# CORRESPONDENCE.

To the Editor of the *Transactions of the Faculty of Actuaries.*

SIR,

*Marriage and Mortality Tables.*

In Vol. XIII, p. 282 of the *Transactions* of the Faculty, Messrs. Scrimgeour and Kellock published a " Note on the reconstruction of a given Marriage and Mortality Table to allow for an altered mortality." They illustrated their ingenious formulae by constructing a table combining the mortality rates of the Government Annuitants (1900-20) Experience with the marriage rates among bachelor Peers as given by Dr. T. B. Sprague in *J.I.A.* 21, pp. 436/7. As the marriage rates given in the Paper on " Peerage Males—Statistics of Mortality, First Marriage, etc." published in *T.F.A.*, Vol. VI, p. 373, are obtained from a period subsequent to that from which Dr. Sprague's statistics are taken, the following table derived from the Government Annuitants Experience above referred to and from the marriage rates of the later Peerage Tables may be of service.—I am,

Yours faithfully,                                                    ROBERT M. HUNTER.

6 ST. ANDREW Square,
   EDINBURGH, 18*th October* 1932.

## Marriage and Mortality Table.

| Age (x) | Living (bl)_x | Dying (bd)_x | Marrying (bm)_x | Age (x) | Living (bl)_x | Dying (bd)_x | Marrying (bm)_x |
|---|---|---|---|---|---|---|---|
| 15 | 980,370 | 2608 | — | 60 | 124,532 | 2591 | 1080 |
| 16 | 977,762 | 2747 | 98 | 61 | 120,861 | 2751 | 952 |
| 17 | 974,917 | 2876 | 195 | 62 | 117,158 | 2923 | 830 |
| 18 | 971,846 | 3002 | 776 | 63 | 113,405 | 3107 | 714 |
| 19 | 968,068 | 3123 | 2,220 | 64 | 109,584 | 3298 | 624 |
| 20 | 962,725 | 3225 | 5,940 | 65 | 105,662 | 3494 | 539 |
| 21 | 953,560 | 3288 | 22,855 | 66 | 101,629 | 3690 | 458 |
| 22 | 927,417 | 3294 | 34,791 | 67 | 97,481 | 3882 | 400 |
| 23 | 889,332 | 3257 | 41,440 | 68 | 93,199 | 4068 | 346 |
| 24 | 844,635 | 3188 | 46,164 | 69 | 88,785 | 4244 | 294 |
| 25 | 795,283 | 3085 | 48,254 | 70 | 84,247 | 4407 | 254 |
| 26 | 743,944 | 2972 | 48,617 | 71 | 79,586 | 4554 | 208 |
| 27 | 692,355 | 2848 | 47,762 | 72 | 74,824 | 4680 | 167 |
| 28 | 641,745 | 2723 | 45,698 | 73 | 69,977 | 4785 | 128 |
| 29 | 593,324 | 2596 | 43,071 | 74 | 65,064 | 4863 | 100 |
| 30 | 547,657 | 2475 | 40,110 | 75 | 60,101 | 4909 | 75 |
| 31 | 505,072 | 2355 | 37,081 | 76 | 55,117 | 4917 | 53 |
| 32 | 465,636 | 2243 | 34,010 | 77 | 50,147 | 4885 | 33 |
| 33 | 429,383 | 2136 | 30,804 | 78 | 45,229 | 4808 | 17 |
| 34 | 396,443 | 2040 | 27,555 | 79 | 40,404 | 4684 | 8 |
| 35 | 366,848 | 1958 | 24,300 | 80 | 35,712 | 4512 | 3 |
| 36 | 340,590 | 1884 | 21,319 | 81 | 31,197 | 4295 | |
| 37 | 317,387 | 1820 | 18,823 | 82 | 26,902 | 4033 | |
| 38 | 296,744 | 1765 | 16,592 | 83 | 22,869 | 3731 | |
| 39 | 278,387 | 1721 | 14,593 | 84 | 19,138 | 3395 | |
| 40 | 262,073 | 1682 | 12,867 | 85 | 15,743 | 3035 | |
| 41 | 247,524 | 1652 | 11,257 | 86 | 12,708 | 2660 | |
| 42 | 234,615 | 1631 | 9,887 | 87 | 10,048 | 2281 | |
| 43 | 223,097 | 1614 | 8,760 | 88 | 7,767 | 1889 | |
| 44 | 212,723 | 1604 | 7,760 | 89 | 5,878 | 1509 | |
| 45 | 203,359 | 1595 | 6,890 | 90 | 4,369 | 1179 | |
| 46 | 194,874 | 1594 | 6,113 | 91 | 3,190 | 904 | |
| 47 | 187,167 | 1601 | 5,436 | 92 | 2,286 | 679 | |
| 48 | 180,130 | 1617 | 4,812 | 93 | 1,607 | 500 | |
| 49 | 173,701 | 1642 | 4,285 | 94 | 1,107 | 360·7 | |
| 50 | 167,774 | 1675 | 3,796 | 95 | 746·3 | 254·1 | |
| 51 | 162,303 | 1719 | 3,355 | 96 | 492·2 | 174·9 | |
| 52 | 157,229 | 1772 | 2,973 | 97 | 317·3 | 117·5 | |
| 53 | 152,484 | 1837 | 2,644 | 98 | 199·8 | 78·9 | |
| 54 | 148,003 | 1910 | 2,363 | 99 | 120·9 | 53·1 | |
| 55 | 143,730 | 1994 | 2,069 | 100 | 67·8 | 34·7 | |
| 56 | 139,667 | 2088 | 1,832 | 101 | 33·1 | 20·6 | |
| 57 | 135,747 | 2194 | 1,620 | 102 | 12·5 | 9·8 | |
| 58 | 131,933 | 2312 | 1,418 | 103 | 2·7 | 2·7 | |
| 59 | 128,203 | 2445 | 1,226 | | | | |