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SECTION I - SUMMARY OF THE VALUATION

Contribution Requirements

The contribution rates for fiscal year 1993-1994 for each unit in the Municipal Retirement System are set out in Section IV. The rates are split into the normal cost percentage and the past service cost percentage, and for comparison the rates for fiscal years 1991-1992 and 1992-1993 are also shown.

The aggregate employer normal cost for the general employees of all units is \$1.43 million. This represents 1.42% of total general employees payroll. The previous year percentage was 4.0% of payroll. The reduction is mainly due to the revision to the salary growth assumption.

The past service cost for general employees (the annual amount required to pay off the unfunded liabilities) has increased from 1.6% in the previous year to 2.37%. A major component of this increase is due to the increase in liabilities caused by more retirements than anticipated for a number of the units. The large number of retirements can be attributed to many units participating in the 1990 early retirement incentive program. Other factors affecting this result include an investment return for the period marginally less than assumed, a change to the salary growth assumption, and certain participant data corrections.

The combined employer normal cost for police and fire departments is \$0.65 million. This represents 3.93% of police and fire payroll, a reduction from 8% last year. As above, the reduction is mainly due to the change to the salary growth assumption.

The past service cost for police and fire departments in aggregate (the annual amount required to pay off the unfunded liabilities) has decreased from 1.7% last year to 1.53%. There are several factors causing this change with the most predominant factor being the change to the salary growth assumptions.

Please refer to Section IV for a more detailed discussion of these results.

Funded Status

Of the 53 municipalities covering general employees, 30 had unfunded liabilities. Many of these units were recent participants in the System with prior service credits to fund. The total unfunded liability on the valuation date for these units was \$19,259,600.

Of the 32 police and fire departments, 16 had unfunded liabilities. As above most of the units with unfunded liabilities were recent participants in the System with prior service credits to fund. The total unfunded liability for this group on the valuation date was \$2,808,300.

The value of the System's vested benefits for both general employees and policemen and firemen is approximately \$211.8 million. Assets at market value on June 30, 1991 exceeded this amount by \$62.7 million. Last year assets exceeded vested benefit liabilities by \$65.3 million. Because each unit is individually evaluated the surplus plan assets from one unit may not be used to offset the unfunded liabilities from another unit.

Section IV and Exhibit II provide details for each unit and also show vested liabilities and benefit obligations for disclosure as required by Governmental Accounting Standards Board Statement No. 5.

Assets of the Retirement System

As of June 30, 1991 the value of assets for the general employee units was \$238.0 million and for police and fire units it was \$36.5 million. Section III shows an income statement and provides a breakdown of the investments of the System into investment categories.

The table below provides a summary for recent plan years of certain key statistics of the performance and transactions of the retirement fund:

	7/1/90 to 6/30/91	7/1/89 to 6/30/90	7/1/88 to 6/30/89
Investment yield	7.36%	8.33%	17.37%
Value of Reserves at end of period	\$ 274,565,600	\$ 255,038,300	\$ 232,237,200
Total Contributions Investment Income Total Income	16,995,000 <u>18,243,400</u> 35,238,400	15,267,800 <u>19,478,200</u> 34,746,000	13,484,900 <u>33,759,900</u> 47,244,800
Total Benefit Payments	\$ 15,780,400	\$ 11,957,400	\$ 10,854,500

The investment yields should be compared with the assumed return of 8%. The total benefit payments have grown at a faster rate in recent years than the contributions to the plan. However the total income to the fund including investment income still exceeds the benefit outgo.

Actuarial Method and Assumptions

Exhibit IV describes the actuarial method adopted to calculate the contribution rates for each unit and also describes the actuarial assumptions utilized.

For the June 30, 1991 valuation the Retirement Board approved a change to the salary growth assumption. The assumption used in previous years incorporated an agerelated scale of salary increments and was replaced by an assumed salary growth rate of 4.5% per year. The financial effect of the change is discussed in Section IV.

Participant Data

Section II discusses the participant data in detail and Exhibit III provides charts showing key statistics for each unit's participant data.

We received the participant data from the Retirement System. There were 5,191 current active participants in the general employee units and 624 police and firemen. Although both these counts represent increases from the previous year, there were a considerable number of retirements during the past year. The increase is explained by new units participating in the System. The number of current retirees reported was 2,562, up from 2,289 in the previous year.

New Units in the Retirement System

The following units have been included in the valuation of the Municipal Retirement System for the first time as of June 30, 1991:

	Unit	Date of Entry
3005	Charlestown	1/1/90
3044	Southern RI Collaborative	1/1/90
3096	Central Falls Housing	7/1/90
3098	Lime Rock Administrative	7/1/90
3100	Bristol/Warren Schools	7/1/92
4042	Valley Falls Fire	7/1/90
4046	Lime Rock Fire	7/1/90
4047	North Smithfield Fire	7/1/90
4061	Barrington Fire	7/1/92
4094	Bristol Fire	7/1/90
4095	Cumberland Fire	7/1/90
4098	Coventry Fire	7/1/90
4099	Berkley Fire	7/1/90
4100	Tiogue Fire	7/1/90
4101	North Cumberland	7/1/90
4102	Central Coventry Fire	7/1/90
4103	Hopkins Hill Fire	7/1/90
4104	Hope Valley Fire	7/1/91

The Bristol/Warren Schools district unit was created by merging the school department employees of the Bristol and Warren units together. Reserves were transferred to meet benefits accrued to date. The Barrington Fire unit was created by splitting the personnel and assets of the Barrington Police and Fire unit.

Plan Benefits

Plan provisions are summarized in Exhibit V. In the valuation results, Section IV, we have listed which units have adopted a COLA benefit or the 20 year police and fire plan.

There were no further benefit changes reported for this valuation except that the Woonsocket Fire department elected a COLA with an effective date from January 1, 1993.

If certain units for which separate costing have already been done reach a decision to adopt a new benefit structure, the contribution rates incorporated in this report will be altered accordingly.

Smoothed Contribution Rate

No units were eligible for the smoothed contribution rate option for the 1992-1993 fiscal year. Exhibit IV describes the smoothed contribution rate option.

The following units are eligible to elect the option for the 1993-1994 fiscal year.

			Smoothed
	Unit	Contribution Rate	Contribution Rate
3004	Central Falls	15.57%	14.94%
3010	East Providence	12.19%	10.55%
3036	Westerly	73.93%	46.77%
3045	Coventry Lighting		
	District	76.95%	31.60%
3057	Lincoln Housing	10.41%	8.35%
3068	Greenville Water	14.87%	4.46%
3096	Central Falls Housing	26.87%	14.60%

SECTION II - EMPLOYEE DATA

Active Employees

The pertinent information for active employees as of June 30, 1991, can be summarized as follows:

	General	Employees	Policemen and Firemen		
	June 30, 1991	June 30, 1990	June 30, 1991	June 30, 1990	
Number of Covered Employees	5,191	5,162	624	527	
Average Annual Salary	\$19,500	\$19,000	\$26,600	\$27,200	
Average Age (years)	45.9	46.5	34.4	35.0	
Average Service (years)	8.7	9.0	8.0	9.0	
Number of Vested Employee	s 1,816	2,024	175	179	
Number of Employees Eligible for Retirement	570	700	49	58	

When compared to last year a shift in the demographic profile of the active population can be seen. The average annual salary for general employees rose slightly. This represents an increase of 2.6% compared to a 4.9% average increase from June 1989 to June 1990. The average salary for an active policeman or fireman dropped by 2.2% from \$27,200 to \$26,600. The factors contributing to this decline included the addition of new police and fire units to the System whose average salaries are lower than continuing members. In addition retirements, turnover, and pay raises for continuing members lower than assumed contributed to the decline. The large number of retirements during the past year and the entrance of new units to the retirement system contributed to the decreases in average age and in average service.

SECTION II - Employee Data (Cont'd)

Missing data was estimated by using an average for employees with similar available data. For example, a person missing a date of hire, would be given an estimated date of hire based on his date of birth. Active employees missing salaries were given the average salary of all employees who had no data missing. For active general employees there were 280 missing salaries, 30 missing dates of birth, and 53 missing dates of hire. For policemen and firemen there were approximately 34 missing salaries and 4 missing hire dates. The impact varies depending on the individual unit and the data missing from that unit.

Tables 1A and 1B provide a distribution of employees by age and service for general employees and police and firemen, respectively.

Retirees and Beneficiaries

The data provided for retirees and beneficiaries included dates of hire and retirement, sex, monthly benefit, type of benefit, and payment option. The more significant statistics for retirees and beneficiaries are summarized as follows:

	<u>June 30, 1991</u>	<u>June 30, 1990</u>
Pensioners		
Number	2,449	2,186
Average Age	69.0	70.0
Average Monthly Benefit	\$ 492	\$ 411
Beneficiaries		
Number	113	103
Average Age	66.5	67.0
Average Monthly Benefit	\$ 372	\$ 351

SECTION II - Employee Data (Cont'd)

The sizable increase in the average monthly benefit, and the decrease in the average age of pensioners can be attributed in large part to the characteristics of the 319 new pensioners who retired in the 1990-1991 plan year. The average new pensioner was 60.8 years of age and had a monthly benefit of \$997. The increase in average monthly benefits can also be partly attributable to increases caused by cost of living adjustments.

Table 2 shows distributions for pensions in payment status as of June 30, 1991 by age and pension type. This table also indicates total monthly pension payments by age, average payments by age, and total monthly payments by type.

Exhibit III shows a summary of key data statistics for each municipality as of June 30, 1991 and June 30, 1990.

Table 1A - Distribution of Municipal General Employees in Active Service

Years of Service and Average Annual Earnings

Age 0-19	<u>0-4</u> 1 \$17,774	5-9	10-14	15-19	20-24	25-29	30-34	<u>35-39</u>	<u>40 +</u>	<u>Total</u> 1 \$17,774
20-24	130 17,598	3 17,808								133 17,603
25-29	270 18,868	68 21,327	3 19,391							341 19,363
30-34	268 18,131	111 20,623	67 23,115	3 20,405						449 19,506
35-39	310 17,007	159 20,766	105 24,205	68 21,609	8 22,955	1 17,455				651 19,640
40-44	346 17,995	198 19,453	108 23,264	76 25,078	49 26,978	1 42,206				778 20,386
45-49	270 17,451	318 17,403	97 31,776	77 23,133	41 26,102	15 29,025	3 27,734			821 19,157
50-54	180 18,242	133 19,752	161 18,751	106 19,589	47 23,045	19 27,722	6 23,667	1 24,865		653 19,575
55-59	161 18,176	128 19,145	125 20,799	102 21,477	82 20,447	38 19,237	6 22,279	3 29,518		645 19,841
60-64	101 17,477	102 17,585	109 20,206	80 18,851	62 19,692	25 21,164	14 17,147	1 24,000		494 18,792
65-69	27 15,765	27 17,530	28 19,698	40 20,708	34 20,176	14 15,773	3 18,374		1 45,669	174 18,888
70-74	7 15,775	2 5,983	8 22,487	5 17,624	14 20,307	7 10,352	2 14,349			45 17,241
75 +	4 13,947			1 22,568		1 21,351				6 16,618
TOTAL	2,075	1,249	811	558	337	121	34	5	1	5,191
m M. Mercer.	Incorporated	\$15,005	921,304	421,304	422,333	\$21,459	\$20,081	\$27,484	\$45,669	\$19,480

Table 1B - Distribution of Policemen and Firemen in Active Service

Years of Service and Average Annual Earnings

<u>Age</u> 0-19	<u>0-4</u> 1 \$19,240	5-9	10-14	<u>15-19</u>	20-24	25-29	<u>30-34</u>	<u>35-39</u>	<u>40 +</u>	<u>Total</u> 1 \$19,240
20-24	63 23,304	4 22,956								67 23,284
25-29	122 24,392	33 26,722								155 24,888
30-34	64 24,150	58 27,602	22 28,570	1 25,942						145 26,214
35-39	17 21,093	41 27,511	28 28,396	14 32,893	1 31,407					101 27,461
40-44	7 22,693	8 28,297	11 26,165	18 31,389	13 30,044					57 28,572
45-49	4 29,524	11 26,895	4 30,454	14 29,522	16 30,561	4 38,716				53 30,055
50-54	3 29,934	1 27,560	2 39,881	3 30,780	12 29,119	2 32,322	1 29,467			24 30,542
55-59	3 25,311	1 36,750	2 32,513	1 5,400	5 29,028	2 33,083		1 38,976		15 28,893
60-64	1 28,000	1 40,517				1 27,482				3 32,000
65-69					1 30,000	2 30,000				30,000
70-74										0
75+					10				0	624
TOTAL	285 \$23,993	158 \$27,403	69 \$28,668	\$30,637	48 \$29,907	\$33,923	\$29,467	\$38,976	0	\$26,579

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Table 2 - Distribution of Retirees and Beneficiaries

Number of Pensioners and Total Monthly Pensions Paid by Age

		Pension				
A.00	Service	Papafiniarian	Accidental	Ordinary	Total by	Percent of Pensioners/
WHE	neurements	Denencianes	Disabilities	Disabilities	MAC	Average renatori
< 30	0	1	0	0	1	0.04%
	\$ 0	\$ 290	\$ 0	\$ 0	\$ 290	\$ 290
30-39	0	2	2	4	8	0.31%
	0	1,074	2,555	1,770	5,398	675
40-49	28	5	5	14	52	2.03%
	40,779	3,423	4,198	5,059	53,459	1,028
50-54	33	5	10	12	60	2.34%
	57,008	2,832	7,106	3,287	70,232	1,171
55-59	94	14	8	25	141	5.50%
	100.371	5,227	6,948	7,476	120,023	851
60-64	394	14	11	24	443	17.29%
00 04	281.837	5,429	9,252	7,275	303,794	686
65-69	661	26	11	22	720	28.10%
05-05	320 896	10.060	7,321	5,620	343,897	633
70.74	506	21	4	12	543	21.19%
10-14	189 807	5.834	1,971	2,252	199,864	368
75 70	309	16	3	4	332	12.96%
15-19	86 235	4.533	1,097	701	92,565	279
00.04	164	8	1	1	174	6.79%
80-84	40.001	3 266	382	95	43,834	252
	40,091	1	1	2	69	2.69%
85-89	00	69	335	51	11,464	166
	11,010	0.5	0	1	16	0.62%
90-94	15	0	0	52	2,419	151
	2,366	0	0	0	3	0.12%
95+	3	0	0	0	398	133
	398	0	0			
		110	56	120	2,562	
Total	2,273	113	¢ 51 165	\$ 33,638	\$1,247,638	\$ 487
	\$ 1 130,799	\$ 42,036	\$ 51,105	4 001000		

SECTION III - PLAN ASSETS

The Fund receives all member and employer contributions. The assets are invested by the State Investment Commission, with the investment earnings being added to the Fund and available for reinvestment. Payments from the Fund are primarily for refunds of employee contributions, lump sum death benefits, and pension payments. Contribution refunds occur when an employee terminates employment before completing 10 years of service and elects to take a refund, or when he or she dies after retirement without having received payments from the Fund equal to his or her total contributions.

During fiscal 1991 the investment earnings represented 7.36% of the average assets of the Fund during the fiscal year. The yield for the previous fiscal year was 8.33%.

Table 3 provides a summary of income and expenses for the years ended June 30, 1991 and 1990. For the plan year ended June 30, 1991 the Municipal Employees' Retirement Fund showed a net increase of \$19,527,156 from \$255,038,482 to \$274,565,638.

Table 4 provides a distribution of the assets by category of investment. As of June 30, 1991, the Fund was comprised of 43.9% equities, 43.6% fixed income securities, with the balance, 12.5%, held in cash, short term paper, and other highly liquid assets.

The financial statements indicate that 87% of the assets are allocated to general employees and 13% are for police and firemen. There is also a small unallocated reserve for unclaimed benefits. Table 5 shows the allocation of assets in detail.

The value of assets utilized in the valuation to assess the contribution rates, called the actuarial asset value, is equal to the market value of assets held by the fund at the valuation date.

	T	abl	e 3		
Summary	Statement	of	Income	and	Expenses

		1001			1990	
Employer contributions Member contributions Total contributions Net miscellaneous items	\$ 9,556,174 <u>7,438,860</u> \$	16,995,034 69,150		\$ 8,360,137 <u>6,907,680</u>	\$15,267,817 12,674	
Investment income: Dividends Interest Capital gains Net transfers less expenses Net investment income	\$ 4,769,066 12,666,894 1,432,728 _(625,297)	18,243,391		\$ 4,798,265 11,099,821 3,314,761 <u>265,385</u>	<u>19,478,232</u>	
Total income available for benefit payments			\$35,307,575			\$34,758,723
Pension benefits Death benefits	\$*	15,094,511 121,600 <u>564,308</u>			\$11,140,311 163,200 <u>653,895</u>	
Total benefit payments Excess of income over expenses			<u>15,780,419</u> \$ <u>19,527,156</u>			<u>11,957,406</u> \$ <u>22,801,317</u>

Note: Detail figures may not add to totals shown because of rounding.

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Table 4Plan Assets as of the Valuation Date

	1991	1	1990		
Cash	\$ 2,521,3	16	\$ (299,628)		
Accrued interest receivable	2,451,57	75	2,249,549		
Investments:					
STIF	\$ 26,352,000	\$ 17,064,000			
Fixed income	119,774,127	96,058,191			
Equities	120,466,621	133,976,370			
Short term paper	3,000,000	5,990,000			
	269,592,74	.8	253,088,561		
Total assets	\$ 274,565,633	8	\$ <u>255,038,482</u>		

Note: Figures may not add to totals due to rounding. Numbers in brackets represent negative amounts.

Table 5 Allocation of Assets by Plan

	1991	1990
General Employees:		
Retirement reserves Employer reserves Member reserves Total General Employee Reserves	\$237,040,435 (34,696,824) <u>35,637,037</u> \$ 237,980,648	\$200,637,124 (12,460,429) _ <u>34,144,961</u> \$ 222,321,656
Police and Fire:		
Retirement reserves Employer reserves Member reserves Total Police and Fire Reserves	<pre>\$ 34,823,602 (3,975,867)5,698,162 36,545,897</pre>	<pre>\$ 26,638,433</pre>
Unallocated:		
Unclaimed benefit reserve Total Assets	<u> </u>	<u>38,893</u> \$ 255,038,482

Note: Numbers in brackets represent negative amounts.

SECTION IV - RESULTS OF THE VALUATION

The table below sets out the results of the valuation in the aggregate.

General Employees

5

The costs for general employees as of June 30, 1991 developed as follows:

	ltem	Amount	% of 1991 Payroll	<u>1990</u>
1.	Participating payroll	\$ 101,146,700		
2.	Employer normal cost	1,433,600	1.42%	4.0%
3.	Amortization of unfunded actuarial liability	2,398,800	2.37%	1.6%
4.	Total annual cost if paid July 1, 1990 = 2. + 3.	3,832,400	3.79%	5.6%
5.	Total annual cost payable monthly = 5. plus 1/2 year interest	3,985,700	3.94%	5.8%

Police and Fire

The costs for police and fire as of June 30, 1991 developed as follows:

	ltem	Amount	% of <u>1991 Payroll</u>	<u>1990</u>
1.	Participating payroll	\$ 16,585,200	***	
2.	Employer normal cost	649,900	3.92%	8.0%
З.	Amortization of unfunded actuarial liability	253,700	1.53%	1.7%
4.	Total annual cost if paid July 1, 1990 = 2. + 3.	903,600	5.45%	9.7%
5.	Total annual cost payable monthly = 5, plus 1/2 year interest	939,700	5.67%	10.1%

Note: Detail figures may not add to totals shown because of rounding.

SECTION IV - RESULTS OF THE VALUATION (Cont'd)

The reduction seen in the employer normal cost is mainly due to the change to the salary growth assumption. The effect of the decrease has been leveraged by the employee contributions. The total normal cost for general employees equals 1.42% employer plus employee contributions to give a total of approximately 7.5% of payroll. The comparable figure last year was 10.0% of payroll. The effect of the salary scale change has therefore reduced costs by 25%.

Similarly for police and fire departments, the total normal cost is approximately 12.0% (4% employer plus 8% employee) of payroll compared to 16.0% last year (assuming on average an employee contribution rate of 8.0%). The salary scale change causes a 25% drop in the normal cost.

The funding method calculates a normal cost which remains level as a percentage of payroll over each participant's working life. The normal cost percentage for the whole System will remain stable if the average age at entry remains stable. Despite the number of retirements during the last year and the introduction of new units to the System, the average age at entry has remained stable. Both the average age and the average service completed by the active participants have reduced by similar amounts. Therefore the changes to the participant data due to turnover, new entrants and retirements have had no impact on the normal cost percentage.

There were large numbers of retirements with participants entitled to unreduced benefits at ages earlier than assumed. As a result, liabilities increased more than expected.

Exhibit I shows that the total unfunded liability for general employees was \$19,259,600 and for policemen and firemen it was \$2,808,300. These figures equal the sum of the individual municipalities unfunded liabilities with negative unfunded liabilities (i.e. overfunded) for certain units set equal to zero.

SECTION IV - RESULTS OF THE VALUATION (Cont'd)

Table 6 shows the normal cost and past service cost for each unit and also the employer costs produced by the previous two actuarial valuations.

Table 7 shows each unit's reserves, accrued liabilities, vested liabilities and amortization period.

Exhibit I shows that in aggregate the assets cover the value of vested liabilities. However there are a number of units which have large unfunded vested liabilities such as Central Falls and East Providence.

As mentioned above certain units experienced large numbers of retirements during the last year. In most of these cases the contribution rates did not follow the trend of reducing costs, in fact the rates increased. For example, East Providence is a relatively large unit and the substantial increase to liabilities has caused the employer's cost to double since last year.

GASB Disclosure Information

Exhibit II provides the pension benefit obligation amounts required for disclosure by the Governmental Accounting Standards Board (GASB) Statement No. 5. Liabilities are shown in the aggregate and for each unit separately.

For plan years beginning after December 15, 1986, the Retirement System is subject to the disclosure requirements of Statement No. 5 of the Governmental Accounting Standards Board (GASB). The Statement requires the calculation of a standardized measure called the "pension benefit obligation" which is independent of the actuarial funding method. This amount is the actuarial present value of projected benefits prorated by service credited to date. It differs from the "value of vested benefits" due to:

- future salary increases,
- inclusion of non-vested benefit, and
- proration of benefits over projected service.

For the entire Retirement System, the "pension benefit obligation" as of June 30, 1991 has been determined to be \$253,386,800. Approximately 46% of this amount is attributable to benefits on behalf of active employees with the balance 54% attributable to the benefits of pensioners and inactive employees not yet receiving benefits. The large swing in liability from active participants to the retiree group reflects the recent number of retirements experienced by the System.

Table 6 - Recommended Employer Contribution Rates

		YEAR BEG	INNING JULY	1, 1993	Total Rates	for the
		NORMAL	DACT	TOTAL	Years Begi	nning
MUNICIPALITY		COST	SERVICE	DATE	hilu 1 1000 1	ulu 1 1001
General Employees		0001	OLITIOL	TALE	JULY 1, 1992 J	uly 1,1991
1 Barrington		2 01%	0.00%	0.010	0.700/	0 700
2 Bristol	B 1	0.86%	0.00%	2.01%	3.72%	3.72%
3 Burrillville	C	3 81%	A 016/	0.00%	4.04%	5.12%
4 Central Falls	~	0.87%	14 700/	0.02%	11.78%	12.60%
5 Charlestown	C	0.80%	0.000/	13,37%	12.94%	12.01%
7.0	U	0.0376	8.00%	8.80%	8.25%	8.25%
7 Granston	В	1.74%	0.00%	1.74%	4.42%	5.42%
o Cumberland		3.88%	2.91%	6.79%	10.31%	10.76%
10 East Greenwich		1.91%	0.00%	1.91%	3.81%	3.79%
11 Exercise Allest Oceanist	B,2	2.81%	9.38%	12.19%	6.10%	5.65%
TI Exeler west Greenwich		3.83%	0.00%	3.83%	9.39%	9.21%
12 Foster		1.80%	5.56%	7.36%	8.16%	8.55%
13 Glocester		3.41%	0.00%	3.41%	6.29%	6.75%
14 Hopkinton		1.72%	0.00%	1.72%	3.85%	4.49%
15 Jamestown	С	0.77%	0.29%	1.06%	3.68%	3.89%
16 Johnston		2.18%	0.00%	2.18%	3.94%	3.96%
21 Newport	R	0.68%	7 40%	0 170/	10 710/	10 100/
22 New Shoreham	U	1 63%	7.49%	0.1/70	12.7170	12.19%
23 North Kingstown		1.87%	1 13%	3.00%	4.20%	4.92%
24 North Providence		1 72%	0.89%	2 61%	3.00%	3 53%
25 North Smithfield		3.03%	0.00%	3.03%	4.67%	A 78%
		0.0070	0.0070	0.00 %	4.0170	4.1010
26 Pawtucket		1.34%	1.29%	2.63%	4.84%	6.03%
29 Richmond		3.48%	3.50%	6.98%	9.26%	9.57%
30 Scituate	B	2.49%	3.90%	6.39%	9.10%	7.29%
31 Smithfield		2.69%	0.00%	2.69%	4.31%	4.47%
32 South Kingstown		1.37%	0.00%	1.37%	3.42%	3.38%
33 Tiverton		3.34%	0.00%	3.34%	4.74%	4.92%
34 Warren	1	2.11%	0.00%	2.11%	4.48%	4.41%
36 Westerly	2	2.13%	71.80%	73.93%	42.89%	45.32%
37 West Greenwich	-	4.71%	0.53%	5.24%	17.93%	19.97%
39 Woonsocket		2.25%	0.00%	2.25%	3.98%	3.89%
40 Chariho School Dist.		2.52%	1.81%	4.33%	6.39%	7.96%
41 Foster/Glocester		5.93%	0.45%	6.38%	12.09%	14.76%
44 Southern RI Collaborative		0.00%	0.00%	0.00%	5.62%	5.62%
45 Coventry Lighting Dist.	2	1.02%	75.93%	76.95%	25.12%	25.12%
46 Hope Valley Fire	С	6.70%	13.02%	19.72%	26.36%	
51 Cranston Housing		3.72%	0.00%	3.72%	4.70%	4.65%
52 East Providence Housing		4.12%	1.13%	5.25%	5.96%	5.91%
53 Pawtucket Housing		1.44%	0.00%	1.44%	3.38%	3.41%
56 Cumberland Housing		2.62%	2.46%	5.08%	3.10%	3.81%
57 Lincoln Housing	B,2	5.92%	4.49%	10.41%	6.35%	6.17%
		0 400/	0.00%	2 48%	4 40%	4 84%
59 Bristol Housing		2.40 /0	0.00%	3 25%	4 17%	4.00%
65 Burnilville Housing		3 170/	0.00%	3.47%	4 55%	4 29%
66 North Providence Housing		6 01%	3 24%	9.45%	9.10%	8.86%
67 East Smithtield Water	0	0.21%	14 87%	14.87%	2.46%	3.29%
68 Greenville Water	2	0.00%	14,0170	14.0170		erae re
71 Warren Housing		3.89%	0.00%	3.89%	4.69%	4.68%
72 Johnston Housing		3.72%	0.00%	3.72%	5.29%	5.20%
79 Coventry Housing		4.28%	2.31%	6.59%	10.19%	10.76%
83 West Warwick Housing		3.11%	2.16%	5.27%	7.60%	7.77%
84 Smithfield Housing		0.00%	0.08%	0.08%	2.24%	3.97%
	-	0.400	22 449/	26 87%	12.60%	12.60%
96 Central Falls Housing	2	3.43%	1 50%	1 58%	1.36%	1.36%
98 Lime Hock Administrative Svcs.	4	0.00%	0.00%	3 15%	3.72%	
100 Bristol/Warren Schools		3.10%	0.0070			

Table 6 - Recommended Employer Contribution Rates

	YEAR BEGI	NNING JULY 1,	1993	Total Rates for the Years Beginning		
		NORMAL	PAST	TOTAL		
MUNICIPALITY		COST	SERVICE	RATE	July 1, 1992 Jul	y 1,1991
Police and Fire 42 Valley Falls Fire 46 Lime Rock Fire 47 North Smithfield Vol. Fire 50 East Greenwich Fire 54 East Greenwich Police	D D D	2.80% 1.68% 5.31% 5.63% 5.73%	17.59% 2.63% 2.07% 0.00% 0.00%	20.39% 4.31% 7.38% 5.63% 5.73%	27.56% 8.24% 9.16% 9.37% 9.09%	27.56% 8.24% 9.16% 11.15% 13.00%
 55 North Kingstown Fire 58 North Providence Police & Fire 60 Barrington Police 61 Barrington Fire 62 Warren Police 	D 3 3 D	4.60% 5.10% 2.52% 3.08% 7.10%	2.26% 0.00% 0.00% 0.00% 4.77%	6.86% 5.10% 2.52% 3.08% 11.87%	11.34% 11.56% 5.99% 5.99% 18.75%	10.73% 13.06% 5.95% 5.95% 18.26%
63 South Kingstown Police & Fire 64 Primrose Volunteer Fire 76 North Smithfield Police 77 Tiverton Fire 82 Foster Police		2.93% 5.40% 5.04% 6.06% 4.59%	0.00% 0.00% 0.00% 0.00% 0.00%	2.93% 5.40% 5.04% 6.06% 4.59%	6.14% 9.28% 9.30% 13.72% 9.81%	6.17% 9.56% 8.54% 10.70% 9.15%
85 Woonsocket Police 86 Charlestown Police 87 Hopkinton Police 88 Glocester Police 89 West Greenwich Police	C,D D D	6.24% 4.20% 3.05% 4.22% 2.98%	0.56% 0.00% 0.00% 6.47%	5.80% 4.20% 3.05% 4.22% 9.45%	12.04% 9.36% 9.19% 9.55% 15.63%	11.87% 9.77% 10.01% 9.61% 17.72%
90 Burrillville Police 91 Cumberland Police 92 Washington Fire 93 Woonsocket Fire 94 Bristol Fire	D C.D.4	9.59% 2.91% 3.05% 7.48% 6.42%	0.00% 0.00% 3.10% 1.87% 0.00%	9.59% 2.91% 6.15% 9.35% 6.42%	14.79% 5.40% 10.95% 6.76% 11.80%	15.66% 5.41% 7.17% 4.14% 11.80%
95 Cumberland Hill Fire 98 Coventry Fire 99 Berkley Fire 100 Tiogue Fire 101 North Cumberland		3.21% 3.29% 4.50% 3.23% 2.40%	3.18% 11.03% 7.43% 8.02% 5.91%	6.39% 14.32% 11.93% 11.25% 8.31%	12.76% 21.65% 17.97% 14.10% 11.37%	12.76% 21.65% 17.97% 14.10% 11.37%
102 Central Coventry Fire 103 Hopkins Hill Fire		3.02%	% 8.32% % 0.52%	11.34%	17.20% 6.02%	17.20%

NOTES

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 - Bristol/Warren Schools formed from Bristol and Warren.

2 - These municipalities all had contribution rate increases in excess of 2.00% and may choose to adopt smoothed contributions.

3 - Barrington Police and Barrington Fire were previously a single unit.

4 - Woonsocket Fire adopted COLA Plan C effective 7/1/92.

Table 7 - Liabilities and Funded Status as of June 30, 1991

MUNICIPALITY		TOTAL RESERVES	TOTAL ACCRUED LIABILITY	VESTED	TOTAL UNFUNDED LIABILITY	UNFUNDED VESTED LIABILITY	AMORTIZATION
General Employees 1 Barrington 2 Bristol 3 Burrillville 4 Central Falls 5 Charlestown	B,1 C	\$8,286,574 5,761,039 4,951,469 295,821 0	\$7,480,148 4,935,037 4,875,909 1,811,815 461,183	\$5,586,259 3,619,677 3,158,024 1,274,325 209,185	\$0 0 1,515,994 461,183	\$0 0 978,504 209,185	0 0 23 24
7 Cranston 8 Cumberland 9 East Greenwich 10 East Providence 11 Exeter/West Greenwich	B	39,585,793 4,528,506 5,748,282 27,740,885 770,680	39,088,186 5,862,972 4,826,839 35,732,425 702,559	26,351,176 3,716,133 3,339,148 28,496,175	0 1,334,466 0 7,991,540	0 0 755,290	0 24 0
12 Foster 13 Glocester 14 Hopkinton 15 Jamestown 16 Johnston	С	587,163 622,629 717,833 1,745,088	850,511 609,478 569,839 1,773,419	494,606 273,344 347,346 1,066,854 7,531,401	263,348 0 28,331	000000000000000000000000000000000000000	15 0 0
21 Newport 22 New Shoreham 23 North Kingstown 24 North Providence 25 North Smithfield	В	15,100,383 468,976 9,343,395 8,002,846 3,860,035	19,033,076 634,780 9,871,218 8,329,558 2,994,607	12,829,310 304,604 6,683,081 5,612,611 2,205,842	3,932,693 165,804 527,823 326,712	000000000000000000000000000000000000000	11 14 0
26 Pawtucket 29 Richmond 30 Scituate 31 Smithfield 32 South Kingstown	В	31,910,260 175,984 2,707,880 6,094,882 7,752,695	32,128,079 247,270 2,962,372 5,312,571 7,350,413	23,856,993 134,306 2,084,907 3,706,462 3,828,610	217,819 71,286 254,492 0	000000000000000000000000000000000000000	11 13 11 0
33 Tiverton 34 Warren 36 Westerly 37 West Greenwich 39 Woonsocket	1	4,041,051 3,179,784 528,268 199,094 21,106,423	3,634,603 3,114,826 1,156,143 228,850 19,079,343	2,668,631 2,715,432 1,051,136 132,411 14,117,140	0 0 627,875 29,756 0	0 0 522,868 0 0	0 0 11 22 0
 40 Chariho School Dist. 41 Foster/Glocester 44 Southern RI Collaborative 45 Coventry Lighting Dist. 46 Hope Valley Fire 	с	1,217,552 630,861 1,032 24,694 0	1,483,734 676,199 1,288 367,839 45,182	704,586 308,036 0 296,713 0	266,182 45,338 256 343,145 45,182	0 0 272,019 0	15 19 24 24
51 Cranston Housing 52 East Providence Housing 53 Pawtucket Housing 56 Cumberland Housing 57 Lincoln Housing	в	717,216 651,666 2,766,364 410,803 435,670	601,677 672,667 1,936,591 463,391 505,348	433,988 509,626 1,505,609 409,881 405,414	0 21,001 0 52,588 69,678	000000000000000000000000000000000000000	000000000000000000000000000000000000000
59 Bristol Housing 65 Burrillville Housing 66 North Providence Housing 67 East Smithfield Water 68 Greenville Water		377,671 135,338 215,828 105,222 205,736	309,628 65,074 146,500 123,841 333,530	183,877 0 76,779 55,918 245,188	0 0 18,619 127,794	0 0 0 39 452	0 0 0 15
71 Warren Housing72 Johnston Housing79 Coventry Housing83 West Warwick Housing84 Smithfield Housing		226,159 269,440 254,753 222,026 60,244	200,420 197,746 274,834 238,737 60,383	108,368 157,692 221,620 147,132 53,320	0 0 20,081 16,711 139	000000000000000000000000000000000000000	0 0 11 15
96 Central Falls Housing 98 Lime Rock Administrative Svcs. 100 Bristol/Warren Schools	1	295,572 0 2,510,788	774,277 5,090 2,123,161	682,182 0 1,074,401	478,705 5,090 0	386,610 0 0	24 0 0

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Table 7 - Liabilities and Funded Status as of June 30, 1991

MUNICIPALITY Police and Fire		TOTAL RESERVES	TOTAL ACCRUED LIABILITY	VESTED LIABILITY	TOTAL UNFUNDED LIABILITY	UNFUNDED VESTED LIABILITY	
42 Valley Falls Fire 46 Lime Rock Fire 47 North Smithfield Vol. Fire 50 East Greenwich Fire 54 East Greenwich Police	D D D	\$0 59,259 44,247 2,212,695 2,742,944	\$366,507 100,080 131,072 2,175,241 2,246,700	\$13,711 716 5,970 1,790,415 1,586,198	\$366,507 40,821 86,825 0	\$13,711 0 0 0	24 24 0
55 North Kingstown Fire 58 North Providence Police & Fire 60 Barrington Police 61 Barrington Fire 62 Warren Police	D D 2 2 D	6,942,836 3,594,584 2,750,170 3,986,391 2,051,277	7,513,178 2,947,405 2,691,524 3,590,407 2,085,749	5,760,691 1,166,559 2,069,574 2,755,071 1,443,428	570,342 0 0 0 34 472	000000000000000000000000000000000000000	7 0 0
63 South Kingstown Police & Fire 64 Primrose Volunteer Fire 76 North Smithfield Police 77 Tiverton Fire 82 Foster Police	DDDDD	4,239,731 411,516 1,366,125 1,805,863 348,969	3,258,854 238,902 1,221,470 1,640,716 297,988	2,112,434 93,750 682,991 1,147,973 160,583	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0000
85 Woonsocket Police 86 Charlestown Police 87 Hopkinton Police 88 Glocester Police 89 West Greenwich Police	C,D D D	1,197,278 339,512 245,102 257,475 132,187	1,365,699 256,543 162,772 177,603 233,111	219,977 83,526 31,381 46,243 81,815	168,421 0 0 100,924	000000000000000000000000000000000000000	000000000000000000000000000000000000000
90 Burrillville Police 91 Cumberland Police 92 Washington Fire 93 Woonsocket Fire 94 Bristol Fire	D C,D	906,248 191,256 45,265 332,284 5,693	291,370 59,255 100,190 714,985 3,505	114,680 443 7,838 0	0 0 54,925 382,701	000000000000000000000000000000000000000	0 0 23 23
95 Cumberland Hill Fire 98 Coventry Fire 99 Berkley Fire 100 Tiogue Fire 101 North Cumberland		161,080 65,292 27,786 0 0	299,857 260,444 108,882 94,934 274,393	6,333 42,829 36,146 0 4,733	0 138,777 195,152 81,096 94,934	0 0 8,360 0	0 24 24 24
102 Central Coventry Fire 103 Hopkins Hill Fire		0	211,389 6,601	0	211,389 6,601	4,733 0 0	24 24 24

NOTES

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 - Bristol/Warren Schools formed from Bristol and Warren.

2 - Barrington Police and Barrington Fire were previously a single unit.

MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF THE STATE OF RHODE ISLAND

CERTIFICATE OF ACTUARIAL VALUATION

This is to certify that we have prepared an actuarial valuation of the plan as of June 30, 1991.

This certificate contains the following attached exhibits:

EXHIBIT I - Actuarial Cost Factors as of June 30, 1991

- A. General employees
- B. Police and firemen
- EXHIBIT II Pension Benefit Obligation
- EXHIBIT III Participant Information

EXHIBIT IV - Actuarial Assumptions and Cost Method

EXHIBIT V - Summary of Plan Provisions

To the best of our knowledge, the information supplied in this actuarial valuation is complete and accurate (except as noted in Exhibit I) and in our opinion the assumptions used in the aggregate (a) are reasonably related to the experience of the plan and to reasonable expectations and (b) represent our best estimate of anticipated experience under the plan.

Malcolm C. Hodge, F.F.A. Associate

Barry M. Gjilman, F.S.A Principal

EXHIBIT I - ACTUARIAL COST FACTORS AS OF JUNE 30, 1991

A. GENERAL EMPLOYEES

The valuation was made with respect to the following data supplied to us by the Retirement Board:

- a. 5,191 active participants (including 1,816 fully vested) with total annual salaries of \$101,146,700)
- b. 854 inactive participants
- 2,416 pensioners (including 86 beneficiaries of deceased pensioners and active employees)

The cost factors as of the valuation date are as follows:

1.	Total normal cost		\$	7,933,100	
2.	Projected employee contributions			6,499,500	
3.	Employer normal cost			1,433,600	
4.	Actuarial liability Active employees Inactive employees Pensioners (including beneficiaries of deceased pensioners and active employees) Total	\$ 126,167,90 2,194,60 119,182,3	00 00 (a) 00	247,544,800	
5.	Assets			237,980,600	
6.	Unfunded actuarial liability			19,259,600	(b)
	Liability for accrued vested benefits:	\$ 187,060,8	300 (c)		

(a) The liability for inactive participants is equal to their outstanding contributions.

(b) Equal to the sum of the individual municipalities unfunded liabilities with negative unfunded liabilities for certain units set equal to zero.

(c) The liability for accrued vested benefits is based on the same retirement age assumptions as are costs, following the procedure required by Statement No. 5 of the Governmental Accounting Standards Board.

(d) Detail figures may not add to totals shown because of rounding,

EXHIBIT I - ACTUARIAL COST FACTORS AS OF JUNE 30, 1991 (Cont'd)

B. POLICE AND FIRE

The valuation was made with respect to the following data supplied to us by the Retirement Board:

- a. 624 active participants (including 175 fully vested) with total annual salaries of \$16,585,200)
- b. 23 inactive participants
- c. 146 pensioners (including 27 beneficiaries of deceased pensioners and active employees)

The cost factors as of the valuation date are as follows:

1.	Total normal cost		\$	1,952,400	
2.	Projected employee contributions			1,303,500	
3.	Employer normal cost			649,900	
4.	Actuarial liability Active employees Inactive employees Pensioners (including beneficiaries of deceased pensioners and active employees) Total	\$ 20,280,000 95,600 14,805,400	(a)	35,181,000	
5.	Assets			36,545,900	
6.	Unfunded actuarial liability			2,808,300	(1
	Liability for accrued vested benefits:	\$ 23,939,200	(c)		

(a) The liability for inactive employees is equal to their outstanding contributions.

(b) Equal to the sum of the individual municipalities unfunded liabilities with negative unfunded liabilities for certain units set equal to zero.

(c) The liability for accrued vested benefits is based on the same retirement age assumptions as are costs, following the procedure required by Statement No. 5 of the Governmental Accounting Standards Board.

(d) Detail figures may not add to totals shown because of rounding.

EXHIBIT II - PENSION BENEFIT OBLIGATION

The value of the pension benefit obligation required for disclosure by Statement No. 5 of the Governmental Accounting Standards Board is shown below as of June 30, 1991.

		Pens	ion Benefit Obliga	tion
		General Employees	Police and 	Total
1.	Participants currently receiving benefits and terminated employees not yet receiving benefits	\$ 121,347,200	\$ 14,847,100	\$ 136,194,300
2.	Current employees			
	Accumulated employee contributions Employer-financed vested Employer-financed nonvested	35,637,000 30,076,600 34,023,000	5,698,000 3,394,100 <u>8,363,800</u>	41,335,000 33,470,700 <u>42,386,800</u>
3.	Total pension benefit obligation	\$ 221,083,800	\$ 32,303,000	\$ 253,386,800

Note: Detail figures may not add to totals shown because of rounding.

Exhibit II - PENSION BENEFIT OBLIGATION (Cont'd)

Pension Benefit Obligation as of June 30, 1991 by Plan

		RETIREE AND INACTIVE	ACCUMULATED EMPLOYEE	EMPLOYER FINANCED VESTED	EMPLOYER FINANCED NON-VESTED	TOTAL BENEFIT OBLIGATION
MUNICIPALITY		LIABILITY	CONTRIBUTION	100100		
Seneral Employees 1 Barrington 2 Bristol 3 Burrillville	B,1 C	\$4,120,000 2,774,600 2,128,900	\$1,093,500 662,800 801,700 74,600	\$654,900 431,000 604,600 242,600	\$898,100 528,800 794,700 279,500	\$6,766,500 4,397,200 4,329,900 1,587,100
4 Central Falls 5 Charlestown	C	990,400	0	209,200	169,200	378,400
7 Cranston 8 Cumberland 9 East Greenwich	В	15,826,200 3,025,200 1,800,500	6,254,900 738,700 893,900	6,116,900 578,300 987,200	5,949,800 982,000 612,100 3,635,000	34,147,800 5,324,200 4,293,700 33,129,700
10 East Providence 11 Exeter/West Greenwich	В	23,809,300	3,008,700	10,900	238,400	580,200
12 Foster 13 Glocester 14 Hopkinton		424,300 273,300 250,000	133,500 142,500 111,900	8,900 0 41,500	161,800 109,600 93,700	728,500 525,400 497,100
15 Jamestown 16 Johnston	С	665,000 4,454,300	280,100	235,500	1,324,900	9,269,000
21 Newport 22 New Shoreham 23 North Kingstown 24 North Providence	В	8,463,900 236,500 5,028,600 3,184,000	2,672,900 91,500 1,504,200 1,467,200	2,177,000 31,900 812,600 1,435,600 441,900	3,099,600 150,100 1,369,300 1,276,100 292,400	16,413,400 510,000 8,714,700 7,362,900 2,741,000
26 Pawtucket 29 Richmond 30 Scituate	в	16,686,200 108,600 1,320,700	5,312,600 5,312,600 36,100 426,600	3,053,700 17,100 430,800	3,950,000 51,100 458,700	29,002,500 212,900 2,636,800
31 Smithfield 32 South Kingstown		2,472,40	0 840,600	941,300	1,632,700	6,000,900
33 Tiverton 34 Warren 36 Westerly 37 West Greenwich 39 Woonsocket	1	1,845,80 2,063,40 860,50 132,40 10,203,30	0 510,800 0 255,600 0 87,800 0 49,300 0 2,553,700	516,900 444,500 117,900 0 2,204,300	455,400 210,200 56,000 23,900 2,388,500	3,328,900 2,973,700 1,122,200 205,600 17,349,800
40 Chariho School Dist 41 Foster/Glocester 44 Southern RI Collaborative 45 Coventry Lighting Dist 46 Hope Valley Fire	с	417,10 302,00	0 298,200 0 144,200 0 500 0 4,600 0 0	198,700 0 0 0 291,700	281,200 158,700 (100 41,800 43,000	1,195,200 604,900 400 338,100 43,000
51 Cranston Housing 52 East Providence Housing 53 Pawtucket Housing 56 Cumberland Housing 57 Lincoln Housing	в	393,80 379,80 1,250,20 379,20 352,30	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	0 13,000 0 93,500 0 102,200 0 8,800 0 37,000	59,500 76,000 91,400 7,800 57,900	550,300 626,400 1,768,200 440,000 487,300
59 Bristol Housing 65 Burrillville Housing 66 North Providence Housing 67 East Smithfield Water 68 Greenville Water		70,20 26,50 55,90	00 60,600 0 23,500 00 57,800 00 20,400 0 49,100	0 60,100 0 15,200 0 206,900	0 72,000 0 24,000 0 21,300 0 39,700 0 39,500	262,900 47,500 120,800 116,000 295,500
71 Warren Housing 72 Johnston Housing 79 Coventry Housing 83 West Warwick Housing 84 Smithfield Housing		148,8 169,0 104,2 53,3	0 50,90 00 25,80 00 32,30 00 43,40 00 5,40	0 71,00 0 (9.30 0 34,70 0 26,40 0	0 49,300 0) 17,800 0 22,900 0 32,900 0 (1,500)	171,200 183,100 258,900 206,900 57,200
96 Central Falls Housing 98 Lime Rock Administrative Sv 100 Bristol/Warren Schools	cs. 1	545,0	00 9,30 0 0 528,00	0 130,40 0 700,00	0 64,500 0 2,000 0 528,900	0 749,200 2,000 1,756,900

William M. Mercer, Incorporated

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Exhibit II - PENSION BENEFIT OBLIGATION (Cont'd)

Pension Benefit Obligation as of June 30, 1991 by Plan

MUNICIPALITY		RETIREE AND INACTIVE	ACCUMULATED EMPLOYEE CONTRIBUTIONS	EMPLOYER FINANCED	EMPLOYER FINANCED	TOTAL BENEFIT
Police and Fire		LIPHDILIT I	OUNTRIBUTIONS	VESTED	NON-VESTED	UBLIGATION
42 Valley Falls Fire 46 Line Rock Fire 47 North Smithfield Vol. Fire 50 East Greenwich Fire 54 East Greenwich Police	D D D	\$0 0 1,696,800 905,000	\$0 6,600 22,600 182,500	\$13,700 (1,100) 3,900 33,600	\$292,400 71,500 75,300 191,800	\$306,100 77,000 101,800 2,104,700
55 North Kingstown Fire 58 North Providence Police & Fire 60 Barrington Police 61 Barrington Fire 62 Warren Police	D D 2 2 D	4,536,500 84,600 1,657,000 2,306,100 1,010,300	867,600 814,300 346,600 469,100 311,300	593,600 654,000 145,600 136,100 204,100	1,081,700 1,164,800 399,700 507,300	7,079,400 2,717,700 2,548,900 3,418,600
63 South Kingstown Police & Fire 64 Primrose Volunteer Fire 76 North Smithfield Police 77 Tiverton Fire 82 Foster Police		1,177,400 27,400 422,100 544,900	622,800 66,000 210,500 276,100 83,500	412,400 26,600 149,100 384,800	764,100 84,300 355,600 325,600	2,976,700 204,300 1,137,300 1,531,400
85 Woonsocket Police 86 Charlestown Police 87 Hopkinton Police 88 Glocester Police 89 West Greenwich Police	C,D D D	220,000 83,500 14,200 46,200	413,500 83,300 74,100 73,000 31,300	0 2,900	469,700 63,300 48,500 38,000	1,103,200 230,100 139,700 157,200
90 Burrillville Police 91 Cumberland Police 92 Washington Fire 93 Woonsocket Fire 94 Bristol Fire	D C,D	114,700 400 0	0 82,400 0 40,400 0 21,200 0 190,900	4,600	0 105,300 0 67,100 0 6,300 0 54,300 0 349,800	198,000 264,200 47,100 80,100 540,700
95 Cumberland Hill Fire 98 Coventry Fire 99 Berkley Fire 100 Tiogue Fire 101 North Cumberland			0 16,300 0 15,200 0 7,500 0 7,500	6,300 37,000 32,000 0 4,700	J 1,900 D 227,500 D 158,800 D 55,400 D 79,100 D 208,500	0 3,900 0 250,100 0 211,000 0 94,900 0 79,100 0 213,200
102 Central Coventry Fire 103 Hopkins Hill Fire			0 0		0 191,100	0 191,100

NOTES

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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 - Bristol/Warren Schools formed from Bristol and Warren.

2 - Barrington Police and Barrington Fire were previously a single unit.

EXHIBIT III - PARTICIPANT INFORMATION

Active Employees as of June 30, 1991

Active Employees as of June 30, 1990

MUNICIPALITY		NUMBER	AVERAGE	AVERAGE	AVERAGE	NUMBER	AVERAGE AGE	AVERAGE	AVERAGE
General Employees									
1 Barrington		136	46.8	9.6	\$20.500	141	47.5	10.5	\$20,300
2 Bristol	1	79	421	9.3	19.800	117	45.0	10.5	20,100
3 Burrillville		140	46.1	7.0	17,600	145	45.5	6.5	15,900
4 Central Falls		48	41.2	7.0	20,500	46	42.0	10.0	21,000
5 Charlestown		21	37.0	0.3	23,700		-There		
		£1	51.5	5.0	20,100		10.0	0.5	10 100
7 Granston		757	45.9	9.7	19,900	747	46.0	9.0	17 200
8 Cumberland		220	47,6	5.6	17,000	229	49,5	8.0	19 300
9 East Greenwich		133	46.3	9.0	18,300	129	46.5	8,5	18,300
10 East Providence		385	46.5	8.4	23,900	394	47.5	10.5	22,000
11 Exeter/West Greenwich		47	44.5	5.3	15,400	34	47.0	9.0	14,400
12 Foster		35	42.1	6.0	15,600	37	43.0	5.5	16,900
13 Glocester		47	44.0	3.9	16,000	54	43.5	5.0	13,600
14 Hopkinton		22	42.9	6.0	18,300	21	43.0	5,5	18,000
15 Jamestown		41	41.2	8.2	22,900	40	41.5	8.0	21,100
16 Johnston		236	47.8	9.1	17,800	233	49.0	10.5	18,000
21 Newport		302	44.2	10.4	21,800	314	44.5	10.5	20,800
22 New Shoreham		22	423	73	20,500	15	41.5	8.5	16,700
23 North Kingstown		225	45.0	7.6	20,700	205	44.5	8.5	21,200
24 North Providence		240	46.7	9.3	17,800	232	47.5	9.5	17,400
25 North Smithfield		75	46.9	8.0	18,100	79	47.0	8.5	16,800
								105	10.000
26 Pawtucket		637	46.4	10.1	17,900	684	46.5	10.5	18,800
29 Richmond		13	43.6	4.7	19,000	15	41.0	3.0	9,000
30 Scituate		64	47.5	9.5	15,100	62	50.0	11.5	16,100
31 Smithlield		121	47.4	8.1	21,100	120	48.5	9.0	20,700
32 South Kingstown		257	43.3	7.8	20,000	225	43.0	7.5	19,100
33 Tiverton		83	48.6	8.1	18,300	82	50.0	9.5	18,900
34 Warren	1	35	48.4	10.8	17,400	74	50.0	11.0	19,700
36 Westerly		5	55.8	15.0	30,000	9	56.5	16.0	25,500
37 West Greenwich		19	46.4	2.9	16,900	18	48.5	10.5	16,900
39 Woonsocket		370	46.8	8.7	20,600	388	47.0	9.0	19,000
40 Charibe Cohool Dist		115	41.8	47	13 700	108	43.0	4.5	13,900
At Easter/Glossester		35	49.7	47	16 400	34	49.0	8.5	15 100
41 Poster Olocester		1	28.1	1.8	12 800		1010	0.0	10,100
44 Southern Ar Collaborative		3	55.3	24.5	29,200				
46 Hope Valley Fire		1	55.8	8.9	31,300				
at http://www.		-1.4	45.0	5.6	22 700	15	44.5	5.0	22 700
51 Cranston Housing		14	40.2	0.0	23,700	10	F1 0	5.0	20,700
52 East Providence Housing		10	42.1	6.5	26,700	20	42.5	7.0 6.E	20,000
53 Pawtucket Housing		30	42.1	0.0	20,700	10	46.0	6.0	20,700
56 Cumberland Housing		9 7	44.7	5.6	23,500	7	40.0	8.0	23,500
67 Lincoin Housing		· · · · · · · · · · · · · · · · · · ·	40.0	0.0	20,000	'	40.0	0.0	20,000
59 Bristol Housing		8	44.9	8.2	21,300	7	46.5	8.0	21,900
65 Burnilville Housing		2	48.2	9.2	27,200	2	47.0	8.5	25,600
66 North Providence Housing		6	46.6	7.4	22,600	5	47.0	7.0	23,400
67 East Smithfield Water		2	54.8	7.4	32,400	2	54.0	6.5	29,900
68 Greenville Water		4	50.0	13.0	32,000	5	50.5	9.5	24,200
71 Warren Housing		6	55.6	10.2	21,200	6	54.5	9.5	21,200
72 Johnston Housing		3	46.8	6.5	18,200	5	51.0	7.0	18,400
79 Coventry Housing		7	47.7	5.2	19,100	6	46.0	4,5	15,400
83 West Warwick Housing		6	46.4	8.3	22,100	6	44.5	9.5	22,000
84 Smithfield Housing		2	34.3	2.8	18,900	2	33.5	2.0	17,200
			10.0		00.000				
96 Central Falls Housing		10	48.3	14.1	23,000				
98 Lime Rock Administrative Svcs		2	29.2	2.8	16,700				
100 Bristol/Warren Schools	1	88	48.2	9.2	17,700	*			

William M. Mercer, Incorporated

EXHIBIT III - PARTICIPANT INFORMATION

MUNICIPALITY NUMBER AVERAGE	-	Active Er	nployees a	s of June 30	, 1991	Active Er	nployees a	s of June 30	, 1990
Police and Fire 9 38.3 13.4 \$24 value Faits Fire 9 38.3 13.4 \$24,400 - 47 North Smithleid Vol. Fire 9 30.8 4.5 24,400 - - - - - 529.9 8.9 23,200 - - - - - 527.400 - - 527.400 - - 52.41 - - 52.41 - - 52.41 - - 52.400 - - - 52.76.00 69 39.0 14.0 29.700 56 58.0rth Kingstown Fire 66 35.1 6.9 24.700 92 33.5 6.0 27.800 69 38.0 13.5 28.000 61 83.01 13.5 28.000 62 Warren Police 19 38.7 10.5 31.800 20 37.0 10.5 27.400 53 50.10.0 30.100 64 Primose Volunteer Fire 7 33.6 13.4 30.700 38	MUNICIPALITY	NUMBER	AVERAGE AGE	AVERAGE	AVERAGE	NUMBER	AVERAGE AGE	AVERAGE SERVICE	AVERAGE
42 Valley Fails Fire 9 38.3 13.4 \$\$24,100 - 44 Uime Rock Fire 5 29.9 89 \$23,200 - 47 North Smithlad Vol. Fire 9 30.8 4.5 24.400 - 50 East Greenwich Police 26 30.0 10.4 27,000 18 39.5 13.5 29,400 55 North Kingstown Fire 66 35.0 9.5 27,600 69 39.0 14.0 28,700 60 Barmigon Police 2 22 36.8 12.3 28,600 59 38.0 13.5 28,000 61 Bartington Police 2 22 34 37.4 10.9 27,400 59 38.0 13.5 28,000 62 Warren Police 19 38.7 10.5 31,800 20 37.0 10.5 27,400 63 South Kingstown Police & Fire 43 36.6 11.4 30,700 38 38.0 13.0 30,100 64 Primose Volunteer Fire 7 33.3 7.6 23,700 8 32.5 7.5 23,000 <tr< td=""><td>Police and Fire</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	Police and Fire								
46 Lime Rock Fire 5 29.9 8.9 22.200 - 47 North Smithiel Vol. Fire 9 30.8 4.5 54.400 - 50 East Greenwich Fire 24 31.9 4.4 25,400 23 24.0 7.0 \$27,400 54 East Greenwich Police 26 38.0 10.4 27,600 18 39.0 14.0 29,700 55 North Kingstown Fire 66 35.0 6,9 24,700 92 33.5 6.0 27,800 60 Barrington Police 2 24 37.4 10.9 27,400 59 38.0 13.5 28,000 61 Barrington Fire 2 34.66 11.4 30,700 38 38.0 13.5 28,000 62 Warren Police 17 33.6 1.14 30,700 8 38.0 13.0 30,100 63 South Kingstown Police & Fire 7 35.5 27,900 18 35.5 7.5 23,000 63 South Kingstown Police 17 36.6 11.4 30,700 18 35.5 7.5 23,000<	42 Valley Falls Fire	9	38.3	13.4	\$24,100				
47 North Smithlield Vol. Fire 9 30.8 4.5 24,00 - 50 East Greenwich Police 26 38.0 10.4 27,900 18 39.5 13.5 29,400 55 North Kingstown Fire 66 35.0 9.5 27,600 69 39.0 14.0 29,700 56 North Providence Police 8 Fire 86 35.1 6.9 24,700 92 33.5 6.0 27,800 61 Barrington Police 2 22 36.8 12.3 28,500 59 38.0 13.5 28,000 62 Waren Police 19 38.7 10.5 31,800 20 37.0 10.5 27,400 63 South Kingstown Police & Fire 43 36.6 11.4 30,700 38 38.0 13.5 28,000 77 Tiverton Fire 22 40.0 11.0 25,300 18 45.5 7.5 23,000 71 Warton Fire 22 40.0 11.0 25,300 18 45.5 29.0 5.0 28,500 82 Foster Police 13 35.2 5.0 <td< td=""><td>46 Lime Rock Fire</td><td>5</td><td>29.9</td><td>8.9</td><td>23,200</td><td></td><td></td><td></td><td></td></td<>	46 Lime Rock Fire	5	29.9	8.9	23,200				
50 East Greenwich Fire 24 31.9 4.4 25,400 23 24.0 7.0 \$27,400 54 East Greenwich Police 26 38.0 10.4 27,900 18 39.5 13.5 29,400 55 North Kingstown Fire 26 38.0 9.5 27,600 92 33.5 6.0 27,800 60 Barrington Police 2 24 37.4 10.9 27,400 59 38.0 13.5 28,000 61 Barrington Fire 2 34 37.4 10.5 31,800 20 37.0 10.5 27,800 63 South Kingstown Police & Fire 7 33.7 7.6 23,700 38 38.0 13.0 30,100 64 Primrose Volunteer Fire 7 36.3 7.6 23,700 8 32.5 6.0 22,800 76 North Smithleid Police 17 36.3 9.5 27,900 18 35.5 7.5 23,000 82 Foster Police 13 35.2 5.0 23,80	47 North Smithfield Vol. Fire	9	30.8	4.5	24,400				
54 East Greenwich Police 26 38.0 10.4 27,900 18 39.5 13.5 29,400 55 North Kingstown Fire 66 35.0 9.5 27,800 69 39.0 14.0 29,700 58 North Frovidence Police & Fire 2 22 36.8 12.3 28,500 59 38.0 13.5 28,000 61 Barrington Fire 2 34 37.4 10.9 27,400 59 38.0 13.5 28,000 63 South Kingstown Police & Fire 43 36.6 11.4 30,700 38 38.0 13.0 30,100 64 Primose Volunteer Fire 7 33.3 7.6 27,900 18 42.5 13.5 28,000 76 North Simthiele Police 17 36.3 9.5 27,900 18 42.5 13.5 25,00 22,3000 18 42.5 13.5 25,00 24,700 85 50.0 24,700 45 29.0 5.0 28,700 85 29.0 5.0 <td>50 East Greenwich Fire</td> <td>24</td> <td>31.9</td> <td>4.4</td> <td>25,400</td> <td>23</td> <td>24.0</td> <td>7.0</td> <td>\$27,400</td>	50 East Greenwich Fire	24	31.9	4.4	25,400	23	24.0	7.0	\$27,400
55 North Kingstown Fire 66 35.0 9.5 27,600 69 39.0 14.0 29,700 58 North Providence Police & Fire 86 35.1 6.9 24,700 92 33.5 6.0 27,800 61 Barrington Police 2 234 37.4 10.9 27,400 59 38.0 13.5 28,000 62 Warren Police 19 38.7 10.5 31,800 20 37.0 10.5 27,400 63 South Kingstown Police & Fire 43 36.6 11.4 30,700 38 38.0 13.0 30,100 64 Primose Volunteer Fire 7 33.3 7.6 23,700 8 32.5 6.0 22,900 76 North Smithield Police 17 36.8 11.3 24,300 7 35.5 10.0 24,700 85 Woonsocket Police 55 28.9 4.4 27,300 45 29.0 5.0 23,700 86 Gloester Police 13 35.2 5.2 23,800	54 East Greenwich Police	26	38.0	10.4	27,900	18	39.5	13.5	29,400
58 North Providence Police & Fire 86 35.1 6.9 24,700 92 33.5 6.0 27,800 60 Barrington Police 2 22 36.8 12.3 28,500 59 38.0 13.5 28,000 62 Warren Police 19 38.7 10.5 31,800 20 37.0 10.5 27,400 63 South Kingstown Police & Fire 43 36.6 11.4 30,700 38 38.0 13.0 30,100 64 Primoso Volunteer Fire 7 36.3 9.5 27,900 18 35.5 7.5 23,000 76 North Smithliad Police 17 36.3 9.5 27,900 18 35.5 7.5 23,000 77 Tiventon Fire 22 40.0 11.0 25,300 18 45.5 7.5 20,000 85 Woonsocket Police 55 28.9 4.4 27,300 45 29.0 5.0 28,700 86 Glosester Police 13 35.2 3.5 23,200 12	55 North Kingstown Fire	66	35.0	9.5	27,600	69	39.0	14.0	29,700
60 Barrington Police 2 22 36.8 12.3 28,500 59 38.0 13.5 28,000 61 Barrington Fire 2 34 37.4 10.9 27,400 59 38.0 13.5 28,000 62 Waren Police 19 38.7 10.5 31,800 20 37.0 10.5 27,400 63 South Kingstown Police & Fire 43 36.6 11.4 30,700 38 38.0 13.0 30,100 64 Primrose Volunteer Fire 7 33.3 7.6 23,700 8 32.5 6.0 22,900 76 North Simbhleid Police 17 36.3 9.5 27,900 18 35.5 7.5 23,000 82 Foster Police 55 28.9 4.4 27,300 45 29.0 5.0 28,700 85 Woonsocket Police 13 35.2 5.0 23,800 13 33.5 6.5 22,500	58 North Providence Police & Fire	86	35.1	6.9	24,700	92	33.5	6.0	27,800
61 Barrington Fire 2 34 37.4 10.9 27.400 59 38.0 13.5 28,000 62 Warren Police 19 38.7 10.5 31,800 20 37.0 10.5 27,400 63 South Kingstown Police & Fire 43 36.6 11.4 30,700 38 38.0 13.0 30,100 64 Primose Volunteer Fire 7 33.3 7.6 23,700 18 35.5 7.5 23,000 76 North Smithlied Police 17 36.3 9.5 27,900 18 35.5 7.5 23,000 77 Tiverion Fire 22 40.0 11.0 25,300 18 42.5 13.5 25,500 85 Woonsocket Police 55 28.9 4.4 27,300 13 33.5 6.5 23,900 86 Globester Police 13 35.2 5.0 23,800 13 33.5 6.5 23,900 86 Globester Police 13 35.2 35.2 35.2 32,200 12 37.0 5.5 22,600 89 West Greenwich Police 17<	60 Barrington Police 2	22	36.8	12.3	28,500	59	38.0	13.5	28,000
62 Warren Police 19 38.7 10.5 31,800 20 37.0 10.5 27,400 63 South Kingstown Police & Fire 7 33.3 7.6 23,700 8 38.0 13.0 30,100 64 Primrose Volunteer Fire 7 33.3 7.6 23,700 8 32.5 6.0 22,900 76 North Smithtiel Police 17 36.3 9.5 27,900 18 32.5 1.0 22,400 77 Tiventon Fire 22 40.0 11.0 25,300 18 42.5 13.5 25,500 82 Foster Police 7 36.8 11.3 24,300 7 35.5 10.0 24,700 85 Woonsocket Police 55 28.9 4.4 27,300 45 29.0 5.0 28,700 86 Charlestown Police 13 35.2 5.0 23,800 13 33.5 6.5 23,500 87 Hopkinton Police 13 35.2 3.5 23,200 12 37.0 5.5 22,600 89 West Greenwich Police 1 35.2 2.5	61 Barrington Fire 2	34	37.4	10.9	27,400	59	38.0	13.5	28,000
63 South Kingstown Police & Fire 43 36.6 11.4 30,700 38 38.0 13.0 30,100 64 Primrose Volunteer Fire 7 33.3 7.6 23,700 8 32.5 6.0 22,900 76 North Smithfield Police 17 36.3 9.5 27,900 18 35.5 7.5 23,000 82 Foster Police 7 36.8 11.3 24,300 7 35.5 10.0 24,700 85 Woonsocket Police 55 28.9 4.4 27,300 45 29.0 5.0 28,700 85 Woonsocket Police 13 35.2 5.0 23,800 13 33.5 6.5 23,500 86 Globester Police 13 35.2 3.5 23,000 10 32.5 0.2 33,00 90 Burriliville Police 13 35.2 3.5 23,000 12 37.0 5.5 22,600 31.5 4.5	62 Warren Police	19	38.7	10.5	31,800	20	37.0	10.5	27,400
64 Primrose Volunteer Fire 7 33.3 7.6 23,700 8 32.5 6.0 22,900 76 North Smithleid Police 17 36.3 9.5 27,900 18 35.5 7.5 23,000 77 Tiverton Fire 22 40.0 11.0 25,300 18 42.5 13.5 25,500 82 Foster Police 7 36.8 11.3 24,300 7 35.5 10.0 24,700 85 Woonsocket Police 55 28.9 4.4 27,300 45 29.0 5.0 28,700 86 Charlestown Police 13 35.2 5.0 23,800 13 33.5 6.5 23,500 87 Hopkinton Police 9 33.3 4.0 27,000 10 32.5 2.0 23,900 88 Glocester Police 13 35.2 3.5 23,200 12 37.0 5.5 22,600 89 West Greenwich Police 17 38.0 2.8 24,800 18 37.5 10.	63 South Kingstown Police & Fire	43	36.6	11.4	30,700	38	38.0	13.0	30,100
76 North Smithlield Police 17 36.3 9.5 27,900 18 35.5 7.5 23,000 77 Tiverton Fire 22 40.0 11.0 25,300 18 42.5 13.5 25,500 82 Foster Police 7 36.8 11.3 24,300 7 35.5 10.0 28,700 85 Woonsocket Police 55 28.9 4.4 27,300 45 29.0 5.0 28,700 86 Charlestown Police 13 35.2 5.0 23,800 13 33.5 6.5 23,500 87 Hopkinton Police 9 33.3 4.0 27,000 10 32.5 2.0 23,900 86 Glocester Police 13 35.2 3.5 23,200 12 37.0 5.5 22,600 89 West Greenwich Police 7 37.2 10.7 25,100 7 36.0 9.5 23,300 90 Burrillville Police 17 38.0 2.8 24,800 18 37.5 10.5	64 Primrose Volunteer Fire	7	33.3	7.6	23,700	8	32.5	6.0	22,900
77 Tiverton Fire 22 40.0 11.0 25,300 18 42.5 13.5 25,500 82 Foster Police 7 36.8 11.3 24,300 7 35.5 10.0 24,700 85 Woonsocket Police 55 28.9 4.4 27,300 45 29.0 5.0 28,700 86 Charlestown Police 13 35.2 5.0 23,800 13 33.5 6.5 23,900 87 Hopkinton Police 9 33.3 4.0 27,000 10 32.5 2.0 23,900 88 Glocester Police 13 35.2 3.5 23,200 12 37.0 5.5 22,600 89 West Greenwich Police 7 37.2 10.7 25,100 7 36.0 9.5 23,300 90 Burrillville Police 17 38.0 2.8 24,800 18 37.5 10.5 20,800 91 Cumberland Police 12 27.3 2.0 23,900 6 31.5 4.5 23,700 92 Washington Fire 7 31.1 4.9 25,900	76 North Smithfield Police	17	36.3	9.5	27,900	18	35.5	7.5	23,000
B2 Foster Police 7 36.8 11.3 24,300 7 35.5 10.0 24,700 B5 Woonsocket Police 55 28.9 4.4 27,300 45 29.0 5.0 28,700 B6 Charlestown Police 13 35.2 5.0 23,800 13 33.5 6.5 23,500 B7 Hopkinton Police 9 33.3 4.0 27,000 10 32.5 2.0 23,900 B8 Glocester Police 13 35.2 3.5 23,200 12 37.0 5.5 23,900 90 Burnillville Police 7 37.2 10.7 25,100 7 36.0 9.5 23,300 90 Burnillville Police 17 38.0 2.8 24,800 18 37.5 10.5 20,800 91 Cumberland Police 12 27.3 2.0 23,900 12 26.5 3.5 23,700 92 Washington Fire 7 31.1 4.9 25,900 6 31.5 4.5	77 Tiverton Fire	22	40.0	11.0	25,300	18	42.5	13.5	25,500
85 Woonsocket Police 55 28.9 4.4 27,300 45 29.0 5.0 28,700 86 Charlestown Police 13 35.2 5.0 23,800 13 33.5 6.5 23,500 87 Hopkinton Police 9 33.3 4.0 27,000 10 32.5 2.0 23,900 88 Glocester Police 13 35.2 3.5 23,200 12 37.0 5.5 22,600 89 West Greenwich Police 7 37.2 10.7 25,100 7 36.0 9.5 23,300 90 Burrillville Police 17 38.0 2.8 24,800 18 37.5 10.5 20,800 91 Cumberland Police 12 27.3 2.0 23,900 12 26.5 3.5 23,700 92 Washington Fire 7 31.1 4.9 25,900 6 31.5 4.5 23,700 93 Woonsocket Fire 38 27.9 4.4 28,000 34 27.5 4.0 27,200 94 Bristol Fire 1 41.9 1.0 29,200	82 Foster Police	7	36.8	11.3	24,300	7	35.5	10.0	24,700
86 Charlestown Police 13 35.2 5.0 23,800 13 33.5 6.5 23,500 87 Hopkinton Police 9 33.3 4.0 27,000 10 32.5 2.0 23,900 88 Glocester Police 13 35.2 3.5 23,200 12 37.0 5.5 22,600 89 West Greenwich Police 7 37.2 10.7 25,100 7 36.0 9.5 23,300 90 Burrillville Police 17 38.0 2.8 24,800 18 37.5 10.5 20,800 91 Cumberland Police 12 27.3 2.0 23,900 12 26.5 3.5 23,700 92 Washington Fire 7 31.1 4.9 25,900 6 31.5 4.5 23,700 93 Woonsocket Fire 38 27.9 4.4 28,000 34 27.5 4.0 27,200 94 Bristol Fire 1 41.9 1.0 29,200 - - - - 95 Cumberland Hill Fire 10 36.0 9.6 26,000 <td< td=""><td>85 Woonsocket Police</td><td>55</td><td>28.9</td><td>4.4</td><td>27,300</td><td>45</td><td>29.0</td><td>5.0</td><td>28,700</td></td<>	85 Woonsocket Police	55	28.9	4.4	27,300	45	29.0	5.0	28,700
87 Hopkinton Police 9 33.3 4.0 27,000 10 32.5 2.0 23,900 88 Glocester Police 13 35.2 3.5 23,200 12 37.0 5.5 22,600 89 West Greenwich Police 7 37.2 10.7 25,100 7 36.0 9.5 23,300 90 Burrillville Police 17 38.0 2.8 24,800 18 37.5 10.5 20,800 91 Cumberland Police 12 27.3 2.0 23,900 12 26.5 3.5 23,700 92 Washington Fire 7 31.1 4.9 25,900 6 31.5 4.5 23,700 93 Woonsocket Fire 38 27.9 4.4 28,000 34 27.5 4.0 27,200 94 Bristol Fire 1 41.9 1.0 29,200 - - - - 95 Cumberland Hill Fire 9 36.2 9.5 27,100 - - - - - 99 Berkley Fire 6 37.1 7.7 16,900 -	86 Charlestown Police	13	35.2	5.0	23,800	13	33.5	6.5	23,500
88 Glocester Police 13 35.2 3.5 23,200 12 37.0 5.5 22,600 89 West Greenwich Police 7 37.2 10.7 25,100 7 36.0 9.5 23,300 90 Burrillville Police 17 38.0 2.8 24,800 18 37.5 10.5 20,800 91 Cumberland Police 12 27.3 2.0 23,900 12 26.5 3.5 23,700 92 Washington Fire 7 31.1 4.9 25,900 6 31.5 4.5 23,700 93 Woonsocket Fire 38 27.9 4.4 28,000 34 27.5 4.0 27,200 94 Bristol Fire 1 41.9 1.0 29,200 - - - 95 Cumberland Hill Fire 9 36.2 9.5 27,100 - - 99 Berkley Fire 4 39.1 7.5 26,900 - - - 100 Tiogue Fire 6 37.1 7.7 16,900 - - - 101 North Cumberland	87 Hopkinton Police	9	33.3	4.0	27,000	10	32.5	2.0	23,900
B9 West Greenwich Police 7 37.2 10.7 25,100 7 36.0 9.5 23,300 90 Burrillville Police 17 38.0 2.8 24,800 18 37.5 10.5 20,800 91 Cumberland Police 12 27.3 2.0 23,900 12 26.5 3.5 23,700 92 Washington Fire 7 31.1 4.9 25,900 6 31.5 4.5 23,700 93 Woonsocket Fire 38 27.9 4.4 28,000 34 27.5 4.0 27,200 94 Bristol Fire 1 41.9 1.0 29,200 - - - 95 Cumberland Hill Fire 9 36.2 9.5 27,100 -	88 Glocester Police	13	35.2	3.5	23,200	12	37.0	5.5	22,600
90 Burrillville Police 17 38.0 2.8 24,800 18 37.5 10.5 20,800 91 Cumberland Police 12 27.3 2.0 23,900 12 26.5 3.5 23,700 92 Washington Fire 7 31.1 4.9 25,900 6 31.5 4.5 23,700 93 Woonsocket Fire 38 27.9 4.4 28,000 34 27.5 4.0 27,200 94 Bristol Fire 1 41.9 1.0 29,200 -	89 West Greenwich Police	7	37.2	10.7	25,100	7	36.0	9.5	23,300
91 Cumberland Police 12 27.3 2.0 23,900 12 26.5 3.5 23,700 92 Washington Fire 7 31.1 4.9 25,900 6 31.5 4.5 23,700 93 Woonsocket Fire 38 27.9 4.4 28,000 34 27.5 4.0 27,200 94 Bristol Fire 1 41.9 1.0 29,200 - - - - - 95 Cumberland Hill Fire 9 36.2 9.5 27,100 - <t< td=""><td>90 Burrillville Police</td><td>17</td><td>38.0</td><td>2.8</td><td>24,800</td><td>18</td><td>37.5</td><td>10.5</td><td>20,800</td></t<>	90 Burrillville Police	17	38.0	2.8	24,800	18	37.5	10.5	20,800
92 Washington Fire 7 31.1 4.9 25,900 6 31.5 4.5 23,700 93 Woonsocket Fire 38 27.9 4.4 28,000 34 27.5 4.0 27,200 94 Bristol Fire 1 41.9 1.0 29,200 - - - 95 Cumberland Hill Fire 9 36.2 9.5 27,100 - - 98 Coventry Fire 9 36.2 9.5 27,100 - - 99 Berkley Fire 4 39.1 7.5 26,900 - - 100 Tiogue Fire 6 37.1 7.7 16,900 - - 101 North Cumberland 14 30.1 6.5 26,200 - - 102 Central Coventry Fire 9 30.5 5.6 25,800 - - 102 Central Coventry Fire 9 30.5 5.6 25,800 - -	91 Cumberland Police	12	27.3	2.0	23,900	12	26.5	3.5	23,700
93 Woonsocket Fire 38 27.9 4.4 28,000 34 27.5 4.0 27,200 94 Bristol Fire 1 41.9 1.0 29,200 - </td <td>92 Washington Fire</td> <td>7</td> <td>31.1</td> <td>4.9</td> <td>25,900</td> <td>6</td> <td>31.5</td> <td>4.5</td> <td>23,700</td>	92 Washington Fire	7	31.1	4.9	25,900	6	31.5	4.5	23,700
94 Bristol Fire 1 41.9 1.0 29,200 - 95 Cumberland Hill Fire 10 36.0 9.6 26,000 - 98 Coventry Fire 9 36.2 9.5 27,100 - 99 Berkley Fire 4 39.1 7.5 26,900 - 100 Tiogue Fire 6 37.1 7.7 16,900 - 101 North Cumberland 14 30.1 6.5 26,200 - 102 Central Coventry Fire 9 30.5 5.6 25,800 -	93 Woonsocket Fire	38	27.9	4.4	28.000	34	27.5	4.0	27,200
95 Cumberland Hill Fire 10 36.0 9.6 26,000 - 98 Coventry Fire 9 36.2 9.5 27,100 - 99 Berkley Fire 4 39.1 7.5 26,900 - 100 Tiogue Fire 6 37.1 7.7 16,900 - 101 North Cumberland 14 30.1 6.5 26,200 - 102 Central Coventry Fire 9 30.5 5.6 25,800 -	94 Bristol Fire	1	41.9	1.0	29,200				
98 Coventry Fire 9 36.2 9.5 27,100 - 99 Berkley Fire 4 39.1 7.5 26,900 - 100 Tiogue Fire 6 37.1 7.7 16,900 - 101 North Cumberland 14 30.1 6.5 26,200 - 102 Central Coventry Fire 9 30.5 5.6 25,800 -	95 Cumberland Hill Fire	10	36.0	9.6	26,000				
99 Berkley Fire 4 39.1 7.5 26,900 - 100 Tiogue Fire 6 37.1 7.7 16,900 - 101 North Cumberland 14 30.1 6.5 26,200 - 102 Central Coventry Fire 9 30.5 5.6 25,800 -	98 Coventry Fire	9	36.2	9.5	27,100	-			
100 Tidgue Fire 6 37.1 7.7 16,900 - 101 North Cumberland 14 30.1 6.5 26,200 - 102 Central Coventry Fire 9 30.5 5.6 25,800 -	99 Berkley Fire	4	39.1	7.5	26,900				
101 North Cumberland 14 30.1 6.5 26,200 - 102 Central Coventry Fire 9 30.5 5.6 25,800 -	100 Tioque Fire	6	37.1	7.7	16,900				
102 Central Coventry Fire 9 30.5 5.6 25,800 -	101 North Cumberland	14	30.1	6.5	26,200				
1 252 11 18 200	102 Central Coventry Fire	9	30.5	5.6	25,800				
4 20.2 1.1 10,000 F	103 Hopkins Hill Fire	4	25.2	1.1	18,800				

NOTES

1 Participants under Bristol/Warren Schools were previously participants under either Bristol or Warren.

2 Barrington Police and Barrington Fire were previously a single unit. 1990 data represents this single, combined unit.

EXHIBIT III - PARTICIPANT INFORMATION (Cont'd)

Retirees and Beneficiaries

MUNICIPALITY	NUMBER	AVERAGE	MONTHLY
General Employees	TETTETT	Mar	DENEFIL
1 Barrington	103	677	6100
2 Bristol	60	70.5	\$406
3 Burrillville	42	60.2	404
4 Central Falls	12	61.2	491
5 Charlestown		01.2	808
7 Cranston			
8 Cumberland	338	66.9	403
9 East Graenwich	56	66.3	525
10 East Providence	50	68.2	366
11 Exeter West Greenwich	255	64.0	748
10 Easter	D	64.5	284
13 Glossfor	7	69.3	558
14 Hopkiston	4	64.8	601
15 Importanto	8	62.1	291
16 Johnston	16	68.3	429
	88	68.4	465
21 Newport	151	68.5	457
22 Nett Viscola	6	66.1	317
24 North Bravidsoo	97	67.4	510
24 North Providence	93	66.1	333
25 North Smithled	43	67.7	316
26 Pawtucket	389	68.5	428
29 Richmond	4	67.7	247
30 Scituate	36	70.7	321
31 Smithfield	58	69.4	441
32 South Kingstown	63	70.7	326
33 Tiverton	45	65.2	382
34 Warren	46	63.0	413
36 Westerly	12	71.3	693
37 West Greenwich	3	69.3	461
39 Woonsocket	245	67.5	420
40 Chariho School Dist.	9	64.7	423
41 Foster/Glocester	5	63.8	614
44 Southern RI Collaborative			
45 Coventry Lighting Dist.			
46 Hope Valley Fire			
51 Cranston Housing	8	72.0	504
52 East Providence Housing	9	71.5	424
53 Pawtucket Housing	25	65.9	499
56 Cumberland Housing	5	61.5	655
57 Lincoln Housing	4	67.8	621
59 Bristol Housing	1	63.8	571
65 Burrillville Housing			
66 North Providence Housing	1	73.5	239
67 East Smithfield Water	2	75.8	364
68 Greenville Water			
71 Warren Housing			
72 Johnston Housing	2	68.9	619
79 Coventry Housing	4	64.9	349
83 West Warwick Housing	1	67.5	945
84 Smithfield Housing	1	67.5	572
96 Central Falls Housing	3	65.4	1450
98 Lime Rock Administrative Sycs		44.4	
100 Bristol/Warren Schools			

EXHIBIT III - PARTICIPANT INFORMATION (Cont'd)

	Retirees a	nd Beneficiaries	
MUNICIPALITY Police and Fire 42 Valley Falls Fire 46 Lime Rock Fire 47 North Smithfield Vol. Fire 50 East Greenwich Fire 54 East Greenwich Palies	NUMBER	AVERAGE AGE 62.4	AVERAGE MONTHLY BENEFIT \$1,275
55 North Kingstown Fire 58 North Providence Police & Fire 60 Barrington Police 61 Barrington Fire 62 Warren Police	36 5 16 24 13	66.2 61.2 68.6 60.9 59.4 62.1	984 1101 408 937 922 732
63 South Kingstown Police & Fire 64 Primrose Volunteer Fire 76 North Smithfield Police 77 Tiverton Fire 82 Foster Police	13 1 4 9	57.6 77.1 60.7 63.3	813 303 991 669
85 Woonsocket Police 86 Charlestown Police 87 Hopkinton Police 88 Glocester Police 89 West Greenwich Police	1 1 1 1	34.7 38.5 55.0	1487 581 378
90 Burrillville Police 91 Cumberland Police 92 Washington Fire 93 Woonsocket Fire 94 Bristol Fire	1	48,3	834
95 Cumberland Hill Fire 98 Coventry Fire 99 Berkley Fire 100 Tiogue Fire 101 North Cumberland	•		
102 Central Coventry Fire 103 Hopkins Hill Fire			

EXHIBIT IV - ACTUARIAL METHOD AND ASSUMPTIONS

a. Actuarial Funding Method

Actuarial Funding Method - Entry age normal cost method has been adopted. This method spreads the cost of benefits to be provided to an individual participant as a level percentage of pay from his or her date of employment to the assumed date of retirement.

Due to experience gains and losses or amendments to the benefits, accrued liabilities will not exactly equal the value of assets. The difference between the accrued liabilities and assets is called the unfunded liability. In 1988 the rules regarding amortizing the unfunded liability were changed. Under the new rules the existing unfunded liability in 1988 was amortized over the remainder of a 25 year period which commenced on the date the unit joined the System. Subsequent divergences from the actuarial assumptions are to be funded over the projected future salaries of active members.

Smoothed Contribution Rate - Due to large fluctuations in the contribution rates of certain municipalities, the Retirement Board elected to adopt a procedure which would allow a unit the option of paying a smoothed contribution rate. The smoothed contribution rate equals the previous fiscal year's contribution rate plus the greater of 2% or one eighth of the increase in contribution rate (plus the cost of any benefit improvements).

EXHIBIT IV - ACTUARIAL METHOD AND ASSUMPTIONS (Cont'd)

b. Actuarial Assumptions Concerning Future Events

Mortality - 1971 Group Annuity Mortality Table with Mortality for disabled persons set equal to the age 65 mortality under 1971 Group Annuity Mortality Table.

		Sample Rate	<u>25</u>	
	Mort	ality	Expected FL	ture Lifetime
Age	Males	Females	Males	<u>Females</u>
20	.050%	.026%	55.3 yrs.	61.6 yrs.
25	.062	.035	50.4	56.7
30	.080	.047	45.6	51.8
35	.112	.065	40.8	47.0
40	163	.094	36.1	42.1
15	292	.140	31.4	37.4
50	529	.215	26.9	32.6
SU	852	326	22.8	28.0
00	1 212	549	18.8	23.5
60	1.512	956	15.2	19.3
65	2.126	.950	11 0	15.3
70	3.611	1.648	11.9	10.0

Investment Return - 8.0%, compounded annually.

Salary Increases - Salaries will increase at a rate of 4.5%, compounded annually.

Retirement Age - Municipal employees are assumed to retire at the later of age 65 or completion of the service requirements. Police and Firemen are assumed to retire at the later of age 60 or completion of the service requirements. For police and fire departments electing the optional plan paying unreduced benefits after 20 years of service, employees are assumed to retire at the later of age 57 and completion of 10 years of service.

Disability - Disability is assumed to occur in accordance with the following table with 15% of disabilities being occupational for municipal employees and 50% of disabilities being occupational for police and firemen.

EXHIBIT IV - ACTUARIAL METHOD AND ASSUMPTIONS (Cont'd)

Municipal	Employees	Police an	d Firemen
Age	Rate	Age	Rate
20	.06%	20	.12%
25	.09	25	.17
30	.11	30	.22
35	.15	35	.29
40	.22	40	.44
45	.36	45	.72
50	.61	50	1.21
55	1.01	55	
60		60	

Disability - Sample Rates

Withdrawal - Termination of service for reasons other than death, retirement, or disability will be in accordance with the following tables. For police and firemen no withdrawal for reasons other than death, disability, or retirement is assumed.

Sample Withdrawal Rates

Age	Municipal Employees
20	21.20%
25	15.80%
30	11.60%
35	8.40%
40	6.20%
45	4.20%
50	2.60%
55	
60	

Cost of Living Adjustments - 3%, not compound, beginning on the January 1st following a participant's retirement if the municipal group elects this optional benefit provision.

EXHIBIT IV - ACTUARIAL METHOD AND ASSUMPTIONS (Cont'd)

Actuarial Value of Assets - The actuarial value of assets is the market value of assets as of June 30, 1991. The market value of assets equals the sum total of a municipal group's employee contributions and employer and retirement reserves.

Estimation of Unknown Employee Characteristics - Missing dates for participants are estimated using a band-type averaging method assigning band grouped average dates to those individuals with missing dates of birth or hire. For example, an employee missing a date of hire is given an estimated date of hire based on the average of known dates of hire for persons in his age band. For Employees who are missing salaries, their salaries are estimated by the average salaries for those employees whose data is complete. For Municipal Employees this is \$21,350 for the salary year July 1, 1990 to June 30, 1991.

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EXHIBIT V - SUMMARY OF PLAN PROVISIONS

PLAN NAME	Municipal Employees' Retirement System of the State of Rhode Island
FINAL AVERAGE SALARY	Final average salary is the three highest consecutive years of earned salary exclusive of overtime, bonuses, or severance pay.
NORMAL RETIREMENT	Age and Service Requirements
	General Employees may retire with full accrued benefits at age 58 with 10 years of service or after 30 years of service regardless of age.
	Police and Firemen may retire with unreduced accrued benefits at age 55 with 10 years of service or after 25 years regardless of age.
	Police and Firemen under the Optional Plan may retire with unreduced accrued benefits at age 55 with 10 years of service or after 20 years of service with no restriction on age.
	Amount of Retirement Benefits
	2% of final average salary times service, maximum benefit is 75% of final average salary.
	For the optional 20-year service plan, retirement benefit is 2.5% of final average salary times service with a maximum benefit of 75% of final average salary.

EARLY RETIREMENT	Age and Service Requirement
	Early retirement is only available to policemen and firemen under the normal plan.
	Amount of Retirement Benefits
	Regular pension accrued, reduced by 6% for each year of age less than 55.
DISABILITY BENEFIT	Non-occupational
	Service Requirement: 5 years
	Amount of Benefit: Regular pension benefit based on service to disability and final average salary at time of disability, payable immediately. The minimum benefit is 20% of final average salary.
	Occupational
	There is no age or service requirements for the occupational disability benefit.
	Amount of Benefit: Two thirds of final salary at time of disability, payable immediately.
VESTING	Employees are vested in their retirement benefits on completion of 10 years of service.

PRE-RETIREMENT DEATH BENEFITS

Lump Sum Benefit

There are no age or service requirements for this benefit.

Amount of Benefit:

- \$800 per year of service with a minimum of
 \$4,000 and a maximum of \$16,000, plus
- (b) Refund of employee contributions.

Joint and Survivor Benefit (optional)

Service Requirement: 10 years.

Amount of Benefit: Benefit employee would have received had he/she retired the day before he/she died and chosen the 100% joint and survivor option.

Police and Firemen's Survivor Benefit

There is no age of service requirement for this benefit.

Amount of Benefit:

- (a) 30% of final average salary to spouse plus10% to each child under age 18, plus
- (b) refund of employee contributions.

PRE-RETIREMENT DEATH BENEFITS (Cont'd)	Occupational Death Benefit This benefit has no age or service requirement. Amount of benefit:				
	 (a) 50% of salary to spouse or children of employees under age 18, less workmen's compensation. Police and firemen also receive 10% for each child under 18 to a maximum of 66-2/3%. 				
	(b) refund of employee contributions.				
POST-RETIREMENT DEATH BENEFITS	Lump sum in the amount of:				
	(a) 100% of employee contributions less benefits paid, plus				
	(b) Pre-retirement death benefit, reduced 25% per year of retirement, with a minimum of \$4,000.				
EMPLOYEE CONTRIBUTIONS	Municipal Employees: 6% until maximum benefit (75% of final average salary) is accrued. Increased to 7% with post-retirement cost-of-living increase.				
	Policemen and Firemen: 7% until maximum benefit (75% of final average salary) is accrued. Increased to 8% with post-retirement cost-of-living increase. Increased by 1% for 20 year service plan.				

AVAILABLE BENEFIT OPTIONS	Joint and Survivor: Actuarially Equivalent Benefit paying either 100% or 50%, depending on option selected, of retirement benefit to surviving beneficiary.				
	Social Security: Pays an increased benefit until age 62 and a reduced benefit thereafter to provide a leve benefit when Social Security payments are accounted for.				
POST-RETIREMENT COST OF LIVING ADJUSTMENT	Retirees' benefits are adjusted annually by 3%, not compounded, to allow for increases in cost of living if their municipal group adopts this benefit				

provision.