

HONG KONG

LIFE TABLES

1971 - 1991



CENSUS AND STATISTICS DEPARTMENT, HONG KONG

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CONTENTS

	Page
Foreword	1
Report	3-9
Table 1 - Life Table, 1971 Mid-Year (Males)	10
Table 2 - Life Table, 1971 Mid-Year (Females)	11
Table 3 - Life Table, 1976 Mid-Year (Males)	12
Table 4 - Life Table, 1976 Mid-Year (Females)	13
Table 5 - Life Table, 1981 Mid-Year (Males)	14
Table 6 - Life Table, 1981 Mid-Year (Females)	15
Table 7 - Life Table, 1986 Mid-Year (Males)	16
Table 8 - Life Table, 1986 Mid-Year (Females)	17
Table 9 - Life Table, 1991 Mid-Year (Males)	18
Table 10 - Life Table, 1991 Mid-Year (Females)	19

FOREWORD

The Life Tables published in this volume are based on the results of the Hong Kong Population and Housing Census held in 1971.

This is the third set of Life Tables published for Hong Kong; the previous ones followed the 1961 Census and the 1966 By-Census. In his foreword to the 1961 set, my predecessor, Mr. K.M.A. Barnett said "The first in a series of Life Tables is not so useful as the second and the third is more useful still". I hope that his words will be justified by the interest shown by specialists and by the general public of Hong Kong. There has been a considerable increase in the expectation of life since 1961, and further increases appear likely in future.

This whole volume, both tables and text, is almost entirely the work of Mr. Joseph LEE Man-kong, statistician, assisted by a team of statistical clerks in the Census & Statistics Department demographic section. I should like to record my appreciation of their dedication and hard work.

K.W.J. TOPLEY
Commissioner for Census & Statistics

January 1973.

1. THE HONG KONG LIFE TABLES

The Hong Kong Life Tables here presented are based on the results of the 1971 Census. Similar tables were prepared after the 1961 Census and the 1966 By-Census, but as life expectancy continues to increase with the expansion of medical and health services, and a parallel improvement in living standards, a new set of tables drawing on the latest information is required.

This report contains life tables by single years of age for both males and females for Hong Kong for the years 1971, 1976, 1981, 1986 and 1991. The data required for the construction of these life tables were the more accurate age distribution of the population and that was obtained from the 1971 Census, and the number of deaths by sex and age occurring during the census year obtained from death registration records. The life tables were then calculated on the basis of the actual annual sex-age-specific death rates for 1971, and the projected rates for the years 1976, 1981, 1986 and 1991. The age-specific death rates for 1971 were derived by relating the number of deaths occurring during 1971 to the mid-year population by sex and single years of age. The age-specific death rates for future years were estimated on the assumption that the trend in these rates in the future would be a continuation of past trends.

The life table gives a single measure of the mortality conditions existing in a given place at a specific period of time, i.e. the expectation of life at birth. This measure is useful for comparing the health standards and social progress of a particular population, either with that of the same population at earlier periods of time or with that of other countries. Basically, the life table traces, through successive ages, the survivors of a hypothetical group or cohort of births on the assumption that the age-specific mortality observed during a given calendar period remains unchanged. The average lifetime of this cohort is the expectation of life at birth.

2. MAIN FEATURES OF MORTALITY RATES

In the table below, the probability of dying (or age-specific mortality rate) from one age to the next in 1971 is compared with that in 1961. This gives the pattern of changes in mortality rates at various ages for both males and females in the decade 1961 to 1971. This shows that, while mortality rates have fallen for all ages, with the exception of males of age group 25 – 29 and females of age group 65 – 69, the greatest reduction has been in the youngest age groups from 0 to 14. The probability of a child born in 1971 dying in his first year of life was about half that of the child born 10 years earlier.

Table 2.1 Mortality rates, 1961 and 1971

Age group	Males			Females		
	1961 mid-year	1971 mid-year	ratio* 1971/1961	1961 mid-year	1971 mid-year	ratio* 1971/1961
0	0.040644	0.023207	0.57	0.034508	0.017121	0.50
1	0.007430	0.001784	0.24	0.007679	0.001551	0.20
2	0.004473	0.001612	0.36	0.004950	0.001150	0.23
3	0.003407	0.001073	0.31	0.002850	0.000974	0.34
4	0.001825	0.000962	0.53	0.001958	0.000639	0.33
5 – 9	0.004804	0.002299	0.48	0.004107	0.001763	0.43
10 – 14	0.003295	0.002441	0.74	0.002298	0.001643	0.71
15 – 19	0.003768	0.003689	0.98	0.003350	0.002591	0.77
20 – 24	0.006446	0.005239	0.81	0.004062	0.003648	0.90
25 – 29	0.007732	0.008444	1.09	0.006316	0.004082	0.65
30 – 34	0.010929	0.010457	0.96	0.007911	0.005591	0.71
35 – 39	0.015103	0.014276	0.95	0.010791	0.008390	0.78
40 – 44	0.023936	0.021461	0.90	0.015345	0.011649	0.76
45 – 49	0.036441	0.031433	0.86	0.020841	0.016974	0.81
50 – 54	0.068457	0.053266	0.78	0.034395	0.028400	0.83
55 – 59	0.094788	0.087330	0.92	0.044732	0.039657	0.89
60 – 64	0.174882	0.138740	0.79	0.074833	0.058556	0.78
65 – 69	0.213840	0.201676	0.94	0.096469	0.099320	1.03
70 – 74	0.324577	0.274879	0.85	0.174125	0.150451	0.86
75 – 79	0.403657	0.396354	0.98	0.268054	0.231376	0.86
80 – 84	0.573602	0.445051	0.78	0.385479	0.357405	0.93
85+	0.676395	0.524198	0.77	0.640859	0.517582	0.81

* Mortality rates for 1971 as a proportion of rates for 1961.

To enable further comparisons to be made with mortality experience in 1961, the following table shows the expectation of life, i.e. the average number of additional years of life at selected ages. The expectation of life at a particular age is an index of the cumulative effect of mortality over the remainder of the span of life after this age.

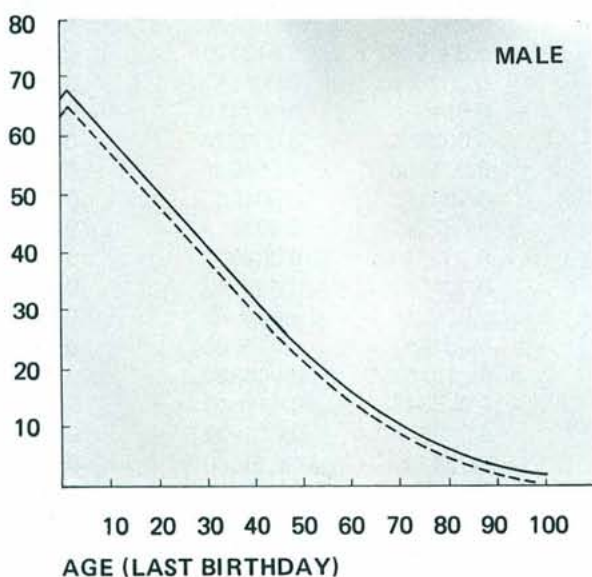
Table 2.2 Expectation of life at selected ages, 1961 and 1971

Age	Males			Females		
	1961 mid-year	1971 mid-year	Difference* 1971 – 1961	1961 mid-year	1971 mid-year	Difference* 1971 – 1961
0	63.64	67.36	+ 3.72	70.51	75.01	+ 4.50
10	57.72	59.47	+ 1.75	64.54	66.76	+ 2.22
20	48.09	49.80	+ 1.71	54.87	57.03	+ 2.16
30	38.71	40.43	+ 1.72	45.39	47.42	+ 2.03
40	29.59	31.33	+ 1.74	36.15	38.00	+ 1.85
50	21.10	22.76	+ 1.66	27.28	28.97	+ 1.69
60	14.01	15.45	+ 1.44	19.12	20.67	+ 1.55
70	8.82	10.13	+ 1.31	11.82	13.34	+ 1.52
80	4.81	6.57	+ 1.76	6.03	7.56	+ 1.53

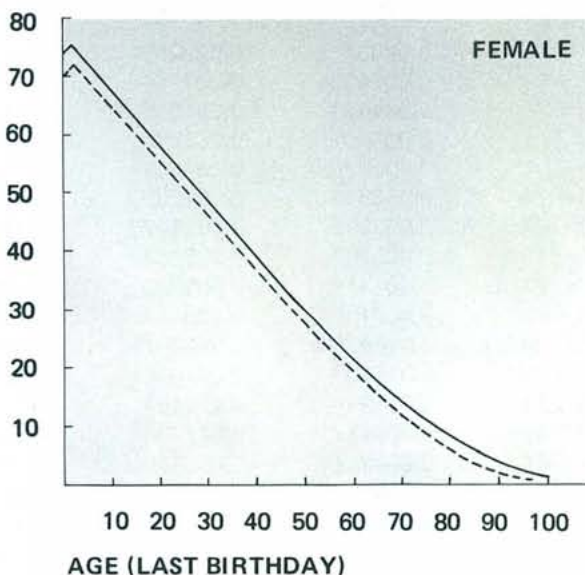
* Difference between expectation of life at each age in 1971 and that in 1961.

It can be seen that life expectancy for both males and females at all ages has improved considerably over the period 1961 to 1971. It is also evident that women are increasing their life expectancy more than men. The pattern of changes in life expectancy for both males and females over this period is depicted in the following diagrams:—

EXPECTED
LIFE (YEARS)



EXPECTED
LIFE (YEARS)



1961 MID-YEAR ----
1971 MID-YEAR —

3. INTERNATIONAL COMPARISON

The expectation of life at birth for Hong Kong in 1971 was 67.36 for males and 75.01 for females, which is comparable to the standard prevailing in developed countries. The following table presents the expectation of life at birth in a number of countries for the most recent years available.

Table 3.1 Comparative expectation of life in selected countries

Country	Period or year	Expectation of life at birth	
		Males	Females
ASIA			
Ceylon	1967	64.8	66.9
Hong Kong	1971	67.36	75.01
India	1951 – 1960	41.89	40.55
Israel	1969	69.19	72.84
Japan	1968	69.05	74.30
Thailand	1960	53.6	58.7
West Malaysia	1966	63.13	66.04
EUROPE			
Austria	1969	66.46	73.34
Belgium	1959 – 1963	67.73	73.51
Denmark	1967 – 1968	70.6	75.4
Finland	1961 – 1965	65.4	72.6
France	1968	68.0	75.5
Italy	1960 – 1962	67.24	72.27
Netherlands	1968	71.0	76.4
Norway	1961 – 1965	71.03	75.97
Sweden	1967	71.85	76.54
Switzerland	1958 – 1963	68.72	74.13
United Kingdom (England and Wales)	1967 – 1969	68.7	74.9
Yugoslavia	1966 – 1967	64.74	68.99
NORTH AMERICA			
Canada	1965 – 1967	68.75	75.18
United States	1968	66.6	74.0
OCEANIA			
Australia	1960 – 1962	67.92	74.18
New Zealand	1960 – 1962	68.44	73.75
USSR	1967 – 1968	65	74

source: Demographic Yearbook 1970, United Nations.

4. CONSTRUCTION OF THE LIFE TABLE

The life tables in this report are known as "current life tables", that is, they show the mortality experience of a population at a particular moment in time. In order to construct such a life table, it is necessary to establish first the sex and age structure of the population at that time; this is normally achieved by a census. It is also necessary to have accurate and complete death registration records, i.e. the number of deaths occurring during the census year, distributed by sex and age. This information is required for computing sex-age-specific death rates from which the probability of dying (or age-specific mortality rate) from one age to another is derived. These values (q_x column of the table) are the basic data required for the construction of the life table.

The life table starts with a hypothetical cohort of births, which is always set at a round figure, in this case 1,000,000. This standardisation facilitates comparisons between different life tables. The initial cohort of 1,000,000 births are all assumed to be born at the same time, i.e. all aged exactly 0 at the date of the table, and thereafter subject to the same mortality conditions as those prevailing at the time when they were born. The life table traces the number from this cohort surviving to any exact age x . The number surviving in terms of the age-specific mortality rate q_x are shown in the l_x column of the table. As the age x increases, the number of survivors l_x decreases, until finally, when x equals 100 years or so, the entire cohort of one million has died and l_x equals zero.

The d_x column of the table shows the number of the life-table cohort at any exact age x , who die during the age interval before attaining the next age. This is calculated by applying the age-specific mortality rate q_x to the number of the cohort at exact age x (l_x). After the number of deaths between any exact age x and the next is calculated, the number surviving from the cohort at the next age (l_{x+1}) is simply l_x minus d_x . For example, in Table 1, the probability of dying within the first year of life, which was derived from actual mortality experience during 1971, was 0.02320693. (it was necessary to calculate the probability of dying to eight decimal places for more accurate result.) That is to say, of the original cohort of 1,000,000 births, 23,207 would have died before attaining exact age 1. Therefore, the number that survived from the cohort at age 1 would be 1,000,000 minus 23,207, i.e. 976,793. This procedure is repeated throughout successive ages, and the l_x column of the table thus derived shows the survivors of the original cohort of 1,000,000 births at different ages.

The L_x column of the table shows the number of years lived by the life-table cohort between any exact age x and the next. If all the persons at age x (l_x) survive to the next age, the total number of years which they have lived during this age interval would be l_x years. However, it can be seen that some of the l_x persons die before attaining the next age. Among those who die between any exact age x to the next (d_x), some may have lived less than a month and some several months etc. For the purpose of the table, it is assumed that they have lived on the average one-half year each. This assumption that deaths are distributed evenly throughout a year of age is reasonable, because mortality does not vary very much between one age and the next. Therefore, the value of L_x is estimated by taking the average of the sum of l_x and l_{x+1} . For example, in Table 1 at age 25, there were 957,743 (l_x) surviving from the original cohort of 1,000,000 births; and 956,332 (l_{x+1}) survived until age 26 or longer; the remainder 1,411 (d_x) died between age 25 and age 26. Thus, 956,332 males lived one year each, or 956,332 person-years between 25 and 26. The 1,411 who died lived on the average one-half year each (based on the assumption above). Therefore, the total number of years lived by the life-table cohort between age 25 and 26 was $956,332 + \frac{1}{2}(1,411)$ or $\frac{1}{2}(957,743 + 956,332)$, i.e. 957,038.

However, mortality of infants and children under 2 years of age does not accord with the above assumption. Deaths of infants are high and tend to be concentrated in the first few months of life, and, although mortality decreases in the second year, the deaths are still concentrated in the early months. Thus, it cannot be assumed that each child dying has lived, on the average, half a year between the ages of 0 and 1, and of 1 and 2. It is no longer correct to use the factor of $\frac{1}{2}$ or .5 for l_x and l_{x+1} to estimate the value of L_x . It is recommended in **Manual III: Methods for Population Projections by Sex and Age, United Nations** that the factors .3 and .7 respectively for l_0 and l_1 , and .4 and .6 for l_1 and l_2 should be used. The number of years lived by the original births between the ages of 0 and 1, and of 1 and 2 is therefore estimated as follows:—

$$\begin{aligned} L_0 &= .3l_0 + .7l_1 \\ L_1 &= .4l_1 + .6l_2 \end{aligned}$$

The T_x column of the table shows the total number of years lived by the life-table cohort after any exact age x . This is calculated by taking the sum of the years lived by the cohort between one exact age and the next after age x . For example, in Table 1, the total number of years lived by the life-table cohort (963,208) after exact age 20 was the sum of the L_x column at age 20 and thereafter, i.e. 47,963,180. The total number of years lived by the life-table cohort (1,000,000) after birth was the sum of the whole L_x column, i.e. 67,357,674.

The e_x column of the table gives the expectation of life at any exact age x , that is, the average number of years which the survivors of the original births at age x will live. This is equal to the total number of years lived by this cohort after age x (T_x), divided by the number of persons who survive at that age (l_x). For example, in Table 1, the total number of years lived by the life-table cohort (939,303) after exact age 35 was 33,667,746. Thus, the expectation of life at age 35 for men in Hong Kong in 1971 was given by $33,667,746 \div 939,303$, i.e. 35.84 years. That is to say, a man at exact age 35 in 1971 can expect to live, on the average, to 70.84 years, i.e. his age + 35.84 if he is subject for the remainder of his life to the same mortality risks as in 1971. With the improvement in standards of living and sanitary conditions, and in medical and health services in Hong Kong in future years, it can be expected that the future mortality risks will be less than those in 1971. Hence, the survivors of these persons in future years can expect to live, on the average, to an age higher than 70.84. For example, those males attaining age 35 in 1971 who have survived and thus are 45 in 1981, can be seen from the 1981 Life Table (Table 5) to have a further life expectation of 27.38; this means that they will live, on the average, to 72.38 years.

The average number of years which the original cohort of 1,000,000 births can expect to live is the expectation of life at birth. This is equal to the total number of years lived by the life-table cohort after birth, divided by the number of the cohort (1,000,000). For example, in Table 1, the total number of years lived by the original births was 67,357,674, and the average number of years per birth, i.e. the expectation of life at birth was 67.36. That is to say, a new-born baby in Hong Kong in 1971 can expect, on the average, to live 67.36 years if, throughout his lifetime, he is subject to the same mortality risks as in 1971.

It can be seen that the mean age at death of those at any exact age x , i.e. age $x + e_x$ will be greater than the expectation of life at birth, which is the mean age at death of the original births. This is so, because once people survive x year after birth, they will have overcome the hazards of life in those x years and can expect to live to a riper age than those just starting life.

5. CALCULATION OF MORTALITY RATES

Mortality rates at ages 0 to 4 – The formula adopted for the calculation of the mortality rates for these ages are as follows:—

- (a) mortality rates at age 0, i.e. infant mortality (q_0^z)

$$q_0^z = \frac{(1 - f_0) \cdot D_0^z}{B^z} + \frac{f_0 \cdot D_0^z}{B^{z-1}}$$

where z = calendar year 1971

f_0 = proportion of infant deaths within calendar year 1971 which occurred among births of the preceding year

D_0^z = number of infant deaths between birth and age one year in calendar year 1971

B^z = total number of live births in calendar year 1971

B^{z-1} = total number of live births in calendar year 1970.

The separation factor f_0 has been found to vary between about .1 and .3, and it was assumed in this calculation to be equal to .3.

- (b) mortality at ages 1 to 4 (q_x^z)

$$q_x^z = 1 - \frac{P_x^{z+1}}{E_x^z} \cdot \frac{E_{x+1}^z}{P_x^z}$$

where x = exact age as specified (i.e. 1, 2, 3, or 4)

z = calendar year 1971

P_x^z = number living at beginning of calendar year 1971 who were aged x at their last birthday

P_x^{z+1} = number living at beginning of calendar year 1972 who were aged x at their last birthday

E_x^z = number attaining exact age x during calendar year 1971

E_{x+1}^z = number attaining exact age $x + 1$ during calendar year 1971.

In the absence of migration, not an unreasonable assumption for these young ages, the number of P_x^{z+1} and E_{x+1}^z could be estimated by the following formulae:—

$$P_x^{z+1} = E_x^z - {}_aD_x^z$$

$$E_{x+1}^z = P_x^z - {}_bD_x^z$$

where D_x^z = number dying during calendar year 1971 who were aged x at their last birthday

${}_aD_x^z$ = number who attained exact age x during calendar year 1971 and died before the end of 1971

${}_bD_x^z$ = number who entered calendar year 1971 at age x last birthday and died before attaining exact age $x + 1$.

The number of ${}_aD_x^z$ and ${}_bD_x^z$ could be estimated by the following formulae:—

$${}_aD_x^z = (1 - f_x) \cdot D_x^z$$

$${}_bD_x^z = f_x \cdot D_x^z$$

In this calculation, the separation factor f_x was assumed to be equal to .5 for all ages after the first year of life.

Mortality rates at ages 5 and over — In order to compute mortality rates at single years of age for ages 5 and over, it is necessary to adjust first the basic population and death data for any misstatements of age. In this calculation, the mid-year population and the total number of deaths in Hong Kong for the calendar year 1971 were arranged in the quinquennial age grouping 4 – 8, which was found to give the least age reporting error. From these grouped data, graduated values of population and deaths at single years of age were obtained by osculatory interpolation using Sprague's multipliers. Mortality rates at single years of age for each sex at ages 5 and over (q_x) were then computed by the following formula:—

$$q_x = \frac{2M_x}{2 + M_x}$$

where M_x = age-specific death rate in the population for calendar year 1971.

Mortality rates at very old ages — It was considered that it would not be advisable to accept, as calculated from the data, the mortality rates at the extreme ages of life, because of the large number of age misstatements and the small size of the surviving population. Since the assumption made about the pattern of mortality for this period of life will generally have only a very small effect on the life-table functions, it is appropriate to apply some suitable mathematical formulae to estimate these mortality rates. Therefore, the method employed in this calculation was to assume that mortality rates followed a Gompertz curve. With the constants determined the curve fitted well with the values of q_x from about age 20 to 90 for each sex. The mortality rates at ages 89 to the end of the life table for each sex were then estimated from the curve accordingly.

Projected mortality rates for 1976, 1981, 1986 and 1991 — The estimation of future mortality rates for preparing the life tables in this report for these years was based on the assumption that the death rates for the calendar year 1971 would continue to decrease along an exponential curve in the future. A series of sex-age-specific death rates in the population of Hong Kong for each calendar year of the period 1961 – 1971 was prepared, and with these data a set of "mortality indices" for each of the broad age groups (i.e. 0, 1 – 4, 5 – 24, 25 – 39, 40 – 54 and 55 & over) was computed and fitted to a curve in the form of an exponential function by the method of "least squares". The future "mortality index" for a particular broad age group and for each successive calendar period of one year could be extrapolated from the curve accordingly. A ratio of this future "mortality index" to the "mortality index" for the same broad age group for the calendar year 1971 was then derived. This ratio was applied direct to the mortality rates at ages 0 – 4, and 89 & over for the calendar year 1971 to supply the projected mortality rates at these ages for a future calendar period. As for ages 5 – 88, the projected mortality rates were arrived at by the following computation:—

$$q_x^z = \frac{2M_x^z}{2 + M_x^z}$$

$$M_x^z = u^z \cdot M_x$$

where z = future calendar period as specified

M_x^z = projected age-specific death rate in the population for calendar period z

u^z = ratio of "mortality index" for calendar period z to "mortality index" for same broad age group for 1971.

Hong Kong Life Tables
1971 - 1991

Table 1

HONG KONG LIFE TABLE, 1971 MID-YEAR

MALES

Age X	M_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.02320693	1,000,000	23,207	983,755	67,357,674	67.36
1		0.00178357	976,793	1,742	975,748	66,373,919	67.95
2		0.00161224	975,051	1,572	974,265	65,398,171	67.07
3		0.00107336	973,479	1,045	972,957	64,423,906	66.18
4		0.00096218	972,434	936	971,966	63,450,949	65.25
5	0.00057164	0.00057148	971,498	555	971,221	62,478,983	64.31
6	0.00051301	0.00051288	970,943	498	970,694	61,507,762	63.35
7	0.00048930	0.00048918	970,445	475	970,208	60,537,068	62.38
8	0.00047467	0.00047456	969,970	460	969,740	59,566,860	61.41
9	0.00046676	0.00046665	969,510	452	969,284	58,597,120	60.44
10	0.00046401	0.00046390	969,058	450	968,833	57,627,836	59.47
11	0.00046784	0.00046773	968,608	453	968,382	56,659,003	58.50
12	0.00049721	0.00049709	968,155	481	967,915	55,690,621	57.52
13	0.00051149	0.00051136	967,674	495	967,427	54,722,706	56.55
14	0.00055165	0.00055150	967,179	533	966,913	53,755,279	55.58
15	0.00059994	0.00059976	966,646	580	966,356	52,788,366	54.61
16	0.00065380	0.00065359	966,066	631	965,751	51,822,010	53.64
17	0.00071117	0.00071092	965,435	686	965,092	50,856,259	52.68
18	0.00076824	0.00076795	964,749	741	964,379	49,891,167	51.71
19	0.00083030	0.00082996	964,008	800	963,608	48,926,788	50.75
20	0.00092656	0.00092613	963,208	892	962,762	47,963,180	49.80
21	0.00100964	0.00100913	962,316	971	961,831	47,000,418	48.84
22	0.00112103	0.00112040	961,345	1,077	960,807	46,039,587	47.89
23	0.00123017	0.00122941	960,268	1,181	959,678	45,077,780	46.94
24	0.00140221	0.00140123	959,087	1,344	958,415	44,118,102	46.00
25	0.00147441	0.00147332	957,743	1,411	957,038	43,159,687	45.06
26	0.00167406	0.00167266	956,332	1,600	955,532	42,202,649	44.13
27	0.00177405	0.00177248	954,732	1,692	953,886	41,247,117	43.20
28	0.00184894	0.00184723	953,040	1,760	952,160	40,293,231	42.28
29	0.00190162	0.00189981	951,280	1,807	950,377	39,341,071	41.36
30	0.00194653	0.00194464	949,473	1,846	948,550	38,390,694	40.43
31	0.00202205	0.00202001	947,627	1,914	946,670	37,442,144	39.51
32	0.00216728	0.00216493	945,713	2,047	944,690	36,495,474	38.59
33	0.00224117	0.00223866	943,666	2,113	942,510	35,550,784	37.67
34	0.00239296	0.00239010	941,553	2,250	940,428	34,608,174	36.76
35	0.00247784	0.00247477	939,303	2,325	938,141	33,667,746	35.84
36	0.00265334	0.00264982	936,978	2,483	935,737	32,729,605	34.93
37	0.00283907	0.00283505	934,495	2,649	933,171	31,793,868	34.02
38	0.00303900	0.00303902	931,846	2,878	930,407	30,860,657	33.12
39	0.00339034	0.00338460	928,968	3,144	927,396	29,930,290	32.22
40	0.00350770	0.00350156	925,824	3,242	924,203	29,002,894	31.33
41	0.00382230	0.00381501	922,582	3,520	920,822	28,078,691	30.43
42	0.00410001	0.00409162	919,062	3,760	917,182	27,157,869	29.55
43	0.00446233	0.00445240	915,302	4,075	913,265	26,240,687	28.67
44	0.00491551	0.00490346	911,227	4,468	909,993	25,327,422	27.79
45	0.00542211	0.00540745	906,759	4,903	904,308	24,418,429	26.93
46	0.00597534	0.00595754	901,856	5,373	899,170	23,514,121	26.07
47	0.00670267	0.00668028	896,483	5,985	893,489	22,614,951	25.23
48	0.00740705	0.00739712	890,494	6,572	887,208	21,721,462	24.39
49	0.00814313	0.00811011	883,922	7,169	880,338	20,834,254	23.57
50	0.00900167	0.00896134	876,753	7,857	872,825	19,953,916	22.76
51	0.00987768	0.00982914	868,896	8,541	864,626	19,081,091	21.96
52	0.01087071	0.01081194	860,355	9,302	855,704	18,216,465	21.17
53	0.01201398	0.01194224	851,053	10,163	845,972	17,360,761	20.40
54	0.01327254	0.01318504	840,890	11,087	835,347	16,514,789	19.64
55	0.01430611	0.01420450	829,803	11,787	823,910	15,679,442	18.90
56	0.01598762	0.01586083	818,016	12,974	811,529	14,855,532	18.16
57	0.01805639	0.01789483	805,042	14,406	797,839	14,044,003	17.45
58	0.02035761	0.02015248	790,636	15,933	782,670	13,246,164	16.75
59	0.02276232	0.02250617	774,703	17,436	765,985	12,463,494	16.09
60	0.02529885	0.02498283	757,267	18,919	747,808	11,697,509	15.45
61	0.02767493	0.02729721	738,348	20,155	728,271	10,949,701	14.83
62	0.02969976	0.02926518	718,193	21,018	707,684	10,221,430	14.23
63	0.03182387	0.03132542	697,175	21,839	686,256	9,513,746	13.65
64	0.03471741	0.03412504	675,336	23,046	663,813	8,827,490	13.07
65	0.03859314	0.03786252	652,290	24,697	639,942	8,163,677	12.52
66	0.04308496	0.04217638	627,593	26,470	614,358	7,523,735	11.99
67	0.04766810	0.04655842	601,123	27,987	587,130	6,909,377	11.49
68	0.05150531	0.04978243	573,136	28,532	558,670	6,322,247	11.03
69	0.05327539	0.05189308	544,604	28,261	530,474	5,763,377	10.58
70	0.05526733	0.05378116	516,343	27,770	502,458	5,232,903	10.13
71	0.05727836	0.05568363	488,573	27,206	474,970	4,730,445	9.68
72	0.06028701	0.05822292	461,367	27,001	447,867	4,255,475	9.22
73	0.06616980	0.06405069	434,366	27,821	420,456	3,807,608	8.77
74	0.07430065	0.07163923	406,545	29,125	391,983	3,387,152	8.33
75	0.08344255	0.08010065	377,420	30,222	362,304	2,995,169	7.94
76	0.09563091	0.09126694	347,188	31,687	331,345	2,632,865	7.58
77	0.10540704	0.10012984	315,501	31,591	299,706	2,301,520	7.29
78	0.11105246	0.10521052	283,910	29,870	268,975	2,001,814	7.05
79	0.11181281	0.10589273	254,040	26,901	240,590	1,732,839	6.82
80	0.11220444	0.10624392	227,139	24,132	215,073	1,492,249	6.57
81	0.11144760	0.10565511	203,007	21,430	192,292	1,277,176	6.29
82	0.11328746	0.10721443	181,577	19,468	171,843	1,084,884	5.97
83	0.12130589	0.11436907	162,109	18,540	152,839	913,041	5.63
84	0.13315565	0.12484382	143,569	17,924	134,607	760,202	5.30
85	0.14887541	0.13856123	125,645	17,410	116,940	625,595	4.98
86	0.16100812	0.14901205	108,235	16,128	100,171	508,655	4.70
87	0.17395821	0.16003823	92,107	14,741	84,737	408,484	4.43
88	0.17879469	0.16412257	77,366	12,698	71,017	323,747	4.18
89		0.17542799	64,668	11,345	58,996	252,730	3.91
90		0.19065556	53,323	10,166	48,240	193,734	3.63
91		0.20727066	43,157	8,945	38,685	145,494	3.37
92		0.22540541	34,212	7,712	30,356	106,809	3.12
93		0.24520518	26,500	6,498	23,251	76,453	2.89
94		0.26682604	20,002	5,337	17,334	53,202	2.66
95		0.29045463	14,665	4,260	12,535	35,868	2.45
96		0.31627388	10,405	3,291	8,760	23,333	2.24
97		0.34449972	7,114	2,451	5,889	14,573	2.05
98		0.37536684	4,663	1,750	3,788	8,684	1.86
99		0.40913333	2,913	1,192	2,317	4,896	1.68
100+		1.00000000	1,721	1,721	2,579	2,579	1.50

Table 2

HONG KONG LIFE TABLE, 1971 MID-YEAR

FEMALE

Age X	M_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.01712141	1,000,000	17,121	988,015	75,012,177	75.01
1		0.00155107	982,879	1,525	981,964	74,024,162	75.31
2		0.00115020	981,354	1,129	980,790	73,042,198	74.43
3		0.00097407	980,225	955	979,748	72,061,408	73.52
4		0.00063932	979,270	626	978,957	71,081,660	72.59
5	0.00044471	0.00044461	978,644	435	978,427	70,102,703	71.63
6	0.00038965	0.00038957	978,209	381	978,019	69,124,276	70.66
7	0.00034642	0.00034636	977,828	339	977,659	68,146,257	69.69
8	0.00031385	0.00031380	977,489	307	977,336	67,168,598	68.72
9	0.00030879	0.00030874	977,182	302	977,031	66,191,262	67.74
10	0.00030739	0.00030734	976,880	300	976,730	65,214,231	66.76
11	0.00031061	0.00031056	976,580	303	976,429	64,237,501	65.78
12	0.00033969	0.00033963	976,277	332	976,111	63,261,072	64.80
13	0.00037319	0.00037312	975,945	364	975,763	62,284,961	63.82
14	0.00041143	0.00041135	975,581	401	975,381	61,309,198	62.84
15	0.00045571	0.00045561	975,180	444	974,958	60,333,817	61.87
16	0.00047895	0.00047884	974,736	467	974,503	59,358,859	60.90
17	0.00052912	0.00052898	974,269	515	974,012	58,384,356	59.93
18	0.00057584	0.00057567	973,754	561	973,474	57,410,344	58.96
19	0.00062723	0.00062703	973,193	610	972,888	56,436,870	57.99
20	0.00068280	0.00068257	972,583	664	972,251	55,463,982	57.03
21	0.00068604	0.00068580	971,919	667	971,586	54,491,731	56.07
22	0.00071035	0.00071010	971,252	690	970,907	53,520,145	55.10
23	0.00071629	0.00071603	970,562	695	970,215	52,549,238	54.14
24	0.00072433	0.00072407	969,867	702	969,516	51,579,023	53.18
25	0.00074072	0.00074045	969,165	718	968,806	50,609,507	52.22
26	0.00079393	0.00079361	968,447	769	968,063	49,640,701	51.26
27	0.00080471	0.00080439	967,678	778	967,289	48,672,638	50.30
28	0.00082296	0.00082262	966,900	795	966,503	47,705,349	49.34
29	0.00088894	0.00088855	966,105	858	965,676	46,738,846	48.38
30	0.00088945	0.00088905	965,247	858	964,818	45,773,170	47.42
31	0.00093492	0.00093448	964,389	901	963,939	44,808,352	46.46
32	0.00107721	0.00107663	963,488	1,037	962,970	43,844,413	45.51
33	0.00118994	0.00118923	962,451	1,145	961,879	42,881,443	44.55
34	0.00129115	0.00129032	961,306	1,240	960,686	41,919,564	43.61
35	0.00141576	0.00141476	960,066	1,358	959,387	40,958,878	42.66
36	0.00149353	0.00149242	958,708	1,431	957,993	39,999,491	41.72
37	0.00162947	0.00162814	957,277	1,559	956,498	39,041,498	40.78
38	0.00182449	0.00182283	955,718	1,742	954,847	38,085,000	39.85
39	0.00197136	0.00196942	953,976	1,879	953,037	37,130,153	38.92
40	0.00208338	0.00208121	952,097	1,982	951,106	36,177,116	38.00
41	0.00224648	0.00224396	950,115	2,132	949,049	35,226,010	37.08
42	0.00234362	0.00234088	947,983	2,219	946,874	34,276,961	36.16
43	0.00249211	0.00248901	945,764	2,354	944,587	33,330,087	35.24
44	0.00265231	0.00264880	943,410	2,499	942,161	32,385,500	34.33
45	0.00280252	0.00279860	940,911	2,633	939,595	31,443,339	33.42
46	0.00303000	0.00302542	938,278	2,839	936,859	30,503,744	32.51
47	0.00345861	0.00345264	935,439	3,230	933,824	29,566,885	31.61
48	0.00397432	0.00397432	932,209	3,705	930,357	28,633,061	30.72
49	0.00447685	0.00446685	928,504	4,147	926,431	27,702,704	29.84
50	0.00507568	0.00506283	924,357	4,680	922,017	26,776,273	28.97
51	0.00551895	0.00550376	919,677	5,062	917,146	25,854,256	28.11
52	0.00598485	0.00596939	914,615	5,457	911,887	24,937,110	27.27
53	0.00633274	0.00631275	909,158	5,859	906,288	24,025,223	26.43
54	0.00672455	0.00670202	903,419	6,055	900,392	23,118,934	25.59
55	0.00693683	0.00691285	897,364	6,203	894,263	22,218,542	24.76
56	0.00747722	0.00744937	891,161	6,639	887,842	21,324,279	23.93
57	0.00798866	0.00796588	884,522	7,038	881,003	20,436,437	23.10
58	0.00858875	0.00856214	877,484	7,565	873,702	19,555,434	22.29
59	0.00928496	0.00924205	869,919	8,040	865,899	18,681,732	21.48
60	0.01005844	0.01000811	861,879	8,626	857,566	17,815,833	20.67
61	0.01085464	0.01079605	853,253	9,212	848,647	16,958,267	19.87
62	0.01186013	0.01188903	844,041	10,003	839,024	16,109,620	19.09
63	0.01331153	0.01322352	834,006	11,028	828,492	15,270,596	18.31
64	0.01477809	0.01466969	822,978	12,073	816,942	14,442,104	17.55
65	0.01649522	0.01636029	810,905	13,267	804,272	13,625,162	16.80
66	0.01852892	0.01835884	797,638	14,644	790,316	12,820,890	16.07
67	0.02062122	0.02041177	782,994	16,292	775,003	12,030,574	15.36
68	0.02276203	0.02250589	767,012	17,262	758,381	11,255,571	14.67
69	0.02502692	0.02471762	749,750	18,532	740,484	10,497,190	14.00
70	0.02738984	0.02701981	731,218	19,757	721,340	9,756,706	13.34
71	0.02975660	0.02932036	711,461	20,860	701,031	9,035,366	12.70
72	0.03201547	0.03151105	690,601	21,762	679,720	8,334,335	12.07
73	0.03478986	0.03419504	668,839	22,871	657,404	7,654,615	11.44
74	0.03824597	0.03752832	645,968	24,242	633,847	6,997,211	10.83
75	0.04194009	0.04107867	621,726	25,540	608,956	6,363,364	10.23
76	0.04673557	0.04566840	596,186	27,227	582,573	5,754,408	9.65
77	0.05269425	0.05134155	568,959	29,211	554,354	5,171,835	9.09
78	0.05941227	0.05769828	539,748	31,143	524,177	4,617,481	8.55
79	0.06598830	0.06388061	508,605	32,490	492,360	4,093,304	8.05
80	0.07564473	0.07288794	476,115	34,703	458,764	3,600,944	7.56
81	0.08264659	0.07936689	441,412	35,033	423,896	3,142,180	7.12
82	0.09026172	0.08636404	406,379	35,097	388,831	2,718,284	6.69
83	0.09692046	0.09244076	371,282	34,322	354,121	2,329,453	6.27
84	0.10509796	0.09985090	336,960	33,646	320,137	1,975,332	5.86
85	0.11536034	0.10906921	303,314	33,082	286,773	1,655,195	5.46
86	0.12748203	0.11984311	270,232	32,385	254,040	1,368,422	5.06
87	0.14076455	0.13150867	237,847	31,279	222,208	1,114,392	4.69
88	0.15059270	0.14004763	206,568	29,929	192,104	892,174	4.32
89		0.15755151	177,639	27,987	163,646	700,070	3.94
90		0.17889242	149,652	26,472	136,416	536,424	3.58
91		0.19887881	123,180	24,498	110,931	400,008	3.25
92		0.22390699	98,682	22,096	87,634	289,077	2.93
93		0.25243729	76,586	19,333	66,920	201,443	2.63
94		0.28500549	57,253	16,317	49,095	134,523	2.35
95		0.32223611	40,936	13,191	34,341	85,428	2.09
96		0.36485794	27,745	10,123	22,584	51,087	1.84
97		0.41372247	17,622	7,291	13,977	28,403	1.61
98		0.46982695	10,331	4,854	7,904	14,426	1.40
99		0.53433998	5,477	2,927	4,014	6,522	1.19
100*		1.00000000	2,550	2,550	2,508	2,508	0.98

Table 3

HONG KONG LIFE TABLE, 1976 MID-YEAR

MALES

Age X	M'_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.02052710	1,000,000	20,527	985,631	67,989,349	67.99
1		0.00140290	979,473	1,374	978,648	67,003,718	68.41
2		0.00126814	978,099	1,240	977,479	66,025,070	67.50
3		0.00084427	976,859	825	976,447	65,047,591	66.59
4		0.00075682	976,034	739	975,665	64,071,144	65.64
5	0.00051794	0.00051781	975,295	505	975,043	63,095,479	64.69
6	0.00046481	0.00046470	974,790	453	974,564	62,120,436	63.73
7	0.00044333	0.00044323	974,337	432	974,121	61,145,872	62.76
8	0.00043007	0.00042998	973,905	419	973,696	60,171,751	61.78
9	0.00042291	0.00042282	973,486	412	973,280	59,198,055	60.81
10	0.00042042	0.00042033	973,074	409	972,870	58,224,775	59.84
11	0.00042389	0.00042380	972,665	412	972,459	57,251,905	58.86
12	0.00045050	0.00045040	972,253	438	972,034	56,279,446	57.89
13	0.00046344	0.00046333	971,815	450	971,590	55,307,412	56.91
14	0.00049983	0.00049971	971,365	485	971,123	54,335,822	55.94
15	0.00054358	0.00054343	970,880	528	970,616	53,364,699	54.97
16	0.00059237	0.00059219	970,352	575	970,065	52,394,063	53.99
17	0.00064435	0.00064414	969,777	625	969,465	51,424,018	53.03
18	0.00069607	0.00069583	969,152	674	968,815	50,454,553	52.06
19	0.00075230	0.00075202	968,478	728	968,114	49,485,738	51.10
20	0.00083951	0.00083916	967,750	812	967,344	48,517,624	50.13
21	0.00091478	0.00091436	966,938	884	966,496	47,550,280	49.18
22	0.00101571	0.00101519	966,054	981	965,564	46,583,784	48.22
23	0.00111460	0.00111398	965,073	1,075	964,536	45,618,220	47.27
24	0.00127048	0.00126967	963,998	1,224	963,386	44,653,684	46.32
25	0.00142539	0.00142437	962,774	1,371	962,089	43,690,288	45.38
26	0.00161840	0.00161709	961,403	1,555	960,626	42,728,209	44.44
27	0.00171506	0.00171359	959,848	1,645	959,028	41,767,583	43.51
28	0.00178746	0.00178586	958,203	1,711	957,348	40,808,557	42.59
29	0.00183839	0.00183670	956,492	1,757	955,614	39,851,209	41.66
30	0.00188181	0.00188004	954,735	1,795	953,838	38,895,595	40.74
31	0.00195482	0.00195291	952,940	1,861	952,010	37,941,757	39.82
32	0.00209522	0.00209303	951,079	1,991	950,084	36,989,747	38.89
33	0.00216666	0.00216432	949,088	2,054	948,061	36,039,663	37.97
34	0.00231339	0.00231072	947,034	2,188	945,940	35,091,602	37.05
35	0.00239545	0.00239258	944,846	2,261	943,716	34,145,662	36.14
36	0.00256512	0.00256183	942,585	2,415	941,378	33,201,946	35.22
37	0.00274467	0.00274091	940,170	2,577	938,882	32,260,568	34.31
38	0.00299093	0.00298646	937,593	2,800	936,193	31,321,686	33.41
39	0.00327761	0.00327225	934,793	3,059	933,264	30,385,493	32.51
40	0.0034797	0.00344237	931,734	3,114	930,177	29,452,229	31.61
41	0.00364824	0.00364160	928,620	3,382	926,929	28,522,052	30.71
42	0.00391331	0.00390567	925,238	3,614	923,431	27,595,123	29.82
43	0.00425913	0.00425008	921,624	3,917	919,666	26,671,692	28.94
44	0.00469167	0.00468069	917,707	4,296	915,559	25,752,026	28.06
45	0.00517520	0.00516184	913,411	4,715	911,054	24,836,467	27.19
46	0.00570324	0.00568702	908,696	5,168	906,112	23,925,413	26.33
47	0.00639745	0.00637705	903,528	5,762	900,647	23,019,301	25.48
48	0.00705976	0.00704486	897,766	6,325	894,604	22,118,654	24.64
49	0.00777232	0.00774223	891,441	6,902	887,990	21,224,050	23.81
50	0.00859176	0.00855501	884,539	7,567	880,756	20,336,060	22.99
51	0.00942788	0.00938365	876,972	8,229	872,858	19,455,304	22.18
52	0.01037569	0.01032214	868,743	8,967	864,260	18,582,446	21.39
53	0.01146690	0.01140153	859,776	9,803	854,875	17,718,186	20.61
54	0.01266815	0.01258941	849,973	10,700	844,623	16,863,311	19.84
55	0.01401311	0.01391561	839,273	11,679	833,434	16,018,688	19.09
56	0.01566018	0.01553851	827,594	12,860	821,164	15,185,254	18.35
57	0.01768658	0.01753154	814,734	14,284	807,592	14,364,090	17.63
58	0.01994067	0.01974382	800,450	15,804	792,548	13,556,498	16.94
59	0.02229613	0.02205031	784,646	17,302	775,995	12,763,950	16.27
60	0.02478071	0.02447743	767,344	18,783	757,953	11,987,955	15.62
61	0.02710813	0.02674562	748,561	20,021	738,551	11,230,002	15.00
62	0.02909148	0.02867439	728,540	20,890	718,095	10,491,451	14.40
63	0.03117209	0.03069370	707,650	21,720	696,790	9,773,356	13.81
64	0.03400637	0.03343782	685,930	22,936	674,462	9,076,566	13.23
65	0.03780273	0.03710146	662,994	24,598	650,695	8,402,104	12.67
66	0.04220254	0.04133042	638,396	26,385	625,204	7,751,409	12.14
67	0.04669182	0.04562662	612,011	27,924	598,049	7,126,205	11.64
68	0.05000760	0.04878772	584,087	28,496	569,839	6,528,156	11.18
69	0.05218427	0.05085729	555,591	28,256	541,463	5,958,317	10.72
70	0.05413541	0.05270871	527,335	27,795	513,438	5,416,854	10.27
71	0.05610526	0.05467431	499,540	27,262	485,909	4,903,416	9.82
72	0.05905229	0.05735871	472,278	27,089	458,734	4,417,507	9.35
73	0.06481459	0.06278006	445,189	27,949	431,215	3,958,773	8.89
74	0.07277892	0.07022352	417,240	29,300	402,590	3,527,558	8.45
75	0.08173359	0.07852454	387,940	30,463	372,709	3,124,969	8.06
76	0.09367231	0.08948135	357,477	31,988	341,483	2,752,259	7.70
77	0.10324822	0.09817978	325,489	31,956	309,511	2,410,776	7.41
78	0.10877802	0.10316688	293,533	30,283	278,392	2,101,265	7.16
79	0.10952279	0.10383656	263,250	27,335	249,583	1,822,873	6.92
80	0.10990640	0.10418130	235,915	24,578	223,626	1,573,290	6.67
81	0.10916507	0.10351496	211,337	21,877	200,399	1,349,664	6.39
82	0.11096724	0.10513402	189,460	19,919	179,501	1,149,265	6.07
83	0.11882146	0.11215807	169,541	19,015	160,034	969,764	5.72
84	0.13042852	0.12244346	150,526	18,431	141,311	809,730	5.38
85	0.14582633	0.13591625	132,095	17,954	123,118	668,419	5.06
86	0.15771055	0.14618323	114,141	16,686	105,798	545,301	4.78
87	0.17039541	0.15701785	97,455	15,302	89,804	439,503	4.51
88	0.17513283	0.16103185	82,153	13,229	75,539	349,699	4.26
89		0.17183509	68,924	11,844	63,002	274,160	3.98
90		0.18675079	57,080	10,660	51,750	211,158	3.70
91		0.20302559	46,420	9,424	41,708	159,408	3.43
92		0.22078893	36,996	8,163	32,912	117,700	3.18
93		0.24018319	28,828	6,924	25,266	84,788	2.94
94		0.26136123	21,904	5,725	19,042	59,422	2.71
95		0.28450589	16,179	4,603	13,878	40,380	2.50
96		0.30979635	11,576	3,586	9,783	26,520	2.29
97		0.33744410	7,990	2,696	6,642	16,719	2.09
98		0.36767904	5,294	1,946	4,321	10,077	1.90
99		0.40075356	3,348	1,342	2,677	5,756	1.72
100+		1.00000000	2,006	2,006	3,079	3,079	1.53

Table 4

HONG KONG LIFE TABLE, 1976 MID-YEAR

FEMALES

Age X	M'_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.01514431	1,000,000	15,144	989,399	75,544,943	75.54
1		0.00122002	984,856	1,202	984,134	74,555,544	75.70
2		0.00090471	983,654	890	983,209	73,571,410	74.79
3		0.00076617	982,764	753	982,388	72,588,201	73.86
4		0.00050287	982,011	494	981,764	71,605,813	72.92
5	0.00040294	0.00040286	981,517	395	981,320	70,624,049	71.95
6	0.00035304	0.00035298	981,122	346	980,949	69,642,729	70.98
7	0.00031388	0.00031383	980,776	308	980,622	68,661,780	70.01
8	0.00028436	0.00028432	980,468	279	980,329	67,681,158	69.03
9	0.00027978	0.00027974	980,189	274	980,052	66,700,829	68.05
10	0.00027851	0.00027847	979,915	273	979,779	65,720,777	67.07
11	0.00028143	0.00028139	979,642	276	979,504	64,740,998	66.09
12	0.00030777	0.00030772	979,366	301	979,216	63,761,494	65.10
13	0.00033813	0.00033807	979,065	331	978,900	62,782,278	64.12
14	0.00037278	0.00037271	978,734	365	978,552	61,803,378	63.15
15	0.00041289	0.00041280	978,369	404	978,167	60,824,826	62.17
16	0.00043395	0.00043386	977,965	424	977,753	59,846,659	61.20
17	0.00047941	0.00047930	977,541	469	977,307	58,868,906	60.22
18	0.00052174	0.00052160	977,072	510	976,817	57,891,599	59.25
19	0.00056831	0.00056815	976,562	555	976,285	56,914,782	58.28
20	0.00061865	0.00061846	976,007	604	975,705	55,938,497	57.31
21	0.00062159	0.00062140	975,403	606	975,100	54,962,792	56.35
22	0.00064361	0.00064340	974,797	627	974,484	53,987,692	55.38
23	0.00064900	0.00064879	974,170	632	973,854	53,013,208	54.42
24	0.00065628	0.00065606	973,538	639	973,219	52,039,354	53.45
25	0.00071609	0.00071583	972,899	696	972,551	51,066,135	52.49
26	0.00076753	0.00076724	972,203	746	971,830	50,093,584	51.53
27	0.00077796	0.00077766	971,457	755	971,080	49,121,754	50.57
28	0.00079559	0.00079527	970,702	772	970,316	48,150,674	49.60
29	0.00085938	0.00085901	969,930	833	969,514	47,180,358	48.64
30	0.00085988	0.00085951	969,097	833	968,681	46,210,844	47.68
31	0.00090383	0.00090342	968,264	875	967,827	45,242,163	46.73
32	0.00104139	0.00104085	967,389	1,007	966,896	44,274,336	45.77
33	0.00115037	0.00114971	966,382	1,111	965,827	43,307,450	44.81
34	0.00124822	0.00124744	965,271	1,204	964,669	42,341,623	43.87
35	0.00136869	0.00136775	964,067	1,319	963,408	41,376,954	42.92
36	0.00144387	0.00144283	962,748	1,389	962,054	40,413,546	41.98
37	0.00157529	0.00157405	961,359	1,513	960,603	39,451,492	41.04
38	0.00176383	0.00176228	959,846	1,692	959,000	38,490,889	40.10
39	0.00190581	0.00190400	958,154	1,824	957,242	37,531,889	39.17
40	0.00198851	0.00198653	956,330	1,900	955,380	36,574,647	38.24
41	0.00214418	0.00214188	954,430	2,044	953,408	35,619,267	37.32
42	0.00223689	0.00223439	952,386	2,128	951,322	34,665,859	36.40
43	0.00237863	0.00237580	950,258	2,258	949,129	33,714,537	35.48
44	0.00253154	0.00252834	948,000	2,397	946,802	32,765,408	34.56
45	0.00267490	0.00267133	945,603	2,526	944,340	31,818,606	33.65
46	0.00289202	0.00288784	943,077	2,723	941,716	30,874,266	32.74
47	0.00330112	0.00329568	940,354	3,099	938,805	29,932,550	31.83
48	0.00380089	0.00379368	937,255	3,556	935,477	28,993,745	30.93
49	0.00427298	0.00426387	933,699	3,981	931,709	28,058,268	30.05
50	0.00484454	0.00483283	929,718	4,493	927,472	27,126,559	29.18
51	0.00526763	0.00525379	925,225	4,861	922,795	26,199,087	28.32
52	0.00571232	0.00569605	920,364	5,242	917,743	25,276,292	27.46
53	0.00604437	0.00602616	915,122	5,515	912,365	24,358,549	26.62
54	0.00641834	0.00639781	909,607	5,819	906,698	23,446,184	25.78
55	0.00679475	0.00677174	903,788	6,120	900,728	22,539,488	24.94
56	0.00732408	0.00729736	897,668	6,551	894,393	21,638,756	24.11
57	0.00782504	0.00779454	891,117	6,946	887,644	20,744,365	23.28
58	0.00848141	0.00844559	884,171	7,467	880,438	19,856,721	22.46
59	0.00909479	0.00905362	876,704	7,937	872,736	18,976,283	21.65
60	0.00985244	0.00980414	868,767	8,518	864,508	18,103,547	20.84
61	0.01063233	0.01057611	860,249	9,098	855,700	17,239,039	20.04
62	0.01171518	0.01164696	851,151	9,913	846,195	16,383,339	19.25
63	0.01303890	0.01295444	841,238	10,898	835,789	15,537,144	18.47
64	0.01447543	0.01437141	830,340	11,933	824,374	14,701,355	17.71
65	0.01615738	0.01602790	818,407	13,117	811,849	13,876,981	16.96
66	0.01814943	0.01798621	805,290	14,484	798,048	13,065,132	16.22
67	0.02019888	0.01999692	790,806	15,814	782,899	12,267,084	15.51
68	0.02229585	0.02205004	774,992	17,089	766,448	11,484,185	14.82
69	0.02451435	0.02421751	757,903	18,355	748,726	10,717,737	14.14
70	0.02682887	0.02647374	739,548	19,579	729,759	9,969,011	13.48
71	0.02914716	0.02872848	719,969	20,684	709,627	9,235,252	12.83
72	0.03135976	0.03087563	699,285	21,591	688,450	8,529,625	12.20
73	0.03407733	0.03350643	677,694	22,707	666,341	7,841,135	11.57
74	0.03746266	0.03677384	654,987	24,086	642,944	7,174,794	10.95
75	0.04108113	0.04025428	630,901	25,396	618,203	6,531,850	10.35
76	0.04577839	0.04475401	605,505	27,099	591,956	5,913,647	9.77
77	0.05161503	0.05031649	578,406	29,103	563,855	5,321,691	9.20
78	0.05819546	0.05654998	549,303	31,063	533,772	4,757,836	8.66
79	0.06463681	0.06261325	518,240	32,449	502,016	4,224,064	8.15
80	0.07409546	0.07144846	485,791	34,709	468,437	3,722,048	7.66
81	0.08095392	0.07780463	451,082	35,096	433,534	3,253,611	7.21
82	0.08841309	0.08467012	415,986	35,222	398,375	2,820,077	6.78
83	0.09493545	0.09063329	380,764	34,510	363,509	2,421,702	6.36
84	0.10294547	0.09790598	346,254	33,900	329,304	2,058,193	5.94
85	0.11299768	0.10695485	312,354	33,408	295,650	1,728,889	5.54
86	0.12487110	0.11753287	278,946	32,785	262,554	1,433,239	5.14
87	0.13788158	0.12898898	246,161	31,752	230,285	1,170,685	4.76
88	0.14750845	0.13737636	214,409	29,455	199,682	940,400	4.35
89		0.15432473	184,954	28,543	170,683	740,718	4.00
90		0.17326952	156,411	27,101	142,861	570,035	3.64
91		0.19480562	129,310	25,190	116,715	427,174	3.30
92		0.21932120	104,120	22,836	92,702	310,459	2.98
93		0.24726718	81,284	20,099	71,235	217,757	2.68
94		0.27916836	61,185	17,081	52,645	146,522	2.39
95		0.31563647	44,104	13,921	37,144	93,877	2.13
96		0.35738536	30,183	10,787	24,790	56,733	1.88
97		0.40524912	19,396	7,860	15,466	31,943	1.65
98		0.46020453	11,536	5,309	8,882	16,477	1.43
99		0.52339629	6,227	3,259	4,598	7,595	1.22
100+		1.00000000	2,968	2,968	2,997	2,997	1.01

Table 5

HONG KONG LIFE TABLE, 1981 MID-YEAR

MALES

Age X	M'_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.01874475	1,000,000	18,745	986,879	68,429,395	68.43
1		0.00117449	981,255	1,152	980,564	67,442,516	68.73
2		0.00106166	980,103	1,041	979,583	66,461,952	67.81
3		0.00070681	979,062	692	978,716	65,482,369	66.88
4		0.00063360	978,370	620	978,060	64,503,653	65.93
5	0.00048146	0.00048134	977,750	471	977,515	63,525,593	64.97
6	0.00043207	0.00043198	977,279	422	977,068	62,548,078	64.00
7	0.00041211	0.00041203	976,857	402	976,656	61,571,010	63.03
8	0.00039979	0.00039971	976,455	390	976,260	60,594,354	62.06
9	0.00039312	0.00039304	976,065	384	975,873	59,618,094	61.08
10	0.00039081	0.00039073	975,681	381	975,491	58,642,221	60.10
11	0.00039403	0.00039395	975,300	384	975,108	57,666,730	59.13
12	0.00041877	0.00041868	974,916	408	974,712	56,691,622	58.15
13	0.00043080	0.00043071	974,508	420	974,298	55,716,910	57.17
14	0.00046462	0.00046451	974,088	452	973,862	54,742,612	56.20
15	0.00050529	0.00050516	973,636	492	973,390	53,768,750	55.22
16	0.00050666	0.00050551	973,144	536	972,876	52,795,360	54.25
17	0.00059897	0.00059879	972,608	582	972,317	51,822,484	53.28
18	0.00064704	0.00064683	972,026	629	971,712	50,850,167	52.31
19	0.00069932	0.00069908	971,397	679	971,058	49,878,455	51.35
20	0.00078039	0.00078009	970,718	757	970,340	48,907,397	50.38
21	0.00085036	0.00085000	969,961	824	969,549	47,937,057	49.42
22	0.00094418	0.00094373	969,137	915	968,680	46,967,508	48.46
23	0.00103610	0.00103556	968,222	1,003	967,721	45,998,828	47.51
24	0.00118100	0.00118030	967,219	1,142	966,648	45,031,107	46.56
25	0.00139015	0.00138918	966,077	1,342	965,406	44,064,459	45.61
26	0.00157839	0.00157715	964,735	1,522	963,974	43,095,053	44.67
27	0.00167267	0.00167127	963,213	1,610	962,408	42,135,079	43.74
28	0.00174328	0.00174176	961,603	1,675	960,766	41,172,671	42.82
29	0.00179294	0.00179133	959,928	1,720	959,068	40,211,905	41.89
30	0.00183529	0.00183361	958,208	1,757	957,330	39,252,837	40.96
31	0.00190650	0.00190468	956,451	1,822	955,540	38,295,507	40.04
32	0.00204343	0.00204134	954,629	1,949	953,655	37,339,967	39.11
33	0.00211310	0.00211087	952,680	2,011	951,675	36,386,312	38.19
34	0.00225620	0.00225366	950,669	2,142	949,598	35,434,637	37.27
35	0.00233624	0.00233351	948,527	2,213	947,421	34,485,039	36.36
36	0.00250171	0.00249858	946,314	2,364	945,132	33,537,618	35.44
37	0.00267682	0.00267324	943,950	2,523	942,689	32,592,486	34.53
38	0.00291700	0.00291275	941,427	2,742	940,056	31,649,797	33.62
39	0.00319658	0.00319148	938,685	2,996	937,187	30,709,741	32.72
40	0.00323444	0.00322922	935,689	3,022	934,178	29,772,554	31.82
41	0.00352453	0.00351833	932,667	3,281	931,027	28,838,376	30.92
42	0.00378061	0.00377348	929,386	3,507	927,633	27,907,349	30.03
43	0.00411471	0.00410626	925,879	3,802	923,978	26,979,716	29.14
44	0.00453258	0.00452233	922,077	4,170	919,992	26,055,738	28.26
45	0.00499971	0.00498724	917,907	4,578	915,618	25,135,746	27.38
46	0.00550985	0.00549471	913,329	5,018	910,820	24,220,128	26.52
47	0.00618052	0.00616148	908,311	5,597	905,513	23,309,308	25.66
48	0.00683003	0.00680678	902,714	6,145	899,642	22,403,795	24.82
49	0.00750877	0.00748068	896,569	6,707	893,216	21,504,153	23.98
50	0.00830042	0.00826611	889,862	7,356	886,184	20,610,937	23.16
51	0.00910819	0.00906690	882,506	8,002	878,505	19,724,753	22.35
52	0.01002386	0.00997387	874,504	8,722	870,143	18,846,248	21.55
53	0.01107807	0.01101705	865,782	9,538	861,013	17,976,105	20.76
54	0.01223858	0.01216414	856,244	10,415	851,037	17,115,092	19.99
55	0.01380010	0.01370553	845,829	11,593	840,033	16,264,055	19.23
56	0.01542213	0.01530412	834,236	12,767	827,853	15,424,022	18.49
57	0.01741773	0.01726735	821,469	14,185	814,377	14,596,169	17.77
58	0.01963756	0.01944662	807,284	15,699	799,435	13,781,792	17.07
59	0.02195721	0.02171877	791,585	17,192	782,989	12,982,357	16.40
60	0.02440403	0.02410984	774,393	18,670	765,058	12,199,368	15.75
61	0.02696907	0.02634442	755,723	19,909	745,769	11,434,310	15.13
62	0.02864927	0.02824468	735,814	20,783	725,423	10,688,541	14.53
63	0.03069826	0.03023419	715,031	21,618	704,222	9,963,118	13.93
64	0.03348945	0.03293791	693,413	22,840	681,993	9,258,896	13.35
65	0.03722810	0.03654780	670,573	24,508	665,319	8,576,903	12.79
66	0.04156103	0.04071495	646,065	26,305	632,913	7,918,584	12.26
67	0.04598207	0.04494855	619,760	27,857	605,832	7,285,671	11.76
68	0.04924745	0.04806394	591,903	28,449	577,679	6,679,839	11.29
69	0.05139103	0.05010359	563,454	28,231	549,339	6,102,160	10.83
70	0.05331251	0.05192830	535,223	27,793	521,327	5,552,821	10.37
71	0.05525242	0.05376704	507,430	27,283	493,759	5,031,494	9.92
72	0.05815465	0.05651145	480,147	27,134	466,580	4,537,705	9.45
73	0.06382936	0.06185527	453,013	28,021	439,003	4,071,125	8.99
74	0.07167262	0.06919300	424,992	29,406	410,289	3,632,122	8.55
75	0.08049118	0.07737709	395,586	30,609	380,282	3,221,833	8.14
76	0.09224843	0.08818114	364,977	32,184	348,895	2,841,551	7.79
77	0.10167878	0.09675958	332,793	32,201	316,693	2,492,666	7.49
78	0.10712451	0.10167839	300,592	30,564	285,310	2,175,973	7.24
79	0.10785797	0.10233894	270,028	27,634	256,211	1,890,663	7.00
80	0.10823575	0.10267898	242,394	24,889	229,950	1,634,452	6.74
81	0.10750568	0.10202172	217,505	22,190	206,410	1,404,502	6.46
82	0.10928046	0.10361871	195,315	20,238	185,196	1,198,092	6.13
83	0.11701528	0.11054741	175,077	19,354	165,400	1,012,896	5.79
84	0.12844591	0.12069455	155,723	18,795	146,326	847,496	5.44
85	0.14360966	0.13398863	136,928	18,347	127,755	701,170	5.12
86	0.15531323	0.14412126	118,581	17,090	110,036	573,415	4.84
87	0.16780528	0.15481582	101,491	15,712	93,635	463,379	4.57
88	0.17247069	0.15877838	85,779	13,620	78,969	369,744	4.31
89		0.16922307	72,159	12,211	66,054	290,775	4.03
90		0.18391204	59,948	11,025	54,436	224,721	3.75
91		0.19993946	48,923	9,782	44,032	170,285	3.48
92		0.21743278	39,141	8,511	34,886	126,253	3.23
93		0.23653223	30,630	7,245	27,008	91,367	2.98
94		0.25738835	23,385	6,019	20,376	64,359	2.75
95		0.28018120	17,366	4,866	14,933	43,983	2.53
96		0.30508722	12,500	3,814	10,593	29,050	2.32
97		0.33231471	8,686	2,886	7,243	18,457	2.12
98		0.36209005	5,800	2,100	4,750	11,214	1.93
99		0.39466221	3,700	1,460	2,970	6,464	1.75
100+		1.00000000	2,240	2,240	3,494	3,494	1.56

Table 6

HONG KONG LIFE TABLE, 1981 MID-YEAR

FEMALE

Age X	M'_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.01382834	1,000,000	13,829	990,320	75,915,213	75.92
1		0.00102138	986,171	1,007	985,566	74,924,893	75.98
2		0.00075741	985,164	746	984,791	73,939,327	75.05
3		0.00064142	984,418	631	984,103	72,954,536	74.11
4		0.00042099	983,787	414	983,580	71,970,433	73.16
5	0.00037456	0.00037449	983,373	368	983,189	70,986,853	72.19
6	0.00032818	0.00032813	983,005	323	982,844	70,003,664	71.21
7	0.00029177	0.00029173	982,682	287	982,539	69,020,820	70.24
8	0.00026434	0.00026431	982,395	260	982,265	68,038,281	69.26
9	0.00026007	0.00026004	982,135	255	982,008	67,056,016	68.28
10	0.00025889	0.00025886	981,880	254	981,753	66,074,008	67.29
11	0.00026161	0.00026158	981,626	257	981,498	65,092,255	66.31
12	0.00028610	0.00028606	981,369	281	981,229	64,110,757	65.33
13	0.00031431	0.00031426	981,088	308	980,934	63,129,528	64.35
14	0.00034652	0.00034646	980,780	340	980,610	62,148,594	63.37
15	0.00038382	0.00038375	980,440	376	980,252	61,167,984	62.39
16	0.00040339	0.00040331	980,064	395	979,867	60,187,732	61.41
17	0.00044565	0.00044555	979,669	436	979,451	59,207,865	60.44
18	0.00048500	0.00048488	979,233	475	978,996	58,228,414	59.46
19	0.00052828	0.00052814	978,758	517	978,500	57,249,418	58.49
20	0.00057508	0.00057491	978,241	562	977,960	56,270,918	57.52
21	0.00057781	0.00057764	977,679	565	977,397	55,292,958	56.56
22	0.00059829	0.00059811	977,114	584	976,822	54,315,516	55.59
23	0.00060329	0.00060311	976,530	589	976,236	53,338,739	54.62
24	0.00061006	0.00060987	975,941	595	975,644	52,362,503	53.65
25	0.00069839	0.00069815	975,346	681	975,006	51,386,859	52.69
26	0.00074856	0.00074828	974,665	729	974,301	50,411,853	51.72
27	0.00075873	0.00075844	973,936	739	973,567	49,437,552	50.76
28	0.00077593	0.00077563	973,197	755	972,820	48,463,985	49.80
29	0.00083814	0.00083779	972,442	815	972,035	47,491,165	48.84
30	0.00083862	0.00083827	971,627	814	971,220	46,519,130	47.88
31	0.00088149	0.00088110	970,813	855	970,386	45,547,910	46.92
32	0.00101565	0.00101513	969,958	985	969,466	44,577,524	45.96
33	0.00112193	0.00112130	968,973	1,087	968,430	43,608,058	45.00
34	0.00121736	0.00121662	967,886	1,178	967,297	42,639,628	44.05
35	0.00133485	0.00133396	966,708	1,290	966,063	41,672,331	43.11
36	0.00140818	0.00140719	965,418	1,359	964,739	40,706,268	42.16
37	0.00153635	0.00153517	964,059	1,480	963,319	39,741,529	41.22
38	0.00172023	0.00171875	962,579	1,654	961,752	38,778,210	40.29
39	0.00185870	0.00185697	960,925	1,784	960,033	37,816,458	39.35
40	0.00192108	0.00191924	959,141	1,841	958,221	36,856,425	38.43
41	0.00207147	0.00206933	957,300	1,981	956,310	35,898,204	37.50
42	0.00216104	0.00215871	955,319	2,062	954,288	34,941,894	36.58
43	0.00229797	0.00229533	953,257	2,188	952,163	33,987,606	35.65
44	0.00244569	0.00244270	951,069	2,323	949,908	33,035,443	34.74
45	0.00258420	0.00258087	948,746	2,449	947,522	32,085,535	33.82
46	0.00279396	0.00279006	946,297	2,640	944,977	31,138,013	32.91
47	0.00318918	0.00318410	943,657	3,005	942,155	30,193,036	32.00
48	0.00367201	0.00366528	940,652	3,448	938,928	29,250,881	31.10
49	0.00412809	0.00411959	937,204	3,861	935,274	28,311,953	30.21
50	0.00468027	0.00466934	933,343	4,358	931,164	27,376,679	29.33
51	0.00508901	0.00507609	928,985	4,716	926,627	26,445,515	28.47
52	0.00551862	0.00550343	924,269	5,087	921,726	25,518,888	27.61
53	0.00583941	0.00582241	919,182	5,352	916,506	24,597,162	26.76
54	0.00620070	0.00618154	913,830	5,649	911,006	23,680,656	25.91
55	0.00669147	0.00666916	908,181	6,057	905,153	22,769,650	25.07
56	0.00721275	0.00718683	902,124	6,483	898,883	21,864,497	24.24
57	0.00770610	0.00767652	895,641	6,875	892,204	20,965,614	23.41
58	0.00835249	0.00831775	888,766	7,393	885,070	20,073,410	22.59
59	0.00895655	0.00891662	881,373	7,859	877,444	19,188,340	21.77
60	0.00970267	0.00965583	873,514	8,435	869,297	18,310,896	20.96
61	0.01047071	0.01041618	865,079	9,011	860,574	17,441,599	20.16
62	0.01153710	0.01147093	856,068	9,820	851,158	16,581,025	19.37
63	0.01284070	0.01275878	846,248	10,797	840,850	15,729,867	18.59
64	0.01425539	0.01415450	835,451	11,825	829,539	14,889,017	17.82
65	0.01591178	0.01578619	823,626	13,002	817,125	14,059,478	17.07
66	0.01787354	0.01771522	810,624	14,360	803,444	13,242,353	16.34
67	0.01989184	0.01969595	796,264	15,683	788,423	12,438,909	15.62
68	0.02195694	0.02171850	780,581	16,953	772,105	11,650,486	14.93
69	0.02414172	0.02385378	763,628	18,215	754,521	10,878,381	14.25
70	0.02642105	0.02607656	745,413	19,438	735,694	10,123,860	13.58
71	0.02870410	0.02829797	725,975	20,544	715,703	9,388,166	12.93
72	0.03088307	0.03041344	705,431	21,455	694,704	8,672,463	12.29
73	0.03355933	0.03300551	683,976	22,575	672,689	7,977,759	11.66
74	0.03689320	0.03622497	661,401	23,959	649,422	7,305,070	11.04
75	0.04045666	0.03965452	637,442	25,277	624,804	6,655,648	10.44
76	0.04508253	0.04408871	612,165	26,990	598,670	6,030,844	9.85
77	0.05083045	0.04957060	585,175	29,007	570,672	5,432,174	9.28
78	0.05731084	0.05571432	556,168	30,987	540,675	4,861,502	8.74
79	0.06365428	0.06169084	525,181	32,399	508,982	4,320,827	8.23
80	0.07296916	0.07040062	492,782	34,692	475,436	3,811,845	7.74
81	0.07972337	0.07666728	458,090	35,121	440,530	3,336,409	7.28
82	0.08706914	0.08343676	422,969	35,291	405,324	2,895,879	6.85
83	0.09349236	0.08931713	387,678	34,626	370,365	2,490,555	6.42
84	0.10138062	0.09648954	353,052	34,066	336,019	2,120,190	6.01
85	0.11128003	0.10541475	318,986	33,626	302,173	1,784,171	5.59
86	0.12297296	0.11584977	285,360	33,059	268,831	1,481,998	5.19
87	0.13578568	0.12715291	252,301	32,081	236,261	1,213,167	4.81
88	0.14526621	0.13542954	220,220	29,824	205,308	976,906	4.44
89		0.15197888	190,396	28,936	175,928	771,598	4.05
90		0.17063570	161,460	27,551	147,685	595,670	3.69
91		0.19184443	133,909	25,690	121,064	447,985	3.35
92		0.21598736	108,219	23,374	96,532	326,921	3.02
93		0.24350854	84,845	20,660	74,515	230,389	2.72
94		0.27492480	64,185	17,646	55,362	155,874	2.43
95		0.31083856	46,539	14,466	39,306	100,512	2.16
96		0.35195285	32,073	11,288	26,429	61,206	1.91
97		0.39908903	20,785	8,295	16,638	34,777	1.67
98		0.45320908	12,490	5,661	9,660	18,139	1.45
99		0.51544028	6,829	3,520	5,069	8,479	1.24
100*		1.00000000	3,309	3,309	3,410	3,410	1.03

Table 7

HONG KONG LIFE TABLE, 1986 MID-YEAR

MALES

Age X	M'_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.01744001	1,000,000	17,440	987,792	68,763,718	68.76
1		0.00101987	982,560	1,002	981,959	67,775,926	68.98
2		0.00092190	981,558	905	981,106	66,793,967	68.05
3		0.00061376	980,653	602	980,352	65,812,861	67.11
4		0.00055019	980,051	539	979,782	64,832,509	66.15
5	0.00045433	0.00045423	979,512	445	979,290	63,852,727	65.19
6	0.00040772	0.00040764	979,067	399	978,868	62,873,437	64.22
7	0.00038888	0.00038880	978,668	381	978,478	61,894,569	63.24
8	0.00037725	0.00037718	978,287	369	978,103	60,916,091	62.27
9	0.00037097	0.00037090	977,918	363	977,737	59,937,988	61.29
10	0.00036878	0.00036871	977,555	360	977,375	58,960,251	60.31
11	0.00037183	0.00037176	977,195	363	977,014	57,982,876	59.34
12	0.00039517	0.00039509	976,832	386	976,639	57,005,862	58.36
13	0.00040652	0.00040644	976,466	397	976,248	56,029,223	57.38
14	0.00043844	0.00043834	976,049	428	975,835	55,052,975	56.40
15	0.00047681	0.00047670	975,621	465	975,389	54,077,140	55.43
16	0.00051952	0.00051949	975,156	507	974,903	53,101,751	54.45
17	0.00056522	0.00056506	974,649	551	974,374	52,126,848	53.48
18	0.00061058	0.00061039	974,098	595	973,801	51,152,474	52.51
19	0.00065990	0.00065968	973,503	642	973,182	50,178,673	51.54
20	0.00073640	0.00073613	972,861	716	972,503	49,205,491	50.58
21	0.00080243	0.00080211	972,145	780	971,755	48,232,988	49.62
22	0.00089097	0.00089057	971,365	865	970,933	47,261,233	48.65
23	0.00097771	0.00097723	970,500	948	970,026	46,290,300	47.70
24	0.00111444	0.00111382	969,552	1,080	969,012	45,320,274	46.74
25	0.00136279	0.00136186	968,472	1,319	967,813	44,351,262	45.80
26	0.00154732	0.00154612	967,153	1,495	966,406	43,383,449	44.86
27	0.00163974	0.00163840	965,658	1,582	964,867	42,417,043	43.93
28	0.00170896	0.00170750	964,076	1,646	963,253	41,452,176	43.00
29	0.00175765	0.00175611	962,430	1,690	961,585	40,488,923	42.07
30	0.00179916	0.00179754	960,740	1,727	959,877	39,527,338	41.14
31	0.00185897	0.00185723	959,013	1,751	958,118	38,567,461	40.22
32	0.00200321	0.00200121	957,222	1,916	956,264	37,609,343	39.29
33	0.00207150	0.00206936	955,306	1,977	954,318	36,653,079	38.37
34	0.00221179	0.00220935	953,329	2,106	952,276	35,698,761	37.45
35	0.00229025	0.00228763	951,223	2,176	950,135	34,746,485	36.53
36	0.00245246	0.00244946	949,047	2,325	947,885	33,796,350	35.61
37	0.00262413	0.00262069	946,722	2,481	945,482	32,848,465	34.70
38	0.00285958	0.00285550	944,241	2,696	942,893	31,902,983	33.79
39	0.00313366	0.00312876	941,545	2,946	940,072	30,960,090	32.88
40	0.00341470	0.00341208	938,599	3,249	937,125	30,020,018	31.98
41	0.00342927	0.00342340	935,650	3,203	934,049	29,082,893	31.08
42	0.00367843	0.00367168	932,447	3,424	930,735	28,148,844	30.19
43	0.00400349	0.00399549	929,023	3,712	927,167	27,218,109	29.30
44	0.00441008	0.00440038	925,311	4,072	923,275	26,290,942	28.41
45	0.00486458	0.00485278	921,239	4,471	919,004	25,367,667	27.54
46	0.00536093	0.00534660	916,768	4,902	914,317	24,448,653	26.67
47	0.00601347	0.00599544	911,866	5,467	909,133	23,534,346	25.81
48	0.00684543	0.00682342	906,399	6,003	903,398	22,625,213	24.96
49	0.00730582	0.00727923	900,396	6,554	897,119	21,721,815	24.12
50	0.00807608	0.00804360	893,842	7,190	890,247	20,824,696	23.30
51	0.00886201	0.00882292	886,652	7,823	882,741	19,934,449	22.48
52	0.00975294	0.00970561	878,829	8,530	874,564	19,051,708	21.68
53	0.01077865	0.01072087	870,299	9,330	865,634	18,177,144	20.89
54	0.01190779	0.01183731	860,969	10,192	855,873	17,311,510	20.11
55	0.01363321	0.01354091	850,777	11,520	845,017	16,455,637	19.34
56	0.01523563	0.01512045	839,257	12,690	832,912	15,610,620	18.60
57	0.01720709	0.01706031	826,567	14,101	819,517	14,777,708	17.88
58	0.01940008	0.01921371	812,466	15,610	804,661	13,958,191	17.18
59	0.02169167	0.02145893	796,856	17,100	788,306	13,153,530	16.51
60	0.02410890	0.02382174	779,756	18,575	770,469	12,365,224	15.86
61	0.02637322	0.02602997	761,181	19,814	751,274	11,594,755	15.23
62	0.02830280	0.02790796	741,367	20,690	731,022	10,843,481	14.63
63	0.03032701	0.02987402	720,677	21,530	709,912	10,112,459	14.03
64	0.03230844	0.03254606	699,147	22,754	687,770	9,402,547	13.45
65	0.03677788	0.03611379	676,393	24,427	664,180	8,714,777	12.88
66	0.04105842	0.04023248	651,966	26,230	638,851	8,050,597	12.35
67	0.04542599	0.04441714	625,735	27,793	611,840	7,411,746	11.84
68	0.04865188	0.04749648	597,543	28,400	583,743	6,799,906	11.37
69	0.05076953	0.04951266	569,543	28,200	555,443	6,216,163	10.91
70	0.05266778	0.05131642	541,343	27,780	527,453	5,660,720	10.46
71	0.05458423	0.05313409	513,563	27,288	499,919	5,133,267	10.00
72	0.05745136	0.05584711	486,275	27,157	472,697	4,633,348	9.53
73	0.06305745	0.06113010	459,118	28,066	445,085	4,160,651	9.06
74	0.07080586	0.06838484	431,052	29,477	416,314	3,715,966	8.62
75	0.07951776	0.07647712	401,575	30,711	386,220	3,299,252	8.22
76	0.09113283	0.08716121	370,864	32,325	354,702	2,913,032	7.85
77	0.10044913	0.09564538	338,539	32,380	322,349	2,558,330	7.56
78	0.10582901	0.10051054	306,159	30,772	290,773	2,235,981	7.30
79	0.10655360	0.10116391	275,387	27,859	261,458	1,945,208	7.06
80	0.10692681	0.10150026	247,528	25,124	234,966	1,683,750	6.80
81	0.10620557	0.10085015	222,404	22,429	211,190	1,448,784	6.51
82	0.10795889	0.10242979	199,975	20,483	189,734	1,237,594	6.19
83	0.11560017	0.10928357	179,492	19,616	169,684	1,047,850	5.84
84	0.12689266	0.11932202	159,876	19,077	150,338	878,176	5.49
85	0.14187293	0.13247558	140,799	18,652	131,473	727,838	5.17
86	0.15343497	0.14250253	122,147	17,406	113,444	596,365	4.88
87	0.16577594	0.15308688	104,741	16,034	96,724	482,921	4.61
88	0.17038493	0.15700895	88,707	13,928	81,743	386,197	4.35
89		0.16717659	74,779	12,501	68,529	304,454	4.07
90		0.18168792	62,278	11,315	56,621	235,925	3.79
91		0.19752151	50,963	10,066	45,930	179,304	3.52
92		0.21480328	40,897	8,785	36,505	133,374	3.26
93		0.23367175	32,112	7,504	28,350	96,859	3.02
94		0.25427565	24,608	6,257	21,480	68,509	2.78
95		0.27679285	18,351	5,079	15,812	47,029	2.56
96		0.30139768	13,272	4,000	11,272	31,217	2.35
97		0.32829589	9,272	3,044	7,750	19,945	2.15
98		0.35771115	6,228	2,228	5,114	12,195	1.96
99		0.38988940	4,000	1,560	3,220	7,081	1.77
100*		1.00000000	2,440	2,440	3,861	3,861	1.58

Table 8

HONG KONG LIFE TABLE, 1986 MID-YEAR

FEMALES

Age X	M'_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.01286674	1,000,000	12,867	990,993	76,196,027	76.20
1		0.00088692	987,133	876	986,607	75,205,034	76.19
2		0.00065770	986,257	649	985,933	74,218,427	75.25
3		0.00055698	985,608	549	985,334	73,232,494	74.30
4		0.00036557	985,059	360	984,879	72,247,160	73.34
5	0.00035345	0.00035339	984,699	348	984,525	71,262,281	72.37
6	0.00030968	0.00030963	984,351	305	984,199	70,277,756	71.40
7	0.00027533	0.00027529	984,046	271	983,911	69,293,557	70.42
8	0.00024944	0.00024941	983,775	245	983,653	68,309,646	69.44
9	0.00024541	0.00024538	983,530	241	983,410	67,325,993	68.45
10	0.00024430	0.00024427	983,289	240	983,169	66,342,583	67.47
11	0.00024687	0.00024684	983,049	243	982,928	65,359,414	66.49
12	0.00026997	0.00026993	982,806	265	982,674	64,376,486	65.50
13	0.00029660	0.00029656	982,541	291	982,396	63,393,812	64.52
14	0.00032699	0.00032694	982,250	321	982,090	62,411,416	63.54
15	0.00036218	0.00036211	981,929	356	981,751	61,429,326	62.56
16	0.00038066	0.00038059	981,573	374	981,386	60,447,575	61.58
17	0.00042053	0.00042044	981,199	413	980,993	59,466,189	60.61
18	0.00045766	0.00045756	980,786	449	980,562	58,485,196	59.63
19	0.00049851	0.00049839	980,337	489	980,093	57,504,634	58.66
20	0.00054267	0.00054252	979,848	532	979,582	56,524,541	57.69
21	0.00054525	0.00054510	979,316	534	979,049	55,544,959	56.72
22	0.00056457	0.00056441	978,782	552	978,506	54,565,910	55.75
23	0.00056929	0.00056913	978,230	557	977,952	53,587,404	54.78
24	0.00057568	0.00057551	977,673	563	977,392	52,609,452	53.81
25	0.00068464	0.00068441	977,110	669	976,776	51,632,060	52.84
26	0.00073383	0.00073356	976,441	716	976,083	50,655,284	51.88
27	0.00074379	0.00074351	975,725	725	975,363	49,679,201	50.92
28	0.00076065	0.00076036	975,000	741	974,630	48,703,838	49.95
29	0.00082164	0.00082130	974,259	800	973,859	47,729,208	48.99
30	0.00082212	0.00082178	973,459	800	973,059	46,755,349	48.03
31	0.00086414	0.00086377	972,659	840	972,239	45,782,290	47.07
32	0.00099565	0.00099515	971,819	967	971,336	44,810,051	46.11
33	0.00109985	0.00109925	970,852	1,067	970,319	43,838,715	45.15
34	0.00119340	0.00119269	969,785	1,157	969,207	42,868,396	44.20
35	0.00130858	0.00130772	968,628	1,267	967,995	41,899,189	43.26
36	0.00138046	0.00137951	967,361	1,334	966,694	40,931,194	42.31
37	0.00150611	0.00150498	966,027	1,454	965,300	39,964,500	41.37
38	0.00168637	0.00168495	964,573	1,625	963,761	38,999,200	40.43
39	0.00182211	0.00182045	962,948	1,753	962,072	38,035,439	39.50
40	0.00186915	0.00186740	961,195	1,795	960,298	37,073,367	38.57
41	0.00201549	0.00201346	959,400	1,932	958,434	36,113,069	37.64
42	0.00210263	0.00210042	957,468	2,011	956,463	35,154,635	36.72
43	0.00223586	0.00223336	955,457	2,134	954,390	34,198,172	35.79
44	0.00237959	0.00237676	953,323	2,266	952,190	33,243,782	34.87
45	0.00251435	0.00251119	951,057	2,388	949,863	32,291,592	33.95
46	0.00271844	0.00271475	948,669	2,575	947,382	31,341,729	33.04
47	0.00310298	0.00309817	946,094	2,931	944,629	30,394,347	32.13
48	0.00357276	0.00356639	943,163	3,364	941,481	29,449,718	31.22
49	0.00401652	0.00400847	939,799	3,767	937,916	28,508,237	30.33
50	0.00455377	0.00454343	936,032	4,253	933,906	27,570,321	29.45
51	0.00495147	0.00493924	931,779	4,602	929,478	26,636,415	28.59
52	0.00536946	0.00535508	927,177	4,965	924,695	25,706,937	27.73
53	0.00568158	0.00566549	922,212	5,225	919,600	24,782,242	26.87
54	0.00603310	0.00601496	916,987	5,516	914,229	23,862,642	26.02
55	0.00661055	0.00658877	911,471	6,005	908,469	22,948,413	25.18
56	0.00712552	0.00710022	905,466	6,429	902,252	22,039,944	24.34
57	0.00761291	0.00758404	899,037	6,818	895,628	21,137,692	23.51
58	0.00825148	0.00821758	892,219	7,332	888,553	20,242,064	22.69
59	0.00884823	0.00880926	884,887	7,795	880,990	19,353,511	21.87
60	0.00958533	0.00953961	877,092	8,367	872,909	18,472,521	21.06
61	0.01034408	0.01029086	868,725	8,940	864,255	17,599,612	20.26
62	0.01139758	0.01133300	859,785	9,744	854,913	16,735,357	19.46
63	0.01268542	0.01260547	850,041	10,715	844,684	15,880,444	18.68
64	0.01408299	0.01398452	839,326	11,738	833,457	15,035,760	17.91
65	0.01571935	0.01559676	827,588	12,908	821,134	14,202,303	17.16
66	0.01765739	0.01750286	814,680	14,259	807,551	13,381,169	16.43
67	0.01965128	0.01946007	800,421	15,776	792,633	12,573,618	15.71
68	0.02169140	0.02145867	784,845	16,842	776,424	11,780,985	15.01
69	0.02384976	0.02356871	768,003	18,101	758,953	11,004,561	14.33
70	0.02610153	0.02576527	749,902	19,321	740,242	10,245,608	13.66
71	0.0285697	0.02796053	730,581	20,427	720,368	9,505,366	13.01
72	0.03050959	0.03005117	710,154	21,341	699,484	8,784,998	12.37
73	0.03315349	0.03261287	688,813	22,464	677,581	8,085,514	11.74
74	0.03644704	0.03579473	666,349	23,852	654,423	7,407,933	11.12
75	0.03996741	0.03918436	642,497	25,176	629,909	6,753,510	10.51
76	0.04453733	0.04356715	617,321	26,895	603,874	6,123,601	9.92
77	0.05021573	0.04898580	590,426	28,922	575,965	5,519,727	9.35
78	0.05661776	0.05505910	561,504	30,916	546,046	4,943,762	8.80
79	0.06288448	0.06096752	530,588	32,349	514,414	4,397,716	8.29
80	0.07208671	0.06957885	498,239	34,667	480,906	3,883,302	7.79
81	0.07875924	0.07577524	463,572	35,127	446,009	3,402,396	7.34
82	0.08601618	0.08246933	428,445	35,334	410,778	2,956,387	6.90
83	0.09236172	0.08828466	393,111	34,706	375,758	2,545,609	6.48
84	0.10015459	0.09537830	358,405	34,184	341,313	2,169,851	6.05
85	0.10993427	0.10420635	324,221	33,786	307,328	1,828,538	5.64
86	0.12148580	0.11452898	290,435	33,263	273,804	1,521,210	5.24
87	0.13414357	0.12571185	257,172	32,330	241,007	1,247,406	4.85
88	0.14350945	0.13390139	224,842	30,107	209,789	1,006,399	4.48
89		0.15014094	194,735	29,238	180,116	796,610	4.09
90		0.16857213	165,497	27,898	151,548	616,494	3.73
91		0.18952438	137,599	26,078	124,560	464,946	3.38
92		0.21337534	111,521	23,796	99,623	340,386	3.05
93		0.24056369	87,725	21,103	77,174	240,763	2.74
94		0.27160002	66,622	18,095	57,575	163,589	2.46
95		0.30707947	48,527	14,902	41,076	106,014	2.18
96		0.34769654	33,625	11,691	27,780	64,938	1.93
97		0.39426269	21,934	8,648	17,610	37,158	1.69
98		0.44772825	13,286	5,949	10,312	19,548	1.47
99		0.50920685	7,337	3,736	5,469	9,236	1.26
100+		1.00000000	3,601	3,601	3,767	3,767	1.05

Table 9

HONG KONG LIFE TABLE, 1991 MID-YEAR

MALES

Age X	M'_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.01642679	1,000,000	16,427	988,501	69,031,873	69.03
1		0.00090717	983,573	892	983,038	68,043,372	69.18
2		0.00082002	982,681	806	982,278	67,060,334	68.24
3		0.00054594	981,875	536	981,607	66,078,056	67.30
4		0.00048939	981,339	480	981,099	65,096,449	66.33
5	0.00043298	0.00043289	980,859	425	980,647	64,115,350	65.37
6	0.00038857	0.00038849	980,434	381	980,244	63,134,703	64.39
7	0.00037061	0.00037054	980,053	363	979,872	62,154,459	63.42
8	0.00035953	0.00035947	979,690	352	979,514	61,174,587	62.44
9	0.00035354	0.00035348	979,338	346	979,165	60,195,073	61.47
10	0.00035145	0.00035139	978,992	344	978,820	59,215,908	60.49
11	0.00035436	0.00035430	978,648	347	978,475	58,237,088	59.51
12	0.00037660	0.00037653	978,301	368	978,117	57,258,613	58.53
13	0.00038742	0.00038734	977,933	379	977,744	56,280,496	57.55
14	0.00041784	0.00041775	977,554	408	977,350	55,302,752	56.57
15	0.00045441	0.00045431	977,146	444	976,924	54,325,402	55.60
16	0.00049521	0.00049509	976,702	484	976,460	53,348,478	54.62
17	0.00053866	0.00053851	976,218	526	975,955	52,372,018	53.65
18	0.00058189	0.00058172	975,692	568	975,408	51,396,063	52.68
19	0.00062890	0.00062870	975,124	613	974,818	50,420,655	51.71
20	0.00070180	0.00070155	974,511	684	974,169	49,445,837	50.74
21	0.00076473	0.00076444	973,827	744	973,455	48,471,668	49.77
22	0.00084910	0.00084874	973,053	826	972,570	47,498,213	48.81
23	0.00093177	0.00093134	972,257	908	971,804	46,525,543	47.85
24	0.00106208	0.00106152	971,351	1,031	970,836	45,553,739	46.90
25	0.00134049	0.00133959	970,320	1,300	969,670	44,582,903	45.95
26	0.00152201	0.00152085	969,020	1,474	968,283	43,613,233	45.01
27	0.00161292	0.00161162	967,546	1,559	966,767	42,644,950	44.08
28	0.00168100	0.00167959	965,987	1,622	965,176	41,678,183	43.15
29	0.00172890	0.00172741	964,365	1,666	963,532	40,713,007	42.22
30	0.00176973	0.00176817	962,699	1,702	961,848	39,749,475	41.29
31	0.00183839	0.00183670	960,997	1,765	960,115	38,787,627	40.36
32	0.00197044	0.00196850	959,232	1,888	958,288	37,827,512	39.44
33	0.00203761	0.00203554	957,344	1,949	956,370	36,869,224	38.51
34	0.00217561	0.00217325	955,395	2,076	954,357	35,912,854	37.59
35	0.00225278	0.00225025	953,319	2,145	952,247	34,958,497	36.67
36	0.00241234	0.00240943	951,174	2,292	950,028	34,006,250	35.75
37	0.00258121	0.00257788	948,882	2,446	947,659	33,056,222	34.84
38	0.00281280	0.00280885	946,436	2,658	945,107	32,108,563	33.93
39	0.00308240	0.00307766	943,778	2,905	942,326	31,163,456	33.02
40	0.00307628	0.00307156	940,873	2,890	939,428	30,221,130	32.12
41	0.00335219	0.00334658	937,983	3,139	936,414	29,281,702	31.22
42	0.00359575	0.00358930	934,844	3,355	933,167	28,345,288	30.32
43	0.00391350	0.00390586	931,489	3,638	929,670	27,412,121	29.43
44	0.00431095	0.00430168	927,851	3,991	925,856	26,482,451	28.54
45	0.00475524	0.00474396	923,860	4,383	921,669	25,556,595	27.66
46	0.00524043	0.00522673	919,477	4,806	917,074	24,634,926	26.79
47	0.00587830	0.00586107	914,671	5,361	911,991	23,717,852	25.93
48	0.00649605	0.00647502	909,310	5,888	906,366	22,805,861	25.08
49	0.00714160	0.00711619	903,422	6,429	900,208	21,899,495	24.24
50	0.00789454	0.00786350	896,993	7,054	893,456	20,999,287	23.41
51	0.00866281	0.00862545	889,939	7,676	886,101	20,105,821	22.59
52	0.00953371	0.00948848	882,263	8,371	878,078	19,219,720	21.78
53	0.01053637	0.01048115	873,892	9,159	869,313	18,341,642	20.99
54	0.01164013	0.01157278	864,733	10,007	859,730	17,472,329	20.21
55	0.01349632	0.01340586	854,726	11,458	848,997	16,612,599	19.44
56	0.01508265	0.01496976	843,268	12,624	836,956	15,763,602	18.69
57	0.01703432	0.01689046	830,644	14,030	823,629	14,926,646	17.97
58	0.01920529	0.01902262	816,614	15,534	808,847	14,103,017	17.27
59	0.02147388	0.02124577	801,080	17,020	792,570	13,294,170	16.60
60	0.02386683	0.02358538	784,060	18,492	774,814	12,501,600	15.94
61	0.02610841	0.02577198	765,568	19,730	755,703	11,726,786	15.32
62	0.02801863	0.02763153	745,838	20,609	735,534	10,971,083	14.71
63	0.03002251	0.02957850	725,229	21,451	714,504	10,235,549	14.11
64	0.03275225	0.03224254	703,778	22,679	692,439	9,521,045	13.53
65	0.03640861	0.03575767	681,099	24,355	668,922	8,828,606	12.96
66	0.04064617	0.03983657	656,744	26,162	643,663	8,159,684	12.42
67	0.04496988	0.04398097	630,582	27,734	616,715	7,516,021	11.92
68	0.04816338	0.04703080	602,848	28,352	588,672	6,899,306	11.44
69	0.05025977	0.04902771	574,496	28,166	560,413	6,310,634	10.98
70	0.05213896	0.05081426	546,330	27,761	532,450	5,750,221	10.53
71	0.05403616	0.05261461	518,569	27,284	504,927	5,217,771	10.06
72	0.05687451	0.05530188	491,285	27,169	477,701	4,712,844	9.59
73	0.06242431	0.06053489	464,116	28,095	450,069	4,235,143	9.13
74	0.07009492	0.06772146	436,021	29,528	421,257	3,785,074	8.68
75	0.07871935	0.07573831	406,493	30,787	391,100	3,363,817	8.28
76	0.09021779	0.08632382	375,706	32,432	359,490	2,972,717	7.91
77	0.09944056	0.09473053	343,274	32,519	327,015	2,613,227	7.61
78	0.10476642	0.09955159	310,755	30,936	295,287	2,286,212	7.36
79	0.10548373	0.10019905	279,819	28,038	265,800	1,990,925	7.12
80	0.10585319	0.10053235	251,781	25,312	239,125	1,725,125	6.85
81	0.10513920	0.09988812	226,469	22,622	215,158	1,486,000	6.56
82	0.10687491	0.10145349	203,847	20,681	193,507	1,270,842	6.23
83	0.11443947	0.10824568	183,166	19,827	173,253	1,077,335	5.88
84	0.12561848	0.11819476	163,339	19,306	153,686	904,082	5.54
85	0.14044843	0.13123272	144,033	18,902	134,582	750,396	5.21
86	0.15189438	0.14117271	125,131	17,665	116,299	615,814	4.92
87	0.16411144	0.15166635	107,466	16,299	99,317	499,515	4.65
88	0.16867415	0.15555509	91,167	14,181	84,077	400,198	4.39
89		0.16549802	76,986	12,741	70,616	316,121	4.11
90		0.17986365	64,245	11,555	58,468	245,505	3.82
91		0.19553826	52,690	10,303	47,539	187,037	3.55
92		0.21264651	42,387	9,013	37,881	139,498	3.29
93		0.23132553	33,374	7,720	29,514	101,617	3.04
94		0.25172255	25,654	6,458	22,425	72,103	2.81
95		0.27401367	19,196	5,260	16,566	49,678	2.59
96		0.29837144	13,936	4,158	11,857	33,112	2.38
97		0.32499958	9,778	3,178	8,189	21,255	2.17
98		0.35411949	6,600	2,337	5,432	13,066	1.98
99		0.38597465	4,263	1,645	3,441	7,634	1.79
100+		1.00000000	2,618	2,618	4,193	4,193	1.60

Table 10

HONG KONG LIFE TABLE, 1991 MID-YEAR

FEMALES

Age X	M'_x	q_x	l_x	d_x	L_x	T_x	e_x
0		0.01211922	1,000,000	12,119	981,517	76,421,303	76.42
1		0.00078891	987,881	779	987,413	75,429,786	76.36
2		0.00058502	987,102	577	986,814	74,442,373	75.42
3		0.00049543	986,525	489	986,281	73,455,559	74.46
4		0.00032517	986,036	321	985,876	72,469,278	73.50
5	0.00033684	0.00033678	985,715	332	985,549	71,483,402	72.52
6	0.00029513	0.00029509	985,383	291	985,238	70,497,853	71.54
7	0.00026239	0.00026236	985,092	258	984,963	69,512,615	70.56
8	0.00023772	0.00023769	984,834	234	984,717	68,527,652	69.58
9	0.00023388	0.00023385	984,600	230	984,485	67,542,935	68.60
10	0.00023282	0.00023279	984,370	229	984,256	66,558,450	67.62
11	0.00023527	0.00023524	984,141	232	984,025	65,574,194	66.63
12	0.00025729	0.00025726	983,909	253	983,783	64,590,169	65.65
13	0.00028266	0.00028262	983,656	278	983,517	63,606,386	64.66
14	0.00031163	0.00031158	983,378	306	983,225	62,622,969	63.68
15	0.00034517	0.00034511	983,072	339	982,903	61,639,644	62.70
16	0.00036277	0.00036270	982,733	356	982,555	60,656,741	61.72
17	0.00040077	0.00040069	982,377	394	982,180	59,674,186	60.74
18	0.00043616	0.00043606	981,983	428	981,769	58,692,006	59.77
19	0.00047509	0.00047498	981,555	466	981,322	57,710,237	58.79
20	0.00051718	0.00051705	981,089	507	980,836	56,728,915	57.82
21	0.00051963	0.00051950	980,582	509	980,328	55,748,079	56.85
22	0.00053804	0.00053790	980,073	527	979,810	54,767,751	55.88
23	0.00054254	0.00054239	979,546	531	979,281	53,787,941	54.91
24	0.00054863	0.00054848	979,015	537	978,747	52,808,660	53.94
25	0.00067344	0.00067321	978,478	659	978,149	51,829,913	52.97
26	0.00072182	0.00072156	977,819	706	977,466	50,851,764	52.01
27	0.00073162	0.00073135	977,113	715	976,756	49,874,298	51.04
28	0.00074821	0.00074793	976,398	730	976,033	48,897,542	50.08
29	0.00080820	0.00080787	975,668	788	975,274	47,921,509	49.12
30	0.00080867	0.00080834	974,880	788	974,486	46,946,235	48.16
31	0.00085000	0.00084964	974,092	828	973,678	45,971,749	47.19
32	0.00097937	0.00097889	973,264	953	972,788	44,998,071	46.23
33	0.00108186	0.00108128	972,311	1,051	971,786	44,025,283	45.28
34	0.00117388	0.00117319	971,260	1,139	970,691	43,053,497	44.33
35	0.00128717	0.00128634	970,121	1,248	969,497	42,082,806	43.38
36	0.00135788	0.00135696	968,873	1,315	968,216	41,113,309	42.43
37	0.00148147	0.00148037	967,558	1,432	966,842	40,145,093	41.49
38	0.00165878	0.00165741	966,126	1,601	965,326	39,178,251	40.55
39	0.00179231	0.00179071	964,525	1,727	963,662	38,212,925	39.62
40	0.00182714	0.00182547	962,798	1,758	961,919	37,249,263	38.69
41	0.00197018	0.00196824	961,040	1,892	960,094	36,287,344	37.76
42	0.00205537	0.00205326	959,148	1,969	958,164	35,327,250	36.83
43	0.00218560	0.00218321	957,179	2,090	956,134	34,369,086	35.91
44	0.00232610	0.00232340	955,089	2,219	953,980	33,412,952	34.98
45	0.00245783	0.00245481	952,870	2,339	951,701	32,458,972	34.06
46	0.00265734	0.00265381	950,531	2,523	949,270	31,507,271	33.15
47	0.00303323	0.00302864	948,008	2,871	946,573	30,558,001	32.23
48	0.00349245	0.00348636	945,137	3,295	943,490	29,611,428	31.33
49	0.00392623	0.00391854	941,842	3,691	939,997	28,667,938	30.44
50	0.00445141	0.00444152	938,151	4,167	936,068	27,727,941	29.56
51	0.00484017	0.00482848	933,984	4,510	931,729	26,791,873	28.69
52	0.00524877	0.00523503	929,474	4,866	927,041	25,860,144	27.82
53	0.00555387	0.00553849	924,608	5,121	922,048	24,933,103	26.97
54	0.00589749	0.00588015	919,487	5,407	916,784	24,011,055	26.11
55	0.00654417	0.00652283	914,080	5,962	911,099	23,094,271	25.27
56	0.00705398	0.00702919	908,118	6,383	904,927	22,183,172	24.43
57	0.00753647	0.00750818	901,735	6,770	898,350	21,278,245	23.60
58	0.00816863	0.00813540	894,965	7,281	891,325	20,379,895	22.77
59	0.00875939	0.00872119	887,684	7,742	883,813	19,488,570	21.95
60	0.00948909	0.00944428	879,942	8,310	875,787	18,604,757	21.14
61	0.01024022	0.01018806	871,632	8,880	867,192	17,728,970	20.34
62	0.01128314	0.01121984	862,752	9,680	857,912	16,861,778	19.54
63	0.01255805	0.01247969	853,072	10,646	847,749	16,003,866	18.76
64	0.01394159	0.01384508	842,426	11,663	836,595	15,156,117	17.99
65	0.01556152	0.01544137	830,763	12,828	824,349	14,319,522	17.24
66	0.01748010	0.01732865	817,935	14,174	810,848	13,495,173	16.50
67	0.01945397	0.01926656	803,761	15,486	796,018	12,684,325	15.78
68	0.02147361	0.02124550	788,275	16,747	779,902	11,888,307	15.08
69	0.02361029	0.02333482	771,528	18,003	762,527	11,108,405	14.40
70	0.02583946	0.02550988	753,525	19,222	743,914	10,345,878	13.73
71	0.02807225	0.02768368	734,303	20,328	724,139	9,601,964	13.08
72	0.03020326	0.02975393	713,975	21,244	703,353	8,877,825	12.43
73	0.03282060	0.03229070	692,731	22,369	681,547	8,174,472	11.80
74	0.03608108	0.03544169	670,362	23,759	658,483	7,492,925	11.18
75	0.03956611	0.03879856	646,603	25,087	634,060	6,834,442	10.57
76	0.04409014	0.04313913	621,516	26,812	608,110	6,200,382	9.98
77	0.04971153	0.04850588	594,704	28,847	580,281	5,592,272	9.40
78	0.05604928	0.05452134	565,857	30,851	550,432	5,011,991	8.86
79	0.06225308	0.06037385	535,006	32,300	518,856	4,461,559	8.34
80	0.07136291	0.06890430	502,706	34,639	485,387	3,942,703	7.84
81	0.07796844	0.07504295	468,067	35,125	450,505	3,457,316	7.39
82	0.08515252	0.08167510	432,942	35,361	415,262	3,006,811	6.95
83	0.09143435	0.08743698	397,581	34,763	380,200	2,591,549	6.52
84	0.09914897	0.09446587	362,818	34,274	345,681	2,211,349	6.09
85	0.10883046	0.10321404	328,544	33,910	311,589	1,865,668	5.68
86	0.12026600	0.11344426	294,634	33,425	277,922	1,554,079	5.27
87	0.13279668	0.12452821	261,209	32,528	244,945	1,276,157	4.89
88	0.14206852	0.13264610	228,681	30,334	213,514	1,031,212	4.51
89		0.14863343	198,347	29,481	183,607	817,698	4.12
90		0.16687956	168,866	28,180	154,776	634,091	3.75
91		0.18762143	140,686	26,396	127,488	479,315	3.41
92		0.21123291	114,290	24,142	102,219	351,827	3.08
93		0.23814827	90,148	21,469	79,414	249,608	2.77
94		0.26887297	68,679	18,466	59,446	170,194	2.48
95		0.3039618	50,213	15,265	42,581	110,748	2.21
96		0.34420543	34,948	12,029	28,934	68,167	1.95
97		0.39030403	22,919	8,945	18,447	39,233	1.71
98		0.44323275	13,974	6,194	10,877	20,786	1.49
99		0.50409407	7,780	3,922	5,819	9,909	1.27
100†		1.00000000	3,858	3,858	4,090	4,090	1.06

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