payroll	Pension Pension	Discounted Value of Pension Total Average	
1970	340	\$ 473,361	\$ 1,392	\$ 5,037,596	\$14,816
1975	659	1,677,417	2,545	16,531,074	25,085
1980	1,081	3,945,764	3,650	38,592,913	35,701
1985	1,595	8,628,828	5,410	78,069,444	48,946
1990	2,153	18,450,025	8,569	165,804,947	77,011
1991	2,253	20,161,971	8,949	179,021,242	79,459
1992	2,344	22,555,546	9,627	203,512,080	86,823
1993	2,441	24,578,907	10,069	213,689,712	87,542
1994	2,517	26,631,668	10,581	231,490,008	91,971
1995	2,603	29,283,567	11,250	253,370,388	97,338
1996	2,678	32,202,770	12,025	278,600,868	104,033
1997	2,777	35,873,253	12,918	312,952,740	112,695
1998	2,881	40,123,813	13,927	351,548,940	122,023
1999	2,998	44,211,408	14,747	389,427,924	129,896
2000	3,171	52,881,149	16,676	477,415,704	150,557
2001	3,328	60,274,419	18,111	549,592,898	165,142
2002	3,457	66,370,134	19,199	605,227,344	175,073
2003	3,592	72,221,170	20,106	659,633,613	183,640
2004	3,743	79,318,123	21,191	737,683,525	197,083
2005	3,907	85,717,799	21,940	798,413,514	204,355
2006	4,069	94,797,214	23,297	892,122,786	219,249
2007	4,217	102,356,444	24,272	964,006,083	228,600
2008	4,417	113,433,365	25,681	1,066,886,398	241,536
2009	4,669	126,219,565	27,034	1,193,391,096	255,599
2010	4,931	138,272,993	28,042	1,311,929,414	266,057

Note: 1970-1975 Valuations are as of December 31

Schedule of Retirees and Beneficiaries Added To and Removed From Rolls

_		Added		Ren	noved	ved Rolls End of Year			
Year <u>Ended</u>	<u>No.</u>	Annual New (+000)	Pensions PEP* (+000)	<u>No.</u>	Annual Pensions (+000)	<u>No.</u>	Annual Pensions (+000)	Average Annual Pensions	% Increase In Annual <u>Pensions</u>
2010	432	\$15,139	\$120	170	\$3,206	4,931	\$138,273	\$28,042	9.5%
2009	426	14,195	1,594	174	3,002	4,669	126,220	27,034	11.3
2008	348	10,935	2,874	148	2,732	4,417	113,433	25,681	10.8
2007	290	8,205	1,519	142	2,165	4.217	102,356	24,272	8.0
2006	309	9,247	1,976	147	2,144	4,069	94,797	23,297	9.0
2005	314	7,795	1,159	150	2,554	3,907	85,718	21,940	8.1
2004	296	7,610	1,727	145	2,122	3,743	79,318	21,191	9.1
2003	259	6,720	1,066	124	1,935	3,592	72,221	20,106	8.8
2002	264	5,999	1,786	135	1,689	3,457	66,370	19,199	10.1
2001	240	6,665	1,559	83	831	3,328	60,274	18,111	14.0
2000	276	8,661	1,056	102	1,047	3,171	52,881	16,671	13.1
1999	194	4,173	719	77	805	2,998	44,211	14,747	10.2
1998	220	3,985	1,461	116	1,205	2,881	40,124	13,927	11.8
1997	213	3,753	1,180	114	1,262	2,777	35,873	12,918	11.4
1996	204	2,754	1,266	129	1,100	2,678	32,203	12,025	10.0
1995	188	2,569	913	102	830	2,603	29,284	11,250	10.0
1994	167	2,265	628	91	841	2,517	26,632	10,581	8.4
1993	183	2,265	525	86	788	2,441	24,579	10,069	9.0
1992	183	2,580	367	92	554	2,344	22,556	9,627	11.9
1991	165	2,159		65	447	2,253	20,162	8,949	9.3

^{*}Pension Equalization Increase

Retirees and Beneficiaries - June 30, 2010 Type of Pensions

		Annual
Type of Pensions	No.	Pensions
Age and Service Pensions		
Straight Life	1,492	\$44,749,539
100% Joint and Survivor	1,208	37,713,895
50% Joint and Survivor	200	6,535,933
10 Years Certain and Life	200	5,797,041
100% Joint and Survivor with Pop-Up	507	15,731,690
50% Joint and Survivor with Pop-Up	352	11,825,437
Total Age and Service Pensions	3,959	122,353,535
Disability Pensions		
Straight Life	48	763,160
100% Joint and Survivor	61	948,458
50% Joint and Survivor	6	92,307
10 Years Certain and Life	18	259,723
100% Joint and Survivor with Pop-Up	38	481,130
50% Joint and Survivor with Pop-Up	6	137,306
Duty Disability Pensions		
Straight Life	13	165,873
100% Joint and Survivor	21	211,082
50% Joint and Survivor	2	34,082
10 Years Certain and Life	5	26,687
100% Joint and Survivor with Pop-Up	18	234,370
50% Joint and Survivor with Pop-Up	2	29,656
Total Disability Pensions	238	3,383,834
Death-In-Service		
Spouses - Death-In-Service	134	2,567,842
Children - Death-In-Service	12	30,899
Total Death-In-Service	146	2,598,741
Beneficiaries		
Age & Service Beneficiaries	583	9,860,090
Disability Beneficiaries	5	76,793
Total Beneficiaries	588	9,936,883
Total Pensions Paid	4,931	\$138,272,993

Active Member Summary

Active Members, June 30, 2010 - Age and Service Distribution

	Service							
Age	0-4	5-9	10-14	15-19	20-24	25-29	Over 30	Total
20-24	181	12						193
25-29	375	159	10					544
30-34	356	331	149	3				839
35-39	328	368	319	93	8			1,116
40-44	277	318	311	203	134	21		1,264
45-49	279	291	310	238	312	191	17	1,638
50-54	188	252	254	215	299	257	72	1,537
55-59	116	187	222	200	227	102	74	1,128
60-64	63	97	107	82	89	53	42	533
Over 65	21	21	22	15	13	9	3	104
Totals	2,184	2,036	1,704	1,049	1,082	633	208	8,896

Active Members – Three-Year Summary

	2010	2009	2008
Active Members	8,896	9,317	9,624
Valuation Payroll	\$550,174,824	\$539,468,175	\$566,512,007
Average Compensation	\$61,845	\$57,901	\$58,865
Average Age (yrs.)	45.7	45.3	44.8
Average Service (yrs.)	12.4	11.9	11.5

Inactive Vested Members - June 30, 2010

Attained		Estimated		
Age	No.	Annual Benefit		
25-29	8	\$41,195		
30-34	31	207,434		
35-39	97	870,256		
40-44	128	1,348,619		
45-49	101	1,470,131		
50-54	150	1,863,505		
55-59	128	1,579,106		
60-64	64	636,375		
Totals	707	\$8,016,621		

Section Six:

Accounting Disclosures



GASB Statement No. 25 Supplementary Information

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Valuation Date: June 30, 2010

Actuarial Cost Method: Individual Entry Age

Amortization method: Level percent of payroll, open

Remaining amortization period: 20 years

Asset valuation method: Four-year smoothed market value

Actuarial assumptions:

Investment rate of return 8.0%
Projected salary increases* 5.0%-8.8%
* Includes inflation at 4.5%

Membership data as of June 30, 2010 is indicated in Section Five of this report.

Actuarial Accrued Liability as of June 30, 2010:

Actuarial Accrued Liability

Active members	\$1,351,015,438
Retirees and beneficiaries	1,311,929,414
Vested terminated members	34,342,808
Total Actuarial Accrued Liability	2,697,287,660

Actuarial Value of Assets 1,868,093,113

Unfunded Actuarial Accrued Liability \$829,194,547

Analysis of Funding Progress (\$ amounts +000)

Valuation Date June 30	(1) Funding Value of Assets	(2) Actuarial Accrued Liability	(3) Percent Funded (1)/(2)	(4) Unfunded AAL (2)-(1)	(5) Annual Covered Payroll	(6) UAAL As a % Of Covered Payroll (4)/(5)
1997	\$ 840,539	\$ 888,968	94.6%	\$ 48,429	\$ 294,678	16.4%
1998	984,501	973,048	101.2	(11,453)	322,475	-
1999	1,117,497	1,044,425	107.0	(73,072)	336,153	-
2000	1,219,892	1,199,871	101.7	(20,021)	360,654	-
2001	1,291,338	1,259,564	102.5	(31,774)	376,913	
2002	1,273,731	1,390,273	91.6	116,542	404,414	28.8
2003	1,330,584	1,504,125	88.5	173,541	416,472	41.7
2004	1,417,774	1,684,795	84.2	267,021	445,348	60.0
2005	1,511,553	1,795,514	84.2	283,962	467,998	60.7
2006	1,626,741	2,000,346	81.3	373,605	497,105	75.2
2007	1,816,508	2,166,119	83.9	349,611	535,079	65.3
2008	1,908,414	2,413,365	79.1	504,951	566,512	89.1
2009	1,895,148	2,518,094	75.3	622,946	539,468	115.5
2010	1,868,093	2,697,288	69.3	829,195	550,175	150.7

Schedule of Employer Contributions

Valuation Date	Fiscal Year	Annual Required	Actual Annual
June 30	Ended June 30	Contribution	Contribution
1990	1992	\$19,582,694	100%
1991	1993	21,023,444	100
1992	1994	21,495,978	100
1993	1995	20,607,423	100
1994	1996	21,218,199	100
1995	1997	23,208,480	100
1996	1998	30,123,972	100
1997	1999	29,185,895	100
1998	2000	26,802,219	100
1999	2001	22,329,387	100
2000	2002	28,294,889	100
2001	2003	27,819,507	100
2002	2004	39,563,747	100
2003	2005	43,374,921*	100
2004	2006	52,973,606*	100
2005	2007	58,151,324	100
2006	2008	64,198,136	100
2007	2009	66,382,987*	100
2008	2010	86,241,498*	100
2009	2011	92,145,262	
2010	2012	106,483,325	

 $[*]Excluding\ amount\ allocated\ to\ Excess\ Benefit\ Arrangement.$