REPORT ON THE FIRST ACTUARIAL VALUATION OF THE SOUTH CAROLINA RETIREMENT SYSTEM

As of June 30, 1946 ISO NASSAU STREET EAST OF CITY HALL

GEORGE B. BUCK CONSULTING ACTUARY NEW YORK CITY

CABLE ADDRESS

November 10, 1947.

Retirement Board, South Carolina Retirement System, 1246 Main Street, Columbia 7, S. C.

Gentlemen:

Section 6, Subsection (13), of the Act governing the operation of the South Carolina Retirement System provides that the actuary shall make annual valuations of the assets and liabilities of the funds of the system. By means of the annual valuations, a basis will be furnished for determining the percentage valuations, a basis will be furnished for determining the percentage rates at which contributions are to be made by the employers, in accordance with Section 8, Subsection (3) (a), of the Act. Also, the annual valuations will prove valuable in testing the fitness of the service and mortality tables adopted by the Retirement Board and in keeping the Board informed of the financial progress of the system as a whole.

The first annual valuation of the system, prepared as of June 30, 1946, has now been completed and the results are presented in this report.

The valuation indicates that the only action to be taken by the Retirement Board is to adjust the rates of contribution in accordance with the valuation results. With this adjustment, the system should operate to the satisfaction of the members and the Retirement Board.

Respectfully submitted,

Actuary.

REPORT ON THE FIRST ACTUARIAL VALUATION OF THE SOUTH CAROLINA RETIREMENT SYSTEM

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July 1, 1945. The system is supported by the joint contributions of members and employers. Once a year an actuarial valuation of the system is to be made to determine whether the contributions are proving sufficient to meet the accruing liabilities of the system, and to show whether adjustments are necessary on the basis of the actual experience of the system in order to maintain it in a solvent condition.

This report, prepared as of June 30, 1946, presents the results of the first actuarial valuation of the system since its establishment. It gives first a brief summary of the main benefit and contribution provisions of the system and a statement of the membership on the valuation date. The valuation balance sheet showing the assets and liabilities under the system is then presented. This is followed by recommendations regarding the percentage rates to be used in determining the contributions to be made by employers based on the valuation results.

SUMMARY OF MAIN BENEFIT AND CONTRIBUTION PROVISIONS

A summary of the main benefit provisions of the system, as interpreted in preparing the actuarial valuation, and a summary of the sources of revenue from which benefits are paid is presented in the following digest. The valuation took account of the resolution adopted by the Retirement Board under date of May 21, 1947 which authorized employees' contributions to be matched by the employers to age 65 rather than to age 60, as well as the ruling of the Attorney General to the effect that credit for prior service is to be allowed to July 1, 1945 regardless of the members' age at that time.

Service Retirement Benefit

Conditions for Allowance

Employees

A retirement allowance is payable upon the request of any employee who has attained age 60. Retirement is compulsory at age 65, unless the employer requests him to remain in service. Effective July 1, 1947, any employee may continue in service until attainment of age 72.

Teachers

A retirement allowance is payable upon the request of any teacher who has attained age 60, or who has taught for a period of 35 years. Retirement is compulsory at age 65, provided, however, that no teacher is to be forced to retire prior to June 30, 1947.

The act provides that no retirement allowances or benefits are to be paid prior to July 1, 1947, except that teachers and employees age 65 and over who are certified as mentally and physically incapacitated, and all teachers and employees age 70 and over, who are in service April 26, 1945, may receive allowances on and after July 1, 1946, whether or not such members remain in service until that time. However, teachers who have taught for at least 35 years may retire and receive benefits beginning July 1, 1945. Teachers who had retired since July 1, 1940, and who, at the time of their retirement, had taught for 35 years or more, are eligible for all the retirement benefits provided under the system, on the same terms and conditions that apply to teachers who retire after July 1, 1945.

Amount of Allowance

Teachers and Employees

On service retirement, a member receives a retirement allowance which consists of:

- (a) An employee annuity which is the actuarial equivalent of the member's accumulated contributions at the time of his retirement; and
- (b) An employer annuity equal to the employee annuity allowable at age 65, or at age of retirement, whichever is less, on the basis of contributions made prior to age 65*; and

^{*}Based on resolution adopted by Board on May 21, 1947.

(c) If the member has credit for service rendered prior to the date of establishment, an additional employer annuity allowable at age 65, or at age of retirement, whichever is less, equal to the employee annuity which would have been provided by twice the contributions which he would have made during such prior service had the system been in force and he contributed* thereunder during the period of such prior service.

Disability Retirement Benefit

Condition for Allowance

Teachers and Employees

A disability retirement allowance is payable to any member in service who becomes permanently incapacitated for duty, mentally or physically, and who has had 10 or more years of creditable service**.

Amount of Allowance

Teachers and Employees

Upon disability retirement, a member who has attained age 60 receives a service retirement allowance, otherwise a disability retirement allowance which consists of:

- (a) An employee annuity which is the actuarial equivalent of the member's accumulated contributions at the time of retirement; and
- (b) An employer annuity equal to 75% of the employer annuity that would have been payable upon service retirement at age 60 had the member continued in service to age 60 without further change in compensation.

Return of Contributions

Teachers and Employees

Upon the withdrawal of a member without a retirement benefit, he is paid such part of the principal amount of his accumulated contributions as he demands.

*In determining the contributions which would have been made during prior service, the Retirement Board is authorized to use, in lieu of the actual compensation received by the member, the compensation rates which on the basis of the salary scale adopted by the Board would have resulted in the actual average compensation received by the member during the five years immediately preceding the establishment of the system.

**Creditable service consists of membership service plus prior service.

Upon the death of a member before retirement, the member's accumulated contributions are payable to his designated beneficiary or to his estate.

Should any member, upon ceasing to be a teacher or employee, except by death or retirement, leave an amount equal to at least one payroll deduction in his account, such member shall enjoy all the privileges of membership as enjoyed at the time of such leaving, including his claim to prior service credit, for a period of five years, provided that, upon re-entry into his former field, he pays into the fund an amount not less than the amount withdrawn.

Optional Allowance

Until the first payment on account of any benefit becomes normally due, any member may elect to receive his retirement allowance in accordance with one of the following forms, which are computed to be actuarially equivalent:

Option 1. A reduced retirement allowance payable during the beneficiary's lifetime with the provision that, in case of his death before he has received in payments of his annuity the present value of his employee annuity as it stood at the time of retirement, the balance is to be paid to his legal representative or to such other person as he shall have designated at the time of his retirement.

Option 2. A reduced retirement allowance payable during the beneficiary's lifetime with the provision that, after his death, the reduced retirement allowance is to be continued throughout the life of such other person as he shall have designated at the time of his retirement.

Option 3. A reduced retirement allowance payable during the beneficiary's lifetime with the provision that, after his death, one-half the reduced retirement allowance is to be continued throughout the life of such other person as he shall have designated at the time of his retirement.

CONTRIBUTIONS

By Members

Members contribute, by deduction from each payroll, at the rate of 4% of their earnable compensation.

Employers make annual contributions consisting of a "normal contribution" and an "accrued liability contribution". The "normal contribution" rate is determined by the actuary after each valuation. The "accrued liability contribution" rate is determined by the first actuarial valuation of the system, provided, however, that each year's accrued liability payment is to be at least 3% greater than the preceding annual accrued liability payment. On and after July 1, 1946, all employers' contributions for teachers are to be paid by the State.

MEMBERSHIP OF THE SYSTEM

ACTIVE MEMBERS

The following table shows the number and annual earnable compensation of active members, as of June 30, 1946, on the basis of which the valuation was prepared. Due to the enormous amount of detailed work required in setting up the record system, the complete records for the 26,449 members were not available. However, detailed records were submitted for 21,567 members, and the valuation results were increased to allow for 26,449 members who were reported to be active on June 30, 1946.

In the table, "Members with Prior Service Credit" are members who are entitled to credit for service rendered prior to July 1, 1945, while "New Entrants" are members not entitled to such credit.

TABLE]

THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF ACTIVE MEMBERS

AS OF JUNE 30, 1946

Earnable Compensation: Members wit \$ 15,677,694: 17,871,077	h Prior Ser	Earnable Compensation: rvice Credit \$ 3,325,901: 13,156,911:	10,772	Earnable Compensation
Earnable Compensation Members wit	h Prior Sei	Compensation: rvice Credit : \$ 3,325,901:	10,772	Compensation \$ 12,351,793
Members wit	1,911	\$ 3,325,901:	10,772	\$ 12,351,793
:\$ 15,677,694:	1,911	: \$ 3,325,901:	10,772	\$ 12,351,793
1/30/-30/1			3,078	4,714,166
:\$ 33,548,771		\$ 16,482,812	13,850	\$ 17,065,959
***************************************	New Entran	its		:
:\$ 1,091,004	120 2,218	\$ 157,843 3,278,102	1,004 1,051	\$ 933,161 1,314,621
- (0= 505			2,055	\$ 2,247,782
	8: 10,544	:\$ 19,918,757	15,905	\$ 19,313,741
	4,592,723 5 :\$ 5,683,727	: 4,592,723: 2,210 : \$ 5,683,727: 2,338	: 4,592,723: 2,210 : \$ 5,683,727: 2,338: \$ 3,435,945	: 4,592,723: 2,210 7,210 : \$ 5,683,727: 2,338 \$ 3,435,945: 2,055

RETIRED MEMBERS

The following table shows the number and annual retirement allowances of beneficiaries receiving allowances as of June 30, 1946.

TABLE C

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES RECEIVING RETIREMENT ALLOWANCES AS OF JUNE 30, 1946

GROUP :	NUMBER	EMPLOYEE ANNUITIES	EMPLOYER AT PAYABLE Employer: Annuity Accumus lation Fund: R	FROM: Employer : Annuity	TOTAL RETIREMENT ALLOWANCES
Teachers: Men Women Employees:			Retirements # 14,928 23,916		\$ 14,958 23,937
Men Women Total		\$ 51.	\$ 38,844		\$ 38,895

VALUATION OF ASSETS AND LIABILITIES

The following valuation balance sheet shows the assets and liabilities of the system, as of June 30, 1946, as well as the condition of each fund of the system on that date. The present assets shown on the balance sheet were taken from the financial statement furnished by the Retirement Board.

TABLE 3

VALUATION BALANCE SHEET SHOWING THE ASSETS AND LIABILITIES OF THE SOUTH CAROLINA RETIREMENT SYSTEM
AS OF JUNE 30, 1946

VALUATION BALANCE SHEET SHOWING THE ASSETS AND LIABILITIES OF THE SOUTH CAROLINA RETIREMENT SYSTEM AS OF JUNE 30, 1946

ASSETS		•
Present assets of system creditable to:	: :	
Employee Annuity Savings Fund\$ 1,092,432	:	
Employee Annuity Reserve Fund	:	. •
Employer Annuity Reserve Fund 0	:	
Employer Annuity Accumulation Fund	:	
Total Present Assets	: :\$	2,546,463
Prospective contributions to the Employer Annuity Accumulation Fund:	:	
Normal contributions\$ 10,512,494	:	
Accrued liability contributions	:	
Total Prospective Contributions	:	50,099,078
	:	
	:	
	:	
	:	
	:	
	:	
	:	
	:	
	:	
	:	•
	: :	
	:	
	: :	
	:	(1= ===
Total Assets	\$	52,645,541

VALUATION BALANCE SHEET SHOWING THE ASSETS AND LIABILITIES OF THE SOUTH CAROLINA RETIREMENT SYSTEM AS OF JUNE 30, 1946

LIABILITIES	
Present value of benefits on account of which	
Present value of benefits on about the contributions have been accumulated to date in the contributions have been accumulated to date in the Employee Annuity Savings Fund	1,092,432
Employee Annaicy Savings	
Present value of benefits payable on account of beneficiaries now drawing annuities from the Employee Annuity Reserve Fund	364
Present value of benefits payable on account of beneficiaries now drawing annuities from the Employer Annuity Reserve Fund	0
Manual of state of st	
Present value of benefits payable on account of beneficiaries now drawing annuities from the Employer Annuity Accumulation Fund	417,673
Employer Annuity Accumulation I and	
Present value of benefits to active members with prior service credit to be paid by contributions	
- 11 Chata and Ather Chulty of D Fare	•
Employer Annuity Accumulation Fund	•
the en account of service as members,	•
approximately equal to annutures provided by 9,566,997	• •
Additional service annulation of 34,678,927	:
Disability amarons F	:
Total - All benefits to do the paid by	•
contributions into the Employer Annuity Accumulation Fund	49,664,529
	:
Present value of benefits to active members without prior service credit to be paid by contributions of prior service credit to be paid by contributions of	•
the State and Other emproyers zero	•
Annuity Accumulation Fund:	•
Service annuities on account of service as members, approximately equal to annuities provided by contributions of teachers and employees	; . ;
contributions of teachers and on the State and	; <u>?</u> ;
other employers to active members without	•
	:
contributions into the Employer Annuity Accumulation Fund	1,470,543
Annuity Accumulation Fund	: :\$ 52,645,541
Total Liabliltles	

Section 8 of the act provides in part that the assets of the system shall be distributed according to the purpose for which they are held among four funds, namely, the Employee Annuity Savings Fund, the Employee Annuity Reserve Fund, the Employer Annuity Accumulation Fund and the Employer Annuity Reserve Fund. The valuation balance sheet indicates the following facts regarding each of these funds.

Employee Annuity Savings Fund

The Employee Annuity Savings Fund is the fund to which are credited the contributions made by members together with interest thereon. The refunds of members contributions on death or withdrawal are made from this fund. On the retirement of a member, the reserve on the member's employee annuity is transferred from this fund to the Employee Annuity Reserve Fund.

The valuation balance sheet indicates that the fund has assets and liabilities of \$1,092,432, as of the valuation date, on account of members' contributions accumulated to that date. The future contributions of members into this fund are not shown on the valuation balance sheet since the benefits to be provided by such contributions are considered to be equal in value to the amount of the future contributions and, therefore, do not affect the balance.

Employee Annuity Reserve Fund

Upon the retirement of a member, the amount of his accumulated contributions is transferred from the Employee Annuity Savings Fund to this fund, and his employee annuity is then paid from this fund.

As of the valuation date, the fund is in balance since the assets and liabilities are both \$364.

Employer Annuity Reserve Fund

Upon the retirement of a new entrant member, the reserve on his employer annuity is transferred from the Employer Annuity Accumulation Fund to this fund, and his employer annuity is then paid from this fund.

As of the valuation date, no new entrant members had been retired and the fund was inactive.

The Employer Annuity Accumulation Fund is the fund to which the contributions made by employers are credited and from which are paid all employer annuities or benefits in lieu thereof to members with prior service credit. Although the contributions of employers to provide the benefits of new entrant members are payable to this fund, the reserves on the employer annuities for new entrant members are transferred at retirement from this fund to the Employer Annuity Reserve Fund.

The valuation balance sheet indicates that, as of the valuation date, the Employer Annuity Accumulation Fund has present assets of \$1,453,667. The liability on account of beneficiaries now on the retirement roll is \$417,673. The liability on account of members with prior service credit amounts to \$49,664,529, while the prior service credit amounts to \$49,664,529, while the liability on account of new entrant members amounts to liability on account of new entrant members amounts to \$1,470,543. The total liabilities of this fund, as of the valuation date, therefore, amount to \$51,552,745. The difference between the liabilities and present assets, or \$50,099,078, represents the value of the future contributions of employers. Of this amount, \$10,512,494 is the value of the employers' future normal contributions and \$39,586,584 is the value of the employers' future accrued liability contributions.

Section 8, Subsection (3) (b), of the act provides in part that, until the accrued liability is liquidated, the normal contribution rate is to be determined as the uniform and constant percentage of the earnable compensation of the average new entrant which if contributed throughout his entire period of active service would be sufficient to provide for the payment of any employer annuity payable on his account. The present valuation indicates that a normal rate of 3.39 per cent of compensation on account of teachers and of 1.96 per cent of compensation on account of employees should be contributed by employers. The rate for teachers is higher than the rate certified in the act which was based on the preliminary valuation. This increase is due to a liberalization of the retirement provisions for teachers and a higher average entrance age for the present membership than was used in the preliminary valuation. The normal rate of 2.00 per cent for employees, as set in the act, was an estimated rate; while the rate of 1.96 per cent is less than the estimated rate, it takes into account the liberalization of benefits.

Section 8, Subsection (3) (c), of the act provides in part that, immediately succeeding the first valuation, the actuary is to determine the "accrued liability contribution" rate. This rate is to be determined as the percentage of the total annual compensation of all members which is equivalent to four per cent of the amount of the total employer annuity liability on account of all members

and beneficiaries which is not dischargeable by the normal contribution made on account of such members during the remainder of their active service. An accrued liability contribution rate equal to 5.33 per cent of compensation for teachers and 3.05 per cent of compensation for employees will be sufficient to meet the provisions of this section of the act. The accrued liability rates are higher than those determined on the basis of the previous calculations. The reasons for this increase are that the present membership is on the average older than at the time of the previous calculations, the average period of service is greater and the compensation used as a base for determining the prior service accumulations is higher. Furthermore, the increase in the accrued liability rates has resulted from the recent ruling of the Attorney General that credit for prior service is to be allowed to July 1, 1945 regardless of the members' age at that time. The effect of this interpretation was to increase the system's liability by approximately \$1,136,000. As a result of this increase in liability, the accrued liability contribution for teachers was increased from 5.23 per cent of compensation to 5.33 per cent of compensation. Similarly, the accrued liability contribution for employees was increased from 2.92 per cent of compensation to 3.05 per cent of compensation.

An amendment adopted at the 1947 Session of the South Carolina General Assembly reopened the membership to eligible teachers and employees who had previously waived membership and permitted them to claim credit for prior service. Hence, it may be necessary to adjust the accrued liability rates on the basis of the valuation as of June 30, 1947.

The total contribution required of employers is therefore equal to 3.39 per cent plus 5.33 per cent, or 8.72 per cent of the compensation of teachers; and 1.96 per cent plus 3.05 per cent, or 5.01 per cent of the compensation of employees.

RATES OF PAYMENT TO EMPLOYER ANNUITY ACCUMULATION FUND

The valuation balance sheet gives the basis for determining the percentage rates for fixing the contributions payable by employers to the Employer Annuity Accumulation Fund, in accordance with the provisions of Section 8, Subsection (3) (a), of the act. The following table gives the rates of contribution payable by employers, which are recommended for payment on the basis of the present valuation.

TABLE 4

RATES OF CONTRIBUTION RECOMMENDED FOR PAYMENT BY EMPLOYERS ON THE BASIS OF THE VALUATION AS OF JUNE 30, 1946

RATE OF CONTRIBUTION	TEACHERS	EMPLOYEES
Normal	3.39%	1.96%
Accrued Liability	<u>5.33</u>	3.05
Total	• — - d	: 5.01% :
	<u> </u>	

SERVICE AND MORTALITY EXPERIENCE

Section 6, Subsection (12), of the act provides in part that, in the year 1947 and at least once in each five-year period thereafter, the actuary is to make an actuarial investigation into the mortality, service and compensation experience of the members and beneficiaries of the system. The system has been operating for only one year and, therefore, has not had an opportunity to accumulate sufficient experience to be used as a basis for a statement as to the system's probable future operation. The indication is that, if employers contribute to the support of the system at the rates recommended, the liabilities of the system will be met without difficulty and it will take its place among the sound state wide retirement systems.

BASIS FOR THE VALUATION

The valuation of the retirement system was made on the basis of the mortality and service tables adopted by the Board under date of February 18, 1946. An interest rate of 4 per cent per annum was used.

A detailed record of each member of the system on the valuation date was required as a basis for determining the assets and liabilities of the system. The data provided by these records, which were submitted by

the Retirement Board, were transferred to tabulating machine cards for use in making the necessary tabulations. Summaries of the tabulations of the data submitted are given in the following tables. As previously indicated, the complete data for only 21,567 active members were available, as of the valuation date. The tabulations were based on this number and consequently the following tables show this number. The valuation results, however, were adjusted to allow for the full membership of 26,449.

TABLE 5

THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF MEMBERS WITH PRIOR SERVICE CREDIT BY AGE AS OF JUNE 30, 1946

EMPLOYEES

	T	OTAL	M	en	WOMEN		
AGE	Number	: Earnable : Compensation:	Number	Earnable : Compensation:	Number	Earnable Compensation	
11678901234567890123345678904444444444455555555555555555555555555	2 40 40 554 72 60 2 98 117 132 147 138 158 159 122 222 213 213 213 213 213 213 213 213	\$ 1,356 4,381 20,966 38,634 54,592 63,770 92,245 109,286 139,203 134,529 140,985 178,096 235,876 236,429 309,529 342,757 353,646 276,429 309,529 342,757 353,646 421,757 517,191 421,205 498,806 414,408 477,642 423,969 414,408 477,642 477,642 477,757 390,520 414,408 477,642 477,757 390,503 355,7757 378,503 378,503 378,739 378,503 378,739	2 3549 51 38 41 33 68 87 47 8 126 5 5 2 9 0 0 6 6 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ 1,356 3,301 17,267 33,072 32,902 38,598 30,863 70,863 70,863 70,433 128,999 148,427 151,149 135,666 211,321 198,684 267,284 267,284 252,021 308,337 298,465 328,940 328,940 335,980	1 56 391343546919129659023576913291	\$ 1,080 3,699 4,827 21,520 30,868 53,647 79,102 68,340 76,111 73,663 76,070 86,111 77,695 704,363 97,663 97,663 104,727 101,783 77,695 704,361 102,843 132,726 103,556 89,826 108,424 118,702 124,504 109,170 71,077 77,690 80,791 90,778 73,873 75,297	

TABLE 5

THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF MEMBERS WITH PRICE SERVICE CREDIT BY AGE AS OF JUNE 30, 1946

EMPLOYEES

(Continued)

	: mc	TAL	МЕ	N	WOM	
AGE	Number	: Earnable : Compensation	Number	Earnable : Compensation:		Earnable Compensation
578901234567890123456789812345	158 127 152 133 118 65 75 76 147 158 131 118 65 77 77 47 47 48 28 21 27 10 86 53 54 11 11 11 11 11 11 11 11 11 11 11 11 11	\$ 313,800 254,452 329,843 221,880 252,931 261,918 180,949 139,301 138,426 158,464 151,074 104,669 92,913 62,922 85,567 87,286 57,991 59,365 14,369 10,373 15,870 10,373 15,870 2,400	105 89 117 108 105 108 105 108 108 108 108 108 108 108 108 108 108	\$ 229,869 195,664 259,813 165,832 201,551 205,096 149,558 115,715 117,238 126,331 106,334 97,917 71,734 50,331 77,808 72,112 49,197 53,545 18,939 9,579 18,407 8,537 15,870 9,212 1,247 6,322 2,400 6,000	538013333216509659695334 3 121	\$ 83,931 58,788 70,030 56,048 51,380 51,380 51,188 32,740 6,752 21,179 12,591 7,759 15,174 8,794 5,730 4,782 1,836 4,782 1,836 4,782 1,836
83 84 85 86 87 88	2	3,780) : 1	3,180 1,249	1	600
Total	7,643			\$10,728,387	2,510	\$ 3,844,018

TABLE & TABLE THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF MEMBERS WITH PRIOR SERVICE CREDIT BY AGE AS OF JUNE 30, 1946

TEACHERS

<u></u>	1	OTAL	:	M	EN	: :	WOMEN		
AGE	Number	: F	Carnable	Number		Earnable : npensation:	Number		Carnable opensation
19 20	6	\$	4,936 : 9,371 :	1	: :\$	936 : :	5 12		4,000 9,371 24,169
21 22	30 87	:	25,456 : 84,129 :	1 2	: :	1,287 : 3,375 :	29 85 151	:	80,754 143,265
23 24	: 151 : 255	:	143,265 : 254,032 :	7 10	:	10,332 : 18,870 :	248 235	:	243,700 237,487
25 26	: 245 : 262 : 263	:	256,357 : 277,929 : 287,878 :	16 23	:	23,685 : 30,581 :	246 240	:	254 ,244 257 ,2 97
27 28 29	: 269 : 273	:	302,492 : 315,222 :	25 29 48	:	37,927: 40,413:	244 244 211	:	264,565 274,809 230,839
30 31	: 259 : 247	:	308,761 : 287,596 :	48 40 3 6	:	77,922 : 65,247 : 57,981 :	207 226	:	222,349 250,313
29 33 33 33 35 35 37 38 39	: 262 : 266	:	308,294 : 332,187 : 358,534 :	40 36 54 53 53 62	:	91,651 : 79,661 :	212 241	:	240,536 278,873
54 35 36	294 283 334	. :	364,121 409,635		: :	92,683 : 104,470 :	228 270	:	271,430 305,160 351,530
37 38	349 348	} : } :	451,287 449,981	53	:	99,749 116,238 95,023	296 288 317	:	333 .7 4 379 .3 1
40	: 379 : 368	-	474,339 480,898 487,706	53 47 65 59 46 60	:	101,376 119,785	: 321 : 315		379,52 367,92
41. 42	: 380 : 341 : 26	2 :	451,587 357,227	59 46	:	107,962 96,170	: 283 : 219) :	343,62 261,05
43 44 45	29	ģ :	417,469 285,656		: :	127,956 59,270	: 235 : 184	:	289,51 226,38 294,36
45 46 47	: 29	1 : 3 :	364,676 307,364	· · · · · · · · · · · · · · · · · · ·	:	70,316 67,492 68,023	: 254 : 195 : 234	5 :	239,87 274,90
47 48 49	: 26 : 21	2 :	342,928 257,893 323,864	: 33 : 33	:	49,591	: 179) :) :	208.70
50 51	27	9 : 5 :	293,724	: 39 : 32 : 23 : 27		77,991 54,182 41,654 66,720	: 20 : 15 : 14 : 15 : 16	3 :	245,8 239,5 192,5 186,7
52 53	18	2 :	253,495 240,184	: 33 : 27	:	49,688	: 14	6 :	148.1
54 55 56	23 23 18 18 18	is :	199,766 233,692	28		51,621 39,417	: 16 : 12) · 4 : 2 :	194,2
45555555555555555555555555555555555555	: 14	14 : 19 :	191,677	: 29	}	29,592 49,911 25,015	: 12	1:	194,2 135,8 141,7 108,6
<u>5</u> 9)5 : 30 :	133,646 154,209		<u> </u>	32,143	: 10	8 :	122,0

TABLE 6

THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF MEMBERS WITH PRIOR SERVICE CREDIT BY AGE AS OF JUNE 30, 1946

TEACHERS

(Continued)

•	TOT	AL :	M	EN	WOM	EN
AGE -	Number : Earnable : Compensation:		Number Earnable : Compensation:		Number : Earnable :Compensation	
61 62 63 64 65 66 66 67 77 77 77 77 77 77 77 77 77 77	:	\$ 147,672 116,800 97,794 117,675 81,193 76,729 43,092 61,342 27,783 40,249 25,992 14,598 5,951 14,716 4,510 7,269 14,432 600 1,392	24 24 19 15 22 18 13 13 13 13 13 13 14 11	\$\\ 41,334\\ 33,787\\ 37,592\\ 21,410\\ 27,334\\ 20,424\\ 11,764\\ 27,355\\ 6,790\\ 9,566\\ 9,669\\ 7,507\\ 4,254\\ 3,780\\ 5,330\\ 9,625\\ 600\\	91 70 57 74 45 55 29 28 13 6 21 42 2 1	\$ 106,338 83,013 60,202 96,265 53,859 56,328 33,987 20,993 30,743 16,97 10,936 3,876 1,939 4,807 1,392
70tal	10,342	\$12,783,880	1,558	\$ 2,712,001	8,784	\$10,071,879

TABLE 🤭

EMPLOYEES

	TOTAL				MEN				WOI	MEN	
AGE	Number	: Ea	rnable ensation	Num		: E	arnable pensation	Numbe	r	Ear Compe	rnabl e ensation
1456789012345678901233333333333444444444445555555555555555	1 11 15 40 144 119 114 137 123 127 116 101 108 83 764 44 44 44 44 44 44 44 44 44 44 44 44 4	· · · · · · · · · · · · · · · · · · ·	887 91,933 41,694 11,694 12,126 142,126 142,126 142,126 143,168 143,168 177,446 177,4616 189,168 177,216 177,216 163,298 154,599 119,139 107,214 1		101295773874562869492655555333333332121111111		887 9,4137 910,2744 910		131927450515824155339416118166676616		708 1,520 11,417 66,493 77,477 166,493 77,477 167,477 167,477 167,477 167,401 17,514 1

TABLE of

EMPLOYEES

(Continued)

	TO	TAL	M	en	WO	MEN
AGE	Number	: Earnable : Compensation	Number	Earnable Compensation:	Number	Earnable Compensation
5789012345678901234567890123456888888888888888888888888888888888888	18 17 91 16 8 6 12 5 6 2 3 2 3 2 1 3 3 1 1	\$ 22,735 19,461 10,559 15,565 20,857 11,715 8,769 18,680 6,927 8,562 2,187 5,580 2,487 3,468 2,700 960 3,448 4,140 1,872		\$ 18,675 14,757 10,559 12,925 13,882 11,341 8,769 18,116 5,127 8,562 2,187 5,580 2,487 2,613 1,200 960 3,448 4,140 1,872	54 2 71 12	\$ 4,060 4,704 2,640 6,975 374 564 1,800
84 85	: <u>1</u>	768	1	768		
Total	2,666	: :\$ 3,744,991	1,809	\$ 2,673,025	857	\$ 1,071,966

TABLE 8

TEACHERS

	: TC	YTAL	ME	N	WOMEN	
AGE	Number	Earnable: Compensation:	Number	Earnable Compensation:		Earnable mpensation
17890123456789013333353333901234456789012334567890	2 57 426 33 55 58 9 9 52 4 7 6 9 0 4 1 1 7 0 7 7 7 5 7 3 7 6 9 2 1 4 2 3 3 1 1 4 3	7,571 9,880 1,035	1 6254053323531123234211221 2132 21 11 12	\$ 1,080 7,380 1,990 4,130 5,795 13,795 13,655 1,090 1,365 1,090 1,000	2 57 416 7 416 2 2 2 1 16 7 0 7 16 5 7 7 18 18 6 6 5 3 6 3 5 5 6 1 2 1 3 2 1 3 1 1 2 1 3 2 1 3 1 3 1 3 1	1,350 31,268 29,408 12,108 114,208 1174

TEACHERS

(Continued)

	ייר	TAL :	M	EN	WOMEN		
AGE	Number	: Earnable : Compensation:	Number	: Earnable : Compensation:	Number	: Earnable : Compensation	
61 62	: : :	\$ 1,287	2	: \$ 1,287		:	
63 64 65 66	: : 1	1,350 1,530	1 2	1,350 1,530			
Total	916	\$ 889,625	98	\$ 128,708	818	\$ 760,917	

TABLE 9

THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF MEMBERS WITH PRIOR SERVICE CREDIT BY YEARS OF CREDITABLE SERVICE AS OF JUNE 30, 1946

EMPLOYEES

YEARS OF		TOTAL		ien .	WOMEN		
CREDITABLE SERVICE	Number	Earnable : Compensation:	Number	: Earnable : Compensation:	Number	Earnable Compensation	
1234567890112345678901223456789012333553334567890123444	8764387158 764387158 201491111111119 876438822111111111111 1298718451738 2211111111111111111111111111111111111	\$ 1,128,331 1,128,331 1,016,240 579,490 575,519 575,519 575,678 575,378 529,6792 529,6792 539,3762 539,3762 539,3762 539,3763 539,3763 539,496 539,496 539,496 539,496 539,496 549,676	329 4490 2744 175 173 110 1111 1111 1111 1111 1111 1111 1	\$ 500,957 824,588 735,109 699,493 584,295 542,350 408,807 387,350 408,807 387,844 387,877 299,071 228,982 258,977 228,982 258,977 261,628 302,518 179,464 179,464 163,174 163,174 163,174 163,904 65,860 100,904 65,860 100,904 65,860 100,904 65,860 100,904 54,696 76,33 39,700 104,074 102,074 103,074 103,074 103,074 103,074 104,074 105,860 100,904 54,696 76,33 39,589 30,090 11,709 76,600 11,888 11,709 76,600 11,888 11,709 11,888	270 336 0 1 4 2 0 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	393,222 316,747 263,679 185,140 166,416 213,394 211,049 167,380 2137,867 91,380 137,256 81,37,256 91,380 45,352 44,814 38,482 20,365 11,752 11	

THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF MEMBERS WITH PRICE SERVICE CREDIT BY YEARS OF CREDITABLE SERVICE AS OF JUNE 30, 1946

EMPLOYEES

(Continued)

YEARS OF	то	TAL	М	EN	WOMEN		
SERVICE	Number	: Earnable : Compensation:	Number	: Earnable : Compensation:	Number	: Earnable : Compensation	
46 47 48	7 4	:\$ 20,551 : 16,765 : 9,082 :	6 4	\$ 19,365 : 16,765 : 9,082 :	1	\$ 1,186	
49 50 51 52	3 4 1 7	5,299 : 13,800 : 930 : 11,498 :	1 4 1 7	3,500 : 13,800 : 930 : 11,498 :	2	1,799	
478 490 1 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 2	3,600 : 2,076 : 2,463 :	1 1 2	3,600 : 2,076 : 2,463 :			
58 59 60 61 62 63 64	1 1 1	1,080 : 849 : 600 :	1	849	1	1,080	
64 : 65 :	1	720	1	720	· · · · · · · · · · · · · · · · · · ·		
Total	7,643	\$14,572,405	5,133	\$10,728,387	2,510	\$ 3,844 ,018	

TABLE 10

THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF MEMBERS WITH PRICE SERVICE CREDIT BY YEARS OF CREDITABLE SERVICE AS OF JUNE 30, 1946

TEACHERS

YEARS OF	TOT	AL	MEN		WOME	N
CREDITABLE SERVICE	Number	Earnable : Compensation:	Number : Co	Earnable : ompensation:	Number C	Earnable ompensation
123456789012345678901223456789012335333533339042444444	2999277489599040933533333332332222221111188888755440985145 29992774895990409333333333233222221111188888755440985145 209927748959904093333333333233222222111111888887554409851415	\$ 207,023 207,023 207,023 207,025 2	\$ 1345315792666654665544333333121211416484648383834	27,6590 105,7519 107,7919 107,7919 108,3672 110,891,67	1886821774808883535350426282191184461177777644432211111 8868217748088835353504262821918644611777776444322211111	179,869 179,869 179,869 179,869 179,869 173,873 173,873 173,873 174,873 174,873 174,873 175,873 176

 $_{\rm TABLE} \circlearrowleft 0$

THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF MEMBERS WITH PRIOR SERVICE CREDIT BY YEARS OF CREDITABLE SERVICE AS OF JUNE 30, 1946

TEACHERS

(Continued)

YEARS OF	TO	ral :	М	EN	WOMEN		
SERVICE	Number	Earnable : Compensation:	Number	: Earnable : Compensation:	Number	: Earnable : Compensation	
46 : 47 : 48 : 49 : 50 : 51 : :	13 6 5 1	\$ 16,394 6,618 5,712 6,021 1,195	2 1 3 1	1,376 : 960 : 3,550 :	11 55 53 1	\$ 15,018 5,658 5,712 2,471 1,195 4,470	
52 : 53 : 54 : 55	6	9,024 : : 13,272 :	1	: 4,554 : : 7,200 : :	5	6,072	
49 51 52 54 55 55 57 59 50	1	1,117		: : : : : : : : : : : : : : : : : : :	ı	1,117	
61 62 63 64 65 66	1	275 :		: : : : : : : : : : : : : : : : : : :	1	275	
66 67	1	695			1	695	
Total	10,342	\$12,783,880	1,558	: \$ 2,712,001 :	8,784	:\$10,071,879	

TABLE 1

THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF NEW ENTRANTS

BY YEARS OF CREDITABLE SERVICE AS OF JUNE 30, 1946

EMPLOYEES

YEARS OF	. TO	ral :	М	EN	WOMEN		
CREDITABLE SERVICE	No. ale and	Earnable Compensation:	Number	: Earnable : Compensation:	Number	: Earnable :Compensation	
0	1,476	: \$ 2,149,770 : 1,595,221 :	1,042	\$ 1,594,109 1,078,916	434 423	\$ 555,661 516,305	
Total	***************************************	: \$ 3,744,991	^ -	:\$ 2,673,025	857	\$ 1,071,966	

TABLE (C)

THE DISTRIBUTION OF THE NUMBER AND ANNUAL EARNABLE COMPENSATION OF NEW ENTRANTS

BY YEARS OF CREDITABLE SERVICE AS OF JUNE 30, 1946

TEACHERS

YEARS OF	TOTAL			М	:	WOMEN				
CREDITABLE SERVICE		: I	Carnable :	Number _		Earnable : npensation:			: Earnable :Compensation	
0	·	:\$	363,308: 526,317:		: : \$:	71,932 : 56,776 :	298 520		291,376 469,541	
Total		: \$	889,625	98	: :\$	128,708 :	818	: :\$:	760,917	

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES RECEIVING RETIREMENT ALLOWANCES DISTRIBUTED BY AGE AS OF JUNE 30, 1946

SERVICE RETIREMENTS

	+ +	ME	N		:	WO	MEN	
AGE	Number	Employee Annuities	: Payable : Employer :	Employer Annuity	Number	: : Employee : Annuities :	Payable Employer:	Employer Annuity Reserve
555555666666666666666666666666666666666	1 1 4 2	\$ 7 7	# 1,704 108 2,568 3,948 792 1,056	Optional	Modificat 1	ion : : : : : : : : : : : : : : : : : : :	\$ 324 408 408 636 288 192 156 1,320 456 1,164 3,336 2,676 1,032 1,152 3,504 1,464 144 3,228 1,200	
78 79 80 81	1	2	336 : 1,848 :		1 1		384 288`	
Fotal:	14.	\$ 17	:		: : 46 :	: :\$ 21	\$ 23,916	

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES RECEIVING RETIREMENT ALLOWANCES DISTRIBUTED BY AGE AS OF JUNE 30, 1946

SERVICE RETIREMENTS

				(Continue	<u>ed)</u>				
:		М	en		WOMEN				
AGE	Number	Employee Annuities	Employer Payable Employer Annuity Accumula- tion Fund	Annuity Reserve	Number	Employee Annuities	Employer Payable Employer Annuity Accumula- tion Fund	Employer Annuity Reserve	
			:	Option	2	:	•		
57 : 80 :	1 1	· · · · · · · · · · · · · · · · · · ·	\$ 168 48			* * * * * * * * * * * * * * * * * * *	•		
Total:	2		\$ 216			:			
				Option	3	:	•		
68 78	1 1	\$ 13_	\$ 456 1,8%	·		· ·			
Total	2	: :\$ 13	: \$ 2,352	: :		: :			
CRAND TOTAL		\$ 30	\$ 14 , 928		46	\$ 21.	: :\$ 23,916 :		