# 1927. NEW ZEALAND.

# TEACHERS' SUPERANNUATION FUND.

ACTUARIAL EXAMINATION FOR THE PERIOD COMMENCING 1st JANUARY, 1920, AND ENDING 31st JANUARY, 1924.

Laid before Parliament in pursuance of Section 38 (4) of the Public Service Classification and Superannuation Amendment Act, 1908.

## REPORT.

BY THE ACTUARY APPOINTED BY HIS EXCELLENCY THE GOVERNOR-GENERAL TO MAKE THE ACTUARIAL EXAMINATION OF THE TEACHERS' SUPERANNUATION FUND FOR THE ABOVE-STATED PERIOD ENDING 31st JANUARY, 1924.

Wellington, 6th October, 1927.

- 1. I have the honour to submit the following report on the Teachers' Superannuation Fund as at the 31st January, 1924, required by section 38 of the Public Service Classification and Superannuation Amendment Act, 1908, as amended by section 54 of the Finance Act, 1922.
- 2. The fund was originally constituted under the Teachers' Superannuation Act, 1905, but has subsequently been varied by the Public Service Classification and Superannuation Amendment Acts, 1908 and 1912.
- 3. All persons automatically become contributors to the fund who are first permanently employed after the passing of the Act—
  - (a) In the Education service as a teacher in any public school:
  - (b) In any branch of the Education service which is also a branch of the Government service:
  - (c) Under the University of New Zealand, Auckland University College, Victoria College, University of Otago, Canterbury College, or the Canterbury Agricultural College.

Other persons first permanently employed in the Education service, not included above, have the option of joining the fund within six months of the date of their appointment.

- "Education service" means service in any capacity for not less than twenty hours a week-
  - (a) Under an Education Board; or
  - (b) Under the governing body of a secondary school; or
  - (c) Under the Managers of associated classes under Part VII of the Education Act, 1908; or (d) Under the Education Department in the case of Inspectors of Schools, or of Inspectors,
  - Managers, or visiting officers of industrial schools, or of teachers of any schools under that Department; or
  - (e) Under the University of New Zealand, or under the Auckland University College, Victoria College, University of Otago, Canterbury College, or the Canterbury Agricultural College.

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- 4. The contributions and benefits provided by the Act, together with statements showing the progress of active membership, discontinuance of membership from various causes, the progress of pensions for each year, and the pensions granted since the previous valuation date, with the ages at which they were granted, will be found in Tables I to IV of the appendix to this report. The ages of the contributors at the date of the valuation, their contributions, and other particulars are shown in Table V.
- 5. In addition to the statutory benefits above mentioned, the pensions payable to retired teachers in necessitous circumstances and to all widows and children of deceased members have been increased during the valuation period by a cost-of-living bonus from year to year, and as from the 1st April, 1925, the latter classes of additional allowances have been made permanent at the rate of £13 per annum in respect of the widow and of each child. These bonuses are provided for out of the Consolidated Fund, and, as they are not a charge on the Superannuation Fund, they have accordingly not been taken into account in making the valuation.
- 6. The number of pensioners on the fund at the 31st January, 1924, according to the cards supplied, was 1,078, drawing pensions amounting to £118,508 per annum. The number of contributors in active service at the 1st February, 1924, was 6,852, with aggregate salaries amounting to £1,855,500 per annum, and paying contributions at the rate of £104,141 per annum. The average rate of interest credited to the fund during the valuation period was £5 16s. per cent. per annum.

7. The income and outgo of the fund since the previous valuation were as follows:--

Consolidated Revenue Account of the Teachers' Superannuation Fund from the 1st January, 1920, to the 31st January, 1924.

|                            | come. | £          | s. | d.     |                          | Outgo. | £            | s. | d. |
|----------------------------|-------|------------|----|--------|--------------------------|--------|--------------|----|----|
| Funds at 1st January, 1920 |       | 526,701    | 11 | 10     | Retiring-allowances      | • •    | <br>353,896  | 13 | 5  |
| Members' contributions     |       | 385,441    | 8  | 6      | Contributions refunded   |        | <br>70,840   | 14 | 8  |
| Government subsidy         |       | 221,416    | 13 | 4      | Transfers to other funds |        | <br>1,050    | 11 | 6  |
| Interest                   |       | 159,206    | 14 | I      | Commission               | ٠.     | <br>5,264    | 16 | 5  |
| Transfers from other funds |       | 434        | 17 | $^{2}$ | Other payments           |        | <br>3,486    | 10 | -1 |
|                            |       |            |    |        | Funds at 31st January,   | 1924   | <br>858,661  | 18 | 10 |
|                            |       |            |    |        |                          |        |              |    |    |
|                            |       | £1,293,201 | 4  | 11     | 1                        |        | £1,293,201   | 4  | 11 |
|                            |       |            |    | -      |                          |        | ر سر سر سر س |    |    |

#### Basis of Valuation.

8. In estimating the liabilities of the fund it was necessary to arrive at the proportion of the members withdrawing, dying, or retiring at each age. These factors have been carefully investigated in the light of the fund's experience since the previous valuation, and the rates and the Life and Service Table which have been adopted in the valuation as a result of this investigation are stated in Tables VI and VII appended. The next factors which entered into the calculations were the scales of average salaries in respect of males and females for the year immediately following the valuation date. The salary scales constructed were not themselves assumed in making the valuation, but the ratios of increase from age to age were applied to the actual salary of each contributor as at the 1st February, 1924. Pensions and widows' and children's benefits were valued on the same bases employed in the previous valuation. The rate of interest adopted in the valuation was 4 per cent.

#### RESULTS OF VALUATION.

9. The valuation has been carried out in accordance with the above assumptions, and the results are shown in Table VIII appended, which table may be shortly summarized as follows:—

| Present value of the liability for benefits Present value of the contributions receivable fro  | <br>m members | • • | £<br><br>1,192,487 | £<br>6,125,697         |
|--|---------------|-----|--------------------|------------------------|
| Funds in hand  | ••            | • • | 858,662            | 2,051,149              |
| Present value of total liability of State<br>Less present value of existing subsidy of £68,000 |               |     | • •                | 4,074,548<br>1,700,000 |
| Value of future subsidies to be provided by the subsidy of £68,000 per annum                   |               |     | -                  | £2,374,548             |

- 10. The above statement discloses a total State liability of £4,074,548, as compared with £2,813,176 at the previous valuation, giving an increase of £1,261,372. This increase has been due to two causes, viz.—
- (a) The natural tendency of the previous liability to increase on account of the principle laid down by the Act that the Government subsidy shall be so determined as to meet only the deficiency for the triennium immediately following the valuation date; and
  - (b) The much larger number of contributors and pensioners who are now on the fund.

With reference to (b) above, the following statement compares the number of contributors and total salaries and the number of pensioners and total pensions with the corresponding figures of the previous valuation:—

| -   |      | Previous Valuation.                       | Present Valuation.                       | Increase.                           |
|---|------|---|--|-------------------------------------|
| Number of contributors Total salaries Number of pensioners Total pensions | <br> | <br>5,016<br>£1,265,772<br>785<br>£63,404 | 6,852<br>£1.855,500<br>1,078<br>£118,508 | 1.836<br>£589,728<br>293<br>£55.104 |

11. Section 38 (2) of the Act requires the report to be so prepared as to show "the probable annual sums required by the fund to provide the retiring and other allowances falling due within the ensuing three years, without affecting or having recourse to the actuarial reserve appertaining to the contributors' contributions."

The contributions are insufficient to provide the full benefits for service after joining the fund, and consequently it is assumed that the principle underlying the section is that the State should pay for pensions arising out of service before joining the fund and for such part of the pensions arising out of subsequent service as is not covered by the contributors' contributions. The estimated sums payable for pensions, the amounts purchased by contributions, and the subsidies payable on this basis during the three years succeeding the valuation date are as follows:—

| Required for  |     | ĺ  | 1924-25.               | 1925–26.               | 1926–27.         |
|---|-----|----|------------------------|------------------------|------------------|
| Estimated normal pensions Deduct amount provided by contributions | • • |    | £<br>127,888<br>30,700 | £<br>135,718<br>33,815 | £ 144,490 37,822 |
| Subsidy required  |     | •• | 97,188                 | 101,903                | 106,668          |

- 12. The above figures would give for the years 1924-25, 1925-26, and 1926-27 an average subsidy of £102,000 per annum, or £34,000 more per annum than is at present being paid. The following considerations, however, must be taken into account:—
  - (a) The actuarial recommendations made in the past in pursuance of the Act have not been fully carried out, the actual payments into the fund to the 31st January, 1924, being short by £213,251 of the amounts recommended. From Table IX of the appendix it will be seen that this shortage accumulated at 4 per cent. interest to the end of this year amounts to £314,324, and I consider that at least £15,000 per annum will require to be added to the future subsidies on this account.
  - (b) The inclusion since the valuation date of house allowance, &c., in computing contributions and pensions will entail a further special addition to the Government subsidy to the fund, and I consider that an additional subsidy of £54,000 or £18,000 annually during the triennium will be required in this connection.
  - (c) The State subsidy should also provide year by year the amount charged to the Superannuation Fund in administration expenses, less possibly the amount of commission due in connection with investments which might be regarded as a deduction from interest. I consider that since the fund requires the assistance of a subsidy the interpretation of section 38 (2) of the Act is that expenses amounting to, say, £2,000 per annum should form part of the subsidy, since they are not provided for by the employees' contributions.
- 13. I have accordingly to report that the annual subsidy required for each year of the period ending 31st January, 1927, is as follows:—

|      |     |            | £  |
|------|-----|------------|--|
| <br> | • • | <br>       | 68,000   |
|      |     | £          |  |
| <br> |     | <br>34,000 |  |
| <br> |     | <br>15,000 |  |
| <br> |     | <br>18,000 |  |
| <br> |     | <br>2,000  |  |
|      |     |            | 69,000   |
|      |     |            | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |

Total annual subsidy required for the years 1924-25, 1925-26, 1926-27 ..£137,000

When making provision for this annual subsidy it is important to see that it is back-dated to 1924, and that interest of 4 per cent. is added to any portion paid late.

#### GENERAL

14. The limitation in respect of teachers joining the Service after the 24th December, 1909, to a maximum pension of £300 per annum is a serious blot on the fund. Not only does such a limitation deprive the State of that hold which a superannuation scheme ought to give on its best men when more remunerative employment offers elsewhere, but it obviously causes those teachers who remain to defer their retirement, and a general movement in this direction might seriously affect the efficiency of the service. The limitation is therefore likely to defeat one of the principal aims and objects of the superannuation scheme, and it only causes a comparatively trifling saving in the cost of the total pensions.

Few, if any, of the teachers who are affected by the limitation have yet reached the normal age of retirement, and possibly many have not fully realized its effect; but I would be failing in my duty if I did not draw special attention to the probable effects of such limitation, particularly as it is almost unknown in large pension schemes elsewhere. In this connection it may not be out of place to mention that the benefits accruing to the State as employer in having a good superannuation scheme are considered so great by the Imperial Government that their Civil Service pension scheme, which includes certain substantial death benefits in addition to a pension on a similar basis to that of the New Zealand Government Superannuation Funds, but without any such limitation by way of maximum pension, is paid for in full by the State.

In the New Zealand Teachers' Superannuation Fund the Government had contributed at the valuation date only £399,417, as against £1,031,725 contributed by the employees themselves—

that is to say, the teachers have shouldered practically three-quarters of the burden.

15. I consider also that it would be a great improvement if the present involved method of arriving at the subsidy were abolished in favour of an automatic method based upon a definite percentage of the contributions paid. Any estimate, however, of the percentage that would be necessary would need to make due allowance for the important changes in the constitution of the fund since the valuation date—e.g., the amended salaries scheme, and the inclusion of house allowance, &c., for the purposes of contributions and pensions. These matters are being fully investigated in connection with the 1927 valuation of the fund now in hand, and accordingly I considered that no material benefit would be gained by withholding a report which from causes outside of my control is long overdue.

16. In conclusion I have to acknowledge the capable assistance of Mr. G. W. Melville, F.F.A., and the efficient service rendered by the staff engaged in carrying out the heavy work of the

valuation.

C. Gostelow, F.I.A., Government Actuary.

## APPENDIX.

#### TABLE I.

THE BENEFITS AND CONTRIBUTIONS PROVIDED FOR BY THE ACT.

(These benefits are slightly modified in the case of those existing contributors (numbering 24) who elected to remain under the provisions of Part IX of the Education Act, 1908, and in the case of persons employed in service under the universities on the 7th November, 1912, who joined the scheme before the 1st July, 1913.)

The contributions vary according to the age at the time when the first contribution becomes payable, and are as follows:—

Contributions

| Age  | 30 and u   | nder       |        | <br> | • • | 5 per | cent. of pay. |
|------|------------|------------|--------|------|-----|-------|---------------|
| Over | : 30 and 1 | not exceed | ing 35 | <br> |     | 6     | ,,            |
| ,,   | 35         | ,,         | 40     | <br> |     | 7     | ,,            |
| ,,   | 40         | ,,         | 45     | <br> |     | 8     | ,,            |
| ,,   | 45         | ,,         | 50     | <br> |     | 9     | ,,            |
| ,,   | 50         |            |        | <br> |     | 10    | ,,            |

- (I. On Attainment of Pension. Males at Age 65, or after Forty Years' Service; Females at Age 55, or after Thirty Years' Service.
- (1) A pension of one-sixtieth of yearly salary for each year's service, with a limit of forty-sixtieths (two-thirds) of salary. Maximum pension for entrants after the 24th December, 1909, £300.
- (2) Or the option, in lieu thereof, of a return of total contributions.
- (Note.—The Board may, with the approval of the Minister of Education, retire contributors on pension in the following cases:—
  - (a) Where the age of a male contributor is nor less than 60, or of a female contributor not less than 50.
  - (b) Where the age of a male contributor is not less than 55, if his length of service is not less than thirty years.
  - (c) Where the length of service of a male contributor is not less than thirty-five years.

In any such exceptional cases the Board may, with the approval of the Minister of Education, impose upon the retiring contributor such terms and conditions as to payments into the fund or otherwise as the Board thinks fit.)

II. On retirement before Pension Age (on the Grounds of being Medically Unfit for Future Duty).

Benefits

- (1) At any time after fifteen years' service, on the certificate of two doctors approved by the Board, a pension of one-sixtieth of yearly salary for each year's service, limited to forty-sixtieths.
- (2) or the option, in lieu thereof, of a return of total contributions.
  - III. On Retirement before Pension Age (on other Grounds than Medical Unfitness).
- (1) On voluntary retirement or dismissal for misconduct, a return of total contributions.
  - IV. At Death, whether before or after becoming entitled to a Retiring-allowance.
- (1) Leaving no widow or children: A return of total contributions less any sums received from the fund during lifetime.
- (2) Leaving a widow:—
  - (a) £18 yearly during widowhood; or
  - (b) A return of total contributions, together with such compensation (if any) as the contributor would have been entitled to receive from the Consolidated Fund on compulsory retirement, less any sums received from the fund during lifetime. (If death occurs before retirement the compensation is paid from the Consolidated Fund; if after retirement, from the Superannuation Fund.)
- (3) Leaving children: 5s. weekly to each child until age 14.

(Note.—The contributions and pensions are payable monthly, and the pensions are computed on the average salary for the last three years.)

TABLE II.

STATEMENT OF PROGRESS OF ACTIVE MEMBERSHIP.\*

|           |         | New Members | š.                            | Increase by | Promotion.                    | :       | Discontinue | d.                            | Total in | Force at Enc | l of Year.                   |
|-----------|---------|-------------|-------------------------------|-------------|-------------------------------|---------|-------------|-------------------------------|----------|--------------|------------------------------|
| Year.     | Number. | Salaries,   | Annual<br>Contribu-<br>tions. | Salaries.   | Annual<br>Contribu-<br>tions. | Number. | Salaries.   | Annual<br>Contribu-<br>tions. | Number.  | Salaries.    | Annual<br>Contribu-<br>tions |
|           |         | £           | £                             | £           | £                             |         | £           | £                             |          | £            | £                            |
| 1906-7    | 2,939   | 444,950     | 33,652                        | 1           |                               | 127     | 18,095      | 1,604                         | 2,812    | 426,855      | -32,048                      |
| 1907-8    | 211     | 34,600      | 1,860                         | 14,446      | 914                           | 141     | 29,294      | 1,952                         | 2,882    | 446,607      | 32,870                       |
| Part 1908 | 197     | 19,083      | 1,075                         | 14,000      | 825                           | 148     | 25,044      | 1,713                         | 2,931    | 454,646      | 33,057                       |
| 1909      | 334     | 37,327      | 1,185                         | 41,670      | 2,975                         | 113     | 22,403      | 1,673                         | 3,152    | 511,240      | 35,544                       |
| 1910      | 287     | 35,734      | 1,862                         | 36,466      | 2,416                         | 192     | 35,508      | 2,537                         | 3,247    | 547,932      | 37,285                       |
| 1911      | 349     | 40,267      | 2,234                         | 41,524      | 1,823                         | 212     | 33,731      | 2,378                         | 3,384    | 595,992      | 38,964                       |
| 1912      | 427     | 50,364      | 2,740                         | 14,616      | 710                           | 170     | 32,183      | 2,201                         | 3,641    | 628,789      | 40,21;                       |
| 1913      | 645     | 108,638     | 6,216                         | 11,249      | 1,292                         | 269     | 40,087      | 2,765                         | 4,017    | 708,589      | 44,950                       |
| 1914      | 522     | 61,978      | 2,913                         | 41,789      | 2,541                         | 270     | 45,471      | 2,579                         | 4,269    | 766,885      | 47,83                        |
| 1915      | 428     | 55,792      | 3,096                         | 79,773      | 4,610                         | 253     | 42,428      | 2,742                         | 4,444    | 860,022      | 52,795                       |
| 1916      | 468     | 61,114      | 3,352                         | 48,365      | 2,863                         | 259     | 42,795      | 2,802                         | 4,653    | 926,706      | 56,208                       |
| 1917      | 398     | 52,722      | 2,899                         | 36,262      | 2,107                         | 259     | 45,676      | 2,800                         | 4,792    | 970,014      | 58,414                       |
| 1918      | 420     | 52,061      | 2,786                         | 23,605      | 1,384                         | 318     | 56,119      | 3,385                         | 4,894    | 989,561      | 59,199                       |
| 1919      | 533     | 80,160      | 4,059                         | 241,322     | 14,068                        | 408     | 80,897      | 5.154                         | 5,019    | 1,230,146    | 72,172                       |
| 1920      | 619     | 104,664     | 5,841                         | 264,234     | 15,284                        | 464     | 99,844      | $^{1}$ 5,897                  | 5,174    | 1,499,200    | 87,400                       |
| 1921      | 1,048   | 154,143     | 8,404                         | 109,148     | 6,100                         | 350     | 91,448      | 5,448                         | 5,872    | 1,671,043    | 96,456                       |
| 1922-3    | 838     | 143,524     | 7,881                         | -(24,815)   | -(1,540)                      | 414     | 112,240     | 7,517                         | 6,296    | 1,677,512    | 95,280                       |
| 1923-4    | 1,029   | 172,597     | 9,371                         | 40,555      | 2,595                         | 467     | 116,594     | 7,155                         | 6,858    | 1,774,070    | 100,09                       |
| Totals    | 11,692  | 1,709,718   | 101,426                       | 1,034,209   | 60,967                        | 4,834   | 969,857     | 62,302                        |          |              | ••                           |

PARTICULARS OF DISCONTINUANCE OF ACTIVE MEMBERSHIP.\*

| Year.   |   |   | Dr. Door   | L1.  | By Wit  | thdrawal  |   |  | Ву   | Pension   | 18.  |                               |  | ВуТ                         | ransfer  | !<br>Mad   | al diaconti   |   |
|---|---|---|--|--|---|---|---|--|--|---|--|-------------------------------|--|-----------------------------|--|--|---|---|
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ |   |   | Бу Беан  | νn.  | or Di   | smissal.  | Ordin<br>or S   | nary (Age<br>Service).   |  |   | Me   | edicall                       | y unfit.   |                             |  | .106   | at disconti   | nuea.   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | Year.   | Number.   | Amount paid<br>on Retirement.  | Family Pension.  | Number.   | Amount paid<br>on Retirement.   | Number.   | Pensions<br>entered upon.  | Number.  | Pensions<br>entered upon.   | Number.  | Amount paid<br>on Retirement. | Pensions<br>entered upon.  | Number.                     | Amount paid<br>on Transfer.  | Number.  | Amount paid<br>on Retirement.   | Pensions<br>entered upon.   |
|   | 1907-8 Part 1908 1909 1910 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922-3 | 12<br>10<br>8<br>8<br>9<br>11<br>13<br>16<br>35<br>22<br>43<br>67<br>19<br>15 | 128<br>296<br>415<br>438<br>530<br>895<br>492<br>1,016<br>2,167<br>1,666<br>2,749<br>5,567<br>2,750<br>3,482<br>2,105<br>4,835 | £ 287 266 279 215 127 189 62 290 106 285 202 217 785 372 380 206 395 | 105<br>120<br>76<br>131<br>152<br>169<br>190<br>196<br>169<br>179<br>172<br>222<br>292<br>291<br>271<br>275 | 206<br>938<br>1,202<br>1,338<br>3,078<br>4,184<br>3,717<br>4,587<br>6,388<br>4,922<br>5,185<br>6,010<br>7,710<br>12,386<br>16,103<br>12,386<br>14,152 | 20<br>9<br>22<br>38<br>32<br>43<br>40<br>32<br>28<br>33<br>27<br>20<br>73<br>55<br>48 | 4,207<br>1,182<br>503<br>1,825<br>4,099<br>2,816<br>3,421<br>3,903<br>3,348<br>2,320<br>10,534<br>7,739<br>9,170<br>19,169 | 22<br>88<br>77<br>66<br>12<br>14<br>9<br>8<br>4<br>3<br>4<br>4<br>13 | <br>224<br>714<br>1,271<br>725<br>1,510<br>2,172<br>1,648<br>1,147<br>544<br>426<br>406<br>553<br>527 | 4<br>9<br>4<br>6<br>10<br>10<br>14<br>9<br>8<br>8<br>16<br>10<br>5<br>18<br>11<br>11<br>11 | 137 234 51                    | 312<br>208<br>491<br>343<br>559<br>946<br>1,372<br>784<br>725<br>1,442<br>1,118<br>2,550<br>1,489<br>1,505 | 1 1 2 3 4 1 3 1 1 2 1 1 2 4 | 27<br>3<br>83<br><br>48<br>878<br>212<br>87<br>27;<br>181<br>552<br>95 | 141<br>148<br>113<br>192<br>212<br>170<br>269<br>270<br>253<br>259<br>259<br>318<br>408<br>404<br>350<br>414 | 471<br>1,468<br>1,668<br>1,825<br>3,519<br>4,797<br>4,612<br>5,079<br>7,967<br>7,963<br>8,846<br>13,304<br>16,317<br>20,142<br>15,804<br>16,751 | 4,806<br>1,656<br>1,27;<br>2,607<br>5,499<br>4,906<br>5,152<br>7,076<br>6,410<br>4,977<br>6,655<br>4,93;<br>4,466<br>13,86;<br>10,16;<br>11,408<br>23,94; |

<sup>\*</sup> Compiled from annual reports.

TABLE III.
STATEMENT OF PROGRESS OF PENSIONS.\*

|           | At       | tainment | of Pe   | nsion Age<br>ervice, | or Le   | ngth of         |         | Exte     | nded    | Provisio  | ons.    |          |         | Reti     | ed M    | edically                | Unfit   |          |
|-----------|----------|----------|---------|----------------------|---------|-----------------|---------|----------|---------|-----------|---------|----------|---------|----------|---------|-------------------------|---------|----------|
| Year.     | Gr       | anted.   |         | oid by<br>eath.      | Tn      | Force.          | Gr      | anted.   |         | d by ath. | In      | Force.   | Gra     | inted.   | Dea     | id by<br>th or<br>piry, | In      | Force.   |
|           | Number.  | Pension. | Number. | Pension.             | Митрег. | Pension.        | Number. | Pension. | Number. | Pension.  | Number. | Pension. | Number. | Pension. | Number. | Pension.                | Number. | Pension. |
|           |          | £        |         | £                    |         | £               |         | £        |         | £         |         | £        |         | £        |         | £                       |         | £        |
| 1906-7    | 78       | 4,207    |         |                      | 78      | $4,\tilde{2}07$ | ١       | !        |         |           |         | ·        | 6       | 312      |         | ~                       | 6       | 312      |
| 1907-8    | 20       | 1,182    | 4       | 220                  |         | 5,169           |         | l i      |         |           |         |          | 4       | 208      | i       | 52                      | 9       | 468      |
| Part 1908 | 9        | 503      | 3       | 156                  | 100     | 5,516           | ll      |          |         |           |         |          | 9       | 491      | 1       | 52                      | 17      | 907      |
| 1909      | 22       | 1,825    | 4       | 248                  | 118     | 7,093           | 2       | 224      |         |           | $^{2}$  | 224      | 4       | 343      | 4       | 237                     | 17      | 1,013    |
| 1910      | 38       | 4,099    | - 8     | 693                  | 148     | 10,499          | 8       | 714      |         | 1         | 10      | 938      | 6       | 559      | 2       | 164                     | 21      | 1,408    |
| 1911      | 32       | 2,816    | 3       | 175                  | 177     | 13,140          | 7       | 1,271    |         |           | 17      | 2.209    | 10      | 630      | 1       | 163                     | 30      | 1,875    |
| 1912      | 43       | 3,421    | 3       | 163                  | 217     | 16,398          | 6       | 725      |         |           | 23      | 2,934    | 10      | 946      | 1       | 52                      | 39      | 2,769    |
| 1913      | 40       | 3,903    | - 8     |                      | 249     | 19,607          | 12      | 1,510    |         | ļ i       | 35      | 4,444    | 14      | 1,372    |         | 260                     | 50      | 3,881    |
| 1914      | 32       | 3,348    |         |                      | 269     | 22,094          | 14      | 2,172    |         |           | 49      | 6,616    | 9       | 784      |         | 247                     | 56      | 4,418    |
| 1915      | $^{-28}$ | 2,320    | 9       | 833                  |         | 23,581          | . 9     | 1,648    |         |           | 58      | 8,264    | 8       | 725      |         | 341                     | 61      | 4,802    |
| 1916      | 33       | 3,861    | 6       |                      | 315     | 26,872          | 8       | 1,147    |         |           | 66      | 9,411    | 16      | 1,442    |         | 337                     |         | 5,907    |
| 1917      | 27       | 3,060    |         | 1,388                |         | 28,544          | 4       | 544      | $^2$    | 254       | 68      | 9,701    | 10      | 1,118    |         | 393                     |         | 6,632    |
| 1918      | 20       | 2,550    |         |                      | 336     | 30,484          | 3       | 426      |         |           | 71      | 10,127   | 5       | 704      |         | 211                     | 81      | 7,125    |
| 1919      | 73       | 10,534   | 9       |                      | 400     | 40,493          | 4       | 406      | ٠.      |           | 75      | 10,533   | 18      | 2,550    |         | 646                     | 94      | 9,029    |
| 1920      | 55       | 7,739    | 18      | 1,963                |         | 46,269          | 3       | 553      | 2       | 600       | 76      | 10,486   | 11      | 1,490    |         | 616                     | 99      | 9,903    |
| 1921      | 4.8      | 9,170    |         | 1,046                |         | 54,393          | 4       | 527      | 2       | 315       | 78      | 10,698   | 11      | 1,505    |         | 760                     | -       | 10,648   |
| 1922-3    | 95       | 19,169   |         | 1,388                |         | 72,174          | 13      | 2,301    | 3       | 509       | 88      | 12,490   | 9       | 2,084    |         | 515                     |         | 12,217   |
| 1923–4    | 79       | 16,617   | 13      | 1,314                | 020     | 87,477          | 15      | 2,766    | 4.      | 712       | 99      | 14,544   | 8       | 1,145    | 5       | 818                     | 111     | 12,544   |
| Totals    | 772      | 100,324  | 152     | 12,847               |         |                 | 112     | 16,934   | 13      | 2,390     | • •     |          | 168     | 18,408   | 57      | 5,864                   |         |          |

|           |     | Deatl        | n of Contrib | utor or      | Pensioner :         | Family       | Pension. |              |          | Total        | Pensions. |              |          |
|-----------|-----|--------------|--------------|--------------|---------------------|--------------|----------|--------------|----------|--------------|-----------|--------------|----------|
| Year      | •   | Gra          | anted.       |              | by Death<br>Expiry. | In           | Force.   | Gra          | anted.   | ,            | Void.     | Jn 1         | Force.   |
| ,,        |     | Num-<br>ber. | Pension.     | Num-<br>ber. | Pension.            | Num-<br>ber. | Pension. | Num-<br>ber. | Pension. | Num-<br>ber, | Pension.  | Num-<br>ber. | Pension. |
|           |     |              | £            |              | £                   |              | £        |              | £        |              | £         |              | £        |
| 906-7     |     | 10           | 155          |              |                     | 10           | 155      | 94           | 4,674    |              | i         | 94           | 4,67     |
| .907-8    |     | 20           | 310          | 3            | 39                  | 27           | 426      | 44           | 1,700    | 8            | 311       | 130          | 6,06     |
| Part 1908 |     | 26           | 403          | . 2          | 31                  | 51           | 798      | 44           | 1,397    | 6            | 239       | 168          | 7,22     |
| 909       |     | 32           | 476          | 5            | 65                  | 78           | 1,209    | 60           | 2,868    | 13           | 550       | 215          | 9,53     |
| 910       |     | 17           | 269          | 4            | 62                  | 91           | 1,416    | 69           | 5,641    | 14           | 919       | 270          | 14,26    |
| 911       |     | 18           | 279          | 9            | 132                 | 100          | 1,563    | 67           | 4,996    | 13           | 470       | 324          | 18,78    |
| 912       |     | 6            | 93           | 9            | 122                 | 97           | 1,534    | 65           | 5,185    | 13           | 337       | 376          | 23,63    |
| 913       |     | 33           | 489          | 4            | 57                  | 126          | 1,966    | 99           | 7,274    | 15           | 1,011     | 460          | 29,89    |
| 914       |     | 19           | 307          | 15           | 210                 | 130          | 2,063    | 74           | 6,611    | 30           | 1,318     | 504          | 35,19    |
| 915       |     | 30           | 450          | 12           | 161                 | 148          | 2,352    | 75           | 5,143    | 24           | 1,335     | 555          | 38,99    |
| 916       |     | 20           | 300          | 12           | 176                 | 156          | 2,476    | 77           | 6,750    | 21           | 1,083     | 611          | 44,660   |
| 917       |     | 21           | 333          | 14           | 207                 | 163          | 2,602    | 62           | 5,055    | 39           | 2,242     | 634          | 47,479   |
| 918       |     | 61           | 893          | 14           | 197                 | 210          | 3,298    | 89           | 4,573    | $^{25}$      | 1,018     | 698          | 51,03    |
| 919       |     | 24           | 372          | 17           | 251                 | 217          | 3,419    | 119          | 13,862   | 31           | 1,422     | 786          | 63,47    |
| 920       |     | 25           | 380          | 18           | 249                 | 224          | 3,550    | 94           | 10,162   | 44           | 3,428     | 836          | 70,20    |
| 921       |     | 12           | 206          | 10           | 140                 | 226          | 3,616    | 75           | 11,408   | 30           | 2,261     | 881          | 79,35    |
| 922-3     |     | 25           | 395          | 17           | 251                 | 234          | 3,760    | 142          | 23,949   | 39           | 2,663     | 984          | 100,64   |
| 923-4     | • • | 25           | 405          | 11           | 168                 | 248          | 3,997    | 127          | 20,934   | 33           | 3,013     | 1,078        | 118,56   |
| Totals    |     | 424          | 6,515        | 176          | 2,518               |              |          | 1,476        | 142,182  | 398          | 23,620    |              |          |

<sup>\*</sup> Compiled from annual reports.

TABLE IV.

Classification of Pensions granted for Period from 1st January, 1920, to 31st January, 1924, inclusive, showing the Ages at which they were granted.\*

|                                      |       |   | at of Pension Age<br>of the Service.                            | Re            | tired I | Medically Unfit.                                      | Re      |       | ander extended<br>ovisions.                           |               | ws and<br>ldren.                        |                |   | Total   |  |
|--------------------------------------|-------|---|---|---------------|---------|---|---------|-------|---|---------------|---|----------------|---|---|--|
| Age at<br>which<br>ension<br>ranted. | Nun   | nber.                                   | Amount of   | Nun           | nber.   | Amount of   | Nur     | nber. | Amount of   | ber.          | Amount of<br>Pension.                   | N              | Tumbe                                   | r.  | Amount of  |
|                                      | М.    | F.                                      | Pension.  | M.            | F.      | Pension.  | M.      | F.    | Pension.  | Number        | Amor                                    | M.             | F.                                      | Total.  | Pension.   |
|                                      |       |   | £ s. d.   |               |         | £ s. d  |         |       | £ s. d.   |               | £                                       |                |   |   | £ s.   |
|                                      |       |   | ••  |               |         |   |         | ٠.    | • • •   | 2             | 36                                      |                | 2                                       | 2   | <b>3</b> 6 0   |
| }                                    | • •   | • • •                                   | ••  |               |         | • •   | ••      |       | • • •   | 1             | 18                                      | • •            | 1                                       | 1   | 18 0   |
| l                                    | • •   | ٠.                                      |   |               | ٠.      | • •   |         | • • • | • •   | $\frac{1}{1}$ | 18                                      | • •            | 1                                       | $egin{array}{c c} & 1 & 1 \\ & 1 & 1 \end{array}$ | $\begin{array}{ccc} 18 & 0 \\ 18 & 0 \end{array}$        |
| ,<br>)                               | i     |   | 32 7 0  |               |         |   | ::      |       |   | 1             | 18:                                     | i              | i                                       | $\frac{1}{2}$                                     | 50 7   |
| 7                                    | 5     |   | 1,182 10 0  |               |         |   |         |       |   | 3             | 54                                      | 5              | 3                                       | 8   | 1,236 10   |
| 3                                    | 11    | 1                                       | 2,424 1 0   |               |         |   | ٠       |       |   | 1             | 18                                      | 11             | 2                                       | 13  | 2,442 1  |
| ·                                    | 19    | 1                                       | 4,141 13 0  | ١             |         | -00   | .   •:  |       |   | 5             | 90                                      | 19             | 6                                       | 25  | 4,231 13   |
| ļ                                    | 12    | • •                                     | 3,680 16 0  | 3             | · · ·   | 738 4 0   |         | ٠.    | 36 8 0  | 3             | 54                                      | 16             | 3                                       | 19  | 4,509 8  |
| }<br>2                               | 6     | i                                       | $\begin{bmatrix} 1,324 & 4 & 0 \\ 1,473 & 0 & 0 \end{bmatrix}$  | $\frac{2}{1}$ |         | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  |         | • •   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\frac{2}{2}$ | 36<br>36                                | $\frac{10}{7}$ | 3                                       | $\frac{12}{10}$                                   | 2,270 12<br>2,022 4                                      |
| i                                    | 4     | 4                                       | 1,668 15 0  | 2             |         | 480 4 0   |         |       | 778 4 0   | 1             |   | 9              | 4                                       | 13  | 2,927 3  |
| )                                    | 7     | 8                                       | 2,840 14 0  |               |         |   | 8       |       | 1,248 10 0  | 2             | 36                                      | 15             | 10                                      | 25  | 4,125 4  |
| )                                    | 5     | 2                                       | 1,608 15 0  | 2             | ١       | 297 13 0  | 2       |       | 577 0 0   |               |   | 9              | 2                                       | 11  | 2,483 8  |
| 3                                    | 9     | 4                                       | 3,113 14 0  | 2             | • •     | 466 8 0   |         |       | 482 8 0   | 1             | 18                                      | 13             | 5                                       | 18  | 4,080 10   |
|                                      | 6 5   | $\begin{vmatrix} 11\\20 \end{vmatrix}$  | $\begin{bmatrix} 3,265 & 18 & 0 \\ 4,393 & 6 & 0 \end{bmatrix}$ | • • •         | • • •   | • •   | 1       |       | 176 9 0   | $\frac{1}{3}$ | 36<br>54                                | $\frac{7}{6}$  | 13<br>23                                | 20  | 3,478 7  |
| )  <br>5                             | 6     | 33                                      | 6,168 4 0   | 1             |         | • •   | 1       | ٠٠.   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |               |   | 7              | 33                                      | 29<br>40  | $\begin{array}{cccc} 4,813 & 5 \\ 6,442 & 0 \end{array}$ |
| Ĺ '                                  | 1 1   | 14                                      | 2,615 17 0  | i             | i       | 327 19 0  |         | i     | 469 2 0   | i             | 18                                      | 4              | 17                                      | 21  | 3,430 18   |
| 3                                    |       | 10                                      | 1,862 19 0  | 1             | 2       | 434 5 0   | 1       | 2     | 197  1  0   | ĺ             | 18                                      | ĺ              | 15                                      | 16  | 2,512 5  |
| 2                                    |       | 17                                      | 2,887 17 0  | 2             | 1       | 633 4 0   |         | 1     | 239 6 0   | 2             | 36                                      | 3              | 21                                      | 24  | 3,796 7  |
| ļ ,.                                 | • •   | 7                                       | 1,182 7 0   | ٠.            |         |   | 1.      | 1     | 342 8 0   | 2             | 36                                      | 1              | 10                                      | 11  | 1,560 15   |
| )                                    | • •   | $\begin{vmatrix} 10 \\ 8 \end{vmatrix}$ | 1,531 15 0  | 1<br>1        | 2       | 392 5 0   |         | 3     | 260 4 0   | l I           | 18                                      | l              | 16                                      | 17  | 2,202 4  |
| )<br>3                               |       | 12                                      | $\begin{bmatrix} 1.284 & 17 & 0 \\ 1.893 & 8 & 0 \end{bmatrix}$ | 1             |         | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | . i     |       | ••  | 2             | 36                                      | $\frac{1}{1}$  | 8<br>  14                               | 9<br>15   | 1,474 3 $2,129$ 14                                       |
| 7                                    | • •   | 8                                       | 1,188 13 0  |               |         | 200 0 0   | '   ··· |       | • •   | Į į           | 18                                      |                | 9                                       | 9   | 1,206 13   |
| 3                                    |       | 3                                       | 419 8 0   | i             | . 1     | 114 0 0   |         |       |   | 1             |   |                | 4                                       | 4   | 533 8  |
| j                                    |       | 1                                       | 135 4 0   |               | 1       | 90 15 0   | )       | ١     |   | 1             | 18                                      |                | 3                                       | 3   | 243 19   |
| į                                    |       | 1                                       | 117 17 0  | 1             | 2       | 372 19 0  | 1       |       |   | 1             | , ]                                     | 1              | 3                                       | 4   | 490 16   |
| }<br>2                               | • • • |   | • •   | ٠.            | 3       | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |         |       | •••   | • •           |   | • •            | 3                                       | 3   | 426 11   |
| <br>I                                |       |   | •   |               | 3       | $\frac{101}{235} \frac{4}{13} = 0$                    |         |       |   |               |   | • •            | $\begin{array}{c c} 1 \\ 3 \end{array}$ | $\frac{1}{3}$                                     | $\begin{array}{ccc} 101 & 4 \\ 235 & 13 \end{array}$     |
|                                      | ! ::  |   | •                         |               |         | 200 10 0  |         |       |   |               |   |                |   |   | 200 10   |
| •                                    |       |   | • •   | l             |         | 86 - 1 = 0  |         |       |   |               |   | 1              |   | 1   | 86 1   |
| 3                                    |       | • •                                     |   |               | 1       | 85 1 0  |         |       |   | l             | 18                                      |                | 2                                       | 2   | 103 1  |
| 3                                    |       |   | ••  | • •           | • •     | • •   |         | •••   | • •   | 1             | 18                                      |                | 1                                       | 1   | 18 0   |
| š<br>3                               | • •   |   | ••  | • • •         |         | • •   |         | • •   | • •   | 2 2           | $\begin{array}{c} 36 \\ 36 \end{array}$ | • •            | $\frac{2}{2}$                           | $\begin{bmatrix} 2 \\ 2 \end{bmatrix}$            | $\begin{array}{ccc} 36 & 0 \\ 36 & 0 \end{array}$        |
| 2                                    | ::    | ::                                      | ::  |               |         | ••  |         | ::    |   | $\frac{2}{2}$ | 36                                      |                | $\frac{2}{2}$                           | $\frac{2}{2}$                                     | 36 0   |
| ī                                    |       |   |   | ::            |         |   |         |       |   | Ĩ             | 18                                      |                | ī                                       | ī   | 18 0   |
| 7                                    |       |   |   |               |         |   |         |       |   | 1             | 18                                      |                | 1                                       | 1   | 18 0   |
| 3                                    | ••    |   | • • •   |               |         |   | 1       |       | • •   | 2             | 26                                      | )              | 1                                       |   |  |
| 2<br>1                               | •••   |   | ••  |               |         | • •   | • • •   |       | • •   | 1 3           | 13                                      | 1              |   |   |  |
| 1 .,<br>)                            |       |   |   | ::            | • •     | • • •   |         |       |   | 2 2           | 26<br>26                                |                | 1                                       |   |  |
| 9                                    | ::    |   | ::  | ::            |         | ::  |         |       |   | 0             | 0                                       |                |   |   |  |
| 8                                    |       |   |   |               |         | • •   |         |       |   | 5             | 65                                      | İ              |   |   |  |
| 7                                    |       |   |   |               |         |   |         |       |   | 2             |   | >19            | 17                                      | 36  | 468 0  |
| ß                                    |       | • • •                                   |   |               |         |   |         | ٠.    |   | 3             | 39                                      | ŀ              |   |   |  |
| 5<br>4                               |       | : ••                                    |   | • •           |         | • •   | • • •   |       |   | 4 5           | 52                                      |                | 1                                       | :   |  |
| 0                                    |       |   |   |               |         | • • •   |         | • • • | • • •   | 5<br>  L      | 65<br>13                                | -              | i                                       | :   |  |
| 3<br>2                               |       | 1                                       | ::  | ::            | ::      |   |         |       |   | 4             | 52                                      | 1              |   |   |  |
| 1                                    |       |   |   |               |         |   |         | 1     |   | 2             | 26                                      |                |   |   |  |
| 0                                    |       |   |   |               |         |   | ١.,     |       |   | 3             | 39                                      | j              |   |   |  |
| otals                                | 101   | 178                                     | 59 427 10 0   | 01            | 1 10    | 6 222 1 6   | 07      | 0     | 6 910 4 0   | OF            | 1 200                                   | 100            | 970                                     | 490   | 88 288 4   |
| otals.                               | 101   | 11/0                                    | 52,437 19 0   | 21            | 18      | 6,223   1   0   | )   27  | 8     | 6,319 4 0   | 87            | [1,386]                                 | 168            | 270                                     | 438   | 66,366 4   |

<sup>\*</sup> Compiled from cards,

TABLE V.

PRESENT ANNUAL PAY AND CONTRIBUTIONS OF OFFICERS NOW IN SERVICE.\*

|   | Age attaine | d -        | Nur            | nber.           |         | al Pay as from<br>nary, 1924. |                       | al Contributions<br>Cebruary, 1924. | Age             |
|---|-------------|------------|----------------|-----------------|---------|-------------------------------|-----------------------|-------------------------------------|-----------------|
|   | Age attaine | <b>u</b> . | Møles.         | Females.        | Males.  | Females,                      | Males.                | Females.                            | attaine         |
|   |             |            |                |                 | £       | £                             | £                     | £                                   |                 |
|   |             |            | 1              |                 | 45      | 1                             | 2                     |                                     | 15              |
|   |             |            | 3              | 2               | 190     | 125                           | 10                    | 6                                   | $\overline{16}$ |
|   |             |            | 23 -           | 33              | 1,947   | 2,712                         | $\tilde{97}$          | 136                                 | 17              |
|   |             |            | 62             | 100             | 5,452   | 8,279                         | 273                   | 414                                 | 18              |
|   |             | • • •      | 79             | 147             | 7,384   | 12,527                        | 369                   | 626                                 | 19              |
|   |             |            | 69             | 187             | 8,004   | 19,667                        | 400                   | 983                                 | 20              |
|   |             |            | 72             | 212             | 11,857  | 31,436                        | 593                   | 1,572                               | $\frac{20}{21}$ |
|   |             |            | 60             | 218             | 12,450  | 37,708                        | 622                   | 1,885                               | 22              |
|   |             |            | 83             | 249             | 20,058  | 50.242                        | 1,003                 | 2,512                               | $\tilde{23}$    |
|   | • •         | • •        | 86             | 256             | 21.846  | 53,413                        | 1,003                 | 2,671                               | $\frac{23}{24}$ |
|   | • •         | • •        | 78             | 236             | 21,634  | 49,766                        | 1,082                 | 2,488                               | $\frac{24}{25}$ |
|   | • •         | • • •      | 74             | 225             | 21,623  | 49,953                        |                       |                                     |                 |
|   | • •         | • • •      | 70             | 163             | 21,023  |                               | 1,081                 | 2,498                               | 26              |
|   | • •         | • • •      | 67             |                 | 20,854  | 36,082                        | 1,052                 | 1,804                               | 27              |
|   |             | • • !      | 79             | 173             |         | 40,086                        | 1,043                 | 2,004                               | 28              |
|   |             | • •        |                | 166             | 25,096  | 39,705                        | 1,255                 | 1,985                               | 29              |
|   | • •         | • • •      | 63             | 146             | 21,459  | 34,823                        | 1,073                 | 1,744                               | 30              |
|   |             |            | 83             | 132             | 28,734  | 32,884                        | 1,450                 | 1,667                               | 31              |
|   | • •         | • •        | 78             | 120             | 27,822  | 30,477                        | 1,414                 | 1,551                               | 32              |
|   |             | • •        | 61             | 108             | 22,905  | 27,788                        | 1,174                 | 1,418                               | 33              |
|   | . ,         | • •        | 76             | 106             | 28,769  | 27,104                        | 1,503                 | 1,393                               | 34              |
|   |             |            | 71             | 84              | 26,671  | 22,331                        | 1,372                 | 1,159                               | 35              |
|   |             |            | 57             | 73              | 22,631  | 20,126                        | 1,184                 | 1,070                               | 36              |
|   |             |            | 59             | 70              | 23,281  | 20,100                        | 1,216                 | 1,077                               | 37              |
|   |             |            | 55             | 77              | 23,244  | 20,822                        | 1,229                 | 1,117                               | 38              |
|   |             |            | 69             | 75              | 30,072  | 20,574                        | 1,623                 | 1,124                               | 39              |
|   |             |            | <b>5</b> 7     | .68             | 22,746  | 19,134                        | 1,270                 | 1,076                               | 40              |
|   |             |            | 67             | 62              | 26,302  | 17,732                        | 1,420                 | 1,026                               | 4.1             |
|   |             |            | 74             | 59              | 29,835  | 16,548                        | 1,666                 | 956                                 | 42              |
|   |             |            | 52             | 54              | 21,322  | 15,896                        | 1,160                 | 911                                 | 43              |
|   |             |            | 67             | 86              | 29,395  | 24,763                        | 1.647                 | 1,483                               | 44              |
|   |             |            | 59             | 51              | 23,327  | 14,918                        | 1,307                 | 884                                 | 45              |
|   |             |            | 46             | 61              | 19,523  | 18,132                        | 1,159                 | 1.053                               | 46              |
|   |             |            | 44             | 52              | 18,920  | 16,299                        | 1,082                 | 914                                 | 47              |
|   |             | [          | 44             | 53              | 19,301  | 15,927                        | 1,187                 | 1,017                               | 48              |
|   |             |            | <b>5</b> 0     | 63              | 22,480  | 18,136                        | 1,436                 | 1,193                               | 49              |
|   |             |            | 45             | 54              | 18,309  | 16,425                        | 1,178                 | 1,088                               | 50              |
|   |             | /-         | 36             | 35              | 15,616  | 10,792                        | 1,015                 | 722                                 | 51              |
|   | • •         |            | 51             | 40              | 22,786  | 11,924                        | 1,437                 | 785                                 | 52              |
|   |             |            | 42             | 28              | 20,559  | 8,790                         | 1,471                 | 649                                 | 53              |
|   | • • •       | !          | 41             | $\frac{20}{21}$ | 21,357  | 7,068                         | 1,549                 | 520                                 | 54              |
|   | • •         | - 1        | 40             | $\frac{21}{26}$ | 18,407  | 7,893                         | 1,351                 | 601                                 | 55              |
|   |             | •••        | 33             | 11              | 15,295  | 3,230                         | 1,301 $1,102$         | 25 <b>4</b>                         | 56              |
|   | • •         | ••         | 33<br>42       | 11              | 17,951  | 3,360                         | 1,102                 | 274<br>274                          | 57              |
|   | • •         | • • •      | 36             | 11<br>15        | 15,338  | 5,017                         | $\frac{1,320}{1,227}$ | 388                                 | 57<br>58        |
|   | • •         | • •        | 36<br>26       |                 |         |                               |                       |                                     |                 |
|   | • •         | • •        |                | 4               | 12,110  | 1,325                         | 991                   | 114                                 | 59<br>60        |
|   | • •         | • •        | 26             | 8               | 11,536  | 2,139                         | 945                   | 191                                 |                 |
|   |             | • • •      | $\frac{21}{0}$ | $\frac{2}{1}$   | 9,385   | 620                           | 782                   | 59                                  | 61              |
|   | • •         | • •        | 9              | 1               | 3,655   | 285                           | 299                   | 26                                  | 62              |
|   |             | • •        | 10             | 1               | 5,515   | 160                           | 505                   | 16                                  | 63              |
|   |             |            | . 9            | ļ               | 4,435   | 270                           | 412                   | 24                                  | 64              |
|   |             | • •        | 14             | ]               | 6,833   | 260                           | 625                   | 23                                  | 65              |
|   |             | • •        | 3              | • •             | 890     |                               | 80                    | !                                   | 66              |
|   |             | • • •      | 3              | • •             | 1,275   |                               | 128                   | ••                                  | 67              |
|   | • •         |            | <u>l</u>       | · ·             | 265     |                               | 27                    |                                     | 73              |
| T | otals       |            | 2,626          | 4,226           | 909,727 | 945,773                       | 52,990                | 51,151                              |                 |

<sup>\*</sup> Compiled from cards.

TABLE VI. EXPERIENCE TABLE.

PROBABILITIES PER CENT PER ANNUM OF WITHDRAWAL, DEATH, AND RETIREMENT USED IN THE CALCULATION OF VALUATION FACTORS FOR THE TEACHERS' SUPERANNUATION FUND.

|  |       | С     | ontributing Memb  |                               | Contributing Members: Females. |   |                |             |                |
|--|-------|-------|---|-------------------------------|--------------------------------|---|----------------|-------------|----------------|
|  | Age.  |       | Probabilities of Withdrawal, Death, or Retirement within a Year (expressed as a Percentage of the Number existing in Service at the beginning of the Year). |                               |                                | Probabilities of Withdrawal, Death, or Retirement within a Year (expressed as a Percentage of the Number existing in Service at the beginning of the Year). |                |             | Age.           |
|  |       |       | Withdrawa!.   | Death.                        | Retirement.                    | Withdrawal.   | Death.         | Retirement. |                |
|  |       |       | Per Cent.   | Per Cent.                     | Per Cent.                      | Per Cent.   | Per Cent.      | Per Cent.   | -              |
|  |       |       | 3.20  | 0.18                          | Ter cene.                      | 2.40  | 0.13           |             | 15             |
|  |       |       | 3.20  | 0.18                          |                                | 2.60  | 0.13           |             | 16             |
|  |       |       | 3.20  | 0.18                          |                                | 2.80  | 0.13           |             | 17             |
|  |       |       | 3.20  | 0.19                          | !                              | 3.10  | 0.13           |             | 18             |
|  |       |       | 3.20  | 0.19                          |                                | 3.60  | 0.13           |             | 19             |
|  |       |       | 3.20  | 0.19                          | 1                              | 4.20  | 0.13           |             | 20             |
|  |       |       | 3.08  | 0.20                          |                                | 5.00  | 0.13           |             | 21             |
|  |       |       | 2.96  | 0.20                          |                                | 5.70  | 0.13           |             | 22             |
|  | • • • |       | 2.84  | 0.20                          |                                | 6.20  | 0.13           |             | $\frac{1}{23}$ |
|  |       | • • • | $\frac{2.73}{2.73}$   | 0.21                          |                                | 6.70  | 0.13           | 1 1         | 24             |
|  |       |       | 2.62  | 0.21                          |                                | 7.00  | 0.13           |             | 25             |
|  |       | • •   | 2.51  | 0.21                          |                                | 7.15  | 0.14           |             | 26             |
|  |       | • •   | 2.40  | 0.22                          |                                | 7.20  | 0.15           | i ::        | 27             |
|  |       |       | 2.30  | 0.22                          | ::                             | 7.10  | 0.16           |             | 28             |
|  |       |       | 2.20  | $0.\overline{23}$             |                                | 6.90  | 0.17           |             | 29             |
|  | • •   | • • • | 2.10  | 0.24                          |                                | 6.70  | 0.18           |             | 30             |
|  |       | • •   | $\frac{2.00}{2.00}$   | 0.25                          |                                | 6.40  | 0.19           |             | 31             |
|  |       |       | 1.90  | 0.26                          | !                              | 6.20  | 0.20           |             | 32             |
|  |       | • •   | 1.81  | 0.27                          |                                | 5.80  | 0.21           | 1 ::        | 33             |
|  |       | • •   | 1.72  | 0.28                          | 0.055                          | 5.50  | 0.22           | ''          | 34             |
|  | • •   | • •   | 1.63  | 0.29                          | 0.060                          | 5.10  | 0.23           | ::          | 35             |
|  |       | • •   | 1.56  | 0.30                          | 0.065                          | 4.70  | $0.23 \\ 0.24$ |             | 36             |
|  |       |       | 1.50  | 0.31                          | 0.070                          | 4.20  | 0.25           | [           | 37             |
|  | • •   | • •   | 1.45  | 0.32                          | 0.075                          | 3.70  | 0.26           | 0.30        | 38             |
|  | • •   | • •   | 1.40  | 0.33                          | 0.080                          | 3.10  | 0.27           | 0.40        | 39             |
|  | • •   | • •   | 1.35  | 0.35                          | 0.085                          | 2.60  | 0.28           | 0.50        | 40             |
|  |       | • •   | 1.31  | 0.37                          | 0.090                          | 2.20  | 0.29           | 0.60        | 41             |
|  | • •   | • •   | 1.28  | 0.39                          | 0.100                          | 1.90  | 0.30           | 0.70        | 42             |
|  |       |       | 1.26  | 0.41                          | 0.100                          | 1.60  | 0.31           | 0.90        | 43             |
|  | • •   | • •   | 1.26  | 0.44                          | 0.150                          | 1.30  | 0.32           | 1.10        | 44             |
|  | • •   | • •   | 1.22  | 0.47                          | 0.180                          | 0.95  | 0.33           | 1.40        | 45             |
|  | • •   | . • • | 1.22  | 0.47                          | 0.180                          | 0.52  | 0.34           | 2.00        | 46             |
|  | • •   | • • • | 1.18  | 0.55                          | 0.210                          |   | 0.35           | 3.00        | 47             |
|  | • •   | • •   | 1.16  | 0.59                          | 0.240                          | ••  | 0.37           | 4.50        | 48             |
|  | • •   | • •   | 1.13  | $0.69 \\ 0.63$                | 0.320                          |   | 0.39           | 6.00        | 49             |
|  | • •   | • • • | 1.13  | 0.68                          | 0.400                          | ••  | 0.41           | 7.50        | 50             |
|  | • •   | • •   | 1.12  | $0.08 \\ 0.73$                | 0.400                          | •••   | 0.44           | 9.00        | 51             |
|  | • •   | • •   | 1.10  | 0·73<br>0·78                  | 0.750                          | ••  | 0.47           | 11.00       | 52             |
|  | • •   | • •   | 1.04  | 0.78                          | 1.150                          |   | 0.50           | 13.00       | 53             |
|  | • •   |       | 0.98  | 0.88                          | 1.750                          |   | 0.54           | 16.00       | 54             |
|  | • •   | • •   | 0.98  | 0.88                          | 2.750                          | ••  | 0.59           | 20.00       | 55             |
|  |       | • •   | 0.68  | 0.99                          | 4.000                          | •••   | 0.64           | 25.00       | 56             |
|  | • •   | • •   | 0.43  | 1.05                          | 6.000                          |   | 0.70           | 25.00       | 57             |
|  | • •   | • •   | 0.43  | 1.11                          | 8.000                          | • •   | 0.70           | 25.00       | 58             |
|  | • •   | • •   | !   | 1.11                          | 10.000                         | • • •   | 0.70           | 25.00       | 59             |
|  | • •   | • •   | ;   | 1·18<br>1·25                  | 10.000                         | •••   |                | 100.00      | 60             |
|  | • •   | • •   | • • •   | $\frac{1\cdot 25}{1\cdot 33}$ | 10.000                         | ••  | • •            | 100.00      | 00             |
|  | • •   | • •   |   | 1·33<br>1·41                  | 10.000                         | İ   |                |             |                |
|  | • •   | ٠.    |   | 1.41                          | 15.000                         | :   |                |             |                |
|  | • •   | ٠.    |   | 1.60                          | 30.000                         |   |                |             |                |
|  | • •   | • •   |   |                               | 100-000                        | ļ   |                | :           |                |
|  |       |       |   |                               | TOURDOOF                       |   |                |             |                |

TABLE VII.
LIFE AND SERVICE TABLE.

Based upon the Probabilities per Cent per Annum of Withdrawal, Death, and Retirement given in Table VI.

| Males.       |                         |              |         |              | Females.                |              |         |              |     |
|--------------|-------------------------|--------------|---------|--------------|-------------------------|--------------|---------|--------------|-----|
| Age.         | Existing in<br>Service. | Withdrawals. | Deaths. | Retirements. | Existing in<br>Service. | Withdrawals. | Deaths. | Retirements. | Age |
| 15           | 100,000                 | 3,200        | 180     |              | 100,000                 | 2,400        | 130     |              | 15  |
| 16           | 96,620                  | 3,092        | 174     |              | 97,470                  | 2,534        | 127     |              | 16  |
| i7           | 93.354                  | 2,987        | 168     |              | 94.809                  | 2,654        | 123     |              | 17  |
| îs           | 90,199                  | 2,886        | 171     | 1            | 92,032                  | 2,853        | 120     |              | 18  |
| 19           | 87,142                  | 2,789        | 166     |              | 89,059                  | 3,206        | 116     |              | 19  |
| 20           | 84,187                  | 2,694        | 160     |              | 85,737                  | 3,600        | 111     |              | 20  |
| 21           | 81.333                  | 2,505        | 163     |              | 82,026                  | 4,101        | 107     |              | 21  |
| ).)          | 78,665                  | 2,328        | 157     |              | 77,818                  | 4,436        | 101     |              | 22  |
| 23           | 76,180                  | 2,164        | 152     |              | 73,281                  | 4,544        | 95      |              | 23  |
| 24           | 73,864                  | 2,017        | 155     |              | 68,642                  | 4,599        | 89      |              | 24  |
| 25           | 71,692                  | 1,878        | 151     |              | 63,954                  | 4,476        | 83      |              | 25  |
| 26           | 69,663                  | 1,750        | 146     |              | 59,395                  | 4,246        | 83      |              | 26  |
| 27           | 67,767                  | 1,626        | 149     |              | 55,066                  | 3,964        | 83      |              | 27  |
| 28           | 65,992                  | 1,518        | 145     |              | 51,019                  | 3,622        | 82      |              | 28  |
| 29           | 64,329                  | 1.414        | 148     | 1            | 47,315                  | 3,265        | 80      |              | 29  |
| 30           | 62,767                  | 1,318        | 150     |              | 43,970                  | 2,946        | 79      |              | 30  |
| 31           | 61,299                  | 1,226        | 153     |              | 40,945                  | 2,621        | 78      |              | 31  |
| $32 \dots 1$ | 59,920                  | 1,138        | 156     |              | 38,246                  | 2,371        | 76      |              | 32  |
| 33           | 58,626                  | 1,062        | 158     |              | 35,799                  | 2,077        | 75      |              | 33  |
| 34           | 57,406                  | 987          | 161     | 32           | 33,647                  | 1,850        | 74      |              | 34  |
| 35           | 56,226                  | 917          | 163     | 34           | 31,723                  | 1,618        | 73      |              | 35  |
| 36           | 55,112                  | 859          | 165     | 36           | 30,032                  | 1,412        | 72      |              | 36  |
| 37           | 54,052                  | 810          | 168     | 38           | 28,548                  | 1,199        | 71      |              | 37  |
| 38           | 53,036                  | 769          | 170     | 40 .         | 27,278                  | 1,009        | 71      | 82           | 38  |
| 39           | 52.057                  | 728          | 172     | 42           | 26,116                  | 810          | 71      | 104          | 39  |
| 10           | 51,115                  | 690          | 179     | 43           | 25,131                  | 653          | 70      | 126          | 40  |
| <b>4</b> 1   | 50,203                  | 658          | 186     | 45           | 24,282                  | 534          | 70      | 146          | 41  |
| 12           | 49,314                  | 632          | 192     | 49           | 23,532                  | 447          | 71      | 165          | 42  |
| 13           | 48,441                  | 610          | 199     | 58           | 22,849                  | 365          | 71      | 206          | 43  |
| 14           | 47,574                  | 590          | 209     | 71           | 22,207                  | 289          | 71      | 244          | 44  |
| £5           | 46,704                  | 570          | 220     | 84           | 21,603                  | 206          | 71      | 302          | 45  |
| 16           | 45,830                  | 550          | 234     | 96           | 21,024                  | 109          | 71      | 421          | 46  |
| ١٦           | 44,950                  | 530          | 247     | 108          | 20,423                  |              | 72      | 613          | 47  |
| 18           | 44,065                  | 512          | 260     | 123          | 19,738                  |              | 73      | 888          | 48  |
| 19           | 43,170                  | 4.88         | 272     | 138          | 18,777                  |              | 73      | 1,127        | 49  |
| 50           | 42,272                  | 474          | 287     | 169          | 17,577                  |              | 72      | 1,318        | 50  |
| il           | 41,342                  | 455          | 302     | 227          | 16,187                  |              | 71      | 1,457        | 51  |
| $i2 \dots$   | 40,358                  | 436          | 315     | 303          | 14,659                  |              | 69      | 1,613        | 52  |
| 53           | 39,304                  | 409          | 326     | 452          | 12,977                  |              | 65      | 1,686        | 53  |
| 54           | 38,117                  | 374          | 335     | 667          | 11,226                  |              | 61      | 1,796        | 54  |
| 55           | 36,741                  | 323          | 342     | 1,010        | 9,369                   |              | 55      | 1,874        | 55  |
| 66           | 35,066                  | 238          | 347     | 1,404        | 7,440                   |              | 48      | 1,860        | 56  |
| 7            | 33,077                  | 142          | 347     | 1,985        | 5,532                   |              | 39      | 1,382        | 57  |
| 8            | 30,603                  | 40           | 340     | 2,448        | 4,111                   |              | 29      | 1,028        | 58  |
| 59           | 27,775                  |              | 328     | 2,777        | 3,054                   |              | 21      | 764          | 59  |
| 30           | <b>24,67</b> 0          |              | 308     | 2,467        | 2,269                   | ļ l          | • •     | 2,269        | 60  |
| 31           | 21,895                  |              | 291     | 2,190        |                         |              |         |              |     |
| $32 \dots$   | 19,414                  | 1            | 274     | 1,941        |                         |              |         |              |     |
| 33           | 17,199                  |              | 258     | 2,580        |                         |              | • •     |              |     |
| i4           | 14,361                  |              | 230     | 4,308        |                         |              |         |              |     |
| 65           | 9,823                   |              |         | 9,823        |                         |              |         |              |     |

## TABLE VIII.

## ${\bf SUMMARY\ OF\ TEACHERS'\ SUPERANNUATION\ FUND\ RESULTS}.$

## VALUATION BALANCE-SHEET AS AT 31ST JANUARY, 1924.

| Liabilities.  |                   |
|---|-------------------|
| Males—  | £                 |
| Value of 344 pensions for £61,727 15s. per annum already granted 55 | 5,869             |
| $_{,,}$ 152 pensions for £2,749 3s. per annum granted to widows 2   | 7,542             |
|   | 5,199             |
|   | 5,140             |
|   | 7,259             |
|   | 4,407             |
|   | 5,817             |
| raturn of contributions on doub                                     | 0,931             |
| rature of contributions on withdrawal                               | 3.856             |
| <i>"</i>  | 3,040,020         |
| Females-  | 0,010,020         |
|   | 3.831             |
| progrestive positions for healt convice                             | *                 |
| prospective possions for future service 1 15                        |                   |
| ,, prospective death benefits—viz., return of contributions and     | 2,220             |
|   | 5 969 .           |
|   | 5.363             |
|   | 3,764             |
| <del></del>   | <b>3</b> ,085,677 |
|   | £6,125,697        |
|   | 20,120,001        |
| $Assm{e}ls$ .   | £                 |
| Accumulated funds   | 858.662           |
| Value of future contributions from males                            | 670.071           |
| ,, future contributions from females                                | 522,416           |
| ,, subsidy of £68,000 per annum now being paid                      | 1,700.000         |
|   |                   |

TABLE IX.

STATEMENT SHOWING SUBSIDIES PAID AS COMPARED WITH SUBSIDIES REQUIRED UNDER THE SYSTEM INDICATED IN THE ACT.

£6,125,697

| <b>Year</b> ended   |     | Subsidy required. Subsidy received |         | Shortage. | Shortage<br>accumulated at<br>4 Per Cent. to Enc<br>of 1927. |  |
|---------------------|-----|------------------------------------|---------|-----------|--|--|
|                     | ļ   | £                                  | £       | £         | £  |  |
| 31st March, 1906    |     |                                    | 5,000   | -(5,000)  | -(11,850)  |  |
| ,, 1907             |     | 2,000                              |         | 2,000     | 4,558  |  |
| ,, 1908             | • • | 5,000                              |         | 5,000     | 10,956   |  |
| 31st December, 1908 |     | 5,000                              |         | 5,000     | 10,534   |  |
| ,, 1909             |     | 8,000                              | 7,000   | 1,000     | 2,026  |  |
| ,, 1910             | !   | 11,000                             | 7,000   | 4,000     | 7,792  |  |
| ,, 1911             |     | 17,000                             | 7,000   | 10,000    | 18,730   |  |
| ,, 1912             |     | 17,000                             | 7,000   | 10,000    | 18,009   |  |
| ,, 1913             |     | 17,000                             | 17,000  | Ńil       |  |  |
| ,, 1914             |     | 33,000                             | 17,000  | 16,000    | 26,641   |  |
| ,, 1915             |     | 33,000                             | 17,000  | 16,000    | 25,617   |  |
| ,, 1916             |     | 33,000                             | 17,000  | 16,000    | 24,631   |  |
| ,, 1917             |     | 43,000                             | 17,000  | 26,000    | 38,486   |  |
| ,, 1918             |     | 43,000                             | 17,000  | 26,000    | 37,006   |  |
| ,, 1919             |     | 43,000                             | 43,000  | Ńil       | ,  |  |
| ,, 1920             |     | 68,000                             | 43,000  | 25,000    | 32,898   |  |
| ,, 1921             |     | 68,000                             | 43,000  | 25,000    | 31,633   |  |
| 31st January, 1923* |     | 73,667*                            | 71,583  | 2,084     | 2,536  |  |
| ,, 1924             | • • | 93,000                             | 63,833  | 29,167    | 34,121   |  |
| Totals              |     | 612,667                            | 399,416 | 213,251   | 314,324  |  |

 $<sup>\</sup>boldsymbol{*}$  Period of 13 months.

Approximate Cost of Paper .- Preparation, not given; printing (1,600 copies), £22 10s.