Section XVI.—South African Life Table No. 2.

185. **Previous South African Life Tables.**—The only Life Tables which are known to have been prepared and published in relation to South African conditions are those referred to hereunder.

Mr. C. B. Elliott made an investigation of the mortality experience of the South African Mutual Life Assurance Society for the period 1845 to 1879, but the numbers under observation were small, and Mr. Elliott considered that too much reliance should not be placed upon the results. Mr. Charles Gordon constructed a Life Table for the same Society based on fifty year's experience (1845 to 1895), graduating it by a combination of Woolhouse's and Ackland's methods. A Life Table for the European population of Johannesburg was constructed by the late Dr. G. D. Maynard, based on the 1910 Municipal Census, and two years' records of deaths. Mr. C. W. Kops, lecturer at the University of the Witwatersrand constructed a Life Table for European males based on the 1918 and 1921 Population Censuses and the deaths during the three years 1919–1921. This table was published in the *Transactions of the Royal Society of South Africa*, Vol. XII, Part 4. South African Life Table No. 1 for European males and females was constructed by the Census Office from the Population Census of 1921 and the deaths during the three years 1920–1922, and published in the Final Report of that Census.

Portions of these Tables are shown below compared with S.A. Life Table No. 2. The fact that is immediately evident is the continuous improvement. The South African Mutual Life Table, which may be regarded as representing healthy males for a fifty year period from 1845 onwards, is not as favourable as Dr. Maynard's for Johannesburg for all males for the complete expectation of life, while Mr. Kops' table and the S.A. Life Tables No. 1 and 2 are each progressively somewhat more favourable. This accords generally with the experience of other countries.

Mr. George King made an investigation on behalf of the Southern Life Association of Africa some years ago on their mortality experience between 1891 and 1912, but a mortality table was not constructed.

Mr. D. Spence Fraser, F.F.A., A.I.A., Actuarial Adviser to the Union Government, has been kind enough to furnish the Census Office with the mortality table he constructed from the mortality experience of pensioners of the South African Railways and Harbours for the years 1911–1923. The experience refers to 1,519 pensions granted on attaining the age limit for pension purposes and to 827 pensions granted on account of retrenchment. Pensions granted on account of ill health or accident were not included.

The following information will be of interest if read in connection with the comparative tables given elsewhere :—

Age.	50	60	70
$\mathring{e}_x$	21·79	14·66	9·61
$10p_x$	·8479	·6571	·4322

It will be seen that the expectation of life is slightly lower at the ages of 50 and 60, but slightly higher at the age of 70 than South African Table No. 1, and that the probability of living 10 years is higher at the age of 50, lower at the age of 60 and practically identical at the age of 70.

It must be remembered that the period covered is on the whole earlier than South African Table No. 1. Moreover, Mr. Spence Fraser states that the mortality tended to be lower towards the end than at the beginning of the period, and that further investigations since 1923 tended to show a rather lower mortality.

186. **South African Life Table No. 2.**—The Life Table published in this section has been constructed throughout by the same methods as those employed in the case of Life Table No. 1 except in the case of very old ages as mentioned below.

As to the period of the table, there were two alternatives. Either it might be based as was Table No. 1 on a three years mortality experience centred on the Population Census of 1926, or on a five years mortality experience based on the mean between the two Censuses of 1921 and 1926. It must be admitted, that whereas a Life Table based on a ten years experience is somewhat out of date by the time it is published, the same criticism is not valid where Life Tables can be constructed for intervals of five years between two Population Censuses. A series of tables constructed as Table No. 1 would utilize three years mortality and omit two in every five years, while the latter would utilize the mortality experience of every year and would represent a period whose mid-point would be only thirty months earlier than the former. The fact, however, that the change in the Population Census questionaire with regard to age had effected a considerable decrease in the number of misstatements of age in 1926 made it seem advisable to avoid utilizing the figures for 1921 ; moreover a direct comparison with Life Table No. 1 is obtained more readily by utilizing a similar period and method ; so that on the whole it was thought wiser to construct a table centred on 1926 though the question of the advisability of in future constructing tables covering a five years period between two Censuses is one that will no doubt receive due consideration in the future.

With certain differences the methods employed by Mr. George King in preparing Life Tables No. 8 for England and Wales were followed in constructing South African Life Table No. 1. The increasing interest shown in his method of osculatory interpolation, the closeness with which it follows the given data and its general simplicity has justified that choice ; so the same method was chosen in constructing Life Table No. 2.

It was assumed that at the date of the Census, the 4th May, 1926, the days of births of persons of each year of age from one year upwards were evenly distributed through that year. With that assumption a calculation from vital and migration statistics was made and adjusted figures for the population living on the 30th June 1926 were obtained. The assumption of a uniform geometrical increase in each age group assumed by Mr. King, was not thought to be suitable for South Africa where there is known to be an uneven distribution of population, and for this reason his method was not followed in obtaining the figures for the mean population, although in this short period it did not involve any great discrepancy.

There is a tendency in every Census for some persons to make incorrect statements of age, and as far as this tendency is confined to an inclination for round numbers (such as figures terminating in 0 and to a less degree in 8, 2 and 5), these inaccuracies can be largely smoothed out by adopting a satisfactory quinquennial grouping and then redistributing the figures in each group in due proportion. The same tendency has been observed in the case of the ages rendered in returns of death. It would seem therefore that the same psychological cause operated both where persons are asked to give their own ages and where persons are required to declare the ages of deceased people. It would appear that these misstatements were on the whole due to ignorance of the exact year of age. A person might say his age was about 50 or about 60 and return it as 50 or 60, or he might say it was between 50 and 60 and return it as 55, or again he might say he was getting on to 60 or was a bit over 60 and might return it as 58 or 62.

Where, however, there are deliberate misstatements of age all tending to be understatements in one period of life and overstatements in another no mathematical formula however ingenious will remove the error, unless, of course, the degree of misstatement is known. All that can be hoped is that greater accuracy will result from the spread of the knowledge that the information is not asked for out of idle curiosity but is utilized for scientific calculations of national interest. It is not known to what extent

deliberate misstatements occur that are likely to give some bias to the calculations but arrangements are being made to test this in the next Population Census.

From a careful examination of the Population and mortality returns it appeared best to group ages into quinquennial groups on the basis either of those whose final digit ended in 4–8 and 9–3 or else in 2–6 and 7–1. There seemed to be little to chose between the two ; at certain periods of life one appeared to be slightly better than the other. As, however, the grouping of 4–8, 9–3 was utilized in the construction of Life Table No. 1, it was decided to retain it for Life Table No. 2.

The mean population and the deaths for three years 1925 to 1927 were arranged in quinquennial groups for the age periods 4 to 8, 9 to 13, 14 to 18, etc., as far as 99 to 103. The value for m_x, the central death rate (i.e. deaths divided by population) for the central age of each group from 11 years to 96 was obtained rom the formula $u_{x+2} = \cdot 2w_x - \cdot 008\,\Delta^2 w_{x-5}$ where u_{x+2} is the population or deaths at the age $(x+2)$, and w_x is the sum of five values of the population or deaths for ages x to $(x+4)$. The rate of mortality, or the probability of dying in the course of a year, i.e. q_x, was calculated by the formula $q_x = \dfrac{2m_x}{2+m_x}$ for each sex for the ages 11, 16, 21, up to 96. The intervening values of the rate of mortality were obtained from functions of Log $(q_x + \cdot 1)$ by Osculatory Interpolation by means of curves of the third order, which had the same first differential coefficient at their points of contact at the ages 16, 21, 26, etc.

The formulae were :—

$$\delta u_1 = \cdot 2\,\Delta u_0 + \cdot 12\,\Delta^2 u_0 - \cdot 016\,\Delta^3 u_0$$
$$\delta^2 u_1 = \cdot 04\,\Delta^2 u_0 - \cdot 016\,\Delta^3 u_0$$
$$\delta^3 u_1 = \cdot 024\,\Delta^3 u_0$$

where the symbol δ is used for annual and Δ for quinquennial differences.

This gave a complete table for q_x from 16 to 91.

In preparing Life Table No. 1 various methods were tried for completing the table at the higher ages by means of a fourth constant difference between five values of functions of p_x and q_x without success owing to the fact that p_x tended to increase after a certain age. Finally the curve for p_x was drawn and graphically completed and the functions for the higher ages read off to three places of decimals. This, however, involved an assumption that q_x would approximate to unity before the age of 110 for which there is no proof. The same difficulty was experienced in constructing Life Table No. 2. After a considerable amount of examination of the different functions it was discovered that

$\dfrac{\log p_{81}}{\log p_{76}}$ was approximately equal to $\sqrt[3]{\dfrac{\log p_{91}}{\log p_{76}}}$

It was assumed that $\dfrac{\log p_{x+1}}{\log p_x} = \left(\dfrac{\log p_{91}}{\log p_{76}}\right)^{\frac{1}{15}}$ for each value of x from 91 upwards and the table for the higher ages was completed in this manner.

It is extremely difficult in a small community such as South Africa to be certain whether the few persons that attain great age in the first place give their ages correctly, and secondly whether it is merely a fortuitous sample not representing a normal distribution. The end of the table can therefore only be regarded as a reasonable approximation. Arrangements have, however, been made with the Old Age Pensions Office to secure full details of Old Age Pensioners and it is hoped when information has accumulated for a few years to make a detailed examination of the returns and possibly to construct a Life Table for persons over 65. As Old Age Pensioners are approximately one third of the population over 65 it may be possible to fit their probability curve to the next South African Life Table. At any rate it will throw considerable light on the subject.

An examination of the ages of young children was made, comparing the statistics derived from records of births and deaths with the 1926 Census figures brought down to the end of June 1926. The following table gives the results :—

Number of Children Living on the 30th June, 1926.

Age.	Male.			Female.		
	Births Minus Deaths.	Adjusted Census.	Differences.	Births Minus Deaths.	Adjusted Census.	Differences.
Under one year..	21,757	21,067	690	20,548	20,062	486
1–2.....	19,993	20,319	− 326	19,070	19,171	− 101
2–3.....	19,814	19,725	89	18,851	19,079	228
3–4.....	19,178	20,035	− 857	18,606	19,493	− 887
4–5.....	19,757	20,472	− 715	19,014	19,707	− 693

A very marked improvement took place in the declaration of ages of young children in the 1926 Census as compared with the 1921 Census, the sum of the differences in the above table being less than a quarter of the sum of the differences in a similar table prepared for the 1921 Census. This is due to the great improvement in the statement of ages that occurred on account of date of birth being asked for in addition to age. The net difference amounts to about one per cent. and is difficult to explain. It is not due to immigration as shown by the migration returns. It is possible that some births were not registered or there may be a slight tendency to understate ages of children about 5. This matter will be investigated in the light of the 1931 Census.

The number taken into account at the age exactly 0 was the sum of the births from the second half of 1924 to the end of the first half of 1927 ; the number taken into account at the age exactly 1 the sum of the births from the second half of 1923 to the end of the first half of 1926 less the sum of the deaths under one year of age in the years 1924 to 1926 ; the number taken into account at the age exactly 2 the sums of the births from the second half of 1922 to the first half of 1925 less the sum of the deaths under one year of age in the years 1923 to 1925 and the sum of the deaths age 1 and under 2 in the years 1924 to 1926, and so on for the numbers aged exactly 3, 4, and 5 years.

The rates of mortality derived from the records of births and deaths were obtained by dividing the deaths in each year of age 0 to 1, 1 to 2, etc., up to 5 to 6 in the years 1925 to 1927 by the numbers living as found above.

The following table gives the results :—

Rates of Mortality of Children.

Age.	Male.			Female.		
	Numbers Living.	Deaths.	Rate of Mortality.	Numbers Living.	Deaths.	Rate of Mortality.
0.....	66,848	4,976	·0744375	63,240	3,969	·0627609
1.....	61,649	1,153	·0187027	58,593	1,077	·0183810
2.....	59,101	435	·0073603	56,625	436	·0076998
3.....	58,873	277	·0047050	56,542	234	·0041385
4.....	58,623	203	·0034628	56,481	194	·0034348
5.....	57,886	169	·0029195	55,333	131	·0023675

The column q_x had then been completed for age 0 to 5 for 11 and for 16 onwards, and the remainder was constructed by interpolation by means of a Lagrange fourth difference formula, the values for the five years 4, 5, 11, 16 and 17 being utilized. While this method produced satisfactory results for the males it did not for the females, owing to the fact that the rates from 3 to 5 are not in the same even progression as in the case of males. It was therefore decided to use a Lagrange third difference formula utilizing the four years 5, 11, 16 and 17 for the females which produced a curve closely fitting the given data.

The Lagrange formula is of the following form :—

$$q_x = q_a \frac{(x-b)(x-c)\ \ldots\ (x-n)}{(a-b)(a-c)\ \ldots\ (a-n)} + q_b \frac{(x-a)(x-c)\ \ldots\ (x-n)}{(b-a)(b-c)\ \ldots\ (b-n)} + \ldots + q_n \frac{(x-a)(x-b)(x-c)\ \ldots}{(n-a)(n-b)(n-c)\ \ldots}$$

Where four orders of differences are taken $q_a = q_4$, $q_b = q_5$, $q_c = q_{11}$, $q_d = q_{16}$ and $q_n = q_{17}$, and where three orders of differences are taken $q_a = q_5$, $q_b = q_{11}$, $q_c = q_{16}$ and $q_n = q_{17}$.

The closeness with which the life tables are in accord with the data can be seen in the following statement comparing the expected with the actual deaths for different age groups. As the calculations for the ages 0 to 5 were made direct from the vital statistics there are no differences in their cases.

COMPARISON OF ACTUAL WITH EXPECTED DEATHS.

Age Group.	Male.			Female.		
	Expected Deaths Less Actual Deaths.		Accumulated Deviation.	Expected Deaths Less Actual Deaths.		Accumulated Deviation.
	Positive.	Negative.		Positive.	Negative.	
0–3	—	—	—	—	—	—
4–8	8	—	+ 8	—	7	− 7
9–13	—	2	+ 6	—	—	− 7
14–18	8	—	+14	—	1	− 8
19–23	—	15	− 1	—	2	−10
24–28	2	—	+ 1	2	—	− 8
29–33	10	—	+11	—	1	− 9
34–38	—	11	—	—	2	−11
39–43	8	—	+ 8	—	2	−13
44–48	—	8	—	2	—	−11
49–53	7	—	+ 7	2	—	− 9
54–58	—	4	+ 3	—	8	−17
59–63	—	—	+ 3	11	—	− 6
64–68	—	3	—	—	15	−21
69–73	5	—	+ 5	13	—	− 8
74–78	—	10	− 5	—	16	−24
79–83	8	—	+ 3	13	—	−11
84–88	—	7	− 4	—	6	−17
89–93	3	—	− 1	4	—	−13
94–98	9	—	+ 8	12	—	− 1
99+	—	8	—	4	—	+ 3
	68	68	—	63	60	+ 3

The total deviation in the case of males is nil and in the case of females 3. The differences are in no case considerable so that the tables may be considered to be satisfactory. It would hardly be possible to obtain a closer agreement with the data.

The function q_x, the probability of dying within a year after attaining the age x, having been obtained for every age for both sexes, all the other columns of the Life Table were calculated from it. For general convenience these are explained. The function p_x, the probability of living one year from age x, together with q_x are equal to unity. The column p_x was, therefore, obtained by subtracting each figure in the column q_x from unity.

The column l_x gives the number surviving according to the Life Table to the exact age x. The first value of the table is called the radix, and for the South African Life Table the radix is 1,000,000 at the age 0. The column is obtained by a continued multiplication by the value of p_x. The column d_x, the number dying in the course of a year of those that entered it, is formed from the differences between each pair of figures in the first column. The column L_x is the number of years lived in the year of age x to $(x+1)$, and, therefore, represents the mean population between ages x and $(x+1)$. It is assumed that except for the year 0 to 1 the deaths that occur in each year of life are uniformly distributed over the year of age. In the case of the first year of life more deaths occur in the first few months than in the latter part.

In the three years 1925 to 1927, 4,976 male and 3,969 female children died under the age of one year, and of these, 3,642 male and 2,858 female children died under the age of six months, that is 73·191318 per cent. and 72·008062 per cent. respectively. For the construction of the L_x table it may, therefore, be assumed that out of each million male children born 54,481 die before the age of six months, and, out of each million female children born 45,192 die before the age of six months. The first figures in the column are thus 945,519 and 954,808 respectively, and the other figures are the mid-points between each two consecutive values of the function l_x.

The column T_x is the population of the Life Table above the moment of age x. This is obtained by the continued summation of L_x.

The column $\mathring{e}_x$ is the complete expectation of life, or the total future lifetime which on the average will be lived by a person aged exactly x. It is obtained by dividing each figure in the column T_x by the corresponding figures in the column l_x.

Comparative tables are given for all the South African Life Tables and for New Zealand, Australia, England and Wales, and the Irish Free State, showing at certain ages (*a*) the complete expectation of life (*b*) the rate of mortality or the number who may be expected to die within a year of 1,000 attaining a particular age, (*c*) the number of survivors of 1,000,000 born and (*d*) the probability of surviving 10 years.

It will be seen at once that the improvement in the South African tables is very largely due to the marked decrease in the mortality rates of young children which has been a conspicuous feature in recent years. The death rate of children under one year was 17·7 per cent. higher in Life Table No. 1 than in No. 2 and the crude infantile mortality rate in 1910 and 1911 was 38·4 per cent. higher than in 1926 and 1927. The mortality of young children in Mr. Kops' table is the one weak point in an otherwise admirable calculation. He appears to have assumed that the death rates in the first and second six months of life were equal and to have adjusted his crude rates too drastically. His crude mortality rate for males at birth was 93·18 as compared with 87·84 in Life Table No. 1. As the mortality was somewhat higher in 1919 to 1921 than in 1920 to 1922, the unadjusted rate is comparable rather than his adjusted rate of 78·38. The death rate of young children in Johannesburg in 1908 to 1910 was probably higher than for South Africa as a whole at that date, so that comparison cannot readily be made with Dr. Maynard's table for this period of life. The expectation of life at 20 has increased in the five years period from 45·26 to 46·27 in the case of males, and from 48·15 to 49·34 in the case of females, whereas at birth the expectation of life increased during the same period by over two years.

In comparing the South African Life Table with other countries it will be found that it lies between that for Australia and that for England and Wales. At birth the expectation of life is about two years less than Australia and two years more than England and Wales. It follows this intermediate course until about 60 when the expectation of life is slightly more favourable than Australia and continues so for the older ages. New Zealand which has probably the best expectation in the world has an expectation at birth of about five years in the case of males and four years in the case of females greater than that for South Africa.

At the same time when making this comparison with other countries, it must be remembered that one is comparing the European population of the Union with the entire population of England and Wales. It is probable that the South African European population is living on the average at a higher standard than the average population of England and Wales. This factor should therefore be borne in mind.

187. **Rates of Mortality of Women by Marital Condition.**—An experimental calculation of q_x for females according to marital condition was made by the same method with which the Life Table for all females was constructed. A close examination of the pivotal values, however, revealed the fact that the data at certain ages was too small to give reliable results. For example an increase of one more death per annum at each year of age of unmarried women between 64 and 68 would have increased the mortality rate by 20 per cent. The rates, therefore, did not always increase step by step as the age increased. A table showing a portion of the calculated rates is given below but even this must be used with caution. A few broad conclusions appear however, to be established. During the period at which women most frequently marry, viz. : 19 to 28, the rate of mortality for married women is considerably higher than that for unmarried. The mortality rate for widows (with whom are included divorced persons) is higher than that for married women. The slightly lower rate at the age of 46 and the disproportionally high rate at 51 (in the case of widows) is probably due to the paucity of the material. The somewhat sudden jump in the rate for unmarried females between 26 and 31 might possibly be due to a tendency for unmarried women belonging to the latter group to understate their ages. There is, however, no available information on this matter. It was not thought advisable to carry the calculations beyond the age of 76, nor worth while to interpolate the intermediate values. It would have been possible by taking 10 year instead of 5 year periods to have produced graduated tables but they would have lost their direct relation to Life Table No. 2. In these circumstances it was decided not to carry the investigation any further, but as calculations of this nature have never hitherto been made the partial results are sufficiently interesting to be made public.

SOUTH AFRICAN LIFE TABLE No. 2.

FEMALE MORTALITY ($1{,}000\ q_x$) BY MARITAL CONDITION.

Age.	Never Married.	Married.	Widowed and Divorced.	Total Females.
21	2·4696	3·3822	—	2·7366
26	2·9553	3·5294	—	3·3884
31	4·4197	4·1020	*	4·1328
36	4·6001	4·9446	*	4·8967
41	*	5·7279	5·7789	5·5853
46	*	6·6516	6·1199	6·6165
51	*	9·0896	11·1379	9·3029
56	*	13·6134	13·9448	13·7380
61	*	18·4764	20·8081	18·7350
66	*	29·4120	35·2230	31·8075
71	*	43·3908	48·9821	46·9407
76	*	74·4429	80·4015	78·7101

* Original data too small.

188. **Values of Annuities and Single and Annual Premiums.**—Values of an annuity of 1, (a_x), the amounts to secure 1 at death, (A_x) and the annual payments to secure 1 at death, (P_x) based on Life Table No. 2 have been calculated for both sexes for each year of age at the rates 4, $4\frac{1}{2}$ and 5 per cent. The only previous calculation of this description published was contained in the South African Mutual Mortality Tables referred to above. In that publication the value of an annuity of 1 (a_x) was calculated for each age from 15 to 96. As was to be expected the figures are somewhat lower all through than those calculated from South African Table No. 2.

The tables are published in their entirety, but the same qualification with regard to figures at extreme old ages referred to earlier in this report necessarily applies to these calculations as well as to the Life Table itself from which they have been derived.

TABLE CLXI (*a*)—SOUTH AFRICAN LIFE TABLES No. 2.

MALES.

Age. (x)	l_x	d_x	p_x	q_x	L_x	T_x	$\mathring{e}_x$	Age (x)
0	1,000,000	74,437	·9255625	·0744375	945,519	57,776,195	57·78	0
1	925,563	17,311	·9812973	·0187027	916,908	56,830,676	61·40	1
2	908,252	6,685	·9926397	·0073603	904,909	55,913,768	61·56	2
3	901,567	4,242	·9952950	·0047050	899,446	55,008,859	61·01	3
4	897,325	3,107	·9965372	·0034628	895,772	54,109,413	60·30	4
5	894,218	2,611	·9970805	·0029195	892,912	53,213,641	59·51	5
6	891,607	2,238	·9974902	·0025098	890,488	52,320,729	58·68	6
7	889,369	1,966	·9977898	·0022102	888,386	51,430,241	57·83	7
8	887,403	1,775	·9979996	·0020004	886,516	50,541,855	56·95	8
9	885,628	1,650	·9981364	·0018636	884,803	49,655,339	56·07	9
10	883,978	1,579	·9982137	·0017863	883,188	48,770,536	55·17	10
11	882,399	1,552	·9982417	·0017583	881,623	47,887,348	54·27	11
12	880,847	1,562	·9982271	·0017729	880,066	47,005,725	53·36	12
13	879,285	1,606	·9981732	·0018268	878,482	46,125,659	52·46	13
14	877,679	1,685	·9980803	·0019197	876,837	45,247,177	51·55	14
15	875,994	1,800	·9979448	·0020552	875,094	44,370,340	50·65	15
16	874,194	1,958	·9977603	·0022397	873,215	43,495,246	49·75	16
17	872,236	2,166	·9975166	·0024834	871,153	42,622,031	48·87	17
18	870,070	2,436	·9971999	·0028001	868,852	41,750,878	47·99	18
19	867,634	2,723	·9968619	·0031381	866,272	40,882,026	47·12	19
20	864,911	2,980	·9965551	·0034449	863,421	40,015,754	46·27	20
21	861,931	3,161	·9963324	·0036676	860,351	39,152,333	45·42	21
22	858,770	3,247	·9962195	·0037805	857,146	38,291,982	44·59	22
23	855,523	3,267	·9961814	·0038186	853,890	37,434,836	43·76	23
24	852,256	3,255	·9961807	·0038193	850,628	36,580,946	42·92	24
25	849,001	3,243	·9961799	·0038201	847,380	35,730,318	42·09	25
26	845,758	3,264	·9961412	·0038588	844,126	34,882,938	41·24	26
27	842,494	3,299	·9960840	·0039160	840,844	34,038,812	40·40	27
28	839,195	3,329	·9960335	·0039665	837,531	33,197,968	39·56	28
29	835,866	3,376	·9959605	·0040395	834,178	32,360,437	38·71	29
30	832,490	3,467	·9958356	·0041644	830,756	31,526,259	37·87	30
31	829,023	3,623	·9956296	·0043704	827,212	30,695,503	37·03	31
32	825,400	3,879	·9952999	·0047001	823,460	29,868,291	36·19	32
33	821,521	4,219	·9948650	·0051350	819,412	29,044,831	35·35	33
34	817,302	4,587	·9943871	·0056129	815,008	28,225,419	34·53	34
35	812,715	4,934	·9939295	·0060705	810,248	27,410,411	33·73	35
36	807,781	5,205	·9935563	·0064437	805,179	26,600,163	32·93	36
37	802,576	5,368	·9933121	·0066879	799,892	25,794,984	32·14	37
38	797,208	5,457	·9931551	·0068449	794,479	24,995,092	31·35	38
39	791,751	5,526	·9930200	·0069800	788,988	24,200,613	30·57	39
40	786,225	5,629	·9928411	·0071589	783,411	23,411,625	29·78	40
41	780,596	5,813	·9925525	·0074475	777,689	22,628,214	28·99	41
42	774,783	6,098	·9921290	·0078710	771,734	21,850,525	28·20	42
43	768,685	6,447	·9916132	·0083868	765,462	21,078,791	27·42	43
44	762,238	6,829	·9910407	·0089593	758,823	20,313,329	26·65	44
45	755,409	7,216	·9904476	·0095524	751,801	19,554,506	25·89	45
46	748,193	7,579	·9898705	·0101295	744,404	18,802,705	25·13	46
47	740,614	7,889	·9893482	·0106518	736,669	18,058,301	24·38	47
48	732,725	8,165	·9888565	·0111435	728,643	17,321,632	23·64	48
49	724,560	8,450	·9883378	·0116622	720,335	16,592,989	22·90	49
50	716,110	8,784	·9877336	·0122664	711,718	15,872,654	22·17	50
51	707,326	9,207	·9869837	·0130163	702,722	15,160,936	21·43	51
52	698,119	9,724	·9860715	·0139285	693,257	14,458,214	20·71	42
53	688,395	10,303	·9850330	·0149670	683,244	13,764,957	20·00	53
54	678,092	10,927	·9838860	·0161140	672,628	13,081,713	19·29	54
55	667,165	11,576	·9826486	·0173514	661,377	12,409,085	18·60	55
56	655,589	12,233	·9813398	·0186602	649,473	11,747,708	17·92	56
57	643,356	12,889	·9799657	·0200343	636,911	11,098,235	17·25	57
58	630,467	13,459	·9785096	·0214904	623,693	10,461,324	16·59	58
59	616,918	14,216	·9769564	·0230436	609,810	9,837,631	15·95	59
60	602,702	14,893	·9752900	·0247100	595,255	9,227,821	15·31	60
61	587,809	15,581	·9734934	·0265066	580,019	8,632,566	14·69	61
62	572,228	16,243	·9716144	·0283856	564,106	8,052,547	14·07	62
63	555,985	16,869	·9696589	·0303411	547,551	7,488,441	13·47	63
64	539,116	17,498	·9675429	·0324571	530,367	6,940,890	12·87	64
65	521,618	18,165	·9651765	·0348235	512,535	6,410,523	12·29	65
66	503,453	18,898	·9624630	·0375370	494,004	5,897,988	11·72	66
67	484,555	19,656	·9594345	·0405655	474,727	5,403,984	11·15	67
68	464,899	20,394	·9561319	·0438681	454,702	4,929,257	10·60	68
69	444,505	21,133	·9524581	·0475419	433,939	4,474,555	10·07	69

TABLE CLXI (*a*)—SOUTH AFRICAN LIFE TABLES No. 2—(*Continued*).

MALES.

Age (x)	l_x	d_x	p_x	q_x	L_x	T_x	$\mathring{e}_x$	Age (x)
70	423,372	21,886	·9483057	·0516943	412,429	4,040,616	9·54	70
71	401,486	22,662	·9435540	·0564460	390,155	3,628,187	9·04	71
72	378,824	23,510	·9379394	·0620606	367,069	3,238,032	8·55	72
73	355,314	24,360	·9314420	·0685580	343,134	2,870,963	8·08	73
74	330,954	25,046	·9243227	·0756773	318,431	2,527,829	7·64	74
75	305,908	25,421	·9169000	·0831000	293,197	2,209,398	7·22	75
76	280,487	25,382	·9095090	·0904910	267,796	1,916,201	6·83	76
77	255,105	24,861	·9025461	·0974539	242,675	1,648,405	6·46	77
78	230,244	23,992	·8957973	·1042027	218,248	1,405,730	6·11	78
79	206,252	22,943	·8887640	·1112360	194,780	1,187,482	5·76	79
80	183,309	21,837	·8808752	·1191248	172,391	992,702	5·42	80
81	161,472	20,754	·8714728	·1285272	151,095	820,311	5·08	81
82	140,718	19,741	·8597096	·1402904	130,847	669,216	4·76	82
83	120,977	18,667	·8456982	·1543018	111,644	538,369	4·45	83
84	102,310	17,365	·8302673	·1697327	93,627	426,725	4·17	84
85	84,945	15,759	·8144745	·1855255	77,066	333,098	3·92	85
86	69,186	13,862	·7996419	·2003581	62,255	256,032	3·70	86
87	55,324	11,839	·7860004	·2139996	49,404	193,777	3·50	87
88	43,485	9,877	·7728529	·2271471	38,547	144,373	3·32	88
89	33,608	8,055	·7603250	·2396750	29,580	105,826	3·15	89
90	25,553	6,425	·7485424	·2514576	22,341	76,246	2·98	90
91	19,128	5,019	·7376292	·2623708	16,618	53,905	2·82	91
92	14,109	3,955	·7197095	·2802905	12,132	37,287	2·64	92
93	10,154	3,038	·7008306	·2991694	8,635	25,155	2·48	93
94	7,116	2,270	·6809825	·3190175	5,981	16,520	2·32	94
95	4,846	1,647	·6601621	·3398379	4,022	10,539	2·17	95
96	3,199	1,157	·6383741	·3616259	2,621	6,517	2·04	96
97	2,042	785	·6156333	·3843667	1,649	3,896	1·91	97
98	1,257	513	·5919645	·4080355	1,001	2,247	1·79	98
99	744	322	·5674052	·4325948	583	1,246	1·67	99
100	422	193	·5420055	·4579945	325	663	1·57	100
101	229	111	·5158301	·4841699	174	338	1·48	101
102	118	60	·4889590	·5110410	88	164	1·38	102
103	58	31	·4614879	·5385121	42	76	1·30	103
104	27	15	·4335295	·5664705	20	34	1·22	104
105	12	7	·4052132	·5947868	8	14	1·14	105
106	5	3	·3766845	·6233155	4	6	1·03	106
107	2	1	·3481045	·6518955	1	2	·87	107
108	1	1	·3196479	·6803521	1	1	·50	108
109	—	—	·2915016	7084984	—	—	—	109

TABLE CLXI (*b*)—SOUTH AFRICAN LIFE TABLES No. 2.

FEMALES.

Age (*x*)	l_x	d_x	p_x	q_x	L_x	T_x	$\mathring{e}_x$	Age (*x*)
0	1,000,000	62,761	·9372391	·0627609	954,808	61,483,787	61·48	0
1	937,239	17,227	·9816190	·0183810	928,626	60,528,979	64·58	1
2	920,012	7,084	·9923002	·0076998	916,470	59,600,353	64·78	2
3	912,928	3,778	·9958615	·0041385	911,039	58,683,883	64·28	3
4	909,150	3,123	·9965652	·0034348	907,588	57,772,844	63·55	4
5	906,027	2,145	·9976325	·0023675	904,955	56,865,256	62·76	5
6	903,882	1,831	·9979742	·0020258	902,966	55,960,301	61·91	6
7	902,051	1,602	·9982238	·0017762	901,250	55,057,335	61·04	7
8	900,449	1,449	·9983913	·0016087	899,725	54,156,085	60·14	8
9	899,000	1,361	·9984864	·0015136	898,319	53,256,360	59·24	9
10	897,639	1,329	·9985191	·0014809	896,975	52,358,041	58·33	10
11	896,310	1,345	·9984991	·0015009	895,637	51,461,066	57·41	11
12	894,965	1,399	·9984363	·0015637	894,266	50,565,429	56·50	12
13	893,566	1,483	·9983405	·0016595	892,824	49,671,163	55·59	13
14	892,083	1,586	·9982216	·0017784	891,290	48,778,339	54·68	14
15	890,497	1,701	·9980894	·0019106	889,647	47,887,049	53·78	15
16	888,796	1,819	·9979537	·0020463	887,886	46,997,402	52·88	16
17	886,977	1,930	·9978244	·0021756	886,012	46,109,516	51·99	17
18	885,047	2,048	·9976863	·0023137	884,023	45,223,504	51·10	18
19	882,999	2,169	·9975438	·0024562	881,915	44,339,481	50·21	19
20	880,830	2,289	·9974014	·0025986	879,685	43,457,566	49·34	20
21	878,541	2,404	·9972634	·0027366	877,339	42,577,881	48·46	21
22	876,137	2,513	·9971320	·0028680	874,881	41,700,542	47·60	22
23	873,624	2,617	·9970043	·0029957	872,315	40,825,661	46·73	23
24	871,007	2,720	·9968771	·0031229	869,647	39,953,346	45·87	24
25	868,287	2,824	·9967472	·0032528	866,875	39,083,699	45·01	25
26	865,463	2,933	·9966116	·0033884	863,997	38,216,824	44·16	26
27	862,530	3,046	·9964690	·0035310	861,007	37,352,827	43·31	27
28	859,484	3,162	·9963215	·0036785	857,903	36,491,820	42·46	28
29	856,322	3,279	·9961708	·0038292	854,682	35,633,917	41·61	29
30	853,043	3,396	·9960188	·0039812	851,345	34,779,235	40·77	30
31	849,647	3,511	·9958672	·0041328	847,892	33,927,890	39·93	31
32	846,136	3,626	·9957145	·0042855	844,323	33,079,998	39·10	32
33	842,510	3,741	·9955595	·0044405	840,639	32,235,675	38·26	33
34	838,769	3,855	·9954044	·0045956	836,842	31,395,036	37·43	34
35	834,914	3,965	·9952516	·0047484	832,931	30,558,194	36·60	35
36	830,949	4,069	·9951033	·0048967	828,915	29,725,263	35·77	36
37	826,880	4,162	·9949662	·0050338	824,799	28,896,348	34·95	37
38	822,718	4,246	·9948386	·0051614	820,595	28,071,549	34·12	38
39	818,472	4,329	·9947109	·0052891	816,307	27,250,954	33·29	39
40	814,143	4,418	·9945729	·0054271	811,934	26,434,647	32·47	40
41	809,725	4,523	·9944147	·0055853	807,464	25,622,713	31·64	41
42	805,202	4,625	·9942564	·0057436	802,889	24,815,249	30·82	42
43	800,577	4,720	·9941048	·0058952	798,217	24,012,360	29·99	43
44	795,857	4,831	·9939293	·0060707	793,442	23,214,143	29·17	44
45	791,026	4,984	·9936992	·0063008	788,534	22,420,701	28·34	45
46	786,042	5,201	·9933835	·0066165	783,441	21,632,167	27·52	46
47	780,841	5,481	·9929810	·0070190	778,101	20,848,726	26·70	47
48	775,360	5,806	·9925113	·0074887	772,457	20,070,625	25·89	48
49	769,554	6,176	·9919743	·0080257	766,466	19,298,168	25·08	49
50	763,378	6,588	·9913697	·0086303	760,084	18,531,702	24·28	50
51	756,790	7,040	·9906971	·0093029	753,270	17,771,618	23·48	51
52	749,750	7,546	·9899348	·0100652	745,977	17,018,348	22·70	52
53	742,204	8,105	·9890804	·0109196	738,151	16,272,371	21·92	53
54	734,099	8,689	·9881632	·0118368	729,755	15,534,220	21·16	54
55	725,410	9,276	·9872133	·0127867	720,772	14,804,465	20·41	55
56	716,134	9,838	·9862620	·0137380	711,215	14,083,693	19·67	56
57	706,296	10,300	·9854162	·0145838	701,146	13,372,478	18·93	57
58	695,996	10,679	·9846565	·0153435	690,656	12,671,332	18·21	58
59	685,317	11,087	·9838228	·0161772	679,774	11,980,676	17·48	59
60	674,230	11,631	·9827498	·0172502	668,414	11,300,902	16·76	60
61	662,599	12,414	·9812650	·0187350	656,392	10,632,488	16·05	61
62	650,185	13,496	·9792426	·0207574	643,437	9,976,096	15·34	62
63	636,689	14,790	·9767708	·0232292	629,294	9,332,659	14·66	63
64	621,899	16,171	·9739966	·0260034	613,814	8,703,365	13·99	64
65	605,728	17,518	·9710792	·0289208	596,969	8,089,551	13·36	65
66	588,210	18,709	·9681925	·0318075	578,855	7,492,582	12·74	66
67	569,501	19,636	·9655199	·0344801	559,683	6,913,727	12·14	67
68	549,865	20,372	·9629516	·0370484	539,679	6,354,044	11·56	68
69	529,493	21,064	·9602181	·0397819	518,961	5,814,365	10·98	69

TABLE CLXI (*b*)—SOUTH AFRICAN LIFE TABLES No. 2—(*Continued*).

FEMALES.

Age (*x*)	l_x	d_x	p_x	q_x	L_x	T_x	$\mathring{e}_x$	Age (*x*)
70	508,429	21,849	·9570274	·0429726	497,505	5,295,404	10·42	70
71	486,580	22,840	·9530593	·0469407	475,160	4,797,899	9·86	71
72	463,740	24,124	·9479800	·0520200	451,678	4,322,739	9·32	72
73	439,616	25,545	·9418924	·0581076	426,843	3,871,061	8·81	73
74	414,071	26,858	·9351358	·0648642	400,642	3,444,218	8·32	74
75	387,213	27,837	·9281106	·0718894	373,295	3,043,576	7·86	75
76	359,376	28,287	·9212899	·0787101	345,232	2,670,281	7·43	76
77	331,089	28,076	·9152018	·0847982	317,051	2,325,049	7·02	77
78	303,013	27,394	·9095958	·0904042	298,316	2,007,998	6·63	78
79	275,619	26,524	·9037643	·0962357	262,357	1,718,682	6·24	79
80	249,095	25,680	·8969073	·1030927	236,255	1,456,325	5·85	80
81	223,415	24,999	·8881062	·1118938	210,916	1,220,070	5·46	81
82	198,416	24,557	·8762352	·1237648	186,137	1,009,154	5·09	82
83	173,859	24,089	·8614460	·1385540	161,815	823,017	4·73	83
84	149,770	23,245	·8447948	·1552052	138,147	661,202	4·41	84
85	126,525	21,803	·8276749	·1723251	115,624	523,055	4·13	85
86	104,722	19,700	·8118838	·1881162	94,872	407,431	3·89	86
87	85,022	17,165	·7981078	·2018922	76,439	312,559	3·68	87
88	67,857	14,558	·7854557	·2145443	60,578	236,120	3·48	88
89	53,299	12,068	·7735812	·2264188	47,265	175,542	3·29	89
90	41,231	9,811	·7620529	·2379471	36,326	128,277	3·11	90
91	31,420	7,844	·7503612	·2496388	27,498	91,951	2·93	91
92	23,576	6,323	·7318087	·2681913	20,414	64,453	2·73	92
93	17,253	4,966	·7121587	·2878413	14,770	44,039	2·55	93
94	12,287	3,792	·6913940	·3086060	10,391	29,269	2·38	94
95	8,495	2,808	·6695055	·3304945	7,091	18,878	2·22	95
96	5,687	2,010	·6464944	·3535056	4,682	11,787	2·07	96
97	3,677	1,389	·6223739	·3776261	2,983	7,105	1·93	97
98	2,288	922	·5971705	·4028295	1,827	4,122	1·80	98
99	1,366	586	·5709267	·4290733	1,073	2,295	1·68	99
100	780	356	·5437021	·4562979	602	1,222	1·57	100
101	424	205	·5155751	·4844249	321	620	1·46	101
102	219	112	·4866444	·5133556	163	299	1·36	102
103	107	58	·4570307	·5429693	78	136	1·27	103
104	49	28	·4268765	·5731235	35	58	1·18	104
105	21	13	·3963464	·6036536	15	23	1·09	105
106	8	5	·3656271	·6343729	5	8	·97	106
107	3	2	·3349250	·6650750	2	3	·84	107
108	1	1	·3044642	·6955358	1	1	·50	108
109	—	—	·2744827	·7255173	—	—	—	109

TABLE CLXII.—COMPARISON OF VARIOUS SOUTH AFRICAN LIFE TABLES AT CERTAIN AGES.

Age.	Male.					Female.		
	S.A. No. 2. 1925–27.	S.A. No. 1. 1920–22.	Mr. C. W. Kops. 1919–21.	Johannesburg. 1910.	S.A. Mutual. 1845–95.	S.A. No. 2. 1925–27.	S.A. No. 1. 1920–22.	Johannesburg. 1910.
	(*a*) Complete Expectation of Life ($\mathring{e}_x$).							
0	57·78	55·61	53·85	50·33	—	61·48	59·18	55·07
1	61·40	59·94	57·38	56·47	—	64·58	62·88	60·86
2	61·56	60·26	58·33	57·35	—	64·78	63·20	61·39
3	61·01	59·79	58·21	57·17	—	64·28	62·78	60·97
4	60·30	59·14	57·66	56·69	—	63·55	62·12	60·38
5	59·51	58·34	56·92	56·00	—	62·76	61·38	59·72
10	55·17	54·02	52·62	52·02	—	58·33	57·00	55·79
20	46·27	45·26	44·02	43·18	42·69	49·34	48·15	47·00
30	37·87	37·08	36·37	35·21	34·46	40·77	39·93	38·72
40	29·78	29·16	28·80	27·81	26·83	32·47	31·89	30·70
50	22·17	21·86	21·55	21·21	19·63	24·28	23·97	25·10
60	15·31	15·14	15·04	15·13	13·56	16·76	16·56	16·51
70	9·54	9·53	9·63	9·49	8·22	10·42	10·35	10·67
80	5·42	5·56	5·58	5·09	5·80	5·85	5·78	5·60
90	2·98	3·11	2·86	1·25	4·20	3·11	3·17	3·16
100	1·57	1·33	1·23	—	—	1·57	1·53	1·05
	(*b*) Rate of Mortality ($1{,}000q_x$).							
0	74·44	87·84	78·38	125·35	—	62·76	73·88	110·66
1	18·70	21·64	33·12	32·57	—	18·38	20·76	24·74
2	7·36	8·91	14·99	14·15	—	7·70	9·15	9·37
3	4·71	5·73	7·64	9·05	—	4·14	5·35	6·82
4	3·46	3·44	4·59	5·55	—	3·43	4·25	5·54
5	2·92	2·94	3·28	3·79	—	2·37	3·04	3·76
10	1·79	2·00	2·17	2·23	—	1·48	1·64	2·38
20	3·44	3·94	4·79	4·42	4·43	2·60	3·34	3·51
30	4·16	4·98	6·59	7·38	5·56	3·98	5·06	5·43
40	7·16	8·17	8·91	12·73	9·40	5·43	6·20	7·75
50	12·27	13·45	14·46	19·86	17·53	8·63	9·45	14·86
60	24·71	25·96	27·05	31·62	34·99	17·25	18·66	26·62
70	51·69	56·33	55·03	56·34	64·24	42·97	45·64	49·26
80	119·12	119·90	116·62	121·18	130·64	103·09	119·99	135·59
90	251·46	235·02	251·66	570·97	124·11	237·95	238·34	419·41
100	457·99	499·00	547·19	—	—	456·30	443·00	—
	(*c*) Number of Survivors (l_x).							
0	1,000,000	1,000,000	1,000,000	1,000,000	—	1,000,000	1,000,000	1,000,000
1	925,563	912,156	921,620	874,650	—	937,239	926,116	889,340
2	908,252	892,420	891,096	846,160	—	920,012	906,893	867,340
3	901,567	884,467	877,738	834,190	—	912,928	898,595	859,210
4	897,325	879,395	871,032	826,640	—	909,150	893,791	853,350
5	894,218	876,372	867,034	822,050	—	906,027	889,991	848,620
10	883,978	865,897	856,035	806,590	—	897,639	880,837	832,790
20	864,911	844,152	831,295	786,970	—	880,830	861,455	813,380
30	832,490	807,557	783,876	746,270	—	853,043	827,176	780,760
40	786,225	757,842	727,300	685,760	—	814,143	783,030	736,560
50	716,110	680,810	650,938	594,430	—	763,378	726,337	671,870
60	602,702	567,732	535,662	474,860	—	674,230	637,336	561,080
70	423,372	392,052	364,149	325,540	—	508,429	474,298	404,750
80	183,309	169,494	160,010	143,240	—	249,095	230,546	217,060
90	25,553	26,526	24,954	13,960	—	41,231	41,466	45,430
100	422	475	241	—		780	1,016	740
	(*d*) Probability of Surviving 10 Years ($_{10}p_x$).							
0	·88398	·86590	·85604	·80659	—	·89764	·88084	·83279
10	·97843	·97489	·97110	·97568	—	·98127	·97800	·97669
20	·96252	·95665	·94296	·94828	·95514	·96845	·96021	·95990
30	·94443	·93844	·92783	·91892	·92448	·95440	·94663	·94339
40	·91082	·89835	·89501	·86682	·88442	·93765	·92760	·91217
50	·84163	·83391	·82291	·79885	·78422	·88322	·87747	·83510
60	·70246	·69056	·67981	·68555	·64596	·75409	·74419	·72138
70	·43297	·43233	·43941	·44001	·31672	·48993	·48608	·53628
80	·13940	·15650	·15595	·09746	·19679	·16552	·17986	·20930
90	·01652	·01791	·00966	—	—	·01892	·02450	·01629
100	—	—	—	—	—	—	—	—

TABLE CLXIII.—COMPARISON OF SOUTH AFRICAN LIFE TABLE No. 2, WITH THOSE OF OTHER COUNTRIES AT CERTAIN AGES.

Age.	Male.					Female.				
	S.A. No. 2. 1925–27.	New Zealand. 1921–22.	Australia. 1920–22.	England and Wales No. 9. 1920–22.	Irish Free State. 1925–27.	S.A. No. 2. 1925–27.	New Zealand. 1921–22.	Australia. 1920–22.	England and Wales No. 9. 1920–22.	Irish Free State. 1925–27.
	(*a*) Complete Expectation of Life ($\mathring{e}_x$).									
0	57·78	62·76	59·15	55·62	57·37	61·48	65·43	63·31	59·58	57·93
1	61·40	65·05	62·67	60·07	61·15	64·58	67·03	66·03	62·99	60·83
2	61·56	64·51	62·60	60·50	61·32	64·78	66·44	65·86	63·35	60·97
3	61·01	63·81	61·99	60·14	60·88	64·28	65·72	65·21	62·98	60·54
4	60·30	63·01	61·25	59·53	60·24	63·55	64·90	64·44	62·38	59·90
5	59·51	62·17	60·43	58·81	59·50	62·76	64·05	63·64	61·67	59·17
10	55·17	57·73	56·01	54·64	55·20	58·33	59·50	59·20	57·53	54·92
20	46·27	48·66	46·99	45·78	46·40	49·34	50·36	50·03	48·73	46·36
30	37·87	39·98	38·44	37·40	38·39	40·77	41·76	41·48	40·26	38·60
40	29·78	31·56	30·05	29·19	30·43	32·47	33·23	33·14	31·86	30·83
50	22·17	23·51	22·20	21·36	22·67	24·28	24·91	24·90	23·69	23·19
60	15·31	16·03	15·08	14·36	15·75	16·76	17·29	17·17	16·22	16·36
70	9·54	9·91	9·26	8·75	10·20	10·42	10·57	10·41	9·95	10·72
80	5·42	5·33	5·00	4·93	5·81	5·85	5·78	5·61	5·56	6·47
90	2·98	2·31	2·60	2·82	3·27	3·11	2·52	2·91	3·13	3·74
100	1·57	·75	1·17	—	1·81	1·57	·92	1·24	—	2·08
	(*b*) Rate of Mortality ($1{,}000q_x$).									
0	74·44	50·17	71·32	89·96	77·16	62·76	38·50	55·68	69·42	63·46
1	18·70	7·07	14·60	23·39	18·91	18·38	6·13	12·51	21·37	18·46
2	7·36	4·62	6·25	10·50	9·13	7·70	4·20	5·23	9·91	9·40
3	4·71	3·13	4·23	6·50	5·96	4·14	2·80	3·67	6·30	5·94
4	3·46	2·60	3·00	4·75	4·31	3·43	2·27	2·98	4·65	4·45
5	2·92	2·26	2·52	4·17	3·31	2·37	1·89	2·40	4·24	3·50
10	1·79	1·41	1·56	1·81	1·66	1·48	1·12	1·27	1·80	1·95
20	3·44	2·55	2·84	3·49	4·01	2·60	2·44	2·52	3·06	4·47
30	4·16	3·60	3·90	4·34	5·29	3·98	3·55	3·87	3·92	5·90
40	7·16	5·63	6·17	6·88	7·05	5·43	4·60	5·24	5·32	7·47
50	12·27	9·38	11·58	11·79	11·30	8·63	8·24	8·08	9·15	11·39
60	24·71	20·01	24·07	25·61	24·28	17·25	16·13	15·71	18·97	23·94
70	51·69	48·15	52·90	59·97	49·13	42·97	40·28	40·90	46·46	46·47
80	119·12	113·68	133·40	140·02	113·89	103·09	103·25	112·30	117·66	100·49
90	251·46	306·00	283·00	267·52	226·90	237·95	276·64	251·00	238·52	196·81
100	457·99	706·15	530·00	—	406·21	456·30	683·61	501·00	—	355·39
	(*c*) Number of Survivors (l_x).									
0	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
1	925,563	949,830	928,680	910,040	922,840	937,239	961,500	944,320	930,580	936,540
2	908,252	943,110	915,120	888,750	905,390	920,012	955,610	932,510	910,690	919,250
3	901,567	938,750	909,400	879,420	897,120	912,928	951,600	927,630	905,670	910,610
4	897,325	935,810	905,550	873,700	891,770	909,150	948,940	924,230	895,990	905,200
5	894,218	933,380	902,830	869,550	887,930	906,027	946,790	921,480	891,820	901,170
10	883,978	924,820	893,890	856,930	877,150	897,639	939,990	913,140	879,090	889,330
20	864,911	908,530	876,970	837,480	856,300	880,830	925,090	899,060	859,380	864,150
30	832,490	881,770	847,430	805,490	816,860	853,043	897,280	870,860	830,190	819,440
40	786,225	843,340	808,130	762,940	769,750	814,143	862,770	832,790	793,810	768,270
50	716,110	784,940	743,300	699,160	706,570	763,378	813,380	783,130	742,460	703,240
60	602,702	688,510	633,860	588,040	599,270	674,230	724,950	701,500	652,020	596,660
70	423,372	503,630	443,320	395,260	425,330	508,429	566,440	547,710	484,010	428,200
80	183,309	236,420	186,140	150,350	195,500	249,095	285,810	271,700	222,950	211,890
90	25,553	29,980	21,410	17,100	33,998	41,231	46,390	42,380	34,470	46,940
100	422	40	170	—	912	780	120	620	—	2,197
	(*d*) Probability of Surviving 10 Years ($_{10}p_x$).									
0	·88398	·92482	·89389	·85693	·87715	·89764	·93999	·91314	·87909	·88933
10	·97843	·98239	·98107	·97730	·97623	·98127	·98415	·98458	·97758	·97169
20	·96252	·97055	·96632	·96180	·95394	·96845	·96994	·96863	·96603	·94826
30	·94443	·95642	·95362	·94718	·94233	·95440	·96154	·95628	·95618	·93755
40	·91082	·93075	·91978	·91640	·91792	·93765	·94275	·94037	·93531	·91536
50	·84163	·87715	·85276	·84107	·84814	·88322	·89128	·89576	·87819	·84844
60	·70246	·73148	·69940	·67217	·70975	·75409	·78135	·78077	·74232	·71766
70	·43297	·46943	·41988	·38038	·45964	·48993	·50457	·49607	·46063	·49484
80	·13940	·12681	·11502	·11373	·17390	·16552	·16231	·15598	·15461	·22153
90	·01652	·00133	·00794	—	·02683	·01892	·00259	·01463	—	·04680
100	—	—	—	—	—	—	—	—	—	—

TABLE CLXIV.—STATISTICS ON WHICH SOUTH AFRICAN LIFE TABLE No. 2 IS BASED.

Age: Years.	1926: Population Census Figures Adjusted to 30/6/26.	Males. Deaths Registered in Each of 3 Years: 1925, 1926, and 1927. 1925.	1926.	1927.	Total.	1926: Population Census Figures Adjusted to 30/6/26.	Females. Deaths Registered in Each of 3 Years: 1925, 1926, and 1927. 1925.	1926.	1927.	Total.	Age: Years.
0	21,067	1,692	1,570	1,714	4,976	20,062	1,277	1,274	1,418	3,969	0
1	20,319	387	343	423	1,153	19,171	377	315	385	1,077	1
2	19,725	147	114	174	435	19,079	132	154	150	436	2
3	20,035	89	85	103	277	19,493	86	78	70	234	3
4	20,472	62	80	61	203	19,707	67	67	60	194	4
5	20,431	63	52	54	169	19,810	37	49	45	131	5
6	19,590	44	43	46	133	18,871	26	45	41	112	6
7	19,624	42	54	41	137	19,052	33	38	34	105	7
8	19,724	41	40	37	118	18,505	35	29	32	96	8
9	19,453	34	49	36	119	18,746	31	34	31	96	9
10	18,622	31	33	37	101	18,012	25	21	29	75	10
11	19,560	32	41	37	110	18,816	26	37	30	93	11
12	19,625	35	35	28	98	19,311	29	20	28	77	12
13	19,561	27	46	25	98	19,389	32	31	33	96	13
14	19,118	26	33	39	98	18,658	31	41	38	110	14
15	18,945	32	34	44	110	18,233	32	36	42	110	15
16	18,454	41	37	38	116	17,864	36	32	31	99	16
17	17,952	43	56	47	146	17,688	32	33	29	94	17
18	18,053	57	47	55	159	18,211	45	41	58	144	18
19	17,479	53	68	59	180	17,690	36	41	43	120	19
20	17,184	70	62	75	207	17,104	46	44	47	137	20
21	16,573	47	52	65	164	16,681	41	53	53	147	21
22	16,178	48	50	54	152	16,379	41	41	57	139	22
23	12,978	47	58	65	170	13,462	42	35	45	122	23
24	10,840	42	43	50	135	11,435	35	33	35	103	24
25	11,201	43	40	44	127	12,004	50	34	29	113	25
26	11,946	36	47	49	132	12,969	36	56	46	138	26
27	11,581	46	41	38	125	12,412	32	54	46	132	27
28	11,977	36	50	64	150	12,553	53	46	40	139	28
29	12,031	45	47	50	142	12,587	56	57	40	153	29
30	12,439	40	57	48	145	12,980	58	62	47	167	30
31	11,535	51	47	51	149	11,747	33	32	44	109	31
32	11,983	48	60	68	176	12,069	55	60	44	159	32
33	11,810	62	64	57	183	11,987	59	53	63	175	33
34	11,189	60	65	62	187	11,233	48	57	64	169	34
35	11,409	69	69	74	212	11,305	49	53	59	161	35
36	10,920	71	77	67	215	11,026	59	56	57	172	36
37	11,000	56	76	79	211	10,934	45	61	43	149	37
38	10,631	76	76	84	236	10,816	48	60	55	163	38
39	10,268	63	60	69	192	10,205	56	61	48	165	39
40	10,420	79	75	70	224	9,893	61	57	49	167	40
41	9,595	62	64	72	198	9,037	45	43	33	121	41
42	9,948	93	75	85	253	9,399	69	55	68	192	42
43	10,094	86	88	97	271	9,099	47	49	61	157	43
44	9,938	63	92	82	237	8,556	50	46	57	153	44
45	10,647	111	120	107	338	9,075	52	63	55	170	45
46	10,291	87	109	106	302	8,339	51	47	50	148	46
47	9,329	81	94	110	285	7,619	63	52	60	175	47
48	9,425	101	130	121	352	7,743	66	64	52	182	48
49	9,198	96	120	110	326	7,422	47	55	68	170	49
50	9,302	125	113	102	340	7,719	61	54	68	183	50
51	8,180	89	74	105	268	6,358	52	63	46	161	51
52	8,039	107	133	142	382	6,344	81	82	73	236	52
53	7,841	112	129	119	360	6,368	60	69	80	209	53
54	7,132	110	126	134	370	5,721	67	72	87	226	54
55	7,207	99	114	139	352	5,695	74	65	63	202	55
56	6,573	148	140	127	415	5,398	79	71	78	228	56
57	5,882	103	103	123	329	4,991	67	78	70	215	57
58	5,493	116	127	108	351	4,717	68	82	74	224	58
59	5,195	116	137	117	370	4,346	65	74	58	197	59
60	5,112	124	142	113	379	4,425	75	90	80	245	60
61	4,510	95	119	115	329	3,789	72	66	51	189	61
62	4,263	120	137	147	404	3,692	65	77	89	231	62
63	4,257	136	137	117	390	3,591	78	98	95	271	63
64	3,723	110	125	141	376	3,157	76	86	109	271	64

TABEL CLXIV.—STATISTICS ON WHICH SOUTH AFRICAN LIFE TABLE No. 2 IS BASED (*continued*).

Age: Years.	1926: Population Census Figures Adjusted to 30/6/26.	Males. Deaths Registered in Each of 3 Years: 1925, 1926, and 1927. 1925.	1926.	1927.	Total.	1926: Population Census Figures Adjusted to 30/6/26.	Females. Deaths Registered in Each of 3 Years: 1925, 1926, and 1927. 1925.	1926.	1927.	Total.	Age: Years.
65	3,669	139	162	143	445	3,270	87	109	101	297	65
66	3,363	100	117	117	334	2,836	67	86	79	232	66
67	2,833	96	111	141	348	2,431	87	84	100	271	67
68	2,709	102	124	135	361	2,307	80	92	101	273	68
69	2,440	109	137	119	365	2,092	76	90	98	264	69
70	2,370	117	125	128	370	2,118	87	94	83	264	70
71	2,124	97	110	110	317	1,755	65	84	78	227	71
72	1,844	118	145	140	403	1,584	88	83	100	271	72
73	1,682	111	123	122	356	1,580	87	91	107	285	73
74	1,420	115	105	115	335	1,345	83	93	87	263	74
75	1,385	106	131	125	362	1,281	111	84	86	281	75
76	1,207	113	100	129	342	1,089	77	110	118	305	76
77	969	90	87	123	300	926	67	84	90	241	77
78	818	90	97	90	277	792	62	92	68	222	78
79	677	83	80	78	241	675	75	76	72	223	79
80	625	77	76	70	223	618	66	81	62	209	80
81	498	66	60	60	186	507	50	56	70	176	81
82	391	57	60	67	184	445	48	38	56	142	82
83	357	69	63	64	196	368	51	52	61	164	83
84	273	64	66	54	184	292	59	65	51	175	84
85	259	34	61	41	136	256	39	39	47	125	85
86	170	21	42	28	91	188	37	52	36	125	86
87	114	27	23	39	89	139	35	33	35	103	87
88	86	31	20	28	79	113	19	20	23	62	88
89	75	20	18	13	51	91	21	27	15	63	89
90	53	18	20	13	51	67	20	13	18	51	90
91	29	7	9	12	28	43	9	15	14	38	91
92	20	7	3	4	14	38	14	12	15	41	92
93	18	10	6	9	25	24	6	10	7	23	93
94	11	4	4	5	13	18	7	2	7	16	94
95	8	3	4	4	11	12	1	6	4	11	95
96	7	—	2	2	4	14	5	3	6	14	96
97	6	2	1	4	7	7	6	3	3	12	97
98	3	1	—	—	1	4	—	1	2	3	98
99	—	2	—	2	4	2	1	—	1	2	99
100	1	1	—	1	2	3	1	—	—	1	100
101	—	2	—	1	3	2	1	—	3	4	101
102	—	—	—	—	—	—	—	—	1	1	102
103	—	—	1	—	1	1	2	—	—	2	103
104	—	—	—	—	—	—	1	—	—	1	104
105	—	—	—	—	—	—	1	—	2	3	105
106	—	—	—	—	—	2	—	—	—	—	106
107	—	—	—	—	—	—	2	—	—	2	107
All ages.....	857,590	8,712	9,118	9,456	27,286	820,084	6,659	6,962	7,170	20,791	All ages.

TABLE CLXV.—SOUTH AFRICAN LIFE TABLE No. 2.

VALUE OF ANNUITIES AND SINGLE AND ANNUAL PREMIUMS—4%.

M. 4.	MALES.							M. 4.	F. 4.	FEMALES.							F. 4.
Age. x	a_x	A_x	P_x	Age. x	a_x	A_x	P_x		Age. x	a_x	A_x	P_x	Age. x	a_x	A_x	P_x	
0	19·859	·19771	·00948	55	11·818	·50701	·03955		0	20·416	·17630	·00823	55	12·699	·47311	·03454	
1	21·315	·14174	·00635	56	11·508	·51894	·04149		1	21·655	·12867	·00568	56	12·378	·48546	·03629	
2	21·590	·13116	·00581	57	11·195	·53095	·04354		2	21·943	·11759	·00513	57	12·053	·49798	·03815	
3	21·620	·13000	·00575	58	10·881	·54303	·04570		3	21·997	·11549	·00502	58	11·720	·51076	·04015	
4	21·591	·13111	·00580	59	10·565	·55519	·04801		4	21·972	·11645	·00507	59	11·379	·52389	·04232	
5	21·533	·13335	·00592	60	10·247	·56743	·05045		5	21·930	·11808	·00515	60	11·029	·53736	·04467	
6	21·460	·13616	·00606	61	9·927	·57974	·05306		6	21·861	·12072	·00528	61	10·671	·55111	·04722	
7	21·374	·13945	·00623	62	9·605	·59212	·05583		7	21·782	·12377	·00543	62	10·310	·56500	·04996	
8	21·278	·14314	·00642	63	9·281	·60458	·05881		8	21·693	·12717	·00560	63	9·950	·57886	·05287	
9	21·174	·14715	·00664	64	8·954	·61715	·06200		9	21·598	·13086	·00579	64	9·594	·59255	·05593	
10	21·062	·15146	·00687	65	8·625	·62982	·06544		10	21·496	·13479	·00599	65	9·244	·60601	·05916	
11	20·944	·15601	·00711	66	8·293	·64256	·06914		11	21·389	·13890	·00620	66	8·900	·61924	·06255	
12	20·820	·16078	·00737	67	7·961	·65533	·07313		12	21·277	·14317	·00643	67	8·560	·63231	·06614	
13	20·691	·16573	·00764	68	7·630	·66808	·07741		13	21·163	·14757	·00666	68	8·220	·64538	·07000	
14	20·558	·17084	·00792	69	7·299	·68080	·08203		14	21·046	·15206	·00690	69	7·878	·65854	·07418	
15	20·422	·17609	·00822	70	6·970	·69346	·08701		15	20·927	·15665	·00714	70	7·532	·67183	·07874	
16	20·282	·18146	·00853	71	6·644	·70600	·09236		16	20·806	·16131	·00740	71	7·185	·68517	·08371	
17	20·141	·18689	·00884	72	6·323	·71834	·09809		17	20·683	·16606	·00766	72	6·841	·69842	·08907	
18	19·999	·19236	·00916	73	6·011	·73034	·10417		18	20·557	·17089	·00793	73	6·505	·71135	·09478	
19	19·857	·19781	·00948	74	5·712	·74185	·11053		19	20·429	·17582	·00821	74	6·183	·72375	·10076	
20	19·716	·20322	·00981	75	5·427	·75282	·11714		20	20·298	·18084	·00849	75	5·876	·73554	·10697	
21	19·576	·20863	·01014	76	5·155	·76326	·12400		21	20·165	·18596	·00879	76	5·584	·74676	·11342	
22	19·434	·21409	·01048	77	4·895	·77327	·13118		22	20·029	·19119	·00909	77	5·304	·75755	·12017	
23	19·288	·21970	·01083	78	4·640	·78306	·13883		23	19·890	·19653	·00941	78	5·027	·76819	·12746	
24	19·136	·22553	·01120	79	4·387	·79279	·14716		24	19·748	·20200	·00974	79	4·748	·77893	·13552	
25	18·978	·23162	·01159	80	4·134	·80254	·15632		25	19·602	·20761	·01008	80	4·463	·78987	·14457	
26	18·813	·23797	·01201	81	3·881	·81228	·16642		26	19·453	·21335	·01043	81	4·176	·80094	·15475	
27	18·641	·24458	·01245	82	3·631	·82187	·17746		27	19·300	·21924	·01080	82	3·890	·81193	·16605	
28	18·463	·25143	·01292	83	3·393	·83104	·18918		28	19·143	·22528	·01118	83	3·617	·82243	·17814	
29	18·278	·25854	·01341	84	3·172	·83952	·20121		29	18·982	·23146	·01158	84	3·366	·83206	·19056	
30	18·086	·26592	·01393	85	2·974	·84716	·21319		30	18·817	·23780	·01200	85	3·144	·84061	·20284	
31	17·888	·27353	·01448	86	2·797	·85396	·22490		31	18·648	·24430	·01243	86	2·951	·84805	·21465	
32	17·685	·28133	·01506	87	2·638	·86008	·23643		32	18·475	·25098	·01289	87	2·780	·85462	·22610	
33	17·480	·28925	·01565	88	2·490	·86576	·24805		33	18·296	·25784	·01336	88	2·622	·86068	·23760	
34	17·273	·29721	·01627	89	2·351	·87111	·25996		34	18·113	·26489	·01386	89	2·472	·86645	·24954	
35	17·065	·30519	·01689	90	2·216	·87631	·27251		35	17·924	·27214	·01438	90	2·324	·87217	·26242	
36	16·856	·31323	·01754	91	2·078	·88159	·28638		36	17·730	·27960	·01493	91	2·171	·87803	·27689	
37	16·644	·32139	·01822	92	1·930	·88728	·30278		37	17·530	·28730	·01550	92	2·009	·88425	·29386	
38	16·426	·32976	·01892	93	1·790	·89268	·32000		38	17·324	·29524	·01611	93	1·855	·89017	·31177	
39	16·201	·33842	·01967	94	1·656	·89782	·33805		39	17·110	·30345	·01676	94	1·709	·89577	·33064	
40	15·967	·34741	·02047	95	1·529	·90269	·35696		40	16·889	·31195	·01744	95	1·571	·90108	·35046	
41	15·726	·35670	·02133	96	1·409	·90729	·37670		41	16·661	·32075	·01816	96	1·441	·90607	·37123	
42	15·478	·36625	·02223	97	1·295	·91162	·39724		42	16·424	·32983	·01893	97	1·317	·91078	·39301	
43	15·224	·37598	·02317	98	1·188	·91566	·41855		43	16·180	·33923	·01975	98	1·202	·91516	·41563	
44	14·967	·38587	·02417	99	1·087	·91939	·44054		44	15·927	·34896	·02062	99	1·094	·91921	·43905	
45	14·707	·39590	·02521	100	·993	·92272	·46299		45	15·665	·35903	·02154	100	·992	·92291	·46334	
46	14·443	·40606	·02629	101	·903	·92560	·48639		46	15·395	·36942	·02253	101	·898	·92610	·48802	
47	14·174	·41639	·02744	102	·823	·92746	·50888		47	15·118	·38009	·02358	102	·807	·92864	·51378	
48	13·900	·42694	·02865	103	·749	·93271	·53315		48	14·833	·39102	·02470	103	·726	·93363	·54108	
49	13·618	·43775	·02995	104	·680	·93539	·55678		49	14·543	·40218	·02588	104	·645	·93675	·56961	
50	13·330	·44883	·03132	105	·617	·93779	·57983		50	14·247	·41357	·02712	105	·567	·93974	·59976	
51	13·036	·46016	·03279	106	·545	·94056	·60862		51	13·946	·42515	·02845	106	·482	·94301	·63639	
52	12·736	·47169	·03434	107	·465	·94366	·64418		52	13·640	·43692	·02984	107	·426	·94516	·66288	
53	12·432	·48337	·03598	108	·308	·94969	·72602		53	13·330	·44884	·03132	108	·289	·95043	·73737	
54	12·126	·49515	·03772	109	—	·96154	·96154		54	13·016	·46091	·03288	109	—	·96154	·96154	

TABLE CLXVI.—SOUTH AFRICAN LIFE TABLE No. 2.

VALUE OF ANNUITIES AND SINGLE AND ANNUAL PREMIUMS—4½%.

M. 4½.	MALES.							M. 4½.	F. 4½.	FEMALES.							F. 4½.
Age. x	a_x	A_x	P_x	Age. x	a_x	A_x	P_x		Age. x	a_x	A_x	P_x	Age. x	a_x	A_x	P_x	
0	18·089	·17797	·00932	55	11·285	·47097	·03834		0	18·558	·15778	·00807	55	12·098	·43596	·03328	
1	19·424	·12052	·00590	56	11·001	·48320	·04026		1	19·692	·10895	·00527	56	11·806	·44853	·03502	
2	19·684	·10928	·00528	57	10·715	·49553	·04230		2	19·964	·09726	·00464	57	11·510	·46131	·03688	
3	19·723	·10763	·00519	58	10·426	·50797	·04446		3	20·024	·09467	·00450	58	11·205	·47441	·03887	
4	19·708	·10828	·00523	59	10·134	·52053	·04675		4	20·012	·09518	·00453	59	10·892	·48790	·04103	
5	19·666	·11007	·00533	60	9·840	·53320	·04919		5	19·984	·09636	·00459	60	10·569	·50179	·04337	
6	19·611	·11243	·00545	61	9·544	·54597	·05178		6	19·933	·09857	·00471	61	10·239	·51603	·04591	
7	19·545	·11527	·00561	62	9·245	·55885	·05455		7	19·873	·10118	·00485	62	9·904	·53045	·04865	
8	19·470	·11851	·00579	63	8·943	·57184	·05751		8	19·804	·10414	·00501	63	9·569	·54487	·05155	
9	19·387	·12208	·00599	64	8·638	·58498	·06070		9	19·728	·10739	·00518	64	9·237	·55915	·05462	
10	19·297	·12595	·00621	65	8·329	·59827	·06413		10	19·647	·11088	·00537	65	8·911	·57322	·05784	
11	19·202	·13006	·00644	66	8·018	·61166	·06783		11	19·562	·11456	·00557	66	8·589	·58707	·06122	
12	19·101	·13439	·00669	67	7·706	·62512	·07181		12	19·473	·11839	·00578	67	8·271	·60079	·06481	
13	18·996	·13891	·00695	68	7·393	·63859	·07609		13	19·381	·12234	·00600	68	7·951	·61453	·06865	
14	18·887	·14360	·00722	69	7·080	·65206	·08070		14	19·287	·12640	·00623	69	7·629	·62842	·07283	
15	18·775	·14843	·00751	70	6·768	·66550	·08567		15	19·191	·13054	·00647	70	7·302	·64248	·07738	
16	18·661	·15337	·00780	71	6·458	·67885	·09102		16	19·093	·13476	·00671	71	6·974	·65663	·08235	
17	18·544	·15839	·00810	72	6·152	·69201	·09675		17	18·993	·13907	·00696	72	6·646	·67073	·08772	
18	18·427	·16344	·00841	73	5·854	·70483	·10283		18	18·891	·14346	·00721	73	6·327	·68450	·09342	
19	18·310	·16846	·00872	74	5·568	·71716	·10919		19	18·787	·14795	·00748	74	6·019	·69773	·09940	
20	18·194	·17345	·00904	75	5·295	·72891	·11579		20	18·680	·15252	·00775	75	5·726	·71034	·10560	
21	18·079	·17842	·00935	76	5·035	·74012	·12264		21	18·572	·15719	·00803	76	5·448	·72235	·11203	
22	17·962	·18346	·00968	77	4·785	·75088	·12980		22	18·461	·16198	·00832	77	5·179	·73391	·11877	
23	17·841	·18865	·01001	78	4·540	·76142	·13743		23	18·347	·16687	·00863	78	4·914	·74534	·12604	
24	17·716	·19406	·01037	79	4·297	·77192	·14574		24	18·230	·17190	·00894	79	4·645	·75690	·13408	
25	17·584	·19973	·01075	80	4·052	·78246	·15488		25	18·110	·17707	·00927	80	4·371	·76871	·14312	
26	17·446	·20569	·01115	81	3·807	·79301	·16497		26	17·987	·18238	·00961	81	4·093	·78069	·15329	
27	17·301	·21190	·01158	82	3·565	·80343	·17600		27	17·860	·18783	·00996	82	3·816	·79261	·16458	
28	17·151	·21838	·01203	83	3·333	·81340	·18722		28	17·730	·19344	·01033	83	3·551	·80403	·17667	
29	16·994	·22513	·01251	84	3·119	·82264	·19973		29	17·596	·19919	·01071	84	3·308	·81451	·18909	
30	16·831	·23216	·01302	85	2·925	·83097	·21170		30	17·459	·20511	·01111	85	3·091	·82382	·20135	
31	16·662	·23944	·01356	86	2·753	·83838	·22338		31	17·318	·21120	·01153	86	2·903	·83192	·21315	
32	16·488	·24692	·01412	87	2·598	·84506	·23487		32	17·172	·21748	·01197	87	2·737	·83909	·22456	
33	16·311	·25453	·01470	88	2·454	·85126	·24646		33	17·022	·22394	·01243	88	2·583	·84570	·23602	
34	16·133	·26219	·01530	89	2·318	·85711	·25832		34	16·867	·23060	·01291	89	2·437	·85200	·24791	
35	15·955	·26990	·01592	90	2·186	·86280	·27081		35	16·708	·23747	·01341	90	2·292	·85825	·26073	
36	15·774	·27766	·01655	91	2·052	·86858	·28462		36	16·543	·24457	·01394	91	2·143	·86467	·27514	
37	15·591	·28555	·01721	92	1·907	·87482	·30097		37	16·372	·25191	·01450	92	1·984	·87149	·29206	
38	15·403	·29367	·01790	93	1·769	·88076	·31813		38	16·196	·25952	·01509	93	1·833	·87799	·30991	
39	15·207	·30211	·01864	94	1·637	·88641	·33612		39	16·012	·26742	·01572	94	1·690	·88415	·32871	
40	15·003	·31090	·01943	95	1·512	·89177	·35497		40	15·822	·27562	·01638	95	1·554	·88999	·34847	
41	14·791	·32002	·02027	96	1·394	·89684	·37463		41	15·624	·28414	·01709	96	1·426	·89549	·36916	
42	14·572	·32942	·02115	97	1·282	·90162	·39509		42	15·419	·29297	·01784	97	1·304	·90068	·39087	
43	14·349	·33905	·02209	98	1·176	·90609	·41632		43	15·206	·30215	·01864	98	1·190	·90553	·41340	
44	14·121	·34884	·02307	99	1·077	·91022	·43824		44	14·984	·31169	·01950	99	1·084	·91001	·43673	
45	13·890	·35880	·02410	100	·984	·91393	·46059		45	14·754	·32160	·02041	100	·983	·91413	·46093	
46	13·655	·36891	·02517	101	·895	·91718	·48390		46	14·516	·33186	·02139	101	·890	·91770	·48551	
47	13·416	·37923	·02631	102	·816	·91937	·50630		47	14·270	·34244	·02243	102	·801	·92061	·51116	
48	13·170	·38979	·02751	103	·744	·92402	·53046		48	14·018	·35331	·02353	103	·720	·92593	·53834	
49	12·918	·40065	·02879	104	·675	·92788	·55399		49	13·759	·36445	·02469	104	·640	·92938	·56675	
50	12·659	·41182	·03015	105	·613	·93054	·57691		50	13·494	·37584	·02593	105	·563	·93270	·59675	
51	12·393	·42328	·03161	106	·542	·93361	·60554		51	13·224	·38747	·02724	106	·479	·93633	·63322	
52	12·121	·43497	·03315	107	·462	·93704	·64086		52	12·949	·39932	·02863	107	·423	·93871	·65951	
53	11·846	·44684	·03479	108	·307	·94374	·72228		53	12·669	·41136	·03009	108	·288	·94456	·73360	
54	11·567	·45885	·03651	109	—	·95694	·95694		54	12·386	·42358	·03164	109	—	·95694	·95694	

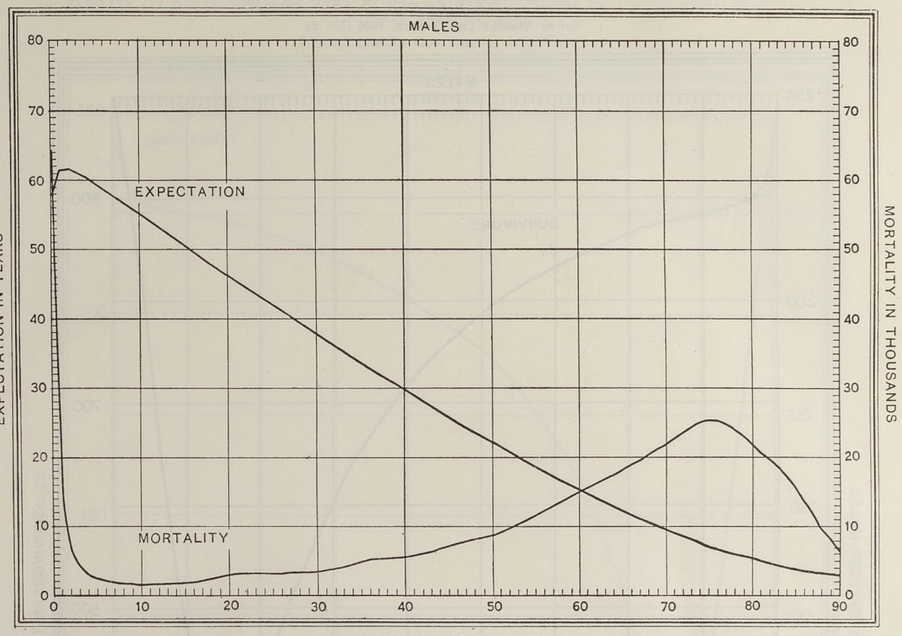
TABLE CLXVII.—SOUTH AFRICAN LIFE TABLE No. 2.

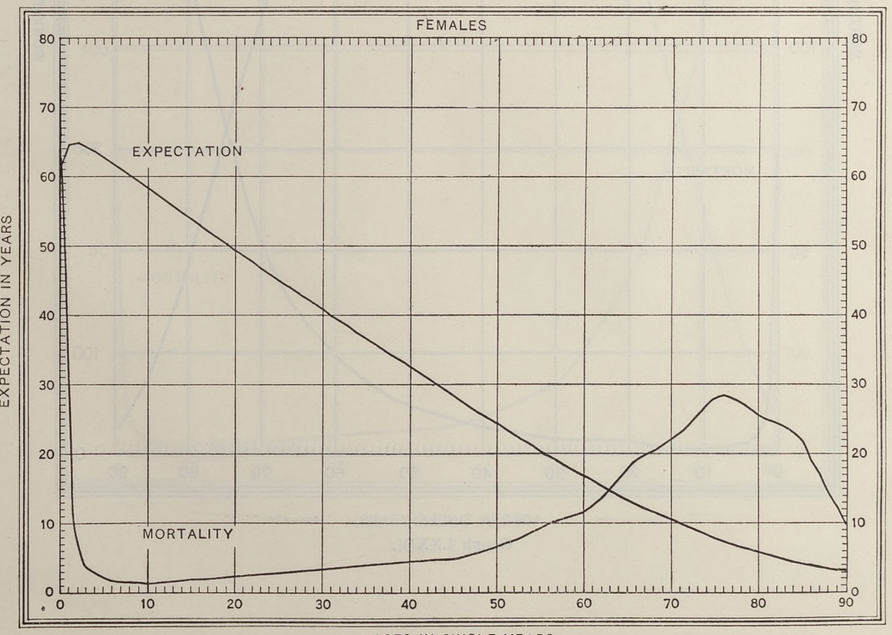
VALUE OF ANNUITIES AND SINGLE AND ANNUAL PREMIUMS—5%.

M. 5.	MALES.						M. 5.	F. 5.	FEMALES.						F. 5.
Age. x	a_x	A_x	P_x	Age. x	a_x	A_x	P_x	Age. x	a_x	A_x	P_x	Age. x	a_x	A_x	P_x
0	16·581	·16282	·00926	55	10·791	·43851	·03719	0	16·981	·14374	·00799	55	11·543	·40272	·03211
1	17·810	·10428	·00554	56	10·531	·45090	·03910	1	18·025	·09407	·00494	56	11·277	·41538	·03383
2	18·057	·09253	·00486	57	10·268	·46344	·04113	2	18·280	·08190	·00425	57	11·006	·42829	·03567
3	18·100	·09046	·00474	58	10·002	·47611	·04328	3	18·343	·07890	·00408	58	10·727	·44156	·03765
4	18·095	·09070	·00475	59	9·732	·48894	·04556	4	18·340	·07904	·00409	59	10·439	·45528	·03980
5	18·066	·09209	·00483	60	9·460	·50190	·04798	5	18·324	·07983	·00413	60	10·141	·46947	·04214
6	18·025	·09405	·00494	61	9·185	·51502	·05057	6	18·285	·08164	·00423	61	9·835	·48404	·04467
7	17·974	·09649	·00509	62	8·906	·52826	·05332	7	18·239	·08387	·00436	62	9·524	·49885	·04740
8	17·914	·09932	·00525	63	8·625	·54167	·05628	8	18·185	·08644	·00451	63	9·212	·51370	·05030
9	17·848	·10249	·00544	64	8·340	·55525	·05945	9	18·125	·08930	·00467	64	8·903	·52843	·05336
10	17·775	·10595	·00564	65	8·050	·56903	·06287	10	18·060	·09239	·00485	65	8·598	·54297	·05657
11	17·697	·10966	·00586	66	7·758	·58296	·06656	11	17·991	·09567	·00504	66	8·296	·55731	·05995
12	17·615	·11358	·00610	67	7·463	·59698	·07054	12	17·919	·09910	·00524	67	7·997	·57155	·06352
13	17·528	·11770	·00635	68	7·168	·61105	·07481	13	17·844	·10265	·00545	68	7·697	·58585	·06736
14	17·438	·12198	·00662	69	6·872	·62516	·07942	14	17·768	·10630	·00566	69	7·393	·60033	·07153
15	17·346	·12640	·00689	70	6·575	·63926	·08439	15	17·689	·11004	·00589	70	7·084	·61504	·07608
16	17·250	·13093	·00717	71	6·281	·65331	·08973	16	17·609	·11384	·00612	71	6·772	·62988	·08104
17	17·154	·13554	·00747	72	5·989	·66719	·09546	17	17·528	·11773	·00635	72	6·461	·64470	·08641
18	17·056	·14019	·00776	73	5·705	·68073	·10153	18	17·444	·12171	·00660	73	6·157	·65921	·09211
19	16·959	·14480	·00806	74	5·431	·69377	·10788	19	17·359	·12577	·00685	74	5·863	·67317	·09808
20	16·863	·14937	·00836	75	5·169	·70623	·11448	20	17·272	·12992	·00711	75	5·584	·68650	·10428
21	16·768	·15392	·00866	76	4·920	·71812	·12131	21	17·183	·13417	·00738	76	5·317	·69920	·11069
22	16·671	·15853	·00897	77	4·680	·72955	·12845	22	17·091	·13852	·00766	77	5·060	·71145	·11741
23	16·571	·16330	·00929	78	4·444	·74076	·13607	23	16·997	·14298	·00794	78	4·805	·72358	·12465
24	16·466	·16829	·00964	79	4·209	·75195	·14436	24	16·901	·14758	·00824	79	4·547	·73588	·13267
25	16·356	·17354	·01000	80	3·973	·76321	·15348	25	16·801	·15231	·00856	80	4·282	·74847	·14170
26	16·239	·17909	·01039	81	3·735	·77451	·16356	26	16·699	·15719	·00888	81	4·013	·76128	·15186
27	16·117	·18489	·01080	82	3·501	·78569	·17457	27	16·594	·16221	·00922	82	3·745	·77406	·16314
28	15·990	·19097	·01124	83	3·275	·79641	·18628	28	16·485	·16738	·00957	83	3·487	·78632	·17523
29	15·856	·19734	·01171	84	3·067	·80635	·19828	29	16·373	·17270	·00994	84	3·251	·79759	·18764
30	15·716	·20399	·01220	85	2·878	·81532	·21023	30	16·258	·17819	·01033	85	3·040	·80761	·19990
31	15·571	·21090	·01273	86	2·711	·82331	·22188	31	16·139	·18385	·01073	86	2·857	·81634	·21166
32	15·421	·21803	·01328	87	2·559	·83051	·23334	32	16·016	·18970	·01115	87	2·695	·82406	·22304
33	15·269	·22529	·01385	88	2·419	·83720	·24489	33	15·890	·19573	·01159	88	2·545	·83118	·23446
34	15·115	·23261	·01443	89	2·286	·84352	·25670	34	15·758	·20198	·01205	89	2·402	·83798	·24630
35	14·960	·23998	·01504	90	2·157	·84966	·26914	35	15·623	·20844	·01254	90	2·261	·84473	·25907
36	14·804	·24741	·01565	91	2·026	·85592	·28289	36	15·482	·21513	·01305	91	2·115	·85167	·27342
37	14·645	·25498	·01630	92	1·883	·86268	·29918	37	15·336	·22208	·01359	92	1·959	·85907	·29028
38	14·481	·26280	·01698	93	1·748	·86913	·31628	38	15·185	·22930	·01417	93	1·811	·86611	·30807
39	14·310	·27094	·01770	94	1·619	·87526	·33421	39	15·027	·23683	·01478	94	1·671	·87281	·32682
40	14·131	·27946	·01847	95	1·496	·88110	·35299	40	14·862	·24468	·01543	95	1·537	·87915	·34650
41	13·945	·28834	·01929	96	1·380	·88662	·37258	41	14·690	·25286	·01612	96	1·411	·88514	·36712
42	13·752	·29753	·02017	97	1·269	·89182	·39297	42	14·511	·26137	·01685	97	1·291	·89080	·38875
43	13·554	·30695	·02109	98	1·165	·89670	·41412	43	14·325	·27025	·01763	98	1·179	·89608	·41119
44	13·352	·31656	·02206	99	1·067	·90123	·43595	44	14·130	·27952	·01847	99	1·074	·90099	·43444
45	13·147	·32636	·02307	100	·976	·90531	·45822	45	13·927	·28918	·01937	100	·975	·90550	·45854
46	12·937	·33633	·02413	101	·888	·90891	·48144	46	13·716	·29922	·02033	101	·883	·90944	·48302
47	12·723	·34653	·02525	102	·809	·91142	·50374	47	13·498	·30961	·02136	102	·795	·91271	·50857
48	12·503	·35701	·02644	103	·738	·91725	·52781	48	13·273	·32032	·02244	103	·715	·91836	·53563
49	12·276	·36782	·02771	104	·670	·92048	·55123	49	13·042	·33133	·02360	104	·635	·92213	·56391
50	12·042	·37896	·02906	105	·609	·92340	·57403	50	12·805	·34262	·02482	105	·559	·92576	·59378
51	11·801	·39043	·03050	106	·538	·92675	·60249	51	12·562	·35418	·02612	106	·476	·92973	·63009
52	11·554	·40217	·03203	107	·459	·93050	·63758	52	12·314	·36599	·02749	107	·421	·93234	·65617
53	11·303	·41412	·03366	108	·305	·93785	·71858	53	12·061	·37803	·02894	108	·286	·93875	·72987
54	11·049	·42624	·03538	109	—	·95238	·95238	54	11·804	·39027	·03048	109	—	·95238	·95238

EXPECTATION OF LIFE (e_x), AND MORTALITY (d_x) OF EUROPEAN MALES AND FEMALES AT EACH YEAR OF AGE.

SOUTH AFRICAN LIFE TABLES, 1926 (No. 2).

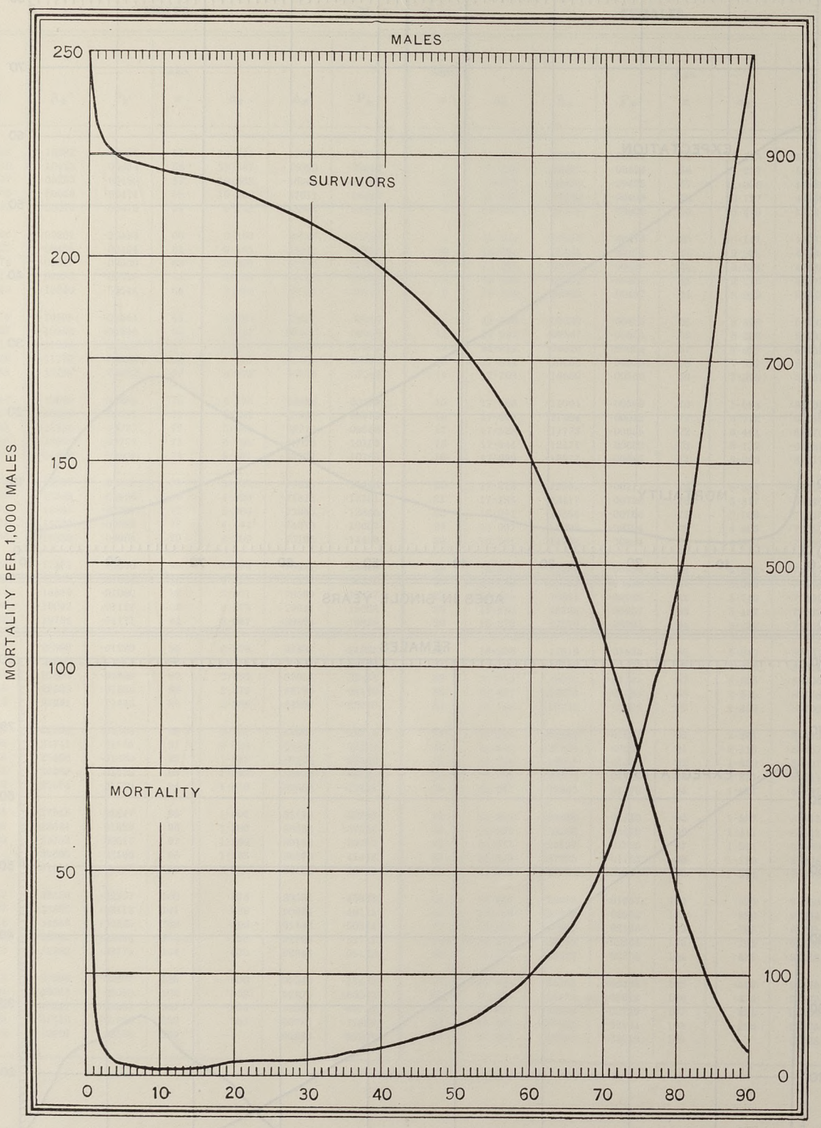




Graph LXXIII.

PROBABILITY OF DEATH PER 1,000 MALES (1,000q_x), AND SURVIVORS OF 1,000,000 MALES BORN (l_x) AT EACH YEAR OF AGE.

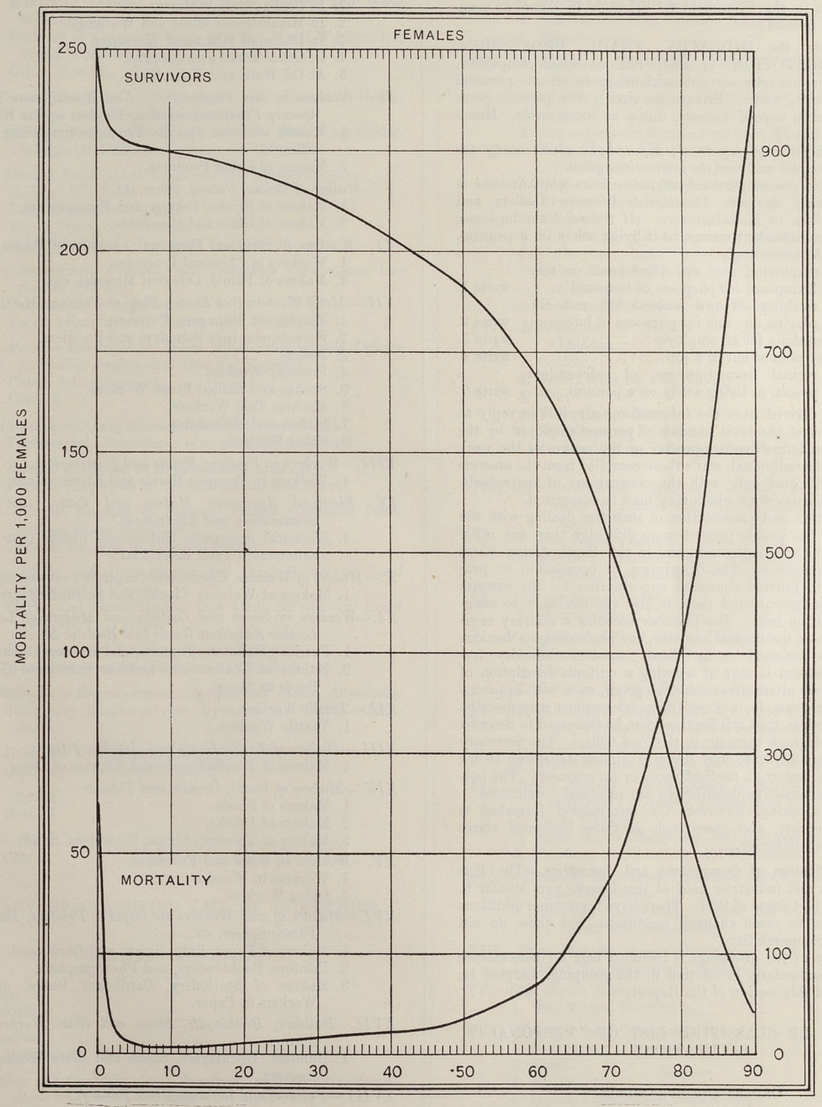
South African Life Tables, 1926 (No. 2).



Graph LXXIV.

PROBABILITY OF DEATH PER 1,000 FEMALES (1,000q_x), AND SURVIVORS OF 1,000,000 FEMALES BORN (l_x) AT EACH YEAR OF AGE.

South African Life Tables, 1926 (No. 2).



Graph LXXV.