# State of Rhode Island and Providence Plantations



# ANNUAL REPORT

OF THE

RETIREMENT BOARD

June 30, 1986

HON. ROGER N. BEGIN General Treasurer

# EMPLOYEES' RETIREMENT SYSTEM OF THE STATE OF RHODE ISLAND Annual Report

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Lee Grossi State Budget Director		
Senator John Orabona Designee of Senate Finance Chairman		
Edna N. Snow Teacher Representative		
Representative Robert S. Tucker House Finance Chairman		

Report of the Board

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# State of Rhode Island and Providence Plantations

OFFICE OF THE GENERAL TREASURER STATE HOUSE PROVIDENCE, R.I. 02903 TEL. (401) 277-2287

The Honorable Edward D. DiPrete Governor, State of Rhode Island and Providence Plantations State House Providence, RI 02903



Dear Governor DiPrete:

It is with great pleasure that I submit the fiftieth Annual Report of the Retirement Board of the Employees' Retirement System of the State of Rhode Island for transmittal to the General Assembly. This report covers the fiscal year ending June 30, 1986.

Respectfully submitted,

Foza N Begin

Roger N. Begin General Tressurer

#### REPORT OF THE RETIREMENT BOARD

The Fiftieth Annual Report of the Retirement Board covering the fiscal year ending June 30, 1986.

The report covers in detail through the exhibits, schedules and statistics, the operations for the year and its condition at June 30th, together with the Actuary's valuation and recommendations.

### FINANCIAL FACTS

Total reserves at the end of the year were 19.7 percent or \$172,368,182 higher than the previous year, for a total of \$1,046,601,001.

Revenues from all sources for the year amounted to \$113,052,974 for State employees and \$138,316,055 for Public School Teachers. Expenditures for the year amounted to \$40,349,063 and \$38,651,784 for State employees and Teachers, respectively.

Chart (A) depicts the sources of Revenue and Expenditures.

Income from investments for the year amounted to \$101,026,678, including a capital gain of \$19,299,989. This represents 40.19 percent of the total revenues. This income is equal to a return of 8.97 percent and is compared to the return of previous years in Chart (B).

Pension benefits, which represent the major expenditure item, amounted to \$32,057,303 for State employees and Legislators, and \$30,420,156 for Teachers and Teachers' Survivors. Added to this was the Cost-of-Living Adjustment, which amounted to \$4,520,854 for State employees, and \$6,810,574 for Teachers. A comparative chart of the Cost-of-Living Adjustment graphically depicts the facts in this regard and the trend thereof in Chart (C), which covers the last thirteen years.

### UNFUNDED ACCRUED LIABILITY -

This item is thoroughly covered in the actuary's Report section. However, it is pointed out that the rate of funding otherwise referred to as the 'Security Ratio' at June 30, 1986 was 56.51 percent for State employees and 42.17 percent for Teachers. The unfunded (accrued) liability for the State employees was \$419,546,700 and \$732,327,300 for Teachers.

# CONCLUDING COMMENT

Consistent with prior years, a normal increase in reserves was recorded. In keeping with established procedures, an actuarial valuation was made which illustrates current operational results and the financial condition of the System at the end of the fiscal year. The results of operations were satisfactory.

Service to participating members is always paramount in the operation and conduct of our staff. To this end, we have held numerous pre-retirement educational courses in the past year. Evaluations made by the attendees indicate that valuable insights regarding retirement were made. We shall continue to conduct pre-retirement seminars to make our members aware of the benefits available for retirement purposes.

A sincere thanks is extended to the officials of our State government and members of the administrative staff for their cooperation and dedicated service rendered during the year.

Retirement Board of the Employees' Retirement System of the State of Rhode Island

DONALD R. HICKEY Executive Director

# Financial Statements

### COMPARATIVE FINANCIAL BALANCE SHEET

ASSETS	JUNE 30, 1986	JUNE 30, 1985
Cash	\$ 10,770,496	2,454,131
Accrued Interest Receivable	14,253,088	12,375,752
Investments (At amortized book value for bonds and cost of stock)	1,021,577,413 \$1,046,601,001	859,402,936 874,232,819
LIABILITIES & RESERVES  Current Liabilities  Unclaimed Benefits	\$\$	204,537
Members' Contribution Reserves State Employees	120,889,860	108,717,977
Teachers	175,746,196	156,937,246
Teachers' Survivors TOTAL MEMBER RESERVES	7,893,766 304,529,822	7,512,073 273,167,296
General Reserves		
State Employees	384,921,936	324,397,306
Teachers	328,021,756	250,677,748
Teachers' Survivors	28,915,657	25,783,432
Certain State Employees	3,750	2,500
Certain Teachers		
TOTAL GENERAL RESERVES	741,863,099	600,860,986
TOTAL LIABILITIES AND RESERVES	\$ 1,046,601,001	874,232,819

# STATEMENT OF REVENUES AND EXPENDITURES YEAR ENDED - JUNE 30, 1986

### REVENUES

Member Contributions		^	22 212 -	
State Employees		\$	20,940,0	
Legislators			8,6	
Teachers			24,899,15	
Teachers' Survivors			513,05	
Ins. Premiums-Legislators			3,21	0 46,364,171
State Contributions				
State Employees			42,118,99	
Teachers			29,065,43	
Certain State Employees & Teachers			17,500	
Supplemental Pay - State			367,801	71,569,726
Municipal Contributions				
Teachers			31,340,222	
Teachers' Survivors			512,838	
Supplemental Pay - Teachers	_		98,475	31,951,535
Investment Income				, = -1,555
Interest			5,620,860	
Dividends		1	6,847,105	
Capital Gain or (Loss)		1	9,299,989	
Less: Administrative Expense			-741,276	101,026,678
Miscellaneous				-027,020,078
Miscellaneous Receipts			12,767	
Employees' TransMunicipal Unclaimed Benefits			67,823	
			19,643	
Interest-Service Purchase TOTAL REVENUES			356,686	456,919
TOTAL REVENUES				251,369,029
DUDDUD				, = = , = 2,
Pension Benefits EXPENDITU	RES			
State Employees				
Legislators		35,	320,296	
Teachers		8	882,559	
Teachers' Survivors			082,201	
Certain State Employees & many		1,0	43,499	
			7,500	
		1	05,030	
ach belief its		3	67,802	73,808,887
State Employees				
Legislators		78	34,346	
Teachers Refund of Control		3	4,400	
Refund of Contributions		41	5,068	1,233,814
State Employees Teachers				
Teachers' Survivors	2	,91	6,789	
Interest on Dec		836	5,578	
Interest on Refunds-Survivors Municipalities		108	3,487	
Miscellaneous			,338	
Miscellaneous D		_14	,536	3,923,728
		18,	,318	
Excess Revenues over Expenditures		16,	100	34,418
Expenditures				79,000,847
			\$17	2,368,182
			7-7	

# ANALYSIS OF REVENUES AND EXPENDITURES FISCAL YEAR ENDED - JUNE 30, 1986

	STATE EMDI	STATE EMPLOYEES TEACHERS					
REVENUES	AMOUNT	SOIEES &	AMOUNT	HERS &	TOTAL		
Member Contributions	\$20,951,967	18.53	25,412,20	5 18.37	46,364,172		
State Contributions	42,504,293	37.60	29,065,433	3 21.02	71,569.726		
Municipal Contribution	ons 49,391,943	43.69	31,951,535	23.10	31,951,535		
Investment Earnings		4 4	51,634,735	37.33	101,026,678		
Miscellaneous TOTAL REVENUES	204,771 \$113,052,974	100.00	252,147 138,316,055		456,918 251,369,029		
EXPENDITURES							
Pensions	32,057,303	28.36	30,420,156	21.99	62,477,459		
Cost-of-Living Adjust.	4,520,854	04.00	6,810,574	04.92	16,331,428		
Death Benefits	818,746	00.72	415,068	00.30	1,233,814		
Refunds-Contributions	2,916,789	02.58	998,189	00.72	3,914,978		
Miscellaneous	35,371	00.03	7,797	00.01	43,168		
TOTAL EXPENDITURES	40,349,063	35.69	38,651,784	27.94	79,000,847		
EXCESS REVENUES OVER EXPENDITURES -							
TO RESERVES	\$72,703,911	64.31	99,664,271	72.06	172,368,183		

# DISTRIBUTION OF EXCESS REVENUE

Members' Reserves	
State	18,066,18
Teachers	24,094,715
Survivors	404,563
General Reserves	
State	54,637,141
Teachers	72,051,432
Survivors	3,109,354
Certain Employees	1,250
TOTAL	\$172,368,182

# ANALYSIS OF INVESTMENT INCOME FISCAL YEAR ENDED JUNE 30, 1986

INVESTMENT INCOME - INTEREST

\$64,697,151

INVESTMENT INCOME - INTEREST		704,097,15
ADD: Accrued Interest - June 30, 1986 Accrued Interest - July 1, 1985 Discounts Amortized	\$14,253,088 12,375,751 1,877,337 1,019,483	
Total Additions TOTAL		2,896,820 67,593,971
LESS:  Accrued Interest Purchased Premiums Amortized Total Deductions	1,697,716 275,395	1,973,111
DIVIDENDS		65,620,860 16,847,105
TOTAL EARNED ON INVESTMENTS  CAPITAL GAIN INVESTMENT INCOME LESS: ADMINISTRATIVE EXPEN	SE	82,467,965 19,299,989 01,767,954 - 741,276 1,026,678

# DISTRIBUTION OF INVESTMENT INCOME FISCAL YEAR ENDED - JUNE 30, 1986

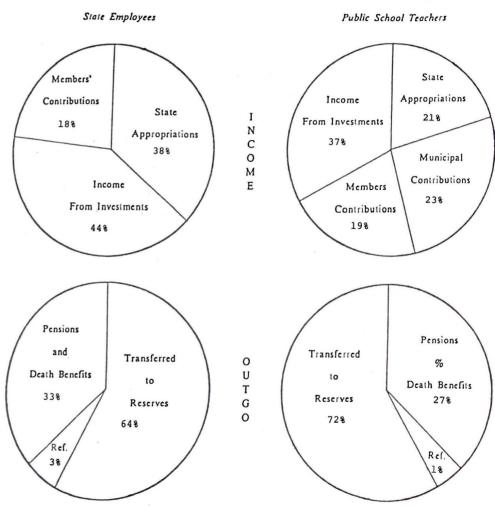
	EMPLOYEES	TEACHERS	TEACHERS' SURVIVORS	TOTAL
MEMBER RESERVES				
Balance July 1, 1985	\$108,717,976	156,937,24	5 7,512,073	273,167,294
Balance June 30, 1986	120,889,860	175,746,196	7,893,766	304,529,822
GENERAL RESERVES				
Balance July 1, 1985	324,399,806	250,677,748	25,783,432	600,860,986
Balance June 30, 1986	335,533,743	280,074,495	25,228,183	640,836,421
T O T A L	889,541,385	863,435,684	66,417,454	1,819,394,523
AVERAGE	444,770,693	431,717,842	33,208,727	909,697,262
PERCENT	48.89	47.46	3.65	100.00
DISTRIBUTION \$	49,391,943	47,947,261	3,687,474	101,026,678

# CHART A

# SOURCES OF REVENUE AND HOW EXPENDED

JUNE 30, 1986

Highlights



Ref. Denoies Refunds

85-86	84-85	83-84	82-83	81-82	80-81	79-80	78-79	77-78	76-77	75-76	74-75	73-74	<u>YEAR</u> 72-73		
30,881,152	28,161,866	26,662,536	21,105,380	18,718,665	16,738,846	15,743,067	14,007,233	12,638,920	11,045,772	9,635,536	8,118,371	6,685,643	PENSION BENEFITS \$5,782,110		
4,439,144	3,844,578	3,360,702	2,941,778	2,575,727	2,049,888	1,563,271	1,317,011	1,097,430	906,030	748,731	612,196	502,378	COST OF LIVING ADJUSTMENT 411,796	CHART 'C'	INVESTMENT RATE O  1986 9. 1985 9. 1984 9. 1983 10. 1982 9. 1981 8. 1980 7. 1979 6. 1977 6. 1976 6. 1976 6. 1974 5. 1971 5.
29,271,627	26,590,686	24,760,600	23,767,139	22,409,596	20,962,025	20,653,181	18,986,600	17,382,026	16,279,438	15,216,413	14,076,602	12,778,668	PENSION BENEFITS 11,413,852		E OF RETURN 8.97 9.25 9.3 9.4 10.2 10.2 5.8 5.8 5.3
6,810,574	6,366,817	5,907,761	5,457,932	5,005,960	4,036,193	3,128,123	2,698,815	2,269,569	1,948,642	1,647,312	1,367,603	1,119,746	COST OF LIVING ADJUSTMENT 923,868	TEACHERS	

# CHART 'D'

# COMPARATIVE PERTINENT FINANCIAL FACTS FOR STATE EMPLOYEES AND TEACHER MEMBERS

Fiscal		STA	TE EMPLOYEES AND	TEACHER ME	MBERS	
Year Ended	EXCESS		OVER EXPENDITURES			r EARNINGS
June 30	State Emp.	8	Teachers	*	State Emp.	Teachers
1971	7,984,606	58	7,089,543	40	4,062,592	3,359,023
1972	8,782,514	56	7,479,578	39	4,463,637	3,708,529
1973	8,825,489	51	8,539,937	38	5,140,631	4,309,059
1974	10,237,173	52	9,264,517	37	6,159,198	5,215,129
1975	12,210,282	53	10,587,575	38	7,065,233	6,006,428
1976	13,679,596	52	11,404,410	39	8,361,655	7,102,844
1977	15,604,153	52	16,654,090	46	9,370,122	8,056,179
1978	18,913,113	54	20,608,794	49	10,596,621	9,364,238
1979	16,192,484	46	16,004,751	41	13,001,764	11,694,352
1980	26,252,892	57	23,016,169	47	16,866,504	15,206,410
1981	31,480,978	59	31,151,555	53	20,782,136	18,833,067
1982	40,162,709	61	39,532,861	57	25,290,552	23,195,936
1983	44,380,976	62	49,687,094	61	28,172,059	26,372,102
1984	50,424,302	60	56,165,279	63	34,600,836	33,230,640
1985	55,749,619	60	74,606,628	68	35,584,080	35,442,736
1986	72,703,91	L 64	99,664,271	72	49,391,943	51,634,735

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Report

of the

Actuary

EMPLOYEES' RETIREMENT SYSTEM OF THE STATE OF RHODE ISLAND

Actuarial Valuation as of June 30, 1986

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# MARTIN E. SEGAL COMPANY

607 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 262-0550

January 7, 1987

Retirement Board of Employees'
Retirement System
State of Rhode Island
198 Dyer Street
Providence, RI 02903

Dear Members of the Board:

We are pleased to submit herewith our Actuarial Valuation of the Employees' Retirement System of the State of Rhode Island as of June 30, 1986.

Our report analyzes the actuarial status of the System, and projects the cost requirements for the Board to certify to the Legislature.

We received a great deal of help from State employees in obtaining the information which forms the basis of this report. Most important, Mr. Donald R. Hickey, Executive Director, Mr. John F. Sullivan, Assistant Director, and Mr. Carlo Mencucci, Principal Accountant, were available whenever needed to answer any questions and provide any information requested. Indeed, the material they provided on their own initiative anticipated many of our needs.

For convenience, this report is divided into the following sections:

- I. SUMMARY
- II. EMPLOYEE DATA
- III. RETIREE DATA
- IV. RETIREMENT FUND
- V. ACTUARIAL ASSUMPTIONS AND COST METHOD
- VI. RESULTS OF VALUATION

APPENDIX

Appended to this report is our actuarial certificate detailing the cost factors, assumptions, and plan of benefits used for the valuation.

We will be pleased to meet with you to discuss this report at your convenience.

Sincerely,

MARTIN E. SEGAL COMPANY, INCORPORATED

Sherman G. Sass

Senior Vice President

James R. Laws, F.S.A., M.A.A.A Vice President and Actuary

SGS/hva D43

### I. SUMMARY

### Benefit Provisions

The Employees' Retirement System of the State of Rhode Island covers most State employees. Legislators and elected officials may become members on an optional basis. State college teachers may elect coverage under the T.I.A.A. program. State employees contribute 7 1/2\* per cent of their annual earnings and Teachers contribute 8 1/2\* per cent.

The System provides unreduced benefits of 1.7 per cent of earnings for each of the first ten years of service; 1.9 per cent for each of the next ten years; 2.4 per cent per year for each of the next ten years; 6 per cent for the 31st year; 5 per cent for the 32nd year; 4 per cent for the 33rd year; 3 per cent for the 34th year; and 2 per cent for the 35th year. The maximum benefit is 80 per cent of final average earnings after 35 years of service. Such benefits are available to members at least age 60 with 10 years of service, or after 30 years at any age. State correctional officers may retire at age 50 if they have 20 years of service, at 2 per cent for each year of service. Benefits are based on the average of the highest three consecutive years' earnings. After the third anniversary of retirement, "cost-of-living increases" amounting to 3 per cent per year of the original award are provided, independent of actual changes in the Consumer Price Index. Beginning January 1, 1981, the cost-of-living increases are computed at the rate of 3 per cent compounded annually. Effective July 1, 1986 the monthly benefits for all retirees who retired prior to 1980 received increases from 8% to 20% depending on the year of

The Plan also provides non-service-connected disability after five years of service; service-connected disability pensions with no minimum service requirement; vested benefits after ten years of service; widow's benefits for service-connected death; and certain lump sum death benefits.

More detail regarding the benefit provisions can be found in the actuarial certificate following this report.

\*Prior to July 1, 1986 the rates were 7 per cent for State employees and 8 per cent for Teachers.

We received data on 14,735 active State Employees and 9,886 Teachers as of June 30, 1986 who were participating in the System. On the average, the State Employees were age 44 and had 10 1/2 years of service; Teachers were age 43 with 16 years of service.

### Retiree Data

We received data on 5,861 State Employee pensioners and 455 beneficiaries as of June 30, 1986. The pensioners' average monthly benefit was \$541, which is approximately 11% greater than the average benefit on June 30, 1985. There were 3,131 retired Teachers and 130 beneficiaries; the average monthly benefit was \$1,038 for the pensioners, which is approximately 15% greater than the average benefit a year earlier. The benefit amounts include an adjustment for the cost-of-living provision and the benefit increase which became effective July 1, 1986. Of all the pensioners on the rolls, 7 per cent had retired in the year ended June 30, 1986.

### Retirement Fund

As of June 30, 1986, the assets of the Retirement Fund at book value, including Teachers Survivors Reserves, amounted to approximately \$1.047 billion. Effective June 30, 1985, the Board adopted an asset valuation method which recognizes the market value of assets but smoothes the fluctuations in the market value of assets. The asset value on this basis is referred to as the actuarial value of assets. On this basis, the assets amounted to \$1.107 billion as of June 30, 1986. These assets are available as an offset to the actuarial liabilities for future benefits. At market value, assets totalled \$1.339 billion on June 30, 1986.

#### Actuarial Valuation

The actuarial valuation was prepared as of June 30, 1986. Our calculations were based on reasonable assumptions as to expected future experience. For this valuation we have not revised any of the actuarial assumptions or methods. In our last valuation, as of June 30, 1985, we incorporated the legislated change in the cost method to the entry age

normal cost with frozen initial liability method which became effective July 1, 1985. Funding of the frozen initial liability is based on the sum of the digits amortization basis plus interest on the outstanding liability. The same funding and amortization methods were applied in this valuation. All of the assumptions and methods are detailed in the attached Certificate of Actuarial Valuation.

The employer normal cost\* for State Employees is \$7.0 million. This represents 2.4 per cent of the reported payroll of participating State Employees as of June 30, 1986. The employer normal cost for Teachers is \$7.2 million or 2.3 per cent of reported participating payroll.

For State Employees, the unfunded actuarial accrued liability\* as of June 30, 1986 is \$420 million. For Teachers, the unfunded actuarial accrued liability as of June 30, 1986 is \$732 million. The unfunded actuarial accrued liabilities as of June 30, 1985 have been "frozen" and are being amortized over 30 years.

The combined value of the System's vested benefits is \$1.65 billion. The assets at actuarial value (excluding assets of the Teachers Survivors program) are short of this amount by \$579 million.

For the 1987-88 fiscal year, the State's statutory funding schedule, as amended effective July 1, 1979, calls for a contribution of 100 per cent of the employer normal cost, 100 per cent of the interest on the unfunded actuarial accrued liability and the second amortization payment on the frozen unfunded liability. For State Employees, these total to \$40.2 million, or 12.5 per cent of the projected 1987-88 payroll of \$321.7 million and for Teachers, the total employer costs are \$64.7 million, or 18.6 per cent of projected payroll of \$347.7 million. (Half of the cost for Teachers is paid for by the municipalities.) In accordance with the statute as amended, the percentages of normal cost and interest on the

unfunded liability required to be contributed have gradually increased to the 100 per cent level starting in fiscal 1985-86. Beginning in fiscal 1986-87, amortization of the frozen unfunded liabilities was also required and has been recognized in the recommendations made in this valuation and the last valuation.

<sup>\*</sup>Please refer to Section V, "Actuarial Assumptions and Cost Method", for definitions of these terms.

### II. EMPLOYEE DATA

We received data on 14,735 State Employees and 9,886 Teachers participating in the System on June 30, 1986. The data included age, service, sex, and salary for each participant. The average salary as of June 30, 1986 of the participants was \$19,900 for State Employees and \$31,200 for Teachers. The data included 304 Correctional Officers and 142 Legislators.

Tables 1A and 1B give detailed age, service and average salary data on State Employees and Teachers, respectively. In preparing these tables, we assumed an annual salary of \$10,000 for the State Employees for whom earnings were missing, and a \$15,000 annual salary for Teachers with unknown earnings.

Tables 2A and 2B summarize certain basic statistics on active State Employees and Teachers and compare them to those of the previous year. During the year, the average salary for State Employees increased by 6.4 per cent while Teachers' average salary increased by 8.7 per cent. Aggregate payroll increased by 3.7 per cent for State Employees and by 7.3 per cent for Teachers.

Table 1A

Number and Average Salaries of Employees in Active Service
as of June 30, 1986 by Age and by Years of Service

MARTIN E. SEGAL COMPANY

					Year	s of servi	ce			
Age	Total	0 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30- 34	35 and over	Unknown
Total	9,886 \$31,200	725 \$23,200	1,325 \$29,700	2,521 \$31,700	2,863 \$32,200	1,108 \$33,200	\$34,100	\$35,200	\$33,500	376 \$26,900
Under 20	6 \$32,500				,					\$32,500
20 - 24	37 18,600	28 \$16,500								25,200
25 - 29	283 22,300	163 20,000	92 \$25,900	\$30,600						26 22,800
30 - 34	1,040 28,700	148 23,200	528 28,800	321 31,300						27,000
35 - 39	2,946 31,100	181 24,800	289 30,700	1,454 31,500	960 \$31,900	\$32,800	1			28,600
40 - 44	2,032 31,900	106 24,500	189 30,800	334 32,200	1,046 32,500	312 33,100		1		29,800
45 - 49	1,247 32,600	46 25,200	107 30,400	172 31,900	325 32,400				2	30,40
50 - 54	940 33,100	24 29,700	53 31,700	110 32,000	219 32,500				-	16 1 27,60
55 - 59	755 33,200	7 30,900	35 33,500							55 1
60 - 64	338 32,500	5 28,500		1	_			And the second second	34	31
65 and over	95 31,000	22,500		5	4 1 32,70			8 33,00		10
Unknown	167 25,200	22,000	-		6 32,20		2	1	1 27,4	7   11

RHODE ISLAND ERS

RHODE ISLAND ERS

eligible to icco	Number vested out	scr. har not	Number of retirement	wher eligible for	Average years of service	Average age	Average annual salary	Total annual salary	Number of covered empany	i malovees			
	3	5,453		1,406		10 1/2	44	\$19,900	\$293,816,800	14,735		June 30,	
		0,401	5 601		1,366	,	10	\$10,100	\$285,242,00	262 262 600	15,186	1985	Tune 30,

Statistical Data on Active State Employees on June 30, 1986 and 1985 Table 2A

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MARTIN E. SEGAL COMPANY

Table 2B

Statistical Data on Active Teachers on June 30, 1986 and 1985

	June 30, 1986	June 30, 1985
Number of covered employees	9,886	10,016
Total annual salary	\$308,439,200	\$287,480,600
Average annual salary	\$31,200	\$28,700
Average age	43	43
Average years of service	16	15 1/2
Number eligible for service retirement	665	774
umber vested but not eligible to retire	6,795	6,861

RHODE ISLAND ERS

### III. RETIREE DATA

The data on retired members and beneficiaries included age, sex, monthly benefit, retirement date, option, and type of pension.

The following are significant statistics on the retired group:

	State Employees	Teachers
Pensioners:		
Number	5,861	3,131
Average age	70 1/2	73
Average monthly benefit	\$541	\$1,038
Beneficiaries:		
Number	455	130
Average age	72	72
Average monthly benefit	\$467	\$690

The average monthly benefit amounts shown above and those included in the tables which follow reflect the benefit increases which became effective July 1, 1986. These increases vary from 8% to 20% depending on the original retirement date.

Table 3A shows a distribution of the 453 State Employee pensions which became effective during the 1985-86 fiscal year by type and amount of pension. Table 4A shows a distribution of these same new awards by type of pension and age at retirement. Tables 3B and 4B are the corresponding distributions for the 219 Teacher pensions which became effective during the 1985-86 fiscal year.

Tables 5A and 5B show distributions for all pensions in force as of June 30, 1986 by type and amount of pension. Tables 6A and 6B show distributions of these same retirees by type of pension and age as of June 30, 1986.

Overall, the data on retirees was quite good. A minor problem, which has no impact on cost, is that some beneficiaries may not be classified as such and therefore they would be treated as pensioners.

MARTIN E. SEGAL COMPANY

future valuations and better reflected in the actuarial cost calculations. obtained and maintained by the System so that it can be incorporated in recommend that information regarding terminated vested employees be liability equal to their accumulated employee contributions. We again them. We therefore continued past practice of including an actuarial benefit did not include enough information to calculate the total cost for The data on terminated employees with vested rights to a deferred

Table 3A Pensions Awarded in the Year Ended June 30, 1986 by Type and by Monthly Amount

# STATE EMPLOYEES

				Type of pension	i	
Monthly amount	Total	Service	Ordinary Disability	Accidental Disability	Legislator	Beneficiary
Total	453	392	29	7	10	15
Under \$50	5	4		1		
\$ 50 - 99	7	5		2		
100 - 149	13	10	2	1		
150 - 199	31	23	7			1
200 - 249	40	32	5	1	2	
250 - 299	36	32	1		2	1
300 - 349	46	41			2	3
350 - 399	34	26	5		2	1
400 - 449	29	25	2			2
450 - 499	28	24	2	1	1	
500 - 599	22	19	1		1	1
600 - 699	20	17	1			2
700 - 799	17	17				
800 - 899	20	17	3			
900 - 999	14	11		1		2
1,000 - 1,099	8	8				
1,100 - 1,199	11	11				
1,200 - 1,299	8	8	22			
1,300 - 1,399	9	8				1
1,400 - 1,499	6	6				
1,500 - 1,999	25	25				
2,000 - 2,499	15	15		44		
2,500 - 2,999	9	8			1	1

Table 3B

Pensions Awarded in the Year Ended June 30, 1986
by Type and by Monthly Amount

### TEACHERS

			Type of	pension	
Monthly amount	Total	Service	Ordinary Disability	Accidental Disability	Beneficiary
Total	219	203	7	1	8
\$ 50 - 99	1			1	
250 - 299	1	1			
300 - 349	2	2			
350 - 399	3	2 2			1
400 - 449	4	2	1		1
450 - 499	1	1			
500 - 599	7	3	1		3
600 - 699	14	12	1		1
700 - 799	14	11	1		2
800 - 899	10	10			
900 - 999	6	6			
1,000 - 1,099	12	11	1		
1,100 - 1,199	14	13	1		
1,200 - 1,299	10	9	1		
1,300 - 1,399	9	9			
1,400 - 1,499	11	11			
1,500 - 1,999	68	68			
2,000 - 2,499	25	25			
2,500 - 2,999	7	7			

RHODE ISLAND ERS

Table 4A

Pensions Awarded in the Year Ended June 30, 1986
by Type and by Age on Effective Date

1				Type of pension	on	
Age on effective date	Total	Service	Ordinary Disability	Accidental Disability	Legislator	Beneficiary
Total	453	392	29	7	10	15
25 - 29 30 - 34 35 - 39 40 - 44 45 - 49	1 1 1 3	   1	 1 3 2	1  	  	1   2
51 52 53 54	24 \bigg  \bigg	1 2 9 3	  2 3	=======================================	  1	1 1 1
55 56 57 58 59	54 10 11 14	6 1 9 7	1 1 1 4 5	1   	5   	 4   2
60 61 62 63 64	58 41 71 47 24	55 35 68 43 22	2 3 1 	2  2 1	1 1 1 1	 1 1
65 66 67 68 69	99 16 8 17	39 19 16 8 17	   	   	   	  

RHODE ISLAND ERS

MARTIN E. SEGAL COMPANY

Table 4B

Pensions Awarded in the Year Ended June 30, 1986
by Type and by Age on Effective Date

### TEACHERS

			Type of p	ension	
Age on effective date	Total	Service	Ordinary Disability	Accidental Disability	Beneficiary
Total	219	203	7	1	8
35 - 39 45 - 49	1 2		1		 1
50 51	3 4	 3	1		2
52 53 54	23 2 7 7 7	1 6 7			1 1
55 56	13	11 7	2	 1	1
57 58 59	56 9	9 12 12	1		
60 61	37 29	37 29			
62 63	107 16	15 9			1 1
64 65	15 /15	15 15			
66 67 68	27 4 2	5 4 2		==	
69	1	1			
70 and over	3	3			

RHODE ISLAND ERS

# Table 5A Pensions in Payment Status on June 30, 1986 by Type and by Monthly Amount

### STATE EMPLOYEES

		£		Type of pension	n	
Monthly amount	Total	Service	Ordinary Disability	Accidental Disability	Legislator	Beneficiar
Total	6,316	5,157	458	102	144	455
Under \$50	20	14		5		1
\$ 50 - 99	203	151	17	11		24
100 - 149	430	368	21	8		33
150 - 199	710	577	78	7		48
200 - 249	652	510	96	4	6	36
250 - 299	534	399	68	8	20	39
300 - 349	478	372	33	4	25	44
350 - 399	386	297	37		19	31
400 - 449	307	240	26	2 2	14	25
450 - 499	271	235	13	4	6	13
500 - 599	464	356	21	11	30	46
600 - 699	328	249	14	12	24	29
700 - 799	272	227	. 11	8		26
800 - 899	232	204	13	3		12
900 - 999	196	170	4	7		15
1,000 - 1,099	115	105	2	3		5
1,100 - 1,199	106	100	1			5
1,200 - 1,299	92	88				4
1,300 - 1,399	87	79	2			6
1,400 - 1,499	87	83	1	2		1
1,500 - 1,999	226	216		1		9
2,000 - 2,499	74	73				í
2,500 - 2,999	29	28				î
3,000 - 3,499	14	13				î
3,500 - 3,999	3	3				_

MARTIN E. SEGAL COMPANY

Table 5B

Pensions in Payment Status On June 30, 1986
by Type and by Monthly Amount

### TEACHERS

			Type o	f pension	
Monthly amount	Total	Service	Ordinary Disability	Accidental Disability	Beneficiary
Total	3,261	3,006	109	16	130
\$ 50 - 99	4	3		1	
100 - 149	15	14			
150 - 199	22	18			4
200 - 249	35	28	3		4
250 - 299	49	44	2		3
300 - 349	65	58	3		4
350 - 399	64	47	7	1	9
400 - 449	77	58	9		10
450 - 499	94	81	7		6
500 - 599	187	153	13		21
600 - 699	215	192	10	1	12
700 - 799	230	196	19		15
800 - 899	297	275	14		8
900 - 999	279	263	5		11
1,000 - 1,099	285	268	10	1	6
1,100 - 1,199	287	277	4	ĺ	
1,200 - 1,299	232	223	1	6	2
1,300 - 1,399	205	197	2	3	3
1,400 - 1,499	174	170		1	5 2 3 3
1,500 - 1,999	352	349			3
2,000 - 2,499	73	72		1	
2,500 - 2,999	18	18			
3,000 - 3,499	1	1			
3,500 - 3,999	1	1			

RHODE ISLAND ERS

Table 6A

Pensions in Payment Status on June 30, 1986
by Type and by Age

## STATE EMPLOYEES

				Type of pens	ion	
Age on June 30, 1986	Total	Service	Ordinary Disability	Accidental Disability	Legislator	Beneficiary
Total	6,316	5,157	458	102	144	455
30 - 34	10		6	1		3
35 - 39	11		6	3		2
40 - 44	22		11	6		5
45 - 49	25		17	4	1	3
50 - 54	79	20	32	13	5	9
55 - 59	257	111	71	16	29	30
60 - 64	983	763	116	19	29	56
65 - 69	1,622	1,413	102	16	21	70
70 - 74	1,540	1,347	62	14	31	86
75 - 79	1,005	861	32	7	11	94
80 - 84	487	425	3	3	7	49
85 - 89	205	166			7	32
90 - 94	59	45			2	12
95 - 99	10	6			1	3
100 - 104	1					1

RHODE ISLAND ERS

Table 6B Pensions in Payment Status on June 30, 1986 by Type and by Age

															_		
	Beneficiary	130	1	2	3	10	6	13	13	18	24	23	10	3	1	1	1
Type of pension	Accidental Disability	16	1	1	-	2	4	3	3	2	1	1	1	!	1	1	1
Type of	Ordinary Disability	109	3	4	7	12	17	25	18	10	7	2	2	. 2	1	1	1
	Service	3,006	ŀ	1	1	13	100	401	618	577	799	404	158	26	14	1	1
	Total	3,261	3	7	11	37	130	442	652	209	695	429	170	61	15	1	1
, , , , , , , , , , , , , , , , , , ,	June 30, 1986	Total	35 - 39	77 - 07	1	1	55 - 59	1	69 - 69	70 - 74	75 - 79	1	85 - 89	6 - 06	66 - 66	100 - 104	105 - 109

RHODE ISLAND ER

### IV. RETIREMENT FUND

The State maintains the Employees' Retirement Fund. The Retirement Board provided us with financial statements as of June 30, 1986.

The Fund receives all member and employer contributions. The assets are invested by the State Investment Commission, with the income 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 and elects to take a refund, or when he dies after retirement without having received payments from the Fund equal to his total contributions.

Table 7 provides a summary of income and expenditures for the years ended June 30, 1986 and 1985.

On June 30, 1986, assets as reported by the State totalled approximately \$1.047 billion. Table 8 shows the composition of the assets and compares them to those of the previous year. About 68 per cent of the Fund was invested in fixed income securities such as bonds and notes. This represents little change from a year earlier when the fixed income percentage was 67 per cent.

The financial statements indicate that 48 1/2 per cent of the assets relate to State Employees, 48 per cent are for Teachers, and 3 1/2 per cent relate to Teachers Survivors benefits. There is also a small unallocated reserve for unclaimed benefits. Table 9 shows the allocation of assets in detail as of June 30, 1986 and 1985.

Assets prior to June 30, 1985 were carried at values as reported by the State. Bonds were carried at amortized cost value and stocks were carried at cost value. Beginning with the June 30, 1985 actuarial valuation, the Board adopted an asset valuation method for actuarial cost

MARTIN E. SEGAL COMPANY

purposes which takes fair market value into account without subjecting the system to abnormal cost fluctuations from year to year as a result of short term changes in market value.

On the "actuarial value" basis, the assets on June 30, 1986 amounted to \$1,107,357,824. The development of this amount is shown in the following chart:

# Determination of Actuarial Value of Assets

1.	Actuarial value of assets at beginning of year	\$ 896,469,211
2.	Net new money (including dividends and interest)	153,068,193
3.	Preliminary value of assets at end of year: (1) + (2)	1,049,537,404
4.	Market value of assets at end of year	1,338,639,504
5.	Minimum actuarial value: 80% of (4)	1,070,911,603
6.	Maximum actuarial value: 120% of (4)	1,606,367,405
7.	Trial write-up: 20% of [(4) - (3)]	57,820,420
8.	Trial actuarial value: (3) + (7)	1,107,357,824
9.	Final actuarial value of assets at end of year: (8), but not less than (5) or more than (6)	1,107,357,824
10.	Final write-up: (9) - (3)	57,820,420

This determination is used for two purposes:

First, the actuarial value is applied in determining the value of assets used in the actuarial calculations to determine the annual costs.

Second, the amount of write-up or write-down is considered part of the investment yield for the year. This procedure treats realized and unrealized capital gains equally. In other words, the sale of a security either at a gain or loss - will have no effect on the actuarial value. This should remove from the area of investment decisions any consideration of the impact of security sales on the actuarial cost of the plan.

MARTIN E. SEGAL COMPANY

		1986			1985	
Employer contributions  Member contributions  Total contributions  Less: Administration expenses	\$103,521,261 46,364,171 \$149,885,432	611.0 885 437		\$ 93,268,916 38,408,903 \$131,677,819	8131.677.759	
Net contribution income Net miscellaneous items Investment income: Dividends Interest	\$16,847,105	422,501		\$14,881,642 56,626,076	380,025	
Capital gains and (losses) and sale of options/calls Expenses Net investment income Total income available for benefit payments	19,299,989	101,026,67 <u>8</u> \$2	\$251,334,611	(480,842)	71,026,876	\$203,084,660
Benefits payments: Pension benefits Contribution refunds Total benefit payments Excess of income over expenses		\$73,808,887 1,233,814 3,923,728	78,966,429		\$67,189,315 1,169,140 4,369,958	72,728,414
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# V. ACTUARIAL ASSUMPTIONS AND COST METHOD

The actual cost of a pension plan consists of the benefit payments and administrative expenses less any investment earnings. An actuarial cost method aims to budget this cost so as to establish a reasonable relationship between employer pension contributions and the employee service that gives rise to the pension obligation. The result is series of employer contributions over a long period of years. A fund accumulates which earns investment income, thus reducing the ultimate cost.

Calculating the appropriate contribution requires that projections, and therefore assumptions, be made as to future experience. Some items, such as mortality rates, can be predicted fairly accurately. Others, such as future salary increases are, of course, subject to considerable variation. It will be useful to identify the assumptions used, particularly since broad questions of fiscal policy are implicit in certain of the assumptions. The assumptions applied in this valuation are the same as those used in the June 30, 1985 study. Beginning with the June 30, 1985 actuarial valuation, the actuarial cost method was changed as stipulated in Section 36-10-2 of the General Laws of Rhode Island. This method is reviewed at the end of this Section.

### Mortality Rates

We continue to apply mortality rates taken from the Male and Female 1971 Group Annuity Mortality Tables. These are the most commonly used tables of pension plan mortality, and we believe they continue to be reasonable for estimating experience under the System. Table 10 gives some life expectancies determined from these tables.

### Salary Projections

The System provides benefits that are based on the three highest consecutive years' salary for each employee. To assume that each employee's salary will be the same in the three years before retirement as it is today would seriously understate the System's cost. Accordingly, we use a salary projection to anticipate future increases in earnings.

Additionally, it is appropriate to compute pension costs which are level as a percentage of payroll rather than level as a dollar amount, and a salary projection is also used for this purpose. If the cost were calculated as a level dollar amount for an individual, the cost might be a high per cent of his pay when he is young and a lower per cent of his higher salary at a later age. Establishing pension costs which remain a level percentage of salary means that pension costs will be incurred at the same rate as salary is paid to an employee.

The projection of future salaries must anticipate, among other items, future general salary increases. Over the long term, it can be expected that these will parallel or slightly exceed the level of inflation. If the salary increase assumption exceeds actual future salary increases, then pension contributions will exceed the actual cost requirement and actuarial gains will develop. Alternatively, if future salary increases exceed the assumption, then pension contributions will be less than the actual cost requirement and actuarial losses will develop.

For purposes of our cost determination, we have made a reasonable allowance for general salary increases in the future. We also reflect salary increases as the result of merit, promotion, and longevity. The scale has relatively greater increases at the younger ages to correspond with the State's salary schedules. Salary scale factors at sample ages are shown below:

Age	Present Salary as a % of Age 65 Salary	Annual Increases (Rate %)
20	11.30	5.85
25	15.00	5.77
30	19.79	5.61
35	25.91	5.41
40	33.52	5.09
45	42.66	4.73
50	53.43	4.45
55	66.26	4.34
60	82.02	4.17

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### Retirement Ages

The System provides unreduced benefits upon completion of 30 years of service for general employees and age 50 for State Correctional Officers. We assume State Employees will retire at age 63, or upon the completion of ten years of service if later. Teacher retirements are assumed to occur when the teacher has attained age 61 1/2 and completed ten or more years of service. In any case where the employee already meets these assumed conditions of age and service, it is assumed that he or she will retire immediately.

#### Post-Retirement Increases

Following the third anniversary of retirement, cost-of-living increases are regularly provided to pensioners. Our calculations recognize the 3 per cent annual benefit increase provided by Statute. Cost-of-living increases are now "compounded" from year to year. With this valuation we took into account the adjustment effective January 1, 1987 and all subsequent 3% increases.

### Actuarial Cost Method

This valuation is performed using the Entry Age Normal Cost Method with Frozen Initial Liability, hereafter referred to as the Frozen Initial Liability Method. The change from Entry Age Normal Cost Method was legislated effective with the July 1, 1985 actuarial valuation.

Under the Frozen Initial Liability Method, the Actuarial Present Value of Benefits for all participants (including both past and future benefit accruals) is divided into three components, as follows:

- (a) Assets on hand (i.e., benefits already funded);
- (b) Unfunded Frozen Initial Liability, which equals the unfunded actuarial accrued liability as of June 30, 1985 based on the Entry Age Normal Cost Method, adjusted each year for expected reductions, the effect of plan amendments, and the effect of changes in actuarial assumptions; and

(c) Actuarial Present Value of Future Normal Costs, which is the balance, and which effectively includes all variations from expected experience.

The annual cost requirement consists of three items -- (1) the amount which will amortize the principal portion of the Unfunded Frozen Initial Liability over 30 years from July 1, 1986 using the sum-of-the-digits method plus (2) the interest on the outstanding balance of the Unfunded Frozen Initial Liability plus (3) the Normal Cost, which is the percent of payroll which will fund the Actuarial Present Value of Future Normal Costs over the working lifetime of the active participants. The Normal Cost is calculated as a level percent of pay and the amortization payment is calculated as an increasing dollar amount. The interest cost on the outstanding balance of the Unfunded Frozen Initial Liability will decrease each year as the outstanding balance is reduced.

### Overall Actuarial Basis

We believe that the actuarial assumptions, taken as a whole, are reasonable. To the extent that actual experience is better or worse than assumed, actuarial gains or losses will develop, with corresponding decreases or increases in future costs.

### Missing Data

It was necessary to make certain "non-actuarial" assumptions where data was missing or incomplete with respect to some individual participants. In all cases, we assumed such individuals had the same average characteristics as other participants within the same category (e.g. male members age 37 with unknown service were assumed to have the same service distribution as male members age 37 with known service).

Table 10

Expected Number of Years of Life
Remaining at Specified Ages

Age	Male	Female
55	22.7	28.0
56	21.9	27.1
57	21.1	26.2
58	20.3	25.3
59	19.5	24.4
60	18.8	23.5
61	18.0	22.6
62	17.3	21.8
63	16.5	20.9
64	15.8	20.1
65	15.1	19.2
66	14.4	18.4
67	13.8	17.6
68	13.1	16.8
69	12.5	16.0
70	11.9	15.3
71	11.3	14.5
72	10.8	13.8
73	10.3	13.1
74	9.7	12.4
75	9.2	11.7

1971 Group Annuity Mortality Table.

RHODE ISLAND ERS

# VI. RESULTS OF VALUATION

## State Employees

The costs for State Employees as of June 30, 1986, including all benefit changes through that date, developed as follows:

	<u>Item</u>	Amount	% of Payroll
(1)	Participating payroll	\$293,816,800	
(2)	Employer normal cost	7,017,400	2.3884%
(3)	Frozen unfunded actuarial liability as of July 1, 1986	419,546,700	_
(4)	Interest on unfunded actuarial liability	29,270,500	10.0
(5)	Amortization payment	1,761,000	0.6

The funding statute calls for the State to contribute 100 per cent of the projected normal cost plus 100 per cent of the interest on the unfunded actuarial accrued liability (as of June 30, 1986) plus an amortization payment equal to two times 0.215% of the frozen unfunded liability as of June 30, 1985 plus the increase in liability for changes in liability of more than 1% of the outstanding unfunded liability for the 1987-88 fiscal year. Based on this requirement and a projected participating payroll of \$321,700,000, the 1987-88 employer contribution "rate per cent" for State Employees is 12.5 per cent of payroll as developed below.

Projected
Payroll
,000
,500 2.4%
5,000 12.0
6,800 12.5

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The calculations, as completed through line 8 on the previous page, determine the employer contribution to be paid into the retirement fund at the beginning of each year with interest earnings starting from that date. However, contributions to the Fund are made monthly. Thus, about half a year's interest is lost, and the contribution must be increased to reflect this. Line 9 on the previous page reflects this adjustment.

The "rate per cent" of 12.5 per cent of payroll (shown on line 9) is the same as the previous year.

#### Teachers

The costs for Teachers as of June 30, 1986, including all benefit changes through that date, developed as follows:

	<u>Item</u>	Amount	% of Payroll
(1)	Participating payroll	\$308,439,200	
(2)	Employer normal cost	7,199,500	2.3342%
(3)	Frozen unfunded actuarial liability as of July 1, 1986	732,327,300	_
(4)	Interest on unfunded actuarial liability	51,092,300	16.6
(5)	Amortization payment	3,113,900	1.0

Applying the funding statute to the Teachers' costs and a <u>projected</u> participating payroll of \$347,700,000 results in a contribution "rate per cent" requirement for fiscal 1987-88 of 18.6 per cent. Half of this rate (9.30%) is payable by the State and half by the municipalities. The "rate per cent" is developed as follows:

	Item	•	% of Participating
(6)	Projected 1987-88 participating payroll	Amount	Payroll
(7)	1987-88 employer normal cost = 2.3342% x (6)	\$347,700,000	
(8)	Required contribution payable	8,116,000	2.3%
	July 1, 1987 = $1.00 \times (7) + 1.00 \times (4) + 1.00 \times (5)$	62,322,200	17.9
(9)	Required contribution payable monthly = (8) plus interest	,	2012
	adjustment	64,659,300	18.6

The calculations, as completed through line 8 above, assume that the employer contributions will be paid into the retirement fund at the beginning of each fiscal year and will start to earn interest from that date. However, contributions will be deposited monthly so that approximately half a year's interest is lost, and the contribution must be increased to reflect this. Line 9 above reflects this adjustment.

The "rate per cent", measured by line 9 above, is 18.6 per cent of payroll. This compares to 18.9 per cent for the previous year.

### Teacher Survivors

Because data on dependents of teachers is not available, it is not possible to do a thorough analysis of the Teachers Survivor program. However, through the use of assumed ages for members and their spouses and children, we were able to determine that the current assets of \$36.8 million together with the future income will be sufficient to cover the actuarial liabilities of this program. Currently the employee and the employer each contribute one per cent of salary up to \$9,600 for a maximum contribution of \$192 annually. Contributions in recent years on behalf of the approximate 5,500 members have been approximately \$1 million while the benefit payments have generally been somewhat less. For the 1985-86 year, contributions totalled \$1,026,000 and benefit payments were \$1,044,000.

# Value of Vested Benefits

In private pension plans, it is customary for the actuary to provide the "value of vested benefits". This figure is used by accountants in preparing financial statements, both as a disclosure item and as a factor in determining the provision for pension expense, in accordance with Opinion No. 8 of the Accounting Principles Board of the American Institute of Certified Public Accountants, "Accounting for the Cost of Pension Plans". While we recognize that the State may not be covered by this Opinion, a brief discussion of this subject may be helpful.

The "value of vested benefits" represents the single sum value, based on the Plan's investment return, mortality, and retirement age assumptions. of all benefits to present and former employees which do not have future employment by the employee as a required condition for their receipt. Thus, it includes the present value of an immediate or deferred pension for all pensioners, beneficiaries, and active participants with at least ten years of service. For active employees with less than ten years of service and inactive vested employees, only the accumulated employee contributions are included.

For the Employees' Retirement System, the value of vested benefits as of June 30, 1986 is as follows:

	State Employees	Teachers
Active members	\$367,451,400	\$465,333,500
Inactive members	6,013,100	10,175,600
Retired members	417,011,600	381,429,400
Total value of vested benefits	\$790,476,100	\$856,938,500
Assets at actuarial value	535,184,800	533,018,300
Unfunded value of vested benefits	\$255,291,300	\$323,920,200

### overall Status of System

Legislation in January, 1979 effectively returned the System to its former statutory funding schedule beginning with the 1979-80 fiscal year. (Actually, the accelerated funding provided for by the General Assembly in 1978 was never used as the basis for determining contributions as its effective date was deferred for one year to July 1, 1979, by which date the further revision of the law superseded it.)

As the funding law currently exists, beginning with the fiscal year starting July 1, 1986, the statutory contribution comprises the normal cost, amortization of the June 30, 1985 unfunded liability and certain changes in that liability based on the sum-of-the-digits method over 30 years, and interest on the outstanding balance of the unfunded liability.

We believe that the funding program as set forth in the state statute is a reasonable basis for funding the Rhode Island Retirement System. If the statutory funding program is followed without change, the System will be fully funded--that is, the assets will equal the actuarial liability on June 30, 2016. In the interim, the assets are projected to be sufficient at all times to meet the cash requirements for projected benefit payments.

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## APPENDIX

MODEL FORM SUMMARY STATEMENT RE CITY AND TOWN PARTICIPATION
IN TEACHERS' RETIREMENT SYSTEM FOR PURPOSES OF
FINANCIAL STATEMENTS AND REPORTS,
MUNICIPAL BOND REGISTRATION STATEMENTS, ETC.

The (city) (town) of \_\_\_\_\_\_\_ provides retirement benefits to its public school teachers through its participation in the Rhode Island Retirement System, a statutory, mandatory, state-wide, multi-employer retirement system, which first covered Rhode Island teachers on July 1, 1949. This System is administered as a unified state-wide system by the State Retirement Board, the composition of which is set forth in the pertinent state statute. The assets are held in the custody of the State Treasurer as an undivided single fund.

The actuarial costs of the retirement benefits are partially funded by employee contributions of 8 1/2 per cent of pay effective July 1, 1986.

The net employer actuarial costs are determined annually by the actuary and as provided by statute are certified by the Retirement Board to the Department of Administration as a rate per cent of payroll, payable one half by the State of Rhode Island and one half by the (city) (town). The statute provided for increasing graduated percentages of the annual normal cost and interest on the unfunded liability until the year beginning July 1, 1986 when the full normal cost and amortization payments on a 30-year schedule are required.

Actuarial valuations prepared by Martin E. Segal Company, applying the entry age normal cost method with the frozen initial liability, assuming 7 1/2 per cent interest return on invested assets and applying assumed rates of salary progression, allowance for post-retirement increases and other actuarial assumptions—all as set forth in the published annual reports of the Retirement Board—reveal the following comparative highlights of the last three years for the Teachers' System as a whole:

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Year Beginning July 1,

	Year	Beginning July	1,
	1984	1985	1986
Active participants	10,003	10,016	9,886
pensioners and beneficiaries	3,108	3,167	3,261
Inactive participants	1,454	1,946	2,030
Liability for accrued yested benefits	\$768,202,000	\$776,178,300	\$856,938,500
Net assets at actuarial value for 1986 and 1985, and as reported by State for 1984	335,799,800	417,985,200	533,018,300
As shown in State's financial statements:	Ye	ar Ended June 30	
	1984	1985	1986
Employer contributions	\$37,514,713	\$ 52,886,808	\$ 60,405,655
Member contributions	17,519,110	20,584,746	24,932,383
Total contributions	\$55,033,823	\$ 73,471,555	\$ 85,338,038
Net miscellaneous income	125,094	121,384	312,202
Investment income	30,374,935	32,639,521	47,947,261
Total income available	205 522 952	\$106,232,459	\$133,597,501
for benefit payments	\$85,533,852	34,417,225	37,444,543
Benefit payments	32,358,874	34,427,223	
Excess of income	\$ <u>53,174,978</u>	\$ <u>71,815,<b>23</b>4</u>	\$ 96,152,959

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

over expenses

Actuarial costs and liabilities, as shown in the summary presentation, are determined in the aggregate for the Teachers System. Accordingly, employer contributions are first determined in the aggregate for all participating employers in this multi-employer system; are then expressed as a rate per cent of the aggregate participating payroll; and one half this rate per cent is then promulgated to each participating employer as the actuarial cost factor to be applied to its participating payroll (the remaining one half of the employer cost is contributed by the State).

Employer contributions by (city) (town) of \_\_\_\_\_\_\_ for each of the last two years (together with the amount for the current year, based on the promulgated rate per cent of 9.30 per cent) are as follows:

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Year Ending June 30,

1984

1985

1986 (est.)

Participating payroll
Employer contributions

With respect to the Teachers Retirement System, Martin E. Segal Company, independent actuaries advising the Retirement Board have stated on January 7, 1987:

"We believe that the funding program set forth in the state statute is a reasonable basis for funding the Rhode Island Teachers Retirement System. If the statutory funding program is followed without change, the System will be fully funded—that is, the assets will equal the actuarial liability on June 30, 2016. In the interim the assets are projected to be sufficient at all times to meet the cash requirements for projected benefit payments."

According to the statutory funding schedule, the contributions required each year of the (city) (town) of \_\_\_\_\_\_ and the State will remain relatively level as a percent of payroll as the System moves toward funding the full actuarial liability. Ultimately, however, because the actuarial funding results in the accumulation of reserves that are invested, the required appropriation will be significantly less than would be required if this System were on a pay-as-you-go basis.

MARTIN E. SEGAL COMPANY

607 BOYLSTON STREET BOSTON, MASSACHUSETTS 02116 (617) 262-0550

January 7, 1987

# 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, 1986.

This certificate contains the following attached exhibits:

EXHIBIT I - Actuarial Cost Development of Fiscal Year

1987-88 Contribution Percentage

A. State Employees

B. Teachers

EXHIBIT II - Actuarial Assumptions and Cost Method

EXHIBIT III - Summary of Plan Provisions

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

MARTIN E. SEGAL COMPANY, INCORPORATED

James R. Laws, F.S.A., M.A.A.A.

Vice President and Actuary

JRL/hva D43

# EXHIBIT I

# ACTUARIAL COST FOR DEVELOPMENT OF FISCAL YEAR 1987-88 CONTRIBUTION PERCENTAGE

# A. STATE EMPLOYEES

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

- a. 14,735 active participants (including 6,859 fully vested) with total annual salaries of \$293,816,800
- b. 1,675 inactive participants
- 6,316 pensioners (including 455 beneficiaries of deceased pensioners and active employees)

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

	actualia: 1400000
1.	Actuarial present value of benefits - total \$1,202,111,100
	Active employees
2.	Actuarial value of assets
3.	Present value of future employee contributions
4.	Unfunded frozen actuarial liability
5.	Actuarial present value of future normal costs (item 1 - item 2 - item 3 - item 4)
6.	Actuarial present value of future compensation 2,470,001,100
7.	Normal cost percentage (item 5 / item 6)
8.	Total compensation of employees below the assumed retirement age
9.	Normal cost (item 7 x item 8)
10.	Interest on unfunded frozen actuarial liability 29,270,500
	Payment required to amortize unfunded frozen actuarial liability over 30 years (29 years remaining from July 1, 1987) in installments which increase in multiples of 0.215% per year
12.	Total annual cost if paid on July 1, 1986 (item 9 plus item 10 plus item 11)

(Continued...)

MARTIN E. SEGAL COMPANY

### EXHIBIT T

# ACTUARIAL COST FOR DEVELOPMENT OF FISCAL YEAR 1987-88 CONTRIBUTION PERCENTAGE

# A. STATE EMPLOYEES (Continued)

13. Total annual cost if paid in uniform installments throughout the year (item 12 plus one-half year's interest)\$39,475,700
14. Total annual cost based on 1987-88 projected participating payroll of \$321,700,000 if paid in uniform installments throughout the year
15. Item 14 amount as a percent of payroll 12.5%
Present value of accrued vested benefits: \$790,476,100
Note: Included are 170 active employees unknown as to age, service, or both. Status of beneficiaries was unclear. The liability included for inactive employees is the sum of their accumulated contributions.

# EXHIBIT I

# ACTUARIAL COST FOR DEVELOPMENT OF FISCAL YEAR 1987-88 CONTRIBUTION PERCENTAGE

# B. TEACHERS

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

- a. 9,886 active participants (including 7,460 fully vested)
   with total annual salaries of \$308,439,200
- b. 2,030 inactive participants
- c. 3,261 pensioners (including 130 beneficiaries of deceased pensioners and active employees)

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

The	actuarial factors as of the valuation deliberation \$1.615.771.200
1.	Actuarial present value of benefits - total
	Active employees
2.	Actuarial value of assets
	Present value of future employee 273,341,900 contributions
4.	Unfunded frozen actuarial liability
	Actuarial present value of future normal costs (item 1 - item 2 - item 3 - item 4)
6.	Actuarial present value of future compensation 3,215,786,900
7.	Normal cost percentage (item 5 / item 6)
8.	Total compensation of employees below the assumed retirement age
9.	Normal cost (item 7 x item 8)
10.	Interest on unfunded frozen actuarial liability 51,092,300
11.	Payment required to amortize unfunded frozen actuarial liability over 30 years (29 years remaining from July 1, 1987) in installments which increase in multiples of 0.215% per year
12.	Total annual cost if paid on July 1, 1986 (item 9 plus item 10 plus item 11)

(Continued...)

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### EXHIBIT I

## ACTUARIAL COST FOR DEVELOPMENT OF FISCAL YEAR 1987-88 CONTRIBUTION PERCENTAGE

### B. TEACHERS (Continued)

)
)

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### EXHIBIT II

# ACTUARIAL ASSUMPTIONS AND COST METHOD

Mortality rates -- 1971 Group Annuity Mortality Table

Disability mortality before age 65 -- Age 65 mortality under stipulated table

Termination rates before retirement:

# State Employees (Rate %)

Age	<u>Death</u> *	Disability	Withdrawal	Total*
20	.05	.06	21.20	21.31
25	.06	.09	15.80	15.95
30	.08	.11	11.60	11.79
35	.11	.15	8.40	8.66
40	.16	.22	6.20	6.58
45	.29	.36	4.20	4.85
50	.53	.61	2.60	3.73
55	.85	1.01		1.86
60	1.31			1.31

15% of the above disability rates are assumed service-connected.

### Teachers (Rate %)

Age	Death*	Disability	Withdrawal	Total*
20	.05	.06	12.39	12.50
25	.06	.09	9.70	9.85
30	.08	.11	7.50	7.69
35	.11	.15	5.66	5.92
40	.16	. 22	4.14	4.52
45	. 29	.36	2.75	3.41
50 55	.53	.61	1.35	2.49
60	.85	1.01		1.86
00	1.31			1.31

15% of the above disability rates are assumed service-connected.

Note: Detail rates may not add to totals shown due to rounding.

Salary scale:

Age	Present salary as a $\%$ of salary at 65	Annual increase (Rate %)
20	11.30	
25	15.00	5.85
30	19.79	5.77
35	25.91	5.61
40	33,52	5.41
45	42.66	5.09
	Andrew Artist	4.73
50	53.43	4.45
55	66.26	4.34
60	82.02	4.17

Includes allowance for inflation of 4% per year.

Unknown characteristics of employees: Same as those exhibited by employees with known characteristics. Unknown salary is assumed to be \$10,000 for State Employees and \$15,000 for Teachers.

Retirement age -- State Employees: 63, or completion of service requirement, if later. Teachers: 61 1/2, or completion of service requirement, if later.

Post-retirement increases -- 3% compounded annually

Percent married -- Social Security awards during 1972

Net investment return -- 7 1/2%

Actuarial value of assets --

Sum of Preliminary Value and write-up, but no more than 120% of market value or less than 80% of market value. Preliminary Value is actuarial value of assets at beginning of the year plus increase in cost value during the year, excluding realized capital gains or losses. Write-up is 20% of market value at end of year in excess of preliminary value.

If Preliminary Value exceeds market value, there is a write-down of assets determined in a similar manner.

Actuarial cost method -- Frozen initial liability method. The method is also referred to as the entry age normal cost method with frozen initial liability.

Entry age is the employee's age at the time he or she would have commenced employment if the plan had always been in existence.

<sup>\*</sup>Rates shown for men; rates for women are slightly lower.

Frozen actuarial liability calculated on an individual basis and the outstanding balance of the unfunded amount is based on expected value regardless of actual contributions. It is funded over the 30-year period ended June 30, 2016. Payment on outstanding balance of unfunded frozen initial liability based on sum of (1) interest on outstanding balance, and (2) a payment towards principal The principal portion of the payment is based on the sum-of-the-digits amortization method.

### EXHIBIT III

# SUMMARY OF PLAN PROVISIONS

# Service pension

	General	Employees	Correctional Officers	Legis	lators
Age requirement:	60	None	50	55	None
		or		c	or
Service requirement:	10 yrs.	30 yrs.	20 yrs.	8 yrs.	20 yrs.

Amount: 1.7% of final average salary up to 10 years of service plus 1.9% per year for the next 10 years of service plus 2.4% for the next 10 years of service plus 6% for the 31st year plus 5% for the 32nd year plus 4% for the 33rd year plus 3% for the 34th year plus 2% for the 35th year. The maximum benefit is 80% of final average salary after 35 years of service. Final average salary is defined as the average of compensation earned during the highest 3 consecutive years prior to termination. Correctional officers receive 2% of final average salary per year of service. Legislators receive \$300 per year of service to a maximum of \$6,000.

### Disability

### Non-occupational:

Age requirement: None Service requirement: 5 years Amount: Regular pension based on service accrued and final average salary at disability, payable immediately. The minimum retirement percentage is 17% regardless of service.

### Occupational:

Age requirement: None Service requirement: None Amount: 66 2/3% of final salary, payable immediately.

### Vesting

Age requirement: None

Service requirement: 10 years

Amount: Regular pension accrued, payable at age 60.

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# Pre-retirement death benefits

# Lump sum benefit:

Age requirement: None

Service requirement: None

Amount: Sum of (a) \$800 per year of service to a maximum of \$16,000 and with a minimum of \$4,000, and

(b) Refund of employee contributions.

Joint and Survivor benefit (applicable only if elected by employee):

Age requirement: None

Service requirement: 10 years / Legislators: 8 years

Amount: Benefit employee would have received had he retired the day

before he died and elected the joint and survivor option.

## Occupational death benefit:

Age requirement: None

Service requirement: None

Amount: Sum of (a) 50% of salary to spouse or children under

age 18, less workmen's compensation, and

(b) Refund of employee contributions.

### Post-retirement death benefit

Lump sum benefit: Sum of (a) 100% of employee contributions, less benefits paid, and

(b) Pre-retirement death benefit, reduced 25% per year of retirement, but not less than \$4,000.

### Employee contribution rate:

Date	State Employees	Teachers	Legislators
Prior to 7/1/79	5%	6%	30%
7/1/79 - 6/30/82	5 1/2	6 1/2	30
7/1/82 - 6/30/85	6	7	30
7/1/85 - 6/30/86	7	8	30
7/1/86 and later	7 1/2	8 1/2	30

### Available options:

Joint and survivor with 50% or 100% continued to the beneficiary after the death of the employee, Social Security.

## Post-retirement cost-of-living increases:

3% of current amount, compounded, to pensioners and beneficiaries following the third anniversary of retirement. Investments

# SUMMARY OF INVESTMENTS

OPERATIONS: (July 1, 1985 - June 30, 1986	5)	
TOTAL INVESTMENTS - JULY 1, 1985		\$ 869,519,443
ADD: PURCHASES DURING THE YEAR TOTAL		1,067,935,442 1,937,454,885
DEDUCT:  REDEMPTIONS & SALES DURING THE YEAR  TOTAL INVESTMENTS - JUNE 30, 1986		910,645,239 \$ 1,026,809,646
<pre>INVESTMENT ACCOUNT: (By Type of Security) U. S. Government</pre>	\$ 407,595,0	00 39.70
Government National Mortgage Federal National Mortgage International Bank for	6,554,6 2,440,0	
Reconstruction Certificates of Deposit Repurchase Agreements Commercial Paper Federal Home Loan Miscellaneous Railroad Bonds Public Utility Bonds Industrial Bonds Common Stocks Bank Stock Preferred Stock	600,0 90,600,0 6,500,0 106,790,3 300,0 1,200,0 100,0 60,147,0 31,880,2 288,073,3; 16,774,0 7,255,0 \$1,026,809,64	000 8.82 000 .63 222 10.40 000 0.03 000 .12 000 .01 00 5.86 000 3.10 09 28.06 03 1.63 1.63
	. , , , , , , , ,	

	OWNED		
DESCRIPTION			
DESCRITTION	INTEREST	M3	CARRYING
AND THE OF AMPLICA		MATURITY	VALUE
UNITED STATES OF AMERICA			
- Mwaa Surv			
U. S. Treasury	18.875	11-15-86	6,000,000
<u>.</u>	16.125	11-15-86	3,490,000
	12.75	2-15-87	4,000,000
"	12.00	5-15-87	11,000,000
" "	12.375	1-15-88	7,000,000
" "	13.25	4-15-88	10,000,000
" "	14.00	7-15-88	1,750,000
" "	11.75	11-15-88	2,000,000
. "	11.375	2-15-89	3,100,000
	9.25	5-15-89	1,000,000
n n	12.75	11-15-89	4,100,000
m m	10.75	8-15-90	10,000,000
	11.50	10-15-90	4,000,000
11 11	13.00	11-15-90	6,500,000
,, ,,	12.375	4-15-91	
11 11	14.50	5=15-91	5,000,000 10,000,000
n 11	14.625	2-15-92	3,000,000
" "	13.75	5-15-92	9,100,000
	10.375	7-15-92	
		2-15-93	3,000,000
n "	10.875	5-15-93	10,400,000
" "	10.13		10,700,000
" "	11.88	8-15-93 11-15-93	7,000,000 9,000,000
u <b>u</b>	11.75		
" "	11.25	2-15-95	9,800,000
11	9.50	11-15-95	4,500,000
n n	8.88	2-15-96	3,000,000
н н	7.25	8-15-92	5,650,000
11	7.875	2-15-93	750,000
11 11	7.50	8-15-93	3,850,000
II II	8.625	8-15-93	12,355,000
n n	8.625	11-15-93	3,000,000
" "	9.00	2-15-94	10,000,000
" "	8.75	8-15-94	2,000,000
u u	10.125	11-15-94	10,000,000
100	10.50	2-15-95	14,850,000
	12.625	5-15-95	4,500,000
	10.375	5-15-95	12,000,000
" "	11.50	11-15-95	11,000,000
" п	8.50	5-15-99	6,000,000
	7.875	2-15-00	2,500,000
" "	8.375	8-15-00	8,000,000
" "	11.75	2-15-01	5,000,000
" "	8.00	8-15-01	1,000,000
n n	13.375	8-15-01	8,500,000
u u	11.63	11-15-02	10,000,000
" "	10.75	5-15-03	15,000,000
n n	11.88	11-15-03	4,500,000
n n	11.00		
••			

INVESTMENTS	OWNED

			INVESTM			CADDUTA
	DESCRIPT	CION		INTERES	MATURIT	CARRYIN VALUE
UNITED	STATES C	F AMERI	CA	10 27	1- 0/	
U. S.	Treasur	У		12.37		
"	"			10.75	8-15-05	9,000,000
"	"			7.62		
"	"			8.37		~, >00, 001
"				8.75	11-15-08	1,600,000
11				9.12	5-15-09	8,600,000
				10.00	5-15-10	19,500,000
				13.875		8,000,000
"	"			14.00	11-15-11	2,600,000
"	"			10.38	11-15-12	2,000,000
"	"			12.00	8-15-13	4,500,000
	TOTAL					\$377,595,000
II C	Tronguer			8.75	1-15-93	5 000 000
U. S.	Treasury			9.125		5,000,000 5,000,000
n ·				10.50	8-15-88	5,000,000
"				9.875	8-15-90	5,000,000
"	"			9.75	10-15-92	5,000,000
"				9.625	11-15-90	5,000,000
				J. 023		
	TOTAL			3.023		\$407,595,000
y 1	TOTAL			7.023		
, P	TOTAL			7.023		
		NAL MOR'	rgage.	5.023		
	NT NATIO	NAL MOR	IGAGE	7.023		
GOVERNME ASSOC	NT NATIO		IGAGE			\$407,595,000
OVERNME ASSOC: Note -	NT NATION POOL #5	158	IGAGE	7-1/4	01-15-04	254,402.15
OVERNME ASSOC Note - Note -	NT NATION IATION POOL #55	158 877	rgage	7-1/4 7-3/4	01-15-04 05-15-04	\$407,595,000 254,402.15 275,872.16
ASSOC Note - Note - Note -	NT NATION POOL #5	158 877 807	rgage	7-1/4 7-3/4 7-3/4	01-15-04 05-15-04 06-15-04	254,402.15 275,872.16 558,939.93
OVERNME ASSOC: Note - Note - Note - Note - Note -	NT NATION  POOL #5: POOL #4: POOL #3: POOL #6: POOL #7:	158 877 807 633 298	rgage	7-1/4 7-3/4 7-3/4 7-1/4	01-15-04 05-15-04 06-15-04 05-15-05	254,402.15 275,872.16 558,939.93 549,854.15
Note - Note - Note - Note - Note - Note - Note -	NT NATION POOL #5. POOL #44 POOL #38 POOL #66 POOL #72	158 877 807 633 298	rgage	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4	01-15-04 05-15-04 06-15-04 05-15-05 05-15-05	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40
Note - Note - Note - Note - Note - Note - Note - Note -	NT NATION Pool #5. Pool #4. Pool #6. Pool #6. Pool #7. Pool #8. Pool #12	158 877 807 633 298 005	rgage	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2	01-15-04 05-15-04 06-15-04 05-15-05 05-15-05 02-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04
Note - Note - Note - Note - Note - Note - Note - Note - Note -	NT NATION Pool #5. Pool #44 Pool #38 Pool #66 Pool #72 Pool #86 Pool #12	158 877 807 633 298 005 2180	rgage	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2	01-15-04 05-15-04 06-15-04 05-15-05 05-15-05 02-15-06 04-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03
Note - Note - Note - Note - Note - Note - Note - Note - Note - Note -	NT NATION  Pool #5: Pool #4! Pool #6: Pool #7: Pool #8: Pool #12 Pool #12	158 877 807 633 298 005 2180 2168	rgage 	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2	01-15-04 05-15-04 06-15-04 05-15-05 05-15-05 02-15-06 04-15-06 06-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89
Note -	NT NATION Pool #5: Pool #44 Pool #66 Pool #72 Pool #12 Pool #12 Pool #12 Pool #12	158 877 807 633 298 005 2180 2168 2978	rgage —	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2	01-15-04 05-15-04 06-15-04 05-15-05 05-15-05 02-15-06 04-15-06 06-15-06 09-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85
Note -	NT NATION  Pool #5: Pool #44 Pool #66 Pool #72 Pool #12 Pool #12 Pool #13 Pool #13	158 877 807 633 298 005 2180 2168 2978 3268 6089		7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2 8.00	01-15-04 05-15-04 06-15-04 05-15-05 05-15-05 02-15-06 04-15-06 06-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27
Note -	NT NATION  Pool #5: Pool #44 Pool #66 Pool #72 Pool #12 Pool #12 Pool #13 Pool #13	158 877 807 633 298 005 2180 2168 2978 3268 6089		7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2 7-1/2 8.00 8.00	01-15-04 05-15-04 06-15-04 05-15-05 05-15-06 04-15-06 04-15-06 09-15-06 11-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27 546,635.26
Note -	NT NATION  Pool #5: Pool #44 Pool #66 Pool #72 Pool #12 Pool #12 Pool #13 Pool #13	158 877 807 633 298 005 2180 2168 2978 3268 6089	T NATIONAL	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2 7-1/2 8.00 8.00	01-15-04 05-15-04 06-15-04 05-15-05 05-15-06 04-15-06 04-15-06 09-15-06 11-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27
Note - T	POO1 #5: Poo1 #4! Poo1 #3: Poo1 #6: Poo1 #6: Poo1 #7: Poo1 #12 Poo1 #12 Poo1 #13 Poo1 #15 OTAL-GO MORTGAG	158 877 807 633 298 005 2180 2168 2978 8268 0089	T NATIONAL IATION	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2 7-1/2 8.00 8.00	01-15-04 05-15-04 06-15-04 05-15-05 05-15-06 04-15-06 04-15-06 09-15-06 11-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27 546,635.26
Note - T	NT NATION  Pool #5: Pool #4! Pool #3: Pool #6: Pool #7: Pool #12 Pool #12 Pool #13 Pool #15 OTAL-GO MORTGAG	158 877 807 633 298 005 2180 2168 2978 8268 0089	T NATIONAL IATION	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2 7-1/2 8.00 8.00	01-15-04 05-15-04 06-15-04 05-15-05 05-15-06 04-15-06 04-15-06 09-15-06 11-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27 546,635.26
Note - T EDERAL N ASSOCIA	NT NATION  Pool #5: Pool #4! Pool #3: Pool #6: Pool #7: Pool #12 Pool #12 Pool #13 Pool #15 OTAL-GO MORTGAG	158 877 807 633 298 005 2180 2168 2978 8268 0089	T NATIONAL IATION	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2 7-1/2 8.00 8.00	01-15-04 05-15-04 06-15-04 05-15-05 05-15-06 04-15-06 04-15-06 09-15-06 11-15-06	254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27 546,635.26
Note - T EDERAL N ASSOCIA	NT NATION  Pool #5: Pool #4! Pool #3: Pool #6: Pool #7: Pool #12 Pool #12 Pool #13 Pool #15 OTAL-GO MORTGAG	158 877 807 633 298 005 2180 2168 2978 8268 0089	T NATIONAL IATION	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2 7-1/2 8.00 8.00	01-15-04 05-15-04 06-15-05 05-15-05 02-15-06 04-15-06 06-15-06 09-15-06 11-15-07	\$407,595,000 254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27 546,635.26 \$6,554,682.13
Note - T EDERAL N ASSOCIA	NT NATION  Pool #5: Pool #4! Pool #3: Pool #6: Pool #7: Pool #12 Pool #12 Pool #13 Pool #15 OTAL-GO MORTGAG	158 877 807 633 298 005 2180 2168 2978 8268 0089	T NATIONAL IATION	7-1/4 7-3/4 7-3/4 7-1/4 7-1/2 7-1/2 7-1/2 8.00 8.00 8.00	01-15-04 05-15-04 06-15-04 05-15-05 05-15-05 02-15-06 04-15-06 09-15-06 11-15-06 01-15-07	\$407,595,000 254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27 546,635.26 \$6,554,682.13
Note - T EDERAL N ASSOCIA Note Note	NT NATION  Pool #5: Pool #4! Pool #3: Pool #6: Pool #7: Pool #12 Pool #12 Pool #13 Pool #15 OTALGO MORTGAG  ATIONAL	158 877 807 633 298 005 2180 2168 2978 8268 0089	T NATIONAL IATION	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2 8.00 8.00 8.00	01-15-04 05-15-04 06-15-04 05-15-05 05-15-05 02-15-06 04-15-06 09-15-06 11-15-06 01-15-07	\$407,595,000 254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27 546,635.26 \$6,554,682.13
Note - T EDERAL N ASSOCIA Note Note	NT NATION  Pool #5: Pool #4! Pool #3: Pool #6: Pool #7: Pool #12 Pool #12 Pool #13 Pool #15 OTAL-GO MORTGAG	158 877 807 633 298 005 2180 2168 2978 8268 0089	T NATIONAL IATION	7-1/4 7-3/4 7-3/4 7-1/4 7-3/4 8-1/2 7-1/2 8.00 8.00 8.00	01-15-04 05-15-04 06-15-04 05-15-05 05-15-05 02-15-06 04-15-06 09-15-06 11-15-06 01-15-07	\$407,595,000 254,402.15 275,872.16 558,939.93 549,854.15 579,452.40 1,097,763.04 428,910.03 1,417,915.89 260,859.85 584,077.27 546,635.26 \$6,554,682.13

DESCRIPTION  FEDERAL HOME LOAN  INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT  Bonds  TOTAL-INTERNATIONAL BANK FOR RECONSTRUCTION & DEVELOPMENT	7.65 5-3/8	MATURITY 5-26-87 4-01-92	\$ 300,000.00 \$ 600,000.00
CERTIFICATES OF DEPOSIT  Bank of New England Equitable Credit Union R. I. State Emp. Credit Union Citizens Bank Island Trust Co. Eastland Bank Shearson Eastland Bank Citizens Bank R. I. Central Credit Union Citizens Bank R. I. Central Credit Union Citizens Bank Heritage Loan R. I. State Emp. Credit Union Citizens Bank Bank of New England Citizens Bank R. I. Hospital Trust Co. Marquette Credit Union Solomon Brothers Citizens Bank Eastland Bank State Street Bank Citizens Trust Co. Solomon Brothers Bank of New England Kidder Peabody Shearson Citizens Trust Co.	6.85 7.76.6 6.0 6.0 7.0 7.0 7.0 7.0 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.5 6.6 6.7 6.5 6.6 6.6 6.6 6.6 6.6 6.7 6.7 6.7 6.7 6.7	7-8-86 7-15-86 7-15-86 7-15-86 7-15-86 7-15-86 7-15-86 7-15-86 7-15-86 7-15-86 7-21-86 7-21-86 7-21-86 7-21-86 7-21-86 7-31-86 7-31-86 7-31-86 7-31-86 7-31-86 7-31-86 8-1-86 8-1-86 8-7-86 8-7-86 8-7-86	500,000.00 100,000.00 200,000.00 200,000.00 500,000.00 500,000.00 500,000.00 1,000,000.00 250,000.00 1,000,000.00 250,000.00 1,000,000.00 2,500,000.00 1,000,000.00 2,500,000.00 1,000,000.00 1,250,000.00 1,250,000.00 1,250,000.00 1,250,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00

				OIIII		
INVESTMENTS OWNED			- TONION	Time		CARRYING
		CARRYING	DESCRIPTION	INTEREST	MATURITY	VALUE
DESCRIPTION INTEREST MAT	TURITY	VALUE	TOATES OF DEPOSIT			
			CERTIFICATES  Eastland Bank  Eastland Trust Co.	6.70	10-14-86	1,000,000.00
CERTIFICATES OF DEPOSIT			Fastland Bank Citizens Trust Co. Citizens New England	6.75	10-14-86	500,000.00
6.65 8-	3-12-86	1,000,000.00	1. Of NEW Brightana	6.80	10-14-86	1,000,000.00
Old Stone Bank	3-13-86	500,000.00	Eastland Bank	6.90	10-14-86	1,250,000.00
Citizens Trust Co.	3-14-86	300,000.00	Eastland Bank	6.90	10-31-86	1,000,000.00
Citizens Trust Co. 6 55 8-	3-19-86	2,000,000.00	Eastland Bank	6.70	10-31-86	2,000,000.00
Old Stone Bank		2,000,000.00	Shearson	6.60	11-18-86	1,000,000.00
R. I. Hospital Trust Co.	3-19-86	500,000.00	Shearson Bank of New England	7.00	11-28-86	150,000.00
Citizens Trust Co.		2,000,000.00	. Toan	6.85	11-28-86	3,500,000.00
		1,000,000.00	gitizens Trust Co.	6.85	11-28-86	
Chearson 6.7			.land Bank			2,500,000.00
Old Stone Bank		1,000,000.00	n t Hospital Trust Co.	6.60	11-28-86	1,000,000.00
Old Stone Bank 6.75		1,000,000.00	peoples Trust CO.	6.75	11-28-86	300,000.00
Citizens Trust Co. 6.75	3-29-86	500,000.00	- I of New England	6.55	11-28-86	2,000,000.00
R. T. Hospital Trust Co. 6.75	3-29-86	,000,000.00	cogurity Bank & Trust Co.	6.75	12-24-86	1,000,000.00
Citizens Trust Co. 6./5		2,000,000.00	Fleet National Bank	12.25	8-19-88	2,000,000.00
R. I. Hospital Trust Co. 6.65 8-	3-29-86	2,000,000.00				\$90,600,000.00
Shearson 6.75 8-	3-29-86	2,000,000.00	TOTAL - CERTIFICATES OF DEPOSIT			\$90,600,000.00
Bank of New England 6.6 8-	3-29-86	1,000,000.00	TOTAL - CHRIST STREET			
	3-29-86	1,000,000.00				
		1,000,000.00				
Ballk Of New Eligiana	7-16-86	300,000.00	MISCELLANEOUS			
CICIZENS Hust co.		1,000,000.00	Limited Partnership			700,000.00
Citizens ilust co.	7-25-86	500,000.00	Narragansett First Fund		3-1-97	250,000.00
CILIZERS Hust co.		1,000,000.00	State of Israel Bond	7.50	6-1-95	150,000.00
R. I. Mospical Huse co.	7-31-86	300,000.00	State of Israel Bond	7.50		100,000.00
CICIZENS II use co.	7-31-86	500,000.00	State of Israel Bond	7.50	7-1-98	
CICIZENS II use co.	7-31-86	250,000.00				\$ 1,200,000.00
CICIZCHE HADE CO.		400,000.00	TOTAL - MISCELLANEOUS			
Daine of them together	3-12-86					
Bub cruita Duini		1,000,000.00				
nonpose of the second		1,000,000.00	DEDUIT OUT OF THE PROPERTY OF			
CICIEO Danni	9-3-86	300,000.00	REPURCHASE AGREEMENTS	6.80	9-2-86	1,000,000.00
	9-8-86	350,000.00	Carolan & Co.		9-16-86	1,000,000.00
	9-9-86	250,000.00	Carolan & Co.	6.85	9-16-86	1,000,000.00
	9-16-86	900,000.00	Carolan & Co.	6.70	11-18-86	2,500,000.00
Pawtucket Savings & Trust Co. 6.50 9-	9-16-86	250,000.00	Carolan & Co.	6.55	7-31-86	1,000,000.00
Peoples Trust Co. 6.75 9-	9-16-86	500,000.00	Carolan & Co.	6.75	/- 31 00	\$ 6,500,000.00
Bank of New England 6.7 9-	9-16-86	850,000.00				<del>\$ 0</del> /500/
Eastland Bank 6.6 9-	9-16-86	1,200,000.00	TOTAL - REPURCHASE AGREEMENTS			
Citizens Bank 6.7 9-	9-16-86	2.100.000.00	TOTAL - REPURCHASE MOILE			
R. I. C. U. L. 6.7 9-	9-16-86	1.000,000.00				
	9-16-86	1.000.000.00	DIDITO TO THE PARTY OF THE PART			
	9-30-86	3,000,000.00	PUBLIC UTILITIES			800,000.00
	9-30-86	2,000,000.00	American Tel. & Tel. Co.	1-3/4	11-01-92	250,000.00
- 1 6 1 - 1 - 1	9-30-86	1,000,000.00	American Tel. & Tel.	4-3/8		250,000.00
C'ili manal Ga	9-30-86	1,000,000.00	Debentures	5-1/2	1-01-9/	100,000.00
Restland Dank		500,000.00	Debentures	4.75	6-01-98	200,000.00
D. T. Control Credit Union	9-30-86	250,000.00	Debentures	5-1/8	4-01-01	2,000,000.00
Booples Trust Co	9-30-86	250,000.00	Debentures	8.80	5-15-05	2,000,000.00
Home Toan and Investment Co	9-30-86	250,000.00	Debentures	8.00		
Kidder Peabody	9-30-86	100,000.00	American Tel. & Tel.			
6.80	LO-14-86	600,000.00				

					OWNED		
	OWNED			DESCRIPTION			CARRYING
	INVESTMENTS OWNED		CARRYING	DEBENDE	INTEREST	MATURITY	VALUE
	INTEREST	MATURITY	VALUE	an malambana Ca			
DESCRIPTION				Michigan Bell Telephone Co	TAP ON DOUB		
	8-5/8	2-01-07	2,000,000.00	pohentules	6-3/8	2-01-05	500,000.00
American Tel. & Tel.	7-5/8	9-01-01	1,000,000.00		4-5/8	8-01-96	175,000.00
Baltimore Gas & Electric	, .				8-5/8	2-01-10	500,000.00
Bell Tel. Co. of Pa	4-3/4	5-01-01	200,000.0	Michigan Berriad Amountain State Tel. & Tel.	8.00	10-01-09	1,000,000.00
Dohontures	5-1/8	4-01-96	250,000.00	Mountain			
Carolina Power & Light Co.	4.00	7-01-88	100,000.00				
Central Illinois Light Co.	8-5/8	4-01-09	500,000.00	New England Power	4.00	6-01-88	200,000.00
Chesaneake-Potomac Tel.	7-1/4	5-01-09	500,000.00	New England Tower	7-5/8	7-01-02	1,000,000.00
Chesapeake-Potomac Tel.		3-01-10	500,000.00	New England Power	8-5/8	8-01-03	1,000,000.00
Chesaneake-Potomac Tel.	8-3/4	3-01-10	300,000.00	New England Power	8.00	11-15-03	500,000.00
Columbia Gas System, Inc	40	10 01 00	150 000 00	England Tel. & Tel.	7-3/8	10-15-07	700,000.00
Debentures	4-7/8	10-01-90	150,000.00	England Tel. & Tel.		11-01-00	100,000.00
Consolidated Edison Co			200 200 20	Jarsey Bell Tel. Co.	4-7/8	11-01-00	100,000.00
First Refunding Mortgage	4-5/8	12-01-93	300,000.00	Now York Telephone Co	2.00	10 15 00	110,000.00
First Refunding Mortgage	4-1/4	10-01-86	300,000.00	Refunding Mortgage	3.00	10-15-89	125,000.00
First Refunding Mortgage	5.00	10-01-87	225,000.00	Refunding Mortgage	4-1/8	7-01-93	
First Refunding Mortgage	4.00	06-01-88	100,000.00	Refunding Mortgage	4-7/8	1-01-06	250,000.00
Consolidated Natural Gas Co.	_			Refunding Mortgage	7-1/2	3-01-09	500,000.00
Consolidated Natural Gas Co.	9.00	07-01-95	472,000.00	Niagara Mohawk Power Co			
Debentures	3-7/8	06-01-88	250,000.00	Niagara Montagage	3-7/8	6-01-88	300,000.00
Delaware Power & Light Co.	7.00	11-01-98	250,000.00	General Mortgage	4-3/4	4-01-90	200,000.00
Delmarva Power	7.00	11 01 11		General Mortgage	8.00	7-01-98	1,000,000.00
Duke Power Co	4-1/2	2-01-92	100,000.00	Northern Illinois Gas Co.			
First Refunding Morggage	$\frac{4-1/2}{4-1/2}$	2-01-92	300,000.00	Northern States Power Co	4.00	7-01-88	100,000.00
Duke Power	7.00	2-01-99	500,000.00	First Mortgage	6-3/4	5-01-98	500,000.00
Duke Power		3-01-00	1,000,000.00	First Mortgage	7.00	1-01-09	500,000.00
Duke Power	8-1/2		1,000,000.00	Northwest Bell	6-1/4	1-01-07	500,000.00
Duke Power	8-3/8	10-01-06	1,000,000.00	Northwestern Bell Tel.	8-1/8	3-15-17	500,000.00
Florida Power & Light Co			100,000.00	Northwestern Bell Tel.	9-1/0	J	
First Mortgage	4-5/8	3-01-95	500,000.00	Oklahoma Gas & Electric Co	3-7/8	6-01-88	200,000.00
Florida Power & Light Co.	5.00	12-01-95	2 200 000 00	First Mortgage		1-01-97	250,000.00
Florida Power & Light Co.	11.30	5-11-10	2,000,000.00	First Mortgage	5-1/8	1 01 3.	
Florida Power Corp.	7-3/8	6-01-02	1,000,000.00	Pacific Gas & Electric Co	/2	6-01-93	200,000.00
First Mortgage	4-7/8	11-01-95	250,000.00		4-1/2	6-01-97	150,000.00
First Mortgage	7.00	12-01-98	250,000.00	First & Ref. Mortgage	4-5/8	6-01-98	250,000.00
Florida Power	7-5/8	1-10-01	250,000.00	First & Ref. Mortgage	5-3/8	8-15-88	300.000.00
General Telephone				First & Ref. Mortgage	4-3/8	5-01-00	215,000.00
of California-				Pacific Tel. & Tel.	4-5/8	1-15-09	1,500,000.00
First Mortgage	5.00	12-01-95	100,000.00	Debentures	8-3/8	1-13-09	
Debentures	5-3/4	3-01-92	200,000.00	Potomac Electric Power Co.			
Debentures	7-1/8	12-01-98	500,000.00	Public Service Co. of		- 01 07	100,000.00
Debencures	7-1/8	12-01-90	30.2,	Colorado-	4-3/8	5-01-87	200,000.00
Illinois Bell Telephone Co.				First Mortgage	4-1/2	10-01-91	2007
First Mortgage			100,000.00	First Mortgage			
First Mortgage First Mortgage	4-1/4	3-01-88	100,000.00	Public Service Electric		- 01	200,000.00
	4-3/8	3-01-94	250,000.00	and Gas Co	5-3/4	6-01-91	250,000.00
First Mortgage	6.00	7-01-98	500,000.00	Debentures	4-3/4	9-01-95	200,000.00
First Mortgage	8.00	6-01-05	500,000.00	First Dos Montaggo	5-1/8	6-01-89	2 000 000.00
Iowa Electric	7-7/8	12-01-00	500,000.00	First Ref. Mortgage	8-1/4	4-15-16	1,700,000.00
Iowa Power & Light Co.	4-5/8	1-01-91	200,000.00	First Ref. Mortgage	8-1/8	5-01-17	1,700,000.00
Kentucky Utilities Co.	9-1/8	4-01-04	1,400,000.00	Southern Bell Tel. & Tel.	8-1/0		
Madison Gas & Electric	9-3/4	5-01-04	1,000,000.00	Southern Bell Tel. & Tel.			

Southern California Edison Co First Mortgage	DESCRIPTION	INTEREST	MATURITY	CARRYING VALUE
First Mortgage  First Ref. Mortgage First Ref. Mortgage First Ref. Mortgage Southern California Edison South Central Bell Tel. Southern New England Tel. Southwestern Bell Debentures Southwest Bell Telephone Southern Bell Tel. Southwest Bell Telephone Southwestern Bell First Ref. & Tel. Southwestern Bell Southwestern Bell Bell Tel. Southwestern Bell Bell Telephone Southwest Bell Telephone Southwestern Bell First Ref. Southwestern Bell First Ref. Southwestern Bell Southwest Bell Telephone Southwest Bell Telephone Southwestern Bell Tel. Southwester	Southern California			
First Ref. Mortgage First Ref. Mortgage First Ref. Mortgage Southern California Edison Southern New England Tel. Southwestern Bell Debentures Southwest Bell Telephone Southwest Bell Telephone Southwestern Bell Tel. Southwestern Bell Tel. Southwestern Bell Telephone Southwestern Bell Tel. Southwestern Bell Telephone Southwestern Bell Tel. Southweste		0.1/0	10-15-04	
First Ref. Mortgage  Southern California Edison  South Central Bell Tel.  Southern New England Tel.  Southwestern Bell  Debentures  Southwest Bell Telephone  Southwest Bell Tel.  Southwest Bell Tel.  Southwest Bell Tel.  Southwest Bell Telephone  Southwestern Bell  Southwestern Bell  Southwestern Bell  Southwest Bell Telephone  Southwest Bell Telephone  Southwest Bell Telephone  Southwestern Bell Tel.  Southwes	First Mortgage	8-1/0	10-13-94	700,000.00
First Ref. Mortgage  Southern California Edison  South Central Bell Tel.  Southern New England Tel.  Southwestern Bell  Debentures  Southwest Bell Telephone  Southwest Bell Tel.  Southwest Bell Tel.  Southwest Bell Tel.  Southwest Bell Telephone  Southwestern Bell  Southwestern Bell  Southwestern Bell  Southwest Bell Telephone  Southwest Bell Telephone  Southwest Bell Telephone  Southwestern Bell Tel.  Southwes	First Dof Mortsage	5-1/4	5-15-91	250 000 00
Southern California Edison South Central Bell Tel. Southern New England Tel. Southern New England Tel. Southwestern Bell Debentures Southwest Bell Telephone Southwestern Bell Tel. Southwestern B				400,000.00
South Central Bell Tel. Southern New England Tel. Southwestern Bell Debentures Southwest Bell Telephone Southwestern Bell Tel. Southwestern Bell		8.00	9-16-96	400,000.00
Southern New England Tel.  Southwestern Bell  Debentures  Southwest Bell Telephone  Southwestern Bell Tel. & Tel.  Southwestern Bell Tel.  Southwestern Bell. Tel.  S		8-1/2	11-01-01	500,000.00
Southwestern Bell 8-3/4 8-01-07 1,000,000.00 Debentures 6-3/4 6-01-08 250,000.00 Southwest Bell Telephone 8-1/4 9-01-05 750,000.00 Southwest Bell Telephone 6-7/8 2-01-11 500,000.00 Southwest Bell Tel. & Tel. 8.00 2-15-14 2,000,000.00 Southwestern Bell Tel. 8-1/4 3-01-14 2,000,000.00 Southwestern Bell Tel. 9-1/4 1-15-15 2,000,000.00 Tampa Electric Co. 4-1/4 7-01-88 150,000.00 Tennessee Valley Authority 8-1/4 10-15-94 500,000.00 Tennessee Valley Authority 7-3/4 07-01-98 1,000,000.00 Tennessee Valley Authority 7-3/4 07-01-98 1,000,000.00 Tennessee Valley Authority 7-70 10-01-98 3,000,000.00 Tennessee Valley Authority 7-70 10-01-98 1,000,000.00 Virginia Elec. & Power Co First Ref. Mortgage 3-7/8 06-01-88 200,000.00 Virginia Electric 7-3/8 03-01-01 500,000.00 Virginia Electric 7-3/8 03-01-01 500,000.00 West Penn Power Co First Mortgage 4-5/8 09-01-90 1500,000.00 West Penn Power Solution 7-1/4 01-01-99 250,000.00 West Texas Utilities 7-1/4 01-01-99 250,000.00 Wisconsin Power & Light Co. 8.00 07-01-01 1,000,000.00 Wisconsin Telephone Co. 7-1/4 05-15-99 500,000.00		8-1/8	5-01-08	500.000.00
Debentures		8-3/4	8-01-07	1,000,000.00
Southwest Bell Telephone		6-3/4	6-01-08	250,000.00
Southwest Bell Telephone Southern Bell Tel. & Tel. Southwestern Bell Tel. & Tel. Southwestern Bell Tel. Southwestern Bell Tel. Southwestern Bell Tel. Southwestern Bell Tel. Southwestern Bell. Southwestern Bell. Southwestern Bell. Tel. Southwestern Bell. Southwestern Bell Southwestern Southwestern Southwestern Belle Southwestern Southwestern Sout		8-1/4	9-01-05	750,000.00
Southern Bell Tel. & Tel. 8.00 2-15-14 2,000,000.00 Southwestern Bell Tel. 8-1/4 3-01-14 2,000,000.00 Southwestern Bell Tel. 9-1/4 1-15-15 2,000,000.00 Tenmessee Valley Authority 8-1/4 10-15-94 500,000.00 Tennessee Valley Authority 7-3/4 07-01-98 1,000,000.00 Tennessee Valley Authority 7-3/4 07-01-98 1,000,000.00 Tennessee Valley Authority 7-70 10-01-98 3,000,000.00 Tennessee Valley Authority 7-70 10-01-98 3,000,000.00 Tennessee Valley Authority 7-70 10-01-98 3,000,000.00 Virginia Elec. & Power Co  First Ref. Mortgage 3-7/8 06-01-88 200,000.00 Virginia Electric 7-3/8 09-01-90 150,000.00 Virginia Electric 7-3/8 03-01-01 500,000.00 West Penn Power Co  First Mortgage 4-5/8 09-01-90 500,000.00 West Penn Power 9-5/8 06-01-00 500,000.00 West Penn Power 9-5/8 06-01-00 500,000.00 Wisconsin Power & Light Co. 8.00 07-01-01 1,000,000.00 Wisconsin Telephone Co. 7-1/4 05-15-99 500,000.00		6-7/8	2-01-11	500,000.00
Southwestern Bell Tel.       8-1/4       3-01-14       2,000,000.00         Southwestern Bell. Tel.       9-1/4       1-15-15       2,000,000.00         Tampa Electric Co.       4-1/4       7-01-88       150,000.00         Tennessee Valley Authority       8-1/4       10-15-94       500,000.00         Tennessee Valley Authority       7-3/4       07-01-98       1,000,000.00         Tennessee Valley Authority       7.70       10-01-98       3,000,000.00         Utah Power & Light Co.       4-7/8       09-01-90       100,000.00         Virginia Elec. & Power Co       3-7/8       06-01-88       200,000.00         First Ref. Mortgage       4-5/8       09-01-90       150,000.00         Virginia Electric       7-3/8       03-01-01       500,000.00         West Penn Power Co       4-7/8       12-01-95       275,000.00         West Penn Power       9-5/8       06-01-00       500,000.00         West Texas Utilities       7-1/4       01-01-99       250,000.00         Wisconsin Power & Light Co.       8.00       07-01-01       1,000,000.00         Wisconsin Telephone Co.       7-1/4       05-15-99       500,000.00		8.00	2-15-14	2,000,000.00
Southwestern Bell. Tel. 9-1/4 1-15-15 2,000,000.00 Tampa Electric Co. 4-1/4 7-01-88 150,000.00 Tennessee Valley Authority 8-1/4 10-15-94 500,000.00 Tennessee Valley Authority 7-3/4 07-01-98 1,000,000.00 Tennessee Valley Authority 7.70 10-01-98 3,000,000.00 Utah Power & Light Co. 4-7/8 09-01-90 100,000.00 Virginia Elec. & Power Co First Ref. Mortgage 3-7/8 06-01-88 200,000.00 First Ref. Mortgage 4-5/8 09-01-90 150,000.00 Virginia Electric 7-3/8 03-01-01 500,000.00 West Penn Power Co First Mortgage 4-7/8 12-01-95 275,000.00 West Penn Power 9-5/8 06-01-00 500,000.00 West Texas Utilities 7-1/4 01-01-99 250,000.00 Wisconsin Power & Light Co. 8.00 07-01-01 1,000,000.00 Wisconsin Telephone Co. 7-1/4 05-15-99 500,000.00	Southwestern Bell Tel.	8-1/4	3-01-14	2,000,000.00
Tampa Electric Co. 4-1/4 7-01-88 150,000.00 Tennessee Valley Authority 7-3/4 10-15-94 500,000.00 Tennessee Valley Authority 7-3/4 07-01-98 1,000,000.00 Tennessee Valley Authority 7.70 10-01-98 3,000,000.00 Utah Power & Light Co. 4-7/8 09-01-90 100,000.00 Virginia Elec. & Power Co First Ref. Mortgage 3-7/8 06-01-88 200,000.00 First Ref. Mortgage 4-5/8 09-01-90 150,000.00 Virginia Electric 7-3/8 03-01-01 500,000.00 West Penn Power Co First Mortgage 4-7/8 12-01-95 275,000.00 West Penn Power 9-5/8 06-01-00 500,000.00 West Texas Utilities 7-1/4 01-01-99 250,000.00 Wisconsin Power & Light Co. 8.00 07-01-01 1,000,000.00 Wisconsin Telephone Co. 7-1/4 05-15-99 500,000.00	Southwestern Bell. Tel.	9-1/4	1-15-15	2,000,000.00
Tennessee Valley Authority 7-3/4 07-01-98 1,000,000.00 Tennessee Valley Authority 7.70 10-01-98 3,000,000.00 Utah Power & Light Co. 4-7/8 09-01-90 100,000.00 Virginia Elec. & Power Co First Ref. Mortgage 3-7/8 06-01-88 200,000.00 First Ref. Mortgage 4-5/8 09-01-90 150,000.00 Virginia Electric 7-3/8 03-01-01 500,000.00 West Penn Power Co First Mortgage 4-7/8 12-01-95 275,000.00 West Penn Power 9-5/8 06-01-00 500,000.00 West Texas Utilities 7-1/4 01-01-99 250,000.00 Wisconsin Power & Light Co. 8.00 07-01-01 1,000,000.00 Wisconsin Telephone Co. 7-1/4 05-15-99 500,000.00	Tampa Electric Co.	4-1/4	7-01-88	
Tennessee Valley Authority 7.70 10-01-98 3,000,000.00 Utah Power & Light Co. 4-7/8 09-01-90 100,000.00 Virginia Elec. & Power Co First Ref. Mortgage 3-7/8 06-01-88 200,000.00 First Ref. Mortgage 4-5/8 09-01-90 150,000.00 Virginia Electric 7-3/8 03-01-01 500,000.00 West Penn Power Co First Mortgage 4-7/8 12-01-95 275,000.00 West Penn Power 9-5/8 06-01-00 500,000.00 West Texas Utilities 7-1/4 01-01-99 250,000.00 Wisconsin Power & Light Co. 8.00 07-01-01 1,000,000.00 Wisconsin Telephone Co. 7-1/4 05-15-99 500,000.00	Tennessee Valley Authority		10-15-94	
Utah Power & Light Co.       4-7/8       09-01-90       100,000.00         Virginia Elec. & Power Co       3-7/8       06-01-88       200,000.00         First Ref. Mortgage       4-5/8       09-01-90       150,000.00         Virginia Electric       7-3/8       03-01-01       500,000.00         West Penn Power Co       4-7/8       12-01-95       275,000.00         West Penn Power       9-5/8       06-01-00       500,000.00         West Texas Utilities       7-1/4       01-01-99       250,000.00         Wisconsin Power & Light Co.       8.00       07-01-01       1,000,000.00         Wisconsin Telephone Co.       7-1/4       05-15-99       500,000.00	Tennessee Valley Authority		07-01-98	1,000,000.00
Virginia Elec. & Power Co       3-7/8       06-01-88       200,000.00         First Ref. Mortgage       4-5/8       09-01-90       150,000.00         Virginia Electric       7-3/8       03-01-01       500,000.00         West Penn Power Co       4-7/8       12-01-95       275,000.00         West Penn Power       9-5/8       06-01-00       500,000.00         West Texas Utilities       7-1/4       01-01-99       250,000.00         Wisconsin Power & Light Co.       8.00       07-01-01       1,000,000.00         Wisconsin Telephone Co.       7-1/4       05-15-99       500,000.00	Tennessee Valley Authority	7.70	10-01-98	3,000,000.00
First Ref. Mortgage First Ref. Mortgage First Ref. Mortgage Virginia Electric  West Penn Power Co First Mortgage West Penn Power First Mortgage First Mort	Utah Power & Light Co.	4-7/8	09-01-90	100,000.00
First Ref. Mortgage 4-5/8 09-01-90 150,000.00 Virginia Electric 7-3/8 03-01-01 500,000.00 West Penn Power Co  First Mortgage 4-7/8 12-01-95 275,000.00 West Penn Power 9-5/8 06-01-00 500,000.00 West Texas Utilities 7-1/4 01-01-99 250,000.00 Wisconsin Power & Light Co. 8.00 07-01-01 1,000,000.00 Wisconsin Telephone Co. 7-1/4 05-15-99 500,000.00	Virginia Elec. & Power Co			
Wirginia Electric       7-3/8       03-01-01       500,000.00         West Penn Power Co       4-7/8       12-01-95       275,000.00         West Penn Power       9-5/8       06-01-00       500,000.00         West Texas Utilities       7-1/4       01-01-99       250,000.00         Wisconsin Power & Light Co.       8.00       07-01-01       1,000,000.00         Wisconsin Telephone Co.       7-1/4       05-15-99       500,000.00	First Ref. Mortgage			
West Penn Power Co         4-7/8         12-01-95         275,000.00           First Mortgage         4-7/8         06-01-00         500,000.00           West Penn Power         9-5/8         06-01-00         500,000.00           West Texas Utilities         7-1/4         01-01-99         250,000.00           Wisconsin Power & Light Co.         8.00         07-01-01         1,000,000.00           Wisconsin Telephone Co.         7-1/4         05-15-99         500,000.00	First Ref. Mortgage			
First Mortgage       4-7/8       12-01-95       275,000.00         West Penn Power       9-5/8       06-01-00       500,000.00         West Texas Utilities       7-1/4       01-01-99       250,000.00         Wisconsin Power & Light Co.       8.00       07-01-01       1,000,000.00         Wisconsin Telephone Co.       7-1/4       05-15-99       500,000.00	Virginia Electric	7-3/8	03-01-01	500,000.00
First Mortgage       4-7/8       12-01-95       275,000.00         West Penn Power       9-5/8       06-01-00       500,000.00         West Texas Utilities       7-1/4       01-01-99       250,000.00         Wisconsin Power & Light Co.       8.00       07-01-01       1,000,000.00         Wisconsin Telephone Co.       7-1/4       05-15-99       500,000.00	<i>a</i>			
West Penn Power       9-5/8       06-01-00       500,000.00         West Texas Utilities       7-1/4       01-01-99       250,000.00         Wisconsin Power & Light Co.       8.00       07-01-01       1,000,000.00         Wisconsin Telephone Co.       7-1/4       05-15-99       500,000.00			10 01 05	0.75 0.00 0.0
West Texas Utilities       7-1/4       01-01-99       250,000.00         Wisconsin Power & Light Co.       8.00       07-01-01       1,000,000.00         Wisconsin Telephone Co.       7-1/4       05-15-99       500,000.00				
Wisconsin Power & Light Co.       8.00       07-01-01       1,000,000.00         Wisconsin Telephone Co.       7-1/4       05-15-99       500,000.00				
Wisconsin Telephone Co. 7-1/4 05-15-99 500,000.00			Carrier Landing and African	
•				
TOTAL PUBLIC UTILITIES \$60,147,000.00	Wisconsin Telephone Co.	7-1/4	05-15-99	500,000.00
	TOTAL PUBLIC UTILITIES	3		\$60,147,000.00

### BANKS

Philadelphia National Bank	5-1/2	03-01-92	200,000.00
Columbus National Bank	8.50	02-23-87	300,000.00
Fleet National Bank	9.25	01-01-96	100,000.00
Beneficial Corp.	7.50	11-01-96	500,000.00
Fleet National Bank Old Stone Bank Old Stone Bank Old Stone Bank Mellon Finance Co. Security Pacific Corp.	8.50	04-10-10	1,000,000.00
	12.00	03-19-89	2,000,000.00
	8.79	03-19-89	3,000,000.00
	12.00	03-18-89	1,000,000.00
	9.00	03-01-96	3,000,000.00
	8.875	03-01-93	2,000,000.00

# INVESTMENTS OWNED

DESCRIPTION	NTS OWNED		
	INTEREST	MATURITY	CARRYING VALUE
INDUSTRIAL AND MISCELLANEOUS			VALUE
Atlantic Richfield American Can Co pebentures	10.875	07-15-05	1,000,000.00
American Cyanamid Co.	4-3/4 8-3/8	07-15-90 03-15-06	100,000.00 2,500,000.00
Debentures	4-3/4	05-15-93	100.000.00
Commercial Credit Corp			
Debentures Dow Chemical Co. Dow Chemical Co. Dow Chemical Co. Dow Chemical Co. DuPont E. I. DeNemours Exxon Corp. Dayton Hudson Corp. Exxon Corp. General Motors Acceptance Corp	4-7/8 7-3/4 8-7/8 8-1/2 8-4/5 6.50 9.25 6.00		150,000.00 500,000.00 849,000.00 2,500,000.00 2,000,000.00 350,000.00 2,000,000.00
General Motors Acceptance General Motors Acceptance General Motors Acceptance Gulf Oil Corp. Chevron USA Household Finance Corp. Household Finance CorpDebentures Mobile Oil Co.	7-1/8 8-1/8 8-1/4 5.35 8-1/2 7-1/4 4-7/8 8.50	9-01-92 10-15-96 11-15-06 6-15-91 11-15-95 1-01-90 9-15-93 6-15-01	500,000.00 1,000,000.00 400,000.00 250,000.00 500,000.00 200,000.00 150,000.00 173,200.00
Northwest Bancorporation Phillips Petroleum Co. Pittsburg Plate Glass Scott Paper Co.	5-1/8 11.25 9.00 8-7/8	10-15-90 5-1-13 6-15-95 6-01-00	250,000.00 1,000,000.00 500,000.00 808,000.00
			\$31,880,200.00

TOTAL - BANKS, INDUSTRIAL AND MISCELLANEOUS

INVESTMENT	SOWNED		-
		MARKIDIAN	CARRYING
DESCRIPTION	INTEREST	MATURITY	VALUE
			_
COMMERCIAL PAPER			
	7 15	7-15-86	1 664 234
Soloman Brothers	7.15 7.25	7-15-86	1,664,210.28
Chrysler Corp.	7.10	7-15-86	1,000,000.00
Glichenhaus	6.85	7-31-86	1,958,188.89
Chrysler Finance Corp.		7-31-86	1,712,039.58
Morgan Stanley	6.70	7-31-86	1,468,174.99
Glichenhaus	7.05	7-28-86	1,952,608.33
Goldman Sachs	6.86	7-31-86	2,000,000.00
Carolan & Co.	6.50		1,000,000.00
First Boston	6.6	7-21-86	1,000,000.00
Goldman Bros	6.6	7-31-86	1,000,000.00
Fleet National Bank	6.5	7-31-86	2,000,000.00
Goldman Sachs	6.71	8-7-86	1,000,000.00
Chrysler Finance Corp.	6.81	8-12-86	1,000,000.00
Carolan & Co.	6.55	8-12-86	1,500,000.00
Bankers Trust	6.81	8-12-86	3,000,000.00
Glichenhaus	6.71	8-12-86	1,500,000.00
Glichenhaus	6.71	8-13-86	1,000,000.00
Glichenhaus	6.81	8-18-86	1,000,000.00
Glichenhaus	6.72	8-19-86	1,000,000.00
Soloman Bros.	6.73	8-19-86	2,000,000.00
Soloman Bros.	6.73	8-19-86	1,500,000.00
Bankers Trust	6.73	8-19-86	2,000,000.00
Soloman Bros.	6.72	8-19-86	1,000,000.00
Soloman Bros.	6.83	8-29-86	1,000,000.00
Merrill Lynch	6.68	8-29-86	1,000,000.00
Soloman Bros.	6.82	8-29-86	1,000,000.00
Goldman Sachs	6.98	8-29-86	1,000,000.00
Goldman Sachs	6.67	8-29-86	1,000,000.00
Glichenhaus	6.82	8-29-86	1,500,000.00
Goldman Sachs	6.83	8-29-86	4,000,000.00
Merrill Lynch	6.72	8-29-86	2,000,000.00
Old Stone Bank	6.80	9-16-86	2,000,000.00
Old Stone Bank	6.8	7-8-86	1,250,000.00
U. S. Treasury (short term)		7-17-86	3,985,100.00
Old Stone Bank	6.8	7-31-86	250,000.00
Glichenhaus	6.86	9-02-86	1,000,000.00
Chase Manhattan Bank	6.86	9-03-86	2,000,000.00
	6.96	9-04-86	1,600,000.00
Goldman Sachs			1,000,000.00
Chase Manhattan Bank	6.81	9-4-86	1,000,000.00
Goldman Sachs	6.97	9-8-86	2,000,000.00
Merrill Lynch	6.78	9-16-86	1,000,000.00
Chrysler Finance Corp.	7.02	9-16-86	1,000,000.00
Old Stone Bank	6.80	9-16-86	2,000,000.00
Goldman Bros.	6.96	9-16-86	1,000,000.00
Old Stone Bank	6.9	9-16-86	1,000,000.00
Soloman Bros.	6.91	9-16-86	1,000,000.00
Soloman Bros.	6.71	9-17-86	1,200,000.00

DESCRIPTION  COMMERCIAL PAPER Old Stone Bank Soloman Bros. Soloman Bros. Glichenhaus Goldman Sachs Bankers Trust Old Stone Bank Shearson Glichenhaus Glichenhaus Glichenhaus Glichenhaus Old Stone Bank Old Stone Bank Old Stone Bank Slichenhaus Glichenhaus Old Stone Bank Glichenhaus Old Stone Bank Slooman Bros. Old Stone Bank	6.85 6.84 6.90 6.64 7.01 6.96 6.90 6.70 6.88 6.90 6.85 6.90 6.69 6.69 6.69 6.77 6.67 6.90 6.81	9-17-86 9-30-86 9-30-86 9-30-86 9-30-86 9-30-86 9-30-86 9-30-86 10-14-86 10-14-86 10-14-86 10-31-86 10-31-86 11-18-86 11-18-86 11-28-86	CARRYING VALUE  2,750,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 2,000,000.00 3,000,000.00 3,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 2,000,000.00 2,000,000.00 2,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00 1,000,000.00
Goldman Sachs	6.67 6.90	11-26-86 11-28-86	1,000,000.00
Chase Manhattan  TOTAL - COMMERCIAL PAPER			\$106,790,322.07
RAILROADS			
Atchison, Topeka & Santa Fe Railway - General Mortgage	4.00	7-01-95	\$ 100,000.00 \$ 100,000.00
TOTAL - RAILROADS			

COMMON STOCKS	NO. OF SHARES	COST
BANKS AND HOLDING COMPANIES  Old Kent Financial Corp. Bank of America Fleet Financial J. P. Morgan Old Stone Bank First Interstate Bancorp. Citizens Financial Group TOTAL - BANKS & HOLDING COMPANIES	70,000 200,000 182,570 220,000 40,266 30,000 30,000	\$ 2,612,157.85 3,899,703.98 1,503,709.29 6,506,635.29 761,849.51 608,071.78 881,875.00 \$16,774,002.70
CHEMICALS AND DRUGS  American Home Bristol Myers Dow Chemical Corp. Johnson and Johnson Pfizer (Chas.) Co. Sterling Drug Co.	200,000 200,000 320,000 200,000 280,000 100,000	7,265,109.03 5,969,086.31 8,844,339.57 8,342,600.04 7,553,770.36 2,340,992.42
CONSTRUCTION MATERIAL & EQUIPMENT Caterpillar Tractor	100,000	4,699,863.21
ELECTRONICS  Automatic Data Processing Emerson Electric Corp. International Business Machines Raytheon Corp. Texas Instruments Union Electric Corp. Wang Laboratories Textron, Inc.	16,000 85,000 155,000 170,000 20,000 80,000 150,000 70,000	5,051,237.32 4,663,161.90 11,812,795.44 7,250,214.92 2,051,414.60 847,325.00 4,521,147.35 3,942,781.65
FOOD  McDonalds Corp. Pepsico, Inc. Hershey Foods Corp. Sara Lee Corp.	330,000 630,000 225,000 60,000	8,574,201.14 8,175,460.19 8,330,356.71 2,791,570.85

INVES	TMENTS OWNED	
COMMON' STOCKS	NO. OF SHARES	COST
NEOUS		
MISCELLANEOUS	150.000	5 607 003 04
E. d. Corp.	150,000 170,000	5,697,993.04 4,125,422.05
T Cross Corp.	365,000	9,473,048.04
	100,000	2,549,663.44
oral Motors corp.	119,000	6,907,398.10
<sub>12</sub> 11iburton co.	190,000	7,174,040.48
Schlumberger Square 'D'	175,000 185,000	7,534.824.90 5,134,506.83
payton-Hudson	270,000	9,103,835.74
nelta Airlines	245,000	9,243,761.66
Ford Corp.	195,000	5,657,919.37
Maytag Corp. Noxell Corp Class B	270,000 55,000	7,513,161.18 2,332,334.96
Transamerica Corp.	140,000	4,885,329.04
Transame	0000 50°000€ day 50000	100 € 100 (100 (100 (100 (100 (100 (100
PETROLEUM Pinh Sight Co	219,180	10,352,668.63
Atlantic Richfield Co. Exxon Corporation	200,000	5,819,998.85
Mobil Oil	220,000	5,033,693.36
Standard Oil of California	170,000	5,486,816.68
Standard Oil of Indiana	95,000	3,196,340.18
PAPER AND PAPER PRODUCTS	100.000	5,740,738.50
Kimberly Clark Corp. Owen Illinois, Inc.	190,000 240,000	6,175 085.46
owen fifficis, file.	210,000	
RETAIL STORES		
Federated Stores	90,000	4,496,813.37
K Mart	90,000	2,381,547.27
PUBLIC UTILITIES		
American Tel. & Tel	257,623	4,662,318.92
Florida Power and Light	182,000	4,142,173.97 3,038,421.44
Florida Progress Corp.	144,000 107,524	4,145,261.21
Bell Atlantic Bell South	140,286	4,898,499.73
Louisville Gas and Electric	180,000	5,307,419.73
Pannandle E. Pineline	320,000	9,451,653.20
Texas Utilities	130,000	3,383,278.68
TOTAL COMMON STOCKS		\$288,073,396.02
PREFERRED STOCKS	68,050	\$ 7,255,040.10
Union Pacific	00,030	7 772357013110