REPORT ON AN ACTUARIAL VALUATION OF THE ASSETS AND LIABILITIES OF THE EMPLOYEES RETIREMENT SYSTEM OF THE STATE OF RHODE ISLAND AS OF JUNE 30,1956

The results of an actuarial valuation of the assets and liabilities of the Employees Retirement System of the State of Rhode Island as of June 30, 1956, are presented herewith.

Basis of Valuation

The benefit and contribution provisions of the plan of operation governing the system forming the basis of this valuation are summarized in the appendix.

Statistics

The census data required for our valuation and all financial information were supplied to us, in excellent form, by Joseph B. Lewis, Secretary.

Membership

	State]	Employees - Female
	4,632	
Number of members	• •	3,060
Proportion of total	60.2%	39.8%
Annual salaries	\$14,450,682.00	\$8,007,735.00
Average age	47.2	42.4
Average total service	8.5	7.7

	- Teacher	- Teacher-members -		
	Male	Female		
Number of members	1,404	3,764		
Proportion of total	27.2%	72.8%		
Annual Salaries	\$5,548,603.00	\$14,018,422.00		
Average age	41.0	44.3		
Average total service	11.9	16.0		

Beneficiaries

State Employees - Male	Number	Annual Payments	Reserve Requirements
Retirement annuities - Maximum rate Option 1 Option 2 Option 3 Actuarial equivalent	112 28 14 8 1	\$129,033 31,754 19,081 17,030 1,349	\$1,026,306 229,714 268,667 214,644 17,016
Disability annuities - Ordinary disability Ordinary disability - Option 1 Accidental disability	9 1 5	10,603 644 2,088	130,916 8,120 29,452
Totals	178	\$211,582	\$1,924,835

(continued)

Beneficiaries - (Continued)

State Employees - Female

	Number	Annual Payments	Reserve Requirements
Retirement annuities - Maximum rate Option l Actuarial equivalent	84 13 1	\$ 98,642 15,258 2,628	\$1,034,487 140,376 39,590
Disability annuities - Ordinary disability Ordinary disability -	6	3,401	51,292
Option 1 Accidental disability	1 2	645 2,524	8,664 33,088
Beneficiary annuities -	_5	5,955	65,917
Totals	112	\$129,053	\$1,373,414
Teachers -Male			
	Number	Annual Payments	Reserve Requirements
Retirement annuities - Maximum rate Option 2 Option 3 Actuarial equivalent	48 8 6 2	\$123,238 14,338 14,407 3,571	\$1,116,699 220,113 173,139 47,446
Disability annuities - Ordinary disability	_5	7,874	115,749
Totals	69	\$163,428	\$1,673,146

(continued)

Beneficiaries - (Continued)

Teachers - Female

\$804,456 11,680 2,741 1,627 2,709	\$8,746,753 122,662 45,072 22,927 40,804
38,397 2,667	598,083 60,078
\$864,277 ————	\$9,636,379
	11,680 2,741 1,627 2,709

Summary of beneficiaries

	Number	Annual Payments	Reserve Requirements
State Employees -		<u>;</u> =	
Male Female	178 112	\$ 211,582 129,053	\$ 1,924,835 1,373,414
Teachers -			
Male Female	69 <u>390</u>	163,428 864,277	1,673,146 9,636,379
Totals	749	\$1,368,340	\$14,607,774

Results of Valuation

The accompanying Valuation Balance Sheet presents the financial condition of the system from a technical standpoint at June 30, 1956, taking into account all accrued and prospective liabilities for benefit payments to be made subsequent to that date.

Total liabilities at June 30, 1956, amounted to \$85,915,235.00, of which the sum of \$27,607,883.00, was applicable to the period subsequent to that date. The accrued liabilities at the balance sheet date, therefore, amounted to \$58,307,352.00. The assets available to meet these liabilities, after providing for refunds to members withdrawing from the system in future years, totalled \$16,340,105.15. The accrued unfunded obligation, therefore, at the date of this valuation was \$41,967,246.85. This constitutes a deferred obligation of the State of Rhode Island and the cities and towns, to be discharged by future contributions under the established method of financing.

Liability For Benefits In Force - \$14,607,774.00

The total liabilities on account of persons in receipt of pensions and benefits constitute the amount required to pay out these pensions and benefits during the remainder of the lifetime of the beneficiaries. These liabilities compare with the net available assets of the system of \$16,340,105.15.

Accrued Liability On Active Members - \$43,699,578.00

This liability consists of the earned pension credits of the State employees and teachers prior to July 1, 1936 and July 1, 1949, respectively, and earned pension credits for service rendered by the members between these dates and June 30, 1956.

Future Service Liability - \$27,607,883.00

This liability represents the value of the benefits to be earned by the present members during service subsequent to June 30, 1956. Effect has been given to the probable separations from service of certain members during future years due to death or resignation.

Other Benefits

The death and disability incidents incurred by the system during the year were below the expected number for the size of membership. The experience for a number of years indicates that a much smaller number of claims for these benefits has been incurred than in the case with other governmental agencies. Disability claims will probably increase in future years, especially for teacher-members. A rigid policy governing disability benefits should be maintained in administration in order that the cost of these benefits may be kept within reasonable limits.

VALUATION BALANCE SHEET - JUNE 30, 1956

ASSETS

PRESENT ASSETS

Net present assets

\$22,906,371.15

Less, releases of member contributions on account of refunds and death benefits

6,566,266.00

\$ 4.911,007.00

\$16,340,105.15

DEFERRED ASSETS

Obligation of the members and the employer for retirement and disability annuities covering service of members for the remainder of their active working lifetime subsequent to June 30, 1956 -

State Employees - Members

Teachers
Members \$4,365,279.00

State 5,409,338.00

Cities and towns 5,409,338.00

15,183,955.00

12,423,928.00

DEFERRED OBLIGATION OF THE STATE OF RHODE ISLAND AND CITIES AND TOWNS

Accrued Unfunded Liability Present value of annuities and
benefits in force, and accrued
liabilities for retirement
annuities and disability
annuities on account of service
prior to July 1, 1956, after
credit for available present
assets

Total Assets

41,967,246.85 \$85,915,235.00

VALUATION BALANCE SHEET - JUNE 30, 1956

LIABILITIES

ACCRUED LIABILITIES

Reserve requirements for annuities and benefits in force -

State Employees Teachers

\$ 3,298,249.00 11,309,525.00

\$14,607,774.00

Present Value of accrued requirements for retirement annuities, disability annuities and death benefits at June 30, 1956

State Employees -

Male Female

\$10,009,153.00 4,627,214.00

14,636,367.00

Teachers -

Male Female

5,680,048.00 23,383,163.00

29,063,211.00

PROSPECTIVE LIABILITIES

Present Value of retirement annuities and disability annuities on account of service to be rendered after June 30, 1956 -

State Employees Teachers

\$12,423,928.00 15,183,955.00

27,607,883.00

Total Liabilities

\$85,915,235.00

Financing the System

The results of the valuation disclose that the unfunded accrued liability of the system increased during the year from \$38,591,271.92 to \$41,967,246.85. This increase was due to the partial reserve method of financing the system. Under this method the unfunded liability will continue to increase for a number of years. This increase can be mitigated by an upward adjustment in contribution rates on the part of the State and the cities and towns, as well as the members of the system. The necessity for such adjustment is indicated by the operating experience of the past years and by a projection of expected payments by the system during the ensuing ten years.

To illustrate the financial status of the system at this time on a current basis, a comparison is made of total present assets with the amount of current and matured obligations. The latter item is represented by the contribution credit accounts of the members, and the amount required to pay out the annuities and benefits entered upon and in force:

Contribution Credits -

State Employees Teachers	\$ 7,059,061.75 5,026,543.67
Present value of annuities and benefits entered upon and in force -	
State Employees Teachers	3,298,249.00 11,309,525.00
Total Current and	
Matured Obligations	\$26,693,379.42
Total present assets	22,906,371.15
Excess of current liabilities over present assets	\$ 3,787,008.27
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Due to the persistent upward trend in payments for annuities and benefits during recent years which has been especially pronounced in the case of the teacher members, the total assets had fallen below the amount of current and matured obligations. This makes for an unsatisfactory financial condition from a technical standpoint which can be adjusted only by larger contributions by the members or by the State, or both.

The present method of financing requires a periodic reexamination of the rates of contribution based upon the operating experience of the system and probable future payments reflecting projected computed estimates. Cost calculations disclose that an increase in contribution rates will be necessary beginning July 1, 1957, as follows:

On account of State employees
On account of teacher members

1% of payroll 2% of payroll

The foregoing rates may be assumed entirely by the State for state employees, and by the State and cities and towns for the teachers, or may be divided between the members and the employers in equitable proportions. An adjustment in contributions by the members will require legislative action since the rate of contribution by members is specifically provided in Chapter 18. An increase in contributions by the employers may be authorized by the retirement board.

Pertinent statistics illustrating the upward trend in membership and annuities, and in pension and death benefit payments, during the last ten years are as follows:

Members		Annuitants		
June 30th	State Employees	Teachers 1/	State Employees	Teachers 1/
1947 1948 1949 1950 1951 1952 1953 1954 1955	3894 4446 4700 5688 5805 6410 6538 7039 7259 7692	- 4287 4464 4558 4681 4745 4823 5168	112 139 155 162 178 188 213 239 255 290	- 137 198 243 307 374 417 459

^{1/} Became members on July 1, 1949

	Pension and Death	Benefit Payments
Year Ended June 30th	State Employees	Teachers
1947	\$ 85,000.00 116,200.00	•
1940	149,000.00 193,700.00	\$ 251,200.00
1950 1951 1952 1953	198,500.00 254,300.00	365,400.00 465,500.00
1953 1953	301,200.00 324,700.00	620,200.00 788,600.00
1954 1955 1956	362,600.00 467,600.00	923,700.00 1,096,000.00

Conclusion

The system is gradually broadening its operations. Membership is steadily increasing. The system is making satisfactory progress and is fulfilling its objectives in an effective manner. The policies and methods of procedure in effect in administration insure the continuance of a high standard of efficiency in operations.

Respectfully submitted,

A. A. Weinberg Actuary