

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

ACTUARIAL VALUATION REPORT
AS OF JUNE 30, 2014

December 17, 2014

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, 2014

This is the June 30, 2014 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 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, 2014 actuarial valuation will be applicable for the year beginning July 1, 2016 and ending June 30, 2017.

Financing objectives and funding policy

The actuarial cost method and the amortization periods are set by board policy. Normal cost rate (as a percent of pay) and actuarial accrued liabilities are computed using the Entry Age Normal actuarial cost method. The employer contribution rate is the sum of two pieces: the employer normal cost rate and the amortization rate. The employer normal cost rate is the difference between the normal cost rate and the member contribution rate. The amortization rate, also determined as a level percent of pay, is the amount required to amortize the unfunded actuarial accrued liability over a closed period (21 years remaining as of June 30, 2014). 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 84.1%, which is an increase from 82.2% in the prior valuation.

There are currently 113 units participating in MERS, 68 covering general employees and 45 covering police and/or fire employees. Of these 113 units, 86 had their rate decrease, and 18 had their rate increase. Seven units have no required contribution rate, while Westerly and Barrington Fire (20) have fixed dollar contributions. Of the 68 general employee units, 6 had rate increases, while 12 of the 45 continuing police/fire units had rate increases. An analysis of the changes in the employer contribution rates appears on Table 5. Non-salary related liability losses cause by the decrease in normal cost from the lower benefit structure were responsible for most of the increases. In addition, increases in units for police or fire were also driven by payroll losses and the impact of the assumption change.

Benefit provisions

The benefit provisions reflected in this valuation are those which were in effect on June 30, 2014. We have also reflected the known adoption of COLA B or COLA C, 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

The actuarial assumptions were changed as a result of the experience study approved by the Board on June 18, 2014. Significant changes were made to the retirement patterns for MERS General Employees (no changes for MERS Police and Firefighters). Smaller changes were made to the wage inflation, the overall payroll growth assumption, termination rates, and disability rates. More detail on changes adopted as a result of the experience study is on page 6 in the discussion section of this report. We believe the assumptions are internally consistent and are reasonable, based on the actual experience of ERSRI.

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 and the calculated contribution rates.

All assumptions and methods are described in Appendix A. The actuarial assumptions and methods used in this report comply with the parameters for disclosure that appear in GASB 67.

Data

The System's staff supplied data for retired, active and inactive members as of June 30, 2014. We did not audit this data, but we did apply a number of tests to the data, and we concluded that it was reasonable and consistent with the prior year's data. The System's staff also supplied asset data as of June 30, 2014.

Certification

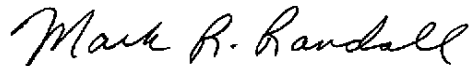
All of our work conforms with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with the requirements of Rhode Island state law and, where applicable, the Internal Revenue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

The undersigned are independent actuaries. All 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.

Respectfully submitted,



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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, 2016.

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 (UAAL) is amortized as a level percent of payroll over a closed period. For underfunded units, the period is 25 years as measured from June 30, 2010, or 21 years as of the current valuation date for any existing UAAL. Beginning with the June 30, 2014 actuarial valuation, new experience gains and losses for underfunded units are amortized over individual closed periods of 20 years using the process of “laddering”. Overfunded plans will have an amortization rate calculated using a single base amortized over an open period of 20 years. 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, 2017. 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 Investment Commission 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 (7.50% of market value) over a five-year period, 20% in each year, where gains and losses are allowed to offset each other immediately. The market value for MERS as of June 30, 2014 was \$1,394 million while the actuarial value was \$1,341 million (96.2% of market). Therefore, a cumulative total of \$53 million in actuarial gain related to the investment experience in 2014 continues to be deferred and will be recognized over the next four valuations. Recognition of this deferred gain will, all other things being equal, result in contribution rates slightly decreasing over the next four years.

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, 2014. Table 6b shows a historical summary of the return rates. The fund earned 14.8% during the year ending June 30, 2014 on a market value basis and returned 8.4% on an actuarial value basis. The average annual return based on the market value of assets over the last ten years (July 1, 2004 – June 30, 2014) was 6.9%. This is less than the current 7.50% annual investment return assumption used. The average annual return based on the actuarial value of assets over the same period was 5.8%. The returns above are net of both investment and administrative expenses, so they may differ from other information provided by the General Treasurer's office or the investment managers and advisors.

Some units have pending asset transfers for members who have moved between units or from other statewide systems. For these transfers, we have reflected the values as a receivable or payable in the market value of assets.

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, 2014. 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, unit indicator, date of last contribution, accumulated member contributions without interest, accrued benefit multiplier as of June 30, 2014, Final Average Compensation as of June 30, 2012, and the Rhode Island Retirement Security Act Retirement Date. 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. For the special survivor benefit provided to retired police and fire members, we have not been provided demographic information on possible spouses who will be eligible for that benefit. For this valuation, we have assumed 80% of members will be married and 10% of married members will choose option 1 or 2. The 80% was derived from analyzing two other large GRS clients with similar demographics and benefit provisions. One data set showed 84% of retirees with spousal information and the other 77%.

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 applicable to future retirees only (COLA C), the same increase applicable to both current and future retirees (COLA B). There were no other changes reflected in this valuation.

No units closed, withdrew or subdivided since the prior valuation.

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 of this report 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 initially adopted effective June 30, 1999 and was modified, effective June 30, 2011, to be consistent with the Act and the standards outlined in GASB Statement No. 67 exposure draft, which has now been finalized.

The method used to determine the actuarial value of assets is the five-year smoothed market method. This technique is further described in Section III of Appendix A. The development of the actuarial value of assets utilizing this method is shown in Table 6a of this report.

Discussion of the Experience Study

Between the June 30, 2013 actuarial valuation and this report, the Retirement Board, as required by Rhode Island General Law, asked GRS to analyze the assumptions and methods used in the ERSRI actuarial valuation. The experience study was performed for the period June 30, 2007 to June 30, 2013. The study examined the assumptions used for expected investment rate, inflation rate, retirement, mortality, termination, disability, salary increases, payroll growth, and other miscellaneous assumptions.

Significant changes were made to the retirement patterns for MERS General Employees (no changes for MERS Police and Firefighters). Now that members will all have a retirement age equal to their Social Security Normal Retirement Age, or RIRSA date, the complexities based on service, etc. are not needed. We are recommending a flat 25% per year retirement probability for members eligible for unreduced retirement. If in the first year a member is eligible for unreduced retirement (their SSNRA or RIRSA date) they have more than 25 years of service or are at least age 65, we will add an additional 25% probability (50% total) for MERS General Employees. This simplified pattern produces liabilities and contribution requirements similar to the current pattern.

Less material changes were made to the termination rates, the payroll growth and salary increase rates for both MERS General Employees and Police and Firefighters. The disability tables were also adjusted to more closely reflect the plan experience.

All of the changes recommended by GRS were adopted by the Board on June 18, 2014. We believe the assumptions are internally consistent and are reasonable, based on the actual experience of ERSRI.

Other Observations and Comments

- Westerly has no active members, but does have retirees/beneficiaries and an inactive member covered by MERS. The actuarial value of assets is less than the actuarial liability; therefore, a special contribution will be made in next few years to amortize the unfunded liability. Based on the June 30, 2012 actuarial valuation, a fixed contribution amount of \$181,261 per year was calculated to amortize the UAAL over a 5-year period. Continued contributions of this amount will amortize the UAAL as of June 30, 2014 in a period of just over 5 years.
- 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 (Admin) has no active employees but it has inactive members. Its assets exceed its liabilities, and thus there is no contribution requirement for the year ending June 30, 2017.
- Barrington Fire 20 (1005) still has two active members but will begin contributing fixed dollar amounts for FY2017. Based on the June 30, 2014 valuation, the actuarially determined contribution is \$253,598.
- For Cranston Police (1114) 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, liabilities, and the contributions. (Compensation shown in this report for these two units is the compensation that they contribute on, i.e., the base compensation.) Beginning July 1, 2012, these members and the City were scheduled to begin contributing on the pensionable earnings. However, we have been advised that this change did not happen in FY2014. As such, we have carried forward the prior methodologies to load the liabilities for the difference between the contribution and the benefit salaries. Salaries were loaded by 13% for longevity pay and 13 days of holiday pay.
- Other changes made between this valuation and July 1, 2016 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, 2017**

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	2.00%	6.34%	8.46%	14.80%
3003	1032 1033	Burrillville	C	2.00%	7.28%	(0.30%)	6.98%
3004	1052	Central Falls		1.00%	4.74%	8.42%	13.16%
3005	1082	Charlestown	C	2.00%	6.72%	1.14%	7.86%
3007	1112 1113	Cranston	B	2.00%	7.71%	0.68%	8.39%
3008	1122 1123	Cumberland		1.00%	6.91%	6.41%	13.32%
3009	1152 1153	East Greenwich	C	2.00%	7.08%	(2.72%)	4.36%
3010	1162 1163	East Providence	B	2.00%	7.08%	18.09%	25.17%
3011	1183	Exeter/West Greenwich	B	2.00%	7.95%	3.64%	11.59%
3012	1192 1193	Foster		1.00%	7.78%	2.68%	10.46%
3013	1212 1213	Glocester	C	2.00%	6.95%	2.73%	9.68%
3014	1262	Hopkinton	C	2.00%	7.54%	(4.48%)	3.06%
3015	1272 1273	Jamestown	C	2.00%	6.97%	2.69%	9.66%
3016	1282 1283	Johnston	C	2.00%	7.08%	8.85%	15.93%
3017	1302 1303	Lincoln		1.00%	8.12%	3.79%	11.91%
3019	1322 1323	Middletown	C	2.00%	6.37%	3.95%	10.32%
3021	1352 1353 1354	Newport	B	2.00%	6.65%	15.00%	21.65%
3022	1342 1343	New Shoreham	B	2.00%	7.20%	(0.10%)	7.10%
3023	1372 1373	North Kingstown	C	2.00%	7.07%	9.84%	16.91%
3024	1382 1383	North Providence		1.00%	7.25%	(1.85%)	5.40%
3025	1392 1393	North Smithfield	B	2.00%	7.58%	(2.39%)	5.19%
3026	1412 1413	Pawtucket	C	2.00%	6.66%	9.47%	16.13%
3027	1515	Union Fire District		1.00%	6.86%	0.59%	7.45%
3029	1452	Richmond		1.00%	6.77%	1.90%	8.67%
3030	1462 1463	Scituate	B	2.00%	6.91%	6.57%	13.48%
3031	1472 1473	Smithfield	C	2.00%	7.21%	(0.35%)	6.86%
3032	1492 1493	South Kingstown	B	2.00%	7.61%	2.96%	10.57%
3033	1532 1533	Tiverton	C	2.00%	7.16%	(5.10%)	2.06%
3034	1562	Warren	C	2.00%	5.81%	5.42%	11.23%
3037	1602	West Greenwich	C	2.00%	5.76%	9.51%	15.27%
3039	1632 1633	Woonsocket	B	2.00%	7.18%	2.87%	10.05%
3040	1073	Chariho School District	C	2.00%	6.68%	3.58%	10.26%
3041	1203	Foster/Glocester	B	2.00%	7.76%	2.27%	10.03%
3042	1528	Tiogue Fire & Lighting	C,5	2.00%	0.00%	0.00%	0.00%
3043	1336	Narragansett Housing	C	2.00%	6.56%	(2.30%)	4.26%
3045	1098	Coventry Lighting District	C	2.00%	10.78%	(68.69%)	0.00%
3046	1242	Hope Valley Fire	C	2.00%	8.38%	(8.12%)	0.26%
3050	1156	East Greenwich Housing	C	2.00%	7.38%	1.18%	8.56%
3051	1116	Cranston Housing	C	2.00%	9.57%	(3.02%)	6.55%
3052	1166	East Providence Housing	B	2.00%	7.53%	5.11%	12.64%
3053	1416	Pawtucket Housing	B	2.00%	6.88%	(10.30%)	0.00%
3056	1126	Cumberland Housing	C	2.00%	6.57%	0.15%	6.72%
3057	1306	Lincoln Housing	B	2.00%	5.50%	0.42%	5.92%
3059	1016	Bristol Housing		1.00%	6.78%	(9.94%)	0.00%
3065	1036	Burrillville Housing	B	2.00%	5.78%	1.49%	7.27%
3066	1386	North Providence Housing	B	2.00%	7.62%	21.02%	28.64%

**Contribution Rates
 For Fiscal Year Ending June 30, 2017**

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	2.00%	7.06%	(4.99%)	2.07%	
3068	1227	Greenville Water	B	2.00%	7.08%	(6.40%)	0.68%	
3069	1356	Newport Housing	C	2.00%	7.20%	10.71%	17.91%	
3071	1566	Warren Housing	B	2.00%	5.03%	(3.32%)	1.71%	
3072	1286	Johnston Housing		1.00%	8.06%	3.33%	11.39%	
3077	1538	Tiverton Local 2670A	C	2.00%	6.90%	2.26%	9.16%	
3078	1002 1003 1007 1009	Barrington COLA	C	2.00%	7.20%	0.98%	8.18%	
3079	1096	Coventry Housing		1.00%	6.94%	(0.04%)	6.90%	
3080	1496	South Kingstown Housing	C	2.00%	8.07%	(5.26%)	2.81%	
3081	1403	N. RI Collaborative Adm. Services	C	2.00%	6.29%	4.26%	10.55%	
3083	1616	West Warwick Housing	B	2.00%	7.15%	0.58%	7.73%	
3084	1476	Smithfield Housing		1.00%	6.38%	(7.63%)	0.00%	
3094	1478	Smithfield COLA	C	2.00%	6.63%	2.29%	8.92%	
3096	1056	Central Falls Housing	C	2.00%	5.76%	5.03%	10.79%	
3098	1293	Lime Rock Administrative Services		1.00%	6.42%	7.51%	13.93%	
3099	1063	Central Falls Schools	C	2.00%	6.36%	0.41%	6.77%	
3100	1023	Bristol/Warren Schools	B	2.00%	7.29%	8.18%	15.47%	
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	2.00%	7.08%	(2.72%)	4.36%	
3102	1712	Harrisville Fire District (ADMIN)	C	2.00%	6.53%	(2.90%)	3.63%	
3103	1702	Albion Fire District (ADMIN)	C,5	2.00%	0.00%	0.00%	0.00%	
3150	1159	East Greenwich Fire (ADMIN)	C	2.00%	5.80%	2.44%	8.24%	
General Employee Units Averages					1.90%	7.06%	4.94%	12.06%
Police & Fire Units								
4016	1285	Johnston Fire	D	7.00%	8.87%	(0.51%)	8.36%	
4029	1454	Richmond Police	6	7.00%	8.35%	2.59%	10.94%	
4031	1474	Smithfield Police	C,D	8.00%	8.34%	(2.12%)	6.22%	
4042	1555	Valley Falls Fire	D	7.00%	8.71%	8.49%	17.20%	
4047	1395 1435	North Smithfield Voluntary Fire	B,D	8.00%	10.10%	6.28%	16.38%	
4050	1155	East Greenwich Fire	C,D	8.00%	9.13%	18.69%	27.82%	
4054	1154	East Greenwich Police	C,D	8.00%	9.98%	17.74%	27.72%	
4055	1375	North Kingstown Fire	C,D	8.00%	9.99%	18.76%	28.75%	
4056	1374	North Kingstown Police	C,D	8.00%	9.01%	16.27%	25.28%	
4058	1385	North Providence Fire	D	7.00%	9.64%	14.18%	23.82%	
4059	1008	Barrington Fire (25)	C	8.00%	7.85%	(0.09%)	7.76%	
4060	1004	Barrington Police	C,D	8.00%	8.91%	21.34%	30.25%	
4062	1564 1565	Warren Police & Fire	C,D	8.00%	9.65%	17.84%	27.49%	
4063	1494	South Kingstown Police	B,1	8.00%	9.68%	14.28%	23.96%	
4073	1464	Scituate Police	5	7.00%	0.00%	0.00%	0.00%	
4076	1394	North Smithfield Police	C,D	8.00%	8.31%	11.25%	19.56%	
4077	1534	Tiverton Fire	C,D	8.00%	9.17%	5.53%	14.70%	
4082	1194	Foster Police	C,D	8.00%	11.47%	13.86%	25.33%	
4085	1634	Woonsocket Police	C,D	8.00%	8.83%	18.53%	27.36%	
4086	1084	Charlestown Police	C,D	8.00%	9.27%	14.33%	23.60%	

**Contribution Rates
 For Fiscal Year Ending June 30, 2017**

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)
4087	1264	Hopkinton Police	C,D,6	8.00%	9.08%	20.53%	29.61%
4088	1214	Glocester Police	C,D	8.00%	10.13%	6.38%	16.51%
4089	1604	West Greenwich Police/Rescue	C,D	8.00%	10.87%	10.57%	21.44%
4090	1034	Burrillville Police	C,D,6	8.00%	11.61%	9.25%	20.86%
4091	1148	Cumberland Rescue	C,D	8.00%	10.15%	(0.89%)	9.26%
4093	1635	Woonsocket Fire	C,D	8.00%	9.39%	0.68%	10.07%
4094	1015	Bristol Fire	D	7.00%	14.76%	4.08%	18.84%
4095	1135	Cumberland Hill Fire	C,D	8.00%	8.66%	19.06%	27.72%
4096	1014	Bristol Police	C,D	8.00%	8.49%	(3.80%)	4.69%
4098	1095	Coventry Fire	C,D	7.00%	9.44%	12.28%	21.72%
4099	1505	South Kingstown EMT	C,D	8.00%	9.60%	(5.43%)	4.17%
4101	1365	North Cumberland	C,D	8.00%	11.11%	11.32%	22.43%
4102	1045 1235 1525 1585	Central Coventry Fire	C,D	8.00%	9.61%	8.08%	17.69%
4103	1255	Hopkins Hill Fire	C,D	8.00%	11.75%	2.04%	13.79%
4104	1114	Cranston Police	C,D,4	8.00%	9.15%	0.25%	9.40%
4105	1115	Cranston Fire	C,D,4	8.00%	10.24%	(2.83%)	7.41%
4106	1125	Cumberland Fire	B,D	8.00%	10.68%	12.69%	23.37%
4107	1305	Lincoln Rescue	C	8.00%	8.68%	9.04%	17.72%
4108	1344	New Shoreham Police	B,D	8.00%	10.30%	12.99%	23.29%
4109	1324	Middletown Police & Fire	C,D	8.00%	8.43%	(2.40%)	6.03%
4110	1715	Harrisville Fire District	C,D	8.00%	10.21%	(4.25%)	5.96%
4111	1705	Albion Fire District	C	8.00%	9.36%	9.51%	18.87%
1284	1284	Johnston Police		7.00%	8.41%	(0.03%)	8.38%
1465	1465	Smithfield Fire	C	8.00%	9.11%	(0.22%)	8.89%
Police & Fire Units Averages				7.87%	9.44%	6.71%	16.15%
All MERS Units Averages				3.61%	7.74%	5.45%	13.23%

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 2013 valuation.

3 - Closed unit.

4 - Historically, Cranston Fire and Police are contributing 10% due to special plan provision. 5 - This unit has no active members.

6 - Historically, Special plan provisions apply to this unit.

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 2

		Comparison of Employer Contribution Rates										
Old Unit Number	New Unit Number	Unit	Code(s)	Contribution Rates			Projected Payroll, Projected from Actual FY2014 Payroll			Estimated Contributions		
				June 30, 2014 Actuarial Valuation, for FY2017	June 30, 2013 Actuarial Valuation, for FY2016	June 30, 2012 Actuarial Valuation, for FY2015	For FY2017	For FY2016	For FY2015	June 30, 2014 Actuarial Valuation, for FY2017	June 30, 2013 Actuarial Valuation, for FY2016	June 30, 2012 Actuarial Valuation, for FY2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
General Employee Units												
3002	1012 1019	Bristol	B	14.80%	14.95%	15.35%	\$ 5,049,017	\$ 4,890,089	\$ 4,736,163	\$ 747,254	\$ 731,068	\$ 727,001
3003	1032 1033	Burrillville	C	6.98%	8.52%	8.27%	6,383,471	6,182,538	5,987,930	445,566	526,752	495,202
3004	1052	Central Falls		13.16%	13.62%	14.53%	1,812,862	1,755,798	1,700,531	238,573	239,140	247,087
3005	1082	Charlestown	C	7.86%	9.86%	10.12%	2,297,576	2,225,255	2,155,210	180,589	219,410	218,107
3007	1112 1113	Cranston	B	8.39%	9.86%	10.26%	25,897,788	25,082,603	24,293,078	2,172,824	2,473,145	2,492,470
3008	1122 1123	Cumberland		13.32%	13.64%	14.34%	9,307,103	9,014,144	8,730,405	1,239,706	1,229,529	1,251,940
3009	1152 1153	East Greenwich	C	4.36%	5.31%	6.86%	1,203,640	1,165,753	1,129,058	52,479	61,884	77,500
3010	1162 1163	East Providence	B	25.17%	25.19%	22.12%	17,317,780	16,772,668	16,244,715	4,358,885	4,225,035	3,593,331
3011	1183	Exeter/West Greenwich	B	11.59%	12.36%	12.34%	2,864,331	2,774,171	2,686,848	331,976	342,887	331,557
3012	1192 1193	Foster		10.46%	11.83%	10.42%	1,247,851	1,208,572	1,170,530	130,525	142,974	121,969
3013	1212 1213	Glocester	C	9.68%	9.77%	9.97%	2,652,058	2,568,579	2,487,728	256,719	250,950	248,026
3014	1262	Hopkinton	C	3.06%	4.77%	5.89%	1,839,485	1,781,584	1,725,505	56,288	84,982	101,632
3015	1272 1273	Jamestown	C	9.66%	10.69%	11.34%	4,032,670	3,905,734	3,782,793	389,556	417,523	428,969
3016	1282 1283	Johnston	C	15.93%	16.09%	15.72%	8,528,901	8,260,437	8,000,423	1,358,654	1,329,104	1,257,667
3017	1302 1303	Lincoln		11.91%	12.70%	13.00%	1,021,329	989,181	958,044	121,640	125,626	124,546
3019	1322 1323	Middletown	C	10.32%	10.82%	11.39%	6,048,552	5,858,162	5,673,764	624,211	633,853	646,242
3021	1352 1353 1354	Newport	B	21.65%	21.86%	21.50%	12,406,593	12,016,071	11,637,841	2,686,027	2,626,713	2,502,136
3022	1342 1343	New Shoreham	B	7.10%	8.01%	8.07%	2,275,126	2,203,512	2,134,152	161,534	176,501	172,226
3023	1372 1373	North Kingstown	C	16.91%	17.44%	15.15%	11,833,957	11,461,460	11,100,687	2,001,122	1,998,879	1,681,754
3024	1382 1383	North Providence		5.40%	6.82%	7.56%	7,487,760	7,252,068	7,023,794	404,339	494,591	530,999
3025	1392 1393	North Smithfield	B	5.19%	6.44%	6.18%	3,575,317	3,462,777	3,353,779	185,559	223,003	207,264
3026	1412 1413	Pawtucket	C	16.13%	16.91%	16.39%	20,861,732	20,205,068	19,569,073	3,364,997	3,416,677	3,207,371
3027	1515	Union Fire District		7.45%	7.74%	8.27%	305,329	295,718	286,409	22,747	22,889	23,686
3029	1452	Richmond		8.67%	10.00%	10.41%	1,070,761	1,037,057	1,004,413	92,835	103,706	104,559
3030	1462 1463	Scituate	B	13.48%	14.71%	14.95%	2,863,167	2,773,043	2,685,756	385,955	407,915	401,521
3031	1472 1473	Smithfield	C	6.86%	8.47%	8.53%	3,505,861	3,395,507	3,288,627	240,502	287,599	280,520
3032	1492 1493	South Kingstown	B	10.57%	11.25%	11.57%	13,074,902	12,663,343	12,264,739	1,382,017	1,424,626	1,419,030
3033	1532 1533	Tiverton	C	2.06%	3.19%	4.40%	3,634,216	3,519,821	3,409,028	74,865	112,282	149,997
3034	1562	Warren	C	11.23%	12.68%	12.77%	2,201,336	2,132,044	2,064,934	247,210	270,343	263,692
3037	1602	West Greenwich	C	15.27%	16.50%	16.19%	1,010,775	978,959	948,144	154,345	161,528	153,505
3039	1632 1633	Woonsocket	B	10.05%	10.27%	10.02%	11,496,428	11,134,555	10,784,072	1,155,391	1,143,519	1,080,564
3040	1073	Chariho School District	C	10.26%	10.73%	11.04%	5,960,744	5,773,118	5,591,398	611,572	619,456	617,290
3041	1203	Foster/Glocester	B	10.03%	11.75%	12.45%	1,934,406	1,873,517	1,814,544	194,021	220,138	225,911
3042	1528	Tiogue Fire & Lighting	C,5	0.00%	0.00%	0.00%	-	-	-	-	-	-
3043	1336	Narragansett Housing	C	4.26%	5.71%	6.01%	196,476	190,291	184,301	8,370	10,866	11,077
3045	1098	Coventry Lighting District	C	0.00%	0.00%	0.00%	42,246	40,917	39,629	-	-	-
3046	1242	Hope Valley Fire	C	0.26%	2.83%	4.64%	154,188	149,334	144,634	401	4,226	6,711
3050	1156	East Greenwich Housing	C	8.56%	10.22%	9.24%	621,247	601,692	582,753	53,179	61,493	53,846
3051	1116	Cranston Housing	C	6.55%	7.45%	7.69%	1,236,366	1,197,449	1,159,757	80,982	89,210	89,185
3052	1166	East Providence Housing	B	12.64%	11.54%	11.63%	805,683	780,323	755,760	101,838	90,049	87,895

Municipal Employees' Retirement System
 State of Rhode Island
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Table 2

		Comparison of Employer Contribution Rates										
Old Unit Number	New Unit Number	Unit	Code(s)	Contribution Rates			Projected Payroll, Projected from Actual FY2014 Payroll			Estimated Contributions		
				June 30, 2014 Actuarial Valuation, for FY2017	June 30, 2013 Actuarial Valuation, for FY2016	June 30, 2012 Actuarial Valuation, for FY2015	For FY2017	For FY2016	For FY2015	June 30, 2014 Actuarial Valuation, for FY2017	June 30, 2013 Actuarial Valuation, for FY2016	June 30, 2012 Actuarial Valuation, for FY2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
3053	1416	Pawtucket Housing	B	0.00%	0.00%	0.00%	3,031,224	2,935,810	2,843,399	-	-	-
3056	1126	Cumberland Housing	C	6.72%	7.36%	7.26%	603,054	584,072	565,687	40,525	42,988	41,069
3057	1306	Lincoln Housing	B	5.92%	7.44%	8.23%	490,389	474,953	460,003	29,031	35,337	37,858
3059	1016	Bristol Housing		0.00%	0.00%	0.00%	450,929	436,735	422,988	-	-	-
3065	1036	Burrillville Housing	B	7.27%	7.58%	7.43%	218,041	211,178	204,531	15,852	16,007	15,197
3066	1386	North Providence Housing	B	28.64%	27.46%	26.07%	293,532	284,293	275,344	84,068	78,067	71,782
3067	1177	East Smithfield Water	C	2.07%	2.19%	2.93%	206,869	200,358	194,051	4,282	4,388	5,686
3068	1227	Greenville Water	B	0.68%	1.96%	1.29%	293,199	283,970	275,031	1,994	5,566	3,548
3069	1356	Newport Housing	C	17.91%	18.33%	18.93%	1,632,971	1,581,570	1,531,787	292,465	289,902	289,967
3071	1566	Warren Housing	B	1.71%	6.03%	6.09%	300,823	291,354	282,183	5,144	17,569	17,185
3072	1286	Johnston Housing		11.39%	11.52%	11.86%	436,785	423,036	409,720	49,750	48,734	48,593
3077	1538	Tiverton Local 2670A	C	9.16%	8.52%	9.44%	1,084,572	1,050,433	1,017,368	99,347	89,497	96,040
3078	1002 1003 1007 1009	Barrington COLA	C	8.18%	8.48%	8.40%	8,065,944	7,812,052	7,566,152	659,794	662,462	635,557
3079	1096	Coventry Housing		6.90%	8.09%	7.66%	646,008	625,674	605,979	44,575	50,617	46,418
3080	1496	South Kingstown Housing	C	2.81%	2.59%	3.83%	188,419	182,488	176,744	5,295	4,726	6,769
3081	1403	N. RI Collaborative Adm. Services	C	10.55%	8.94%	8.35%	959,429	929,229	899,980	101,220	83,073	75,148
3083	1616	West Warwick Housing	B	7.73%	9.42%	9.35%	512,872	496,728	481,093	39,645	46,792	44,982
3084	1476	Smithfield Housing		0.00%	2.26%	2.24%	135,527	131,261	127,129	-	2,966	2,848
3094	1478	Smithfield COLA	C	8.92%	9.73%	10.05%	3,945,632	3,821,436	3,701,148	351,950	371,826	371,965
3096	1056	Central Falls Housing	C	10.79%	11.14%	11.42%	1,113,569	1,078,517	1,044,569	120,154	120,147	119,290
3098	1293	Lime Rock Administrative Services		13.93%	13.25%	13.06%	94,393	91,422	88,544	13,149	12,113	11,564
3099	1063	Central Falls Schools	C	6.77%	8.00%	8.63%	3,862,205	3,740,634	3,622,890	261,471	299,251	312,655
3100	1023	Bristol/Warren Schools	B	15.47%	17.37%	15.94%	4,592,356	4,447,802	4,307,799	710,437	772,583	686,663
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	4.36%	5.31%	6.86%	6,082,580	5,891,119	5,705,684	265,200	312,730	391,646
3102	1712	Harrisville Fire District (ADMIN)	C	3.63%	7.62%	6.32%	252,060	244,126	236,441	9,150	18,602	14,943
3103	1702	Albion Fire District (ADMIN)	C,5	0.00%	0.00%	0.00%	-	-	-	6,445	7,590	11,812
3150	1159	East Greenwich Fire (ADMIN)	C	8.24%	8.99%	16.05%	41,135	39,840	38,586	3,389	3,582	6,193
General Employee Units Average				12.06%	12.74%	12.63%	\$ 245,593,541	\$ 237,862,994	\$ 230,375,781	\$ 29,529,588	\$ 30,397,185	\$ 28,999,363
Police & Fire Units												
4016	1285	Johnston Fire	D	8.36%	9.24%	9.65%	\$ 3,661,808	\$ 3,537,979	\$ 3,418,337	\$ 306,127	\$ 326,909	\$ 329,870
4029	1454	Richmond Police	6	10.94%	12.37%	12.19%	714,823	690,651	667,295	78,202	85,433	81,343
4031	1474	Smithfield Police	C,D	6.22%	6.93%	7.09%	3,053,317	2,950,064	2,850,304	189,916	204,439	202,087
4042	1555	Valley Falls Fire	D	17.20%	16.65%	18.04%	825,431	797,518	770,549	141,974	132,787	139,007
4047	1395 1435	North Smithfield Voluntary Fire	B,D	16.38%	17.15%	17.99%	1,352,523	1,306,785	1,262,595	221,543	224,114	227,141
4050	1155	East Greenwich Fire	C,D	27.82%	26.48%	26.12%	2,546,676	2,460,557	2,377,350	708,485	651,555	620,964
4054	1154	East Greenwich Police	C,D	27.72%	27.93%	26.05%	2,311,427	2,233,263	2,157,742	640,728	623,750	562,092

Municipal Employees' Retirement System
 State of Rhode Island
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Table 2

				Comparison of Employer Contribution Rates			Projected Payroll, Projected from Actual FY2014 Payroll			Estimated Contributions		
Old Unit Number	New Unit Number	Unit	Code(s)	Contribution Rates			For FY2017	For FY2016	For FY2015	June 30, 2014 Actuarial Valuation, for FY2017	June 30, 2013 Actuarial Valuation, for FY2016	June 30, 2012 Actuarial Valuation, for FY2015
				June 30, 2014 Actuarial Valuation, for FY2017	June 30, 2013 Actuarial Valuation, for FY2016	June 30, 2012 Actuarial Valuation, for FY2015						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
4055	1375	North Kingstown Fire	C,D	28.75%	30.04%	28.13%	4,183,943	4,042,457	3,905,756	1,202,884	1,214,354	1,098,689
4056	1374	North Kingstown Police	C,D	25.28%	25.44%	27.62%	3,335,417	3,222,625	3,113,647	843,193	819,836	859,989
4058	1385	North Providence Fire	D	23.82%	23.56%	25.06%	5,772,530	5,577,324	5,388,718	1,375,017	1,314,017	1,350,413
4059	1008	Barrington Fire (25)	C	7.76%	9.02%	9.37%	1,325,926	1,281,088	1,237,766	102,892	115,554	115,979
4060	1004	Barrington Police	C,D	30.25%	29.80%	29.46%	1,613,426	1,558,866	1,506,151	488,061	464,542	443,712
4062	1564 1565	Warren Police & Fire	C,D	27.49%	27.86%	30.51%	1,660,053	1,603,916	1,549,677	456,349	446,851	472,807
4063	1494	South Kingstown Police	B,1	23.96%	24.71%	22.79%	3,459,567	3,342,576	3,229,542	828,912	825,951	736,013
4076	1394	North Smithfield Police	C,D	19.56%	21.79%	19.76%	1,598,153	1,544,109	1,491,893	312,599	336,461	294,798
4077	1534	Tiverton Fire	C,D	14.70%	14.13%	15.33%	1,849,702	1,787,152	1,726,717	271,906	252,525	264,706
4082	1194	Foster Police	C,D	25.33%	32.58%	32.90%	427,784	413,318	399,341	108,358	134,659	131,383
4085	1634	Woonsocket Police	C,D	27.36%	26.08%	23.44%	5,705,502	5,512,562	5,326,147	1,561,025	1,437,676	1,248,449
4086	1084	Charlestown Police	C,D	23.60%	23.45%	24.41%	1,551,407	1,498,944	1,448,255	366,132	351,502	353,519
4087	1264	Hopkinton Police	C,D,6	29.61%	29.40%	24.16%	977,014	943,975	912,053	289,294	277,529	220,352
4088	1214	Glocester Police	C,D	16.51%	17.89%	18.16%	1,072,972	1,036,688	1,001,631	177,148	185,463	181,896
4089	1604	West Greenwich Police/Rescue	C,D	21.44%	22.45%	23.63%	921,460	890,300	860,193	197,561	199,872	203,264
4090	1034	Burrillville Police	C,D,6	20.86%	25.65%	24.90%	1,370,160	1,323,826	1,279,059	285,815	339,561	318,486
4091	1148	Cumberland Rescue	C,D	9.26%	11.12%	10.93%	1,121,624	1,083,694	1,047,048	103,862	120,507	114,442
4093	1635	Woonsocket Fire	C,D	10.07%	11.28%	10.94%	7,659,296	7,400,286	7,150,035	771,291	834,752	782,214
4094	1015	Bristol Fire	D	18.84%	24.92%	24.92%	106,387	102,789	99,313	20,043	25,615	24,749
4095	1135	Cumberland Hill Fire	C,D	27.72%	28.57%	26.71%	799,565	772,526	746,402	221,639	220,711	199,364
4096	1014	Bristol Police	C,D	4.69%	5.84%	5.73%	2,367,279	2,287,226	2,209,881	111,025	133,574	126,626
4098	1095	Coventry Fire	C,D	21.72%	21.46%	21.96%	1,132,612	1,094,311	1,057,306	246,003	234,839	232,184
4099	1505	South Kingstown EMT	C,D	4.17%	5.34%	5.96%	876,749	847,100	818,454	36,560	45,235	48,780
4101	1365	North Cumberland	C,D	22.43%	21.05%	21.18%	783,964	757,453	731,839	175,843	159,444	155,003
4102	1045 1235 1525 1585	Central Coventry Fire	C,D	17.69%	16.52%	17.64%	2,824,990	2,729,459	2,637,159	499,741	450,907	465,195
4103	1255	Hopkins Hill Fire	C,D	13.79%	13.92%	13.40%	759,695	734,005	709,184	104,762	102,173	95,031
4104	1114	Cranston Police	C,D,4	9.40%	9.82%	10.69%	8,587,626	8,297,223	8,016,641	807,237	814,787	856,979
4105	1115	Cranston Fire	C,D,4	7.41%	8.15%	10.44%	12,890,324	12,454,419	12,033,255	955,173	1,015,035	1,256,272
4106	1125	Cumberland Fire	B,D	23.37%	23.37%	22.00%	781,574	755,144	729,608	182,654	176,477	160,514
4107	1305	Lincoln Rescue	C	17.72%	18.07%	20.19%	996,257	962,568	930,017	176,537	173,936	187,770
4108	1344	New Shoreham Police	B,D	23.29%	23.45%	25.24%	281,435	271,918	262,723	65,546	63,765	66,311
4109	1324	Middletown Police & Fire	C,D	6.03%	6.40%	6.48%	3,365,915	3,252,092	3,142,118	202,965	208,134	203,609

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Table 2

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Old Unit Number	New Unit Number	Unit	Code(s)	Contribution Rates			Projected Payroll, Projected from Actual FY2014 Payroll			Estimated Contributions		
				June 30, 2014 Actuarial Valuation, for FY2017	June 30, 2013 Actuarial Valuation, for FY2016	June 30, 2012 Actuarial Valuation, for FY2015	For FY2017	For FY2016	For FY2015	June 30, 2014 Actuarial Valuation, for FY2017	June 30, 2013 Actuarial Valuation, for FY2016	June 30, 2012 Actuarial Valuation, for FY2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
4110	1715	Harrisville Fire District	C,D	5.96%	7.87%	8.16%	320,181	309,353	298,892	19,083	24,346	24,390
4111	1705	Albion Fire District	C	18.87%	17.45%	20.65%	244,942	236,659	228,656	46,221	41,297	47,218
1284	1284	Johnston Police		8.38%	8.98%	9.28%	567,396	548,209	529,670	47,548	49,229	49,153
1465	1465	Smithfield Fire	C	8.89%	10.31%	9.67%	522,243	504,583	487,519	46,427	52,022	47,143
Police & Fire Units Average				16.15%	16.73%	17.26%	\$ 98,281,077	\$ 94,957,563	\$ 91,746,437	\$ 15,994,283	\$ 15,912,129	\$ 15,599,904
All MERS Units Average				13.23%	13.88%	13.89%	\$ 343,874,619	\$ 332,820,557	\$ 322,122,219	\$ 45,523,871	\$ 46,309,314	\$ 44,599,266

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 2013 valuation.

3 - Closed unit.

4 - Historically, Cranston Fire and Police are contributing 10% due to special plan provision. 5 - This unit has no active members.

6 - Historically, Special plan provisions apply to this unit.

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)
3002	1012 1019	Bristol	B	4,565,961	375,872	21,870,147	16,247,687
3003	1032 1033	Burrillville	C	5,777,438	528,351	25,900,907	26,001,541
3004	1052	Central Falls		1,701,834	98,043	6,825,966	4,807,282
3005	1082	Charlestown	C	2,069,777	178,474	6,632,612	6,216,874
3007	1112 1113	Cranston	B	23,500,348	2,221,840	133,108,789	130,166,826
3008	1122 1123	Cumberland		8,553,260	672,997	30,394,440	22,479,666
3009	1152 1153	East Greenwich	C	987,197	76,033	6,302,053	7,457,565
3010	1162 1163	East Providence	B	15,782,796	1,427,717	100,882,418	60,424,450
3011	1183	Exeter/West Greenwich	B	2,490,667	243,999	9,923,091	8,537,412
3012	1192 1193	Foster		1,096,774	93,641	3,706,569	3,262,901
3013	1212 1213	Glocester	C	2,586,789	226,476	8,886,976	7,929,812
3014	1262	Hopkinton	C	1,632,535	153,536	3,909,290	4,943,683
3015	1272 1273	Jamestown	C	3,625,078	321,527	13,284,231	11,776,631
3016	1282 1283	Johnston	C	7,622,797	689,980	40,174,288	30,333,285
3017	1302 1303	Lincoln		969,193	88,435	2,305,505	1,784,625
3019	1322 1323	Middletown	C	5,465,825	455,089	19,723,766	16,522,664
3021	1352 1353 1354	Newport	B	11,605,398	995,446	69,417,539	45,108,436
3022	1342 1343	New Shoreham	B	2,086,002	188,157	6,278,607	6,270,414
3023	1372 1373	North Kingstown	C	10,951,978	977,521	59,509,832	44,443,685
3024	1382 1383	North Providence		6,647,342	545,016	25,887,431	27,515,552
3025	1392 1393	North Smithfield	B	3,180,020	301,085	12,504,832	13,584,435
3026	1412 1413	Pawtucket	C	19,062,092	1,647,515	114,470,849	88,486,193
3027	1515	Union Fire District		277,395	20,528	622,518	596,262
3029	1452	Richmond		1,010,342	76,113	2,200,635	1,908,784
3030	1462 1463	Scituate	B	2,670,386	232,126	12,544,675	10,029,081
3031	1472 1473	Smithfield	C	3,237,657	296,175	11,998,678	12,060,033
3032	1492 1493	South Kingstown	B	11,936,167	1,126,488	54,706,378	49,494,545
3033	1532 1533	Tiverton	C	3,287,638	299,206	10,131,590	12,514,047

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	1,968,626	152,997	6,463,790	4,853,780
3036	1622 1623	Westerly		-	-	1,002,383	214,791
3037	1602	West Greenwich	C	982,682	76,274	3,661,517	2,387,020
3039	1632 1633	Woonsocket	B	10,354,456	944,232	64,378,045	60,048,923
3040	1073	Chariho School District	C	5,401,986	468,440	19,154,440	16,302,912
3041	1203	Foster/Glocester	B	1,814,266	175,414	6,831,562	6,197,936
3042	1528	Tiogue Fire & Lighting	C,5	-	-	24,530	46,800
3043	1336	Narragansett Housing	C	178,500	15,643	433,464	488,690
3045	1098	Coventry Lighting District	C	38,381	2,585	827,221	1,174,599
3046	1242	Hope Valley Fire	C	140,081	11,481	406,555	565,595
3050	1156	East Greenwich Housing	C	537,075	50,721	1,327,492	1,219,786
3051	1116	Cranston Housing	C	1,123,254	118,305	4,287,105	4,767,651
3052	1166	East Providence Housing	B	733,748	69,876	3,296,864	2,768,801
3053	1416	Pawtucket Housing	B	2,643,745	232,210	9,325,393	13,344,578
3056	1126	Cumberland Housing	C	547,879	46,987	1,289,879	1,272,988
3057	1306	Lincoln Housing	B	480,451	36,138	1,670,595	1,608,288
3059	1016	Bristol Housing		416,543	31,910	1,423,831	2,002,193
3065	1036	Burrillville Housing	B	198,093	15,129	956,303	913,410
3066	1386	North Providence Housing	B	266,677	25,674	1,617,646	820,848
3067	1177	East Smithfield Water	C	187,944	17,272	792,969	930,176
3068	1227	Greenville Water	B	266,374	24,688	900,068	1,147,723
3069	1356	Newport Housing	C	1,493,879	132,874	8,710,456	6,404,592
3071	1566	Warren Housing	B	272,686	19,212	1,155,306	1,266,695
3072	1286	Johnston Housing		381,614	33,443	1,317,778	1,126,082
3077	1538	Tiverton Local 2670A	C	943,497	81,155	4,118,373	3,796,579
3078	1002 1003 1007 1009	Barrington COLA	C	7,295,087	664,495	33,021,264	31,948,721
3079	1096	Coventry Housing		614,805	49,254	1,028,949	1,021,076
3080	1496	South Kingstown Housing	C	171,180	17,346	220,445	352,524
3081	1403	N. RI Collaborative Adm. Services	C	928,010	77,415	3,200,107	2,687,837
3083	1616	West Warwick Housing	B	466,117	41,696	1,712,719	1,662,833

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 3

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		123,127	9,349	287,363	418,143
3094	1478	Smithfield COLA	C	3,641,589	315,612	14,818,824	13,568,547
3096	1056	Central Falls Housing	C	892,008	70,139	2,763,207	2,019,624
3098	1293	Lime Rock Administrative Services		85,757	6,479	358,001	266,672
3099	1063	Central Falls Schools	C	3,765,093	311,345	14,282,614	13,980,297
3100	1023	Bristol/Warren Schools	B	4,211,854	386,832	20,596,833	15,642,261
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	5,522,513	507,949	18,904,992	20,194,836
3102	1712	Harrisville Fire District (ADMIN)	C	228,998	20,046	537,558	621,135
3103	1702	Albion Fire District (ADMIN)	C,5	-	-	98,945	123,544
3150	1159	East Greenwich Fire (ADMIN)	C	37,371	2,986	331,208	315,249
General Employee Units Subtotal				\$ 223,736,632	\$ 19,820,989	\$ 1,071,641,207	\$ 911,399,106

Police & Fire Units

4016	1285	Johnston Fire	D	3,337,299	555,277	4,739,297	4,925,505
4029	1454	Richmond Police	6	636,651	101,099	1,601,561	1,342,825
4031	1474	Smithfield Police	C,D	2,720,752	457,128	11,303,806	12,146,287
4042	1555	Valley Falls Fire	D	757,633	122,937	4,108,707	3,175,754
4047	1395 1435	North Smithfield Voluntary Fire	B,D	1,197,122	208,716	7,500,226	6,347,348
4050	1155	East Greenwich Fire	C,D	2,259,974	402,867	16,933,335	10,675,421
4054	1154	East Greenwich Police	C,D	2,068,289	385,287	18,696,235	13,281,125
4055	1375	North Kingstown Fire	C,D	3,811,583	681,042	38,570,524	28,172,804
4056	1374	North Kingstown Police	C,D	2,984,202	518,889	25,747,108	18,469,194
4058	1385	North Providence Fire	D	5,235,232	877,558	40,644,853	29,723,454
4059	1008	Barrington Fire (25)	C	1,158,515	194,360	1,987,884	1,969,915
4060	1004	Barrington Police	C,D	1,455,220	251,317	12,438,597	7,885,284
4061	1005	Barrington Fire (20)	C,D	133,536	20,140	9,797,193	6,913,720
4062	1564 1565	Warren Police & Fire	C,D	1,497,271	259,941	12,896,161	8,921,543
4063	1494	South Kingstown Police	B,1	3,110,132	552,695	27,720,708	21,173,155

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)
4073	1464	Scituate Police	5	-	-	20,938	195,509
4076	1394	North Smithfield Police	C,D	1,454,883	242,572	10,929,616	8,510,111
4077	1534	Tiverton Fire	C,D	1,578,853	281,226	10,730,265	9,371,451
4082	1194	Foster Police	C,D	364,758	76,954	3,278,062	2,451,813
4085	1634	Woonsocket Police	C,D	5,121,719	891,901	47,117,999	33,332,954
4086	1084	Charlestown Police	C,D	1,360,222	237,219	10,918,670	7,955,579
4087	1264	Hopkinton Police	C,D,6	902,266	161,392	7,807,659	5,188,023
4088	1214	Glocester Police	C,D	1,000,882	186,468	6,400,225	5,470,189
4089	1604	West Greenwich Police/Rescue	C,D	836,964	165,118	4,692,640	3,374,204
4090	1034	Burrillville Police	C,D,6	1,257,025	250,136	10,471,468	8,708,108
4091	1148	Cumberland Rescue	C,D	1,011,639	186,862	5,157,839	5,260,037
4093	1635	Woonsocket Fire	C,D	6,740,219	1,187,398	40,120,369	39,319,360
4094	1015	Bristol Fire	D	95,955	22,194	336,851	268,465
4095	1135	Cumberland Hill Fire	C,D	721,162	126,296	5,856,460	3,833,502
4096	1014	Bristol Police	C,D	2,124,582	364,672	4,274,351	5,460,724
4098	1095	Coventry Fire	C,D	971,187	161,777	5,222,077	3,374,091
4099	1505	South Kingstown EMT	C,D	811,563	147,673	2,826,297	3,455,604
4101	1365	North Cumberland	C,D	737,745	140,174	5,438,314	4,275,258
4102	1045 1235 1525 1585	Central Coventry Fire	C,D	2,364,059	426,513	11,914,573	8,904,982
4103	1255	Hopkins Hill Fire	C,D	685,204	133,726	2,207,368	2,003,093
4104	1114	Cranston Police	C,D,4	9,213,986	1,643,229	30,168,151	29,761,760
4105	1115	Cranston Fire	C,D,4	11,543,481	2,152,431	44,644,751	49,212,141
4106	1125	Cumberland Fire	B,D	704,936	135,191	4,867,106	3,558,231
4107	1305	Lincoln Rescue	C	863,347	139,274	4,236,738	3,017,968
4108	1344	New Shoreham Police	B,D	278,139	53,255	1,550,958	1,060,132
4109	1324	Middletown Police & Fire	C,D	3,251,065	563,748	3,367,553	4,447,712
4110	1715	Harrisville Fire District	C,D	288,783	53,233	980,994	1,155,791
4111	1705	Albion Fire District	C	220,923	39,550	992,810	680,556

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 3

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)
1284	1284	Johnston Police		545,703	91,765	223,603	218,664
1465	1465	Smithfield Fire	C	522,308	95,136	708,330	713,997
Police & Fire Units Subtotal				<u>\$ 89,936,969</u>	<u>\$ 15,946,336</u>	<u>\$ 522,149,230</u>	<u>\$ 429,663,343</u>
All MERS Units Total				\$ 313,673,601	\$ 35,767,325	\$ 1,593,790,437	\$ 1,341,062,449

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 2013 valuation.

3 - Closed unit.

4 - Historically, Cranston Fire and Police are contributing 10% due to special plan provisic 5 - This unit has no active members.

6 - Historically, Special plan provisions apply to this unit.

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	\$ 16,885,963	\$ 16,247,687
3003	1032 1033	Burrillville	C	27,022,990	26,001,541
3004	1052	Central Falls		4,996,132	4,807,282
3005	1082	Charlestown	C	6,461,099	6,216,874
3007	1112 1113	Cranston	B	135,280,321	130,166,826
3008	1122 1123	Cumberland		23,362,761	22,479,666
3009	1152 1153	East Greenwich	C	7,750,529	7,457,565
3010	1162 1163	East Providence	B	62,798,173	60,424,450
3011	1183	Exeter/West Greenwich	B	8,872,797	8,537,412
3012	1192 1193	Foster		3,391,081	3,262,901
3013	1212 1213	Glocester	C	8,241,328	7,929,812
3014	1262	Hopkinton	C	5,137,891	4,943,683
3015	1272 1273	Jamestown	C	12,239,266	11,776,631
3016	1282 1283	Johnston	C	31,524,902	30,333,285
3017	1302 1303	Lincoln		1,854,733	1,784,625
3019	1322 1323	Middletown	C	17,171,743	16,522,664
3021	1352 1353 1354	Newport	B	46,880,482	45,108,436
3022	1342 1343	New Shoreham	B	6,516,742	6,270,414
3023	1372 1373	North Kingstown	C	46,189,618	44,443,685
3024	1382 1383	North Providence		28,596,477	27,515,552
3025	1392 1393	North Smithfield	B	14,118,088	13,584,435
3026	1412 1413	Pawtucket	C	91,962,298	88,486,193
3027	1515	Union Fire District		619,685	596,262
3029	1452	Richmond		1,983,769	1,908,784
3030	1462 1463	Scituate	B	10,423,065	10,029,081
3031	1472 1473	Smithfield	C	12,533,801	12,060,033
3032	1492 1493	South Kingstown	B	51,438,896	49,494,545
3033	1532 1533	Tiverton	C	13,005,651	12,514,047
3034	1562	Warren	C	5,044,456	4,853,780
3036	1622 1623	Westerly		223,229	214,791
3037	1602	West Greenwich	C	2,480,792	2,387,020
3039	1632 1633	Woonsocket	B	62,407,893	60,048,923
3040	1073	Chariho School District	C	16,943,358	16,302,912
3041	1203	Foster/Glocester	B	6,441,417	6,197,936
3042	1528	Tiogue Fire & Lighting	C,5	48,639	46,800
3043	1336	Narragansett Housing	C	507,888	488,690
3045	1098	Coventry Lighting District	C	1,220,742	1,174,599
3046	1242	Hope Valley Fire	C	587,814	565,595
3050	1156	East Greenwich Housing	C	1,267,704	1,219,786
3051	1116	Cranston Housing	C	4,954,944	4,767,651
3052	1166	East Providence Housing	B	2,877,571	2,768,801
3053	1416	Pawtucket Housing	B	13,868,809	13,344,578
3056	1126	Cumberland Housing	C	1,322,996	1,272,988

Asset Values

Old Unit Number	New Unit Number	Unit	Code	Market Value of Assets	Actuarial Value of Assets
(1)	(2)	(3)	(4)	(5)	(6)
3057	1306	Lincoln Housing	B	1,671,469	1,608,288
3059	1016	Bristol Housing		2,080,847	2,002,193
3065	1036	Burrillville Housing	B	949,292	913,410
3066	1386	North Providence Housing	B	853,094	820,848
3067	1177	East Smithfield Water	C	966,717	930,176
3068	1227	Greenville Water	B	1,192,810	1,147,723
3069	1356	Newport Housing	C	6,656,191	6,404,592
3071	1566	Warren Housing	B	1,316,456	1,266,695
3072	1286	Johnston Housing		1,170,319	1,126,082
3077	1538	Tiverton Local 2670A	C	3,945,724	3,796,579
3078	1002 1003 1007 1009	Barrington COLA	C	33,203,800	31,948,721
3079	1096	Coventry Housing		1,061,188	1,021,076
3080	1496	South Kingstown Housing	C	366,372	352,524
3081	1403	N. RI Collaborative Adm. Services	C	2,793,426	2,687,837
3083	1616	West Warwick Housing	B	1,728,156	1,662,833
3084	1476	Smithfield Housing		434,570	418,143
3094	1478	Smithfield COLA	C	14,101,575	13,568,547
3096	1056	Central Falls Housing	C	2,098,964	2,019,624
3098	1293	Lime Rock Administrative Services		277,148	266,672
3099	1063	Central Falls Schools	C	14,529,501	13,980,297
3100	1023	Bristol/Warren Schools	B	16,256,754	15,642,261
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	20,988,173	20,194,836
3102	1712	Harrisville Fire District (ADMIN)	C	645,535	621,135
3103	1702	Albion Fire District (ADMIN)	C,5	128,397	123,544
3150	1159	East Greenwich Fire (ADMIN)	C	327,633	315,249
General Employee Units Subtotal				\$ 947,202,644	\$ 911,399,106
Police & Fire Units					
4016	1285	Johnston Fire	D	\$ 5,118,999	\$ 4,925,505
4029	1454	Richmond Police	6	1,395,577	1,342,825
4031	1474	Smithfield Police	C,D	12,623,444	12,146,287
4042	1555	Valley Falls Fire	D	3,300,510	3,175,754
4047	1395 1435	North Smithfield Voluntary Fire	B,D	6,596,698	6,347,348
4050	1155	East Greenwich Fire	C,D	11,094,796	10,675,421
4054	1154	East Greenwich Police	C,D	13,802,863	13,281,125
4055	1375	North Kingstown Fire	C,D	29,279,549	28,172,804
4056	1374	North Kingstown Police	C,D	19,194,740	18,469,194
4058	1385	North Providence Fire	D	30,891,114	29,723,454
4059	1008	Barrington Fire (25)	C	2,047,301	1,969,915
4060	1004	Barrington Police	C,D	8,195,051	7,885,284
4061	1005	Barrington Fire (20)	C,D	7,185,320	6,913,720
4062	1564 1565	Warren Police & Fire	C,D	9,272,018	8,921,543
4063	1494	South Kingstown Police	B,1	22,004,925	21,173,155

Asset Values

Old Unit Number	New Unit Number	Unit	Code	Market Value of Assets	Actuarial Value of Assets
(1)	(2)	(3)	(4)	(5)	(6)
4073	1464	Scituate Police	5	203,189	195,509
4076	1394	North Smithfield Police	C,D	8,844,423	8,510,111
4077	1534	Tiverton Fire	C,D	9,739,601	9,371,451
4082	1194	Foster Police	C,D	2,548,131	2,451,813
4085	1634	Woonsocket Police	C,D	34,642,410	33,332,954
4086	1084	Charlestown Police	C,D	8,268,107	7,955,579
4087	1264	Hopkinton Police	C,D,6	5,391,830	5,188,023
4088	1214	Glocester Police	C,D	5,685,081	5,470,189
4089	1604	West Greenwich Police/Rescue	C,D	3,506,756	3,374,204
4090	1034	Burrillville Police	C,D,6	9,050,199	8,708,108
4091	1148	Cumberland Rescue	C,D	5,466,673	5,260,037
4093	1635	Woonsocket Fire	C,D	40,863,988	39,319,360
4094	1015	Bristol Fire	D	279,011	268,465
4095	1135	Cumberland Hill Fire	C,D	3,984,097	3,833,502
4096	1014	Bristol Police	C,D	5,675,244	5,460,724
4098	1095	Coventry Fire	C,D	3,506,639	3,374,091
4099	1505	South Kingstown EMT	C,D	3,591,354	3,455,604
4101	1365	North Cumberland	C,D	4,443,208	4,275,258
4102	1045 1235 1525 1585	Central Coventry Fire	C,D	9,254,807	8,904,982
4103	1255	Hopkins Hill Fire	C,D	2,081,783	2,003,093
4104	1114	Cranston Police	C,D,4	30,930,926	29,761,760
4105	1115	Cranston Fire	C,D,4	51,145,398	49,212,141
4106	1125	Cumberland Fire	B,D	3,698,014	3,558,231
4107	1305	Lincoln Rescue	C	3,136,527	3,017,968
4108	1344	New Shoreham Police	B,D	1,101,779	1,060,132
4109	1324	Middletown Police & Fire	C,D	4,622,437	4,447,712
4110	1715	Harrisville Fire District	C,D	1,201,195	1,155,791
4111	1705	Albion Fire District	C	707,291	680,556
1284	1284	Johnston Police		227,254	218,664
1465	1465	Smithfield Fire	C	742,046	713,997
Police & Fire Units Subtotal				\$ 446,542,303	\$ 429,663,343
All MERS Units Total				\$ 1,393,744,947	\$ 1,341,062,449

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 2013 valuation.

3 - Closed unit.

4 - Historically, Cranston Fire and Police are contributing 10% due to special plan provision. 5 - This unit has no active members.

6 - Historically, Special plan provisions apply to this unit.

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 4b

Reconciliation of Market Assets by Unit

Old Unit Number	New Unit Number	Unit	Code (s)	Beginning of Year Account Balance	Current year prior period adjustments	Adjusted 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)	(13)	(14)
General Employee Units													
3002	1012 1019	Bristol	B	\$ 15,252,780	\$ (25,537)	\$ 15,227,243	\$ 91,724	\$ 700,353	\$ 8,387	\$ (1,352,322)	\$ (24,360)	\$ 2,234,938	\$ 16,885,963
3003	1032 1033	Burrillville	C	24,268,869	(40,633)	24,228,236	118,541	476,580	(45,810)	(1,330,779)	(400)	3,576,622	27,022,990
3004	1052	Central Falls		4,760,539	(7,971)	4,752,568	16,471	162,612	(28,883)	(524,689)	(43,209)	661,262	4,996,132
3005	1082	Charlestown	C	5,572,981	(9,331)	5,563,650	41,748	210,455	13,122	(222,362)	(671)	855,157	6,461,099
3007	1112 1113	Cranston	B	123,350,155	(206,524)	123,143,631	470,562	2,276,531	14,828	(8,297,085)	(233,149)	17,905,003	135,280,321
3008	1122 1123	Cumberland		20,687,710	(34,638)	20,653,072	84,940	1,125,835	190,787	(1,701,307)	(82,741)	3,092,175	23,362,761
3009	1152 1153	East Greenwich	C	7,351,364	(12,309)	7,339,055	20,619	59,487	(190,729)	(503,723)	0	1,025,820	7,750,529
3010	1162 1163	East Providence	B	58,170,267	(97,394)	58,072,873	314,668	3,440,709	(155,338)	(7,085,560)	(100,819)	8,311,640	62,798,173
3011	1183	Exeter/West Greenwich	B	7,787,050	(13,038)	7,774,012	52,046	292,720	(1,483)	(418,856)	0	1,174,358	8,872,797
3012	1192 1193	Foster		3,036,658	(5,084)	3,031,574	11,409	124,478	(18,760)	(184,948)	(21,498)	448,826	3,391,081
3013	1212 1213	Glocester	C	7,315,536	(12,249)	7,303,287	46,244	228,215	(4,808)	(417,040)	(5,349)	1,090,779	8,241,328
3014	1262	Hopkinton	C	4,500,313	(7,535)	4,492,778	33,423	106,729	0	(165,195)	(9,868)	680,024	5,137,891
3015	1272 1273	Jamestown	C	10,643,746	(17,821)	10,625,925	73,275	404,890	90,076	(571,898)	(2,928)	1,619,926	12,239,266
3016	1282 1283	Johnston	C	28,748,856	(48,134)	28,700,722	145,181	1,050,131	253,469	(2,742,557)	(54,516)	4,172,472	31,524,902
3017	1302 1303	Lincoln		1,391,118	(2,329)	1,388,789	9,159	102,118	212,009	(102,825)	0	245,483	1,854,733
3019	1322 1323	Middletown	C	15,119,691	(25,314)	15,094,377	113,925	664,994	0	(974,316)	0	2,272,763	17,171,743
3021	1352 1353 1354	Newport	B	43,105,883	(72,172)	43,033,711	225,375	2,240,214	120,460	(4,805,590)	(138,546)	6,204,858	46,880,482
3022	1342 1343	New Shoreham	B	5,711,209	(9,562)	5,701,647	41,678	168,351	(8,676)	(246,614)	(2,166)	862,522	6,516,742
3023	1372 1373	North Kingstown	C	41,880,465	(70,120)	41,810,345	220,066	1,737,697	(2,686)	(3,615,195)	(74,028)	6,113,419	46,189,618
3024	1382 1383	North Providence		26,329,276	(44,083)	26,285,193	68,030	482,264	(450,391)	(1,499,008)	(74,493)	3,784,882	28,596,477
3025	1392 1393	North Smithfield	B	12,881,549	(21,567)	12,859,982	74,952	193,061	(102,181)	(776,322)	0	1,868,596	14,118,088
3026	1412 1413	Pawtucket	C	85,099,270	(142,482)	84,956,788	374,482	2,748,725	112	(8,150,370)	(139,092)	12,171,653	91,962,298
3027	1515	Union Fire District		527,550	(883)	526,667	2,881	21,523	0	(13,404)	0	82,018	619,685
3029	1452	Richmond		1,725,710	(2,890)	1,722,820	9,676	96,455	152	(107,897)	0	262,563	1,983,769
3030	1462 1463	Scituate	B	9,522,154	(15,943)	9,506,211	52,942	382,765	(47,623)	(818,518)	(32,255)	1,379,543	10,423,065
3031	1472 1473	Smithfield	C	11,488,276	(19,235)	11,469,041	63,703	239,838	(62,377)	(805,346)	(29,967)	1,658,909	12,533,801
3032	1492 1493	South Kingstown	B	45,870,804	(76,801)	45,794,003	245,651	1,298,368	6,175	(2,683,163)	(30,323)	6,808,185	51,438,896
3033	1532 1533	Tiverton	C	11,612,693	(19,443)	11,593,250	67,392	129,321	24,574	(530,246)	0	1,721,360	13,005,651
3034	1562	Warren	C	4,527,217	(7,580)	4,519,637	40,521	270,622	0	(434,827)	(19,154)	667,657	5,044,456
3036	1622 1623	Westerly		152,701	(255)	152,446	0	183,142	0	(141,905)	0	29,546	223,229
3037	1602	West Greenwich	C	2,273,969	(3,808)	2,270,161	19,458	133,678	0	(270,626)	(224)	328,345	2,480,792
3039	1632 1633	Woonsocket	B	57,739,940	(96,674)	57,643,266	220,333	1,000,863	(75,208)	(4,528,150)	(113,196)	8,259,985	62,407,893
3040	1073	Charliu School District	C	14,931,096	(24,999)	14,906,097	108,193	555,047	(5,457)	(809,229)	(53,829)	2,242,536	16,943,358
3041	1203	Foster/Glocester	B	5,536,634	(9,270)	5,527,364	36,797	241,194	123,257	(339,748)	0	852,553	6,441,417
3042	1528	Tiogue Fire & Lighting	C,5	44,145	(74)	44,071	0	0	0	(1,870)	0	6,438	48,639
3043	1336	Narragansett Housing	C	434,842	(728)	434,114	3,570	8,238	0	(5,256)	0	67,222	507,888
3045	1098	Coventry Lighting District	C	1,165,169	(1,950)	1,163,219	768	(223)	0	(104,593)	0	161,571	1,220,742
3046	1242	Hope Valley Fire	C	500,462	(838)	499,624	2,801	7,608	0	(19)	0	77,800	587,814
3050	1156	East Greenwich Housing	C	1,109,848	(1,858)	1,107,990	12,989	48,837	0	(69,898)	0	167,786	1,267,704
3051	1116	Cranston Housing	C	4,304,264	(7,206)	4,297,058	22,465	82,036	0	(102,425)	0	655,810	4,954,944

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 4b

Reconciliation of Market Assets by Unit

Old Unit Number	New Unit Number	Unit	Code (s)	Beginning of Year Account Balance	Current year prior period adjustments	Adjusted 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)	(13)	(14)										
3052	1166	East Providence Housing	B	2,628,104.00	(4,401.00)	2,623,703.00	14,546	70,097	0	(211,636)	0	380,861	2,877,571										
3053	1416	Pawtucket Housing	B	12,381,495	(20,730)	12,360,765	52,852	0	3,963	(384,376)	0	1,835,605	13,868,809										
3056	1126	Cumberland Housing	C	1,177,668	(1,972)	1,175,696	10,848	36,395	15	(75,063)	0	175,105	1,322,996										
3057	1306	Lincoln Housing	B	1,496,881	(2,507)	1,494,374	7,509	53,566	0	(103,735)	(1,474)	221,229	1,671,469										
3059	1016	Bristol Housing	C	1,876,718	(3,142)	1,873,576	40	0	0	(68,179)	0	275,410	2,080,847										
3065	1036	Burrillville Housing	B	866,228	(1,450)	864,778	3,825	12,031	0	(56,985)	0	125,643	949,292										
3066	1386	North Providence Housing	B	778,490	(1,304)	777,186	5,333	60,801	0	(99,235)	(3,903)	112,912	853,094										
3067	1177	East Smithfield Water	C	891,073	(1,492)	889,581	3,855	3,120	0	(35,781)	(22,007)	127,949	966,717										
3068	1227	Greenville Water	B	1,064,629	(1,783)	1,062,846	5,633	2,197	0	(35,741)	0	157,875	1,192,810										
3069	1356	Newport Housing	C	6,016,238	(10,073)	6,006,165	30,828	290,928	0	(552,709)	0	880,979	6,656,191										
3071	1566	Warren Housing	B	1,216,806	(2,037)	1,214,769	5,466	18,450	31,094	(100,787)	(26,775)	174,239	1,316,456										
3072	1286	Johnston Housing	C	1,069,387	(1,790)	1,067,597	4,181	43,891	(31,094)	(69,153)	0	154,897	1,170,319										
3077	1538	Tiverton Local 2670A	C	3,528,322	(5,907)	3,522,415	18,161	89,438	0	(206,525)	0	522,235	3,945,724										
3078	1002 1003 1007 1009	Barrington COLA	C	29,769,366	(49,842)	29,719,524	146,420	579,790	176,568	(1,780,670)	(32,515)	4,394,683	33,203,800										
3079	1096	Coventry Housing	C	933,427	(1,563)	931,864	5,869	35,745	0	(52,744)	0	140,454	1,061,188										
3080	1496	South Kingstown Housing	C	308,289	(516)	307,773	3,564	6,556	0	(12)	0	48,491	366,372										
3081	1403	N. RI Collaborative Adm. Services	C	2,539,943	(4,253)	2,535,690	17,434	55,813	0	(161,619)	(23,615)	369,723	2,793,426										
3083	1616	West Warwick Housing	B	1,514,031	(2,535)	1,511,496	9,320	51,581	0	(72,970)	0	228,729	1,728,156										
3084	1476	Smithfield Housing	C	372,873	(624)	372,249	1,419	3,399	0	(14)	0	57,517	434,570										
3094	1478	Smithfield COLA	C	12,584,554	(21,070)	12,563,484	66,806	289,607	0	(675,384)	(9,350)	1,866,412	14,101,575										
3096	1056	Central Falls Housing	C	1,888,665	(3,162)	1,885,503	23,168	92,559	3,677	(171,121)	(12,630)	277,808	2,098,964										
3098	1293	Lime Rock Administrative Services	C	245,487	(411)	245,076	858	9,082	0	(14,550)	0	36,682	277,148										
3099	1063	Central Falls Schools	C	13,097,291	(21,928)	13,075,363	66,795	244,755	0	(692,924)	(87,537)	1,923,049	14,529,501										
3100	1023	Bristol/Warren Schools	B	14,795,245	(24,772)	14,770,473	83,890	611,556	0	(1,330,707)	(30,118)	2,151,660	16,256,754										
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	18,639,043	(31,207)	18,607,836	111,688	322,223	3,952	(833,355)	(2,058)	2,777,887	20,988,173										
3102	1712	Harrisville Fire District (ADMIN)	C	544,571	(911)	543,660	4,770	11,687	0	(21)	0	85,439	645,535										
3103	1702	Albion Fire District (ADMIN)	C,5	104,188	(175)	104,013	0	7,394	0	(4)	0	16,994	128,397										
3150	1159	East Greenwich Fire (ADMIN)	C	300,317	(503)	299,814	747	4,970	0	(21,263)	0	43,365	327,633										
General Employee Units Subtotal				\$	859,062,088	\$	(1,438,322)	\$	857,623,766	\$	4,264,483	\$	26,704,092	\$	45,173	\$	(65,262,944)	\$	(1,538,763)	\$	125,366,837	\$	947,202,644
Police & Fire Units																							
4016	1285	Johnston Fire	D	\$	4,012,559	\$	(6,718)	\$	4,005,841	\$	231,191	\$	276,573	\$	-	\$	(72,130)	\$	0	\$	677,524	\$	5,118,999
4029	1454	Richmond Police	6	1,158,774	(1,940)	1,156,834	45,131	57,398	15,442	(26,438)	(37,502)	184,712	1,395,577										
4031	1474	Smithfield Police	C,D	10,824,599	(18,124)	10,806,475	227,478	133,929	0	(215,212)	0	1,670,774	12,623,444										
4042	1555	Valley Falls Fire	D	2,994,942	(5,014)	2,989,928	52,114	102,119	0	(251,184)	(29,305)	436,838	3,300,510										
4047	1395 1435	North Smithfield Voluntary Fire	B,D	5,760,353	(9,645)	5,750,708	97,587	164,638	2,562	(291,902)	0	873,105	6,596,698										
4050	1155	East Greenwich Fire	C,D	10,060,587	(16,844)	10,043,743	176,593	455,828	10,443	(1,029,552)	(30,709)	1,468,450	11,094,796										
4054	1154	East Greenwich Police	C,D	12,485,683	(20,905)	12,464,778	164,093	410,654	0	(1,063,538)	0	1,826,876	13,802,863										
4055	1375	North Kingstown Fire	C,D	26,495,327	(44,361)	26,450,966	288,755	758,704	11,956	(2,065,236)	(40,884)	3,875,288	29,279,549										
4056	1374	North Kingstown Police	C,D	17,177,839	(28,761)	17,149,078	225,739	644,767	1,263	(1,366,622)	0	2,540,515	19,194,740										

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 4b

Reconciliation of Market Assets by Unit

Old Unit Number	New Unit Number	Unit	Code (s)	Beginning of Year Account Balance	Current year prior period adjustments	Adjusted 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)	(13)	(14)
4058	1385	North Providence Fire	D	27,655,386	(46,304)	27,609,082	362,913	912,444	6,211	(2,088,125)	0	4,088,589	30,891,114
4059	1008	Barrington Fire (25)	C	1,694,467	(2,837)	1,691,630	95,814	106,355	0	(63,636)	(53,831)	270,969	2,047,301
4060	1004	Barrington Police	C.D	7,298,548	(12,220)	7,286,328	116,417	384,906	2,220	(679,475)	0	1,084,655	8,195,051
4061	1005	Barrington Fire (20)	C.D	6,991,828	(11,707)	6,980,121	11,295	45,738	0	(802,846)	0	951,012	7,185,320
4062	1564 1565	Warren Police & Fire	C,D	8,211,259	(13,748)	8,197,511	111,691	343,729	0	(608,108)	0	1,227,195	9,272,018
4063	1494	South Kingstown Police	B,1	20,030,062	(33,536)	19,996,526	249,628	468,675	8,336	(1,630,699)	0	2,912,459	22,004,925
4073	1464	Scituate Police	5	180,213	(302)	179,911	0	0	0	(3,615)	0	26,893	203,189
4076	1394	North Smithfield Police	C,D	8,055,169	(13,487)	8,041,682	104,549	182,437	0	(603,684)	(51,163)	1,170,602	8,844,423
4077	1534	Tiverton Fire	C,D	8,821,400	(14,769)	8,806,631	133,465	164,296	(154)	(585,444)	(68,276)	1,289,083	9,739,601
4082	1194	Foster Police	C,D	2,429,196	(4,067)	2,425,129	31,684	46,299	5,471	(227,712)	(69,998)	337,258	2,548,131
4085	1634	Woonsocket Police	C,D	31,166,718	(52,182)	31,114,536	413,389	948,214	(36,256)	(2,361,588)	(20,975)	4,585,090	34,642,410
4086	1084	Charlestown Police	C,D	7,214,069	(12,078)	7,201,991	111,941	274,357	6,464	(420,969)	0	1,094,323	8,268,107
4087	1264	Hopkinton Police	C,D,6	4,983,688	(8,344)	4,975,344	70,497	98,125	0	(465,771)	0	713,635	5,391,830
4088	1214	Glocester Police	C,D	4,968,434	(8,318)	4,960,116	77,420	150,971	480	(246,452)	(9,902)	752,448	5,685,081
4089	1604	West Greenwich Police/Rescue	C,D	3,071,055	(5,142)	3,065,913	63,821	142,798	0	(208,158)	(21,754)	464,136	3,506,756
4090	1034	Burrillville Police	C,D,6	8,121,291	(13,597)	8,107,694	98,864	159,913	0	(514,109)	0	1,197,837	9,050,199
4091	1148	Cumberland Rescue	C,D	4,718,372	(7,899)	4,710,473	72,988	65,507	4,653	(110,488)	0	723,540	5,466,673
4093	1635	Woonsocket Fire	C,D	35,467,887	(59,383)	35,408,504	550,936	516,516	0	(1,020,514)	0	5,408,546	40,863,988
4094	1015	Bristol Fire	D	238,103	(398)	237,705	6,717	15,026	0	(17,366)	0	36,929	279,011
4095	1135	Cumberland Hill Fire	C,D	3,696,987	(6,190)	3,690,797	54,774	74,288	0	(363,076)	0	527,314	3,984,097
4096	1014	Bristol Police	C,D	4,737,217	(7,931)	4,729,286	171,286	84,143	0	(36,284)	(24,333)	751,146	5,675,244
4098	1095	Coventry Fire	C,D	2,995,106	(5,014)	2,990,092	81,724	175,293	(10,088)	(194,503)	0	464,121	3,506,639
4099	1505	South Kingstown EMT	C,D	3,097,480	(5,186)	3,092,294	63,498	33,018	154	(59,227)	(13,717)	475,334	3,591,354
4101	1365	North Cumberland	C,D	3,839,700	(6,429)	3,833,271	56,475	105,004	68,883	(175,260)	(33,246)	588,081	4,443,208
4102	1045 1235 1525 1585	Central Coventry Fire	C,D	8,008,442	(13,409)	7,995,033	203,837	374,043	(22,092)	(468,044)	(52,888)	1,224,918	9,254,807
4103	1255	Hopkins Hill Fire	C,D	1,693,919	(2,836)	1,691,083	54,816	81,247	0	(20,897)	0	275,534	2,081,783
4104	1114	Cranston Police	C,D,4	26,167,619	(43,812)	26,123,807	619,646	687,959	0	(594,343)	0	4,093,857	30,930,926
4105	1115	Cranston Fire	C,D,4	42,952,359	(71,915)	42,880,444	930,109	1,006,080	4,145	(444,721)	0	6,769,341	51,145,398
4106	1125	Cumberland Fire	B,D	3,297,141	(5,521)	3,291,620	55,515	103,330	0	(241,902)	0	489,451	3,698,014
4107	1305	Lincoln Rescue	C	2,660,248	(4,454)	2,655,794	73,273	144,073	0	(149,368)	(2,379)	415,134	3,136,527
4108	1344	New Shoreham Police	B,D	950,606	(1,592)	949,014	22,603	52,664	9,052	(77,381)	0	145,827	1,101,779
4109	1324	Middletown Police & Fire	C,D	3,739,834	(6,262)	3,733,572	224,939	100,942	3,317	(151)	(51,984)	611,802	4,622,437
4110	1715	Harrisville Fire District	C,D	992,301	(1,661)	990,640	28,265	23,346	0	(39)	0	158,983	1,201,195
4111	1705	Albion Fire District	C	577,247	(966)	576,281	17,055	43,175	0	(22,833)	0	93,613	707,291
1284	1284	Johnston Police		88,004	(147)	87,857	35,823	35,823	37,680	(7)	0	30,078	227,254
1465	1465	Smithfield Fire	C	546,749	(915)	545,834	37,684	37,684	22,656	(24)	0	98,212	742,046
		Police & Fire Units Subtotal		\$ 392,328,767	\$ (656,870)	\$ 391,671,897	\$ 6,924,032	\$ 11,193,028	\$ 152,798	\$ (21,888,633)	\$ (612,846)	\$ 59,102,027	\$ 446,542,303
		All MERS Units Total		\$ 1,251,390,855	\$ (2,095,192)	\$ 1,249,295,663	\$ 11,188,515	\$ 37,897,120	\$ 197,971	\$ (87,151,577)	\$ (2,151,609)	\$ 184,468,864	\$ 1,393,744,947

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 2013 valuation.

3 - Closed unit.

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

5 - This unit has no active members.

6 - Historically, Special plan provisions apply to this unit.

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Table 5

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				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)	(10)	
General Employee Units												
3002	1012 1019	Bristol	14.95%	0.15%	0.06%	0.01%	(0.24%)	(0.20%)	-	0.07%	14.80%	
3003	1032 1033	Burrillville	8.52%	(0.46%)	0.01%	(0.91%)	(0.29%)	0.00%	-	0.11%	6.98%	
3004	1052	Central Falls	13.62%	0.00%	1.32%	(1.69%)	(0.08%)	(0.01%)	-	0.00%	13.16%	
3005	1082	Charlestown	9.86%	(0.38%)	(0.03%)	(1.14%)	(0.20%)	(0.29%)	-	0.04%	7.86%	
3007	1112 1113	Cranston	9.86%	(0.45%)	0.05%	(0.87%)	(0.29%)	(0.05%)	-	0.14%	8.39%	
3008	1122 1123	Cumberland	13.64%	0.12%	(0.05%)	(0.27%)	(0.20%)	0.08%	-	0.00%	13.32%	
3009	1152 1153	East Greenwich	5.31%	0.09%	(0.06%)	(0.24%)	(0.24%)	(0.60%)	-	0.10%	4.36%	
3010	1162 1163	East Providence	25.19%	0.00%	0.15%	(0.75%)	(0.19%)	0.66%	-	0.11%	25.17%	
3011	1183	Exeter/West Greenwich	12.36%	(0.89%)	0.20%	(0.45%)	(0.21%)	0.50%	-	0.08%	11.59%	
3012	1192 1193	Foster	11.83%	(0.40%)	0.13%	(1.31%)	(0.14%)	0.35%	-	0.00%	10.46%	
3013	1212 1213	Glocester	9.77%	(0.53%)	0.12%	0.32%	(0.25%)	0.18%	-	0.07%	9.68%	
3014	1262	Hopkinton	4.77%	0.13%	0.05%	(1.54%)	(0.08%)	(0.30%)	-	0.03%	3.06%	
3015	1272 1273	Jamestown	10.69%	(0.19%)	0.07%	(0.40%)	(0.25%)	(0.33%)	-	0.07%	9.66%	
3016	1282 1283	Johnston	16.09%	(0.34%)	0.67%	(0.58%)	(0.21%)	0.21%	-	0.09%	15.93%	
3017	1302 1303	Lincoln	12.70%	(0.12%)	(0.18%)	0.16%	(0.25%)	(0.40%)	-	0.00%	11.91%	
3019	1322 1323	Middletown	10.82%	(0.06%)	0.18%	(0.22%)	(0.22%)	(0.24%)	-	0.06%	10.32%	
3021	1352 1353 1354	Newport	21.86%	(0.14%)	(0.03%)	(0.58%)	(0.20%)	0.63%	-	0.11%	21.65%	
3022	1342 1343	New Shoreham	8.01%	(0.34%)	0.02%	(0.59%)	(0.24%)	0.19%	-	0.05%	7.10%	
3023	1372 1373	North Kingstown	17.44%	(0.27%)	(0.06%)	(0.45%)	(0.24%)	0.41%	-	0.08%	16.91%	
3024	1382 1383	North Providence	6.82%	(0.31%)	(0.11%)	(0.31%)	(0.16%)	(0.53%)	-	0.00%	5.40%	
3025	1392 1393	North Smithfield	6.44%	(0.44%)	(0.17%)	(0.19%)	(0.17%)	(0.37%)	-	0.09%	5.19%	
3026	1412 1413	Pawtucket	16.91%	(0.52%)	0.24%	(0.29%)	(0.24%)	(0.06%)	-	0.09%	16.13%	
3027	1515	Union Fire District	7.74%	(0.04%)	(0.02%)	(0.23%)	(0.19%)	0.19%	-	0.00%	7.45%	
3029	1452	Richmond	10.00%	(0.16%)	0.07%	(1.18%)	(0.13%)	0.07%	-	0.00%	8.67%	
3030	1462 1463	Scituate	14.71%	(0.37%)	0.33%	(1.20%)	(0.19%)	0.13%	-	0.07%	13.48%	
3031	1472 1473	Smithfield	8.47%	(0.43%)	0.00%	(0.77%)	(0.21%)	(0.24%)	-	0.04%	6.86%	
3032	1492 1493	South Kingstown	11.25%	(0.46%)	0.18%	(0.43%)	(0.27%)	0.21%	-	0.09%	10.57%	
3033	1532 1533	Tiverton	3.19%	0.12%	0.33%	(1.38%)	(0.09%)	(0.16%)	-	0.05%	2.06%	
3034	1562	Warren	12.68%	(0.03%)	(0.13%)	(0.90%)	(0.13%)	(0.28%)	-	0.02%	11.23%	

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				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)	(10)	
3037	1602	West Greenwich	16.50%	(0.05%)	(0.07%)	(0.67%)	(0.14%)	(0.36%)	-	0.06%	15.27%	
3039	1632 1633	Woonsocket	10.27%	(0.29%)	0.25%	0.04%	(0.31%)	(0.08%)	-	0.17%	10.05%	
3040	1073	Chariho School District	10.73%	(0.49%)	0.12%	0.26%	(0.22%)	(0.19%)	-	0.05%	10.26%	
3041	1203	Foster/Glocester	11.75%	(0.41%)	(0.05%)	(1.08%)	(0.25%)	(0.01%)	-	0.08%	10.03%	
3043	1336	Narragansett Housing	5.71%	(0.56%)	(0.07%)	0.19%	(0.17%)	(0.85%)	-	0.01%	4.26%	
3045	1098	Coventry Lighting District	(62.46%)	1.13%	1.96%	4.12%	1.15%	(3.81%)	-	0.00%	(57.91%)	
3046	1242	Hope Valley Fire	2.83%	(0.27%)	(0.09%)	(1.55%)	(0.09%)	(0.57%)	-	0.00%	0.26%	
3050	1156	East Greenwich Housing	10.22%	0.22%	(0.64%)	(0.80%)	(0.16%)	(0.30%)	-	0.02%	8.56%	
3051	1116	Cranston Housing	7.45%	(0.02%)	0.02%	(1.06%)	(0.25%)	0.38%	-	0.03%	6.55%	
3052	1166	East Providence Housing	11.54%	(0.14%)	(0.04%)	1.46%	(0.28%)	(0.03%)	-	0.13%	12.64%	
3053	1416	Pawtucket Housing	(1.09%)	(0.36%)	(0.82%)	(0.04%)	0.01%	(1.12%)	-	0.00%	(3.42%)	
3056	1126	Cumberland Housing	7.36%	(0.25%)	0.01%	(0.04%)	(0.15%)	(0.26%)	-	0.05%	6.72%	
3057	1306	Lincoln Housing	7.44%	(0.14%)	0.07%	(0.89%)	(0.59%)	(0.05%)	-	0.08%	5.92%	
3059	1016	Bristol Housing	(1.24%)	0.55%	(0.12%)	(2.25%)	0.02%	(0.12%)	-	0.00%	(3.16%)	
3065	1036	Burrillville Housing	7.58%	(0.22%)	0.01%	(0.33%)	(0.26%)	0.36%	-	0.13%	7.27%	
3066	1386	North Providence Housing	27.46%	(0.29%)	(0.68%)	0.29%	(0.18%)	1.87%	-	0.17%	28.64%	
3067	1177	East Smithfield Water	2.19%	0.26%	0.15%	0.20%	(0.10%)	(0.74%)	-	0.11%	2.07%	
3068	1227	Greenville Water	1.96%	(0.18%)	(0.05%)	0.09%	(0.09%)	(1.12%)	-	0.07%	0.68%	
3069	1356	Newport Housing	18.33%	(0.01%)	0.07%	(0.54%)	(0.27%)	0.27%	-	0.06%	17.91%	
3071	1566	Warren Housing	6.03%	(0.10%)	(0.27%)	(3.87%)	(0.14%)	(0.11%)	-	0.17%	1.71%	
3072	1286	Johnston Housing	11.52%	(0.27%)	0.49%	0.05%	(0.15%)	(0.25%)	-	0.00%	11.39%	
3077	1538	Tiverton Local 2670A	8.52%	(0.08%)	0.03%	0.68%	(0.31%)	0.20%	-	0.12%	9.16%	
3078	1002 1003 1007 1009	Barrington COLA	8.48%	(0.25%)	0.06%	0.28%	(0.30%)	(0.17%)	-	0.08%	8.18%	
3079	1096	Coventry Housing	8.09%	(0.16%)	0.01%	(0.17%)	(0.14%)	(0.73%)	-	0.00%	6.90%	
3080	1496	South Kingstown Housing	2.59%	0.30%	0.03%	(0.01%)	(0.02%)	(0.08%)	-	0.00%	2.81%	
3081	1403	N. RI Collaborative Adm. Services	8.94%	(0.25%)	0.12%	2.59%	(0.29%)	(0.65%)	-	0.09%	10.55%	
3083	1616	West Warwick Housing	9.42%	(1.22%)	0.02%	(0.67%)	(0.21%)	0.32%	-	0.07%	7.73%	
3084	1476	Smithfield Housing	2.26%	(1.61%)	(0.97%)	0.04%	(0.04%)	(0.93%)	-	0.00%	(1.25%)	
3094	1478	Smithfield COLA	9.73%	(0.23%)	0.06%	0.09%	(0.27%)	(0.56%)	-	0.10%	8.92%	

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(1)	(2)	(3)	(4)	(5)	(6)	(5)	(6)	(7)	(8)	(9)	(10)	
3096	1056	Central Falls Housing	11.14%	0.79%	(0.46%)	0.15%	(0.14%)	(0.73%)	-	0.04%	10.79%	
3098	1293	Lime Rock Administrative Services	13.25%	(0.14%)	(0.14%)	0.15%	(0.22%)	1.03%	-	0.00%	13.93%	
3099	1063	Central Falls Schools	8.00%	(0.45%)	0.21%	(0.57%)	(0.24%)	(0.27%)	-	0.09%	6.77%	
3100	1023	Bristol/Warren Schools	17.37%	(0.75%)	0.57%	(2.43%)	(0.13%)	0.76%	-	0.08%	15.47%	
3101	1157 1158	Town of E. Greenwich-COLA-NCE	5.31%	0.09%	(0.06%)	(0.24%)	(0.24%)	(0.60%)	-	0.10%	4.36%	
3102	1712	Harrisville Fire District (ADMIN)	7.62%	(0.27%)	0.19%	(2.20%)	(0.16%)	(1.56%)	-	0.01%	3.63%	
3150	1159	East Greenwich Fire (ADMIN)	8.99%	(1.90%)	2.11%	0.50%	(0.42%)	(1.04%)	-	0.00%	8.24%	
General Employee Units Averages			12.74%	(0.28%)	0.18%	(0.53%)	(0.15%)	0.02%	-	0.08%	12.06%	
Police & Fire Units												
4016	4016	1285 Johnston Fire	9.24%	(0.29%)	0.04%	(0.35%)	(0.16%)	(0.12%)	-	0.00%	8.36%	
4029	4029	1454 Richmond Police	12.37%	(0.69%)	0.36%	(0.65%)	(0.16%)	(0.29%)	-	0.00%	10.94%	
4031	4031	1474 Smithfield Police	6.93%	(0.05%)	(0.01%)	(0.06%)	(0.31%)	(0.32%)	-	0.04%	6.22%	
4042	4042	1555 Valley Falls Fire	16.65%	(0.72%)	0.40%	1.10%	(0.26%)	0.03%	-	0.00%	17.20%	
4047	4047	1395 1435 North Smithfield Voluntary Fire	17.15%	(0.09%)	(0.26%)	(0.42%)	(0.38%)	0.22%	-	0.16%	16.38%	
4050	4050	1155 East Greenwich Fire	26.48%	(0.16%)	1.01%	0.22%	(0.30%)	0.42%	-	0.15%	27.82%	
4054	4054	1154 East Greenwich Police	27.93%	(0.01%)	(0.18%)	(0.14%)	(0.39%)	0.42%	-	0.09%	27.72%	
4055	4055	1375 North Kingstown Fire	30.04%	(2.18%)	1.41%	(0.76%)	(0.36%)	0.48%	-	0.12%	28.75%	
4056	4056	1374 North Kingstown Police	25.44%	0.46%	0.05%	(0.70%)	(0.40%)	0.29%	-	0.14%	25.28%	
4058	4058	1385 North Providence Fire	23.56%	(0.39%)	0.49%	0.22%	(0.38%)	0.32%	-	0.00%	23.82%	
4059	4059	1008 Barrington Fire (25)	9.02%	0.00%	(0.03%)	(0.90%)	(0.17%)	(0.18%)	-	0.02%	7.76%	
4060	4060	1004 Barrington Police	29.80%	(0.42%)	0.76%	(0.05%)	(0.36%)	0.41%	-	0.11%	30.25%	
4062	4062	1564 1565 Warren Police & Fire	27.86%	(0.60%)	0.83%	(0.75%)	(0.37%)	0.39%	-	0.13%	27.49%	
4063	4063	1494 South Kingstown Police	24.71%	0.02%	(0.60%)	(0.22%)	(0.40%)	0.30%	-	0.15%	23.96%	
4076	4076	1394 North Smithfield Police	21.79%	0.50%	(1.95%)	(0.76%)	(0.34%)	0.22%	-	0.10%	19.56%	
4077	4077	1534 Tiverton Fire	14.13%	(0.21%)	0.42%	0.59%	(0.34%)	(0.04%)	-	0.15%	14.70%	
4082	4082	1194 Foster Police	32.58%	(0.04%)	0.69%	(8.87%)	0.11%	0.62%	-	0.24%	25.33%	
4085	4085	1634 Woonsocket Police	26.08%	(0.11%)	1.11%	0.23%	(0.43%)	0.37%	-	0.11%	27.36%	
4086	4086	1084 Charlestown Police	23.45%	(0.33%)	(0.26%)	0.83%	(0.45%)	0.25%	-	0.11%	23.60%	

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(1)	(2)	(3)	(4)	(5)	(6)	(5)	(6)	(7)	(8)	(9)	(10)	
4087	4087	1264	Hopkinton Police	29.40%	0.01%	(1.33%)	1.30%	(0.35%)	0.43%	-	0.15%	29.61%
4088	4088	1214	Glocester Police	17.89%	(1.40%)	0.34%	(0.23%)	(0.37%)	0.11%	-	0.17%	16.51%
4089	4089	1604	West Greenwich Police/Rescue	22.45%	(0.09%)	(0.79%)	(0.20%)	(0.29%)	0.28%	-	0.08%	21.44%
4090	4090	1034	Burrillville Police	25.65%	(1.66%)	(0.10%)	(3.14%)	(0.30%)	0.31%	-	0.10%	20.86%
4091	4091	1148	Cumberland Rescue	11.12%	(0.44%)	(0.02%)	(1.07%)	(0.40%)	(0.05%)	-	0.12%	9.26%
4093	4093	1635	Woonsocket Fire	11.28%	0.06%	0.03%	(0.87%)	(0.42%)	(0.10%)	-	0.09%	10.07%
4094	4094	1015	Bristol Fire	24.92%	(0.32%)	(4.85%)	(1.38%)	(0.19%)	0.66%	-	0.00%	18.84%
4095	4095	1135	Cumberland Hill Fire	28.57%	0.05%	(1.27%)	0.22%	(0.27%)	0.26%	-	0.16%	27.72%
4096	4096	1014	Bristol Police	5.84%	(0.28%)	(0.06%)	(0.44%)	(0.11%)	(0.29%)	-	0.03%	4.69%
4098	4098	1095	Coventry Fire	21.46%	(0.73%)	0.26%	0.76%	(0.29%)	0.19%	-	0.07%	21.72%
4099	4099	1505	South Kingstown EMT	5.34%	(0.33%)	(0.08%)	(0.47%)	(0.17%)	(0.20%)	-	0.08%	4.17%
4101	4101	1365	North Cumberland	21.05%	0.24%	0.72%	0.57%	(0.52%)	0.29%	-	0.08%	22.43%
4102	4102	045 1235 1525 1585	Central Coventry Fire	16.52%	(0.21%)	0.84%	0.62%	(0.31%)	0.16%	-	0.07%	17.69%
4103	4103	1255	Hopkins Hill Fire	13.92%	0.00%	(0.25%)	0.34%	(0.32%)	0.09%	-	0.01%	13.79%
4104	4104	1114	Cranston Police	9.82%	(0.66%)	0.12%	0.69%	(0.34%)	(0.29%)	-	0.06%	9.40%
4105	4105	1115	Cranston Fire	8.15%	0.53%	0.23%	(1.00%)	(0.30%)	(0.24%)	-	0.04%	7.41%
4106	4106	1125	Cumberland Fire	23.37%	0.75%	(0.36%)	(0.43%)	(0.36%)	0.30%	-	0.10%	23.37%
4107	4107	1305	Lincoln Rescue	18.07%	(0.19%)	0.22%	(0.35%)	(0.28%)	0.19%	-	0.06%	17.72%
4108	4108	1344	New Shoreham Police	23.45%	0.18%	(0.15%)	(0.35%)	(0.34%)	0.32%	-	0.18%	23.29%
4109	4109	1324	Middletown Police & Fire	6.40%	(0.03%)	0.05%	(0.22%)	(0.08%)	(0.10%)	-	0.01%	6.03%
4110	4110	1715	Harrisville Fire District	7.87%	(0.64%)	(0.12%)	(0.86%)	(0.25%)	(0.07%)	-	0.03%	5.96%
4111	4111	1705	Albion Fire District	17.45%	2.88%	(0.81%)	(0.48%)	(0.39%)	0.13%	-	0.09%	18.87%
1284	1284	1284	Johnston Police	8.98%	0.05%	(0.10%)	(0.54%)	(0.13%)	0.12%	-	0.00%	8.38%
1465	1465	1465	Smithfield Fire	10.31%	(0.01%)	(0.08%)	(1.35%)	(0.21%)	0.21%	-	0.02%	8.89%
Police & Fire Units Averages				16.73%	(0.25%)	0.09%	(0.14%)	(0.43%)	0.07%	-	0.08%	16.15%
All MERS Units Averages				13.88%	(0.27%)	0.18%	(0.44%)	(0.23%)	0.03%	-	0.08%	13.23%

Units with no active members are excluded from this exhibit

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

	<u>Year Ending June 30, 2014</u>					
1. Market value of assets at beginning of year (prior to adjustments)	\$ 1,251,390,855					
2. Net new investments						
a. Contributions	\$ 49,283,606					
b. Benefits and refunds paid	<u>(89,303,186)</u>					
c. Subtotal	(40,019,580)					
3. Market value of assets at end of year	\$ 1,393,744,947					
4. Net earnings (3-1-2) (includes misc revenues)	\$ 182,373,672					
5. Assumed investment return rate for fiscal year	7.50%					
6. Expected return	\$ 92,353,580					
7. Excess return (4-6)	\$ 90,020,092					
8. Development of amounts to be recognized as of June 30, 2014:						
Fiscal	of Excess (Shortfall)					
Year	of Investment	Offsetting of	Net Deferrals	Years	Recognized for	Remaining after
End	Income*	Gains/(Losses)	Remaining	Remainin	this valuation	this valuation
	(1)	(2)	(3) = (1) + (2)	g	(5) = (3) / (4)	(6) = (3) - (5)
				(4)		
2010	\$ 0	\$ 0	\$ 0	1	\$ 0	\$ 0
2011	0	0	0	2	0	0
2012	(24,166,969)	24,166,969	0	3	0	0
2013	0	0	0	4	0	0
2014	<u>90,020,092</u>	<u>(24,166,969)</u>	<u>65,853,123</u>	5	<u>13,170,625</u>	<u>52,682,498</u>
Total	\$ 65,853,123	\$ 0	\$ 65,853,123		\$ 13,170,625	\$ 52,682,498
9. Actuarial value of assets as of June 30, 2014 (Item 3 - Item 8)	\$ 1,341,062,449					
10. Ratio of actuarial value to market value						96.2%

*Values of \$0 result from the beginning balance being offset by future gains or losses in the opposite direction.

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%
2010	13.7%	1.1%
2011	19.5%	2.7%
2012	1.5%	4.7%
2013	11.0%	6.3%
2014	14.8%	8.4%
Average Returns:		
Last 5 Years	11.9%	4.6%
Last 10 Years	6.9%	5.8%
Since 1995	7.6%	7.2%

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 (9)	UAAL as % of Payroll (7)/(9)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
General Employee Units									
3002	1012 1019	Bristol	B	16,247,687	21,870,147	5,622,460	74.3%	4,565,961	123.1%
3003	1032 1033	Burrillville	C	26,001,541	25,900,907	(100,634)	100.4%	5,777,438	(1.7%)
3004	1052	Central Falls		4,807,282	6,825,966	2,018,684	70.4%	1,701,834	118.6%
3005	1082	Charlestown	C	6,216,874	6,632,612	415,738	93.7%	2,069,777	20.1%
3007	1112 1113	Cranston	B	130,166,828	133,108,789	2,941,961	97.8%	23,500,348	12.5%
3008	1122 1123	Cumberland		22,479,666	30,394,440	7,914,774	74.0%	8,553,260	92.5%
3009	1152 1153	East Greenwich	C	7,457,565	6,302,053	(1,155,512)	118.3%	987,197	(117.0%)
3010	1162 1163	East Providence	B	60,424,450	100,882,418	40,457,968	59.9%	15,782,796	256.3%
3011	1183	Exeter/West Greenwich	B	8,537,412	9,923,091	1,385,679	86.0%	2,490,667	55.6%
3012	1192 1193	Foster		3,262,901	3,706,569	443,668	88.0%	1,096,774	40.5%
3013	1212 1213	Glocester	C	7,929,812	8,886,976	957,164	89.2%	2,586,789	37.0%
3014	1262	Hopkinton	C	4,943,683	3,909,290	(1,034,393)	126.5%	1,632,535	(63.4%)
3015	1272 1273	Jamestown	C	11,776,631	13,284,231	1,507,600	88.7%	3,625,078	41.6%
3016	1282 1283	Johnston	C	30,333,285	40,174,288	9,841,003	75.5%	7,622,797	129.1%
3017	1302 1303	Lincoln		1,784,625	2,305,505	520,880	77.4%	969,193	53.7%
3019	1322 1323	Middletown	C	16,522,664	19,723,766	3,201,102	83.8%	5,465,825	58.6%
3021	352 1353 1354	Newport	B	45,108,436	69,417,539	24,309,103	65.0%	11,605,398	209.5%
3022	1342 1343	New Shoreham	B	6,270,414	6,278,607	8,193	99.9%	2,086,002	0.4%
3023	1372 1373	North Kingstown	C	44,443,685	59,509,832	15,066,147	74.7%	10,951,978	137.6%
3024	1382 1383	North Providence		27,515,552	25,887,431	(1,628,121)	106.3%	6,647,342	(24.5%)
3025	1392 1393	North Smithfield	B	13,584,435	12,504,832	(1,079,603)	108.6%	3,180,020	(33.9%)
3026	1412 1413	Pawtucket	C	88,486,193	114,470,849	25,984,656	77.3%	19,062,092	136.3%
3027	1515	Union Fire District		596,262	622,518	26,256	95.8%	277,395	9.5%
3029	1452	Richmond		1,908,784	2,200,635	291,851	86.7%	1,010,342	28.9%
3030	1462 1463	Scituate	B	10,029,081	12,544,675	2,515,594	79.9%	2,670,386	94.2%
3031	1472 1473	Smithfield	C	12,060,033	11,998,678	(61,355)	100.5%	3,237,657	(1.9%)
3032	1492 1493	South Kingstown	B	49,494,545	54,706,378	5,211,833	90.5%	11,936,167	43.7%
3033	1532 1533	Tiverton	C	12,514,047	10,131,590	(2,382,457)	123.5%	3,287,638	(72.5%)
3034	1562	Warren	C	4,853,780	6,463,790	1,610,010	75.1%	1,968,626	81.8%

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	UAAL as % of Payroll (7)/(9)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3036	1622 1623	Westerly		214,791	1,002,383	787,592	21.4%	0	-
3037	1602	West Greenwich	C	2,387,020	3,661,517	1,274,497	65.2%	982,682	129.7%
3039	1632 1633	Woonsocket	B	60,048,923	64,378,045	4,329,122	93.3%	10,354,456	41.8%
3040	1073	Chariho School District	C	16,302,912	19,154,440	2,851,528	85.1%	5,401,986	52.8%
3041	1203	Foster/Glocester	B	6,197,936	6,831,562	633,626	90.7%	1,814,266	34.9%
3042	1528	Tiogou Fire & Lighting	C,5	46,800	24,530	(22,270)	190.8%	0	-
3043	1336	Narragansett Housing	C	488,690	433,464	(55,226)	112.7%	178,500	(30.9%)
3045	1098	Coventry Lighting District	C	1,174,599	827,221	(347,378)	142.0%	38,381	(905.1%)
3046	1242	Hope Valley Fire	C	565,595	406,555	(159,040)	139.1%	140,081	(113.5%)
3050	1156	East Greenwich Housing	C	1,219,786	1,327,492	107,706	91.9%	537,075	20.1%
3051	1116	Cranston Housing	C	4,767,651	4,287,105	(480,546)	111.2%	1,123,254	(42.8%)
3052	1166	East Providence Housing	B	2,768,801	3,296,864	528,063	84.0%	733,748	72.0%
3053	1416	Pawtucket Housing	B	13,344,578	9,325,393	(4,019,185)	143.1%	2,643,745	(152.0%)
3056	1126	Cumberland Housing	C	1,272,988	1,289,879	16,891	98.7%	547,879	3.1%
3057	1306	Lincoln Housing	B	1,608,288	1,670,595	62,307	96.3%	480,451	13.0%
3059	1016	Bristol Housing		2,002,193	1,423,831	(578,362)	140.6%	416,543	(138.8%)
3065	1036	Burrillville Housing	B	913,410	956,303	42,893	95.5%	198,093	21.7%
3066	1386	North Providence Housing	B	820,848	1,617,646	796,798	50.7%	266,677	298.8%
3067	1177	East Smithfield Water	C	930,176	792,969	(137,207)	117.3%	187,944	(73.0%)
3068	1227	Greenville Water	B	1,147,723	900,068	(247,655)	127.5%	266,374	(93.0%)
3069	1356	Newport Housing	C	6,404,592	8,710,456	2,305,864	73.5%	1,493,879	154.4%
3071	1566	Warren Housing	B	1,266,695	1,155,306	(111,389)	109.6%	272,686	(40.8%)
3072	1286	Johnston Housing		1,126,082	1,317,778	191,696	85.5%	381,614	50.2%
3077	1538	Tiverton Local 2670A	C	3,796,579	4,118,373	321,794	92.2%	943,497	34.1%
3078	2 1003 1007 1009	Barrington COLA	C	31,948,721	33,021,264	1,072,543	96.8%	7,295,087	14.7%
3079	1096	Coventry Housing		1,021,076	1,028,949	7,873	99.2%	614,805	1.3%
3080	1496	South Kingstown Housing	C	352,524	220,445	(132,079)	159.9%	171,180	(77.2%)
3081	1403	N. RI Collaborative Adm. Services	C	2,687,837	3,200,107	512,270	84.0%	928,010	55.2%
3083	1616	West Warwick Housing	B	1,662,833	1,712,719	49,886	97.1%	466,117	10.7%
3084	1476	Smithfield Housing		418,143	287,363	(130,780)	145.5%	123,127	(106.2%)

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 7

Schedule of Funding Progress

Old Unit Number (1)	New Unit Number (2)	Unit (3)	Code (s) (4)	Actuarial Value of Assets (AVA) (5)	Actuarial Accrued Liability (AAL) (6)	Unfunded Actuarial Liability (UAAL) (5) - (4) (7)	Funded Ratio (4)/(5) (8)	Annual Covered Payroll (9)	UAAL as % of Payroll (7)/(9) (10)
3094	1478	Smithfield COLA	C	13,568,547	14,818,824	1,250,277	91.6%	3,641,589	34.3%
3096	1056	Central Falls Housing	C	2,019,624	2,763,207	743,583	73.1%	892,008	83.4%
3098	1293	Lime Rock Administrative Services		266,672	358,001	91,329	74.5%	85,757	106.5%
3099	1063	Central Falls Schools	C	13,980,297	14,282,614	302,317	97.9%	3,765,093	8.0%
3100	1023	Bristol/Warren Schools	B	15,642,261	20,596,833	4,954,572	75.9%	4,211,854	117.6%
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	20,194,836	18,904,992	(1,289,844)	106.8%	5,522,513	(23.4%)
3102	1712	Harrisville Fire District (ADMIN)	C	621,135	537,558	(83,577)	115.5%	228,998	(36.5%)
3103	1702	Albion Fire District (ADMIN)	C,5	123,544	98,945	(24,599)	124.9%	0	-
3150	1159	East Greenwich Fire (ADMIN)	C	315,249	331,208	15,959	95.2%	37,371	42.7%
General Employee Units Subtotal				\$ 911,399,108	\$ 1,071,641,207	\$ 160,242,099	85.0%	\$ 223,736,632	71.6%
Police & Fire Units									
4016	1285	Johnston Fire	D	4,925,505	4,739,297	(186,208)	103.9%	3,337,299	(5.6%)
4029	1454	Richmond Police	6	1,342,825	1,601,561	258,736	83.8%	636,651	40.6%
4031	1474	Smithfield Police	C,D	12,146,287	11,303,806	(842,481)	107.5%	2,720,752	(31.0%)
4042	1555	Valley Falls Fire	D	3,175,754	4,108,707	932,953	77.3%	757,633	123.1%
4047	1395 1435	North Smithfield Voluntary Fire	B,D	6,347,348	7,500,226	1,152,878	84.6%	1,197,122	96.3%
4050	1155	East Greenwich Fire	C,D	10,675,421	16,933,335	6,257,914	63.0%	2,259,974	276.9%
4054	1154	East Greenwich Police	C,D	13,281,125	18,696,235	5,415,110	71.0%	2,068,289	261.8%
4055	1375	North Kingstown Fire	C,D	28,172,804	38,570,524	10,397,720	73.0%	3,811,583	272.8%
4056	1374	North Kingstown Police	C,D	18,469,194	25,747,108	7,277,914	71.7%	2,984,202	243.9%
4058	1385	North Providence Fire	D	29,723,454	40,644,853	10,921,399	73.1%	5,235,232	208.6%
4059	1008	Barrington Fire (25)	C	1,969,915	1,987,884	17,969	99.1%	1,158,515	1.6%
4060	1004	Barrington Police	C,D	7,885,284	12,438,597	4,553,313	63.4%	1,455,220	312.9%
4061	1005	Barrington Fire (20)	C,D	6,913,720	9,797,193	2,883,473	70.6%	1,33,536	2159.3%
4062	1564 1565	Warren Police & Fire	C,D	8,921,543	12,896,161	3,974,618	69.2%	1,497,271	265.5%
4063	1494	South Kingstown Police	B,1	21,173,155	27,720,708	6,547,553	76.4%	3,110,132	210.5%
4073	1464	Scituate Police	5	195,509	20,938	(174,571)	933.7%	0	-

Schedule of Funding Progress

Old Unit Number (1)	New Unit Number (2)	Unit (3)	Code (s) (4)	Actuarial Value of Assets (AVA) (5)	Actuarial Accrued Liability (AAL) (6)	Unfunded Actuarial Accrued Liability (UAAL) (5) - (4) (7)	Funded Ratio (4)/(5) (8)	Annual Covered Payroll (9)	UAAL as % of Payroll (7)/(9) (10)
4076	1394	North Smithfield Police	C,D	8,510,111	10,929,616	2,419,505	77.9%	1,454,883	166.3%
4077	1534	Tiverton Fire	C,D	9,371,451	10,730,265	1,358,814	87.3%	1,578,853	86.1%
4082	1194	Foster Police	C,D	2,451,813	3,278,062	826,249	74.8%	364,758	226.5%
4085	1634	Woonsocket Police	C,D	33,332,954	47,117,999	13,785,045	70.7%	5,121,719	269.1%
4086	1084	Charlestown Police	C,D	7,955,579	10,918,670	2,963,091	72.9%	1,360,222	217.8%
4087	1264	Hopkinton Police	C,D,6	5,188,023	7,807,659	2,619,636	66.4%	902,266	290.3%
4088	1214	Glocester Police	C,D	5,470,189	6,400,225	930,036	85.5%	1,000,882	92.9%
4089	1604	West Greenwich Police/Rescue	C,D	3,374,204	4,692,640	1,318,436	71.9%	836,964	157.5%
4090	1034	Burrillville Police	C,D,6	8,708,108	10,471,468	1,763,360	83.2%	1,257,025	140.3%
4091	1148	Cumberland Rescue	C,D	5,260,037	5,157,839	(102,198)	102.0%	1,011,639	(10.1%)
4093	1635	Woonsocket Fire	C,D	39,319,360	40,120,369	801,009	98.0%	6,740,219	11.9%
4094	1015	Bristol Fire	D	268,465	336,851	68,386	79.7%	95,955	71.3%
4095	1135	Cumberland Hill Fire	C,D	3,833,502	5,856,460	2,022,958	65.5%	721,162	280.5%
4096	1014	Bristol Police	C,D	5,460,724	4,274,351	(1,186,373)	127.8%	2,124,582	(55.8%)
4098	1095	Coventry Fire	C,D	3,374,091	5,222,077	1,847,986	64.6%	971,187	190.3%
4099	1505	South Kingstown EMT	C,D	3,455,604	2,826,297	(629,307)	122.3%	811,563	(77.5%)
4101	1365	North Cumberland	C,D	4,275,258	5,438,314	1,163,056	78.6%	737,745	157.7%
4102	5 1235 1525 1585	Central Coventry Fire	C,D	8,904,982	11,914,573	3,009,591	74.7%	2,364,059	127.3%
4103	1255	Hopkins Hill Fire	C,D	2,003,093	2,207,368	204,275	90.7%	685,204	29.8%
4104	1114	Cranston Police	C,D,4	29,761,760	30,168,151	406,391	98.7%	9,213,986	4.4%
4105	1115	Cranston Fire	C,D,4	49,212,141	44,644,751	(4,567,390)	110.2%	11,543,481	(39.6%)
4106	1125	Cumberland Fire	B,D	3,558,231	4,867,106	1,308,875	73.1%	704,936	185.7%
4107	1305	Lincoln Rescue	C	3,017,968	4,236,738	1,218,770	71.2%	863,347	141.2%
4108	1344	New Shoreham Police	B,D	1,060,132	1,550,958	490,826	68.4%	278,139	176.5%
4109	1324	Middletown Police & Fire	C,D	4,447,712	3,367,553	(1,080,159)	132.1%	3,251,065	(33.2%)

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 7

Schedule of Funding Progress

Old Unit Number (1)	New Unit Number (2)	Unit (3)	Code (s) (4)	Actuarial Value of Assets (AVA) (5)	Actuarial Accrued Liability (AAL) (6)	Unfunded Actuarial Accrued Liability (UAAL) (5) - (4) (7)	Funded Ratio (4)/(5) (8)	Annual Covered Payroll (9)	UAAL as % of Payroll (7)/(9) (10)
4110	1715	Harrisville Fire District	C,D	1,155,791	980,994	(174,797)	117.8%	288,783	(60.5%)
4111	1705	Albion Fire District	C	680,556	992,810	312,254	68.5%	220,923	141.3%
1284	1284	Johnston Police		218,664	223,603	4,939	97.8%	545,703	0.9%
1465	1465	Smithfield Fire	C	713,997	708,330	(5,667)	100.8%	522,308	(1.1%)
Police & Fire Units Subtotal				<u>\$ 429,663,343</u>	<u>\$ 522,149,230</u>	<u>\$ 92,485,887</u>	82.3%	<u>\$ 89,936,969</u>	102.8%
All MERS Units Total				1,341,062,451	1,593,790,437	252,727,986	84.1%	313,673,601	80.6%

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 2013 valuation.

3 - Closed unit.

4 - Historically, Cranston Fire and Police are contributing 10% due to special plan pro 5 - This unit has no active members.

6 - Historically, Special plan provisions apply to this unit.

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

Item (1)	June 30, 2014 (2)	June 30, 2013 (3)
Cash & cash equivalents	4.2%	5.1%
U.S. government & agency securities	11.1%	11.3%
Corporate bonds & notes	5.4%	5.7%
Foreign bonds	1.4%	1.8%
U.S. equity securities	25.1%	24.4%
Foreign equity securities	24.9%	22.9%
Real estate, venture capital, other	27.9%	28.8%
Total investments	100.0%	100.0%

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 9

Active Member Statistics

Old Unit Number	New Unit Number	Unit	Code(s)	Active Employees as of June 30, 2014				Active Employees as of June 30, 2013			
				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	95	48.9	14.3	\$ 48,063	100	47.8	13.4	\$45,181
3003	1032 1033	Burrillville	C	136	52.8	13.5	42,481	137	52.6	13.3	41,412
3004	1052	Central Falls		36	42.4	9.9	47,273	42	45.2	10.0	44,765
3005	1082	Charlestown	C	43	50.8	12.8	48,134	43	50.5	12.8	48,554
3007	1112 1113	Cranston	B	688	53.4	13.9	34,157	697	52.7	13.6	34,070
3008	1122 1123	Cumberland		232	51.7	12.4	36,868	227	52.1	12.6	35,389
3009	1152 1153	East Greenwich	C	14	49.1	13.7	70,514	16	50.0	14.3	76,794
3010	1162 1163	East Providence	B	360	52.2	13.4	43,841	356	51.7	13.0	42,212
3011	1183	Exeter/West Greenwich	B	63	54.4	13.4	39,534	70	53.4	12.7	38,256
3012	1192 1193	Foster		34	56.3	12.3	32,258	34	56.4	11.8	32,929
3013	1212 1213	Glocester	C	70	52.6	10.8	36,954	67	52.6	10.9	36,950
3014	1262	Hopkinton	C	35	53.1	11.2	46,644	36	52.6	10.0	44,720
3015	1272 1273	Jamestown	C	80	51.2	12.4	45,313	84	50.4	11.7	43,574
3016	1282 1283	Johnston	C	228	51.6	12.2	33,433	239	51.6	11.5	33,468
3017	1302 1303	Lincoln		16	53.6	12.6	60,575	15	52.1	11.4	57,780
3019	1322 1323	Middletown	C	132	50.0	12.2	41,408	136	49.5	11.4	40,307
3021	1352 1353 1354	Newport	B	254	51.1	12.7	45,691	250	50.3	12.3	43,996
3022	1342 1343	New Shoreham	B	51	51.4	10.3	40,902	50	51.4	10.0	41,247
3023	1372 1373	North Kingstown	C	307	52.2	11.6	35,674	291	52.0	12.0	35,297
3024	1382 1383	North Providence		209	52.6	12.9	31,805	229	51.6	11.8	30,633
3025	1392 1393	North Smithfield	B	89	53.8	11.3	35,731	95	52.6	10.6	35,275
3026	1412 1413	Pawtucket	C	496	50.8	13.7	38,432	496	50.6	13.3	38,267
3027	1515	Union Fire District		6	56.0	13.9	46,233	6	55.1	12.9	43,920
3029	1452	Richmond		27	49.4	8.8	37,420	25	51.4	8.9	36,915
3030	1462 1463	Scituate	B	84	51.2	10.6	31,790	87	52.1	10.7	31,556
3031	1472 1473	Smithfield	C	89	53.4	10.8	36,378	87	52.9	12.0	36,972
3032	1492 1493	South Kingstown	B	306	53.3	14.2	39,007	322	52.7	13.5	38,054
3033	1532 1533	Tiverton	C	94	51.5	10.3	34,975	86	53.0	10.9	35,172
3034	1562	Warren	C	43	47.7	12.7	45,782	44	46.5	12.2	43,683
3036	1622 1623	Westerly		---	---	---	---	1	62.3	31.0	69,073
3037	1602	West Greenwich	C	24	47.4	8.3	40,945	21	47.1	8.5	40,644
3039	1632 1633	Woonsocket	B	307	52.1	12.6	33,728	326	51.9	12.6	33,371
3040	1073	Charlho School District	C	166	50.5	12.0	32,542	164	49.9	11.9	32,901
3041	1203	Foster/Glocester	B	52	53.0	12.8	34,890	50	52.1	12.0	33,474
3043	1336	Narragansett Housing	C	4	51.7	15.2	44,625	4	50.7	14.2	44,625
3045	1098	Coventry Lighting District	C	1	74.7	37.3	38,381	1	73.7	36.3	36,182
3046	1242	Hope Valley Fire	C	3	60.8	22.2	46,694	3	59.8	21.2	45,688
3050	1156	East Greenwich Housing	C	10	51.8	8.8	53,708	9	52.3	8.6	50,357
3051	1116	Cranston Housing	C	20	58.8	17.6	56,163	20	57.8	16.6	54,142
3052	1166	East Providence Housing	B	14	52.3	9.8	52,411	15	51.7	9.6	50,616
3053	1416	Pawtucket Housing	B	51	50.8	13.3	51,838	58	50.4	12.2	50,783
3056	1126	Cumberland Housing	C	12	49.6	10.3	45,657	12	48.6	9.3	44,946
3057	1306	Lincoln Housing	B	12	48.1	4.8	40,038	11	47.2	5.9	42,263
3059	1016	Bristol Housing		9	49.2	13.4	46,283	9	50.6	14.1	42,309
3065	1036	Burrillville Housing	B	4	44.7	10.3	49,523	4	43.7	9.3	48,174
3066	1386	North Providence Housing	B	6	57.2	10.7	44,446	6	56.2	9.7	43,613

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 9

Active Member Statistics

Old Unit Number	New Unit Number	Unit	Code(s)	Active Employees as of June 30, 2014				Active Employees as of June 30, 2013			
				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	4	60.1	10.9	46,986	4	59.1	9.9	44,943
3068	1227	Greenville Water	B	4	54.8	14.8	66,594	4	53.8	13.8	64,995
3069	1356	Newport Housing	C	30	52.7	12.9	49,796	30	52.0	12.7	48,493
3071	1566	Warren Housing	B	7	48.1	3.0	38,955	6	52.7	8.3	45,133
3072	1286	Johnston Housing		8	54.9	15.5	47,702	9	53.8	13.3	47,764
3077	1538	Tiverton Local 2670A	C	25	51.9	12.2	37,740	26	53.0	12.5	37,646
3078	02 1003 1007 10	Barrington COLA	C	171	53.0	12.6	42,661	175	52.0	12.3	42,009
3079	1096	Coventry Housing		15	51.9	8.5	40,987	14	51.9	8.1	41,602
3080	1496	South Kingstown Housing	C	4	56.2	7.8	42,795	4	55.2	6.8	40,795
3081	1403	N. RI Collaborative Adm. Services	C	30	50.0	9.8	30,934	28	50.4	9.8	31,068
3083	1616	West Warwick Housing	B	10	53.4	12.9	46,612	10	52.4	11.9	46,349
3084	1476	Smithfield Housing		3	51.4	17.5	41,042	3	50.4	16.5	45,041
3094	1478	Smithfield COLA	C	71	50.0	13.4	51,290	70	50.0	13.7	50,956
3096	1056	Central Falls Housing	C	19	46.5	9.5	46,948	21	45.2	8.1	42,385
3098	1293	Lime Rock Administrative Services		2	54.8	14.7	42,879	2	53.8	13.7	40,911
3099	1063	Central Falls Schools	C	110	49.6	10.8	34,228	129	49.4	10.3	34,031
3100	1023	Bristol/Warren Schools	B	116	52.3	12.0	36,309	120	51.8	11.8	36,334
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	167	52.6	12.0	33,069	161	51.6	11.7	33,000
3102	1712	Harrisville Fire District (ADMIN)	C	4	51.2	16.6	57,250	3	51.6	17.3	58,767
3103	1702	Albion Fire District (ADMIN)	C,5	---	---	---	---	---	---	---	---
3150	1159	East Greenwich Fire (ADMIN)	C	1	48.8	17.1	37,371	1	47.8	16.2	45,632
All General Employee Units				5,813	51.9	12.6	\$ 38,489	5,901	51.5	12.3	\$37,855
Police & Fire Units											
4016	1285	Johnston Fire	D	58	37.5	7.5	\$ 57,540	55	36.5	6.6	\$56,143
4029	1454	Richmond Police	6	11	39.2	11.6	57,877	12	38.4	10.3	58,152
4031	1474	Smithfield Police	C,D	41	37.7	12.9	66,360	41	37.7	12.9	65,167
4042	1555	Valley Falls Fire	D	13	36.0	8.9	58,279	13	35.1	8.6	58,650
4047	1395 1435	North Smithfield Voluntary Fire	B,D	21	41.8	13.0	57,006	21	40.8	12.0	54,533
4050	1155	East Greenwich Fire	C,D	36	38.9	9.0	62,777	39	38.2	8.1	60,024
4054	1154	East Greenwich Police	C,D	33	42.3	11.1	62,675	33	42.1	10.9	60,923
4055	1375	North Kingstown Fire	C,D	62	43.1	15.7	61,477	60	42.6	15.7	63,669
4056	1374	North Kingstown Police	C,D	43	39.5	13.1	69,400	44	38.5	12.0	65,532
4058	1385	North Providence Fire	D	90	41.4	14.6	58,169	93	40.5	13.5	55,425
4059	1008	Barrington Fire (25)	C	21	33.1	6.7	55,167	19	34.7	6.9	54,895
4060	1004	Barrington Police	C,D	22	40.6	14.2	66,146	22	39.6	13.2	64,521
4061	1005	Barrington Fire (20)	C,D	2	53.8	27.5	66,768	3	52.7	27.3	65,000
4062	1564 1565	Warren Police & Fire	C,D	23	43.7	16.9	65,099	24	42.8	15.9	62,756
4063	1494	South Kingstown Police	B,1	52	39.0	11.3	59,810	49	39.3	11.3	58,448
4076	1394	North Smithfield Police	C,D	25	34.8	9.3	58,195	25	34.4	8.8	54,113
4077	1534	Tiverton Fire	C,D	29	39.8	10.9	54,443	32	36.9	9.6	52,349

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 9

Active Member Statistics

Old Unit Number	New Unit Number	Unit	Code(s)	Active Employees as of June 30, 2014				Active Employees as of June 30, 2013			
				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)
4082	1194	Foster Police	C,D	8	42.5	4.5	45,595	9	39.3	4.7	45,040
4085	1634	Woonsocket Police	C,D	84	37.4	10.5	60,973	87	36.8	10.1	58,789
4086	1084	Charlestown Police	C,D	20	41.2	15.5	68,011	19	40.9	15.3	67,174
4087	1264	Hopkinton Police	C,D,6	15	35.8	7.3	60,151	15	35.3	6.5	58,100
4088	1214	Glocester Police	C,D	17	43.5	13.6	58,875	16	42.6	13.6	61,070
4089	1604	West Greenwich Police/Rescue	C,D	15	44.0	10.3	55,798	13	44.8	10.7	56,285
4090	1034	Burrillville Police	C,D,6	21	43.3	14.2	59,858	21	42.4	13.2	60,154
4091	1148	Cumberland Rescue	C,D	18	43.1	13.6	56,202	18	42.1	12.6	55,130
4093	1635	Woonsocket Fire	C,D	104	41.4	15.6	64,810	109	40.8	14.9	62,400
4094	1015	Bristol Fire	D	2	53.6	7.3	47,978	1	56.5	12.5	50,562
4095	1135	Cumberland Hill Fire	C,D	13	38.5	9.7	55,474	13	37.5	8.7	51,242
4096	1014	Bristol Police	C,D	34	36.4	9.5	62,488	35	35.6	8.7	61,213
4098	1095	Coventry Fire	C,D	17	37.2	10.7	57,129	18	37.1	10.3	55,830
4099	1505	South Kingstown EMT	C,D	17	38.4	9.3	47,739	16	37.6	9.4	46,574
4101	1365	North Cumberland	C,D	13	47.6	16.8	56,750	13	48.3	17.6	55,577
4102	45 1235 1525 15	Central Coventry Fire	C,D	40	41.2	11.0	59,101	46	40.6	10.2	56,436
4103	1255	Hopkins Hill Fire	C,D	12	50.8	13.0	57,100	12	49.8	12.0	50,329
4104	1114	Cranston Police	C,D,4	138	38.0	11.5	66,768	134	37.7	11.0	66,815
4105	1115	Cranston Fire	C,D,4	159	42.5	13.9	72,601	163	41.8	13.1	67,341
4106	1125	Cumberland Fire	B,D	13	47.1	13.9	54,226	13	46.1	12.9	49,849
4107	1305	Lincoln Rescue	C	16	40.2	12.3	53,959	17	40.7	12.5	51,998
4108	1344	New Shoreham Police	B,D	5	45.6	7.6	55,628	4	45.8	7.5	52,145
4109	1324	Middletown Police & Fire	C,D	56	33.4	5.8	58,055	51	33.2	5.6	56,793
4110	1715	Harrisville Fire District	C,D	5	41.6	12.4	57,757	5	40.6	11.4	57,398
4111	1705	Albion Fire District	C	4	46.7	15.6	55,231	4	45.7	14.6	47,749
1284	1284	Johnston Police		11	32.5	3.0	49,609	9	32.2	1.7	44,688
1465	1465	Smithfield Fire	C	11	32.0	4.1	47,483	9	32.4	3.5	42,796
All Police & Fire Units				1,450	39.9	11.9	\$ 62,025	1,455	39.4	11.4	\$60,088
All MERS Units				7,263	0.0	0.0	\$ 43,188	7,356	49.1	12.2	\$42,252

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 2013 valuation.

3 - Closed unit.

4 - Historically, Cranston Fire and Police are contributing 10% due to special plan provisio

5 - This unit has no active members.
 6 - Historically, Special plan provisions apply to this unit.

Retired Member Statistics

Old Unit Number (1)	New Unit Number (2)	Unit (3)	Code(s) (4)	Retirees and Beneficiaries As of June 30, 2014			Retirees and Beneficiaries As of June 30, 2013		
				Number (5)	Average Age (6)	Average Monthly Benefit (7)	Number (8)	Average Age (9)	Average Monthly Benefit (10)
General Employee Units									
3002	1012 1019	Bristol	B	78	76.0	\$ 1,428	77	75.9	\$1,464
3003	1032 1033	Burrillville	C	98	73.6	1,098	97	73.3	1,131
3004	1052	Central Falls		34	72.5	1,225	36	72.9	1,194
3005	1082	Charlestown	C	11	72.6	1,697	11	73.2	1,661
3007	1112 1113	Cranston	B	569	73.6	1,181	568	73.5	1,189
3008	1122 1123	Cumberland		172	75.1	810	165	75.0	792
3009	1152 1153	East Greenwich	C	60	80.1	685	60	79.4	614
3010	1162 1163	East Providence	B	383	72.7	1,492	394	72.4	1,508
3011	1183	Exeter/West Greenwich	B	31	69.7	1,125	30	70.5	1,057
3012	1192 1193	Foster		22	72.6	682	23	71.8	678
3013	1212 1213	Glocester	C	35	70.8	1,031	32	70.6	967
3014	1262	Hopkinton	C	13	73.3	1,023	14	71.8	1,047
3015	1272 1273	Jamestown	C	33	69.8	1,441	33	69.4	1,333
3016	1282 1283	Johnston	C	203	73.9	1,091	201	74.0	1,111
3017	1302 1303	Lincoln		6	71.2	1,427	6	70.2	1,427
3019	1322 1323	Middletown	C	43	66.7	1,865	41	66.1	1,928
3021	1352 1353 1354	Newport	B	242	71.7	1,600	242	71.0	1,658
3022	1342 1343	New Shoreham	B	18	74.3	1,185	16	74.0	1,201
3023	1372 1373	North Kingstown	C	232	71.9	1,297	228	71.6	1,292
3024	1382 1383	North Providence		163	75.2	736	168	75.3	718
3025	1392 1393	North Smithfield	B	66	76.6	968	65	76.0	960
3026	1412 1413	Pawtucket	C	514	73.9	1,279	523	73.6	1,282
3027	1515	Union Fire District		1	64.9	1115.3	1	63.9	1115.3
3029	1452	Richmond		13	74.4	691	13	73.4	691
3030	1462 1463	Scituate	B	61	74.9	1,115	58	74.9	1,145
3031	1472 1473	Smithfield	C	79	77.1	848	79	77.7	757
3032	1492 1493	South Kingstown	B	165	72.0	1,319	161	72.1	1,311
3033	1532 1533	Tiverton	C	45	76.1	914	46	76.5	877
3034	1562	Warren	C	36	79.8	930	40	80.1	832
3036	1622 1623	Westerly		8	82.2	1,476	7	83.9	1,244
3037	1602	West Greenwich	C	16	68.9	1,321	16	67.9	1,427
3039	1632 1633	Woonsocket	B	354	74.8	1,057	347	74.7	1,050
3040	1073	Chariho School District	C	57	70.6	1,219	56	69.9	1,171
3041	1203	Foster/Glocester	B	28	73.0	909	29	73.1	945
3042	1528	Tiogue Fire & Lighting	C,5	1	66.3	155.7	1	65.3	155.7
3043	1336	Narragansett Housing	C	1	78.8	437	1	77.8	437
3045	1098	Coventry Lighting District	C	2	80.1	4,360	2	79.1	4,353
3046	1242	Hope Valley Fire	C	---	---	---	---	---	---
3050	1156	East Greenwich Housing	C	2	67.4	2,911	2	66.4	2,911
3051	1116	Cranston Housing	C	9	79.6	949	9	78.6	949
3052	1166	East Providence Housing	B	13	76.1	1,383	12	75.9	1,334
3053	1416	Pawtucket Housing	B	23	74.0	1,437	20	74.0	1,418
3056	1126	Cumberland Housing	C	4	78.6	1,563	4	77.6	1,563

Municipal Employees' Retirement System
State of Rhode Island

Actuarial Valuation – June 30, 2014

Table 10

Retired Member Statistics

Old Unit Number (1)	New Unit Number (2)	Unit (3)	Code(s) (4)	Retirees and Beneficiaries As of June 30, 2014			Retirees and Beneficiaries As of June 30, 2013		
				Number (5)	Average Age (6)	Average Monthly Benefit (7)	Number (8)	Average Age (9)	Average Monthly Benefit (10)
3057	1306	Lincoln Housing	B	8	70.4	1,111	7	69.8	1,598
3059	1016	Bristol Housing		5	79.2	1,069	5	79.1	1,069
3065	1036	Burrillville Housing	B	2	71.1	2,373	2	70.1	2,373
3066	1386	North Providence Housing	B	5	71.2	1,653	5	70.2	1,653
3067	1177	East Smithfield Water	C	3	74.2	993	3	73.2	993
3068	1227	Greenville Water	B	1	68.3	2,975	1	67.3	2,975
3069	1356	Newport Housing	C	27	70.1	1,693	27	69.2	1,693
3071	1566	Warren Housing	B	6	73.4	1,584	5	72.1	1,270
3072	1286	Johnston Housing		6	82.9	960	6	81.9	960
3077	1538	Tiverton Local 2670A	C	17	70.0	1,120	14	71.8	1,087
3078	02 1003 1007 10	Barrington COLA	C	126	75.3	1,175	124	74.9	1,140
3079	1096	Coventry Housing		7	78.8	577	8	79.6	535
3080	1496	South Kingstown Housing	C	---	---	---	---	---	---
3081	1403	N. RI Collaborative Adm. Services	C	12	67.3	1,049	11	66.9	1,242
3083	1616	West Warwick Housing	B	5	76.4	1,216	5	75.4	1,215
3084	1476	Smithfield Housing		---	---	---	---	---	---
3094	1478	Smithfield COLA	C	35	68.1	1,634	33	67.8	1,616
3096	1056	Central Falls Housing	C	11	73.5	1,294	11	72.5	1,294
3098	1293	Lime Rock Administrative Services		1	62.0	1211.8	1	61.0	1211.8
3099	1063	Central Falls Schools	C	60	69.4	978	56	68.8	1,020
3100	1023	Bristol/Warren Schools	B	100	70.5	1,089	99	70.3	1,173
3101	1157 1158	Town of E. Greenwich-COLA-NCE	C	36	67.7	1,870	35	67.1	1,860
3102	1712	Harrisville Fire District (ADMIN)	C	---	---	---	---	---	---
3103	1702	Albion Fire District (ADMIN)	C,5	---	---	---	---	---	---
3150	1159	East Greenwich Fire (ADMIN)	C	1	65.1	1771.0	1	64.1	1771.0
All General Employee Units				4,418	73.5	1,205	4,393	73.3	\$ 1,207
Police and Fire Units									
4016	1285	Johnston Fire	D	2	53.7	\$ 2,998	2	52.7	\$2,998
4029	1454	Richmond Police	6	1	53.8	2,199	1	52.8	2,199
4031	1474	Smithfield Police	C,D	7	51.0	2,888	5	52.2	2,723
4042	1555	Valley Falls Fire	D	9	57.3	2,298	8	57.3	2,495
4047	1395 1435	North Smithfield Voluntary Fire	B,D	10	60.4	2,393	9	62.1	2,663
4050	1155	East Greenwich Fire	C,D	33	59.9	2,574	32	60.6	2,558
4054	1154	East Greenwich Police	C,D	30	61.2	3,010	28	61.0	3,064
4055	1375	North Kingstown Fire	C,D	67	65.3	2,532	67	65.4	2,472
4056	1374	North Kingstown Police	C,D	37	58.5	2,891	35	57.6	2,995
4058	1385	North Providence Fire	D	69	57.8	2,497	67	56.6	2,491
4059	1008	Barrington Fire (25)	C	1	68.0	4,431	1	67.0	4,431
4060	1004	Barrington Police	C,D	26	69.1	2,177	26	68.1	2,177
4061	1005	Barrington Fire (20)	C,D	36	69.8	1,833	35	69.3	1,817
4062	1564 1565	Warren Police & Fire	C,D	21	67.9	2,396	21	66.9	2,396
4063	1494	South Kingstown Police	B,1	50	63.6	2,764	48	62.9	2,825
4073	1464	Scituate Police	5	1	83.6	301	1	82.6	301
4076	1394	North Smithfield Police	C,D	19	62.0	2,646	19	61.0	2,646

Municipal Employees' Retirement System
 State of Rhode Island
 Actuarial Valuation – June 30, 2014

Table 10

Retired Member Statistics

Old Unit Number (1)	New Unit Number (2)	Unit (3)	Code(s) (4)	Retirees and Beneficiaries As of June 30, 2014			Retirees and Beneficiaries As of June 30, 2013		
				Number (5)	Average Age (6)	Average Monthly Benefit (7)	Number (8)	Average Age (9)	Average Monthly Benefit (10)
4077	1534	Tiverton Fire	C,D	24	61.8	2,021	24	60.8	2,021
4082	1194	Foster Police	C,D	8	60.0	2,217	9	57.6	2,244
4085	1634	Woonsocket Police	C,D	72	50.3	2,833	68	49.5	2,837
4086	1084	Charlestown Police	C,D	13	58.3	3,145	12	57.6	3,080
4087	1264	Hopkinton Police	C,D,6	14	54.2	2,791	13	53.3	2,935
4088	1214	Glocester Police	C,D	11	62.9	1,869	11	61.9	1,864
4089	1604	West Greenwich Police/Rescue	C,D	6	56.1	2,889	6	55.1	2,889
4090	1034	Burrillville Police	C,D,6	15	61.6	2,690	16	60.9	2,707
4091	1148	Cumberland Rescue	C,D	6	53.0	1,848	6	52.0	1,908
4093	1635	Woonsocket Fire	C,D	31	50.9	2,887	28	50.2	2,733
4094	1015	Bristol Fire	D	2	63.7	723	2	62.7	723
4095	1135	Cumberland Hill Fire	C,D	11	57.9	2,750	11	56.9	2,750
4096	1014	Bristol Police	C,D	1	49.4	3,020	1	48.4	3,006
4098	1095	Coventry Fire	C,D	8	55.2	2,318	7	54.6	2,209
4099	1505	South Kingstown EMT	C,D	2	47.4	2,468	2	46.4	2,461
4101	1365	North Cumberland	C,D	8	57.5	1,831	6	57.4	1,861
4102	45 1235 1525 15	Central Coventry Fire	C,D	16	56.6	2,606	13	57.7	2,575
4103	1255	Hopkins Hill Fire	C,D	1	46.6	1,736	1	45.6	1,736
4104	1114	Cranston Police	C,D,4	13	50.0	3,627	12	49.2	3,419
4105	1115	Cranston Fire	C,D,4	13	51.1	3,090	9	49.2	3,241
4106	1125	Cumberland Fire	B,D	7	65.0	2,878	7	64.0	2,878
4107	1305	Lincoln Rescue	C	7	56.2	1,809	6	53.5	1,769
4108	1344	New Shoreham Police	B,D	2	53.2	3,223	2	52.2	3,223
4109	1324	Middletown Police & Fire	C,D	---	---	---	---	---	---
4110	1715	Harrisville Fire District	C,D	---	---	---	---	---	---
4111	1705	Albion Fire District	C	1	72.1	1,901	1	71.1	1,901
1284	1284	Johnston Police		---	---	---	---	---	---
1465	1465	Smithfield Fire	C	---	---	---	---	---	---
All Police & Fire Units				711	59.5	\$ 2,584	678	59.0	\$2,579
All MERS Units				5,129	71.5	\$ 1,396	5,071	71.4	\$1,391

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 2013 valuation.

3 - Closed unit.

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

5 - This unit has no active members.

6 - Historically, Special plan provisions apply to this unit.

**Distribution of Active Members by Age and by Years of Service (General Employees)
 As of June 30, 2014**

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	20 \$31,484	12 \$26,437	7 \$30,293	2 \$34,302	3 \$25,003	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	44 \$29,604
25-29	29 \$32,758	32 \$33,208	18 \$32,270	21 \$33,331	11 \$35,954	24 \$39,134	1 \$37,230	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	136 \$34,304
30-34	34 \$39,237	29 \$35,729	23 \$36,401	20 \$31,512	11 \$33,730	93 \$40,002	32 \$40,372	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	242 \$38,102
35-39	31 \$34,072	28 \$39,171	25 \$38,726	23 \$37,863	15 \$44,267	80 \$42,309	73 \$44,355	19 \$47,763	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	294 \$41,449
40-44	38 \$35,062	30 \$30,626	25 \$39,095	16 \$30,227	21 \$40,485	125 \$40,108	109 \$42,272	54 \$43,410	20 \$43,867	1 \$48,667	0 \$0	0 \$0	0 \$0	439 \$39,758
45-49	56 \$28,531	45 \$29,187	41 \$31,663	35 \$32,968	46 \$37,371	199 \$37,681	200 \$40,679	80 \$48,903	90 \$51,293	54 \$49,813	0 \$0	0 \$0	0 \$0	846 \$40,112
50-54	42 \$30,636	41 \$34,550	32 \$29,925	42 \$32,771	35 \$31,313	245 \$33,648	348 \$35,568	203 \$41,776	104 \$44,039	90 \$48,523	17 \$47,554	1 \$63,987	1 \$0	1,200 \$37,546
55-59	32 \$30,477	38 \$34,732	29 \$35,065	27 \$37,457	25 \$36,682	202 \$37,611	387 \$33,677	268 \$39,156	169 \$42,810	99 \$47,555	36 \$51,772	7 \$51,637	7 \$0	1,319 \$38,312
60-64	23 \$45,519	13 \$30,163	17 \$31,205	16 \$25,866	22 \$35,890	106 \$37,193	181 \$36,163	202 \$36,394	155 \$39,022	89 \$43,069	23 \$49,175	21 \$53,186	21 \$0	868 \$38,182
65-69	7 \$40,915	9 \$33,464	10 \$25,958	9 \$22,615	4 \$45,748	61 \$34,184	89 \$38,512	82 \$38,042	76 \$35,981	46 \$41,259	17 \$51,842	15 \$57,566	15 \$0	425 \$38,219
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	0 \$0
Total	312 \$33,639	277 \$33,122	227 \$33,649	211 \$32,760	193 \$36,582	1,135 \$37,379	1,420 \$37,109	908 \$40,319	614 \$42,494	379 \$46,292	93 \$50,371	44 \$54,678	44 \$0	5,813 \$38,489

**Distribution of Active Members by Age and by Years of Service (Police & Fire)
 As of June 30, 2014**

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	9 \$42,161	19 \$42,271	8 \$49,848	2 \$58,857	1 \$56,390	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	39 \$45,012
25-29	15 \$44,814	40 \$47,613	47 \$51,029	36 \$52,915	19 \$54,951	37 \$61,453	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	194 \$52,566
30-34	9 \$41,541	19 \$48,597	20 \$52,100	15 \$53,688	9 \$55,221	123 \$61,837	36 \$63,069	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	231 \$58,519
35-39	3 \$42,422	2 \$45,904	8 \$48,290	7 \$50,777	8 \$55,407	71 \$60,908	116 \$63,745	17 \$67,223	1 \$73,193	0 \$0	0 \$0	0 \$0	233 \$61,540
40-44	0 \$0	6 \$53,314	3 \$48,707	3 \$54,990	3 \$55,724	48 \$59,009	80 \$63,848	103 \$68,720	19 \$72,840	0 \$0	0 \$0	0 \$0	265 \$64,908
45-49	1 \$49,109	2 \$48,682	3 \$54,190	4 \$62,410	1 \$73,799	21 \$61,025	60 \$63,399	63 \$67,290	65 \$69,340	33 \$72,256	0 \$0	0 \$0	253 \$66,596
50-54	1 \$46,000	6 \$55,227	4 \$48,589	3 \$63,076	3 \$64,552	7 \$67,714	22 \$60,558	28 \$65,566	47 \$70,073	44 \$72,629	3 \$72,721	0 \$0	168 \$67,286
55-59	0 \$0	0 \$0	0 \$0	0 \$0	1 \$69,773	2 \$80,995	7 \$62,245	5 \$69,890	14 \$70,360	15 \$72,834	6 \$74,001	1 \$60,933	51 \$70,577
60-64	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	2 \$69,347	1 \$45,753	1 \$73,164	3 \$72,686	1 \$63,007	1 \$80,600	2 \$74,198	11 \$69,788
65-69	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	1 \$76,003	1 \$81,070	0 \$0	0 \$0	1 \$75,369	2 \$86,959	0 \$0	5 \$81,272
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	38 \$43,366	94 \$47,568	93 \$50,844	70 \$54,104	45 \$56,558	312 \$61,439	323 \$63,379	217 \$67,828	149 \$70,207	94 \$72,458	12 \$76,391	3 \$69,776	1,450 \$62,025

Membership Data (General Employee Units)

	<u>June 30, 2014</u>	<u>June 30, 2013</u>
	(1)	(2)
1. Active members		
a. Number	5,813	5,901
b. Number vested	4,593	4,675
c. Total payroll supplied by ERSRI	\$223,736,632	\$223,380,413
d. Average salary	\$38,489	\$37,855
e. Average age	51.9	51.5
f. Average service	12.6	12.3
2. Inactive members		
a. Number	2,662	2,545
3. Service retirees		
a. Number	3,731	3,718
b. Total annual benefits	\$56,472,840	\$56,265,599
c. Average annual benefit	\$15,136	\$15,133
d. Average age	73.7	73.6
4. Disabled retirees		
a. Number	251	252
b. Total annual benefits	\$3,516,904	\$3,610,551
c. Average annual benefit	\$14,012	\$14,328
d. Average age	65.0	64.5
5. Beneficiaries and spouses		
a. Number	436	423
b. Total annual benefits	\$3,906,574	\$3,772,797
c. Average annual benefit	\$8,960	\$8,919
d. Average age	76.4	75.6

Membership Data (Police & Fire Units)

	<u>June 30, 2014</u>	<u>June 30, 2013</u>
	(1)	(2)
1. Active members		
a. Number	1,450	1,455
b. Number vested	1,110	1,087
c. Total payroll supplied by ERSRI	\$89,936,969	\$87,428,024
d. Average salary	\$62,025	\$60,088
e. Average age	39.9	39.4
f. Average service	11.9	11.4
2. Inactive members		
a. Number	162	148
3. Service retirees		
a. Number	496	485
b. Total annual benefits	\$16,530,694	\$15,984,731
c. Average annual benefit	\$33,328	\$32,958
d. Average age	60.1	59.8
4. Disabled retirees		
a. Number	128	122
b. Total annual benefits	\$4,322,409	\$4,028,540
c. Average annual benefit	\$33,769	\$33,021
d. Average age	54.6	53.6
5. Beneficiaries and spouses		
a. Number	87	71
b. Total annual benefits	\$1,190,746	\$968,747
c. Average annual benefit	\$13,687	\$13,644
d. Average age	63.0	62.9

Membership Data (All MERS Units)

	<u>June 30, 2014</u>	<u>June 30, 2013</u>
	(1)	(2)
1. Active members		
a. Number	7,263	7,356
b. Number vested	5,703	4,184
c. Total payroll supplied by ERSRI	\$313,673,601	\$310,808,437
d. Average salary	\$43,188	\$42,252
e. Average age	49.5	49.1
f. Average service	12.5	12.1
2. Inactive members		
a. Number	2,824	2,693
3. Service retirees		
a. Number	4,227	4,203
b. Total annual benefits	\$73,003,534	\$72,250,330
c. Average annual benefit	\$17,271	\$17,190
d. Average age	72.1	72.0
4. Disabled retirees		
a. Number	379	374
b. Total annual benefits	\$7,839,313	\$7,639,091
c. Average annual benefit	\$20,684	\$20,425
d. Average age	61.5	61.0
5. Beneficiaries and spouses		
a. Number	523	494
b. Total annual benefits	\$5,097,320	\$4,741,544
c. Average annual benefit	\$9,746	\$9,598
d. Average age	74.2	73.8

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. For underfunded units, the period is 25 years as measured from June 30, 2010, or 21 years as of the current valuation date for the existing UAAL. Beginning with the June 30, 2014 actuarial valuation, new experience gains and losses for underfunded units are amortized over individual closed periods of 20 years using the process of “laddering”. Overfunded plans will have an amortization rate calculated using a single base amortized over an open period of 20 years. 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 UAAL and covered payroll are projected forward for two years, and we then determine the amortization charge required to amortize the UAAL over the stated 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. Offsetting unrecognized gains and losses are immediately recognized, with the shortest remaining bases recognized first and the net remaining bases continue to be recognized on their original timeframe. 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 proportion to that unit's market value.

IV. Actuarial Assumptions

A. Economic Assumptions

1. Investment return: 7.50% per year, compounded annually, composed of an assumed 2.75% inflation rate and a 4.75% 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 3.50% wage inflation assumption (composed of a 2.75% price inflation assumption and a 0.75% additional general increase), and (ii) a service-related component as shown below:

General Employees		
Years of Service	Service-Related Component	Total Increase
1	4.00%	7.50%
2	3.00	6.50
3	2.75	6.25
4	2.50	6.00
5	2.25	5.75
6	2.00	5.50
7	1.25	4.75
8	0.75	4.25
9-10	0.50	4.00
11-15	0.25	3.75
16 or more	0.00	3.50

For police/fire employees, the sum of (i) a 4.00% wage inflation assumption (composed of a 2.75% price inflation assumption and a 1.25% additional general increase), and (ii) a service-related component as shown below:

Police/Fire Employees		
Years of Service	Service-Related Component	Total Increase
1	10.00%	14.00%
2	9.00	13.00
3	7.00	11.00
4	4.00	8.00
5	2.50	6.50
6	3.00	7.00
7	0.50	4.50
8	0.50	4.50
9 or more	0.00	4.00

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 3.25% for MERS General Employees and 3.50% for MERS P&F per year. This increase rate is solely due to the effect of wage inflation on salaries, with no allowance for future membership growth.
4. Post-retirement Benefit Increase: Post-retirement benefit increases are assumed to be 2%, per annum for all units. The actual COLA will be determined based on the plan's five-year average investment rate of return minus 5.5% and will range from zero to 4.0%. It is known that the COLA for calendar years 2014 and 2015 will be 0.67% and 2.73% respectively, and this has been reflected in the valuation.

B. Demographic Assumptions

1. Post-retirement mortality rates:
 - a. Male employees: 115% of the RP-2000 Combined Healthy for Males with White Collar adjustments, projected with Scale AA from 2000.
 - b. Female employees: 95% of the RP-2000 Combined Healthy for Females with White Collar adjustments, projected with Scale AA from 2000.
 - c. Disabled males – 60% of the PBGC Table Va for disabled males eligible for Social Security disability benefits.
 - d. Disabled females – 60% of the PBGC Table VIa for disabled females eligible for Social Security disability benefits.
2. Pre-retirement mortality (combined ordinary and duty):
 - a. Male employees: 75% of RP-2000 Combined Healthy for Males with White Collar adjustments.
 - b. Female employees: 75% of RP-2000 Combined Healthy for Females with White Collar adjustments.

Sample rates are shown below:

Number of Deaths per 100		
Age	Males	Females
25	0.03	0.02
30	0.03	0.02
35	0.04	0.03
40	0.07	0.05
45	0.10	0.08
50	0.15	0.12
55	0.25	0.19
60	0.42	0.35
65	0.83	0.65
70	1.45	1.14

3. Disability rates: Sample rates per 1,000 active members are shown below. Ordinary disability rates are not applied to members eligible for unreduced 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	0.59	0.18	0.27	0.06	0.26	1.70
30	0.72	0.22	0.33	0.08	0.33	2.20
35	0.98	0.30	0.45	0.11	0.44	2.90
40	1.43	0.44	0.66	0.15	0.66	4.40
45	2.34	0.72	1.08	0.25	1.08	7.20
50	3.97	1.22	1.83	0.43	1.82	12.10
55	6.57	2.02	3.03	0.71	1.82	12.10
60	9.17	2.82	4.23	0.99	1.82	12.10
65	15.02	4.62	6.93	1.62	1.82	12.10

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	General Employees, Males & Females	Police & Fire, Males & Females
1	0.175000	0.100000
2	0.118774	0.047300
3	0.101396	0.036903
4	0.086148	0.030821
5	0.072887	0.026506
6	0.061471	0.023158
7	0.051757	0.020424
8	0.043604	0.018111
9	0.036868	0.016108
10	0.031408	0.014342
11	0.027082	0.012761
12	0.023746	0.011332
13	0.021259	0.010026
14	0.019479	0.008826
15	0.018263	0.007714
16	0.017470	0.006679
17	0.016956	0.005711
18	0.016579	0.004802
19	0.016198	0.003944
20	0.015669	0.000000
21	0.014851	0.000000
22	0.013602	0.000000
23	0.011778	0.000000
24	0.009239	0.000000
25	0.005841	0.000000

5. Retirement Rates (unreduced):

For MERS General Employees: a flat 25% per year retirement probability for members eligible for unreduced retirement. A 50% retirement probability at first eligibility will be only applied if they have reached age 65 or with at least 25 years of service.

For MERS P&F: Unisex, service based rates are used depend on whether the unit had elected the optional 20-year retirement provisions. All members are assumed to retire upon reaching age 65 with at least ten years of service. Because of the enactment of the RIRSA in 2011, the retirement assumption was modified for members not eligible for retirement by July 1, 2012. Members who would have been assumed to retire at an earlier age under the rules in effect before the enactment of the provision changes are assumed to retire when first eligible for an unreduced benefit. This demand is recognized by adding a 10% probability for every year the member has been deferred.

Police and Fire		
Service	Units with the Optional 20-year retirement election	Units without the Optional 20-year retirement election
20	12.0%	
21	10.0%	
22	10.0%	
23	10.0%	
24	12.0%	
25	14.0%	50.0%
26	16.0%	16.0%
27	18.0%	18.0%
28	20.0%	20.0%
29	20.0%	20.0%
30+	35.0%	35.0%

100% of members eligible to retire as of June 30, 2012 are assumed to retire once they reach 35 years of service. All members not eligible to retire as of June 30, 2012 are assumed retire at SSNRA, if eligible.

5. Retirement Rates (unreduced, continued):

For members with 10 or more years of contributory service on June 30, 2012 and that reach their original retirement date within three years of June 30, 2012, 5% are assumed to retire upon first attainment of their original retirement date and receive their benefits accrued as of June 30, 2012.

6. Reduced retirement rates: No early retirements are assumed for police and fire. Rates for general employees are based on the years from Retirement Eligibility for unreduced benefits, as shown below:

Years from Normal Retirement Age	Ret. Rate
5	2%
4	2%
3	2%
2	3%
1	4%

C. Other Assumptions

1. Valuation payroll (used for determining the amortization contribution rate): Prior aggregate fiscal year payroll projected forward one year using the overall payroll growth rate.
2. Percent married: 80% of employees are assumed to be married.
3. For the special post-retirement police and fire survivor benefit, we have assumed 80% of members will have a spouse at the time of retirement and 10% of those members would choose option 1 or option 2.
4. 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.
5. Percent electing annuity on death (when eligible): All of the spouses of vested, married participants are assumed to elect an annuity. The spousal annuity death benefit for vested married participants is valued using optional form conversion factors based on a unisex mortality table.
6. For active death benefits, the liability is initially calculated based on the ordinary death benefit provisions, and then a 7.5% load is applied to account for duty related benefits.
7. 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.
8. Recovery from disability: None assumed.
9. Remarriage: It is assumed that no surviving spouse will remarry and there will be no children's benefit.
10. 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.
11. Investment and administrative expenses: The assumed investment return rate represents the anticipated net return after payment of all investment and administrative expenses.

12. 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.
13. Decrement timing: For all members, decrements are assumed to occur at the middle of the year.
14. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
15. Decrement relativity: Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
16. Incidence of Contributions: Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.
17. Benefit Service: All members are assumed to accrue one year of eligibility service each year.
18. All calculations were performed without regard to the compensation limit in IRC Section 401(a)(17) and the benefit limit under IRC Section 415.

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 active members included name, identification number, sex, a code indicating whether the member was active or inactive, date of birth, service, salary, unit indicator, date of last contribution, accumulated member contributions without interest, accrued benefit multiplier as of June 30, 2014, Final Average Compensation as of June 30, 2012, and the Rhode Island Retirement Security Act Retirement Date. 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.

In defining who was an active member, members with a date of last contribution in the final quarter of the fiscal year were considered active. Otherwise, the member was defined as inactive.

Beneficiary data for police and fire employees was completed, based on the Age Difference stated above, if the information was not originally supplied on the electronic files.

To correct for incomplete and inconsistent data, we first attempted to pull data from prior valuation files and then made general assumptions to complete the rest. 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 Investment Commission 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 designated as such by the municipality, in which case the special contribution and benefit provisions described below will apply to them, or they may be designated as general employees with no special benefits. Members designated as police officers and/or firefighters are treated as belonging to a unit separate from the general employees, with separate contribution rates applicable.

6. Employee Contributions: Effective July 1, 2012, General employees contribute 1.00% 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. 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): Prior to July 1, 2012 and for general employee members eligible to retire as of June 30, 2012, the average was based on the member’s highest three consecutive annual salaries. Effective July 1, 2012, the average was based on the member's highest five consecutive annual salaries. Once a member retires or is terminated, the applicable FAC will be the greater of the member’s highest three year FAC as of July 1, 2012 or the five year FAC as of the retirement/termination date. Monthly benefits are based on one-twelfth of this amount.

11. Retirement:

I. General employees: Eligibility

- a. Members with less than five years of contributory service as of June 30, 2012 and members hired on or after that date are eligible for retirement on or after their Social Security normal retirement age.
- b. Members who had at least five years of contributory service as of June 30, 2012 will be eligible for retirement at an individually determined age. This age is the result of interpolating between the member's prior Retirement Date, described in Section (e) below, and the retirement age applicable to members hired after June 30, 2012 in (a) above. The interpolation is based on service as of June 30, 2012 divided by projected service at the member's prior Retirement Date. The minimum retirement age is 59.
- c. Members with 10 or more years of contributory service on June 30, 2012 may choose to retire at their prior Retirement Date if they continue to work and contribute until that date. If option is elected, the retirement benefit will be calculated using the benefits accrued as of June 30, 2012, i.e., the member will accumulate no additional defined benefits after this date, but the benefit will be paid without any actuarial reduction.
- d. A member who is within five years of reaching their retirement eligibility date, as described in this section, and has 20 or more years of service, may elect to retire at any time with an actuarially reduced benefit.
- e. Prior to July 1, 2012, members were eligible for retirement on or after age 58 if they had credit for 10 or more years of service, or at any age if they had credit for at least 30 years of service. Members eligible to retire before July 1, 2012 were not impacted by the changes to retirement eligibility above.

II. General employees: Monthly Benefit:

- a. 2.00% of the member's monthly FAC for each year of service prior to July 1, 2012 and 1.00% of the member's monthly FAC for each year of service after July 1, 2012. The benefit cannot exceed 75% of the member's monthly FAC.

III. Police and Fire employees: Eligibility

- a. Members are eligible to retire when they are at least 55 years old and have a minimum of 25 years of contributing service. Members with less than 25 years of contributing service are eligible for retirement on or after their Social Security normal retirement age.
- b. Members who, as of June 30, 2012, had at least 10 years of contributing service, had attained age 45, and had a prior Retirement Date (described in Section (e)) before age 52 may retire at age 52.
- c. Active members on June 30, 2012 may choose to retire at their prior Retirement Date if they continue to work and contribute until that date. If option is elected, the retirement benefit will be calculated using the benefits accrued as of June 30, 2012, i.e., the member will accumulate no additional defined benefits after this date, but the benefit will be paid without any actuarial reduction.
- d. A member who is within five years of reaching their retirement eligibility date, as described in this section, and has 20 or more years of service, may elect to retire at any time with an actuarially reduced benefit.
- e. Prior to July 1, 2012, members designated as police officers or firefighters were eligible for retirement 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 were also eligible to retire and receive a reduced benefit if they are at least age 50 and have at least 20 years of service. If the municipality elected to adopt the 20-year retirement provisions for police officers and/or firefighters, then such a member was eligible to retire at any age with 20 or more years of service. Members eligible to retire before July 1, 2012 were not impacted by the changes to retirement eligibility above.

- IV. Police and Fire employees: Monthly Benefit
- a. 2.00% of the member's monthly FAC for each year of service, up to 37.5 years (75% of FAC maximum).
 - b. If the optional 20-year retirement provisions were adopted by the municipality prior to July 1, 2012: 2.50% of the member's monthly FAC for each year of service prior to July 1, 2012 and 2.00% of the member's monthly FAC for each year of service after July 1, 2012. The benefit cannot exceed 75% of the member's monthly FAC.
- V. Payment Form: Benefits are paid as a monthly life annuity. Optional forms of payment are available; see below.
- VI. Death benefit:
- a. 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.
 - b. Special Police/Fire Death Benefit: A member that does not elect an optional form of payment at retirement will be eligible the active member death benefit, which is an annuity of 30% of the member's salary that will be paid to the member's spouse upon death, for life or until remarriage. Children's benefits may also be payable.

12. Disability Retirement

- a. Eligibility: A member is eligible for a disability retirement 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. Effective July 1, 2012, a member with at least 5 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 Social Security normal retirement age provided 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 (5 years, effective July 1, 2012) of service are eligible. Optionally, vested members (described in Item 13, above) may withdraw their accumulated contributions in lieu of the deferred benefits otherwise due.
- b. Benefit: The member who withdraws receives a lump-sum payment 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 9% 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. **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:** For members who retire after June 30, 2012: members will be eligible to receive cost of living increases at the later of the member's third anniversary of retirement and the month following their SSNRA (age 55 for members designated as police officers and/or firefighters). 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).

- a. The COLA will be suspended for any unit whose funding level is less than 80%; however, an interim COLA may be granted in five-year intervals while the COLA is suspended. The first interim COLA may begin January 1, 2018.
- b. The COLA will be determined based on the plan's five-year average investment rate of return minus 5.5% and will range from zero to 4.0%.
- c. The COLA will be limited to the first \$25,000 of the member's annual pension benefit. This limit will be indexed annually to increase in the same manner as COLAs.

18. Special Provisions Applying to Specific Units: Prior to July 1, 2012, some units had specific provisions that apply only to that unit. The transition rules outlined in Item 11, above, apply to these units in a similar manner. 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 $60.00\% \times \text{Final Average Compensation (FAC)}$, plus $1.50\% \times \text{FAC} \times \text{Years of Service in Excess of 20}$, 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.