

SCOUTH CAROLINA RETIREMENT SYSTEM  
REPORT OF THE ACTUARY ON THE SIXTEENTH ANNUAL VALUATION

Prepared as of  
June 30, 1961

**SOUTH CAROLINA RETIREMENT SYSTEM**

**REPORT OF THE ACTUARY ON THE SIXTEENTH ANNUAL VALUATION**

September 19, 1962.

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September 19, 1962.

**State Budget and Control Board,  
South Carolina Retirement System,  
Columbia, South Carolina.**

Gentlemen:

I transmit herewith my report on the sixteenth actuarial valuation of the South Carolina Retirement System, prepared as of June 30, 1961.

The valuation indicates that the total contribution rate payable on account of teachers may be continued at 6.17 per cent of earnable compensation and on account of employees at 3.98 per cent of earnable compensation.

I trust that the report is in satisfactory form for use by the Board.

Respectfully submitted,

(Signed) **GEORGE B. BUCK**

Actuary.

REPORT OF THE ACTUARY ON THE SIXTEENTH ANNUAL VALUATION OF THE  
SOUTH CAROLINA RETIREMENT SYSTEM

The South Carolina Retirement System was established as of July 1, 1945. The system is supported by the joint contributions of members and employers. The contributions to be made by employers are to be set from time to time on the basis of periodic actuarial valuations.

This report presents the results of an actuarial valuation of the contingent assets and liabilities of the system as of June 30, 1961, and gives the percentage rates of contribution payable by employers as determined on the basis of the valuation. Appended to the report are tables showing the distribution of the members classified by age and by years of service, and of retired members and beneficiaries classified by age.

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. Under the act, "out-of-State service" means continuous service rendered by a member of the system for any state other than the State of South Carolina, excluding any such service rendered after he first became eligible for membership in the system or which terminated more than six months prior to the inception of his service within the State of South Carolina. Out-of-State service is not considered creditable service, nor is it taken into account in determining the eligibility for any benefit under the system.

BENEFITS

Service Retirement Benefit

Condition for Allowance

A retirement allowance is payable upon the request of any teacher or employee who has attained age 60 or has rendered 35 or more years of creditable service.

An employee must retire at age 70 except that with the approval of both his employer and the Board, an employee may remain in service to age 72, or for such period of time as may be necessary for such employee to qualify for coverage under the old age and survivors insurance provision of Title II of the Federal Social Security Act, as amended.

A teacher must retire at age 65 or upon the completion of the school year in which he attains age 65, except that with the approval of his employer, a teacher may remain in service to age 72.

Amount of Allowance

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

(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; and

\*In determining the contributions which would have been made during prior service, the 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.

(d) If the member has credit for out-of-State service rendered prior to July 1, 1945, an additional employer annuity allowable at age 65, or at age of retirement, whichever is less, equal to the excess of

(i) an employer annuity computed on the basis of the part of his out-of-State service and his creditable service rendered prior to July 1, 1945 over

(ii) an employer annuity computed on the basis of his creditable service rendered prior to July 1, 1945.

If the member's creditable service does not, at his retirement, exceed twice his out-of-State service, the employer annuity based on his out-of-State service under (b) and (d) above shall be reduced in the proportion which his creditable service bears to his out-of-State service.

#### Disability Retirement Benefit

##### Condition for Allowance

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

##### Amount of Allowance

Upon disability retirement, a member who has attained age 60 or has 35 years of creditable service, 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 he continued in service to such date without further change in compensation, and had his contributions been at the rate of 4 per cent of such compensation from the date of disability to such date; and

(c) For members in positions covered by Social Security, an additional employer annuity of \$6.00 per annum for each full year of membership service after July 1, 1955 payable only to age 65 and not subject to optional modification as defined below.

Deferred Retirement Benefit

Condition for Allowance

A deferred retirement allowance, commencing at age 60, is payable to any member who ceases to be a teacher or an employee after he has rendered at least 20 years of creditable service, provided he leaves his contributions in the system.

Amount of Allowance

The deferred retirement allowance is computed like a service retirement allowance, except that the employee annuity is the actuarial equivalent at age 60 of the member's contributions with such interest credits as are allowed.

Return of Contributions  
and Death Benefit

Upon the withdrawal of a member without a retirement benefit, he is paid his total contributions without interest.

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

Upon the death of a member before retirement who had 35 years of creditable service or attained age 65, the person nominated to receive the amount of the member's accumulated contributions may elect to receive, in lieu of such accumulated contributions, an allowance for life in an amount as if the member had retired on the date of his death under Option 2 as described below.

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 retired member's life, with the provision that at his death the excess, if any, of his accumulated contributions at retirement over the total of the employee annuity payments he has received shall be paid to a designated person.

Option 2. A reduced retirement allowance payable during the retired member's life, with the provision that after his death the reduced retirement allowance is to be continued to a designated beneficiary.

Option 3. A reduced retirement allowance payable during the retired member's life, with the provision that after his death one-half the reduced retirement allowance is to be continued to a designated beneficiary.

Option 4. A retirement allowance in such amount that, together with his Social Security benefit, he will receive approximately the same income per annum before and after age 65.

#### CONTRIBUTIONS

##### By Members

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

After July 1, 1955, members in positions covered by Social Security, contribute at the rate of 3% of earnings compensation not in excess of the amount taxable under the Federal Insurance Contributions Act (at present \$4,000 per annum) plus 5% of earnings compensation not so taxable.

##### By Employers

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 such rate shall be increased on the basis of subsequent valuations if benefits are increased. Such rate may be decreased if the actuary engaged by the Board certifies that such reduction will not impair the system. Each year's accrued liability payment is to be at least 3% greater than the preceding annual accrued liability payment subject to the preceding sentence. On and after July 1, 1946, all employers' contributions for teachers are paid by the State.

MEMBERSHIP OF THE SYSTEM

The following table shows the number and annual earnable compensation of active members, as of June 30, 1961, on the basis of which the valuation was prepared.

TABLE I

THE NUMBER AND EARNABLE COMPENSATION OF ACTIVE MEMBERS  
AS OF JUNE 30, 1961.

| GROUP      | TOTAL  |                       | TEACHERS |                       | EMPLOYEES |                       |
|------------|--------|-----------------------|----------|-----------------------|-----------|-----------------------|
|            | Number | Earnable Compensation | Number   | Earnable Compensation | Number    | Earnable Compensation |
|            | :      | :                     | :        | :                     | :         | :                     |
| Men.....   | 38,342 | \$114,846,180         | 9,089    | \$ 30,461,443         | 29,253    | \$ 84,384,745         |
| Women..... | 40,893 | 109,541,274           | 21,982   | 72,183,693            | 15,916    | 37,358,571            |
| Total..... | 79,240 | \$224,387,762         | 34,071   | \$102,644,446         | 45,169    | \$121,743,316         |

The following table shows the number and annual amount of retirement allowances payable to retired members and to beneficiaries of deceased retired members as of June 30, 1961.

TABLE II

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF  
RETIRIED MEMBERS AND BENEFICIARIES ON THE ROLL AS OF JUNE 30, 1961

| GROUP                                                                    | NUMBER | TOTAL<br>ANNUAL<br>RETIREMENT ALLOWANCE |
|--------------------------------------------------------------------------|--------|-----------------------------------------|
| <u>Service Retirements</u>                                               |        |                                         |
|                                                                          |        |                                         |
| Teachers:                                                                |        |                                         |
| Men.....                                                                 | 383    | \$ 236,172                              |
| Women.....                                                               | 1,696  | 914,052                                 |
| Employees:                                                               |        |                                         |
| Men.....                                                                 | 885    | \$ 753,924                              |
| Women.....                                                               | 528    | 284,736                                 |
| Total.....                                                               | 3,694  | \$ 2,188,834                            |
| <u>Disability Retirements</u>                                            |        |                                         |
|                                                                          |        |                                         |
| Teachers:                                                                |        |                                         |
| Men.....                                                                 | 27     | \$ 13,344                               |
| Women.....                                                               | 146    | 48,160                                  |
| Employees:                                                               |        |                                         |
| Men.....                                                                 | 97     | \$ 55,764                               |
| Women.....                                                               | 32     | 34,700                                  |
| Total.....                                                               | 309    | \$ 131,976                              |
| <u>Beneficiaries of Deceased Retired Members<br/>and Active Members:</u> |        |                                         |
|                                                                          |        |                                         |
| Men.....                                                                 | 51     | \$ 11,928                               |
| Women.....                                                               | 262    | 157,480                                 |
| Total.....                                                               | 293    | \$ 169,416                              |
| Grand Total.....                                                         | 4,296  | \$ 2,490,276                            |

In addition, an amount of \$2,148 per annum is currently payable for temporary disability employer annuities.

VALUATION OF ASSETS AND LIABILITIES

The following valuation balance sheet shows the assets and liabilities of the system as of June 30, 1961. The amounts of the present assets shown on the balance sheet were taken from financial information submitted by the Director of the system.

which is equal to the data of TABLE III.

**VALUATION BALANCE SHEET SHOWING THE ASSETS AND LIABILITIES OF THE SOUTH CAROLINA RETIREMENT SYSTEM  
AS OF JUNE 30, 1961**

| <b>ASSETS</b>                                                                                                                                                            |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Employee Annuity Savings Fund.....                                                                                                                                       | \$ 49,279,343      |
| Employer Annuity Accumulation Fund.....                                                                                                                                  | <u>92,922,117</u>  |
| Total Present Assets.....                                                                                                                                                | \$ 142,187,460     |
| <b>LIABILITIES</b>                                                                                                                                                       |                    |
| Normal contributions.....                                                                                                                                                | \$ 65,781,446      |
| Accrued liability contributions.....                                                                                                                                     | <u>26,162,221</u>  |
| Total Prospective Contributions by Employers.....                                                                                                                        | <u>91,943,673</u>  |
| Total Assets.....                                                                                                                                                        | \$ 234,131,133     |
| <b>LIABILITIES</b>                                                                                                                                                       |                    |
| Potential value of benefits on account of which contributions have been accumulated to date in the Employee Annuity Savings Fund.....                                    | \$ 49,279,343      |
| Potential value of benefits payable on account of contributions by members or their beneficiaries now drawing annuities from the Employer Annuity Accumulation Fund..... | <u>20,922,348</u>  |
| Potential value of benefits to active members to be in balance at June 30, 1961, contributions of the employers into the Employer Annuity Accumulation Fund.....         | <u>163,922,442</u> |
| Total Liabilities.....                                                                                                                                                   | \$ 234,131,133     |

#### RESULTS OF VALUATION

The valuation balance sheet gives the following information with respect to the funds of the system.

##### 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. When a member retires, the amount of his accumulated contributions is transferred from the Employee Annuity Savings Fund to the Employer Annuity Accumulation Fund and his annuity is paid from the latter fund. The assets credited to the Employee Annuity Savings Fund on June 30, 1961, which represent the accumulated contributions of members to that date, amounted to \$49,279,343. The liabilities of this fund are also shown as \$49,279,343, because the employee annuities which members' contributions will provide will be equal in value to their contributions with interest. Future contributions into this fund and benefits payable from such contributions are considered to be of equivalent value and hence are not shown in the balance sheet.

##### Employer Annuity Accumulation Fund

The Employer Annuity Accumulation Fund is the fund to which the contributions made by employers are credited and from which are paid all benefits on account of retired members and their beneficiaries.

The present assets creditable to the Employer Annuity Accumulation Fund on June 30, 1961, amounted to \$92,908,117. The liabilities on account of active members amounted to \$163,929,442. In addition, the balance sheet indicates liabilities of \$20,922,348 on account of all benefits payable to retired members or their beneficiaries from the Employer Annuity Accumulation Fund. The total liabilities, therefore, amounted to \$184,851,790. The difference between these liabilities and the present assets credited to this fund is \$91,943,673, which represents the present value of future contributions to be made by the employers. Of this amount \$65,781,446 represents the present value of prospective normal contributions by the employers and the balance of \$26,162,227 represents the present value of prospective accrued liability contributions.

The retirement act provides that the contributions of employers shall consist of a normal contribution to cover the liability on account of service currently rendered and an accrued liability contribution on account of liabilities assumed, due to service rendered prior to the establishment of the system.

The valuation indicates that, in the case of teachers, the normal contribution rate may be continued at 3.54 per cent of earnable compensation. The valuation also indicates that, in the case of employees, the normal contribution rate may be continued at 2.05 per cent of earnable compensation.

The valuation further indicates that the accrued liability contribution rates determined on the basis of the valuation may be continued at 2.63 per cent of earnable compensation in the case of teachers, and at 1.93 per cent of earnable compensation in the case of employees.

The total employer contribution rate for teachers may therefore be continued at 6.17 per cent of earnable compensation. The corresponding rate for employees may be continued at 3.98 per cent of earnable compensation.

#### RATES OF PAYMENT TO EMPLOYER ANNUITY ACCUMULATION FUND

The valuation balance sheet gives the basis for determining the percentage rates for fixing the contributions to be made by employers to the Employer Annuity Accumulation Fund under the provisions of the retirement act. The following table gives the rates of contribution payable by employers, as determined on the basis of the present valuation.

TABLE IV

#### RATES OF CONTRIBUTION RECOMMENDED FOR PAYMENT BY EMPLOYERS ON THE BASIS OF THE VALUATION AS OF JUNE 30, 1961

| <u>RATES OF CONTRIBUTION</u> | <u>: TEACHERS</u> | <u>: EMPLOYERS</u> |
|------------------------------|-------------------|--------------------|
| Normal.....                  | 3.54%             | 2.05%              |
| Accrued Liability.....       | 2.63              | 1.93               |
| Total.....                   | 6.17%             | 3.98%              |

#### BASIS FOR 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 16, 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 contingent assets and liabilities of the system. The data provided by these records, which were furnished to the actuary by the Director, 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.

TABLE 1  
THE NUMBER AND PAYABLE COMPENSATION  
OF MEMBERS DISTRIBUTED BY AGE  
AS OF JUNE 30, 1961

| AGE | MEN    |          | WOMEN  |          |
|-----|--------|----------|--------|----------|
|     | Number | Amount   | Number | Amount   |
| 16  | 32     | 143008   | 6      | 11399    |
| 17  | 75     | 115486   | 22     | 57137    |
| 18  | 241    | 304900   | 113    | 198056   |
| 19  | 359    | 923052   | 385    | 716516   |
| 20  | 608    | 1186203  | 332    | 939068   |
| 21  | 773    | 1308946  | 646    | 1197064  |
| 22  | 867    | 1495216  | 808    | 1773784  |
| 23  | 794    | 17028305 | 4234   | 2990984  |
| 24  | 989    | 1921206  | 4245   | 2908789  |
| 25  | 975    | 2476642  | 4142   | 2783915  |
| 26  | 1087   | 2476641  | 4160   | 2446484  |
| 27  | 1201   | 2743778  | 4086   | 2370132  |
| 28  | 1231   | 2919591  | 4168   | 2575654  |
| 29  | 1246   | 3188063  | 4152   | 2450954  |
| 30  | 1054   | 2803783  | 4072   | 2741010  |
| 31  | 1086   | 3061848  | 4139   | 2624214  |
| 32  | 983    | 3080661  | 4120   | 2616933  |
| 33  | 974    | 2829747  | 4098   | 2674276  |
| 34  | 915    | 2888334  | 4097   | 2414879  |
| 35  | 862    | 2659483  | 4024   | 2545473  |
| 36  | 815    | 2128001  | 938    | 2380787  |
| 37  | 745    | 2942190  | 977    | 2641671  |
| 38  | 734    | 3137234  | 947    | 2538473  |
| 39  | 715    | 3276115  | 948    | 2590984  |
| 40  | 628    | 2656848  | 952    | 2634617  |
| 41  | 628    | 2243832  | 938    | 2574895  |
| 42  | 609    | 3009026  | 926    | 2590953  |
| 43  | 574    | 2574665  | 945    | 2608259  |
| 44  | 605    | 2860516  | 895    | 2634638  |
| 45  | 600    | 2759383  | 880    | 25869167 |
| 46  | 786    | 2638087  | 884    | 2658163  |
| 47  | 829    | 2785783  | 852    | 2549847  |
| 48  | 787    | 2804427  | 936    | 2803428  |
| 49  | 819    | 2758286  | 836    | 2640916  |
| 50  | 779    | 2856482  | 836    | 2886665  |
| 51  | 736    | 2849131  | 838    | 3068993  |
| 52  | 731    | 2845066  | 916    | 2986893  |
| 53  | 728    | 2874913  | 828    | 2668776  |
| 54  | 684    | 2517704  | 761    | 2438967  |
| 55  | 650    |          |        |          |

TABLE 1

**THE NUMBER AND EARNABLE COMPENSATION  
OF MEMBERS DISTRIBUTED BY AGE  
AS OF JUNE 30, 1961**

(Continued)

| AGE   | MEN    |            | WOMEN  |           |
|-------|--------|------------|--------|-----------|
|       | Number | Amount     | Number | Amount    |
| 56    | 635    | 2275445    | 761    | 3447565   |
| 57    | 596    | 2243639    | 697    | 3326943   |
| 58    | 510    | 1866747    | 595    | 1939190   |
| 59    | 516    | 1919347    | 549    | 1808263   |
| 60    | 395    | 1506316    | 432    | 1362911   |
| 61    | 312    | 1711304    | 427    | 1712677   |
| 62    | 308    | 1086315    | 380    | 1112669   |
| 63    | 307    | 1235696    | 363    | 1176423   |
| 64    | 295    | 1064796    | 358    | 1165657   |
| 65    | 272    | 1024689    | 343    | 1112877   |
| 66    | 272    | 936929     | 326    | 1112877   |
| 67    | 272    | 836929     | 312    | 1112877   |
| 68    | 272    | 736929     | 307    | 1112877   |
| 69    | 272    | 636929     | 303    | 1112877   |
| 70    | 272    | 536929     | 297    | 1112877   |
| 71    | 272    | 436929     | 291    | 1112877   |
| 72    | 272    | 336929     | 287    | 1112877   |
| 73    | 272    | 236929     | 282    | 1112877   |
| 74    | 272    | 136929     | 277    | 1112877   |
| 75    | 272    | 136929     | 272    | 1112877   |
| 76    | 272    | 136929     | 267    | 1112877   |
| 77    | 272    | 136929     | 262    | 1112877   |
| 78    | 272    | 136929     | 257    | 1112877   |
| 79    | 272    | 136929     | 252    | 1112877   |
| 80    | 272    | 136929     | 247    | 1112877   |
| 81    | 272    | 136929     | 242    | 1112877   |
| 82    | 272    | 136929     | 237    | 1112877   |
| 83    | 272    | 136929     | 232    | 1112877   |
| 84    | 272    | 136929     | 227    | 1112877   |
| 85    | 272    | 136929     | 222    | 1112877   |
| 86    | 272    | 136929     | 217    | 1112877   |
| 87    | 272    | 136929     | 212    | 1112877   |
| 88    | 272    | 136929     | 207    | 1112877   |
| 89    | 272    | 136929     | 202    | 1112877   |
| 90    | 272    | 136929     | 197    | 1112877   |
| 91    | 272    | 136929     | 192    | 1112877   |
| 92    | 272    | 136929     | 187    | 1112877   |
| 93    | 272    | 136929     | 182    | 1112877   |
| 94    | 272    | 136929     | 177    | 1112877   |
| 95    | 272    | 136929     | 172    | 1112877   |
| 96    | 272    | 136929     | 167    | 1112877   |
| 97    | 272    | 136929     | 162    | 1112877   |
| 98    | 272    | 136929     | 157    | 1112877   |
| 99    | 272    | 136929     | 152    | 1112877   |
| Total | 36348  | 1369296166 | 30889  | 109531374 |

|           |       |          |       |          |
|-----------|-------|----------|-------|----------|
| Summary:  | 9484  | 30461443 | 24982 | 72183063 |
| Teachers  | 49253 | 24384785 | 18946 | 37358591 |
| Employees |       |          |       |          |

TABLE 2

THE NUMBER AND PAYABLE COMPENSATION  
OF MEMBERS DISTRIBUTED BY  
YEARS OF SERVICE AS OF JUNE 30, 1961

| YEARS<br>OF<br>SERVICE | MEN    |          | WOMEN  |          |
|------------------------|--------|----------|--------|----------|
|                        | Number | Amount   | Number | Amount   |
| 0                      | 8163   | 43048050 | 4634   | 3279144  |
| 1                      | 4514   | 10961218 | 4718   | 19630681 |
| 2                      | 3389   | 6961178  | 3840   | 1634874  |
| 3                      | 2637   | 7042048  | 3029   | 6860189  |
| 4                      | 2989   | 7612728  | 3108   | 6796979  |
| 5                      | 2746   | 7174950  | 2614   | 6335491  |
| 6                      | 2671   | 7147000  | 3147   | 7084062  |
| 7                      | 1767   | 51548883 | 1763   | 4545424  |
| 8                      | 8017   | 58126488 | 1620   | 4337004  |
| 9                      | 8120   | 33084488 | 1438   | 3878038  |
| 10                     | 8551   | 64468941 | 1492   | 4006308  |
| 11                     | 1788   | 48264558 | 1323   | 3564841  |
| 12                     | 1943   | 63183586 | 1406   | 3697412  |
| 13                     | 646    | 2548280  | 528    | 1963904  |
| 14                     | 834    | 2581706  | 570    | 1642972  |
| 15                     | 351    | 1948429  | 443    | 1476974  |
| 16                     | 224    | 9146116  | 310    | 1224914  |
| 17                     | 162    | 8103564  | 336    | 1165288  |
| 18                     | 160    | 7448299  | 431    | 1548098  |
| 19                     | 184    | 4024160  | 627    | 1608303  |
| 20                     | 808    | 12050832 | 356    | 1503284  |
| 21                     | 200    | 12608821 | 346    | 1462448  |
| 22                     | 161    | 9796442  | 586    | 1686600  |
| 23                     | 176    | 11648853 | 405    | 3567222  |
| 24                     | 193    | 12802141 | 397    | 1451176  |
| 25                     | 165    | 10201385 | 368    | 13227600 |
| 26                     | 169    | 1169706  | 350    | 13489511 |
| 27                     | 140    | 8104666  | 302    | 1295333  |
| 28                     | 125    | 6126869  | 330    | 1255321  |
| 29                     | 103    | 8473400  | 311    | 1250233  |
| 30                     | 136    | 8603616  | 319    | 1205644  |
| 31                     | 138    | 9204877  | 318    | 1004417  |
| 32                     | 133    | 867756   | 270    | 1000759  |
| 33                     | 131    | 7344441  | 270    | 977555   |
| 34                     | 101    | 627376   | 240    | 867027   |
| 35                     | 108    | 676180   | 234    |          |

TABLE 2

**THE NUMBER AND MARKABLE COMPENSATION  
OF MEMBERS DISTRIBUTED BY  
YEARS OF SERVICE AS OF JUNE 30, 1961**

(Continued)

| YEARS<br>OF<br>SERVICE | MEN    |            | WOMEN  |           |
|------------------------|--------|------------|--------|-----------|
|                        | Number | Amount     | Number | Amount    |
| 36                     | 87     | 871748     | 198    | 603944    |
| 37                     | 64     | 689219     | 173    | 654463    |
| 38                     | 51     | 389106     | 167    | 563104    |
| 39                     | 56     | 341369     | 118    | 464366    |
| 40                     | 34     | 294653     | 117    | 463673    |
| 41                     | 39     | 224532     | 83     | 348371    |
| 42                     | 30     | 211349     | 69     | 279297    |
| 43                     | 12     | 116091     | 66     | 265963    |
| 44                     | 9      | 160777     | 39     | 195672    |
| 45                     | 10     | 100123     | 27     | 94991     |
| 46                     | 6      | 27648      | 20     | 73723     |
| 47                     | 11     | 28289      | 15     | 59159     |
| 48                     | 11     | 20947      | 13     | 84611     |
| 49                     | 8      | 27266      | 12     | 46633     |
| 50                     | 1      | 5691       | 1      | 22727     |
| 51                     | 3      | 43742      | 1      | 8609      |
| 52                     | 0      | 12045      | 1      | 9794      |
| 54                     | 1      | 6388       | 1      | 4646      |
| Total                  | 34342  | 3114946112 | 404426 | 189541474 |

**Summary:**

**Teachers**

9062 150461443 24782 379163003

**Employees**

39253 184384746 16916 237358572

TABLE 3

THE DISTRIBUTION OF THE NUMBER AND MONETARY  
RETIREEMENT ALLOWANCES OF RETIRED MEMBERS  
AND DEFICIARIES BY AGE AS OF JUNE 30, 1961  
SERVICE ATTRIBUTED AND DEFICIENCIES

| AGE | NUMBER |        | MONETARY |        |
|-----|--------|--------|----------|--------|
|     | MEMBER | AMOUNT | MEMBER   | AMOUNT |
| 16  |        |        |          |        |
| 17  |        |        |          |        |
| 18  |        |        |          |        |
| 19  |        |        |          |        |
| 20  |        |        |          |        |
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| 403 |        |        |          |        |
| 404 |        |        |          |        |
| 405 |        |        |          |        |
| 406 |        |        |          |        |

TABLE 3

THE ESTIMATION OF THE NUMBER AND PROBABILITY  
REACHMENT ALIVE AND OF THE NUMBER AND PROBABILITY  
AND BENEFICIATION BY AGE AND OF JUNE 20, 1946  
SERVICE ACTUARIAL TABLE AND SURVIVAL RATE

CONTINUATION

ESTIMATE

ACTUARIAL

| AGE        | ESTIMATE | ACTUARIAL | ESTIMATE | ACTUARIAL |
|------------|----------|-----------|----------|-----------|
| 76         | 49.95    | 50.00     | 98.43    | 98.42     |
| 77         | 45.62    | 45.63     | 92.35    | 92.36     |
| 78         | 38.33    | 38.33     | 86.62    | 86.62     |
| 79         | 34.92    | 34.92     | 80.66    | 80.66     |
| 80         | 32.55    | 32.55     | 74.92    | 74.92     |
| 81         | 30.12    | 30.12     | 69.32    | 69.32     |
| 82         | 27.65    | 27.65     | 64.74    | 64.74     |
| 83         | 25.15    | 25.15     | 60.12    | 60.12     |
| 84         | 22.62    | 22.62     | 55.43    | 55.43     |
| 85         | 20.07    | 20.07     | 50.66    | 50.66     |
| 86         | 17.49    | 17.49     | 45.82    | 45.82     |
| 87         | 14.88    | 14.88     | 41.92    | 41.92     |
| 88         | 12.24    | 12.24     | 38.02    | 38.02     |
| 89         | 9.58     | 9.58      | 34.08    | 34.08     |
| 90         | 6.89     | 6.89      | 29.98    | 29.98     |
| 91         | 4.19     | 4.19      | 26.82    | 26.82     |
| 92         | 1.47     | 1.47      | 23.60    | 23.60     |
| 93         | 0.71     | 0.71      | 20.32    | 20.32     |
| 94         | 0.34     | 0.34      | 17.97    | 17.97     |
| 95         | 0.16     | 0.16      | 15.56    | 15.56     |
| 96         | 0.07     | 0.07      | 13.12    | 13.12     |
| 97         | 0.03     | 0.03      | 10.64    | 10.64     |
| 98         | 0.01     | 0.01      | 8.14     | 8.14      |
| 99         | 0.00     | 0.00      | 5.64     | 5.64      |
| 100        | 0.00     | 0.00      | 3.14     | 3.14      |
| TOTAL      | 129.99   | 130.00    | 636.02   | 636.02    |
| SUMMARY    |          |           |          |           |
| NO. OPTION | 324      | 324       | 2169     | 2169      |
| OPTION 1   | 348      | 348       | 167      | 167       |
| OPTION 2   | 190      | 190       | 87       | 87        |
| OPTION 3   | 143      | 143       | 43       | 43        |
| BENEFIT    | 32       | 32        | 132.04   | 132.04    |
| CARRIER    |          |           |          |           |

TABLE 4

THE DISTRIBUTION OF THE NUMBER AND MONTHLY  
REFINEMENT ALLOCANCES OF RETIRED MEMBERS BY  
AGE AS OF JUNE 30 1961

DISABILITY RETIREMENTS

MEN 1,204 WOMEN 1,066

| AGE   | NUMBER | AMOUNT | NUMBER | AMOUNT |
|-------|--------|--------|--------|--------|
| 36    | 1      | 44     | 1      | 44     |
| 37    | 1      | 44     | 1      | 44     |
| 38    | 1      | 44     | 1      | 44     |
| 39    | 1      | 44     | 1      | 44     |
| 40    | 1      | 44     | 1      | 44     |
| 41    | 1      | 44     | 1      | 44     |
| 42    | 1      | 44     | 1      | 44     |
| 43    | 1      | 44     | 1      | 44     |
| 44    | 1      | 44     | 1      | 44     |
| 45    | 1      | 44     | 1      | 44     |
| 46    | 1      | 44     | 1      | 44     |
| 47    | 1      | 44     | 1      | 44     |
| 48    | 1      | 44     | 1      | 44     |
| 49    | 1      | 44     | 1      | 44     |
| 50    | 1      | 44     | 1      | 44     |
| 51    | 1      | 44     | 1      | 44     |
| 52    | 1      | 44     | 1      | 44     |
| 53    | 1      | 44     | 1      | 44     |
| 54    | 1      | 44     | 1      | 44     |
| 55    | 1      | 44     | 1      | 44     |
| 56    | 1      | 44     | 1      | 44     |
| 57    | 1      | 44     | 1      | 44     |
| 58    | 1      | 44     | 1      | 44     |
| 59    | 1      | 44     | 1      | 44     |
| 60    | 1      | 44     | 1      | 44     |
| 61    | 1      | 44     | 1      | 44     |
| 62    | 1      | 44     | 1      | 44     |
| 63    | 1      | 44     | 1      | 44     |
| 64    | 1      | 44     | 1      | 44     |
| 65    | 1      | 44     | 1      | 44     |
| 66    | 1      | 44     | 1      | 44     |
| 67    | 1      | 44     | 1      | 44     |
| 68    | 1      | 44     | 1      | 44     |
| 69    | 1      | 44     | 1      | 44     |
| 70    | 1      | 44     | 1      | 44     |
| 71    | 1      | 44     | 1      | 44     |
| 72    | 1      | 44     | 1      | 44     |
| 73    | 1      | 44     | 1      | 44     |
| 74    | 1      | 44     | 1      | 44     |
| 75    | 1      | 44     | 1      | 44     |
| 76    | 1      | 44     | 1      | 44     |
| 77    | 1      | 44     | 1      | 44     |
| 78    | 1      | 44     | 1      | 44     |
| 79    | 1      | 44     | 1      | 44     |
| 80    | 1      | 44     | 1      | 44     |
| 81    | 1      | 44     | 1      | 44     |
| 82    | 1      | 44     | 1      | 44     |
| 83    | 1      | 44     | 1      | 44     |
| 84    | 1      | 44     | 1      | 44     |
| 85    | 1      | 44     | 1      | 44     |
| 86    | 1      | 44     | 1      | 44     |
| 87    | 1      | 44     | 1      | 44     |
| 88    | 1      | 44     | 1      | 44     |
| 89    | 1      | 44     | 1      | 44     |
| 90    | 1      | 44     | 1      | 44     |
| 91    | 1      | 44     | 1      | 44     |
| 92    | 1      | 44     | 1      | 44     |
| 93    | 1      | 44     | 1      | 44     |
| 94    | 1      | 44     | 1      | 44     |
| 95    | 1      | 44     | 1      | 44     |
| 96    | 1      | 44     | 1      | 44     |
| 97    | 1      | 44     | 1      | 44     |
| 98    | 1      | 44     | 1      | 44     |
| 99    | 1      | 44     | 1      | 44     |
| 100   | 1      | 44     | 1      | 44     |
| TOTAL | 1,204  | \$789  | 1,066  | \$839  |

TABLE 4

THE DISTRIBUTION OF THE BORDER AND MONTANA  
RETIREMENT ALLOWANCES OF RETIRED MEMBERS BY  
AGE AS OF JUNE 30 1961

## DISABILITY RETIREMENTS

CONTINUED

| AGE            | NEW    |        | OLD    |        |
|----------------|--------|--------|--------|--------|
|                | NUMBER | AMOUNT | NUMBER | AMOUNT |
| <b>SUMMARY</b> |        |        |        |        |
| NO. OPTION     | 63     | 4085   | 162    | 4654   |
| OPTION 1       | 24     | 1043   | 16     | 490    |
| OPTION 2       | 80     | 395    | 4      | 68     |
| OPTION 3       | 7      | 897    | 1      | 36     |

IN ADDITION AN AMOUNT OF \$70 DOLLARS PER  
MONTH IS CURRENTLY PAYABLE FOR TEMPORARY  
DISABILITY PAYMENTS.