

**MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM
STATE OF RHODE ISLAND**

ACTUARIAL VALUATION REPORT
AS OF JUNE 30, 2009

July 14, 2010

Retirement Board
40 Fountain Street, First Floor
Providence, RI 02903-1854

Dear Members of the Board:

Subject: Actuarial Valuation of MERS as of June 30, 2009

This is the June 30, 2009 actuarial valuation of the Municipal Employees' Retirement System (MERS). This report describes the current actuarial condition of MERS, determines recommended employer contribution rates, and analyzes changes in these contribution rates. Separate liabilities and contribution rates are determined for each of the participating units. Valuations are prepared annually as of June 30, the last day of the plan year.

Under Rhode Island General Laws, the employer contribution rates for the units participating in MERS are certified annually by the State of Rhode Island Retirement Board. These rates are determined actuarially, based on the plan provisions in effect as of the valuation date and the actuarial assumptions and methodology adopted by the Board. Where known, we have also reflected adoption of a COLA provision or the 20-year retirement provision, even if the effective date is after the valuation date. The Board's current policy is that the contribution rates determined by a given actuarial valuation become effective two years after the valuation date. For example, the rates determined by this June 30, 2009 actuarial valuation will be applicable for the year beginning July 1, 2011 and ending June 30, 2012.

Financing objectives and funding policy

The actuarial cost method and the amortization periods are set by board policy. Contribution rates and liabilities are computed using the Entry Age actuarial cost method. The employer contribution rate is the sum of two pieces: the employer normal cost rate and the amortization rate. The normal cost rate is determined as a percent of pay. The employer normal cost rate is the difference between this and the member contribution rate. The amortization rate is determined as a level percent of pay. It is the amount required to amortize the unfunded actuarial accrued liability over a closed period (30 years as of June 30, 1999; 20 years as of June 30, 2009). The amortization rate is adjusted for the two-year deferral in contribution rates.

Progress toward realization of financing objectives

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) is a standard measure of a plan's funded status. In the absence of benefit improvements, it should increase over time, until it reaches 100%. The funded ratio of the average unit in MERS is 88.3%, decreased from 92.8% in the prior valuation.

There are currently 109 units participating in MERS, 66 covering general employees and 43 covering police and/or fire employees. Of these 109 units, 7 had no change in contribution rate, 11 had their rate decrease, and 91 had their rate increase. Eight units have no required contribution rate. Of the 66 general employee units, 56 had rate increases, while 35 of the 43 police/fire units had rate increases. An analysis of the changes in the employer contribution rates appears on Table 5. Actuarial losses on assets were responsible for most of the increases.

Benefit provisions

The benefit provisions reflected in this valuation are those which were in effect on June 30, 2009. We have also reflected the known adoption of COLA B, COLA C, or the 20-year retirement provision, even if the effective date and/or the adoption date occurred after the valuation date. The benefit provisions are summarized in Appendix B, and each unit's individual election is indicated by a code in column 4 on Table 1. Changes in elections are discussed on page 5.

Assumptions and methods

All assumptions and methods are described in Appendix A and are unchanged from the last valuation. The actuarial assumptions were last changed as a result of the experience study approved by the Board on June 13, 2007. We believe the assumptions are internally consistent and are reasonable, based on the actual experience of MERS.

The results of the actuarial valuation are dependent on the actuarial assumptions used. Actual results can and almost certainly will differ, as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution rates and funding periods.

The actuarial assumptions and methods used in this report comply with the parameters for disclosure that appear in GASB 25.

Data

The System's staff supplied data for retired, active and inactive members as of June 30, 2009. We did not audit this data, but we did apply a number of tests to the data, and we concluded

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that it was reasonable and consistent with the prior year's data. The System's staff also supplied asset data as of June 30, 2009.

Certification

All of our work conforms with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with the requirements of Rhode Island state law and, where applicable, the Internal Revenue Code, ERISA, and the Statements of the Governmental Accounting Standards Board.

The undersigned are independent actuaries. All three are Enrolled Actuaries and Members of the American Academy of Actuaries. They all meet the Qualification Standards of the American Academy of Actuaries and they are experienced in performing valuations for large public retirement systems.

Sincerely,

Gabriel, Roeder, Smith & Company



Joseph P. Newton, FSA, MAAA
Senior Consultant



J. Christian Conradi, ASA, MAAA
Senior Consultant



Mark R. Randall, MAAA, EA
Executive Vice President

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Contribution Rates

The employer contribution rates for MERS are determined actuarially. The rates determined in this valuation become effective two years after the valuation date, in this case as of July 1, 2011.

Each rate consists of two pieces: the employer normal cost rate and the amortization rate. The normal cost and actuarial accrued liability are determined using the Entry Age actuarial cost method. The employer normal cost is the difference between (i) the normal cost rate, determined as a level percent of pay, and (ii) the member contribution rate. The unfunded actuarial accrued liability is amortized as a level percent of payroll over a closed period. The period is 30 years as measured from June 30, 1999, or 20 years as of the current valuation date. The amortization rate is adjusted for the fact that the contribution rate set by this valuation is deferred for two years, and other amortization rates may apply for the next two years.

Table 1 shows the member contribution rate, the employer normal cost rate, the amortization rate and the total employer contribution rate. These rates are applicable to the fiscal year ending June 30, 2012. Table 2 compares the total employer contribution rate with those rates determined in the two prior actuarial valuations. Table 3 shows the components used to determine the employer contribution rate in dollar amounts. Finally, Table 5 shows the major components of the rate change for each unit.

Financial Data and Experience

Assets for MERS are held in trust and are commingled with those of several other plans and programs—including the Employees' Retirement System of Rhode Island—for investment purposes. The State Treasurer is responsible for setting the asset allocation policy and for investing the funds. The System's staff determines a reserve for each unit, reflecting that unit's contributions and benefit payments, and reflecting the unit's share of the earnings, determined on a market-value basis.

Table 6a shows the development of actuarial value of assets in aggregate. The actuarial value of assets is determined by recognizing any difference between actual return and expected return (8.25% of market value) over a five-year period, 20% in each year. The market value for MERS as of June 30, 2009 was \$892 million while the actuarial value was \$1,196 million (134.1% of market). Therefore, a cumulative total of \$304 million in actuarial losses related to investment return has been deferred and will be recognized in the next four valuations. This would, all other things equal, tend to decrease future contribution rates slightly.

Table 4a shows the market and actuarial values of assets for each unit and Table 4b shows the reconciliation of the market value of assets for each unit for the fiscal year ending June 30, 2009. Table 6b shows a historical summary of the return rates. The fund earned -19.8% during the year ending June 30, 2009 on a market value basis and returned 2.4% on an actuarial value basis. The average annual return based on the market value of assets over the last ten years (July 1, 1999 – June 30, 2009) was 1.9%. This is less than the current 8.25% annual investment return assumption. The average annual return based on the actuarial value of assets over the same period was 4.9%. The returns above are net of both investment and administrative expenses, so may differ from other information provided by the General Treasurer's office or the investment managers and advisors.

The System's staff provided all of the financial information used in this report.

Member Data

The System's staff supplied member data as of June 30, 2009. While we did not audit this data, we did perform various tests to ensure that it was internally consistent, consistent with the prior year's data, and was reasonable overall. Information provided for active members includes: name, identification number, sex, a code indicating whether the member was active or inactive, date of birth, service, salary, date of last contribution, and accumulated member contributions without interest. For retired members, data includes: name, an identification number, sex, date of birth, date of retirement, amount of benefit, the amount of adjustment after age 62 for anyone electing the Social Security option, a code indicating the option elected and the type of retiree (service retiree, disabled retiree, beneficiary), and if applicable, the joint pensioner's date of birth and sex.

Table 9 shows active member statistics for each unit, and Table 10 shows statistics on retirees and beneficiaries for each unit. Tables 11 and 12 show the distribution of active members by age and service, separately for general employees and for police and fire employees. Tables 13, 14, and 15 show summaries of the total membership data for general employee units (Table 13), for police and fire units (Table 14), and for all MERS units (Table 15).

The total payroll shown on the statistical tables is the amount that was supplied by the System's staff, annualized if necessary. For the cost calculations, the pays were adjusted in accordance with the actuarial assumptions to reflect one year's salary increase.

Benefit Provisions

Appendix B includes a summary of the benefit provisions for MERS. There were no material changes in the benefit provisions since the preceding valuation.

Individual units may elect certain optional provisions, including an annual benefit increase of 3% of the original benefit amount (i.e., a “simple” increase) applicable to future retirees only (COLA C), the same increase applicable to both current and future retirees (COLA B), or the 20-year retirement provision for police/fire units. There was no changes reflected in this valuation:

No new unit joined MERS since the prior valuation. No units closed or withdrew or subdivided.

There are no ancillary benefits—e.g., cost of living benefits—that are currently provided by a source independent of MERS but that might be deemed a MERS liability if continued beyond the availability of funding by the current funding source.

Actuarial Methods and Assumptions

Appendix A includes a summary of the actuarial assumptions and methods used in this valuation. Costs are determined using the Entry Age Normal actuarial cost method, this method was adopted effective June 30, 1999.

The method used to determine the actuarial value of assets is a five-year smoothed market method. This technique is further described in Section III of Appendix A.

All assumptions and methods are described in Appendix A and are unchanged from the last valuation. The actuarial assumptions were approved by the Board on June 13, 2007. We believe the assumptions are internally consistent and are reasonable, based on the actual experience of MERS.

GASB 25 and Funding Progress

Accounting requirements for MERS are set by Governmental Accounting Standards Board Statement No. 25 (GASB 25). Table 7 shows a summary of the funded ratios and other information for MERS as of June 30, 2009.

GASB 25 requires that plans calculate an Annual Required Contribution (ARC), and, if actual contributions received are less than the ARC, this must be disclosed. The ARC must be calculated in accordance with certain parameters. In particular, it must include a payment to amortize the unfunded actuarial accrued liability. This amortization payment must be computed using a funding period no greater than 30 years. Further, the amortization payment included in the ARC may be computed as a level amount, or it may be computed as an amount that increases with payroll. However, if payments are computed on a level percent of payroll approach, the payroll growth assumption may not anticipate future membership growth.

For MERS, the calculated contribution rate shown in Table 1 is the ARC. The amortization period is 30 years as of June 30, 1999, and there are 20 years remaining as of June 30, 2009. The period and amortization method comply with the requirements of GASB 25. The payroll growth rate used in the amortization calculations does not include any allowance for membership growth.

Other Observations and Comments

- Scituate Police has no active members, but does have retirees/beneficiaries covered by MERS. The actuarial value of assets is larger than the actuarial liability, so no funding is required.
- Tiogue Fire and Lighting has no active members, but it has an inactive member. The unit's liability is less than the actuarial value of its assets, so no funding is required.
- Albion (Fire Administration) has no active employees but it has inactive members. Its liabilities exceed its assets, and we have calculated a fixed dollar amount of contribution of \$7,940 for the year ending June 30, 2012.
- East Greenwich (1152, 1153) and Town of East Greenwich-COLA-NCE (1157, 1158) have been combined. Members of East Greenwich now have COLA C. The contribution rate for FY2012 has been set based on the combination of the two groups. However, because the two groups had not been combined as of the valuation date, we have kept the actuarial information and statistics separate for this report.
- For Cranston Police (1114) and Cranston Fire (1115), we have estimated, based on information provided by the staff, the amount of longevity and holiday pay received by active members, and we have used these amounts in determining the benefits and liabilities, but not the contributions. (Compensation shown in this report for these two units is the compensation that they contribute on, i.e., the base compensation.) Contributions are not collected on these two amounts, but benefits are determined including these amounts in compensation.
- Other changes made between this valuation and July 1, 2011 such as units adopting new benefits, mergers of units, spin offs from one unit into two units, etc. will also result in revisions of contribution rates.

**Contribution Rates
 For Fiscal Year Ending June 30, 2012**

Old Unit Number	New Unit Number	Unit	Code(s)	Member Rate	Employer Rate		
					Employer Normal Cost	Amortization Rate	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
General Employee Units							
3002	1012 1019	Bristol	B	7.00%	5.16%	9.26%	14.42%
3003	1032 1033	Burrillville	C	7.00%	6.13%	(1.15%)	4.98%
3004	1052	Central Falls		6.00%	4.95%	4.10%	9.05%
3005	1082	Charlestown	C	7.00%	5.21%	7.27%	12.48%
3007	1112 1113	Cranston	B	7.00%	6.37%	(0.47%)	5.90%
3008	1122 1123	Cumberland		6.00%	4.81%	4.87%	9.68%
3009	1152 1153	East Greenwich	C	7.00%	6.16%	(2.45%)	3.71%
3010	1162 1163	East Providence	B	7.00%	5.75%	12.33%	18.08%
3011	1183	Exeter/West Greenwich	B	7.00%	6.49%	4.31%	10.80%
3012	1192 1193	Foster		6.00%	5.44%	2.63%	8.07%
3013	1212 1213	Glocester	C	7.00%	6.26%	4.07%	10.33%
3014	1262	Hopkinton	C	7.00%	7.26%	(2.46%)	4.80%
3015	1272 1273	Jamestown	C	7.00%	5.91%	5.52%	11.43%
3016	1282 1283	Johnston	C	7.00%	6.68%	6.15%	12.83%
3017	1302 1303	Lincoln		6.00%	5.04%	1.39%	6.43%
3019	1322 1323	Middletown	C	7.00%	5.78%	5.44%	11.22%
3021	1352 1353 1354	Newport	B	7.00%	5.56%	11.52%	17.08%
3022	1342 1343	New Shoreham	B	7.00%	6.01%	2.38%	8.39%
3023	1372 1373	North Kingstown	C	7.00%	6.15%	7.29%	13.44%
3024	1382 1383	North Providence		6.00%	4.58%	(3.61%)	0.97%
3025	1392 1393	North Smithfield	B	7.00%	6.49%	(4.72%)	1.77%
3026	1412 1413	Pawtucket	C	7.00%	5.85%	5.96%	11.81%
3027	1515	Union Fire District		6.00%	4.38%	1.07%	5.45%
3029	1452	Richmond		6.00%	5.85%	1.89%	7.74%
3030	1462 1463	Scituate	B	7.00%	6.28%	7.37%	13.65%
3031	1472 1473	Smithfield	C	7.00%	6.77%	(0.35%)	6.42%
3032	1492 1493	South Kingstown	B	7.00%	6.11%	2.48%	8.59%
3033	1532 1533	Tiverton	C	7.00%	6.73%	(4.06%)	2.67%
3034	1562	Warren	C	7.00%	4.85%	9.93%	14.78%
3036	1622 1623	Westerly		6.00%	2.67%	57.37%	60.04%
3037	1602	West Greenwich	C	7.00%	6.38%	8.08%	14.46%
3039	1632 1633	Woonsocket	B	7.00%	6.14%	(2.70%)	3.44%
3040	1073	Chariho School District	C	7.00%	5.95%	4.99%	10.94%
3041	1203	Foster/Glocester	B	7.00%	6.73%	6.52%	13.25%
3042	1528	Tiogue Fire & Lighting	C,5	7.00%	0.00%	0.00%	0.00%
3043	1336	Narragansett Housing	C	7.00%	4.95%	3.07%	8.02%
3045	1098	Coventry Lighting District	C	7.00%	5.41%	(172.49%)	0.00%
3046	1242	Hope Valley Fire	C	7.00%	5.58%	(2.93%)	2.65%
3050	1156	East Greenwich Housing	C	7.00%	6.92%	4.40%	11.32%
3051	1116	Cranston Housing	C	7.00%	6.07%	(1.77%)	4.30%
3052	1166	East Providence Housing	B	7.00%	7.24%	(4.70%)	2.54%
3053	1416	Pawtucket Housing	B	7.00%	5.75%	(12.23%)	0.00%
3056	1126	Cumberland Housing	C	7.00%	5.95%	1.48%	7.43%
3057	1306	Lincoln Housing	B	7.00%	7.86%	0.64%	8.50%
3059	1016	Bristol Housing		6.00%	4.26%	(15.81%)	0.00%
3065	1036	Burrillville Housing	B	7.00%	6.73%	(3.03%)	3.70%
3066	1386	North Providence Housing	B	7.00%	6.44%	18.99%	25.43%

**Contribution Rates
 For Fiscal Year Ending June 30, 2012**

Old Unit Number	New Unit Number	Unit	Code(s)	Member Rate	Employer Rate		
					Employer Normal Cost	Amortization Rate	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
3067	1177	East Smithfield Water	C	7.00%	5.90%	(6.80%)	0.00%
3068	1227	Greenville Water	B	7.00%	5.62%	(8.22%)	0.00%
3069	1356	Newport Housing	C	7.00%	6.19%	8.01%	14.20%
3071	1566	Warren Housing	B	7.00%	7.76%	(5.68%)	2.08%
3072	1286	Johnston Housing		6.00%	5.46%	(1.41%)	4.05%
3077	1538	Tiverton Local 2670A	C	7.00%	6.30%	0.88%	7.18%
3078	1002 1003 1007 1009	Barrington COLA	C	7.00%	6.14%	(1.08%)	5.06%
3079	1096	Coventry Housing		6.00%	4.86%	(0.40%)	4.46%
3080	1496	South Kingstown Housing	C	7.00%	7.14%	(2.59%)	4.55%
3081	1403	N. RI Collaborative Adm. Services	C	7.00%	6.76%	3.11%	9.87%
3083	1616	West Warwick Housing	B	7.00%	5.39%	3.32%	8.71%
3084	1476	Smithfield Housing		6.00%	4.21%	(3.68%)	0.53%
3094	1478	Smithfield COLA	C	7.00%	5.75%	1.68%	7.43%
3096	1056	Central Falls Housing	C	7.00%	5.74%	4.86%	10.60%
3098	1293	Lime Rock Administrative Services		6.00%	3.53%	3.89%	7.42%
3099	1063	Central Falls Schools	C	7.00%	6.94%	2.45%	9.39%
3100	1023	Bristol/Warren Schools	B	7.00%	6.31%	5.80%	12.11%
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	7.00%	6.16%	(2.45%)	3.71%
3102	1712	Harrisville Fire District (ADMIN)	C	7.00%	5.13%	4.31%	9.44%
General Employee Units Averages				6.90%	5.97%	3.51%	9.59%
Police & Fire Units							
4016	1285	Johnston Fire	D	8.00%	9.10%	0.09%	9.19%
4029	1454	Richmond Police	6	7.00%	8.40%	1.82%	10.22%
4031	1474	Smithfield Police	C,D	9.00%	11.74%	8.64%	20.38%
4042	1555	Valley Falls Fire	D	8.00%	8.92%	0.53%	9.45%
4047	1395 1435	North Smithfield Voluntary Fire	B,D	9.00%	12.24%	3.47%	15.71%
4050	1155	East Greenwich Fire	C,D	9.00%	12.15%	7.59%	19.74%
4054	1154	East Greenwich Police	C,D	9.00%	12.29%	4.28%	16.57%
4055	1375	North Kingstown Fire	C,D	9.00%	11.98%	5.68%	17.66%
4056	1374	North Kingstown Police	C,D	9.00%	11.86%	10.08%	21.94%
4058	1385	North Providence Fire	D	8.00%	8.55%	3.31%	11.86%
4059	1008	Barrington Fire (25)	C	8.00%	10.18%	3.50%	13.68%
4060	1004	Barrington Police	C,D	9.00%	11.88%	18.53%	30.41%
4061	1005	Barrington Fire (20)	C,D	9.00%	11.86%	(0.26%)	11.60%
4062	1564 1565	Warren Police & Fire	C,D	9.00%	11.73%	14.10%	25.83%
4063	1494	South Kingstown Police	B,1	9.00%	12.20%	3.83%	16.03%
4073	1464	Scituate Police	5	7.00%	0.00%	0.00%	0.00%
4076	1394	North Smithfield Police	C,D	9.00%	12.14%	4.94%	17.08%
4077	1534	Tiverton Fire	C,D	9.00%	12.48%	(3.34%)	9.14%
4082	1194	Foster Police	C,D	9.00%	13.22%	8.27%	21.49%
4085	1634	Woonsocket Police	C,D	9.00%	11.93%	7.29%	19.22%
4086	1084	Charlestown Police	C,D	9.00%	11.76%	13.88%	25.64%
4087	1264	Hopkinton Police	C,D,6	9.00%	14.68%	9.33%	24.01%

**Contribution Rates
 For Fiscal Year Ending June 30, 2012**

Old Unit Number	New Unit Number	Unit	Code(s)	Member Rate	Employer Rate		Total
					Employer Normal Cost	Amortization Rate	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
4088	1214	Glocester Police	C,D	9.00%	12.34%	4.67%	17.01%
4089	1604	West Greenwich Police/Rescue	C,D	9.00%	12.81%	7.28%	20.09%
4090	1034	Burrillville Police	C,D,6	10.20%	12.09%	(1.30%)	10.79%
4091	1148	Cumberland Rescue	C,D	9.00%	12.28%	(4.62%)	7.66%
4093	1635	Woonsocket Fire	C,D	9.00%	12.14%	(0.09%)	12.05%
4094	1015	Bristol Fire	D	8.00%	9.89%	(13.63%)	0.00%
4095	1135	Cumberland Hill Fire	C,D	9.00%	12.55%	9.33%	21.88%
4096	1014	Bristol Police	C,D	9.00%	12.32%	(1.87%)	10.45%
4098	1095	Coventry Fire	D	8.00%	8.60%	4.20%	12.80%
4099	1505	South Kingstown EMT	C,D	9.00%	12.74%	(8.07%)	4.67%
4101	1365	North Cumberland	C,D	9.00%	12.05%	11.05%	23.10%
4102	1045 1235 1525 1585	Central Coventry Fire	C,D	9.00%	12.06%	9.01%	21.07%
4103	1255	Hopkins Hill Fire	C,D	9.00%	12.59%	0.77%	13.36%
4104	1114	Cranston Police	C,D,4	10.00%	16.63%	4.80%	21.43%
4105	1115	Cranston Fire	C,D,4	10.00%	15.85%	5.48%	21.33%
4106	1125	Cumberland Fire	B,D	9.00%	12.65%	10.61%	23.26%
4107	1305	Lincoln Rescue	C	8.00%	10.82%	7.93%	18.75%
4108	1344	New Shoreham Police	B,D	9.00%	12.82%	11.92%	24.74%
4109	1324	Middletown Police & Fire	C,D	9.00%	13.56%	(1.12%)	12.44%
4110	1715	Harrisville Fire District	C,D	9.00%	12.04%	1.22%	13.26%
4111	1705	Albion Fire District	C	8.00%	10.51%	7.52%	18.03%
Police & Fire Units Averages				9.06%	12.51%	4.73%	17.24%
All MERS Units Averages				7.43%	7.59%	3.81%	11.48%

B - Municipality has adopted COLA Plan B

C - Municipality has adopted COLA Plan C

1 - S.Kingstown Police have a unique plan that provides 2.0% of salary for service prior to July 1, 1993, and 2.5% of salary for service on or after July 1, 1993.

2 - New unit in 2009 valuation.

4 - Cranston Fire and Police are contributing 10% due to special plan provision.

6 - Special plan provisions apply to this unit.

D - Municipality has adopted the "20-year" optional Police & Fire Plan

3 - Closed unit.

5 - This unit has no active members.

Comparison of Employer Contribution Rates

Old Unit Number	New Unit Number	Unit	Code(s)	June 30, 2009 Actuarial Valuation, for FY2012	June 30, 2008 Actuarial Valuation, for FY2011	June 30, 2007 Actuarial Valuation, for FY2010
(1)	(2)	(3)	(4)	(5)	(6)	(7)
General Employee Units						
3002	1012 1019	Bristol	B	14.42%	12.32%	12.91%
3003	1032 1033	Burrillville	C	4.98%	3.08%	4.67%
3004	1052	Central Falls		9.05%	8.38%	8.91%
3005	1082	Charlestown	C	12.48%	9.94%	10.73%
3007	1112 1113	Cranston	B	5.90%	4.00%	5.22%
3008	1122 1123	Cumberland		9.68%	8.56%	9.31%
3009	1152 1153	East Greenwich	C	3.71%	1.60%	0.00%
3010	1162 1163	East Providence	B	18.08%	15.26%	16.04%
3011	1183	Exeter/West Greenwich	B	10.80%	9.08%	9.95%
3012	1192 1193	Foster		8.07%	6.92%	6.84%
3013	1212 1213	Glocester	C	10.33%	9.33%	10.40%
3014	1262	Hopkinton	C	4.80%	3.57%	3.95%
3015	1272 1273	Jamestown	C	11.43%	10.18%	11.99%
3016	1282 1283	Johnston	C	12.83%	9.19%	10.03%
3017	1302 1303	Lincoln		6.43%	6.67%	6.55%
3019	1322 1323	Middletown	C	11.22%	9.50%	10.73%
3021	1352 1353 1354	Newport	B	17.08%	13.81%	14.51%
3022	1342 1343	New Shoreham	B	8.39%	7.34%	8.77%
3023	1372 1373	North Kingstown	C	13.44%	11.45%	12.06%
3024	1382 1383	North Providence		0.97%	0.00%	0.56%
3025	1392 1393	North Smithfield	B	1.77%	0.19%	1.42%
3026	1412 1413	Pawtucket	C	11.81%	9.20%	10.74%
3027	1515	Union Fire District		5.45%	5.74%	5.89%
3029	1452	Richmond		7.74%	6.72%	6.74%
3030	1462 1463	Scituate	B	13.65%	11.11%	12.16%
3031	1472 1473	Smithfield	C	6.42%	4.79%	5.44%
3032	1492 1493	South Kingstown	B	8.59%	6.20%	6.92%
3033	1532 1533	Tiverton	C	2.67%	1.07%	2.87%
3034	1562	Warren	C	14.78%	13.20%	15.62%
3036	1622 1623	Westerly		60.04%	53.40%	52.49%
3037	1602	West Greenwich	C	14.46%	11.81%	12.07%
3039	1632 1633	Woonsocket	B	3.44%	0.67%	2.35%
3040	1073	Chariho School District	C	10.94%	9.55%	10.30%
3041	1203	Foster/Glocester	B	13.25%	12.37%	11.85%
3042	1528	Tiogue Fire & Lighting	C,5	0.00%	0.00%	0.00%
3043	1336	Narragansett Housing	C	8.02%	7.35%	7.52%
3045	1098	Coventry Lighting District	C	0.00%	0.00%	0.00%
3046	1242	Hope Valley Fire	C	2.65%	1.69%	2.86%
3050	1156	East Greenwich Housing	C	11.32%	7.63%	9.31%
3051	1116	Cranston Housing	C	4.30%	2.52%	3.61%
3052	1166	East Providence Housing	B	2.54%	1.34%	3.95%
3053	1416	Pawtucket Housing	B	0.00%	0.00%	0.00%
3056	1126	Cumberland Housing	C	7.43%	4.83%	4.43%
3057	1306	Lincoln Housing	B	8.50%	8.75%	9.25%
3059	1016	Bristol Housing		0.00%	0.00%	0.00%
3065	1036	Burrillville Housing	B	3.70%	0.00%	0.00%
3066	1386	North Providence Housing	B	25.43%	21.19%	23.90%
3067	1177	East Smithfield Water	C	0.00%	0.12%	2.59%

Comparison of Employer Contribution Rates

Old Unit Number	New Unit Number	Unit	Code(s)	June 30, 2009 Actuarial Valuation, for FY2012	June 30, 2008 Actuarial Valuation, for FY2011	June 30, 2007 Actuarial Valuation, for FY2010
(1)	(2)	(3)	(4)	(5)	(6)	(7)
3068	1227	Greenville Water	B	0.00%	0.00%	0.00%
3069	1356	Newport Housing	C	14.20%	9.76%	9.68%
3071	1566	Warren Housing	B	2.08%	0.05%	6.66%
3072	1286	Johnston Housing		4.05%	2.41%	3.16%
3077	1538	Tiverton Local 2670A	C	7.18%	5.78%	5.76%
3078	1002 1003 1007 1009	Barrington COLA	C	5.06%	2.54%	2.90%
3079	1096	Coventry Housing		4.46%	2.75%	3.24%
3080	1496	South Kingstown Housing	C	4.55%	3.23%	6.43%
3081	1403	N. RI Collaborative Adm. Services	C	9.87%	9.80%	9.48%
3083	1616	West Warwick Housing	B	8.71%	7.18%	8.08%
3084	1476	Smithfield Housing		0.53%	0.00%	0.00%
3094	1478	Smithfield COLA	C	7.43%	5.60%	5.56%
3096	1056	Central Falls Housing	C	10.60%	12.25%	13.03%
3098	1293	Lime Rock Administrative Services		7.42%	6.34%	5.11%
3099	1063	Central Falls Schools	C	9.39%	8.54%	8.13%
3100	1023	Bristol/Warren Schools	B	12.11%	10.39%	10.36%
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	3.71%	1.60%	7.00%
3102	1712	Harrisville Fire District (ADMIN)	C	9.44%	8.65%	8.94%
General Employee Units Average				9.59%	7.52%	8.50%
Police & Fire Units						
4016	1285	Johnston Fire	D	9.19%	8.24%	8.99%
4029	1454	Richmond Police	6	10.22%	10.50%	11.14%
4031	1474	Smithfield Police	C,D	20.38%	20.85%	21.37%
4042	1555	Valley Falls Fire	D	9.45%	7.68%	7.96%
4047	1395 1435	North Smithfield Voluntary Fire	B,D	15.71%	13.30%	14.75%
4050	1155	East Greenwich Fire	C,D	19.74%	17.68%	18.28%
4054	1154	East Greenwich Police	C,D	16.57%	11.50%	13.09%
4055	1375	North Kingstown Fire	C,D	17.66%	15.09%	17.52%
4056	1374	North Kingstown Police	C,D	21.94%	18.87%	21.00%
4058	1385	North Providence Fire	D	11.86%	9.67%	11.45%
4059	1008	Barrington Fire (25)	C	13.68%	15.11%	15.49%
4060	1004	Barrington Police	C,D	30.41%	28.60%	26.74%
4061	1005	Barrington Fire (20)	C,D	11.60%	5.17%	7.07%
4062	1564 1565	Warren Police & Fire	C,D	25.83%	24.18%	23.71%
4063	1494	South Kingstown Police	B,1	16.03%	12.60%	12.24%
4073	1464	Scituate Police	5	0.00%	0.00%	0.00%
4076	1394	North Smithfield Police	C,D	17.08%	12.91%	13.20%
4077	1534	Tiverton Fire	C,D	9.14%	9.03%	9.18%
4082	1194	Foster Police	C,D	21.49%	18.28%	16.82%
4085	1634	Woonsocket Police	C,D	19.22%	14.18%	13.22%
4086	1084	Charlestown Police	C,D	25.64%	24.03%	23.52%
4087	1264	Hopkinton Police	C,D,6	24.01%	16.90%	18.43%
4088	1214	Glocester Police	C,D	17.01%	16.08%	18.38%
4089	1604	West Greenwich Police/Rescue	C,D	20.09%	17.25%	18.79%
4090	1034	Burrillville Police	C,D,6	10.79%	10.17%	12.23%
4091	1148	Cumberland Rescue	C,D	7.66%	7.38%	8.82%
4093	1635	Woonsocket Fire	C,D	12.05%	10.68%	11.93%

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2009

Table 2

Comparison of Employer Contribution Rates

Old Unit Number	New Unit Number	Unit	Code(s)	June 30, 2009 Actuarial Valuation, for FY2012	June 30, 2008 Actuarial Valuation, for FY2011	June 30, 2007 Actuarial Valuation, for FY2010
(1)	(2)	(3)	(4)	(5)	(6)	(7)
4094	1015	Bristol Fire	D	0.00%	0.00%	0.00%
4095	1135	Cumberland Hill Fire	C,D	21.88%	18.37%	19.83%
4096	1014	Bristol Police	C,D	10.45%	9.81%	11.03%
4098	1095	Coventry Fire	D	12.80%	10.22%	10.87%
4099	1505	South Kingstown EMT	C,D	4.67%	3.28%	6.08%
4101	1365	North Cumberland	C,D	23.10%	20.61%	11.30%
4102	1045 1235 1525 1585	Central Coventry Fire	C,D	21.07%	19.63%	19.33%
4103	1255	Hopkins Hill Fire	C,D	13.36%	16.26%	9.94%
4104	1114	Cranston Police	C,D,4	21.43%	20.95%	15.30%
4105	1115	Cranston Fire	C,D,4	21.33%	20.57%	14.37%
4106	1125	Cumberland Fire	B,D	23.26%	22.01%	20.70%
4107	1305	Lincoln Rescue	C	18.75%	17.58%	15.17%
4108	1344	New Shoreham Police	B,D	24.74%	23.61%	26.63%
4109	1324	Middletown Police & Fire	C,D	12.44%	13.11%	13.67%
4110	1715	Harrisville Fire District	C,D	13.26%	12.15%	13.69%
4111	1705	Albion Fire District	C	18.03%	22.15%	20.75%
Police & Fire Units Average				17.24%	15.42%	14.85%
All MERS Units Average				11.48%	9.41%	10.00%

B - Municipality has adopted COLA Plan B

C - Municipality has adopted COLA Plan C

1 - S.Kingstown Police have a unique plan that provides 2.0% of salary for service prior to July 1, 1993, and 2.5% of salary for service on or after July 1, 1993.

2 - New unit in 2009 valuation.

4 - Cranston Fire and Police are contributing 10% due to special plan provision.

6 - Special plan provisions apply to this unit.

D - Municipality has adopted the "20-year" optional Police & Fire Plan

3 - Closed unit.

5 - This unit has no active members.

Components Used in Determining Contribution Rates

Old Unit Number	New Unit Number	Unit	Code(s)	Adjusted Compensation	Normal Cost (Total)	Actuarial Accrued Liability	Actuarial Value of Assets
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
General Employee Units							
3002	1012 1019	Bristol	B	4,406,314	543,829	20,791,168	15,039,954
3003	1032 1033	Burrillville	C	5,589,303	740,071	22,446,076	23,499,023
3004	1052	Central Falls		2,446,693	272,780	6,656,557	5,212,157
3005	1082	Charlestown	C	1,803,892	223,044	5,935,641	4,111,545
3007	1112 1113	Cranston	B	25,915,483	3,486,887	126,143,717	128,570,070
3008	1122 1123	Cumberland		8,343,966	909,372	24,970,902	19,203,157
3009	1152 1153	East Greenwich	C	1,129,564	147,087	6,218,210	7,611,272
3010	1162 1163	East Providence	B	17,851,998	2,308,503	94,579,444	63,607,593
3011	1183	Exeter/West Greenwich	B	2,473,983	338,710	8,415,997	6,935,738
3012	1192 1193	Foster		1,290,836	150,380	3,325,353	2,861,484
3013	1212 1213	Glocester	C	2,500,025	334,019	7,649,321	6,192,776
3014	1262	Hopkinton	C	1,407,364	202,774	3,271,996	3,804,392
3015	1272 1273	Jamestown	C	3,297,840	427,550	11,355,851	8,736,704
3016	1282 1283	Johnston	C	8,196,113	1,140,563	37,747,077	30,947,972
3017	1302 1303	Lincoln		851,031	96,381	1,483,154	1,307,918
3019	1322 1323	Middletown	C	5,268,332	681,684	16,612,259	12,574,146
3021	1352 1353 1354	Newport	B	11,855,170	1,511,632	65,391,781	46,291,715
3022	1342 1343	New Shoreham	B	2,089,994	277,234	5,209,876	4,500,415
3023	1372 1373	North Kingstown	C	11,833,062	1,570,234	52,144,406	40,052,448
3024	1382 1383	North Providence		7,197,732	770,237	23,197,133	27,063,016
3025	1392 1393	North Smithfield	B	2,856,531	390,072	11,489,027	13,501,632
3026	1412 1413	Pawtucket	C	21,468,606	2,784,292	110,065,250	92,326,512
3027	1515	Union Fire District		235,722	23,087	392,852	354,633
3029	1452	Richmond		757,557	89,111	1,664,550	1,470,905
3030	1462 1463	Scituate	B	2,691,498	353,934	12,103,315	9,338,334
3031	1472 1473	Smithfield	C	3,014,073	415,496	11,040,131	11,522,530
3032	1492 1493	South Kingstown	B	11,974,048	1,589,425	47,009,273	43,192,087
3033	1532 1533	Tiverton	C	3,047,377	422,157	9,423,527	11,267,260

Components Used in Determining Contribution Rates

Old Unit Number	New Unit Number	Unit	Code(s)	Adjusted Compensation	Normal Cost (Total)	Actuarial Accrued Liability	Actuarial Value of Assets
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
3034	1562	Warren	C	1,723,468	208,031	6,973,207	4,502,664
3036	1622 1623	Westerly		64,591	5,538	962,696	439,397
3037	1602	West Greenwich	C	917,798	124,268	3,187,703	2,168,589
3039	1632 1633	Woonsocket	B	11,960,719	1,584,970	59,703,241	64,835,107
3040	1073	Chariho School District	C	5,152,916	680,322	16,218,058	12,643,833
3041	1203	Foster/Glocester	B	1,584,082	220,896	6,387,816	4,923,096
3042	1528	Tiogue Fire & Lighting	C,5	-	-	5,314	40,282
3043	1336	Narragansett Housing	C	172,527	21,209	372,374	297,738
3045	1098	Coventry Lighting District	C	35,615	4,146	648,642	1,414,169
3046	1242	Hope Valley Fire	C	115,376	14,247	330,307	379,682
3050	1156	East Greenwich Housing	C	448,906	64,010	1,167,448	905,431
3051	1116	Cranston Housing	C	957,523	125,960	3,440,664	3,708,573
3052	1166	East Providence Housing	B	580,016	82,673	2,367,009	2,763,632
3053	1416	Pawtucket Housing	B	2,167,874	278,650	8,135,509	11,701,288
3056	1126	Cumberland Housing	C	427,894	56,867	1,197,304	1,128,975
3057	1306	Lincoln Housing	B	441,514	65,166	1,472,735	1,426,944
3059	1016	Bristol Housing		337,740	35,420	1,165,075	1,861,868
3065	1036	Burrillville Housing	B	159,971	22,584	880,818	963,028
3066	1386	North Providence Housing	B	227,002	30,541	1,397,078	787,678
3067	1177	East Smithfield Water	C	134,975	17,977	754,811	881,832
3068	1227	Greenville Water	B	221,886	28,780	790,864	1,043,052
3069	1356	Newport Housing	C	1,109,281	148,230	7,853,802	6,666,585
3071	1566	Warren Housing	B	244,552	35,297	1,082,610	1,277,072
3072	1286	Johnston Housing		350,512	40,228	947,336	1,027,852
3077	1538	Tiverton Local 2670A	C	938,855	126,274	3,395,971	3,302,979
3078	1002 1003 1007 1009	Barrington COLA	C	7,220,306	954,757	27,991,776	29,456,427
3079	1096	Coventry Housing		487,984	53,332	797,649	839,981
3080	1496	South Kingstown Housing	C	164,024	23,343	107,038	185,321
3081	1403	N. RI Collaborative Adm. Services	C	1,502,841	211,401	3,022,999	2,352,919
3083	1616	West Warwick Housing	B	367,272	44,263	1,404,218	1,236,515

Components Used in Determining Contribution Rates

Old Unit Number	New Unit Number	Unit	Code(s)	Adjusted Compensation	Normal Cost (Total)	Actuarial Accrued Liability	Actuarial Value of Assets
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
3084	1476	Smithfield Housing		130,488	13,526	220,669	291,999
3094	1478	Smithfield COLA	C	3,573,554	461,341	12,595,388	11,858,810
3096	1056	Central Falls Housing	C	908,788	118,512	2,332,747	1,653,693
3098	1293	Lime Rock Administrative Services		86,500	8,497	240,224	194,781
3099	1063	Central Falls Schools	C	4,686,321	661,057	13,080,984	11,510,996
3100	1023	Bristol/Warren Schools	B	4,302,408	580,870	18,113,045	14,647,851
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	5,115,215	682,512	16,311,482	17,136,331
3102	1712	Harrisville Fire District (ADMIN)	C	184,015	23,028	447,299	335,386
3103	1702	Albion Fire District (ADMIN)	C	-	-	73,186	52,348
General Employee Units Subtotal				\$ 230,999,416	\$ 30,059,268	\$ 974,562,323	\$ 863,942,093
Police & Fire Units							
4016	1285	Johnston Fire	D	2,316,237	416,658	1,944,014	1,941,048
4029	1454	Richmond Police	6	544,497	87,146	818,067	666,743
4031	1474	Smithfield Police	C,D	2,345,796	500,980	7,180,764	4,219,709
4042	1555	Valley Falls Fire	D	707,478	125,130	3,036,987	3,005,363
4047	1395 1435	North Smithfield Voluntary Fire	B,D	1,124,490	232,035	5,506,044	4,976,447
4050	1155	East Greenwich Fire	C,D	2,302,492	498,013	12,629,805	10,154,829
4054	1154	East Greenwich Police	C,D	1,933,255	420,709	13,549,427	12,515,512
4055	1375	North Kingstown Fire	C,D	4,005,886	842,935	29,534,211	26,351,379
4056	1374	North Kingstown Police	C,D	2,684,648	571,401	20,673,297	16,853,498
4058	1385	North Providence Fire	D	5,251,101	889,979	30,293,297	27,898,425
4059	1008	Barrington Fire (25)	C	804,843	153,137	1,314,721	874,160
4060	1004	Barrington Police	C,D	1,291,422	275,470	10,602,888	7,193,130
4061	1005	Barrington Fire (20)	C,D	474,279	95,969	8,662,986	8,731,954
4062	1564 1565	Warren Police & Fire	C,D	1,392,633	288,222	10,579,134	7,799,931

Components Used in Determining Contribution Rates

Old Unit Number	New Unit Number	Unit	Code(s)	Adjusted Compensation	Normal Cost (Total)	Actuarial Accrued Liability	Actuarial Value of Assets
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
4063	1494	South Kingstown Police	B,1	2,734,277	566,213	22,560,153	21,236,264
4073	1464	Scituate Police	5	-	-	24,272	173,152
4076	1394	North Smithfield Police	C,D	1,154,239	249,310	8,661,456	7,928,277
4077	1534	Tiverton Fire	C,D	1,671,055	370,107	7,729,733	8,542,359
4082	1194	Foster Police	C,D	390,876	90,337	2,611,328	2,166,398
4085	1634	Woonsocket Police	C,D	4,728,198	1,026,594	34,272,940	29,773,835
4086	1084	Charlestown Police	C,D	1,172,189	247,702	8,128,234	5,813,138
4087	1264	Hopkinton Police	C,D,6	786,001	190,771	5,075,599	4,109,089
4088	1214	Glocester Police	C,D	1,003,507	214,982	5,162,180	4,476,658
4089	1604	West Greenwich Police/Rescue	C,D	709,164	159,466	3,274,318	2,551,645
4090	1034	Burrillville Police	C,D,6	1,285,819	290,449	7,322,217	7,553,018
4091	1148	Cumberland Rescue	C,D	891,927	191,329	3,451,531	4,040,881
4093	1635	Woonsocket Fire	C,D	6,559,575	1,423,165	26,832,008	27,011,294
4094	1015	Bristol Fire	D	46,256	8,586	176,977	264,526
4095	1135	Cumberland Hill Fire	C,D	625,764	133,318	4,533,918	3,722,209
4096	1014	Bristol Police	C,D	1,572,138	349,260	2,410,103	2,840,215
4098	1095	Coventry Fire	D	697,160	119,200	2,834,810	2,442,260
4099	1505	South Kingstown EMT	C,D	707,353	160,800	1,404,279	2,241,231
4101	1365	North Cumberland	C,D	662,356	141,476	4,026,259	2,967,543
4102	1045 1235 1525 1585	Central Coventry Fire	C,D	1,885,943	407,722	8,219,812	5,825,584
4103	1255	Hopkins Hill Fire	C,D	484,922	104,659	1,123,709	1,035,227
4104	1114	Cranston Police	C,D,4	6,578,878	1,821,610	20,823,809	16,664,831
4105	1115	Cranston Fire	C,D,4	8,404,470	2,251,984	33,859,726	27,822,453
4106	1125	Cumberland Fire	B,D	614,853	131,671	3,735,601	2,816,322
4107	1305	Lincoln Rescue	C	766,026	137,963	2,923,841	2,071,497
4108	1344	New Shoreham Police	B,D	237,034	53,824	1,251,857	833,702
4109	1324	Middletown Police & Fire	C,D	1,602,902	382,689	1,090,815	1,328,917

Components Used in Determining Contribution Rates

Old Unit Number	New Unit Number	Unit	Code(s)	Adjusted Compensation	Normal Cost (Total)	Actuarial Accrued Liability	Actuarial Value of Assets
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
4110	1715	Harrisville Fire District	C,D	256,715	55,754	650,845	607,180
4111	1705	Albion Fire District	C	179,371	34,647	592,394	383,069
Police & Fire Units Subtotal				<u>\$ 75,588,025</u>	<u>\$ 16,713,372</u>	<u>\$ 381,090,367</u>	<u>\$ 332,424,901</u>
All MERS Units Total				\$ 306,587,441	\$ 46,772,640	\$ 1,355,652,690	\$ 1,196,366,995

B - Municipality has adopted COLA Plan B

C - Municipality has adopted COLA Plan C

D - Municipality has adopted the "20-year" optional Police & Fire Plan

1 - S.Kingstown Police have a unique plan that provides 2.0% of salary for service prior to July 1, 1993, and 2.5% of salary for service on or after July 1, 1993.

2 - New unit in 2009 valuation.

3 - Closed unit.

4 - Cranston Fire and Police are contributing 10% due to special plan provision.

5 - This unit has no active members.

6 - Special plan provisions apply to this unit.

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2009

Table 4a

Asset Values						
Old Unit Number	New Unit Number	Unit	Code	Market Value of Assets	Actuarial Value of Assets	
(1)	(2)	(3)	(4)	(5)	(6)	
General Employee Units						
3002	1012 1019	Bristol	B	\$ 11,215,758	\$ 15,039,954	
3003	1032 1033	Burrillville	C	17,523,947	23,499,023	
3004	1052	Central Falls		3,886,866	5,212,157	
3005	1082	Charlestown	C	3,066,106	4,111,545	
3007	1112 1113	Cranston	B	95,878,671	128,570,070	
3008	1122 1123	Cumberland		14,320,387	19,203,157	
3009	1152 1153	East Greenwich	C	5,675,961	7,611,272	
3010	1162 1163	East Providence	B	47,434,146	63,607,593	
3011	1183	Exeter/West Greenwich	B	5,172,194	6,935,738	
3012	1192 1193	Foster		2,133,897	2,861,484	
3013	1212 1213	Glocester	C	4,618,144	6,192,776	
3014	1262	Hopkinton	C	2,837,053	3,804,392	
3015	1272 1273	Jamestown	C	6,515,230	8,736,704	
3016	1282 1283	Johnston	C	23,078,858	30,947,972	
3017	1302 1303	Lincoln		975,355	1,307,918	
3019	1322 1323	Middletown	C	9,376,929	12,574,146	
3021	1352 1353 1354	Newport	B	34,521,162	46,291,715	
3022	1342 1343	New Shoreham	B	3,356,098	4,500,415	
3023	1372 1373	North Kingstown	C	29,868,347	40,052,448	
3024	1382 1383	North Providence		20,181,727	27,063,016	
3025	1392 1393	North Smithfield	B	10,068,584	13,501,632	
3026	1412 1413	Pawtucket	C	68,850,731	92,326,512	
3027	1515	Union Fire District		264,461	354,633	
3029	1452	Richmond		1,096,899	1,470,905	
3030	1462 1463	Scituate	B	6,963,884	9,338,334	
3031	1472 1473	Smithfield	C	8,592,706	11,522,530	
3032	1492 1493	South Kingstown	B	32,209,673	43,192,087	
3033	1532 1533	Tiverton	C	8,402,344	11,267,260	
3034	1562	Warren	C	3,357,776	4,502,664	
3036	1622 1623	Westerly		327,672	439,397	
3037	1602	West Greenwich	C	1,617,184	2,168,589	
3039	1632 1633	Woonsocket	B	48,349,541	64,835,107	
3040	1073	Charlho School District	C	9,428,897	12,643,833	
3041	1203	Foster/Glocester	B	3,671,305	4,923,096	
3042	1528	Tiogue Fire & Lighting	C,5	30,040	40,282	
3043	1336	Narragansett Housing	C	222,032	297,738	
3045	1098	Coventry Lighting District	C	1,054,589	1,414,169	
3046	1242	Hope Valley Fire	C	283,141	379,682	
3050	1156	East Greenwich Housing	C	675,208	905,431	
3051	1116	Cranston Housing	C	2,765,598	3,708,573	
3052	1166	East Providence Housing	B	2,060,925	2,763,632	
3053	1416	Pawtucket Housing	B	8,726,012	11,701,288	

Municipal Employees' Retirement System
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Table 4a

Asset Values					
Old Unit Number	New Unit Number	Unit	Code	Market Value of Assets	Actuarial Value of Assets
(1)	(2)	(3)	(4)	(5)	(6)
3056	1126	Cumberland Housing	C	841,911	1,128,975
3057	1306	Lincoln Housing	B	1,064,116	1,426,944
3059	1016	Bristol Housing		1,388,453	1,861,868
3065	1036	Burrillville Housing	B	718,160	963,028
3066	1386	North Providence Housing	B	587,396	787,678
3067	1177	East Smithfield Water	C	657,609	881,832
3068	1227	Greenville Water	B	777,836	1,043,052
3069	1356	Newport Housing	C	4,971,478	6,666,585
3071	1566	Warren Housing	B	952,352	1,277,072
3072	1286	Johnston Housing		766,501	1,027,852
3077	1538	Tiverton Local 2670A	C	2,463,133	3,302,979
3078	1002 1003 1007 1009	Barrington COLA	C	21,966,567	29,456,427
3079	1096	Coventry Housing		626,400	839,981
3080	1496	South Kingstown Housing	C	138,199	185,321
3081	1403	N. RI Collaborative Adm. Services	C	1,754,645	2,352,919
3083	1616	West Warwick Housing	B	922,108	1,236,515
3084	1476	Smithfield Housing		217,753	291,999
3094	1478	Smithfield COLA	C	8,843,481	11,858,810
3096	1056	Central Falls Housing	C	1,233,210	1,653,693
3098	1293	Lime Rock Administrative Services		145,254	194,781
3099	1063	Central Falls Schools	C	8,584,105	11,510,996
3100	1023	Bristol/Warren Schools	B	10,923,355	14,647,851
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	12,779,091	17,136,331
3102	1712	Harrisville Fire District (ADMIN)	C	250,108	335,386
3103	1702	Albion Fire District (ADMIN)	C	39,038	52,348
General Employee Units Subtotal				\$ 644,268,296	\$ 863,942,093
Police & Fire Units					
4016	1285	Johnston Fire	D	\$ 1,447,500	\$ 1,941,048
4029	1454	Richmond Police	6	497,211	666,743
4031	1474	Smithfield Police	C,D	3,146,767	4,219,709
4042	1555	Valley Falls Fire	D	2,241,192	3,005,363
4047	1395 1435	North Smithfield Voluntary Fire	B,D	3,711,090	4,976,447
4050	1155	East Greenwich Fire	C,D	7,572,770	10,154,829
4054	1154	East Greenwich Police	C,D	9,333,204	12,515,512
4055	1375	North Kingstown Fire	C,D	19,651,037	26,351,379
4056	1374	North Kingstown Police	C,D	12,568,174	16,853,498
4058	1385	North Providence Fire	D	20,804,717	27,898,425
4059	1008	Barrington Fire (25)	C	651,888	874,160
4060	1004	Barrington Police	C,D	5,364,140	7,193,130
4061	1005	Barrington Fire (20)	C,D	6,511,688	8,731,954

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2009

Table 4a

Asset Values					
Old Unit Number	New Unit Number	Unit	Code	Market Value of Assets	Actuarial Value of Assets
(1)	(2)	(3)	(4)	(5)	(6)
4062	1564 1565	Warren Police & Fire	C,D	5,816,649	7,799,931
4063	1494	South Kingstown Police	B,1	15,836,538	21,236,264
4073	1464	Scituate Police	5	129,125	173,152
4076	1394	North Smithfield Police	C,D	5,912,361	7,928,277
4077	1534	Tiverton Fire	C,D	6,370,301	8,542,359
4082	1194	Foster Police	C,D	1,615,550	2,166,398
4085	1634	Woonsocket Police	C,D	22,203,268	29,773,835
4086	1084	Charlestown Police	C,D	4,335,036	5,813,138
4087	1264	Hopkinton Police	C,D,6	3,064,274	4,109,089
4088	1214	Glocester Police	C,D	3,338,382	4,476,658
4089	1604	West Greenwich Police/Rescue	C,D	1,902,840	2,551,645
4090	1034	Burrillville Police	C,D,6	5,632,519	7,553,018
4091	1148	Cumberland Rescue	C,D	3,013,410	4,040,881
4093	1635	Woonsocket Fire	C,D	20,143,156	27,011,294
4094	1015	Bristol Fire	D	197,265	264,526
4095	1135	Cumberland Hill Fire	C,D	2,775,766	3,722,209
4096	1014	Bristol Police	C,D	2,118,036	2,840,215
4098	1095	Coventry Fire	D	1,821,269	2,442,260
4099	1505	South Kingstown EMT	C,D	1,671,355	2,241,231
4101	1365	North Cumberland	C,D	2,212,989	2,967,543
4102	1045 1235 1525 1585	Central Coventry Fire	C,D	4,344,318	5,825,584
4103	1255	Hopkins Hill Fire	C,D	772,000	1,035,227
4104	1114	Cranston Police	C,D,4	12,427,479	16,664,831
4105	1115	Cranston Fire	C,D,4	20,748,063	27,822,453
4106	1125	Cumberland Fire	B,D	2,100,218	2,816,322
4107	1305	Lincoln Rescue	C	1,544,779	2,071,497
4108	1344	New Shoreham Police	B,D	621,718	833,702
4109	1324	Middletown Police & Fire	C,D	991,014	1,328,917
4110	1715	Harrisville Fire District	C,D	452,793	607,180
4111	1705	Albion Fire District	C	285,666	383,069
Police & Fire Units Subtotal				\$ 247,899,514	\$ 332,424,901
All MERS Units Total				\$ 892,167,810	\$ 1,196,366,995

B - Municipality has adopted COLA Plan B

C - Municipality has adopted COLA Plan C

D - Municipality has adopted the "20-year" optional Police & Fire Plan

1 - S.Kingstown Police have a unique plan that provides 2.0% of salary for service prior to July 1, 1993, and 2.5% of salary for service on or after July 1, 1993.

2 - New unit in 2009 valuation.

3 - Closed unit.

4 - Cranston Fire and Police are contributing 10% due to special plan provision.

5 - This unit has no active members.

6 - Special plan provisions apply to this unit.

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2009

Table 4b

Reconciliation of Market Assets by Unit

Old Unit Number	New Unit Number	Unit	Code (s)	Beginning of Year Account Balance	Member Contributions	Employer Contributions	Service Purchases and Others	Benefit Payments	Refunds	Net Investment Return	End of Year Account Balance
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
General Employee Units											
3002	1012 1019	Bristol	B	\$ 14,193,657	\$ 309,900	\$ 594,763	\$ (23,158)	\$ (1,077,263)	\$ (2,713)	\$ (2,779,429)	\$ 11,215,758
3003	1032 1033	Burrillville	C	22,069,679	393,283	333,730	(56,265)	(828,229)	(45,561)	(4,342,691)	17,523,947
3004	1052	Central Falls		4,716,336	147,294	217,746	144,934	(318,817)	(57,405)	(963,222)	3,886,866
3005	1082	Charlestown	C	3,766,572	119,994	199,876	(71,898)	(162,513)	(26,099)	(759,826)	3,066,106
3007	1112 1113	Cranston	B	122,913,221	1,841,764	1,667,867	(80,789)	(6,465,961)	(237,290)	(23,760,141)	95,878,671
3008	1122 1123	Cumberland		17,512,339	507,297	867,476	299,146	(1,257,521)	(59,548)	(3,548,802)	14,320,387
3009	1152 1153	East Greenwich	C	8,797,147	73,556	(158)	(1,347,104)	(440,893)	0	(1,406,586)	5,675,961
3010	1162 1163	East Providence	B	60,812,989	1,292,606	2,922,287	109,954	(5,829,011)	(119,801)	(11,754,877)	47,434,146
3011	1183	Exeter/West Greenwich	B	6,329,342	170,039	246,731	(12,252)	(272,861)	(7,060)	(1,281,746)	5,172,194
3012	1192 1193	Foster		2,646,491	77,865	83,446	239	(134,193)	(11,140)	(528,811)	2,133,897
3013	1212 1213	Glocester	C	5,610,293	161,258	237,952	5,607	(249,923)	(2,600)	(1,144,444)	4,618,144
3014	1262	Hopkinton	C	3,560,960	105,942	102,916	(130,356)	(93,361)	(5,985)	(703,063)	2,837,053
3015	1272 1273	Jamestown	C	7,814,066	232,765	404,346	70,087	(366,569)	(24,894)	(1,614,570)	6,515,230
3016	1282 1283	Johnston	C	29,731,293	590,717	942,420	(51,798)	(2,354,400)	(60,094)	(5,719,280)	23,078,858
3017	1302 1303	Lincoln		1,274,839	57,821	71,601	(117,198)	(70,000)	0	(241,707)	975,355
3019	1322 1323	Middletown	C	11,262,462	365,290	571,835	(167,665)	(305,077)	(26,175)	(2,323,741)	9,376,929
3021	352 1353 1354	Newport	B	44,134,348	842,673	1,744,865	(165,993)	(3,445,333)	(34,549)	(8,554,850)	34,521,162
3022	1342 1343	New Shoreham	B	4,052,908	144,569	192,573	(61,603)	(140,658)	0	(831,690)	3,356,098
3023	1372 1373	North Kingstown	C	36,927,265	827,470	1,502,445	236,131	(2,188,788)	(34,361)	(7,401,814)	29,868,347
3024	1382 1383	North Providence		26,187,049	437,114	184,315	(323,078)	(1,216,130)	(86,216)	(5,001,328)	20,181,727
3025	1392 1393	North Smithfield	B	13,068,453	214,181	104,797	(114,001)	(655,082)	(54,622)	(2,495,143)	10,068,584
3026	1412 1413	Pawtucket	C	88,175,731	1,492,632	2,531,827	(16,736)	(6,157,677)	(112,826)	(17,062,221)	68,850,731
3027	1515	Union Fire District		285,927	14,143	15,416	14,512	0	0	(65,537)	264,461
3029	1452	Richmond		1,335,229	46,690	58,116	(5,146)	(63,432)	(2,730)	(271,828)	1,096,899
3030	1462 1463	Scituate	B	8,899,249	182,142	298,567	(46,607)	(633,886)	(9,829)	(1,725,753)	6,963,884
3031	1472 1473	Smithfield	C	10,912,382	207,678	177,125	89,023	(664,104)	0	(2,129,399)	8,592,706
3032	1492 1493	South Kingstown	B	40,097,569	840,292	932,596	53,106	(1,659,278)	(72,584)	(7,982,029)	32,209,673
3033	1532 1533	Tiverton	C	10,578,803	201,817	67,758	140,217	(496,651)	(7,375)	(2,082,224)	8,402,344
3034	1562	Warren	C	4,418,916	120,437	238,808	(74,111)	(502,139)	(12,030)	(832,106)	3,357,776
3036	1622 1623	Westerly		469,197	3,875	44,480	(1)	(108,677)	0	(81,202)	327,672
3037	1602	West Greenwich	C	1,931,759	66,973	129,062	4,130	(113,978)	0	(400,762)	1,617,184
3039	1632 1633	Woonsocket	B	62,574,332	862,958	404,651	(41,828)	(3,346,070)	(122,776)	(11,981,725)	48,349,541
3040	1073	Charlho School District	C	11,247,755	361,680	616,913	115,537	(528,347)	(48,023)	(2,336,619)	9,428,897
3041	1203	Foster/Glocester	B	4,519,329	111,894	209,080	103,538	(338,181)	(24,552)	(909,803)	3,671,305
3042	1528	Tiogue Fire & Lighting	C,5	37,484	0	0	(0)	0	0	(7,444)	30,040
3043	1336	Narragansett Housing	C	257,037	12,077	13,181	(1)	(5,239)	0	(55,023)	222,032
3045	1098	Coventry Lighting District	C	1,392,910	3,532	225	(13,351)	(66,068)	(1,316)	(261,343)	1,054,589
3046	1242	Hope Valley Fire	C	340,998	8,076	4,234	(1)	0	0	(70,166)	283,141
3050	1156	East Greenwich Housing	C	821,302	31,423	41,254	(3)	(51,442)	0	(167,326)	675,208
3051	1116	Cranston Housing	C	3,412,103	67,027	48,646	456	(77,278)	0	(685,356)	2,765,598

Municipal Employees' Retirement System
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Table 4b

Reconciliation of Market Assets by Unit

Old Unit Number	New Unit Number	Unit	Code (s)	Beginning of Year Account Balance	Member Contributions	Employer Contributions	Service Purchases and Others	Benefit Payments	Refunds	Net Investment Return	End of Year Account Balance
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
3052	1166	East Providence Housing	B	2,608,350	42,581	29,624	(9)	(100,859)	(8,033)	(510,728)	2,060,925
3053	1416	Pawtucket Housing	B	11,198,332	135,905	0	(113,885)	(326,777)	(5,129)	(2,162,434)	8,726,012
3056	1126	Cumberland Housing	C	1,150,421	29,001	28,877	(44,131)	(71,894)	(41,725)	(208,638)	841,911
3057	1306	Lincoln Housing	B	1,322,075	30,673	42,066	45,429	(90,471)	(21,952)	(263,704)	1,064,116
3059	1016	Bristol Housing		1,778,123	20,255	0	(6)	(64,111)	(1,730)	(344,079)	1,388,453
3065	1036	Burrillville Housing	B	932,834	11,566	380	(3)	(48,647)	0	(177,971)	718,160
3066	1386	North Providence Housing	B	774,749	17,775	55,714	(1,545)	(91,266)	(22,465)	(145,565)	587,396
3067	1177	East Smithfield Water	C	769,406	9,448	(19)	74,534	(32,795)	0	(162,965)	657,609
3068	1227	Greenville Water	B	987,745	15,532	0	(4)	(32,679)	0	(192,759)	777,836
3069	1356	Newport Housing	C	6,568,015	78,768	94,107	2,316	(539,722)	0	(1,232,005)	4,971,478
3071	1566	Warren Housing	B	1,201,485	17,119	25,115	(4)	(55,355)	0	(236,007)	952,352
3072	1286	Johnston Housing		969,956	19,788	11,510	(4)	(44,800)	0	(189,950)	766,501
3077	1538	Tiverton Local 2670A	C	3,112,069	64,772	61,997	(4,197)	(143,418)	(17,689)	(610,401)	2,463,133
3078	2 1003 1007 1009	Barrington COLA	C	27,833,746	498,014	308,354	59,540	(1,274,979)	(14,472)	(5,443,638)	21,966,567
3079	1096	Coventry Housing		776,873	28,167	18,168	2,164	(40,666)	(3,075)	(155,231)	626,400
3080	1496	South Kingstown Housing	C	183,945	6,691	7,296	(1)	0	(25,485)	(34,248)	138,199
3081	1403	N. RI Collaborative Adm. Services	C	1,997,769	106,168	144,539	51,238	(84,179)	(26,064)	(434,827)	1,754,645
3083	1616	West Warwick Housing	B	1,129,000	25,709	28,711	(4)	(32,797)	0	(228,512)	922,108
3084	1476	Smithfield Housing		260,200	7,175	4,341	(1)	0	(53,962)	217,753	
3094	1478	Smithfield COLA	C	10,833,804	257,265	205,279	188,631	(424,177)	(25,776)	(2,191,544)	8,843,481
3096	1056	Central Falls Housing	C	1,401,090	60,718	115,192	78,696	(116,879)	0	(305,608)	1,233,210
3098	1293	Lime Rock Administrative Services		171,615	5,190	4,446	(1)	0	0	(35,996)	145,254
3099	1063	Central Falls Schools	C	10,473,476	331,857	389,692	1,111	(443,409)	(41,355)	(2,127,267)	8,584,105
3100	1023	Bristol/Warren Schools	B	13,939,114	302,838	439,028	(27,140)	(976,158)	(47,358)	(2,706,968)	10,923,355
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	14,127,076	358,327	393,467	1,678,234	(560,166)	(51,002)	(3,166,846)	12,779,091
3102	1712	Harrisville Fire District (ADMIN)	C	283,861	12,881	15,347	(1)	0	0	(61,980)	250,108
3103	1702	Albion Fire District (ADMIN)	C	48,712	0	0	(0)	0	0	(9,674)	39,038
General Employee Units Subtotal				\$ 815,923,561	\$ 16,042,929	\$ 21,449,001	\$ 456,630	\$ (48,281,229)	\$ (1,663,463)	\$ (159,659,132)	\$ 644,268,296
Police & Fire Units											
4016	1285	Johnston Fire	D	\$ 1,630,199	\$ 146,119	\$ 190,870	\$ (130,297)	\$ (30,680)	\$ -	\$ (358,712)	\$ 1,447,500
4029	1454	Richmond Police	6	531,741	38,115	70,676	6,287	(26,392)	0	(123,216)	497,211
4031	1474	Smithfield Police	C,D	3,220,160	213,198	493,705	2,379	(2,861)	0	(779,815)	3,146,767
4042	1555	Valley Falls Fire	D	2,854,519	56,882	76,276	(27,696)	(163,389)	0	(555,400)	2,241,192
4047	1395 1435	North Smithfield Voluntary Fire	B,D	4,569,933	95,402	167,906	(13,558)	(188,930)	0	(919,663)	3,711,090
4050	1155	East Greenwich Fire	C,D	9,337,882	206,111	456,191	(4,430)	(532,551)	(13,789)	(1,876,643)	7,572,770
4054	1154	East Greenwich Police	C,D	11,649,629	178,580	295,054	33,084	(503,633)	(6,606)	(2,312,905)	9,333,204
4055	1375	North Kingstown Fire	C,D	24,681,137	346,158	751,805	32,149	(1,290,397)	0	(4,869,815)	19,651,037
4056	1374	North Kingstown Police	C,D	15,779,182	242,405	551,877	(2,864)	(887,848)	0	(3,114,578)	12,568,174
4058	1385	North Providence Fire	D	26,220,018	435,788	619,986	124,660	(1,440,021)	0	(5,155,714)	20,804,717
4059	1008	Barrington Fire (25)	C	663,828	63,666	153,193	(15,956)	(48,773)	(2,522)	(161,548)	651,888
4060	1004	Barrington Police	C,D	6,805,540	117,186	369,628	(6,310)	(592,592)	0	(1,329,312)	5,364,140

Municipal Employees' Retirement System
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Table 4b

Reconciliation of Market Assets by Unit

Old Unit Number	New Unit Number	Unit	Code (s)	Beginning of Year Account Balance	Member Contributions	Employer Contributions	Service Purchases and Others	Benefit Payments	Refunds	Net Investment Return	End of Year Account Balance
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
4061	1005	Barrington Fire (20)	C,D	8,628,827	43,096	65,075	203	(611,821)	0	(1,613,692)	6,511,688
4062	1564 1565	Warren Police & Fire	C,D	7,291,067	125,337	363,617	9,656	(531,576)	0	(1,441,451)	5,816,649
4063	1494	South Kingstown Police	B,1	20,278,956	241,516	386,152	5,379	(1,150,939)	0	(3,924,526)	15,839,538
4073	1464	Scituate Police	5	169,519	0	0	(1)	(8,394)	0	(31,999)	129,125
4076	1394	North Smithfield Police	C,D	7,463,033	104,135	169,868	10,723	(370,229)	0	(1,465,170)	5,912,361
4077	1534	Tiverton Fire	C,D	8,023,463	147,117	179,761	7,942	(346,051)	(63,278)	(1,578,654)	6,370,301
4082	1194	Foster Police	C,D	2,019,467	34,627	84,953	17,353	(140,494)	0	(400,357)	1,615,550
4085	1634	Woonsocket Police	C,D	27,639,421	485,736	774,872	49,181	(1,241,918)	(1,727)	(5,502,295)	22,203,268
4086	1084	Charlestown Police	C,D	5,326,586	111,564	299,861	15,411	(325,535)	(18,565)	(1,074,286)	4,335,036
4087	1264	Hopkinton Police	C,D,6	3,699,372	79,374	167,743	5,799	(128,641)	0	(759,372)	3,064,274
4088	1214	Glocester Police	C,D	4,059,967	90,316	181,736	(4,263)	(151,280)	(10,794)	(827,300)	3,338,382
4089	1604	West Greenwich Police/Rescue	C,D	2,314,205	63,825	121,834	2,658	(128,129)	0	(471,552)	1,902,840
4090	1034	Burrillville Police	C,D,6	6,957,008	132,235	212,762	15,922	(183,283)	(106,305)	(1,395,821)	5,632,519
4091	1148	Cumberland Rescue	C,D	3,664,829	80,191	85,247	(18,888)	(51,203)	0	(746,767)	3,013,410
4093	1635	Woonsocket Fire	C,D	24,091,992	587,272	840,470	(208,755)	(176,053)	0	(4,991,770)	20,143,156
4094	1015	Bristol Fire	D	259,941	3,701	(133)	(1)	(17,356)	0	(48,885)	197,265
4095	1135	Cumberland Hill Fire	C,D	3,439,262	62,108	140,570	8,576	(186,874)	0	(687,876)	2,775,766
4096	1014	Bristol Police	C,D	2,315,115	140,876	175,340	12,567	0	(982)	(524,880)	2,118,036
4098	1095	Coventry Fire	D	2,246,762	58,631	90,291	(24,498)	(98,580)	0	(451,337)	1,821,269
4099	1505	South Kingstown EMT	C,D	2,051,723	62,115	45,069	(69,048)	0	(4,317)	(414,186)	1,671,355
4101	1365	North Cumberland	C,D	2,677,921	60,263	119,191	1,269	(97,244)	0	(548,411)	2,212,989
4102	5 1235 1525 1585	Central Coventry Fire	C,D	5,066,045	173,223	381,041	19,677	(209,828)	(9,254)	(1,076,586)	4,344,318
4103	1255	Hopkins Hill Fire	C,D	824,710	42,473	57,072	40,042	(983)	0	(191,313)	772,000
4104	1114	Cranston Police	C,D,4	14,063,594	646,001	985,140	72,632	(260,175)	0	(3,079,712)	12,427,479
4105	1115	Cranston Fire	C,D,4	23,690,744	865,559	1,348,457	107,731	(122,754)	0	(5,141,674)	20,748,063
4106	1125	Cumberland Fire	B,D	2,585,255	55,337	137,788	13,858	(171,555)	0	(520,465)	2,100,218
4107	1305	Lincoln Rescue	C	1,843,695	61,805	129,019	1,437	(108,359)	0	(382,819)	1,544,779
4108	1344	New Shoreham Police	B,D	793,314	20,575	49,647	(17,089)	(70,658)	0	(154,071)	621,718
4109	1324	Middletown Police & Fire	C,D	866,698	138,377	195,112	36,416	0	0	(245,588)	991,014
4110	1715	Harrisville Fire District	C,D	507,648	23,104	34,252	(2)	0	0	(112,209)	452,793
4111	1705	Albion Fire District	C	313,640	16,988	46,710	(1)	(20,878)	0	(70,792)	285,666
Police & Fire Units Subtotal				\$ 303,117,546	\$ 6,897,086	\$ 12,065,681	\$ 109,331	\$ (12,618,856)	\$ (238,140)	\$ (61,433,135)	\$ 247,899,514
All MERS Units Total				\$ 1,119,041,107	\$ 22,940,016	\$ 33,514,681	\$ 565,961	\$ (60,900,085)	\$ (1,901,603)	\$ (221,092,267)	\$ 892,167,810

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Table 5

Explanation of Rate Changes										
All rates are gross: before recognizing 0% minimum contribution rate										
Old Unit Number	New Unit Number	Unit	June 30, 2008 Actuarial Valuation	Source of Rate Change						June 30, 2009 Actuarial Valuation
				Salary (Gains)/ Losses	Payroll (Gains)/ Losses	Other Non- Asset (Gains)/ Losses	Asset (Gains)/ Losses	Assumption Change	Provision Changes	
(1)	(2)	(3)	(4)	(5)	(6)	(5)	(6)	(7)	(8)	(9)
General Employee Units										
3002	1012 1019	Bristol	12.32%	(0.06%)	(0.19%)	0.75%	1.60%	-	-	14.42%
3003	1032 1033	Burrillville	3.08%	(0.08%)	(0.04%)	0.06%	1.96%	-	-	4.98%
3004	1052	Central Falls	8.38%	(0.52%)	0.48%	(0.21%)	0.92%	-	-	9.05%
3005	1082	Charlestown	9.94%	0.98%	(0.58%)	1.13%	1.01%	-	-	12.48%
3007	1112 1113	Cranston	4.00%	(0.51%)	(0.24%)	0.28%	2.37%	-	-	5.90%
3008	1122 1123	Cumberland	8.56%	0.06%	0.04%	0.00%	1.02%	-	-	9.68%
3009	1152 1153	East Greenwich	1.60%	(0.51%)	(0.08%)	0.90%	1.80%	-	-	3.71%
3010	1162 1163	East Providence	15.26%	(0.36%)	1.06%	0.41%	1.71%	-	-	18.08%
3011	1183	Exeter/West Greenwich	9.08%	0.69%	(0.32%)	0.10%	1.25%	-	-	10.80%
3012	1192 1193	Foster	6.92%	0.20%	(0.06%)	0.01%	1.00%	-	-	8.07%
3013	1212 1213	Glocester	9.33%	(0.22%)	(0.25%)	0.39%	1.08%	-	-	10.33%
3014	1262	Hopkinton	3.57%	(0.30%)	(0.40%)	0.69%	1.24%	-	-	4.80%
3015	1272 1273	Jamestown	10.18%	0.11%	0.16%	(0.16%)	1.14%	-	-	11.43%
3016	1282 1283	Johnston	9.19%	(0.26%)	0.39%	1.70%	1.81%	-	-	12.83%
3017	1302 1303	Lincoln	6.67%	(0.18%)	0.18%	(0.99%)	0.75%	-	-	6.43%
3019	1322 1323	Middletown	9.50%	(0.03%)	(0.17%)	0.89%	1.03%	-	-	11.22%
3021	1352 1353 1354	Newport	13.81%	0.94%	0.04%	0.43%	1.86%	-	-	17.08%
3022	1342 1343	New Shoreham	7.34%	(0.28%)	(0.02%)	0.42%	0.93%	-	-	8.39%
3023	1372 1373	North Kingstown	11.45%	0.09%	0.24%	0.13%	1.53%	-	-	13.44%
3024	1382 1383	North Providence	(0.89%)	(0.10%)	(0.14%)	0.28%	1.82%	-	-	0.97%
3025	1392 1393	North Smithfield	0.19%	(0.32%)	(0.65%)	0.26%	2.29%	-	-	1.77%
3026	1412 1413	Pawtucket	9.20%	(0.77%)	0.38%	0.95%	2.05%	-	-	11.81%
3027	1515	Union Fire District	5.74%	(0.16%)	0.00%	(0.68%)	0.55%	-	-	5.45%
3029	1452	Richmond	6.72%	(0.08%)	0.02%	0.23%	0.85%	-	-	7.74%
3030	1462 1463	Scituate	11.11%	0.07%	0.61%	0.21%	1.65%	-	-	13.65%
3031	1472 1473	Smithfield	4.79%	(0.12%)	0.10%	(0.15%)	1.80%	-	-	6.42%
3032	1492 1493	South Kingstown	6.20%	(0.24%)	0.03%	0.95%	1.65%	-	-	8.59%
3033	1532 1533	Tiverton	1.07%	(0.49%)	0.10%	0.28%	1.71%	-	-	2.67%

Municipal Employees' Retirement System
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 Actuarial Valuation – June 30, 2009

Table 5

Explanation of Rate Changes

All rates are gross: before recognizing 0% minimum contribution rate

Old Unit Number	New Unit Number	Unit	June 30, 2008 Actuarial Valuation	Source of Rate Change						June 30, 2009 Actuarial Valuation
				Salary (Gains)/ Losses	Payroll (Gains)/ Losses	Other Non-Asset (Gains)/ Losses	Asset (Gains)/ Losses	Assumption Change	Provision Changes	
(1)	(2)	(3)	(4)	(5)	(6)	(5)	(6)	(7)	(8)	(9)
3034	1562	Warren	13.20%	(0.81%)	0.35%	0.74%	1.30%	-	-	14.78%
3036	1622 1623	Westerly	53.40%	(1.24%)	1.99%	2.03%	3.86%	-	-	60.04%
3037	1602	West Greenwich	11.81%	(0.14%)	0.96%	0.81%	1.02%	-	-	14.46%
3039	1632 1633	Woonsocket	0.67%	(0.52%)	(0.68%)	1.34%	2.63%	-	-	3.44%
3040	1073	Chariho School District	9.55%	0.39%	(0.07%)	0.02%	1.05%	-	-	10.94%
3041	1203	Foster/Glocester	12.37%	(0.23%)	(0.13%)	(0.15%)	1.39%	-	-	13.25%
3043	1336	Narragansett Housing	7.35%	(0.34%)	0.05%	0.26%	0.70%	-	-	8.02%
3045	1098	Coventry Lighting District	(62.61%)	(0.29%)	(107.08%)	(17.11%)	20.01%	-	-	(167.08%)
3046	1242	Hope Valley Fire	1.69%	(0.11%)	0.00%	(0.37%)	1.44%	-	-	2.65%
3050	1156	East Greenwich Housing	7.63%	(0.52%)	0.67%	2.65%	0.89%	-	-	11.32%
3051	1116	Cranston Housing	2.52%	(0.27%)	(0.02%)	0.32%	1.75%	-	-	4.30%
3052	1166	East Providence Housing	1.34%	(0.54%)	(0.39%)	(0.09%)	2.22%	-	-	2.54%
3053	1416	Pawtucket Housing	(9.92%)	(0.35%)	1.66%	(0.44%)	2.57%	-	-	(6.48%)
3056	1126	Cumberland Housing	4.83%	(0.22%)	(0.02%)	1.46%	1.38%	-	-	7.43%
3057	1306	Lincoln Housing	8.75%	0.10%	(0.01%)	(1.80%)	1.46%	-	-	8.50%
3059	1016	Bristol Housing	(13.85%)	0.24%	0.64%	(1.21%)	2.63%	-	-	(11.55%)
3065	1036	Burrillville Housing	(4.30%)	1.46%	(1.31%)	4.93%	2.92%	-	-	3.70%
3066	1386	North Providence Housing	21.19%	(1.02%)	3.52%	0.00%	1.74%	-	-	25.43%
3067	1177	East Smithfield Water	0.12%	0.64%	0.33%	(4.69%)	2.70%	-	-	(0.90%)
3068	1227	Greenville Water	(4.93%)	(0.03%)	0.28%	(0.14%)	2.22%	-	-	(2.60%)
3069	1356	Newport Housing	9.76%	(0.65%)	0.57%	1.52%	3.00%	-	-	14.20%
3071	1566	Warren Housing	0.05%	(0.12%)	(0.03%)	(0.26%)	2.44%	-	-	2.08%
3072	1286	Johnston Housing	2.41%	(0.62%)	(0.03%)	0.92%	1.37%	-	-	4.05%
3077	1538	Tiverton Local 2670A	5.78%	(0.60%)	(0.03%)	0.38%	1.65%	-	-	7.18%
3078	1002 1003 1007 1009	Barrington COLA	2.54%	(0.08%)	(0.01%)	0.69%	1.92%	-	-	5.06%
3079	1096	Coventry Housing	2.75%	0.36%	0.27%	0.31%	0.77%	-	-	4.46%
3080	1496	South Kingstown Housing	3.23%	0.24%	(0.14%)	0.78%	0.44%	-	-	4.55%
3081	1403	N. RI Collaborative Adm. Services	9.80%	(1.10%)	0.27%	0.28%	0.62%	-	-	9.87%
3083	1616	West Warwick Housing	7.18%	(0.09%)	0.00%	0.11%	1.51%	-	-	8.71%

Explanation of Rate Changes

All rates are gross: before recognizing 0% minimum contribution rate

Old Unit Number	New Unit Number	Unit	June 30, 2008 Actuarial Valuation	Source of Rate Change						June 30, 2009 Actuarial Valuation
				Salary (Gains)/ Losses	Payroll (Gains)/ Losses	Other Non- Asset (Gains)/ Losses	Asset (Gains)/ Losses	Assumption Change	Provision Changes	
(1)	(2)	(3)	(4)	(5)	(6)	(5)	(6)	(7)	(8)	(9)
3084	1476	Smithfield Housing	(5.20%)	0.13%	3.11%	1.53%	0.96%	-	-	0.53%
3094	1478	Smithfield COLA	5.60%	0.00%	0.02%	0.33%	1.48%	-	-	7.43%
3096	1056	Central Falls Housing	12.25%	(0.71%)	0.21%	(1.87%)	0.72%	-	-	10.60%
3098	1293	Lime Rock Administrative Services	6.34%	0.10%	(0.02%)	0.05%	0.95%	-	-	7.42%
3099	1063	Central Falls Schools	8.54%	(0.30%)	0.05%	0.02%	1.08%	-	-	9.39%
3100	1023	Bristol/Warren Schools	10.39%	0.01%	0.11%	(0.01%)	1.61%	-	-	12.11%
3101	1157 1158	Town of E. Greenwich-COLA-NCE	1.60%	(0.51%)	(0.08%)	0.90%	1.80%	-	-	3.71%
3102	1712	Harrisville Fire District (ADMIN)	8.65%	(0.62%)	0.37%	0.32%	0.72%	-	-	9.44%
		General Employee Units Averages	7.52%	(0.19%)	0.09%	0.31%	1.86%	-	-	9.59%
Police & Fire Units										
4016	1285	Johnston Fire	8.24%	(0.16%)	0.11%	0.68%	0.32%	-	-	9.19%
4029	1454	Richmond Police	10.50%	0.06%	(0.05%)	(0.72%)	0.43%	-	-	10.22%
4031	1474	Smithfield Police	20.85%	(0.38%)	0.52%	(1.21%)	0.60%	-	-	20.38%
4042	1555	Valley Falls Fire	7.68%	(0.15%)	(0.11%)	0.05%	1.98%	-	-	9.45%
4047	1395 1435	North Smithfield Voluntary Fire	13.30%	0.37%	(0.04%)	0.10%	1.98%	-	-	15.71%
4050	1155	East Greenwich Fire	17.68%	(0.72%)	(0.11%)	0.93%	1.96%	-	-	19.74%
4054	1154	East Greenwich Police	11.50%	(0.06%)	0.05%	2.11%	2.97%	-	-	16.57%
4055	1375	North Kingstown Fire	15.09%	(1.01%)	0.26%	0.27%	3.05%	-	-	17.66%
4056	1374	North Kingstown Police	18.87%	0.01%	0.45%	(0.29%)	2.90%	-	-	21.94%
4058	1385	North Providence Fire	9.67%	(1.11%)	0.13%	0.71%	2.46%	-	-	11.86%
4059	1008	Barrington Fire (25)	15.11%	0.24%	(0.64%)	(1.38%)	0.35%	-	-	13.68%
4060	1004	Barrington Police	28.60%	0.30%	(0.05%)	(1.05%)	2.61%	-	-	30.41%
4061	1005	Barrington Fire (20)	5.17%	(0.56%)	(1.33%)	(0.98%)	9.30%	-	-	11.60%
4062	1564 1565	Warren Police & Fire	24.18%	(1.45%)	0.46%	0.04%	2.60%	-	-	25.83%
4063	1494	South Kingstown Police	12.60%	(0.04%)	0.01%	(0.23%)	3.69%	-	-	16.03%
4073	1464	Scituate Police	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	0.00%

Municipal Employees' Retirement System
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Table 5

Explanation of Rate Changes											
All rates are gross: before recognizing 0% minimum contribution rate											
Old Unit Number	New Unit Number	Unit	June 30, 2008 Actuarial Valuation	Source of Rate Change						June 30, 2009 Actuarial Valuation	
				Salary (Gains)/ Losses	Payroll (Gains)/ Losses	Other Non- Asset (Gains)/ Losses	Asset (Gains)/ Losses	Assumption Change	Provision Changes		
(1)	(2)	(3)	(4)	(5)	(6)	(5)	(6)	(7)	(8)	(9)	
4076	1394	North Smithfield Police	12.91%	(0.50%)	0.10%	1.36%	3.21%	-	-	17.08%	
4077	1534	Tiverton Fire	9.03%	0.45%	0.09%	(2.80%)	2.37%	-	-	9.14%	
4082	1194	Foster Police	18.28%	0.01%	(0.67%)	1.36%	2.51%	-	-	21.49%	
4085	1634	Woonsocket Police	14.18%	0.17%	0.28%	1.73%	2.86%	-	-	19.22%	
4086	1084	Charlestown Police	24.03%	1.61%	0.09%	(2.30%)	2.21%	-	-	25.64%	
4087	1264	Hopkinton Police	16.90%	0.25%	1.16%	3.43%	2.27%	-	-	24.01%	
4088	1214	Glocester Police	16.08%	(0.56%)	0.02%	(0.49%)	1.96%	-	-	17.01%	
4089	1604	West Greenwich Police/Rescue	17.25%	2.88%	(0.97%)	(0.65%)	1.58%	-	-	20.09%	
4090	1034	Burrillville Police	10.17%	(0.46%)	(0.18%)	(1.39%)	2.65%	-	-	10.79%	
4091	1148	Cumberland Rescue	7.38%	(1.71%)	(0.43%)	0.42%	2.00%	-	-	7.66%	
4093	1635	Woonsocket Fire	10.68%	(0.77%)	(0.02%)	0.40%	1.76%	-	-	12.05%	
4094	1015	Bristol Fire	(7.01%)	(0.08%)	(0.04%)	0.54%	2.85%	-	-	(3.74%)	
4095	1135	Cumberland Hill Fire	18.37%	(0.34%)	0.94%	0.22%	2.69%	-	-	21.88%	
4096	1014	Bristol Police	9.81%	(0.18%)	0.28%	(0.12%)	0.66%	-	-	10.45%	
4098	1095	Coventry Fire	10.22%	0.97%	0.03%	0.00%	1.58%	-	-	12.80%	
4099	1505	South Kingstown EMT	3.28%	(0.82%)	0.30%	0.51%	1.40%	-	-	4.67%	
4101	1365	North Cumberland	20.61%	(0.81%)	1.44%	0.08%	1.78%	-	-	23.10%	
4102	1045 1235 1525 1585	Central Coventry Fire	19.63%	(0.50%)	0.42%	0.22%	1.30%	-	-	21.07%	
4103	1255	Hopkins Hill Fire	16.26%	(0.29%)	0.02%	(3.34%)	0.71%	-	-	13.36%	
4104	1114	Cranston Police	20.95%	(0.84%)	(0.13%)	0.46%	0.99%	-	-	21.43%	
4105	1115	Cranston Fire	20.57%	0.04%	(0.38%)	(0.21%)	1.31%	-	-	21.33%	
4106	1125	Cumberland Fire	22.01%	(0.29%)	0.06%	(0.58%)	2.06%	-	-	23.26%	
4107	1305	Lincoln Rescue	17.58%	(0.16%)	0.01%	0.18%	1.14%	-	-	18.75%	
4108	1344	New Shoreham Police	23.61%	(0.04%)	(0.09%)	(0.38%)	1.64%	-	-	24.74%	
4109	1324	Middletown Police & Fire	13.11%	0.14%	0.20%	(1.21%)	0.20%	-	-	12.44%	
4110	1715	Harrisville Fire District	12.15%	0.92%	(0.02%)	(0.71%)	0.92%	-	-	13.26%	
4111	1705	Albion Fire District	22.15%	(0.28%)	(2.55%)	(2.08%)	0.79%	-	-	18.03%	
		Police & Fire Units Averages	15.42%	(0.34%)	0.08%	0.12%	1.96%	-	-	17.24%	
		All MERS Units Averages	9.41%	(0.23%)	0.14%	0.27%	1.88%	-	-	11.48%	

Units with no active members are excluded from this exhibit

Development of Actuarial Value of Assets (All Units in Aggregate)

	<u>Year Ending</u> <u>June 30, 2009</u>		
1. Market value of assets at beginning of year	\$ 1,119,041,107		
2. Net new investments			
a. Contributions	\$ 57,020,658		
b. Benefits paid	<u>(62,801,688)</u>		
c. Subtotal	(5,781,030)		
3. Market value of assets at end of year	\$ 892,167,810		
4. Net earnings (3-1-2) (includes misc revenues)	\$ (221,092,267)		
5. Assumed investment return rate	8.25%		
6. Expected return	\$ 92,082,424		
7. Excess return (4-6)	\$ (313,174,691)		
8. Excess return on assets as of 06/30/2009:			
<u>Period End</u>	<u>Excess Return</u>	<u>Percent Deferred</u>	<u>Deferred Amount</u>
(1)	(2)	(3)	(4)
June 30, 2005	\$ 25,656,951	0%	\$ 0
June 30, 2006	31,046,025	20%	6,209,205
June 30, 2007	101,234,264	40%	40,493,706
June 30, 2008	(167,270,572)	60%	(100,362,343)
June 30, 2009	(313,174,691)	80%	<u>(250,539,752)</u>
			\$ (304,199,184)
9. Actuarial value of assets as of June 30, 2009 (Item 3 - Item 8)	\$ 1,196,366,994		
10. Ratio of actuarial value to market value			134.1%

History of Investment Return Rates

Year Ending June 30 of	Market	Actuarial
(1)	(2)	(3)
1995	17.0%	10.2%
1996	13.7%	13.7%
1997	19.1%	19.1%
1998	16.1%	16.5%
1999	10.1%	14.7%
2000	9.1%	8.8%
2001	-11.0%	4.9%
2002	-8.4%	0.9%
2003	2.5%	-0.7%
2004	19.2%	0.7%
2005	11.4%	2.3%
2006	11.7%	7.7%
2007	18.3%	12.9%
2008	-5.8%	10.5%
2009	-19.8%	2.4%
Average Returns:		
Last 5 Years	2.1%	7.1%
Last 10 Years	1.9%	4.9%

Schedule of Funding Progress

Old Unit Number	New Unit Number	Unit	Code (s)	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability (AAL)	Unfunded Actuarial Liability (UAAL) (5) - (4)	Funded Ratio (4)/(5)	Annual Covered Payroll	UAAL as % of Payroll (7)/(9)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
General Employee Units									
3002	1012 1019	Bristol	B	15,039,954	20,791,168	5,751,215	72.3%	4,406,314	130.5%
3003	1032 1033	Burrillville	C	23,499,023	22,446,076	(1,052,947)	104.7%	5,589,303	(18.8%)
3004	1052	Central Falls		5,212,157	6,656,557	1,444,400	78.3%	2,446,693	59.0%
3005	1082	Charlestown	C	4,111,545	5,935,641	1,824,096	69.3%	1,803,892	101.1%
3007	1112 1113	Cranston	B	128,570,070	126,143,717	(2,426,353)	101.9%	25,915,483	(9.4%)
3008	1122 1123	Cumberland		19,203,157	24,970,902	5,767,745	76.9%	8,343,966	69.1%
3009	1152 1153	East Greenwich	C	7,611,272	6,218,210	(1,393,061)	122.4%	1,129,564	(123.3%)
3010	1162 1163	East Providence	B	63,607,593	94,579,444	30,971,851	67.3%	17,851,998	173.5%
3011	1183	Exeter/West Greenwich	B	6,935,738	8,415,997	1,480,259	82.4%	2,473,983	59.8%
3012	1192 1193	Foster		2,861,484	3,325,353	463,869	86.1%	1,290,836	35.9%
3013	1212 1213	Glocester	C	6,192,776	7,649,321	1,456,545	81.0%	2,500,025	58.3%
3014	1262	Hopkinton	C	3,804,392	3,271,996	(532,396)	116.3%	1,407,364	(37.8%)
3015	1272 1273	Jamestown	C	8,736,704	11,355,851	2,619,147	76.9%	3,297,840	79.4%
3016	1282 1283	Johnston	C	30,947,972	37,747,077	6,799,105	82.0%	8,196,113	83.0%
3017	1302 1303	Lincoln		1,307,918	1,483,154	175,236	88.2%	851,031	20.6%
3019	1322 1323	Middletown	C	12,574,146	16,612,259	4,038,113	75.7%	5,268,332	76.6%
3021	352 1353 1354	Newport	B	46,291,715	65,391,781	19,100,065	70.8%	11,855,170	161.1%
3022	1342 1343	New Shoreham	B	4,500,415	5,209,876	709,462	86.4%	2,089,994	33.9%
3023	1372 1373	North Kingstown	C	40,052,448	52,144,406	12,091,958	76.8%	11,833,062	102.2%
3024	1382 1383	North Providence		27,063,016	23,197,133	(3,865,883)	116.7%	7,197,732	(53.7%)
3025	1392 1393	North Smithfield	B	13,501,632	11,489,027	(2,012,604)	117.5%	2,856,531	(70.5%)
3026	1412 1413	Pawtucket	C	92,326,512	110,065,250	17,738,738	83.9%	21,468,606	82.6%
3027	1515	Union Fire District		354,633	392,852	38,219	90.3%	235,722	16.2%
3029	1452	Richmond		1,470,905	1,664,550	193,644	88.4%	757,557	25.6%
3030	1462 1463	Scituate	B	9,338,334	12,103,315	2,764,981	77.2%	2,691,498	102.7%
3031	1472 1473	Smithfield	C	11,522,530	11,040,131	(482,399)	104.4%	3,014,073	(16.0%)
3032	1492 1493	South Kingstown	B	43,192,087	47,009,273	3,817,186	91.9%	11,974,048	31.9%
3033	1532 1533	Tiverton	C	11,267,260	9,423,527	(1,843,733)	119.6%	3,047,377	(60.5%)

Schedule of Funding Progress

Old Unit Number	New Unit Number	Unit	Code (s)	Actuarial Value of Assets (AVA)	Actuarial Liability (AAL)	Unfunded Actuarial Liability (UAAL) (5) - (4)	Funded Ratio (4)/(5)	Annual Covered Payroll	UAAL as % of Payroll (7)/(9)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3034	1562	Warren	C	4,502,664	6,973,207	2,470,543	64.6%	1,723,468	143.3%
3036	1622 1623	Westerly		439,397	962,696	523,299	45.6%	64,591	810.2%
3037	1602	West Greenwich	C	2,168,589	3,187,703	1,019,114	68.0%	917,798	111.0%
3039	1632 1633	Woonsocket	B	64,835,107	59,703,241	(5,131,866)	108.6%	11,960,719	(42.9%)
3040	1073	Chariho School District	C	12,643,833	16,218,058	3,574,225	78.0%	5,152,916	69.4%
3041	1203	Foster/Glocester	B	4,923,096	6,387,816	1,464,720	77.1%	1,584,082	92.5%
3042	1528	Tiogue Fire & Lighting	C,5	40,282	5,314	(34,968)	758.0%	0	-
3043	1336	Narragansett Housing	C	297,738	372,374	74,636	80.0%	172,527	43.3%
3045	1098	Coventry Lighting District	C	1,414,169	648,642	(765,527)	218.0%	35,615	(2149.4%)
3046	1242	Hope Valley Fire	C	379,682	330,307	(49,375)	114.9%	115,376	(42.8%)
3050	1156	East Greenwich Housing	C	905,431	1,167,448	262,017	77.6%	448,906	58.4%
3051	1116	Cranston Housing	C	3,708,573	3,440,664	(267,909)	107.8%	957,523	(28.0%)
3052	1166	East Providence Housing	B	2,763,632	2,367,009	(396,623)	116.8%	580,016	(68.4%)
3053	1416	Pawtucket Housing	B	11,701,288	8,135,509	(3,565,778)	143.8%	2,167,874	(164.5%)
3056	1126	Cumberland Housing	C	1,128,975	1,197,304	68,330	94.3%	427,894	16.0%
3057	1306	Lincoln Housing	B	1,426,944	1,472,735	45,791	96.9%	441,514	10.4%
3059	1016	Bristol Housing		1,861,868	1,165,075	(696,793)	159.8%	337,740	(206.3%)
3065	1036	Burrillville Housing	B	963,028	880,818	(82,210)	109.3%	159,971	(51.4%)
3066	1386	North Providence Housing	B	787,678	1,397,078	609,399	56.4%	227,002	268.5%
3067	1177	East Smithfield Water	C	881,832	754,811	(127,021)	116.8%	134,975	(94.1%)
3068	1227	Greenville Water	B	1,043,052	790,864	(252,188)	131.9%	221,886	(113.7%)
3069	1356	Newport Housing	C	6,666,585	7,853,802	1,187,217	84.9%	1,109,281	107.0%
3071	1566	Warren Housing	B	1,277,072	1,082,610	(194,462)	118.0%	244,552	(79.5%)
3072	1286	Johnston Housing		1,027,852	947,336	(80,516)	108.5%	350,512	(23.0%)
3077	1538	Tiverton Local 2670A	C	3,302,979	3,395,971	92,992	97.3%	938,855	9.9%
3078	2 1003 1007 1009	Barrington COLA	C	29,456,427	27,991,776	(1,464,651)	105.2%	7,220,306	(20.3%)
3079	1096	Coventry Housing		839,981	797,649	(42,332)	105.3%	487,984	(8.7%)
3080	1496	South Kingstown Housing	C	185,321	107,038	(78,283)	173.1%	164,024	(47.7%)
3081	1403	N. RI Collaborative Adm. Services	C	2,352,919	3,022,999	670,080	77.8%	1,502,841	44.6%
3083	1616	West Warwick Housing	B	1,236,515	1,404,218	167,702	88.1%	367,272	45.7%

Schedule of Funding Progress

Old Unit Number	New Unit Number	Unit	Code (s)	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability (AAL)	Unfunded		Annual Covered Payroll	UAAL as % of Payroll (7)/(9)	
						Actuarial Liability (UAAL) (5) - (4)	Funded Ratio (4)/(5)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
3084	1476	Smithfield Housing		291,999	220,669	(71,330)	132.3%	130,488	(54.7%)	
3094	1478	Smithfield COLA	C	11,858,810	12,595,388	736,578	94.2%	3,573,554	20.6%	
3096	1056	Central Falls Housing	C	1,653,693	2,332,747	679,054	70.9%	908,788	74.7%	
3098	1293	Lime Rock Administrative Services		194,781	240,224	45,443	81.1%	86,500	52.5%	
3099	1063	Central Falls Schools	C	11,510,996	13,080,984	1,569,987	88.0%	4,686,321	33.5%	
3100	1023	Bristol/Warren Schools	B	14,647,851	18,113,045	3,465,193	80.9%	4,302,408	80.5%	
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	17,136,331	16,311,482	(824,849)	105.1%	5,115,215	(16.1%)	
3102	1712	Harrisville Fire District (ADMIN)	C	335,386	447,299	111,913	75.0%	184,015	60.8%	
3103	1702	Albion Fire District (ADMIN)	C	52,348	73,186	20,837	71.5%	0	-	
General Employee Units Subtotal				\$ 863,942,093	\$ 974,562,323	\$ 110,620,230	88.6%	\$ 230,999,416	47.9%	
Police & Fire Units										
4016	1285	Johnston Fire	D	1,941,048	1,944,014	2,965	99.8%	2,316,237	0.1%	
4029	1454	Richmond Police	6	666,743	818,067	151,324	81.5%	544,497	27.8%	
4031	1474	Smithfield Police	C,D	4,219,709	7,180,764	2,961,055	58.8%	2,345,796	126.2%	
4042	1555	Valley Falls Fire	D	3,005,363	3,036,987	31,624	99.0%	707,478	4.5%	
4047	1395 1435	North Smithfield Voluntary Fire	B,D	4,976,447	5,506,044	529,597	90.4%	1,124,490	47.1%	
4050	1155	East Greenwich Fire	C,D	10,154,829	12,629,805	2,474,976	80.4%	2,302,492	107.5%	
4054	1154	East Greenwich Police	C,D	12,515,512	13,549,427	1,033,914	92.4%	1,933,255	53.5%	
4055	1375	North Kingstown Fire	C,D	26,351,379	29,534,211	3,182,832	89.2%	4,005,886	79.5%	
4056	1374	North Kingstown Police	C,D	16,853,498	20,673,297	3,819,798	81.5%	2,684,648	142.3%	
4058	1385	North Providence Fire	D	27,898,425	30,293,297	2,394,872	92.1%	5,251,101	45.6%	
4059	1008	Barrington Fire (25)	C	874,160	1,314,721	440,560	66.5%	804,843	54.7%	
4060	1004	Barrington Police	C,D	7,193,130	10,602,888	3,409,758	67.8%	1,291,422	264.0%	
4061	1005	Barrington Fire (20)	C,D	8,731,954	8,662,986	(68,968)	100.8%	474,279	(14.5%)	
4062	1564 1565	Warren Police & Fire	C,D	7,799,931	10,579,134	2,779,203	73.7%	1,392,633	199.6%	
4063	1494	South Kingstown Police	B,1	21,236,264	22,560,153	1,323,890	94.1%	2,734,277	48.4%	
4073	1464	Scituate Police	5	173,152	24,272	(148,880)	713.4%	0	-	

Schedule of Funding Progress

Old Unit Number	New Unit Number	Unit	Code (s)	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability (AAL)	Unfunded		Annual Covered Payroll	UAAL as % of Payroll (7)/(9)
						Actuarial Liability (UAAL) (5) - (4)	Funded Ratio (4)/(5)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4076	1394	North Smithfield Police	C,D	7,928,277	8,661,456	733,180	91.5%	1,154,239	63.5%
4077	1534	Tiverton Fire	C,D	8,542,359	7,729,733	(812,626)	110.5%	1,671,055	(48.6%)
4082	1194	Foster Police	C,D	2,166,398	2,611,328	444,931	83.0%	390,876	113.8%
4085	1634	Woonsocket Police	C,D	29,773,835	34,272,940	4,499,105	86.9%	4,728,198	95.2%
4086	1084	Charlestown Police	C,D	5,813,138	8,128,234	2,315,096	71.5%	1,172,189	197.5%
4087	1264	Hopkinton Police	C,D,6	4,109,089	5,075,599	966,510	81.0%	786,001	123.0%
4088	1214	Glocester Police	C,D	4,476,658	5,162,180	685,522	86.7%	1,003,507	68.3%
4089	1604	West Greenwich Police/Rescue	C,D	2,551,645	3,274,318	722,673	77.9%	709,164	101.9%
4090	1034	Burrillville Police	C,D,6	7,553,018	7,322,217	(230,800)	103.2%	1,285,819	(17.9%)
4091	1148	Cumberland Rescue	C,D	4,040,881	3,451,531	(589,350)	117.1%	891,927	(66.1%)
4093	1635	Woonsocket Fire	C,D	27,011,294	26,832,008	(179,287)	100.7%	6,559,575	(2.7%)
4094	1015	Bristol Fire	D	264,526	176,977	(87,549)	149.5%	46,256	(189.3%)
4095	1135	Cumberland Hill Fire	C,D	3,722,209	4,533,918	811,709	82.1%	625,764	129.7%
4096	1014	Bristol Police	C,D	2,840,215	2,410,103	(430,112)	117.8%	1,572,138	(27.4%)
4098	1095	Coventry Fire	D	2,442,260	2,834,810	392,550	86.2%	697,160	56.3%
4099	1505	South Kingstown EMT	C,D	2,241,231	1,404,279	(836,952)	159.6%	707,353	(118.3%)
4101	1365	North Cumberland	C,D	2,967,543	4,026,259	1,058,716	73.7%	662,356	159.8%
4102	5 1235 1525 1585	Central Coventry Fire	C,D	5,825,584	8,219,812	2,394,228	70.9%	1,885,943	127.0%
4103	1255	Hopkins Hill Fire	C,D	1,035,227	1,123,709	88,483	92.1%	484,922	18.2%
4104	1114	Cranston Police	C,D,4	16,664,831	20,823,809	4,158,978	80.0%	6,578,878	63.2%
4105	1115	Cranston Fire	C,D,4	27,822,453	33,859,726	6,037,272	82.2%	8,404,470	71.8%
4106	1125	Cumberland Fire	B,D	2,816,322	3,735,601	919,279	75.4%	614,853	149.5%
4107	1305	Lincoln Rescue	C	2,071,497	2,923,841	852,344	70.8%	766,026	111.3%
4108	1344	New Shoreham Police	B,D	833,702	1,251,857	418,154	66.6%	237,034	176.4%
4109	1324	Middletown Police & Fire	C,D	1,328,917	1,090,815	(238,102)	121.8%	1,602,902	(14.9%)

Schedule of Funding Progress

Old Unit Number	New Unit Number	Unit	Code (s)	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability (AAL)	Unfunded Actuarial Accrued Liability (UAAL) (5) - (4)	Funded Ratio (4)/(5)	Annual Covered Payroll	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
4110	1715	Harrisville Fire District	C,D	607,180	650,845	43,665	93.3%	17.0%	
4111	1705	Albion Fire District	C	383,069	592,394	209,326	64.7%	116.7%	
Police & Fire Units Subtotal				<u>\$ 332,424,901</u>	<u>\$ 381,090,367</u>	<u>\$ 48,665,466</u>	87.2%	<u>\$ 75,588,025</u>	64.4%
All MERS Units Total				1,196,366,995	1,355,652,690	159,285,696	88.3%	306,587,441	52.0%

B - Municipality has adopted COLA Plan B

D - Municipality has adopted the "20-year" optional Police & Fire Plan

C - Municipality has adopted COLA Plan C

1 - S.Kingstown Police have a unique plan that provides 2.0% of salary for service prior to July 1, 1993, and 2.5% of salary for service on or after July 1, 1993.

2 - New unit in 2009 valuation.

3 - Closed unit.

4 - Cranston Fire and Police are contributing 10% due to special plan provision.

5 - This unit has no active members.

6 - Special plan provisions apply to this unit.

**Distribution of Assets at Market Value
(Percentage of Total Investments)**

Item (1)	June 30, 2009 (2)	June 30, 2008 (3)
Cash & cash equivalents	4.9%	5.7%
U.S. government & agency securities	15.8%	15.9%
Corporate bonds & notes	8.5%	7.1%
Foreign bonds	0.0%	0.0%
U.S. equity securities	39.0%	39.6%
Foreign equity securities	18.3%	18.2%
Real estate, venture capital, other	13.5%	13.5%
Total investments	100.0%	100.0%

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2009

Table 9

Active Member Statistics

Old Unit Number	New Unit Number	Unit	Code(s)	Active Employees as of June 30, 2009				Active Employees as of June 30, 2008			
				Number	Average Age	Average Service	Average Salary	Number	Average Age	Average Service	Average Salary
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
General Employee Units											
3002	1012 1019	Bristol	B	105	46.7	12.1	41,965	102	46.0	12.0	40,540
3003	1032 1033	Burrillville	C	149	51.8	13.2	37,512	151	50.9	12.4	35,899
3004	1052	Central Falls		68	48.8	9.2	35,981	75	47.9	8.6	35,776
3005	1082	Charlestown	C	38	46.6	12.4	47,471	38	45.9	11.2	41,956
3007	1112 1113	Cranston	B	821	52.4	12.1	31,566	861	51.7	11.5	31,329
3008	1122 1123	Cumberland		256	51.6	10.7	32,594	256	51.0	10.3	31,501
3009	1152 1153	East Greenwich	C	16	50.8	11.2	70,598	17	49.5	11.8	68,965
3010	1162 1163	East Providence	B	436	49.7	11.3	40,945	475	49.6	11.1	39,484
3011	1183	Exeter/West Greenwich	B	79	51.6	11.0	31,316	76	51.7	10.5	28,617
3012	1192 1193	Foster		43	52.6	10.1	30,019	42	51.1	9.8	28,481
3013	1212 1213	Glocester	C	73	50.8	10.8	34,247	71	50.4	11.7	31,570
3014	1262	Hopkinton	C	34	53.1	9.3	41,393	36	50.3	8.4	41,350
3015	1272 1273	Jamestown	C	83	50.0	10.9	39,733	88	49.5	9.7	37,067
3016	1282 1283	Johnston	C	273	51.1	9.1	30,022	282	50.9	9.7	30,391
3017	1302 1303	Lincoln		18	48.6	7.4	47,280	20	49.3	6.9	50,804
3019	1322 1323	Middletown	C	130	50.3	12.8	40,526	127	50.1	12.4	38,525
3021	1352 1353 1354	Newport	B	272	50.7	12.7	43,585	290	49.7	11.8	39,297
3022	1342 1343	New Shoreham	B	56	49.3	8.6	37,321	55	48.0	7.8	35,872
3023	1372 1373	North Kingstown	C	350	51.4	11.8	33,809	370	51.5	11.6	31,790
3024	1382 1383	North Providence		243	50.5	10.7	29,620	250	49.7	10.1	28,280
3025	1392 1393	North Smithfield	B	90	51.0	9.8	31,739	93	50.2	9.0	32,077
3026	1412 1413	Pawtucket	C	593	50.3	12.4	36,203	636	48.7	11.9	35,280
3027	1515	Union Fire District		6	53.3	11.2	39,287	6	52.3	10.2	37,958
3029	1452	Richmond		23	55.1	7.7	32,937	23	55.0	7.6	32,299
3030	1462 1463	Scituate	B	84	51.8	10.4	32,042	92	52.0	10.0	30,944
3031	1472 1473	Smithfield	C	88	51.5	10.1	34,251	85	50.7	9.8	32,867
3032	1492 1493	South Kingstown	B	359	51.2	11.4	33,354	366	50.2	11.5	32,545
3033	1532 1533	Tiverton	C	90	51.6	8.9	33,860	87	49.6	9.1	33,106
3034	1562	Warren	C	43	44.2	9.9	40,081	42	44.1	9.3	40,782
3036	1622 1623	Westerly		1	58.3	26.9	64,591	1	57.3	26.0	64,034
3037	1602	West Greenwich	C	23	49.7	11.4	39,904	26	50.2	11.9	38,559
3039	1632 1633	Woonsocket	B	367	51.6	11.8	32,591	399	51.0	11.7	32,408
3040	1073	Charlton School District	C	169	48.9	10.3	30,491	169	47.7	9.7	28,801
3041	1203	Foster/Glocester	B	48	49.9	9.7	33,002	51	48.8	8.7	29,143
3042	1528	Tiogue Fire & Lighting	C,5	---	---	---	---	---	---	---	---
3043	1336	Narragansett Housing	C	4	46.7	10.2	43,132	4	45.7	9.2	42,153
3045	1098	Coventry Lighting District	C	1	69.7	32.3	35,615	2	67.3	34.0	38,283
3046	1242	Hope Valley Fire	C	3	55.8	17.2	38,459	3	54.8	16.2	36,805
3050	1156	East Greenwich Housing	C	10	48.0	8.1	44,891	11	49.0	9.2	47,690
3051	1116	Cranston Housing	C	20	53.8	14.1	47,876	20	52.8	12.9	46,162
3052	1166	East Providence Housing	B	13	52.2	8.8	44,617	13	58.0	12.9	45,490
3053	1416	Pawtucket Housing	B	45	51.2	12.3	48,175	39	51.1	13.2	48,355
3056	1126	Cumberland Housing	C	11	45.4	6.5	38,899	12	46.5	8.5	39,604
3057	1306	Lincoln Housing	B	11	54.6	6.3	40,138	11	55.1	7.1	39,339
3059	1016	Bristol Housing		9	47.7	10.4	37,527	9	48.8	9.4	34,734
3065	1036	Burrillville Housing	B	4	47.4	7.2	39,993	5	49.8	12.0	37,769
3066	1386	North Providence Housing	B	5	52.6	12.1	45,400	6	52.5	9.3	43,895

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2009

Table 9

Active Member Statistics

Old Unit Number	New Unit Number	Unit	Code(s)	Active Employees as of June 30, 2009				Active Employees as of June 30, 2008			
				Number	Average Age	Average Service	Average Salary	Number	Average Age	Average Service	Average Salary
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
3067	1177	East Smithfield Water	C	3	45.9	11.3	44,992	3	44.9	10.3	41,741
3068	1227	Greenville Water	B	4	48.5	11.1	55,472	4	47.8	10.1	51,921
3069	1356	Newport Housing	C	26	51.6	12.1	42,665	28	51.0	11.3	42,258
3071	1566	Warren Housing	B	6	58.5	12.4	40,759	6	57.5	11.4	39,173
3072	1286	Johnston Housing		8	54.2	13.6	43,814	8	54.9	15.3	42,579
3077	1538	Tiverton Local 2670A	C	27	51.8	10.4	34,772	27	50.7	9.5	34,352
3078	02 1003 1007 10	Barrington COLA	C	188	51.0	11.4	38,406	187	51.2	11.0	37,011
3079	1096	Coventry Housing		13	50.0	6.5	37,537	11	47.2	6.8	36,048
3080	1496	South Kingstown Housing	C	5	53.4	2.3	32,805	1	51.7	9.0	45,715
3081	1403	N. RI Collaborative Adm. Services	C	57	50.8	8.2	26,366	58	49.2	7.1	27,286
3083	1616	West Warwick Housing	B	8	59.2	16.9	45,909	8	58.2	15.9	44,073
3084	1476	Smithfield Housing		3	47.6	12.5	43,496	2	45.2	17.3	39,982
3094	1478	Smithfield COLA	C	75	49.0	11.1	47,647	83	48.6	10.2	44,718
3096	1056	Central Falls Housing	C	22	45.2	7.3	41,309	21	47.8	7.1	43,213
3098	1293	Lime Rock Administrative Services		2	53.3	18.2	43,250	2	52.3	17.2	41,215
3099	1063	Central Falls Schools	C	149	51.1	9.0	31,452	152	50.6	8.6	30,457
3100	1023	Bristol/Warren Schools	B	129	51.8	11.2	33,352	135	51.7	10.8	31,240
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	162	50.4	9.9	31,575	164	50.1	10.0	30,592
3102	1712	Harrisville Fire District (ADMIN)	C	4	46.2	11.7	46,004	4	45.2	10.8	48,213
3103	1702	Albion Fire District (ADMIN)	C	---	---	---	---	---	---	---	---
All General Employee Units				6,554	50.9	11.2	\$ 35,246	6,797	50.3	10.9	\$ 34,109
Police & Fire Units											
4016	1285	Johnston Fire	D	45	37.2	4.5	51,472	32	37.7	5.2	51,974
4029	1454	Richmond Police	6	12	35.6	6.3	45,375	12	34.8	5.3	\$ 41,957
4031	1474	Smithfield Police	C,D	38	36.3	11.5	61,731	40	35.2	10.4	59,423
4042	1555	Valley Falls Fire	D	14	37.8	9.6	50,534	15	40.5	12.0	48,920
4047	1395 1435	North Smithfield Voluntary Fire	B,D	22	41.4	10.4	51,113	21	40.7	9.7	49,848
4050	1155	East Greenwich Fire	C,D	44	39.3	9.1	52,329	40	39.2	10.6	54,402
4054	1154	East Greenwich Police	C,D	31	42.0	14.1	62,363	33	40.9	12.1	58,029
4055	1375	North Kingstown Fire	C,D	76	42.1	14.7	52,709	80	41.4	14.1	51,898
4056	1374	North Kingstown Police	C,D	48	37.4	11.6	55,930	50	37.5	11.6	54,260
4058	1385	North Providence Fire	D	97	40.0	12.9	54,135	104	39.7	12.8	54,198
4059	1008	Barrington Fire (25)	C	16	32.7	5.1	50,303	14	38.4	4.7	47,010
4060	1004	Barrington Police	C,D	22	39.0	12.6	58,701	22	39.9	12.1	56,188
4061	1005	Barrington Fire (20)	C,D	8	51.2	25.0	59,285	9	50.5	24.7	57,893
4062	1564 1565	Warren Police & Fire	C,D	24	40.7	14.5	58,026	24	39.7	13.4	57,582
4063	1494	South Kingstown Police	B,1	51	39.4	11.6	53,613	55	38.4	10.9	50,558
4073	1464	Scituate Police	5	---	---	---	---	---	---	---	---
4076	1394	North Smithfield Police	C,D	21	39.8	13.2	54,964	21	40.6	14.0	55,758
4077	1534	Tiverton Fire	C,D	33	40.1	10.5	50,638	33	40.2	10.7	47,929
4082	1194	Foster Police	C,D	8	40.0	8.0	48,860	7	39.2	7.4	48,161

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2009

Table 9

Active Member Statistics

Old Unit Number	New Unit Number	Unit	Code(s)	Active Employees as of June 30, 2009				Active Employees as of June 30, 2008			
				Number	Average Age	Average Service	Average Salary	Number	Average Age	Average Service	Average Salary
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
4085	1634	Woonsocket Police	C,D	87	38.6	11.3	54,347	93	38.1	12.6	52,129
4086	1084	Charlestown Police	C,D	19	38.7	12.7	61,694	20	41.7	12.6	56,361
4087	1264	Hopkinton Police	C,D,6	14	41.4	10.3	56,143	16	39.4	12.6	55,863
4088	1214	Glocester Police	C,D	19	41.5	12.1	52,816	19	40.7	11.1	50,905
4089	1604	West Greenwich Police/Rescue	C,D	13	42.4	9.6	54,551	13	41.5	8.6	45,401
4090	1034	Burrillville Police	C,D,6	24	43.1	15.9	53,576	25	42.0	14.8	51,454
4091	1148	Cumberland Rescue	C,D	18	40.0	11.4	49,552	18	39.1	10.2	50,290
4093	1635	Woonsocket Fire	C,D	115	41.3	13.7	57,040	113	39.3	13.1	56,309
4094	1015	Bristol Fire	D	1	52.5	8.5	46,256	1	51.5	7.5	44,477
4095	1135	Cumberland Hill Fire	C,D	13	38.6	11.8	48,136	14	38.8	12.2	48,677
4096	1014	Bristol Police	C,D	30	35.0	6.6	52,405	26	33.2	6.5	52,973
4098	1095	Coventry Fire	D	13	39.7	11.9	53,628	14	40.0	12.0	48,123
4099	1505	South Kingstown EMT	C,D	17	38.5	8.0	41,609	16	38.3	7.5	41,061
4101	1365	North Cumberland	C,D	14	45.1	14.1	47,311	15	45.5	14.3	49,101
4102	45 1235 1525 15	Central Coventry Fire	C,D	38	39.7	11.8	49,630	40	38.4	10.7	47,331
4103	1255	Hopkins Hill Fire	C,D	11	47.3	8.9	44,084	11	45.1	9.7	43,778
4104	1114	Cranston Police	C,D,4	126	38.3	8.7	52,213	118	35.7	8.2	51,954
4105	1115	Cranston Fire	C,D,4	138	40.7	11.8	60,902	126	40.7	11.9	59,048
4106	1125	Cumberland Fire	B,D	13	43.9	12.5	47,296	13	43.4	11.5	45,603
4107	1305	Lincoln Rescue	C	16	41.5	10.2	47,877	16	37.5	9.8	46,126
4108	1344	New Shoreham Police	B,D	5	40.7	4.1	47,407	5	40.6	3.3	44,716
4109	1324	Middletown Police & Fire	C,D	35	37.0	3.3	45,797	31	36.1	3.0	43,089
4110	1715	Harrisville Fire District	C,D	5	39.3	9.7	51,343	5	38.3	8.7	47,756
4111	1705	Albion Fire District	C	4	41.7	10.6	44,843	3	42.8	12.4	44,474
All Police & Fire Units				1,398	39.8	11.1	\$ 54,069	1,383	39.1	11.1	\$ 52,743
All MERS Units				7,952	48.9	11.2	\$ 38,555	8,180	48.4	10.9	\$ 37,260

B - Municipality has adopted COLA Plan B

C - Municipality has adopted COLA Plan C

1 - S.Kingstown Police have a unique plan that provides 2.0% of salary for service prior to July 1, 1993, and 2.5% of salary for service on or after July 1, 1993.

2 - New unit in 2009 valuation.

4 - Cranston Fire and Police are contributing 10% due to special plan provision.

6 - Special plan provisions apply to this unit.

D - Municipality has adopted the "20-year" optional Police & Fire Plan

3 - Closed unit.

5 - This unit has no active members.

Retired Member Statistics

Old Unit Number	New Unit Number	Unit	Code(s)	Retirees and Beneficiaries As of June 30, 2009			Retirees and Beneficiaries As of June 30, 2008		
				Number	Average Age	Average Monthly Benefit	Number	Average Age	Average Monthly Benefit
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
General Employee Units									
3002	1012 1019	Bristol	B	83	76.0	1,100	81	75.4	1,064
3003	1032 1033	Burrillville	C	79	73.8	913	77	73.5	876
3004	1052	Central Falls		30	72.2	1,009	28	72.3	895
3005	1082	Charlestown	C	10	72.3	1,370	10	71.3	1,338
3007	1112 1113	Cranston	B	489	74.0	1,113	469	74.0	1,045
3008	1122 1123	Cumberland		146	74.7	706	145	74.5	663
3009	1152 1153	East Greenwich	C	69	76.8	527	67	76.3	515
3010	1162 1163	East Providence	B	359	71.7	1,364	340	72.0	1,337
3011	1183	Exeter/West Greenwich	B	24	68.0	963	23	67.4	957
3012	1192 1193	Foster		18	72.2	645	16	72.4	618
3013	1212 1213	Glocester	C	24	68.5	862	23	68.7	799
3014	1262	Hopkinton	C	11	74.4	597	11	73.4	592
3015	1272 1273	Jamestown	C	27	68.1	1,161	26	68.1	1,139
3016	1282 1283	Johnston	C	181	74.1	1,117	167	74.7	1,002
3017	1302 1303	Lincoln		4	67.8	1,319	3	66.8	1,759
3019	1322 1323	Middletown	C	18	65.3	1,379	17	64.6	1,338
3021	1352 1353 1354	Newport	B	212	71.6	1,400	207	71.4	1,333
3022	1342 1343	New Shoreham	B	14	75.6	847	14	74.6	827
3023	1372 1373	North Kingstown	C	177	72.1	1,024	159	72.4	1,019
3024	1382 1383	North Providence		154	74.7	633	155	74.4	625
3025	1392 1393	North Smithfield	B	66	75.5	832	66	74.9	808
3026	1412 1413	Pawtucket	C	484	73.1	1,065	478	73.0	989
3027	1515	Union Fire District		---	---	---	---	---	---
3029	1452	Richmond		9	74.0	613	8	74.1	505
3030	1462 1463	Scituate	B	55	74.4	954	55	74.4	895
3031	1472 1473	Smithfield	C	81	76.3	668	81	75.4	657
3032	1492 1493	South Kingstown	B	133	72.0	1,125	120	72.3	980
3033	1532 1533	Tiverton	C	55	75.8	722	55	75.7	694
3034	1562	Warren	C	50	78.6	831	51	77.9	811
3036	1622 1623	Westerly		8	81.2	1,132	8	80.2	1,132
3037	1602	West Greenwich	C	10	67.4	1,090	7	68.8	892
3039	1632 1633	Woonsocket	B	322	74.4	905	303	74.9	805
3040	1073	Chariho School District	C	42	67.7	1,090	40	66.7	1,045
3041	1203	Foster/Glocester	B	29	70.7	966	29	71.0	945
3042	1528	Tiogue Fire & Lighting	C,5	---	---	---	---	---	---
3043	1336	Narragansett Housing	C	1	73.8	437	1	72.8	437
3045	1098	Coventry Lighting District	C	1	83.3	5582.5	1	82.3	5428.9
3046	1242	Hope Valley Fire	C	---	---	---	---	---	---
3050	1156	East Greenwich Housing	C	1	66.8	4020.1	---	---	---
3051	1116	Cranston Housing	C	9	76.8	721	9	75.8	710
3052	1166	East Providence Housing	B	10	74.4	1,190	7	75.9	791
3053	1416	Pawtucket Housing	B	24	73.8	1,116	23	73.0	1,184
3056	1126	Cumberland Housing	C	5	72.2	1,183	4	73.7	843

Retired Member Statistics

Old Unit Number (1)	New Unit Number (2)	Unit (3)	Code(s) (4)	Retirees and Beneficiaries As of June 30, 2009			Retirees and Beneficiaries As of June 30, 2008		
				Number (5)	Average Age (6)	Average Monthly Benefit (7)	Number (8)	Average Age (9)	Average Monthly Benefit (10)
3057	1306	Lincoln Housing	B	7	76.5	1,162	6	77.9	1,200
3059	1016	Bristol Housing		5	75.1	1,069	5	74.1	1,069
3065	1036	Burrillville Housing	B	2	66.1	2,189	1	67.0	1,290
3066	1386	North Providence Housing	B	5	72.0	1,540	5	71.0	1,503
3067	1177	East Smithfield Water	C	3	69.2	923	3	68.2	899
3068	1227	Greenville Water	B	1	63.3	2,759	1	62.3	2,687
3069	1356	Newport Housing	C	25	65.5	1,828	24	64.9	1,735
3071	1566	Warren Housing	B	3	69.6	1,557	3	68.6	1,518
3072	1286	Johnston Housing		4	80.5	704	3	85.5	560
3077	1538	Tiverton Local 2670A	C	13	69.3	932	13	68.3	907
3078	1002 1003 1004	Barrington COLA	C	111	75.5	919	109	75.4	874
3079	1096	Coventry Housing		7	77.4	484	7	76.4	484
3080	1496	South Kingstown Housing	C	---	---	---	---	---	---
3081	1403	N. RI Collaborative Adm. Services	C	5	60.0	1,421	5	59.0	1,384
3083	1616	West Warwick Housing	B	3	79.1	922	3	78.1	900
3084	1476	Smithfield Housing		---	---	---	---	---	---
3094	1478	Smithfield COLA	C	24	65.2	1,791	18	66.3	1,659
3096	1056	Central Falls Housing	C	8	71.4	1,046	9	70.8	987
3098	1293	Lime Rock Administrative Services		---	---	---	---	---	---
3099	1063	Central Falls Schools	C	42	67.1	927	37	66.8	869
3100	1023	Bristol/Warren Schools	B	78	68.5	1,061	75	67.9	993
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	24	62.6	2,062	19	62.7	2,209
3102	1712	Harrisville Fire District (ADMIN)	C	---	---	---	---	---	---
3103	1702	Albion Fire District (ADMIN)	C	---	---	---	---	---	---
All General Employee Units				3,894	73.1	\$1,050	3,730	73.1	\$988
Police and Fire Units									
4016	1285	Johnston Fire	D	1	46.2	\$2,557	1	45.2	\$2,557
4029	1454	Richmond Police	6	1	48.8	2,199	1	47.8	2,199
4031	1474	Smithfield Police	C,D	1	81.5	238	1	80.5	238
4042	1555	Valley Falls Fire	D	6	58.6	2,322	5	62.1	2,006
4047	1395 1435	North Smithfield Voluntary Fire	B,D	7	60.4	2,277	7	59.4	2,221
4050	1155	East Greenwich Fire	C,D	22	61.3	2,238	19	62.7	2,080
4054	1154	East Greenwich Police	C,D	18	60.7	2,507	17	60.7	2,419
4055	1375	North Kingstown Fire	C,D	54	65.8	2,064	50	65.7	1,951
4056	1374	North Kingstown Police	C,D	29	55.2	2,705	24	55.6	2,845
4058	1385	North Providence Fire	D	53	55.3	2,369	45	55.2	2,295
4059	1008	Barrington Fire (25)	C	1	63.0	4,117	1	62.0	4,012
4060	1004	Barrington Police	C,D	26	65.3	1,900	26	64.3	1,873
4061	1005	Barrington Fire (20)	C,D	30	67.6	1,554	30	67.9	1,530
4062	1564 1565	Warren Police & Fire	C,D	24	66.0	1,835	25	65.7	1,755
4063	1494	South Kingstown Police	B,I	41	61.5	2,493	38	61.3	2,441
4073	1464	Scituate Police	5	1	78.6	301	1	79.0	497
4076	1394	North Smithfield Police	C,D	14	62.0	2,305	12	64.0	2,226

Retired Member Statistics

Old Unit Number (1)	New Unit Number (2)	Unit (3)	Code(s) (4)	Retirees and Beneficiaries As of June 30, 2009			Retirees and Beneficiaries As of June 30, 2008		
				Number	Average Age	Average Monthly Benefit	Number	Average Age	Average Monthly Benefit
				(5)	(6)	(7)	(8)	(9)	(10)
4077	1534	Tiverton Fire	C,D	16	62.6	1,701	18	63.4	1,640
4082	1194	Foster Police	C,D	6	60.0	1,973	6	59.0	1,930
4085	1634	Woonsocket Police	C,D	45	46.9	2,719	31	45.7	2,740
4086	1084	Charlestown Police	C,D	11	54.1	2,664	10	52.4	2,519
4087	1264	Hopkinton Police	C,D,6	6	55.0	2,747	3	62.3	2,049
4088	1214	Glocester Police	C,D	9	58.4	1,418	9	57.4	1,383
4089	1604	West Greenwich Police/Rescue	C,D	5	57.7	2,156	5	56.7	2,115
4090	1034	Burrillville Police	C,D,6	7	64.3	2,201	7	63.3	2,163
4091	1148	Cumberland Rescue	C,D	3	49.1	1,440	3	48.1	1,404
4093	1635	Woonsocket Fire	C,D	6	41.3	2,460	5	38.9	2,410
4094	1015	Bristol Fire	D	1	59.9	1,019	1	58.9	1,019
4095	1135	Cumberland Hill Fire	C,D	8	54.2	2,434	7	53.5	2,016
4096	1014	Bristol Police	C,D	---	---	---	---	---	---
4098	1095	Coventry Fire	D	5	53.4	1,976	4	51.2	1,907
4099	1505	South Kingstown EMT	C,D	---	---	---	---	---	---
4101	1365	North Cumberland	C,D	5	53.4	1,987	3	52.2	2,135
4102	1045 1235 15	Central Coventry Fire	C,D	9	55.5	2,149	8	55.9	2,105
4103	1255	Hopkins Hill Fire	C,D	1	41.6	984	---	---	---
4104	1114	Cranston Police	C,D,4	6	47.5	3,667	6	46.5	3,560
4105	1115	Cranston Fire	C,D,4	3	46.7	3,077	2	45.9	3,212
4106	1125	Cumberland Fire	B,D	6	59.4	2,413	6	58.4	2,352
4107	1305	Lincoln Rescue	C	5	51.7	1,874	4	48.9	2,146
4108	1344	New Shoreham Police	B,D	2	48.2	2,984	2	47.2	2,904
4109	1324	Middletown Police & Fire	C,D	---	---	---	---	---	---
4110	1715	Harrisville Fire District	C,D	---	---	---	---	---	---
4111	1705	Albion Fire District	C	1	67.1	1,763	1	66.1	1,717
All Police & Fire Units				495	58.9	\$2,247	444	59.3	\$2,159
All MERS Units				4,389	71.5	\$1,185	4,174	71.7	\$1,112

B - Municipality has adopted COLA Plan B

C - Municipality has adopted COLA Plan C

1 - S.Kingstown Police have a unique plan that provides 2.0% of salary for service prior to July 1, 1993, and 2.5% of salary for service on or after July 1, 1993.

2 - New unit in 2009 valuation.

4 - Cranston Fire and Police are contributing 10% due to special plan provision.

6 - Special plan provisions apply to this unit.

D - Municipality has adopted the "20-year" optional Police & Fire Plan

3 - Closed unit.

5 - This unit has no active members.

**Distribution of Active Members by Age and by Years of Service (General Employees)
 As of 06/30/2009**

Attained Age	Years of Credited Service												Total Count & Avg. Comp.
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35 & Over	
	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	
Under 25	6 \$26,256	7 \$29,031	8 \$31,626	4 \$25,980	2 \$33,833	1 \$32,889	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	28 \$29,222
25-29	8 \$29,562	18 \$35,835	17 \$32,351	26 \$31,082	14 \$32,021	33 \$35,384	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	116 \$33,238
30-34	11 \$30,866	24 \$25,485	19 \$32,440	18 \$34,821	18 \$38,816	86 \$38,967	19 \$41,158	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	195 \$36,032
35-39	19 \$38,956	22 \$35,848	24 \$33,878	30 \$33,218	20 \$40,438	127 \$36,253	61 \$38,961	23 \$38,012	1 \$44,207	0 \$0	0 \$0	0 \$0	327 \$36,839
40-44	21 \$30,118	31 \$29,868	36 \$26,235	45 \$33,599	37 \$34,410	241 \$36,494	102 \$40,059	104 \$44,796	53 \$45,822	0 \$0	0 \$0	0 \$0	670 \$37,696
45-49	25 \$32,990	30 \$30,927	45 \$25,658	55 \$28,747	44 \$30,923	386 \$31,790	231 \$37,236	119 \$41,065	101 \$44,597	28 \$45,350	1 \$45,155	0 \$0	1,065 \$35,143
50-54	170 \$29,526	106 \$27,576	149 \$27,690	119 \$29,873	122 \$31,576	607 \$30,598	301 \$35,163	195 \$38,748	118 \$42,229	64 \$48,108	22 \$47,609	1 \$33,086	1,974 \$33,095
55-59	20 \$32,781	25 \$37,371	37 \$34,552	29 \$29,866	19 \$37,686	239 \$32,637	267 \$33,615	256 \$35,884	141 \$40,586	75 \$45,501	37 \$59,020	17 \$44,758	1,162 \$36,568
60-64	6 \$42,614	7 \$22,356	14 \$34,940	18 \$27,527	17 \$36,582	142 \$34,835	131 \$34,719	137 \$33,770	127 \$38,271	56 \$42,404	20 \$61,074	14 \$57,336	689 \$36,864
65-69	4 \$27,352	6 \$19,209	3 \$23,180	7 \$28,910	5 \$48,327	65 \$31,120	69 \$33,203	62 \$34,299	53 \$38,199	21 \$36,479	19 \$43,291	14 \$39,678	328 \$34,595
70 & Over	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0
Total	290 \$30,935	276 \$29,824	352 \$29,245	351 \$30,619	298 \$33,856	1,927 \$32,986	1,181 \$35,770	896 \$37,852	594 \$41,360	244 \$44,680	99 \$53,740	46 \$46,786	6,554 \$35,246

**Distribution of Active Members by Age and by Years of Service (Police & Fire)
 As of 06/30/2009**

Attained Age	Years of Credited Service												Total Count & Avg. Comp.
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35 & Over	
	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	Count & Avg. Comp.	
Under 25	10 \$45,424	8 \$40,739	3 \$41,557	6 \$48,307	1 \$76,635	1 \$49,765	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	29 \$45,554
25-29	15 \$42,970	16 \$39,090	19 \$45,151	27 \$49,605	16 \$50,154	32 \$51,814	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	125 \$47,422
30-34	9 \$43,764	11 \$38,901	14 \$45,750	12 \$47,484	12 \$49,871	118 \$53,268	17 \$56,405	1 \$58,058	0 \$0	0 \$0	0 \$0	0 \$0	194 \$51,202
35-39	2 \$41,946	8 \$41,108	8 \$45,239	11 \$49,047	10 \$46,809	84 \$53,265	110 \$57,588	29 \$58,063	0 \$0	0 \$0	0 \$0	0 \$0	262 \$54,485
40-44	35 \$37,012	18 \$38,880	26 \$45,442	29 \$49,635	24 \$50,055	87 \$54,023	63 \$55,598	104 \$59,199	53 \$63,197	0 \$0	0 \$0	0 \$0	439 \$53,591
45-49	1 \$29,950	1 \$41,063	1 \$56,685	3 \$49,032	0 \$0	22 \$53,431	32 \$54,660	68 \$59,539	74 \$62,107	14 \$66,657	1 \$77,776	0 \$0	217 \$59,239
50-54	0 \$0	0 \$0	0 \$0	1 \$39,871	0 \$0	8 \$53,056	3 \$54,128	28 \$55,980	26 \$61,883	18 \$61,471	6 \$58,777	0 \$0	90 \$58,469
55-59	2 \$58,134	0 \$0	0 \$0	0 \$0	0 \$0	3 \$43,446	3 \$66,711	7 \$60,956	3 \$53,456	4 \$56,784	4 \$63,131	1 \$72,333	27 \$58,733
60-64	0 \$0	0 \$0	1 \$87,520	0 \$0	0 \$0	2 \$59,234	0 \$0	3 \$43,936	2 \$55,144	2 \$61,202	1 \$63,362	2 \$59,203	13 \$57,866
65-69	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	2 \$74,825	0 \$0	0 \$0	2 \$74,825
70 & Over	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0
Total	74 \$40,786	62 \$39,501	72 \$45,981	89 \$49,044	63 \$49,952	357 \$53,267	228 \$56,613	240 \$58,638	158 \$62,183	40 \$63,472	12 \$62,194	3 \$0	1,398 \$54,069

Membership Data (General Employee Units)

	<u>June 30, 2009</u>	<u>June 30, 2008</u>
	(1)	(2)
1. Active members		
a. Number	6,554	6,797
b. Number vested	3,060	3,016
c. Total payroll supplied by ERSRI	\$230,999,416	\$231,839,725
d. Average salary	\$35,246	\$34,109
e. Average age	50.9	50.3
f. Average service	11.2	10.9
2. Inactive members		
a. Number	2,318	2,205
3. Service retirees		
a. Number	3,287	3,133
b. Total annual benefits	\$43,148,379	\$38,596,080
c. Average annual benefit	\$13,127	\$12,319
d. Average age	73.7	73.8
4. Disabled retirees		
a. Number	263	259
b. Total annual benefits	\$3,251,564	\$3,111,800
c. Average annual benefit	\$12,363	\$12,015
d. Average age	63.1	63.0
5. Beneficiaries and spouses		
a. Number	344	338
b. Total annual benefits	\$2,649,938	\$2,501,725
c. Average annual benefit	\$7,703	\$7,402
d. Average age	75.2	74.9

Membership Data (Police & Fire Units)

	<u>June 30, 2009</u>	<u>June 30, 2008</u>
	(1)	(2)
1. Active members		
a. Number	1,398	1,383
b. Number vested	681	685
c. Total payroll supplied by ERSRI	\$75,588,025	\$72,943,546
d. Average salary	\$54,069	\$52,743
e. Average age	39.8	39.1
f. Average service	11.1	11.1
2. Inactive members		
a. Number	112	108
3. Service retirees		
a. Number	357	319
b. Total annual benefits	\$9,922,956	\$8,421,307
c. Average annual benefit	\$27,795	\$26,399
d. Average age	60.6	61.5
4. Disabled retirees		
a. Number	103	101
b. Total annual benefits	\$2,967,362	\$2,782,893
c. Average annual benefit	\$28,809	\$27,553
d. Average age	52.7	52.5
5. Beneficiaries and spouses		
a. Number	35	24
b. Total annual benefits	\$457,798	\$294,329
c. Average annual benefit	\$13,080	\$12,264
d. Average age	59.6	59.7

Membership Data (All MERS Units)

	<u>June 30, 2009</u>	<u>June 30, 2008</u>
	(1)	(2)
1. Active members		
a. Number	7,952	8,180
b. Number vested	3,741	3,701
c. Total payroll supplied by ERSRI	\$306,587,441	\$304,783,271
d. Average salary	\$38,555	\$37,260
e. Average age	48.9	48.4
f. Average service	11.2	10.9
2. Inactive members		
a. Number	2,430	2,313
3. Service retirees		
a. Number	3,644	3,452
b. Total annual benefits	\$53,071,335	\$47,017,387
c. Average annual benefit	\$14,564	\$13,620
d. Average age	72.4	72.7
4. Disabled retirees		
a. Number	366	360
b. Total annual benefits	\$6,218,926	\$5,894,693
c. Average annual benefit	\$16,992	\$16,374
d. Average age	60.2	60.1
5. Beneficiaries and spouses		
a. Number	379	362
b. Total annual benefits	\$3,107,736	\$2,796,054
c. Average annual benefit	\$8,200	\$7,724
d. Average age	73.7	73.9

Summary of Assumptions and Methods

I. Valuation Date

The valuation date is June 30th of each plan year. This is the date as of which the actuarial present value of future benefits and the actuarial value of assets are determined.

II. Actuarial Cost Method

The actuarial valuation uses the Entry Age actuarial cost method. Under this method, the employer contribution rate is the sum of (i) the employer normal cost rate, and (ii) a rate that will amortize the unfunded actuarial accrued liability (UAAL).

The employer normal cost rate is the total normal cost rate, less the member contribution rate. The total normal cost rate is the level percentage-of-pay contribution which would theoretically pay for all benefits if it had been made each year from the inception of the plan and if there had never been any changes of benefits, any changes of assumptions or methods, or any experience gains or losses. The normal costs are determined on an individual basis.

The actuarial accrued liability is the difference between the actuarial present value of all future benefits and the actuarial present value of future normal costs. It is the amount to which the normal costs would have accumulated under the assumptions described in the preceding paragraph. The unfunded actuarial accrued liability (UAAL) is the difference between the actuarial accrued liability and the actuarial value of assets.

The amortization contribution rate is the level percentage of payroll required to reduce the UAAL to zero over the remaining amortization period. The UAAL is being amortized over the remainder of a closed 30-year period from June 30, 1999. The employer contribution rate determined by this valuation will not be effective until two years after the valuation date. The determination of the contribution rate reflects this deferral. The unfunded actuarial accrued liability (UAAL) and covered payroll are projected forward for two years, and we then determine the amortization charge required to amortize the UAAL over the remaining amortization period from that point. In projecting the UAAL, we increase the UAAL for interest at the assumed rate and we decrease it for the amortization payments. The amortization payments for these two years are determined by subtracting the current employer normal cost from the known contribution rates for these years, based on the two prior actuarial valuations. Contributions are assumed to be made monthly throughout the year.

III. Actuarial Value of Assets

The actuarial value of assets is based on the market value of assets with a five-year phase-in of actual investment return in excess of (less than) expected investment income. Expected investment income is determined using the assumed investment return rate and the market value of assets (adjusted for receipts and disbursements during the year). The returns are computed net of administrative and investment expenses. The actuarial value is calculated in the aggregate for all units combined, and then it is allocated to each unit in ratio to that unit's market value.

IV. Actuarial Assumptions

A. Economic Assumptions

1. Investment return: 8.25% per year, compounded annually, composed of an assumed 3.00% inflation rate and a 5.25% net real rate of return. This rate represents the assumed return, net of all investment and administrative expenses.
2. Salary increase rate: For general employees, the sum of (i) a 4.50% wage inflation assumption (composed of a 3.00% price inflation assumption and a 1.50% additional general increase), and (ii) a service-related component as shown below:

General Employees		
Years of Service	Service-Related Component	Total Increase
0	4.00%	8.50%
1	3.50	8.00
2	3.00	7.50
3	2.75	7.25
4	2.50	7.00
5	2.25	6.75
6	1.50	6.00
7	1.00	5.50
8	0.75	5.25
9	0.50	5.00
10 or more	0.00	4.50

For police/fire employees, the sum of (i) a 4.75% wage inflation assumption (composed of a 3.00% price inflation assumption and a 1.75% additional general increase), and (ii) a service-related component as shown below:

Police/Fire Employees		
Years of Service	Service-Related Component	Total Increase
0	10.00%	14.75%
1	8.50	13.25
2	5.00	9.75
3	2.00	6.75
4	1.75	6.50
5	1.50	6.25
6	0.50	5.25
7	0.25	5.00
8	0.25	5.00
9	0.25	5.00
10 or more	0.00	4.75

Salary increases are assumed to occur once a year, on July 1. Therefore the pay used for the period year following the valuation date is equal to the reported pay for the prior year, increased by the salary increase assumption. For employees with less than one year of service, the reported rate of pay is used rather than the fiscal year salary paid.

3. Payroll growth rate: In the amortization of the unfunded actuarial accrued liability, payroll is assumed to increase 4.25% per year. This increase rate is solely due to the effect of wage inflation on salaries, with no allowance for future membership growth.

B. Demographic Assumptions

1. Post-retirement mortality rates:

- a. Male employees: Based on the 1994 Group Annuity Mortality Tables for males set forward one year.
- b. Female employees: Based on the 1994 Group Annuity Mortality Tables for females.
- c. Disabled males – 65% of the PBGC Table Va for disabled males eligible for Social Security disability benefits
- d. Disabled females – 100% of the PBGC Table VIa for disabled females eligible for Social Security disability benefits.

Sample rates are shown below:

Number of Deaths per 100				
Age	Healthy Males	Healthy Females	Disabled Males	Disabled Females
50	0.29	0.14	2.49	2.57
55	0.49	0.23	3.13	2.95
60	0.90	0.44	3.92	3.31
65	1.62	0.86	4.41	3.70
70	2.60	1.37	4.80	4.11
75	4.09	2.27	5.47	4.92
80	6.86	3.94	7.33	7.46

2. Pre-retirement mortality (combined ordinary and duty): 65% multiplier of the post-retirement mortality. Sample rates are shown below:

Number of Deaths per 100		
Age	Males	Females
25	0.05	0.02
30	0.05	0.02
35	0.06	0.03
40	0.08	0.05
45	0.11	0.06
50	0.19	0.09
55	0.32	0.15
60	0.58	0.29
65	1.06	0.56

3. Disability rates: Sample rates per 1,000 active members are shown below. Ordinary disability rates are not applied to members eligible for retirement.

Age	Number of Disabilities per 1,000					
	General Employees, Ordinary, Males	General Employees, Accidental, Males	General Employees, Ordinary, Females	General Employees, Accidental, Females	Police & Fire, Ordinary, Males and Females	Police & Fire, Accidental, Males and Females
25	0.63	0.23	0.27	0.09	0.43	2.98
30	0.77	0.28	0.33	0.11	0.55	3.85
35	1.05	0.38	0.45	0.15	0.73	5.08
40	1.54	0.55	0.66	0.22	1.10	7.70
45	2.52	0.90	1.08	0.36	1.80	12.60
50	4.27	1.53	1.83	0.61	3.03	21.18
55	7.07	2.53	3.03	1.01	3.03	21.18
60	9.87	3.53	4.23	1.41	3.03	21.18
65	0.00	0.00	0.00	0.00	3.03	21.18

4. Termination rates (for causes other than death, disability, or retirement) are a function of the member's service. Termination rates are not applied to members eligible for retirement. Rates are shown below:

Service	Male General Employees	Female General Employees	Police & Fire, Males & Females
0	0.1750	0.1800	0.1000
1	0.0959	0.1069	0.0528
2	0.0825	0.0906	0.0481
3	0.0713	0.0769	0.0436
4	0.0618	0.0653	0.0394
5	0.0541	0.0558	0.0354
6	0.0480	0.0481	0.0316
7	0.0431	0.0420	0.0281
8	0.0395	0.0374	0.0249
9	0.0368	0.0341	0.0219
10	0.0350	0.0318	0.0191
11	0.0338	0.0304	0.0166
12	0.0330	0.0297	0.0143
13	0.0326	0.0295	0.0123
14	0.0323	0.0295	0.0105
15	0.0319	0.0297	0.0090
16	0.0312	0.0297	0.0077
17	0.0302	0.0295	0.0067
18	0.0285	0.0287	0.0059
19	0.0261	0.0273	0.0000
20	0.0227	0.0250	0.0000
21	0.0182	0.0217	0.0000
22	0.0124	0.0170	0.0000
23	0.0052	0.0110	0.0000
24	0.0052	0.0032	0.0000

5. Retirement Rates: Separate male and female rates for general employees. For members who reach 30 years of service before age 58, service-based rates are used. For other members, age-based rates are used.

General Employees							
Males				Females			
Service (00/30)		Age (58/10)		Service (00/30)		Age (58/10)	
Service	Ret. Rate	Age	Ret. Rate	Service	Ret. Rate	Age	Ret. Rate
30	30.0%	58	15.0%	30	20.0%	58	15.0%
31	25.0%	59	10.0%	31	15.0%	59	10.0%
32	15.0%	60	10.0%	32	7.5%	60	10.0%
33	15.0%	61	10.0%	33	7.5%	61	10.0%
34	15.0%	62	30.0%	34	7.5%	62	20.0%
35	25.0%	63	25.0%	35	15.0%	63	15.0%
36	25.0%	64	25.0%	36	20.0%	64	15.0%
37	25.0%	65	25.0%	37	20.0%	65	20.0%
38	25.0%	66	30.0%	38	15.0%	66	20.0%
39	25.0%	67	30.0%	39	15.0%	67	20.0%
40	100.0%	68	30.0%	40	100.0%	68	20.0%
		69	30.0%			69	20.0%
		70	20.0%			70	20.0%
		71	20.0%			71	20.0%
		72	20.0%			72	20.0%
		73	20.0%			73	20.0%
		74	20.0%			74	20.0%
		75	100.0%			75	100.0%

5. Retirement Rates (continued): Unisex, service based rates are used for police and fire. Rates depend on whether the unit has elected the optional 20-year retirement provisions. All members are assumed to retire upon reaching age 65 with at least ten years of service.

Police and Fire		
Service	Units with the Optional 20-year retirement election*	Units without the Optional 20-year retirement election
20	15.0%	
21	10.0%	
22	5.0%	
23	5.0%	
24	10.0%	
25	12.0%	50.0%
26	12.0%	12.0%
27	14.0%	14.0%
28	16.0%	16.0%
29	18.0%	18.0%
30+	35.0%	35.0%

* These rates were used for Richmond Police for service from 22 to 32 years.

C. Other Assumptions

1. Percent married: 85% of employees are assumed to be married.
2. Age difference: Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses.
3. Percent electing annuity on death (when eligible): All of the spouses of vested, married participants are assumed to elect an annuity.
4. Percent electing deferred termination benefit: Vested terminating members are assumed to elect a refund or a deferred benefit, whichever is more valuable at the time of termination.
5. Recovery from disability: None assumed.
6. Remarriage: It is assumed that no surviving spouse will remarry and there will be no children's benefit.
7. Assumed age for commencement of deferred benefits: Members electing to receive a deferred benefit are assumed to commence receipt at the first age at which unreduced benefits are available.
8. Investment and administrative expenses: The assumed investment return rate represents the anticipated net return after payment of all investment and administrative expenses.
9. Inactive members: Liabilities for inactive members are approximated as a multiple of their member contribution account balances. For nonvested inactive members, the multiple is 1.0. For vested inactive members, the multiple is 8.0 for members with 25 or more years of service, 3.0 for vested inactive members age 45 or older with less than 25 years of service, and 1.0 for other vested inactive members younger than age 45.
10. Decrement timing: For all members, decrements are assumed to occur at the middle of the year.

V. Participant Data

Participant data was supplied on electronic files. There were separate files for (i) active and inactive members, and (ii) members and beneficiaries receiving benefits.

The data for an active members included birthdate, sex, service, salary and employee contribution account balance. For retired members and beneficiaries, the data included date of birth, sex, spouse's date of birth (where applicable), amount of monthly benefit, date of retirement, and a form of payment code.

Salary supplied for the current year was based on the earnings for the year preceding the valuation date. This salary was adjusted by the salary increase rate for one year. However, for members with less than one year of service, the current rate of salary was used. This salary was adjusted by the salary increase rate for one year.

Assumptions were made to correct for missing, bad, or inconsistent data. These had no material impact on the results presented.

Summary of Benefit Provisions

1. Authority: The Municipal Employees' Retirement System (MERS) covers employees of certain participating Rhode Island municipalities and other local governmental units, such as housing authorities, water districts, etc. Benefits are described in Rhode Island General Laws, Title 45, Chapters 19, 19.1, 21, 21.1, 21.2, and 21.3.
2. Plan Year: A twelve-month period ending June 30th.
3. Administration: MERS is administered by the State of Rhode Island Retirement Board. However, the State Treasurer is responsible for the investment of the trust assets, including the establishment of the asset allocation policy.
4. Type of Plan: MERS is a qualified governmental defined benefit retirement plan. Separate contribution rates are determined for each participating governmental unit. For Governmental Accounting Standards Board purposes, it is an agent multiple-employer plan.
5. Eligibility: General employees, police officers and firefighters employed by electing municipalities participate in MERS. Teachers and administrators are covered by the separate Employees' Retirement System of Rhode Island, but other school employees may be covered by MERS. Eligible employees become members at their date of employment. Anyone employed by a municipality at the time the municipality joins MERS may elect not to be covered. Elected officials may opt to be covered by MERS. Employees covered under another plan maintained by the municipality may not become members of MERS. Police officers and/or firefighters may be classified as such by the municipality, in which case the special contribution and benefit provisions described below will apply to them, or they may be classified as general employees with no special benefits. Members designated as police officers and/or firefighters are treated as belonging to a separate unit from the general employees, with separate contribution rates applicable.

6. Employee Contributions: General employees contribute 6.00% of their salary per year, and police officers and firefighters contribute 7.00%. In addition, if the municipality has elected one of the optional cost-of-living provisions, an additional member contribution of 1.00% of salary is required. If a municipality elects the optional 20-year retirement provision for its police officers and/or its firefighters, an additional contribution of 1.00% of salary will be required from these members. The municipality, at its election, may choose to “pick up” the members’ contributions for its employees under the provisions of Internal Revenue Code (IRC) Section 414(h).
7. Salary: Salary includes the member's base earnings plus any payments under a regular longevity or incentive plan. Salary excludes overtime, unused sick and vacation leave, severance pay, and other extraordinary compensation. Certain amounts that are excluded from taxable wages, such as amounts sheltered under a Section 125 plan or amounts picked up by the employer under IRC Section 414(h), are not excluded from salary.
8. Employer Contributions: Each participating unit’s contribution rate is determined actuarially. Contributions determined in a given actuarial valuation go into effect two years after the actuarial valuation.
9. Service: Employees receive credit for service while a member. In addition, a member may purchase credit for certain periods by making an additional contribution to purchase the additional service. Special rules and limits govern the purchase of additional service and the contribution required.
10. Final Average Compensation (FAC): The average of the member's highest three consecutive annual salaries. Monthly benefits are based on one-twelfth of this amount.

11. Retirement

- a. **Eligibility:** General employees are eligible for retirement on or after age 58 if they have credit for 10 or more years of service, or at any age if they have credit for at least 30 years of service. Members designated as police officers or firefighters may retire at or after age 55 with credit for at least 10 years of service, or at any age with credit for 25 or more years of service. Members may retire and receive a reduced benefit if they are at least age 50 and have at least 20 years of service. If the municipality elects to adopt the 20-year retirement provisions for police officers and/or firefighters, then such a member may retire at any age with 20 or more years of service.
- b. **Monthly Benefit:** 2.00% of the member's monthly FAC for each year of service, up to 37.5 years (75% of FAC maximum). If the optional 20-year retirement provisions are adopted by the municipality and the member has attained 20 years of service, the benefit is 2.50% of the member's monthly FAC for each year of service, up to 30 years (75% of FAC maximum). If a police officer or firefighter not covered by the 20-year retirement provision retires before age 55 with at least 20, but less than 25, years of service, benefits are reduced 0.5% per month that the member's age at retirement is less than 55.
- c. **Payment Form:** Benefits are paid as a monthly life annuity. Optional forms of payment are available; see below.
- d. **Death benefit:** After retirement, death benefits are based on the form of annuity elected. If no option is elected, i.e., if payments are made as a life annuity, there is a minimum death benefit equal to the sum of the member's contributions without interest, less the sum of the monthly benefit payments made before the member's death. In addition, a lump-sum death benefit is payable upon the death of any retired member, regardless of option elected. This lump sum is equal to a percentage of the lump-sum death benefit that was available to the member at the time of retirement. The percentage is 100% in the first year of retirement, 75% in the second year, 50% in the third year, and 25% in the fourth and subsequent years of retirement. However, in no event will the lump sum death benefit be less than \$4,000.

12. Disability Retirement

- a. Eligibility: A member is eligible provided he/she has credit for at least five years of service or if the disability is work-related. Members are not eligible for an ordinary disability benefit if they are eligible for unreduced retirement.
- b. Ordinary Disability Benefit: The benefit payable under the retirement formula, using FAC and service at the time of disability, but not less than 10 years of service.
- c. Occupational Disability Benefit: An annual annuity equal to two-thirds of salary at the time of disability.
- d. Payment Form: The disability benefit commences immediately upon the member's retirement. Benefits cease upon recovery or reemployment. Disability benefits are payable as a monthly life annuity with a guarantee that, at the member's death, the sum of the member's contributions plus interest as of the date of retirement will be paid in a lump-sum to the member's beneficiary. All alternative forms of payment except for the Social Security Option are permitted in the case of disability retirement.

13. Deferred Termination Benefit

- a. Eligibility: A member with at least ten years of service is vested. A vested member who does not withdraw his/her contributions from the fund is eligible for a deferred termination benefit.
- b. Monthly Benefit: The monthly benefit is based on the retirement formula described above. Both FAC and service are determined at the time the member leaves active employment. Benefits may commence at age 58 or at such earlier age that the member has met the requirements for a retirement benefit.
- c. Payment Form: The same as for Retirement above.
- d. Death Benefit before Retirement: A member who dies after leaving active service but before retiring is entitled to receive a benefit as described below in Item 15.
- e. Death Benefit after Retirement: The same as for Retirement above.

14. Withdrawal (Refund) Benefit

- a. Eligibility: All members leaving covered employment with less than ten years of service are eligible. Optionally, vested members (those with ten or more years of service) may withdraw their accumulated contributions in lieu of the deferred benefits otherwise due.
- b. Benefit: The member who withdraws receives a lump-sum payment of equal to the sum of his/her employee contributions. No interest is credited on these contributions.

15. Death Benefit of Active or Inactive Members

- a. Eligibility: Death must have occurred while an active member or while an inactive, non-retired member. The basic benefit plus the lump-sum benefit are paid on behalf of an active, general employee, and the special police/fire benefit and the lump-sum benefit are paid on behalf of an active police officer or firefighter. If the death was due to accidental, duty-related causes, the accidental death benefit is paid regardless of whether the employee is a general employee, a police officer, or a firefighter. Inactive members receive a refund of their accumulated contributions without interest.
- b. Basic Benefit: Upon the death of a non-vested member, or upon the death of a vested, inactive member, or upon the death of an active, unmarried member, a refund of the member's contributions (without interest) is paid. Upon the death of a vested, married, active member, the spouse may elect (i) the refund benefit described above, or (ii) a life annuity paid to the spouse or beneficiary. The amount of the annuity is equal to the amount which would have been paid had the member retired at the time of his death and elected the Joint and 100% Survivor option. If the member was not eligible for retirement, the annuity benefit is reduced 6% per year from the date at which the member would have been eligible had he or she remained in service.
- c. Lump-sum Benefit: \$800 per year of service, with a maximum benefit of \$16,000 and a minimum of \$4,000.
- d. Special Police/Fire Death Benefit: In lieu of the basic benefit above, if a police officer or firefighter dies while an active member, an annuity of 30% of the member's salary will be paid to the member's spouse, for life or until remarriage. Children's benefits may also be payable.

- e. **Special Police/Fire Death Benefit:** In lieu of the basic benefit above, if a police officer or firefighter dies while an active member, an annuity of 30% of the member's salary will be paid to the member's spouse, for life or until remarriage. Children's benefits may also be payable.
 - f. **Accidental Duty-related Death Benefit:** If a member dies as the result of an accident while in the course of his or her duties, in lieu of the above benefits the member's spouse may elect to receive (i) a refund of all contributions made (including interest), and (ii) an annual life annuity equal to 50% of the member's salary at the time of death. The annuity benefit stops when the spouse remarries or dies, although it may be continued to any children under age 18 or to any dependent parents.
16. **Optional Forms of Payment:** In addition to a life annuity, MERS offers members these optional forms of payment on an actuarially equivalent basis:
- a. **Option 1 (Joint and 100% Survivor)** - A life annuity payable while either the participant or his beneficiary is alive.
 - b. **Option 2 (Joint and 50% Survivor)** - A life annuity payable to the member while both the member and beneficiary are alive, reducing to 50% of this amount if the member predeceases the beneficiary.
 - c. **Social Security Option** – An annuity paid at one amount prior to age 62, and at a reduced amount after age 62, designed to provide a level total income when combined with the member's age 62 Social Security benefit. Benefits cease upon the member's death.

Actuarial equivalence is based on tables adopted by the Employees' Retirement Board.

17. **Post-retirement Benefit Increase:** Members employed by municipalities who elect one of the optional COLA provisions receive an increase equal to 3% of the original retirement benefit each year, beginning January 1 following the member's retirement. This increase is not tied in any way to actual increases in the cost of living, and increases are not compounded. When a municipality elects coverage, it may elect either COLA C (covering only current and future active members and excluding members already retired) or COLA B (covering current retired members as well as current and future active members).

18. Special Provisions Applying to Specific Units: Some units have specific provisions that apply only to that unit. The following summarizes those provisions:

- a. Rhode Island General Law §45-21.2-22.1 contains special provisions that apply to employees of Burrillville Police, but only if adopted by the Town of Burrillville. The Town adopted these provisions effective July 1, 2006. Under these special provisions, the retirement benefit for a member with 20 or more years of service is improved. The new formula is 60.00% x Final Average Compensation (FAC), plus 1.50% x FAC x Years of Service in Excess of 20, with a maximum benefit equal to 75% of FAC. In addition to this benefit change, the member contribution rate increased from 9.00% to 10.20%.
- b. Rhode Island General Law § 45-21.2-6.1, § 45-21.2-5(5), and § 45-21.2-14(d) contain special provisions that apply to members of the South Kingstown police department. Under these special provisions, the member receives a retirement allowance which is a life annuity terminable at the death of the annuitant, and is an amount equal to the sum of two and one-half percent (2.5%) of final compensation multiplied by the years of service accrued after July 1, 1993 and two percent (2%) of final compensation multiplied by the years of service accrued prior to July 1, 1993. The annual retirement allowance in no event shall exceed seventy-five percent (75%) of final compensation. The member contribution rate is 8.00%, plus 1.00% for the adoption of the optional COLA, for a total of 9.00%.
- c. Rhode Island General Law § 45-21.2-5 (9) contains special provisions that apply to members of the Hopkinton police department. Under these special provisions, the final compensation for benefit computation is based on the members' highest year of earnings. In addition, the members shall receive a three percent (3%) escalation of their pension payment compounded each year on January 1st following the year of retirement and continuing on an annual basis on that date. The member contribution rate is 9.00%. Compensation for benefit purposes includes base, longevity, and holiday pay.
- d. Rhode Island General Law § 45-21.2-5 (7) and § 45-21.2-14 contain special provisions that apply to members of the Cranston fire department hired after July 1, 1995 or with less than 5 years of service at that date. Under these special provisions, the final compensation for benefit computation is based on the members' highest year of earnings. In addition, the members shall receive a three percent (3%) escalation of their pension payment compounded each year on January 1st following the year of retirement and continuing on an annual basis on that date. The member contribution rate is 10.00%. Compensation for benefit purposes includes base, longevity, and holiday pay.

- e. Rhode Island General Law §§ 45-21.2-5 (8) and § 45-21.2-14 contain special provisions that apply to members of the Cranston police department hired after July 1, 1995 or with less than 5 years of service at that date. Under these special provisions, the final compensation for benefit computation is based on the members' highest year of earnings. In addition, the members shall receive a three percent (3%) escalation of their pension payment compounded each year on January 1st following the year of retirement and continuing on an annual basis on that date. The member contribution rate is 10.00%. Compensation for benefit purposes includes base, longevity, and holiday pay.

- f. Rhode Island General Law §§ 45-21.2-6.3 contains special provisions that apply to employees of Richmond Police. The Town adopted these provisions on April 3, 2008, effective July 1, 2008. Under these special provisions, members are eligible to retire after attaining 22 years of service. The retirement benefit for a member with 22 or more years of service was improved to $50.00\% \times \text{Final Average Compensation (FAC)}$, plus $2.2727\% \times \text{FAC} \times \text{Years of Service in Excess of 22}$, with a maximum benefit equal to 75% of FAC.

Glossary

Actuarial Accrued Liability (AAL): That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of Future Plan Benefits which is not provided for by future Normal Costs. It is equal to the Actuarial Present Value of Future Plan Benefits minus the actuarial present value of future Normal Costs.

Actuarial Assumptions: Assumptions as to future experience under the Fund. These include assumptions about the occurrence of future events affecting costs or liabilities, such as:

- mortality, withdrawal, disablement, and retirement;
- future increases in salary;
- future rates of investment earnings and 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 relevant items.

Actuarial Cost Method or Funding Method: A procedure for allocating the Actuarial Present Value of Future Benefits to various time periods; a method used to determine the Normal Cost and the Actuarial Accrued Liability. These items are used to determine the ARC.

Actuarial Gain or Actuarial 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 Valuation dates. Through the actuarial assumptions, rates of decrements, rates of salary increases, and rates of fund earnings have been forecasted. To the extent that actual experience differs from that assumed, Actuarial Accrued Liabilities emerge which may be the same as forecasted, or may be larger or smaller than projected. Actuarial gains are due to favorable experience, e.g., the Fund's 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, actuarial losses are the result of unfavorable experience, i.e., actual results that produce actuarial liabilities which are larger than projected. Actuarial gains will shorten the time required for funding of the actuarial balance sheet deficiency while actuarial losses will lengthen the funding period.

Actuarially 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 value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions. For purposes of this standard, each such amount or series of amounts is:

- a. adjusted for the probable financial effect of certain intervening events (such as changes in compensation levels, marital status, etc.)
- b. multiplied by the probability of the occurrence of an event (such as survival, death, disability, termination of employment, etc.) on which the payment is conditioned, and
- c. discounted according to an assumed rate (or rates) of return to reflect the time value of money.

Actuarial Present Value of Future Plan Benefits: The Actuarial Present Value of those benefit amounts which are expected to be paid at various future times under a particular set of Actuarial Assumptions, taking into account such items as the effect of advancement in age and past and anticipated future compensation and service credits. The Actuarial Present Value of Future Plan Benefits includes the liabilities for active members, retired members, beneficiaries receiving benefits, and inactive, nonretired members either entitled to 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 be 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 25, such as the funded ratio and the ARC.

Actuarial Value of Assets or Valuation Assets: The value of the Fund's assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets, but commonly actuaries use a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the ARC.

Actuarially Determined: Values which have been determined utilizing the principles of actuarial science. An actuarially determined value is derived by application of the appropriate actuarial assumptions to specified values determined by provisions of the law.

Amortization Method: A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. 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. Under

the Level Percentage of Pay method, the stream of payments increases at the assumed rate at which total covered payroll of all active members will increase.

Amortization Payment: That portion of the pension plan contribution or ARC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

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 25. The ARC consists of the Employer Normal Cost and the Amortization Payment

Closed Amortization Period: A specific number of years that is counted down by one each year, and therefore 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. See Funding Period and Open Amortization Period.

Decrements: Those causes/events due to which a member's status (active-inactive-retiree-beneficiary) changes, that is: death, retirement, disability, or termination.

Defined Benefit Plan: A retirement plan that is not a Defined Contribution Plan. Typically a defined benefit plan is one in which benefits are defined by a formula applied to the member's compensation and/or years of service.

Defined Contribution Plan: A retirement plan, such as a 401(k) plan, a 403(b) plan, or a 457 plan, in which the contributions to the plan are assigned to an account for each member, and the plan's earnings are allocated to each account, and each member's benefits are a direct function of the account balance.

Employer Normal Cost: The portion of the Normal Cost to be paid by the employers. This is equal to the Normal Cost less expected member contributions.

Experience Study: A periodic review and analysis of the actual experience of the Fund which may lead to a revision of one or more actuarial assumptions. Actual rates of decrement and salary increases are compared to the actuarially assumed values and modified as deemed appropriate by the Actuary.

Funded Ratio: The ratio of the actuarial value of assets (AVA) to the actuarial accrued liability (AAL). Plans sometimes calculate a market funded ratio, using the market value of assets (MVA), rather than the AVA, although GASB 25 reporting requires the use of the AVA.

Funding Period or Amortization Period: The term "Funding Period" is used in two ways. In the first sense, it is the period used in calculating the Amortization Payment as a component of the ARC. This funding period is chosen by the Board of Trustees. In the second sense, it is a calculated item: the number of years in the future that will theoretically be required to amortize (i.e., pay off

or eliminate) the Unfunded Actuarial Accrued Liability, based on the statutory employer contribution rate, and assuming no future actuarial gains or losses.

GASB: Governmental Accounting Standards Board.

GASB 25 and **GASB 27:** Governmental Accounting Standards Board Statements No. 25 and 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.

Normal Cost: That portion of the Actuarial Present Value of pension plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method. Any payment in respect of an Unfunded Actuarial Accrued Liability is not part of Normal Cost (see Amortization Payment). For pension plan benefits which are provided in part by employee contributions, Normal Cost refers to the total of employee contributions and employer Normal Cost unless otherwise specifically stated. Under the entry age normal cost method, the Normal Cost is intended to be the level cost (when expressed as a percentage of pay) needed to fund the benefits of a member from hire until ultimate termination, death, disability or retirement.

Open Amortization Period: An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to covered payroll.

Unfunded Actuarial Accrued Liability: The excess of the Actuarial Accrued Liability over the Actuarial Value of Assets. This value may be negative in which case it may be expressed as a negative Unfunded Actuarial Accrued Liability, also called the Funding Surplus.

Valuation Date or Actuarial Valuation Date: The date as of which the value of assets is determined and as of which the Actuarial Present Value of Future Plan Benefits is determined. The expected benefits to be paid in the future are discounted to this date.