

**LIFE TABLES FOR 191 COUNTRIES: DATA,  
METHODS AND RESULTS**

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## I Introduction

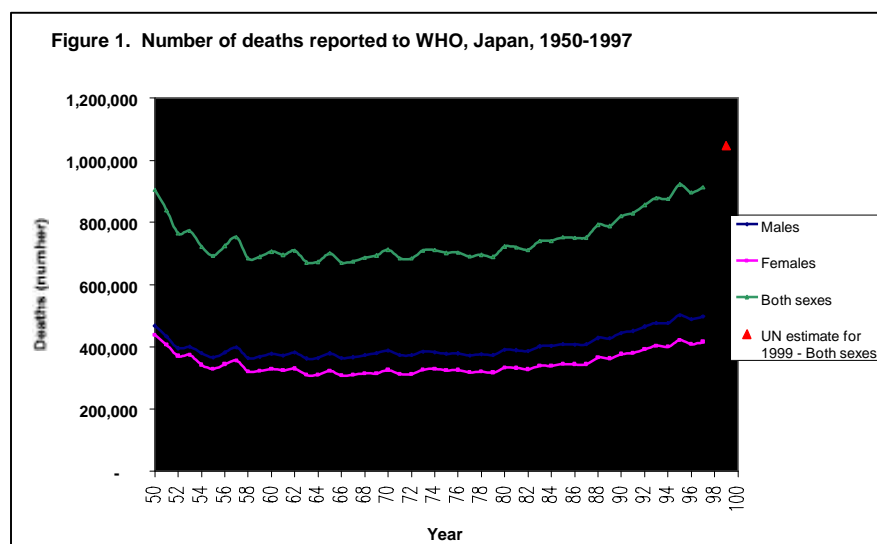
The life table is a key summary tool for assessing and comparing mortality conditions prevailing in populations. From the time that the first modern life tables were constructed by Graunt and Halley during the latter part of the 17<sup>th</sup> century, life tables have served as a valuable analytical tool for demographers, epidemiologists, actuaries and other scientists. The basic summary measure of mortality from the life table, the expectation of life at birth, is widely understood by the general public and trends in life expectancy are closely monitored as the principal measure of changes in a population's health status.

The construction of a life table requires reliable data on a population's mortality rates, by age and sex. The most reliable source of such data is a functioning vital registration system where all deaths are registered. Deaths at each age are related to the size of the population in that age group, usually estimated from population censuses, or continuous registration of all births, deaths and migrations. The resulting age-sex-specific death rates are then used to calculate a life table.

While the legal requirement for the registration of deaths is virtually universal, the cost of establishing and maintaining a system to record births and deaths implies that reliable data from routine registration is generally only available in the more economically advanced countries. Reasonably complete national data to calculate life tables in the late 1990s was only available for about 65 countries, covering about one-third of the deaths estimated to have occurred in 1999. In the absence of complete vital registration, sample registration or reliable information on mortality in childhood has been used, together with indirect demographic methods, to estimate life tables (1). This approach has been greatly facilitated by the availability of reliable estimates of child mortality in many countries of the developing world during the 1980s and 1990s under the Demographic and Health Surveys Programme.

Several international agencies and other demographic centres routinely prepare national mortality estimates or life table compilations as part of their focus on sectoral monitoring. Thus, UNICEF have periodically reviewed available data on child mortality to assess progress with child survival targets and to evaluate interventions (2). A recent update of trends in child mortality during the 1990s has also just been completed (3). Three agencies or organizations, the United Nations Population Division, the World Bank and the United States Census Bureau have all produced international compilations of life tables, and in the case of the Population Division at least, continue to update them biennially. These various studies generally rely on the same data sources - censuses, surveys and vital registration - but can produce quite different results due to differences in the timing of data availability, differences in judgement about whether or how the basic data should be adjusted, and differences in estimation techniques and choice of models. In all cases, estimation of life tables for the majority of countries still involves choosing a model life table approach and applying this to observed data, usually on child mortality, to estimate a full life table.

Careful review of these existing approaches suggests that all have some limitations. For example, in the latest United Nations demographic assessment carried out in 1998, the Republic of Korea and the Democratic Peoples Republic of Korea were assigned the same overall population life expectancy (72 years) for 1995-2000 and only marginally different child mortality rates (in absolute terms), despite evidence of dramatically different social and economic circumstances in the 1990s which would affect relative survival prospects in the two countries. Indeed, Robinson *et al* have estimated that crude deaths rates doubled between 1995 and 1997 as a result of the severe food crisis in the DPR of Korea during this period (4). Other difficulties relate to the timing of assessments. For example, the latest UN demographic assessment for Russia was prepared with data from the mid 1990s when adult mortality had only just peaked, after rising by 70% since 1987. As a result, the United Nations projections of mortality to the end of the decade greatly exceed the likely number of deaths, especially in middle age, following the abrupt reversal of death rates which commenced in 1995. In other cases the cause of discrepancies is not clear. In Japan, for example, the United Nations projections for 1999 suggest an annual total of 1.05 million deaths, about 100,000 more than the latest figure (913,000 for 1997) from vital registration (see Figure 1).



In India, adjusting the SRS system for underreporting of adult mortality, estimated at 13-14% in 1999 (5), yields an estimate of 10.1 million deaths in 1999, or 1.4 million more than the 1998 UN Population Assessment (6).

Differences such as these are not insignificant and have major implications for the monitoring, evaluation and reorientation of public health programmes in countries as well as at a global level. While it would obviously be desirable to develop a single set of life tables for all countries of the world, technical judgement, data availability and the timing of periodic assessments will continue to vary. Given WHO's needs for annual life table estimates as part of the continuous assessment of health system performance, and a preference for a model life table system based on the Brass logit system, rather than other families of model life tables (7), WHO has constructed a new set of life tables, the first results of which, for 1999, are reported in this paper.

The paper begins with a brief review of the sources, types and quality of the data available. We examine the different sources of data and the problems and difficulties involved in using them in generating life tables. We also provide a brief review of the two main approaches used by WHO to estimate the parameters of the Brass logit system ( $\alpha$ ,  $\beta$ ) for each country in 1999. For

countries with a long series of vital registration data, lagged-time series analysis was used. For all other countries,  $\alpha$  and  $\beta$  were estimated from either shorter time series of vital registration data or from survey or surveillance data on child and adult mortality. In the latter case, the new WHO model life table system (see Working Paper N° 8 in this series) was applied to generate life tables for 1999. Much of the remainder of the paper is dedicated to a discussion of how the basic demographic input for the method, levels of  ${}_5q_0$  and  ${}_{45}q_{15}$ , were estimated for countries. A brief summary of the major findings is provided at the end of the paper, and detailed country-specific life tables for WHO's 191 Member States are given in an Appendix.

## II Data Availability and Evaluation

### II.1 Vital Registration Data

Ideally, life tables should be constructed from a long historical series of mortality data from vital registration where the deaths and population of the de jure (or defacto) population-at-risk are entirely covered by the system. In order to compute life tables for a given year (i.e.1999) for which vital registration of deaths is not yet available for administrative reasons, short term projections are required from the latest available year. This will require an adequate time series of data, with at least 15-20 years of mortality statistics. Appendix A shows the availability of vital registration data on mortality at the World Health Organization which could be used for life table estimation.

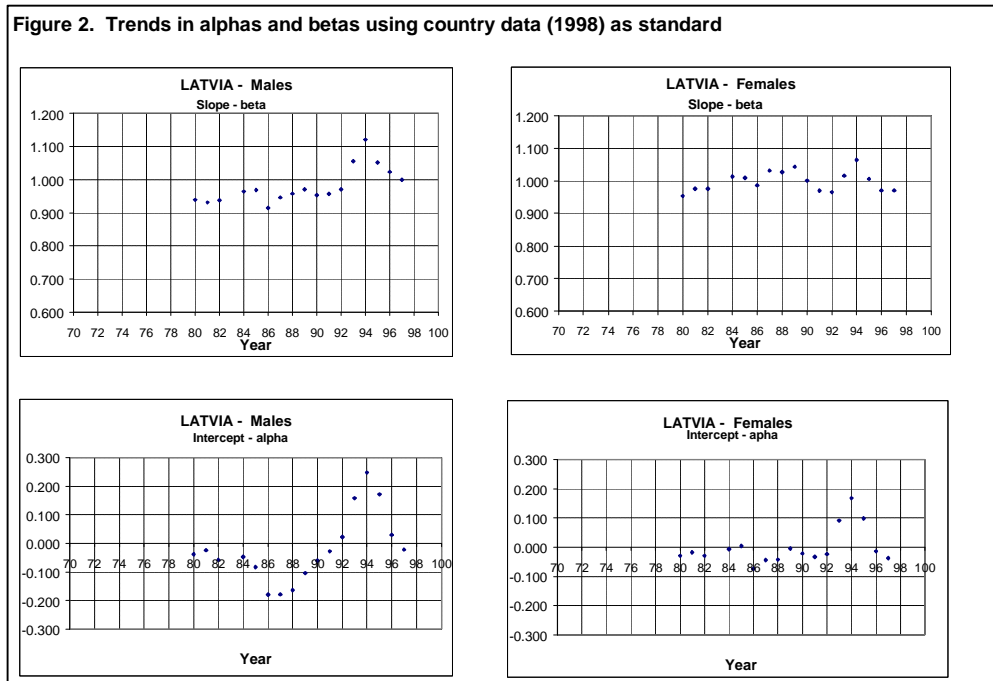
The basic criteria used in selecting countries for the time-series analysis, are availability of historical data (1) of good quality as judged by the internal consistency of the data as well as proportion of the population covered, (2) with no more than 5 year gap in the most recent period, and (3) with at least 10 observations to allow for a more robust projection. Following a review of the quality of the vital registration data, the following countries were deemed to have data suitable for projection. These include: Argentina, Australia, Austria, Barbados, Belgium, Bulgaria, Canada, Chile, Costa Rica, Cuba, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Malta, Mauritius, Mexico, Netherlands, New Zealand, Poland, Portugal, Romania, Singapore, Spain, Sweden, Switzerland, Trinidad & Tobago, UK, USA and Venezuela.

Other countries with a time series of data were rejected for failing one or more of the above criteria. They include: Armenia, Azerbaijan, Belarus, Estonia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Russian Federation and Uruguay. In addition to these countries, a further 40 or so countries had vital registration data of sufficient completeness for some years in the 1990s to permit the estimation of  ${}_5q_0$  and  ${}_{45}q_{15}$ . However, in several cases, adjustments were made to the vital registration data before the application of the Brass logit approach to estimate  $\alpha$  and  $\beta$ . Essentially, these 50 or so countries can be divided into the following categories in terms of data adjustments.

#### Category 1

Countries with complete or virtually complete registration of deaths for one or more years in the 1990s. Of these, several (including those mentioned above), had enough time points of vital registration data to estimate a trend in  $\alpha$  and  $\beta$  using simple linear regression. Corrections for underreporting were made where necessary based on the DHS or other information. For example, the 1985 DHS in Kazakstan suggested a level of  ${}_5q_0$  for the period 1990-94 of 45 per

1000, compared with 32 from the Ministry of Health (8). For Kyrgystan, the DHS estimate of  $5q_0$  (72 per 1000) was about 70% higher than that calculated from vital registration. The latest available year was then used as the standard for the Brass logit analysis and the time trends in  $\alpha$  and  $\beta$  projected to 1999 to yield a life table (see Figure 2 for an example of this approach using Latvian data). Life tables for twenty countries from the WHO European Region were estimated in this way.



### Category 2

In other countries, too few data points to permit trend analysis were available. In this case, the vital registration data were first screened for underreporting and adjusted where necessary using the Growth-Balance technique. Values of  $5q_0$  and  $45q_{15}$  were then estimated from the latest period life tables. These values were then plotted on the appropriate Regional  $\alpha$ - $\beta$  grid (see Working Paper N° 8) and a trajectory of  $(5q_0, 45q_{15})$  points was projected to 1999 based on regional trends for the 1990s suggested from the latest UN Demographic Assessment. Countries where this approach was used include Albania, Sao Tome and Principe, Seychelles, Cyprus, Republic of Korea, Antigua and Barbuda, Dominica, Grenada, St Kitts and Nevis, St Lucia and St Vincent and the Grenadines.

### Category 3

This group of countries includes the thirteen WHO Member States from the Western Pacific Region with small populations. Life tables for these countries based on vital registration or indirect methods were provided by the South Pacific Commission but in many cases referred to the late 1980s or early 1990s. Values of  $5q_0$  and  $45q_{15}$  from these life tables were plotted on the WPR B  $\alpha$  and  $\beta$  grid to estimate values of  $\alpha$  and  $\beta$ . A trajectory in these values was estimated based on the projected trend of mortality for the appropriate UN regional category (Micronesia, Polynesia, Melanesia) from the 1998 Demographic Assessment.

## II.2 Multi-source approaches for specific populations

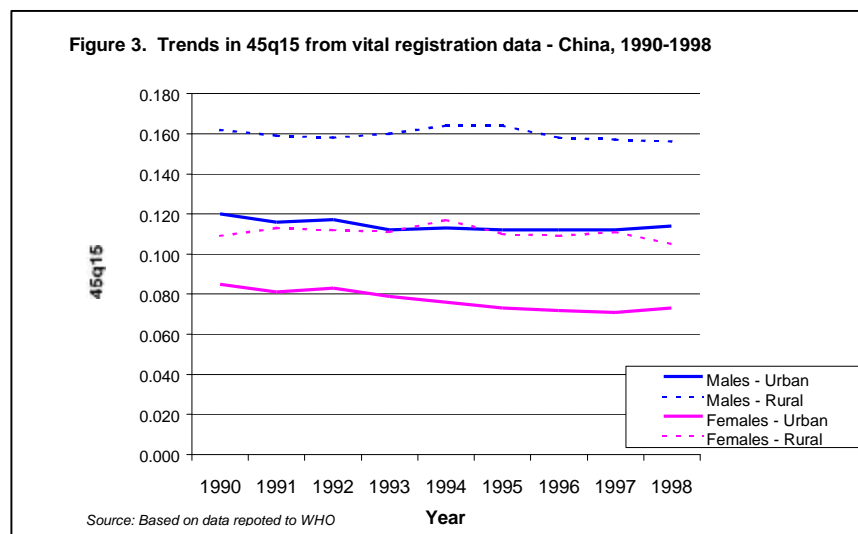
In three large developing countries, India, China and Brazil, several data sources, including vital registration, surveillance systems and surveys are available to estimate mortality rates. None of these systems is sufficiently reliable to produce life tables for these countries without adjustments, but all are useful to estimate child and adult mortality. The data sources used and the adjustments made to them are as follows:

### II.2.1 China

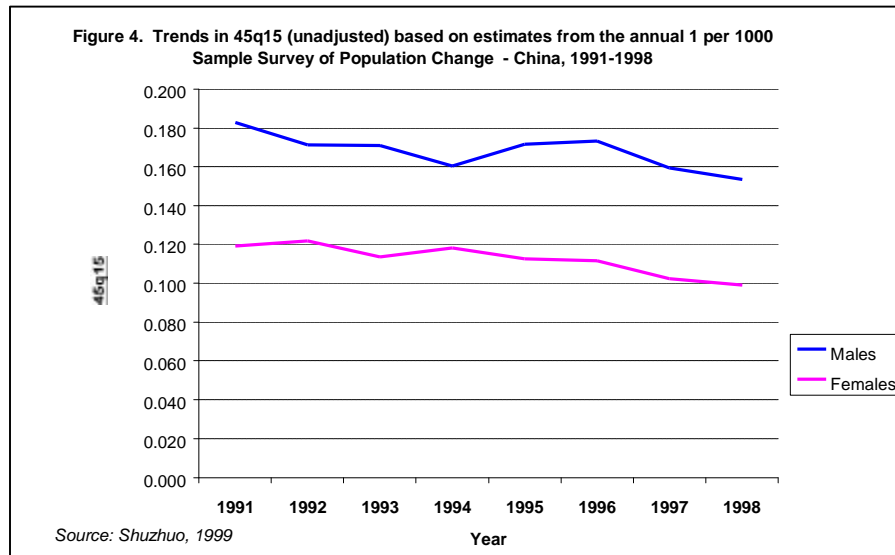
Three sources of mortality data were used to estimate the life table.

a) *Disease Surveillance Points (DSP)*. This is a nationally representative system of 145 epidemiological surveillance points operated by the Chinese Academy of Preventive Medicine and covering a population of 10 million people throughout China. Data on the age, sex and cause of 50,000-60,000 deaths are recorded each year. Periodic evaluations of the DSP data by re-surveying households at random suggest a level of underreporting of deaths of about 15% (9), although Growth-Balance of the data since 1991 suggests an average adjustment factor about twice this level. Annual data for the period 1991-1998 were used, with corrections, to estimate the trend in  ${}_5q_0$  and  ${}_{45}q_{15}$ .

b) *Vital Registration*. Data on the age, sex and cause of about 700,000 deaths are collected annually from the vital registration system operated by the Ministry of Health, covering a population of about 103 million, (63 million in urban areas, 40 million in rural areas). While the data are not representative of mortality conditions in China, they are useful for suggesting trends in mortality, given the number of deaths covered. Trends in  ${}_{45}q_{15}$  for the rural and urban coverage areas separately are shown in Figure 3. While underreporting yields implausibly low levels of  ${}_{45}q_{15}$ , these data suggest that there has been only a very modest decline in adult mortality during the 1990s (4-5% for males (both areas) and for females in rural areas, and 14% for females in urban areas).



c) *Survey data* from the annual 1 per 1000 household survey asking about deaths in the past 12 months. For example, the 1997 survey covered a population of 1,243,000 people spread over 864 counties (3164 townships, 4438 villages) in 31 provinces and recorded a total of 7,845 deaths. While this is a nationally representative sample, Growth-Balance methods suggest substantial underreporting of deaths (27% and 29% for males and females, respectively). Trends in the implied unadjusted  ${}_{45}q_{15}$  from the surveys in the 1990s are shown in Figure 4 and suggest a somewhat more substantial decline although the much smaller number of deaths compared with vital registration make trend assessment difficult (10).



In all three systems, data were available for the period 1991-1998. Since Growth-Balance analyses suggested that underreporting had remained relatively constant during the 1990s, the average annual decline in  ${}_5q_0$  and  ${}_{45}q_{15}$  suggested by these three data sources was first calculated and applied to the 1990 Chinese life table based on the census to project  ${}_5q_0$  and  ${}_{45}q_{15}$  to 1999. These values were then used with the WPR B standard to generate  $\alpha$  and  $\beta$  and hence the life table. Uncertainty around  ${}_5q_0$  and  ${}_{45}q_{15}$  in 1999 was generated from more optimistic and pessimistic assumptions about the rate of decline in these parameters during the 1990s.

## II.2.2 India

The most representative and reliable data on mortality rates by age and sex in India come from the Sample Registration System (SRS) which has been in operation for several decades. We used data for the period 1990-1997 (latest year available) to compute annual life tables. Data are collected on vital events in about 4200 rural and 2200 urban sampling units with a population of about 6 million people covering almost all States and Territories. Comparison of  ${}_5q_0$  from the SRS with the rate reported from the DHS (National Family Health Survey) conducted in 1992-93 yield very similar results suggesting that underreporting of child deaths is minimal. On the other hand, underreporting of adult deaths in the SRS during the 1990s has probably increased to around 15% based on the Bennett-Horochi variable -r methodology (5). We therefore corrected the SRS death rates at all ages 5 and over by 14% for males and 16% for females. Using the SEAR D standard population,  $\alpha$  and  $\beta$  pairs were generated for each year from 1990 to 1997 based on corrected SRS data and projected forward to 1999 by averaging mortality data for the

periods 1990-92, 1993-94, and 1995-97. Uncertainty intervals around  $\alpha$  and  $\beta$  were generated from plausible projections to 1999 of the trend lines in  $\alpha$  and  $\beta$ .

### II.2.3 Brazil

Individual-level records on all deaths by age, sex and cause reported in Brazil from 1979-1987 were obtained from the Ministry of Health. Data for 1995-97 (about 940,000 deaths), were aggregated into some 5,500 municipios based on place of residence codes on the death records. These municipios were then aggregated into ten clusters of deciles, based on a factor analysis of socio-economic characteristics (primarily education variables) of each municipio from the 1996 census. The extent of underreporting within each decile was estimated using Growth-Balance methods (ranging from 16% to 40%) and death rates were corrected accordingly for each municipio (11). Age-specific death rates for Brazil were then obtained from the distribution of age-specific rates across the municipios. A further correction was made to the estimated level of  ${}_5q_0$ , for males and females separately to ensure that the male/female ratio of child mortality and the estimated levels were consistent with the findings of the 1996 Brazilian DHS.

### II.3 Estimating mortality from survey data alone

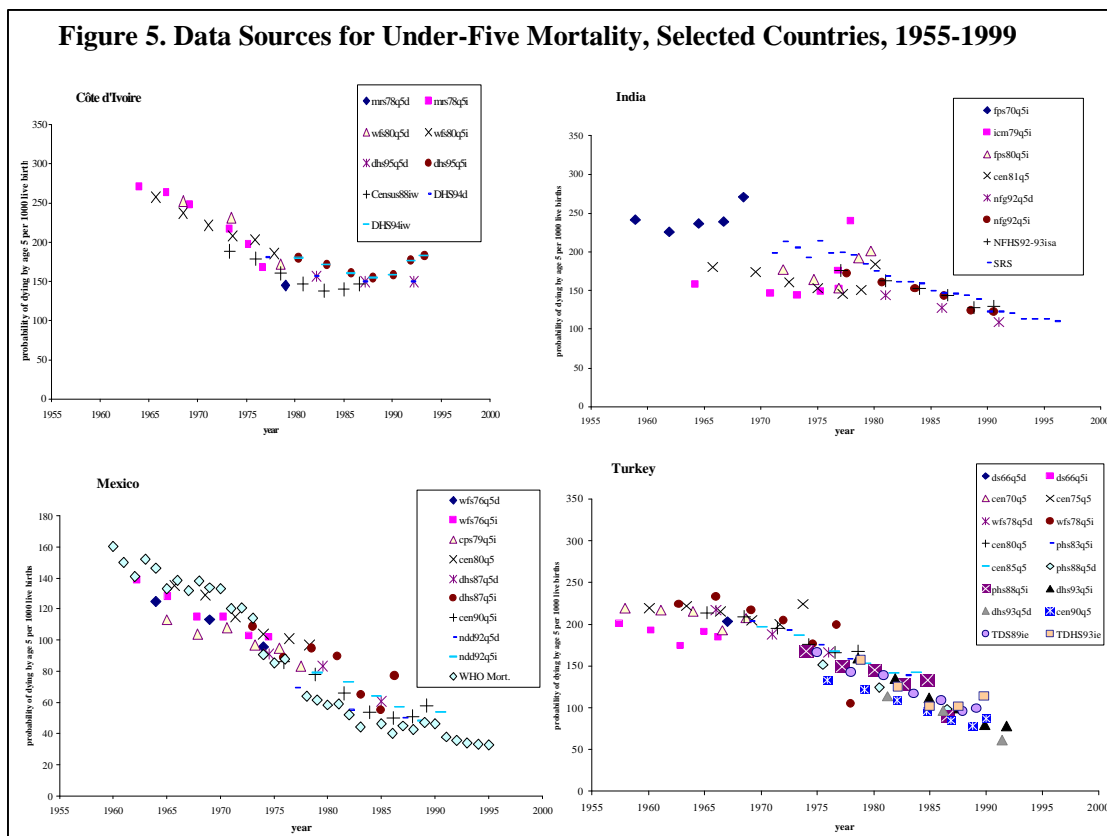
For the remaining countries, the challenge was to estimate levels of  ${}_5q_0$  and  ${}_{45}q_{15}$  in 1999, as well as uncertainty bounds, in order to apply the Brass logit system with the appropriate Regional standard.

#### II.3.1 Estimates of child mortality

Most developing countries have conducted surveys or censuses which permit direct or indirect estimation of child mortality in the 1990s. The Demographic and Health Surveys Programme alone provides comparable information on child mortality in more than 60 countries. Ahmad *et al.*, (3) have systematically reviewed all available data on child mortality back to the early 1960s (see Appendix B) and prepared estimates of  ${}_5q_0$  in 1999 for all WHO Member States. More details on the data sources and methods can be found in their paper. Essentially, all plausible data points were first plotted on a time scale and then averaged to obtain quinquennial estimates from 1965 to 2004 (see Figure 5 for an example of the data plots for selected countries). Estimates for 1999 were obtained by interpolation of the estimated trend since 1990-94. This review builds on previous studies by Hill *et al.*, (2) and the United Nations (12). Uncertainty ranges around  ${}_5q_0$  were suggested by the scatter of plausible points from the plots and this was used to generate uncertainty levels around  $\alpha$  and  $\beta$ .



**Figure 5. Data Sources for Under-Five Mortality, Selected Countries, 1955-1999**



### II.3.2 Estimates of Adult Mortality

Measuring adult mortality is inherently more difficult than measuring child mortality because of the relative rarity of the former. Thus obtaining precise measurement of adult mortality requires large samples of observations or on data covering long reference periods. Also, in contrast to child mortality estimation where information is easily collected from affected mothers, it is often difficult to identify the right informant to provide information on deceased adults. This often results in problems of under-counting and multiple reporting. Often the informant does not know the age of the deceased and birth certificates are often not available for older people in most developing countries. As a result, errors in the reporting of age can severely limit the ability to obtain good estimates of adult mortality.

The most widely used method of measuring adult mortality from unconventional data is that using information on the survival of mother and father to estimate adult female and male survivorship, respectively. Other rival methods include those using information on (a) survival of first husbands to estimate male adult survivorship, (b) survival first wives to estimate female adult survivorship, (c) survival of siblings; brothers and sisters. These methods, although theoretically sound, have yielded varying degrees of success.

The possibility of deriving male and female survivorship from information on the *survival of parents* (classified by age group of respondents), was first suggested by Henry (12). Brass was the first to develop a convenient procedure for obtaining estimates of standard life table measures from proportion of respondents with surviving parents (13). The methodology has since been refined through the use of a wide range of model situations (UN, 1984 –Manual X). While the results obtained are the same, the newer methods are more convenient to apply thus

making them the preferred techniques. Brass and Bamgboye (14) have developed a procedure for defining the time location of each estimate.

There are problems with the application of these methods. Among the most common finding is the unusually high proportion of young respondents with a surviving mother. A finding commonly referred to as the “adoption effect” since it is believed to be partly due to the practice of assuming an adopted child is a natural offspring. For these reasons, the proportions not orphaned among respondents under 15 are almost always unusable. For the age range 15 to 50 years, the mortality implied by the proportion with surviving parents increases with age up to about 40 years, and then begins to decline. This decline accelerates after age 50 years either as a result of reporting errors or selection effects. Thus only information from respondents between the ages of 15 and 50 years is reliable. A higher proportion of surviving parents for male than for female respondents also often characterize this technique. This peculiarity could arise from either exaggeration of male age relative to females or decline in sex ration at birth with age of mother. One strategy is to analyze the proportion with surviving mother for both sexes combined.

One major drawback to the method is the effect of multiple reporting for mothers with many surviving children. Thus low mortality families may bias mortality downwards. Attempts to ask this question of a particular respondent, e.g., first born or eldest surviving, has not been successful. Also, only women with surviving children are included. Thus if women with surviving children experience higher mortality risks, the mortality of the population as a whole will be underestimated. The methodological problems associated with the survival fathers are more serious than those with mothers.

Problems associated with the use of information on survival of mothers and fathers led to the development of procedures for adult mortality estimation that are based on the widowhood method (15). Techniques were derived for estimating male mortality from reports of female respondents and vice versa. To circumvent the difficulties involved in modelling the effects of remarriage of the widowed and divorced, information is collected on the survival of first spouses. The procedure is based on the relationship between adult survivorship probabilities and the proportions of ever-married respondents in successive age or duration of marriage groups. The results have tended to be disappointing. Widowhood estimates tend to fluctuate sharply with age, are not generally consistent with other mortality indicators, and tend not to show plausible sex differentials in adult mortality. Other factors that may affect the application of this technique concern real uncertainties about survival status in cases of marriage break up other than widowhood, or uncertainty about the definition of first spouse. Men appear to be ignorant of, or unwilling to report, their wives' former marriages. Also, if mortality of spouses is correlated, estimates from the widowhood method will be biased. Hence, this technique is definitely not indicated in situations with high HIV/AIDS prevalence. The estimates based on the widowhood method often suggest constant or increasing adult mortality (16).

The *sibling method* falls in the same category as the orphanhood and widowhood methods. Hill and Trussell (17) proposed a procedure using proportions of surviving siblings. It is very vulnerable to serious reporting errors. Respondents are often unaware of the existence of siblings who died long before they were born or when they were very young. A modified form of this technique has recently been used in the measurement of maternal mortality (18). This approach restricts questions about deaths to those siblings who survive to age 15 years or survived long enough to marry.

A systematic review of all data sources on adult mortality was undertaken, based on surveys, censuses and demographic surveillance systems for those countries without routine vital registration. The sources, methods and findings are summarized in Appendix C for Africa which contains the majority of countries where vital registration is inadequate for estimating adult mortality. Figure 6a graphs all available estimates of  ${}_{45}q_{15}$  for males, irrespective of the data source or period of reference of estimation technique.

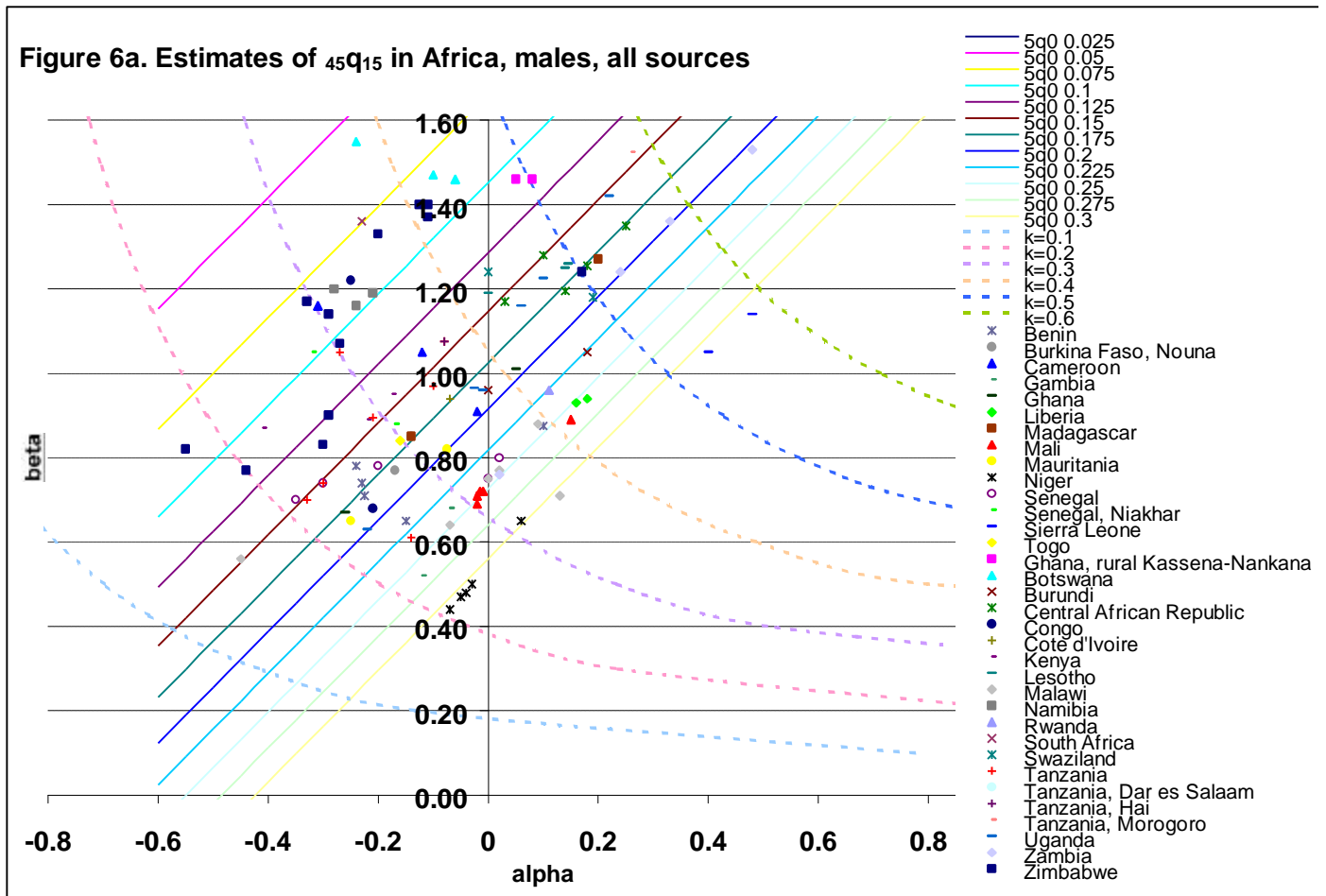
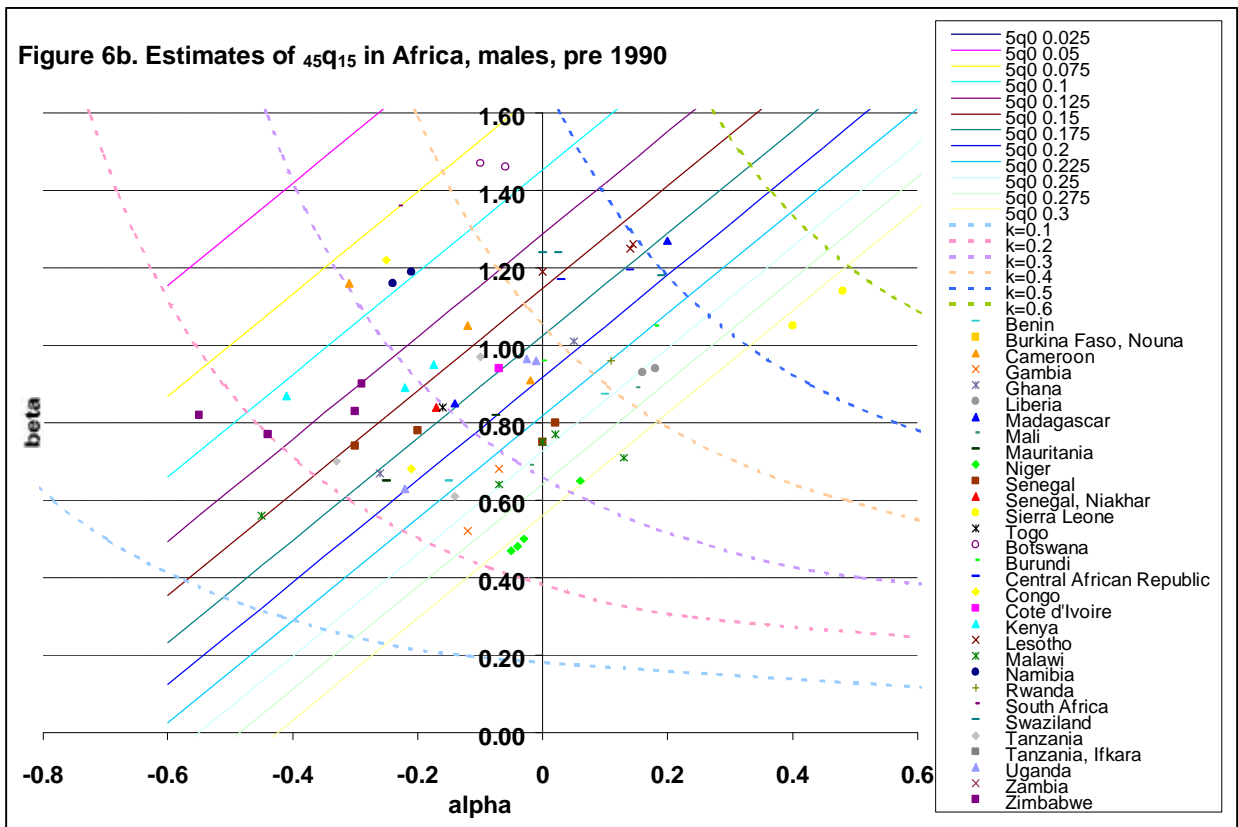
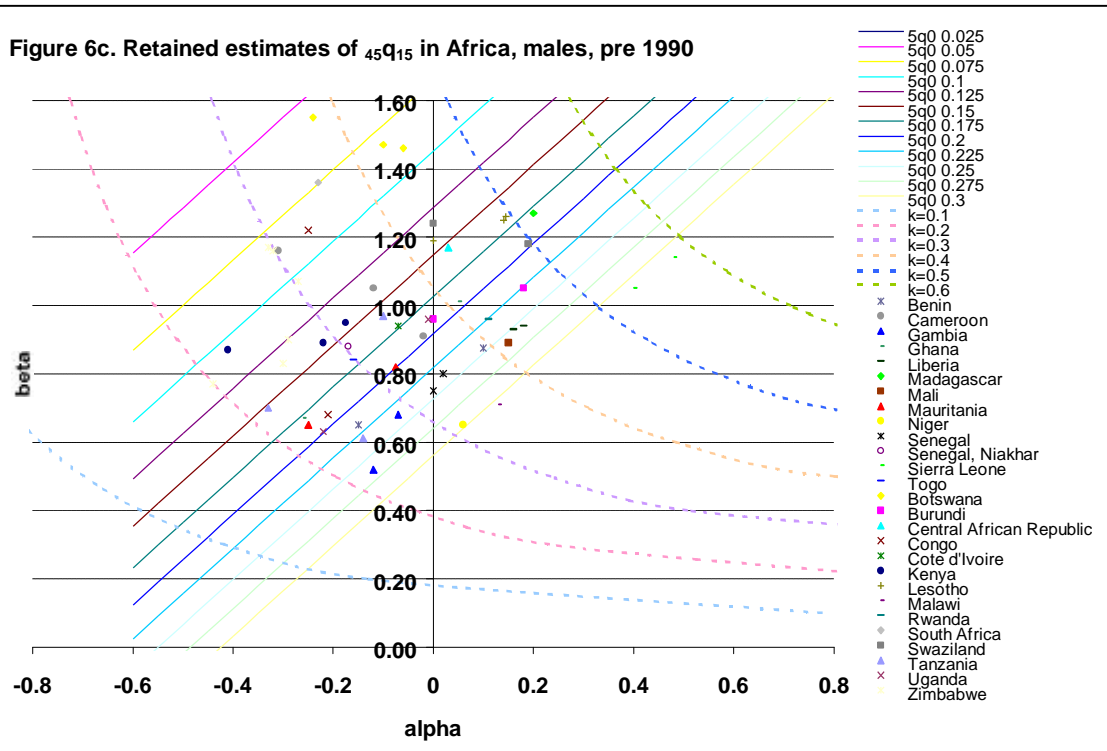


Figure 6b shows only estimates prior to 1990 when deaths from HIV/AIDS were not yet sufficiently common to alter adult mortality levels significantly. All estimates have been plotted on the  $\alpha$ - $\beta$  grid for Africa using the WHO African Standard Life Table (7).



While in principle demographic surveillance systems should be a reasonable source of data on deaths in the populations under surveillance, the levels of  ${}_{45}q_{15}$  suggested by these systems suffer from underreporting. Levels of  ${}_{45}q_{15}$  for females of 127 per 1000 for women in Niakhar in Senegal, for example, are improbably low, when compared with current estimates of around 110 in Mexico and 85 in the USA. The sibling technique has been widely used in the Demographic and health Surveys Programme in Africa but seriously underestimates mortality. For example, in Tanzania, reasonably complete demographic surveillance in three areas - Hai, Dar-es-Salaam and Morogoro - under the Adult Mortality and Morbidity Project (19) suggests levels of  ${}_{45}q_{15}$  for men of around 450-500 per 1000 for 1993/94, compared with around 300 per 1000 suggested from the sibling method. In Niger, the method suggests levels of  ${}_{45}q_{15}$  of around 220 per 1000 for men in the 1980s, which again appears to be a considerable underestimate compared with contemporary levels, in much wealthier countries (e.g. 220 per 1000 in Colombia, or 190 per 1000 in Egypt in 1999 (20)). Comparisons of different methods for Zimbabwe around 1990 suggest that the sibling technique underestimates  ${}_{45}q_{15}$  by anywhere from 50-100%. Independent review of the sisterhood method also suggest that the technique probably underestimates adult mortality by 15-60% (21).

The remaining data on levels of adult mortality in Africa prior to 1990, once the implausible points had been removed, are shown in Figure 6c for males (a similar procedure was followed for females). The range of plausible  $k$  (i.e.  ${}_{45}q_{15}$ ) values varies from about 200-500 per 1000 in the pre-HIV era. These points, in conjunction with pre-1990 estimates of adult mortality from the 1998 United Nations Demographic Assessment (6) were used to define uncertainty bounds on the trajectories for non - HIV/AIDS adult mortality to 1999 for Sub-Saharan African countries. These were then used to generate ranges on  $\alpha$  and  $\beta$  using the Africa Regional standard, as described in the following section. United Nations estimates of adult mortality were used to generate uncertainty intervals for  ${}_{45}q_{15}$  in 1999 in countries where no other data sources were available.



### III Life Table Methods

The Brass relational method provides an elegant means of forecasting mortality in situations where reasonably good time series of data exist. Brass found that any expression of one life table ( $l_x$ ) in terms of another is easier if both are translated into logits:

$$\text{logit}(l_x) = \mathbf{I}_x = \frac{1}{2} \ln \left( \frac{1 - l_x}{l_x} \right)$$

When  $l_x$  is near unity the logit,  $\mathbf{I}_x$ , is near -4; when  $l_x$  is near zero,  $\mathbf{I}_x$ , is near +4. The principles of the relational method rest on the assumption that any two distinct age-patterns of mortality can be related to each other by a linear transformation of the logit of their respective survivorship values (22). The procedure starts with a standard life table and then incorporates this in an analytical expression that contains two constants, " and  $\mathbf{I}$ . The former captures the level and the latter the age pattern of mortality. The arbitrary exogenous standard that is selected adds no parameter to the model. Thus for any two observed series of survivorship values,  $l_x$  and  $l_x^s$ , where the latter is the standard, it is possible to find constants  $\mathbf{a}$  and  $\mathbf{b}$  such that

$$\text{logit}(l_x) = \mathbf{a} + \mathbf{b} \text{logit}(l_x^s)$$

Given the definition of  $\text{logit}(l_x)$  above, this reduces to

$$0.5 \ln \left[ \frac{(1.0 - l_x)}{l_x} \right] = \mathbf{a} + 0.5 \mathbf{b} \ln \left[ \frac{(1.0 - l_x^s)}{l_x^s} \right]$$

for all ages  $x$  between  $l$  and  $T$ . If the above equation holds for every pair of life tables, then any two suitably chosen parameters " and  $\mathbf{I}$  can carry one from the standard to any other life table. In reality, the assumption of linearity is only approximately satisfied by pairs of actual life tables. However, the approximation is close enough to warrant the use of the model to study and fit observed mortality schedules. One universal standard might provide a reasonable fit in nearly all circumstances, although considerable improvement in the fit is gained by an appropriate selection of a standard.

#### III.1 Time Series analysis

Within the WHO mortality database, about 40 countries have data that could be considered suitable for forecasting using the above approach. In some cases the sequences go back to

1950. Using a recently observed life table as the standard appropriate to a particular country, it was possible to obtain a time series of " , \$ pairs representing a sequence of past life tables. A plot of " and \$, respectively, against time provided a trajectory of mortality trends. Where the points all fell on a straight line, then that line could theoretically be projected forward, provided the extrapolation fell within interpretable limits. Where on the other hand the trend in the points was erratic, the system could not provide an adequate forecast. In such situations, suitable techniques must then be applied to project mortality given this pattern.

As a result, three models were developed to accommodate different scenarios. In the first model the parameter at time  $t$  is assumed to be a simple linear function of time  $t$ :

$$\hat{a}_t = g_l + g_l t$$

$$\hat{b}_t = f_l + f_2 t$$

This model is likely to suit situations where the trend in " or \$ are clearly linear. In the second model, the " and \$ parameters at time  $t$  are assumed to be lagged linear functions of the parameters in the preceding periods. Thus the parameters for time  $T+1$  are based on lag 1 model, those for time  $T+2$  are based on lag 2 model, etc., where  $T$  corresponds to the time location of the standard life table. The following equations summarize these relationships:

$$\hat{a}_{T+1} = g_l + g_l a_T \quad \hat{b}_{T+1} = f_{11} + f_{21} b_T \quad \text{1st forecast point}$$

$$\hat{a}_{T+2} = g_2 + g_2 a_T \quad \hat{b}_{T+2} = f_{12} + f_{22} b_T \quad \text{2nd forecast point}$$

$$\hat{a}_{T+3} = g_3 + g_3 a_T \quad \hat{b}_{T+3} = f_{13} + f_{23} b_T \quad \text{3rd forecast point}$$

.....

$$\hat{a}_{T+n} = g_n + g_n a_T \quad \hat{b}_{T+n} = f_{1n} + f_{2n} b_T \quad \text{last forecast point}$$

This model is likely to be more suitable in situations where there are clear linear trends, but also regular oscillations in parameter values over time. The third approach combines the above two models:

$$\hat{a}_{T+1} = g_l + g_l a_T + g_l (T+1) \quad \hat{b}_{T+1} = f_{11} + f_{21} b_T + f_{31} (T+1) \quad \text{1st forecast point}$$

$$\hat{a}_{T+2} = g_2 + g_2 a_T + g_2 (T+2) \quad \hat{b}_{T+2} = f_{12} + f_{22} b_T + f_{32} (T+2) \quad \text{2nd forecast point}$$

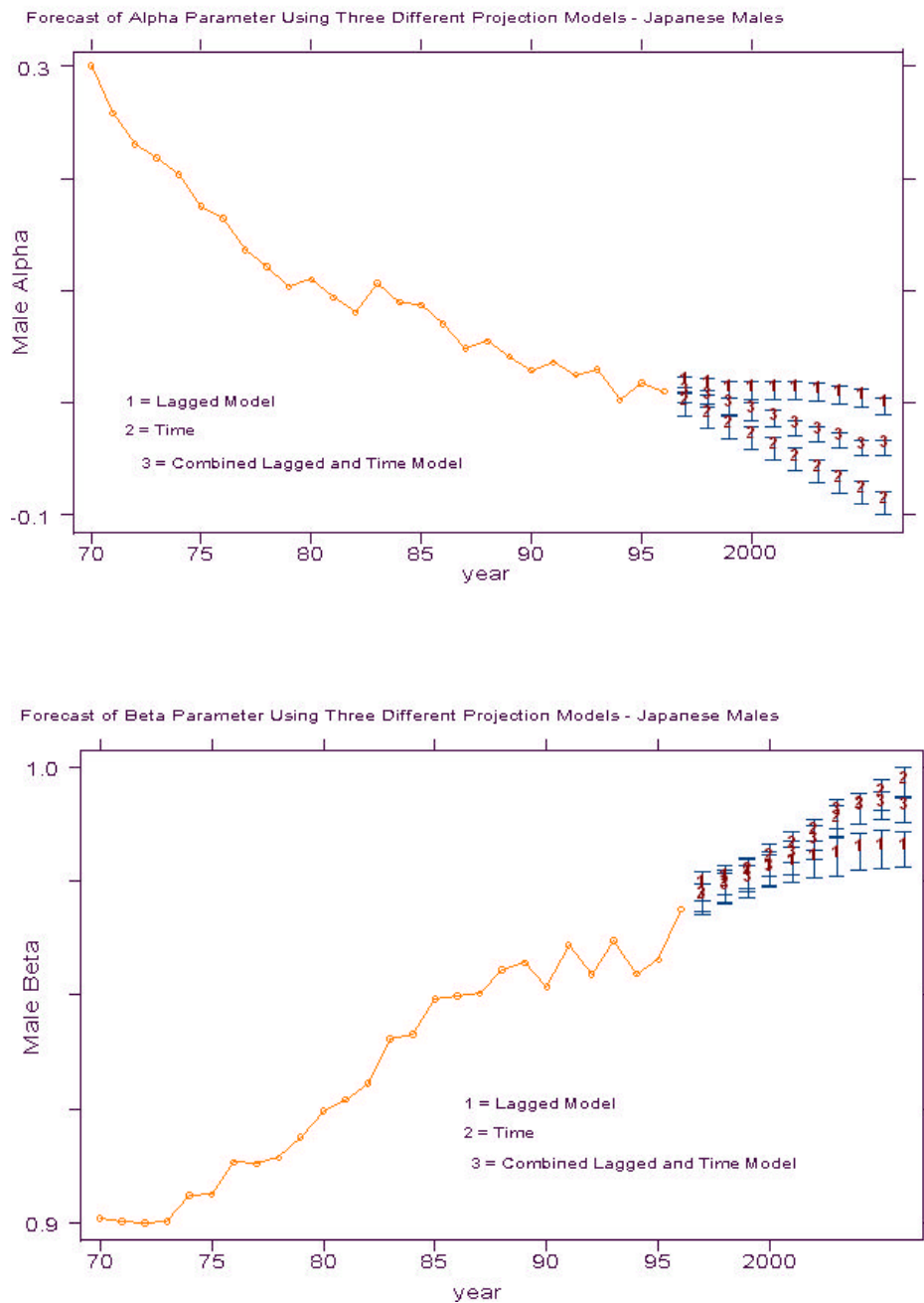
$$\hat{a}_{T+3} = g_3 + g_3 a_T + g_3 (T+3) \quad \hat{b}_{T+3} = f_{13} + f_{23} b_T + f_{33} (T+3) \quad \text{3rd forecast point}$$

.....

$$\hat{a}_{T+n} = g_n + g_n a_T + g_n (T+n) \quad \hat{b}_{T+n} = f_{1n} + f_{2n} b_T + f_{3n} (T+4) \quad \text{last forecast point}$$

This model is likely to be more suitable in situations where there are complex linear trends. In each country, all three models were used to forecast parameter estimates. The model that yielded time series of estimates which best fitted the historical trend was deemed adequate for that country. Figure 7 shows an example of outputs giving the results of the three models for Japan. Model 1 appears to fit the trend in  $\alpha$  for both Japanese males and females. The figure also shows the erratic nature of the rise in alpha for both males and females. This makes the choice of model rather difficult. In the case of Japan, model 1 was again selected as the best fitting model. On rare occasions, the best fit was obtained from aggregating the parameters from two competing models.

**Figure 7. Alpha and beta forecast for Japan (males) using ARIMA**





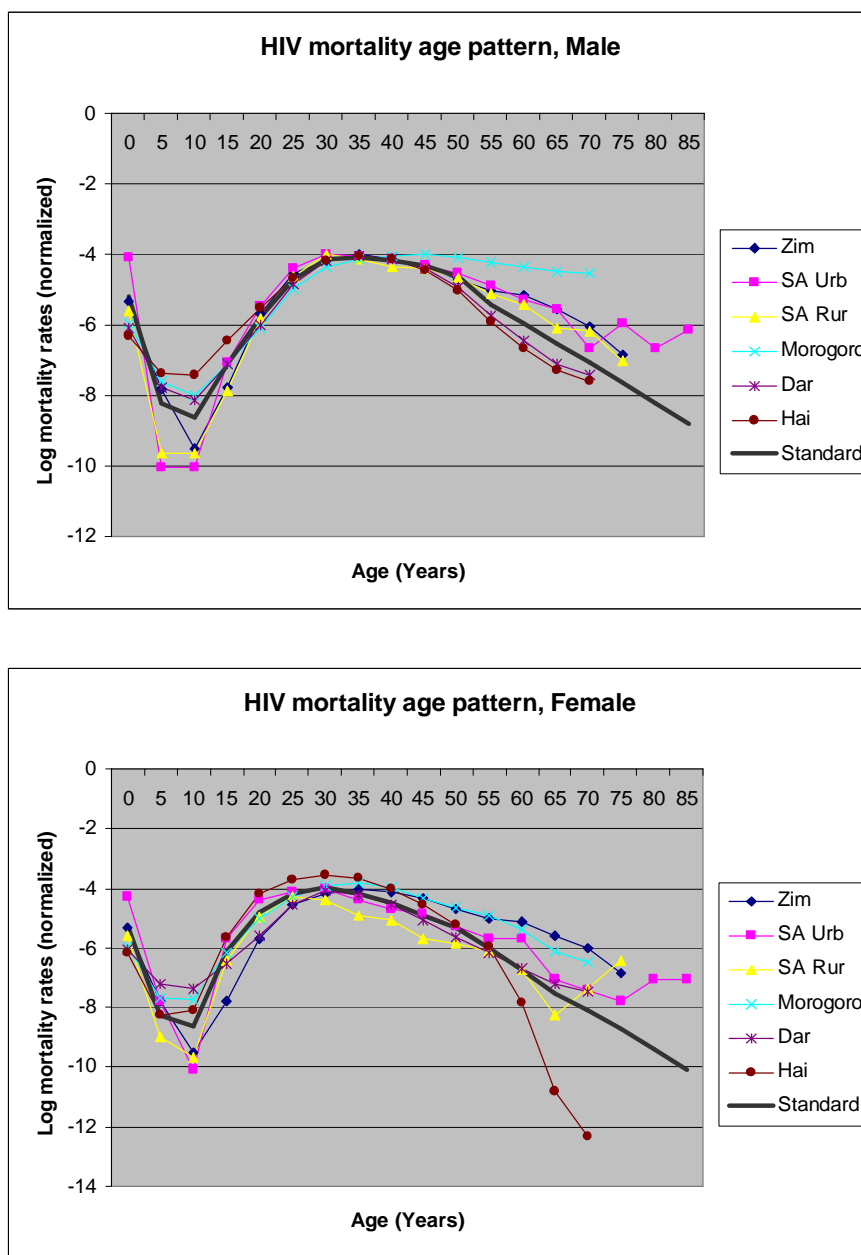
### III.2 Generating Life tables from estimates of child and adult mortality

Where time series data on age-specific mortality patterns are not available, it is not possible to generate life tables using forecast models that extrapolate from past trends. In these settings, it is nevertheless possible to use information on the general level of child and adult mortality in a given year to develop estimates and ranges around  $\mathbf{a}$  and  $\mathbf{b}$  and thus, using the logit approach as described above, a complete life table. Details on the general approach to estimating  $\mathbf{a}$  and  $\mathbf{b}$  based on estimates of  ${}_5q_0$  and  ${}_{45}q_{15}$  and the WHO system of model life tables are described in Working Paper no. 8 (7). In short, given some standard life table, an infinite number of different life tables may be represented simply as Cartesian points in a space defined along  $\mathbf{a}$  and  $\mathbf{b}$  axes. Each  $(\mathbf{a}, \mathbf{b})$  pair combines with the standard to define a unique life table according to the Brass relational model. In addition, it is possible to represent different levels of  ${}_5q_0$  as lines in the  $(\mathbf{a}, \mathbf{b})$  plane and different levels of  ${}_{45}q_{15}$  as curves in the same plane. Estimates of  ${}_5q_0$  and  ${}_{45}q_{15}$  in a population may then be translated into complete life tables by identifying the  $(\mathbf{a}, \mathbf{b})$  point at the intersection of the specified  ${}_5q_0$  isobar with the specified  ${}_{45}q_{15}$  isobar.

### III.3 Estimating mortality from HIV/AIDS

In each country, the total number of adult AIDS deaths was derived from backcalculation models using sentinel surveillance data on prevalence in pregnant women, with updates of previously published models (23) where more recent data has become available. In order to estimate age and sex-specific mortality, we have analyzed registration and surveillance data on AIDS mortality from the following sources: the Adult Morbidity and Mortality Project in three districts of Tanzania; vital registration data from urban and rural South Africa; and Zimbabwe vital registration. These data provide the only reliable sources of population-based information on cause-specific mortality in continental sub-Saharan Africa. In Figure 8 we have plotted the relative age and sex pattern of mortality rates from each of these sources, normalizing on the highest observed rate in each site. There is remarkable consistency in the pattern across these different sources, with the main differences appearing at the youngest and oldest ages. Based on these sources, we have developed a regional standard age pattern by taking the weighted average of these sources. The regional standard appears as a thick line in Figure 8. Using this standard, a given estimate of total adult deaths may be translated into age-specific death rates by applying the standard pattern of rates to the population age structure and then rescaling all of the rates such that the total number of deaths matches the specified figure.

Figure 8. Age pattern of HIV mortality



Given the dearth of data from which to estimate AIDS mortality directly and the uncertainties introduced by the backcalculation approach, it is important to try to quantify the level of uncertainty around the mortality estimates that result from these methods. Where enough data were available to undertake a maximum likelihood estimation approach in the backcalculation models (i.e. about 20 countries), the results included a measure of uncertainty around mortality estimates in each year. For the remaining countries, uncertainty intervals were derived based on an assessment of the coverage and representativeness of sentinel surveillance sites in each country. Probability distributions around the total number of deaths were then translated into distributions around age and sex-specific mortality rates using numerical simulation methods. By sampling 1000 draws from these distributions, uncertainty around AIDS mortality was incorporated into the uncertainty estimates in the life tables.

### III.4 Uncertainty Bounds

There are several sources of uncertainty around the final values of  $e$  and  $q$  obtained from these models, including model uncertainty as to the correct specification as well as estimation uncertainty in identifying values for the regression coefficients. A detailed discussion of the sources of uncertainty and methods for uncertainty analysis for life tables may be found in Salomon and Murray (24). The level of uncertainty around estimates of  $a$  and  $b$  depends in part on the uncertainty around the regression coefficients  $C_{ij}$  and  $N_{ij}$ , and in turn implies some level of uncertainty around the life tables that are computed from these parameters. Because a complete life table is a complicated nonlinear function of the uncertain parameters, we have used Monte Carlo simulation techniques to develop numerical estimates of the ranges of uncertainty around the life tables. This uncertainty is captured by taking random draws of the regression coefficients  $C_{ij}$  and  $N_{ij}$  from normal distributions with means equal to the estimated coefficients and variances derived from the standard errors in the regression. In each of 1000 iterations, the draws of  $C_{ij}$  and  $N_{ij}$  are used to generate  $e$  and  $q$  estimates, which are then translated into complete life tables. Thus probability distributions may be defined around life table estimates by analysing the 1000 different simulated life tables. For example, a range may be defined around the estimate for life expectancy at birth by sorting the 1000 different estimates of  $e(0)$  in the simulated life tables and then identifying the 25<sup>th</sup> and 975<sup>th</sup> values as the bounds of an approximate 95% confidence interval.

In order to generate life tables and ranges of uncertainty around the life tables for countries that did not have time series data on mortality by age and sex, we undertook the following steps. First, point estimates and ranges around  ${}_5q_0$  and  ${}_{45}q_{15}$  for males and females were developed on a country-by-country basis as described in detail in Section II. For each of these sets of estimates, corresponding  $(a, b)$  pairs were identified using the graphical method described above and the relevant regional model life table. Using Monte Carlo simulation methods, 1000 random samples were drawn from normal distributions around  $a$  and  $b$  with mean values equal to the point estimate defined by the intersection of the  ${}_5q_0$  and  ${}_{45}q_{15}$  isobars and variances defined in reference to the ranges of uncertainty around  ${}_5q_0$  and  ${}_{45}q_{15}$ . In countries where uncertainty around  ${}_5q_0$  and  ${}_{45}q_{15}$  was considerable due to a paucity of survey or surveillance information we have sampled from wide distributions but then constrained the results based on estimates of the maximum and minimum plausible values for  ${}_5q_0$  and  ${}_{45}q_{15}$ . For each country, the results of this analysis were 1000 different simulated life tables which were then used to describe ranges around key indicators such as life expectancy at birth.

## IV Results

The first ever compilation of life tables for all WHO Member States are presented in detail in Appendix D. For each age, estimates of central death rates ( ${}_nM_x$ ), the probability of dying ( ${}_nq_x$ ), number of survivors ( $l_x$ ), and expectation of life ( $e_x$ ) are shown. The principal summary measures of mortality conditions from the 1999 life tables are shown in Annex Table 1 for all WHO Member States.<sup>1</sup> Closer inspection reveals a very marked differential in the mortality rates of countries at the end of the 20<sup>th</sup> century. Overall life expectancy at birth (both sexes combined) ranges from 80.9 years in Japan (84.3 females, 77.6 for males) to 34.3 years in Sierra Leone (Table 1). For males, the next highest life expectancy was estimated for

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<sup>1</sup> Note that the figures may differ in some cases from the life tables reported in Appendix D due to rounding.

Sweden (77.1 years), followed by Australia (76.8), Canada (76.2), Israel (76.2) and Iceland (76.1). Male life expectancy exceeded 75.0 years in 17 countries in 1999.

**Table 1. Life Expectancy at birth (years), top 10 and bottom 10 countries, 1999**

Top 10 countries		Bottom 10 countries			
1	Japan	80.9	1	Sierra Leone	34.3
2	Australia	79.5	2	Malawi	37.9
3	Sweden	79.5	3	Zambia	38.5
4	Switzerland	79.3	4	Niger	38.9
5	France	79.3	5	Botswana	39.4
6	Monaco	79.1	6	Zimbabwe	40.5
7	Canada	79.1	7	Rwanda	41.8
8	Andorra	78.8	8	Uganda	42.2
9	Italy	78.7	9	Ethiopia	42.3
10	Spain	78.7	10	Mali	42.7

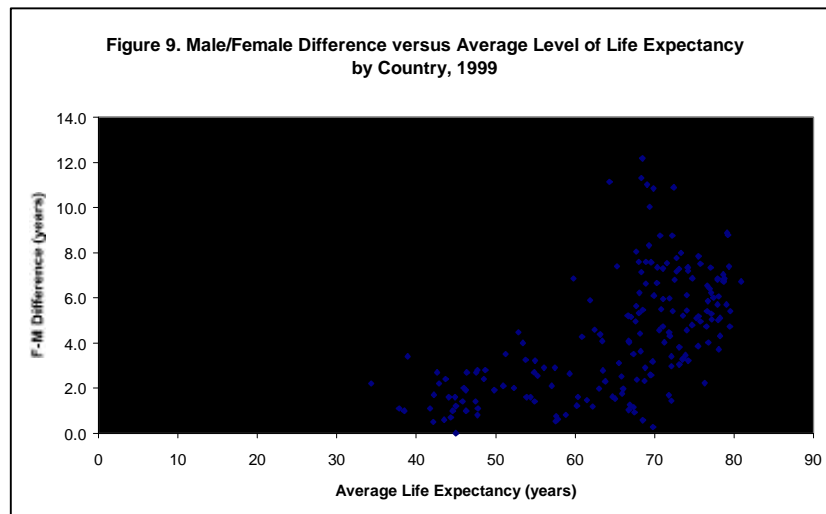
Among females, the second highest life expectancy was estimated for France and Monaco (83.6 years), followed by Switzerland (83.0 years), with a gap of almost one year to Australia (82.2). Twenty-three countries had an estimated life expectancy of 80 years or more for females in 1999, including Singapore (80.8) and Dominica (80.2). Female life expectancy exceeded 75.0 years in 62 countries, or about one-third of WHO's Member States.

Given the extraordinary impact of the HIV/AIDS epidemic in Sub-Saharan Africa, it is perhaps not surprising that the countries with the lowest life expectancy in 1999 are all from this Region. Indeed 37 of the 40 countries with the lowest life expectancy are in Sub-Saharan Africa. HIV/AIDS is a major cause of the poor performance of many Africa countries in terms of health gains over the last decade or so. Overall, life expectancy in Sub-Saharan Africa has declined by 3-5 years in the 1990s due to increasing mortality from HIV/AIDS, with the estimated loss reaching 15-20 years in countries such as Botswana, Zimbabwe and Zambia.

Large sex differences in life expectancy persist into more developed countries. At the beginning of the 20<sup>th</sup> century, female life expectancy exceeded that of males by 2 to 3 years, on average, at least in Europe, North America and Australia (25). In 1999, the female advantage had widened to 10 or more years in the Ukraine (10.0), Estonia (10.9), Lithuania (10.9), Latvia (11.0), Kazakstan (11.1) and the Russian Federation (11.3), and was highest of all countries in Belarus (12.2 years). Conversely, the differential was only half a year or less in countries such as Nepal, Uganda, Turkey, and Djibouti, with male life expectancy exceeding that of females in a handful of countries including Zimbabwe, The Maldives, Namibia and Botswana.

The relationship between average life expectancy and the female-male differential based on estimates for 1999 is shown in Figure 9. While the trend towards increasing sex differentials in mortality with general mortality decline is broadly apparent, there are very marked deviations evident from the Figure. In particular, above about a level of life expectancy of 65

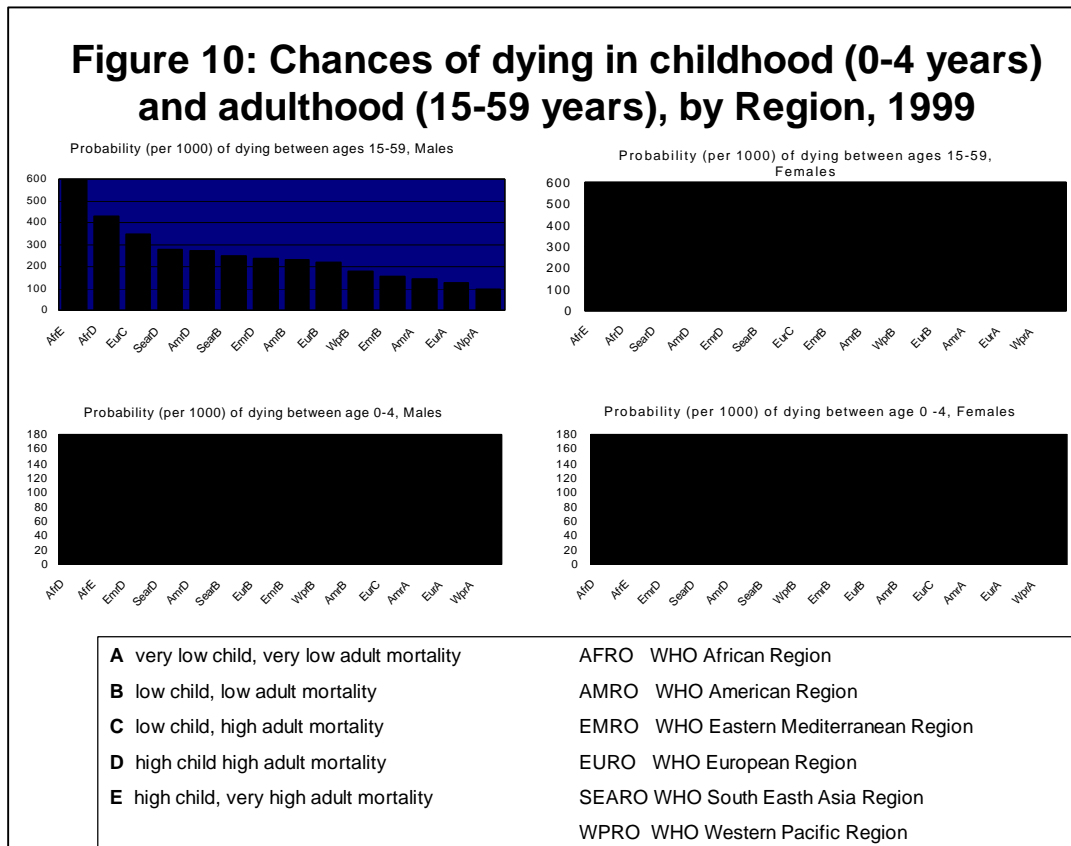
years, there is no clear relationship, with the female advantage in life expectancy ranging from virtually zero to more than 12 years at average levels of life expectancy around 70 years. All of the countries with extreme (10 or more years) sex differentials are countries of the former Soviet Union.



Differences in levels of child mortality remain vast. Of the 10.5 million deaths below age 5 estimated to have occurred in 1999, 99% of them were in developing regions (3). The probability of child death ( ${}_5q_0$ ) is typically less than 1% in industrialized countries classified into the A Regional Strata (and 0.5% in Japan), but rises to 300-350 per 1000 in Niger and Sierra Leone. Levels of child mortality well in excess of 10% (100 per 1000) are still common throughout Africa and in parts of Asia (Mongolia, Cambodia, Laos, Afghanistan, Bhutan, Myanmar, Bangladesh and Nepal).

However, perhaps the widest disparities in mortality occur at the adult ages 15-59 years. In some Southern African countries such as Zimbabwe, Zambia and Botswana, where HIV/AIDS is now a major public health problem, 70% or more of adults who survive to age 15 can be expected to die before age 60 on current mortality rates. In several others (e.g. Malawi, Namibia and Uganda) the risk exceeds 60%. The dramatic increase in  ${}_{45}q_{15}$  in South Africa is also noteworthy, with estimated levels of 601 per 1000 and 533 per 1000 for males and females respectively in 1999. At the other extreme,  ${}_{45}q_{15}$  levels of 90-100 per 1000 are common in most developed countries for men, with risks as low as half this again for women.

Useful summary indicators of prevailing mortality risks in a population are the probability of dying between birth and age 5, as an overall measure of health conditions among children, and the probability of dying between ages 15 and 60, as a measure of premature mortality among adults.

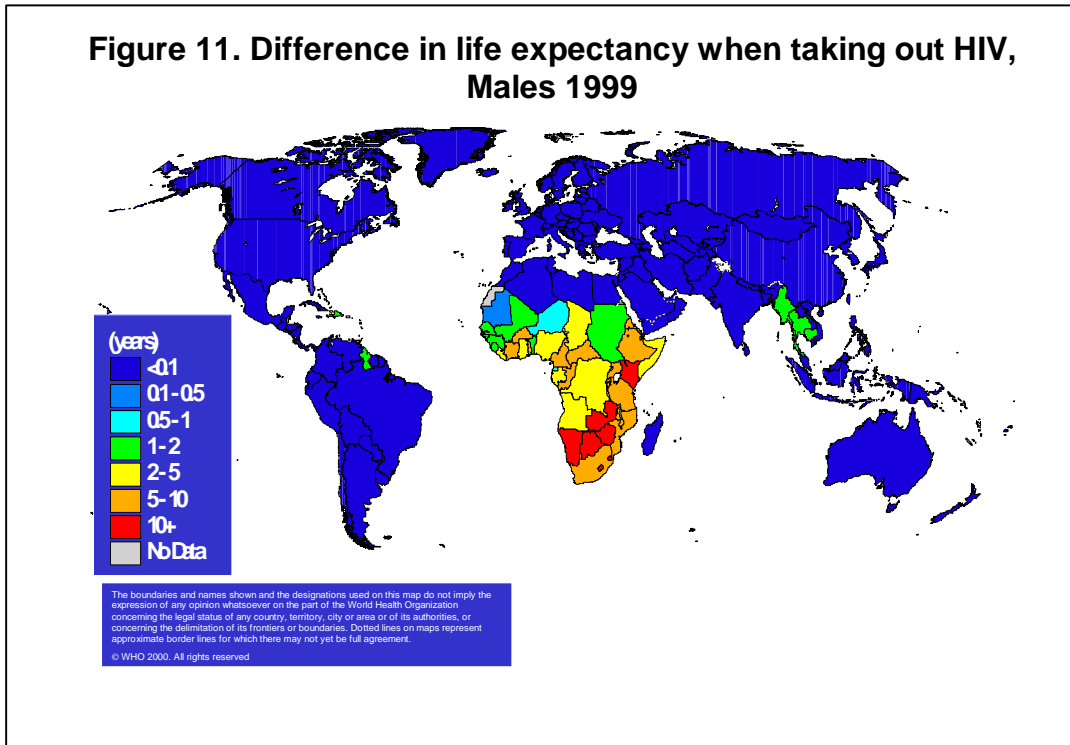


These risks of death are shown in Figure 10 for various regions of the world in 1999. The very great regional disparity in child mortality is clear with about 16% of new-borns in Africa not expected to live to age 5, compared with 4-6% in many other parts of the developing world and less than 1% in the industrialized world. This 16-fold difference is greater than the disparity in risks of adult death but the absolute size of the difference in risk of death among adults is much greater.

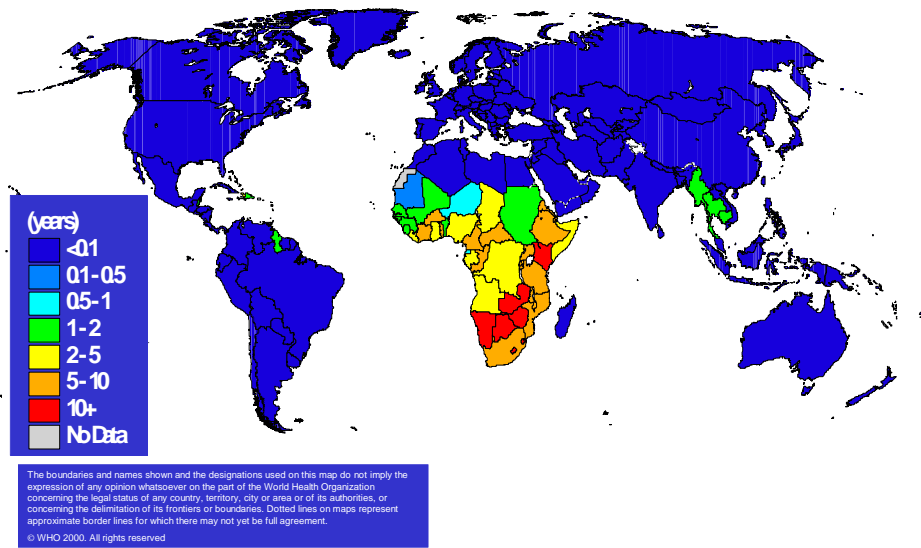
Thus in the parts of Africa where HIV/AIDS is very prevalent, 55-60% of adults on average who survive to age 15 will be dead before reaching age 60 on current (1999) rates, and in the remainder of Africa, the risk is still high (around 40%). The extraordinary risks of premature adult death among men in Eastern Europe is also clear from the Figure, (EUR C Region) with more than 1 in 3 who survive to age 15 in this Region likely to die before reaching age 60, at current risks compared with 10-12% in Western Europe, Japan and Australia.

More detail on the average levels of various life table parameters for the different WHO Regions and Mortality Strata is given in Annex Table 2 which presents regional life tables for 1999. Worldwide, average life expectancy in 1999 was estimated at 62.54 years for males and 66.45 years for females. In AFR E, the region most affected by HIV/AIDS,  $45q_{15}$  for males was, on average, 595 per 1000 or about six times the level for males in WPR A (97 per 1000). Female life expectancy at birth in WPR, the region with the lowest average mortality levels, was 83.4 years in 1999, almost double the level (44.5 years) for females in AFR E.

HIV/AIDS has had a devastating impact on life expectancy in sub-Saharan Africa and to a lesser extent in certain countries of South East Asia (Figures 11 and 12). On average, HIV/AIDS has reduced life expectancy for sub-Saharan Africans by 6 years in 1999. For males, the largest impact has been in Zimbabwe, Botswana and Namibia. In Zimbabwe, male life expectancy at birth would be 18.6 years higher if there were no deaths due to HIV/AIDS in 1999. For females, the largest impact has been in Botswana, where female life expectancy at birth would be 23.2 years higher if there were no deaths due to HIV/AIDS in 1999.



**Figure 12. Difference in life expectancy when taking out HIV, Females 1999**

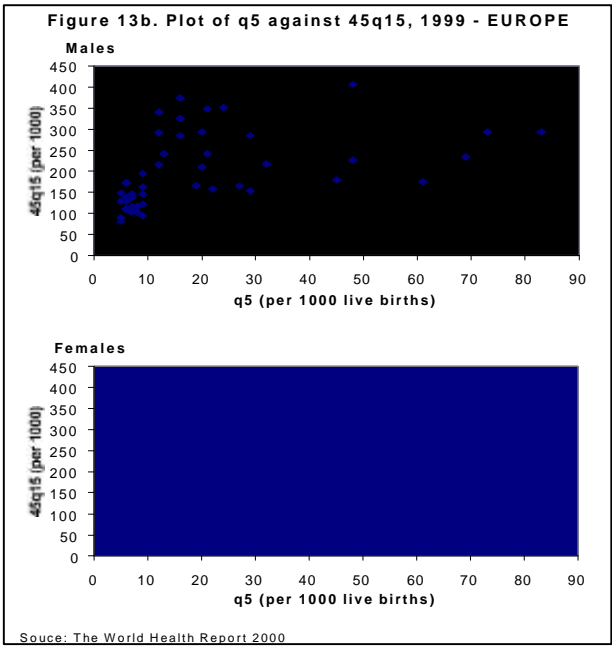
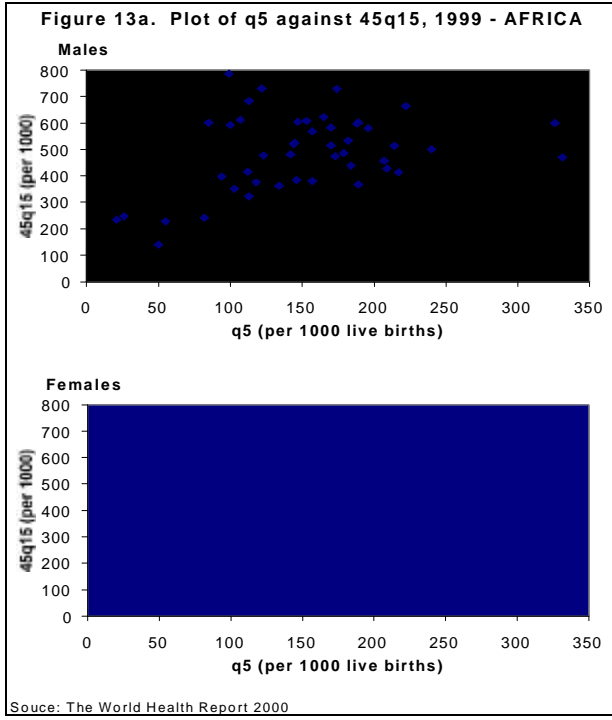


## V Discussion

The construction of life tables, as a basic input into more holistic measures of overall population health which incorporate states of ill-health, is a key element in the assessment of how well, or poorly, health systems are performing. This paper has outlined the methods, data and results from the first ever WHO attempt to produce life tables for all Member States to meet this needs. The methods outlined in this paper reflect the need for innovative approaches as traditional patterns of epidemiological changes are becoming less relevant in many countries.

With the advent of major new epidemics in the 1980s and 1990s, there have been important changes in the age pattern of mortality decline. The devastating toll of HIV/AIDS, particularly in Africa. But also the extraordinary rise (and then decline) in adult mortality in Eastern Europe over the last 15 years or so has meant that the traditional declining pattern of mortality at all ages with economic development will not always apply. The implication of these trends is that the utility of classical life table models to predict adult mortality from levels of child mortality is questionable. This increasing heterogeneity between levels of adult and child mortality is illustrated in Figure13 for the WHO EUR Region (all strata combined) where mortality levels are largely reliably measured, and the WHO AFR Region (strata D and E combined).





While there is undeniably considerable uncertainty in the levels of adult mortality, less so for children, the Figure suggests that the traditional relationship linking death rates at the two phases of life is no longer apparent. There has been continued progress in reducing child mortality, except in the handful of countries where HIV/AIDS prevalence is extremely high (2,3), whereas the impact on adults has been dramatic. The probability of adult death ( $_{45}q_{15}$ ) in countries like Zimbabwe has increased from around 15-20% in the late 1980s to 70% a decade later. Much of this has to be attributable to HIV/AIDS since there is no evidence of dramatic changes in other causes of adult death. HIV/AIDS was the cause of about 2.2 million deaths in Africa in 1999, making it by far the leading cause of death on the continent.

A key need for the World Health Organization is to estimate the annual distribution of deaths by age and sex in order to constrain estimates of causes of death, and burden of disease. Globally, some 56 million people are estimated to have died in 1999, 10.5 million below age five years. More males (29million) than females (27million) died, reflecting the systematically higher death rates for males at all ages in almost all countries. The tables also highlight the need for increased attention to preventing death in adulthood. Worldwide, deaths at ages 15-59 in 1999 amounted to an estimated 15.5 million, (9 million males, 6.5 million females), but with wide uncertainty. By any definition, these deaths (28% of the total over all ages) must be considered premature. While global public health policy in half of the 20<sup>th</sup> Century was dominated by efforts to prevent child death, with considerable success, this assessment of health conditions at the dawn of the 21<sup>st</sup> Century suggest that public policy needs to be increasingly concerned with both measuring and preventing adult mortality.

As with any model life table system, the estimates presented here are very dependent on the choice of the standard life tables used to derive them. The criteria for choosing the set of life tables which make up the regional standard should be guided by the need for current, reliable sets of mortality rates that are representative of the regional mortality situation. Clearly this will be largely subjective and future efforts will be devoted to exploring the effect of different inputs into regional standards. Furthermore, while we have tried to capture the effects of uncertainty around the input levels of child and adult mortality, it is not clear the extent to which the age-pattern of mortality within the two age groups (0-4, 15-59) affects the estimated survivorship curve. Other procedures for projecting the parameters of the Brass logit system in cases where the  $\alpha$ - $\beta$  grid is required might be worthwhile further investigating, including an analysis of covariates such as income and education, or comparing trajectories of alpha and beta with those of  ${}_{45}q_{15}$  and  ${}_5q_0$  to assess which shows a more systematic pattern over time.

Any global analysis will undoubtedly reveal areas where data are weak and measurement is difficult. This analysis has benefited greatly from the vast increase in data availability for child mortality, but equally has underscored just how poorly adult mortality is measured in developing countries. The incorporation of uncertainty intervals into the analysis provides some context for the interpretation of the findings, but does not imply that the point estimate is necessarily itself accurate. It is both disconcerting and remarkable how little is reliably known about adult mortality in the developing world and future revisions of these life tables will only become more reliable as information support for public health planning when adult mortality is more reliably measured.

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**Annex Table 1. Estimated selected life table parameters, WHO Member States, 1999**

Member State		PROBABILITY OF DYING (per 1000)						LIFE EXPECTANCY AT BIRTH (years)					
		Under age 5 years			Between ages 15 and 59 years								
		Males		Females		Males		Females		Males		Females	
	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	
1	Afghanistan	279	243 - 317	249	214 - 286	348	315 - 379	326	298 - 350	45.3	42.7 - 47.8	47.2	44.5 - 49.9
2	Albania	61	51 - 73	49	40 - 60	175	159 - 191	84	74 - 94	65.1	63.7 - 66.4	72.7	71.3 - 73.9
3	Algeria	50	40 - 63	48	38 - 58	139	122 - 157	118	103 - 134	68.2	66.7 - 69.7	68.8	67.3 - 70.2
4	Andorra	5	3 - 8	5	3 - 8	129	108 - 154	54	43 - 68	75.4	73.9 - 76.6	82.2	81.0 - 83.3
5	Angola	209	190 - 238	192	173 - 216	427	395 - 457	375	347 - 405	46.3	44.0 - 48.4	49.1	46.9 - 51.1
6	Antigua and Barbuda	22	19 - 24	20	18 - 23	173	161 - 185	100	96 - 104	71.4	70.3 - 72.5	76.8	76.0 - 77.8
7	Argentina	23	20 - 27	20	17 - 22	178	173 - 183	92	88 - 96	70.6	70.2 - 71.1	77.8	77.3 - 78.3
8	Armenia	19	13 - 26	16	11 - 23	166	147 - 187	81	67 - 97	72.3	71.0 - 73.4	77.1	75.7 - 78.4
9	Australia	7	6 - 7	5	5 - 6	94	91 - 98	53	49 - 58	76.8	76.5 - 77.1	82.2	81.6 - 82.8
10	Austria	6	5 - 7	6	5 - 7	131	120 - 143	66	62 - 69	74.4	73.7 - 75.0	80.4	80.0 - 80.7
11	Azerbaijan	32	26 - 40	25	20 - 31	217	198 - 238	101	89 - 115	67.8	66.4 - 69.0	75.3	74.1 - 76.4
12	Bahamas	24	20 - 28	21	18 - 25	239	223 - 256	129	118 - 141	67.0	66.0 - 67.9	73.6	72.7 - 74.5
13	Bahrain	23	19 - 25	20	18 - 23	137	125 - 147	99	92 - 107	70.6	69.9 - 71.5	73.6	72.9 - 74.3
14	Bangladesh	113	101 - 129	116	103 - 133	300	283 - 317	259	242 - 278	57.5	56.0 - 58.7	58.1	56.3 - 59.5
15	Barbados	11	11 - 12	10	7 - 14	169	142 - 200	91	77 - 104	72.7	70.4 - 75.2	77.8	76.3 - 79.5
16	Belarus	16	12 - 21	11	8 - 14	375	341 - 412	126	110 - 142	62.4	60.7 - 63.9	74.6	73.5 - 75.5
17	Belgium	9	8 - 9	6	5 - 7	121	117 - 126	62	53 - 71	74.5	74.1 - 74.9	81.3	80.9 - 81.7
18	Belize	30	26 - 35	25	21 - 30	200	186 - 214	119	108 - 132	69.6	68.6 - 70.6	75.0	73.8 - 75.9
19	Benin	157	141 - 174	148	134 - 165	381	350 - 409	338	310 - 365	51.3	49.5 - 53.4	53.3	51.3 - 55.3
20	Bhutan	113	101 - 128	114	102 - 130	258	243 - 269	214	202 - 228	59.6	58.5 - 60.8	60.8	59.3 - 62.1
21	Bolivia	91	81 - 101	81	75 - 88	281	264 - 297	245	231 - 258	60.7	59.6 - 62.0	62.2	61.3 - 63.2
22	Bosnia and Herzegovina	22	19 - 25	17	15 - 20	158	146 - 170	99	91 - 109	71.2	70.3 - 72.0	75.0	74.1 - 75.8
23	Botswana	99	92 - 106	97	92 - 102	786	767 - 804	740	718 - 761	39.5	38.5 - 40.5	39.3	38.2 - 40.4
24	Brazil	47	38 - 57	42	33 - 51	295	272 - 318	157	142 - 174	63.7	62.1 - 65.1	71.7	70.3 - 73.0
25	Brunei Darussalam	12	9 - 14	9	7 - 11	153	139 - 167	94	84 - 105	74.5	73.7 - 75.2	79.8	79.1 - 80.4
26	Bulgaria	21	19 - 23	16	15 - 18	242	233 - 253	98	94 - 102	67.4	66.9 - 68.0	74.7	74.4 - 75.1
27	Burkina Faso	182	159 - 206	171	151 - 197	532	493 - 573	486	448 - 528	44.1	41.8 - 46.4	45.7	43.2 - 48.1
28	Burundi	170	148 - 197	166	144 - 193	582	509 - 653	546	473 - 620	43.2	39.8 - 46.6	43.8	40.0 - 47.5
29	Cambodia	138	127 - 149	129	113 - 148	394	377 - 414	323	306 - 343	52.2	50.9 - 53.3	55.4	53.6 - 56.9
30	Cameroon	123	109 - 136	120	106 - 132	477	439 - 520	419	384 - 462	49.9	47.8 - 52.1	52.0	49.7 - 54.2
31	Canada	6	5 - 7	5	4 - 6	104	98 - 109	59	55 - 64	76.2	75.8 - 76.5	81.9	81.5 - 82.3
32	Cape Verde	55	50 - 60	50	46 - 54	228	205 - 248	126	110 - 142	64.2	62.9 - 65.8	71.8	70.2 - 73.6
33	Central African Republic	153	138 - 166	143	129 - 155	608	572 - 645	555	520 - 593	43.3	41.4 - 45.2	44.9	42.8 - 46.9
34	Chad	184	159 - 213	165	143 - 192	439	406 - 472	386	356 - 416	47.3	44.8 - 49.6	50.1	47.6 - 52.4
35	Chile	11	9 - 13	8	7 - 10	132	119 - 146	66	61 - 70	73.4	71.9 - 74.9	79.9	79.2 - 80.7
36	China	35	29 - 43	40	33 - 48	170	158 - 182	125	115 - 135	68.1	67.3 - 68.9	71.3	70.4 - 72.2
37	Colombia	31	28 - 34	26	24 - 28	221	207 - 235	128	120 - 136	68.1	67.2 - 69.0	74.1	73.3 - 74.9
38	Comoros	113	100 - 124	92	83 - 103	323	293 - 352	295	269 - 321	56.0	54.3 - 57.9	58.1	56.5 - 59.8
39	Congo	112	99 - 127	102	89 - 119	415	378 - 453	378	342 - 413	53.6	51.5 - 55.8	55.2	53.0 - 57.4
40	Cook Islands	29	27 - 32	24	23 - 26	154	142 - 166	101	94 - 107	69.2	68.3 - 70.2	73.3	72.4 - 74.2
41	Costa Rica	13	9 - 17	14	11 - 19	121	106 - 137	79	68 - 90	74.2	73.1 - 75.1	78.9	77.8 - 79.8
42	Côte d'Ivoire	145	132 - 161	124	114 - 139	524	495 - 553	497	467 - 525	47.2	45.5 - 49.0	48.3	46.7 - 50.2
43	Croatia	9	7 - 11	7	5 - 8	194	180 - 209	76	67 - 84	69.3	68.7 - 69.9	77.3	76.8 - 77.8
44	Cuba	10	9 - 11	8	6 - 10	143	132 - 155	99	86 - 114	73.5	72.4 - 74.7	77.4	76.2 - 78.5
45	Cyprus	9	6 - 12	8	6 - 11	102	89 - 117	57	48 - 67	74.8	73.8 - 75.7	78.8	77.9 - 79.5
46	Czech Republic	6	5 - 8	5	4 - 6	173	160 - 188	73	65 - 82	71.3	70.7 - 71.9	78.2	77.6 - 78.7
47	Democratic People's Republic of Korea	100	91 - 109	99	91 - 109	305	291 - 319	229	214 - 244	58.0	57.0 - 58.9	60.6	59.5 - 61.8
48	Democratic Republic of the Congo	170	155 - 185	153	141 - 167	515	483 - 543	482	449 - 509	45.1	43.5 - 46.7	46.5	45.0 - 48.3
49	Denmark	7	5 - 9	6	5 - 6	138	125 - 152	89	82 - 97	72.9	72.2 - 73.7	78.1	77.6 - 78.7
50	Djibouti	169	154 - 202	162	147 - 190	556	513 - 596	524	483 - 563	45.0	42.5 - 47.0	45.0	42.6 - 47.2
51	Dominica	9	8 - 10	7	6 - 8	123	115 - 131	55	54 - 57	74.0	73.0 - 75.1	80.2	79.4 - 81.2
52	Dominican Republic	52	48 - 58	46	42 - 51	177	164 - 189	147	141 - 150	71.4	70.2 - 72.6	72.8	72.5 - 73.3
53	Ecuador	40	36 - 44	33	30 - 36	200	186 - 214	144	134 - 153	67.4	66.4 - 68.3	70.3	69.5 - 71.1
54	Egypt	74	66 - 84	72	63 - 81	187	176 - 202	148	133 - 164	64.2	63.1 - 65.1	65.8	64.4 - 67.2
55	El Salvador	42	38 - 46	35	31 - 40	238	224 - 252	144	133 - 154	66.9	65.9 - 67.8	73.0	72.0 - 73.9
56	Equatorial Guinea	146	129 - 164	131	115 - 145	384	350 - 413	309	281 - 334	51.4	49.4 - 53.5	55.4	53.6 - 57.4
57	Eritrea	144	133 - 159	134	121 - 146	520	481 - 556	514	477 - 548	46.6	44.8 - 48.5	46.5	44.7 - 48.3
58	Estonia	12	8 - 15	11	7 - 16	341	308 - 377	120	100 - 143	64.4	62.8 - 65.9	75.3	73.9 - 76.5
59	Ethiopia	188	171 - 207	177	162 - 194	596	556 - 641	545	505 - 591	41.4	39.3 - 43.5	43.1	40.8 - 45.3
60	Fiji	25	14 - 42	19	11 - 31	247	194 - 307	141	106 - 186	64.0	61.0 - 66.4	69.2	66.6 - 71.3
61	Finland	5	4 - 5	4	4 - 5	148	145 - 150	59	55 - 64	73.4	72.9 - 73.8	80.7	80.1 - 81.4
62	France	7	6 - 8	5	4 - 6	146	141 - 151	59	56 - 62	74.9	74.4 - 75.3	83.6	83.1 - 84.1

**Annex Table 1. Estimated selected life table parameters, WHO Member States, 1999**

Member State		PROBABILITY OF DYING (per 1000)						LIFE EXPECTANCY AT BIRTH (years)					
		Under age 5 years			Between ages 15 and 59 years			Under age 5 years			Between ages 15 and 59 years		
		Males		Females		Males		Females		Males		Females	
	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	
63	Gabon	94	81 - 109	85	73 - 99	397	366 - 431	336	306 - 368	54.6	52.5 - 56.6	57.5	55.4 - 59.6
64	Gambia	103	94 - 114	93	85 - 102	351	321 - 378	295	270 - 319	56.0	54.3 - 57.8	58.9	57.4 - 60.6
65	Georgia	20	14 - 27	16	11 - 22	209	184 - 237	85	70 - 102	69.4	67.8 - 70.9	76.7	75.3 - 77.9
66	Germany	6	6 - 7	5	5 - 5	136	128 - 144	67	64 - 70	73.7	73.3 - 74.2	80.1	79.9 - 80.4
67	Ghana	118	102 - 135	109	95 - 126	376	339 - 413	343	309 - 378	54.2	51.8 - 56.4	55.6	53.2 - 57.7
68	Greece	8	7 - 9	7	6 - 7	117	113 - 120	50	47 - 52	75.5	75.3 - 75.7	80.5	80.1 - 80.9
69	Grenada	27	24 - 30	22	20 - 25	206	192 - 220	109	105 - 113	69.1	68.1 - 70.2	75.9	75.1 - 76.8
70	Guatemala	58	53 - 63	44	40 - 48	326	307 - 343	223	210 - 237	60.2	59.2 - 61.1	64.7	63.9 - 65.6
71	Guinea	217	201 - 230	193	180 - 208	413	379 - 443	369	338 - 395	46.2	44.4 - 48.1	48.9	47.2 - 50.8
72	Guinea-Bissau	207	190 - 236	196	175 - 215	457	423 - 489	411	380 - 440	45.0	42.7 - 47.0	47.0	45.0 - 49.0
73	Guyana	75	66 - 84	58	51 - 65	242	227 - 256	153	142 - 164	65.6	64.3 - 66.9	72.2	71.1 - 73.3
74	Haiti	120	110 - 135	111	101 - 126	481	459 - 503	360	341 - 382	50.6	49.1 - 51.7	55.1	53.4 - 56.3
75	Honduras	42	38 - 46	37	33 - 42	219	205 - 233	168	157 - 180	68.2	67.2 - 69.2	70.8	69.8 - 71.8
76	Hungary	12	9 - 15	10	9 - 12	292	263 - 325	127	123 - 131	66.3	64.9 - 67.6	75.1	74.5 - 75.7
77	Iceland	5	4 - 7	3	2 - 4	81	71 - 91	54	45 - 61	76.1	74.8 - 77.4	80.4	78.9 - 81.9
78	India	97	84 - 110	104	91 - 118	275	261 - 289	217	205 - 229	59.6	58.4 - 60.6	61.2	59.9 - 62.3
79	Indonesia	63	53 - 70	53	49 - 58	240	224 - 257	197	183 - 210	66.6	65.3 - 67.9	69.0	67.9 - 70.1
80	Iran, Islamic Republic of	48	41 - 55	42	36 - 48	160	143 - 178	129	120 - 139	66.8	65.5 - 68.0	67.9	67.1 - 68.6
81	Iraq	67	60 - 79	54	50 - 61	243	220 - 259	208	190 - 220	61.6	60.4 - 62.8	62.8	62.1 - 63.7
82	Ireland	7	5 - 9	6	4 - 8	116	101 - 133	67	56 - 78	73.3	72.4 - 74.2	78.3	77.4 - 79.0
83	Israel	8	7 - 8	7	7 - 8	101	97 - 105	59	52 - 67	76.2	75.6 - 76.8	79.9	79.5 - 80.4
84	Italy	6	6 - 7	5	5 - 6	109	102 - 116	51	46 - 55	75.4	75.1 - 75.6	82.1	81.9 - 82.3
85	Jamaica	29	25 - 32	25	21 - 30	135	123 - 146	99	90 - 110	75.2	74.2 - 76.4	77.4	76.4 - 78.4
86	Japan	5	5 - 6	5	4 - 5	95	92 - 99	48	46 - 49	77.6	77.3 - 77.8	84.3	83.9 - 84.7
87	Jordan	29	24 - 36	25	21 - 30	172	160 - 191	132	125 - 148	66.3	65.1 - 66.9	67.5	66.5 - 68.0
88	Kazakhstan	48	39 - 58	36	29 - 44	407	389 - 424	177	161 - 193	58.8	57.6 - 59.9	69.9	68.7 - 71.0
89	Kenya	100	89 - 112	99	87 - 110	591	545 - 634	546	500 - 592	47.3	45.1 - 49.5	48.1	45.6 - 50.5
90	Kiribati	62	57 - 67	58	54 - 62	276	257 - 295	196	184 - 208	61.4	60.7 - 62.1	65.5	64.8 - 66.2
91	Kuwait	19	15 - 23	17	14 - 21	119	106 - 134	83	74 - 94	71.9	70.9 - 72.8	75.2	74.2 - 76.1
92	Kyrgyzstan	73	61 - 87	68	56 - 81	293	271 - 316	152	139 - 168	61.6	60.0 - 63.0	69.0	67.4 - 70.4
93	Lao People's Democratic Republic	143	127 - 163	126	112 - 145	341	321 - 361	302	284 - 323	54.0	52.2 - 55.6	56.6	54.7 - 58.1
94	Latvia	21	14 - 32	16	11 - 22	349	307 - 393	131	111 - 155	63.6	61.3 - 65.5	74.6	73.0 - 75.9
95	Lebanon	31	24 - 37	25	19 - 32	172	150 - 195	136	116 - 160	66.2	65.0 - 67.5	67.3	65.8 - 68.5
96	Lesotho	147	130 - 164	134	119 - 151	604	549 - 653	565	510 - 615	44.1	41.6 - 46.7	45.1	42.4 - 47.9
97	Liberia	214	195 - 240	196	176 - 218	513	480 - 544	461	433 - 491	42.5	40.4 - 44.5	44.9	42.9 - 46.8
98	Libyan Arab Jamahiriya	39	32 - 49	35	27 - 43	192	169 - 215	141	121 - 161	65.0	63.7 - 66.3	67.0	65.7 - 68.4
99	Lithuania	16	12 - 21	9	7 - 12	284	254 - 317	95	83 - 109	67.0	65.2 - 68.6	77.9	76.9 - 78.8
100	Luxembourg	6	5 - 9	6	4 - 9	139	126 - 151	69	66 - 72	74.5	73.7 - 75.4	81.4	80.4 - 82.5
101	Madagascar	179	163 - 198	157	141 - 172	486	457 - 515	440	410 - 467	45.0	43.2 - 46.7	47.7	45.9 - 49.4
102	Malawi	222	207 - 248	215	196 - 233	664	631 - 689	618	587 - 643	37.3	35.4 - 39.0	38.4	36.7 - 40.1
103	Malaysia	15	13 - 17	13	11 - 15	172	159 - 188	125	115 - 137	67.6	66.8 - 68.3	69.9	69.2 - 70.5
104	Maldives	90	81 - 102	86	76 - 98	214	198 - 228	208	194 - 223	63.3	62.1 - 64.5	62.6	61.3 - 63.8
105	Mali	240	222 - 260	229	214 - 249	500	468 - 529	432	401 - 459	41.3	39.5 - 43.2	44.0	42.2 - 45.8
106	Malta	9	7 - 13	6	4 - 8	94	81 - 108	45	38 - 54	75.7	74.7 - 76.5	80.8	80.0 - 81.5
107	Marshall Islands	60	56 - 66	51	48 - 55	227	209 - 245	175	163 - 186	64.0	63.2 - 64.9	67.1	66.4 - 67.9
108	Mauritania	189	174 - 204	168	157 - 180	367	335 - 396	312	284 - 336	49.5	47.8 - 51.6	53.0	51.3 - 54.8
109	Mauritius	26	17 - 39	15	10 - 21	247	211 - 284	116	99 - 134	66.7	64.7 - 68.6	74.1	72.8 - 75.1
110	Mexico	26	19 - 36	23	18 - 28	194	176 - 214	109	102 - 116	71.0	69.7 - 72.2	77.1	76.4 - 77.9
111	Micronesia, Federated States of	44	40 - 48	31	29 - 34	194	179 - 209	137	128 - 145	66.4	65.6 - 67.4	70.1	69.3 - 70.9
112	Monaco	9	5 - 15	7	4 - 10	146	118 - 178	59	46 - 73	74.7	72.8 - 76.4	83.6	82.2 - 84.7
113	Mongolia	123	103 - 144	104	88 - 123	263	245 - 278	181	169 - 193	58.9	57.2 - 60.7	64.8	63.2 - 66.3
114	Morocco	69	63 - 76	61	54 - 67	177	161 - 197	139	127 - 153	65.0	63.7 - 66.2	66.8	65.6 - 67.9
115	Mozambique	196	170 - 225	189	164 - 218	580	523 - 633	514	454 - 571	41.8	39.1 - 44.7	44.0	41.1 - 47.4
116	Myanmar	142	131 - 157	126	112 - 142	253	235 - 268	231	221 - 243	58.4	57.0 - 59.8	59.2	57.8 - 60.3
117	Namibia	113	101 - 126	112	100 - 124	682	614 - 741	649	578 - 711	43.3	40.3 - 46.3	43.0	39.7 - 46.5
118	Nauru	19	18 - 21	15	14 - 17	511	493 - 528	260	250 - 270	56.4	56.2 - 56.6	63.3	62.9 - 63.6
119	Nepal	119	105 - 134	107	95 - 119	297	276 - 317	274	256 - 291	57.3	55.8 - 58.8	57.8	56.5 - 59.3
120	Netherlands	7	7 - 7	6	5 - 6	103	97 - 109	66	62 - 70	75.0	74.9 - 75.2	81.1	80.5 - 81.7
121	New Zealand	9	8 - 10	7	6 - 8	125	116 - 133	74	70 - 79	73.9	73.5 - 74.4	79.3	78.8 - 79.9
122	Nicaragua	50	46 - 54	44	40 - 48	239	224 - 254	163	152 - 173	64.8	63.8 - 65.7	68.8	67.9 - 69.7
123	Niger	331	310 - 355	339	318 - 363	470	436 - 502	362	329 - 393	37.2	35.3 - 39.1	40.6	38.6 - 42.7
124	Nigeria	173	152 - 199	170	148 - 196	473	435 - 513	429	393 - 468	46.8	44.4 - 49.1	48.2	45.6 - 50.6
125	Niue	33	19 - 57	30	17 - 53	185	144 - 234	149	113 - 193	68.3	64.8 - 71.1	70.9	67.4 - 73.5
126	Norway	6	5 - 7	5	4 - 6	109	99 - 115	60	57 - 64	75.1	74.8 - 75.4	82.1	81.6 - 82.6

**Annex Table 1. Estimated selected life table parameters, WHO Member States, 1999**

Member State		PROBABILITY OF DYING (per 1000)						LIFE EXPECTANCY AT BIRTH (years)					
		Under age 5 years			Between ages 15 and 59 years			Under age 5 years			Between ages 15 and 59 years		
		Males	Females		Males	Females		Males	Females		Males	Females	
	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	
127	Oman	18	16 - 20	18	16 - 19	135	122 - 150	94	90 - 100	70.4	69.4 - 71.5	73.8	73.2 - 74.2
128	Pakistan	100	90 - 109	98	92 - 111	194	173 - 216	147	131 - 161	62.6	61.1 - 64.2	64.9	62.1 - 66.1
129	Palau	23	21 - 25	16	15 - 17	236	222 - 251	132	125 - 139	64.5	63.9 - 65.1	69.7	69.1 - 70.3
130	Panama	35	30 - 40	32	28 - 36	163	152 - 175	116	107 - 125	72.6	71.6 - 73.6	75.8	74.9 - 76.8
131	Papua New Guinea	129	114 - 139	106	92 - 123	377	358 - 395	325	306 - 345	53.4	52.2 - 54.7	56.6	54.9 - 58.0
132	Paraguay	37	33 - 42	33	28 - 37	200	191 - 209	132	122 - 142	69.6	68.9 - 70.3	74.1	73.1 - 75.0
133	Peru	52	48 - 56	45	42 - 48	224	210 - 239	159	149 - 168	65.6	64.6 - 66.6	69.1	68.3 - 69.9
134	Philippines	48	44 - 52	41	36 - 46	232	218 - 246	147	137 - 158	64.1	63.3 - 64.9	69.3	68.5 - 70.2
135	Poland	13	13 - 14	11	10 - 11	242	219 - 268	88	83 - 92	67.9	66.5 - 69.1	76.6	76.0 - 77.2
136	Portugal	9	7 - 10	7	5 - 8	162	152 - 171	64	60 - 68	72.0	71.3 - 72.7	79.5	79.1 - 79.9
137	Qatar	19	16 - 22	19	17 - 21	122	110 - 128	89	85 - 96	71.6	71.1 - 72.7	74.6	74.0 - 75.2
138	Republic of Korea	12	8 - 16	10	8 - 13	215	181 - 253	92	76 - 111	69.2	67.4 - 70.7	76.3	75.1 - 77.4
139	Republic of Moldova	20	16 - 25	17	13 - 21	293	274 - 313	146	132 - 162	64.8	63.8 - 65.7	71.9	71.0 - 72.7
140	Romania	29	27 - 32	22	20 - 24	285	248 - 325	119	114 - 125	65.1	64.5 - 65.7	73.5	72.9 - 74.0
141	Russian Federation	24	19 - 30	19	14 - 24	352	326 - 378	131	116 - 147	62.7	61.3 - 63.9	74.0	72.8 - 75.0
142	Rwanda	189	172 - 206	163	149 - 178	602	526 - 662	581	506 - 642	41.2	38.6 - 44.5	42.3	39.4 - 45.7
143	Saint Kitts and Nevis	34	30 - 38	28	24 - 32	272	255 - 288	160	155 - 164	65.0	64.2 - 65.9	71.2	70.7 - 71.8
144	Saint Lucia	27	24 - 31	19	16 - 21	209	195 - 223	114	111 - 117	68.9	67.9 - 70.0	74.9	74.2 - 75.6
145	Saint Vincent and the Grenadines	28	25 - 31	26	22 - 29	170	158 - 183	118	114 - 122	71.9	70.7 - 73.2	75.2	74.4 - 76.0
146	Samoa	28	25 - 30	25	23 - 27	217	203 - 231	126	119 - 134	65.4	64.7 - 66.1	70.7	70.0 - 71.5
147	San Marino	7	4 - 12	6	4 - 9	109	86 - 136	51	40 - 64	75.3	73.6 - 76.8	82.0	80.8 - 83.1
148	Sao Tome and Principe	82	79 - 85	51	49 - 52	241	208 - 277	212	186 - 240	62.1	59.9 - 64.5	64.9	63.1 - 66.7
149	Saudi Arabia	21	19 - 23	20	18 - 23	131	124 - 136	107	99 - 116	71.0	70.6 - 71.6	72.6	71.9 - 73.4
150	Senegal	134	121 - 149	126	114 - 140	362	334 - 390	308	283 - 334	53.5	51.6 - 55.5	56.2	54.3 - 58.1
151	Seychelles	21	21 - 22	12	12 - 12	234	205 - 266	131	114 - 149	64.9	63.3 - 66.4	70.5	69.2 - 71.8
152	Sierra Leone	326	298 - 367	298	271 - 336	599	569 - 627	557	527 - 584	33.2	30.7 - 35.2	35.4	33.0 - 37.5
153	Singapore	4	3 - 6	3	2 - 4	126	110 - 144	67	58 - 77	75.1	74.0 - 76.0	80.8	79.9 - 81.5
154	Slovakia	12	10 - 14	10	8 - 12	216	202 - 231	84	76 - 94	68.9	68.2 - 69.5	76.7	76.0 - 77.2
155	Slovenia	6	4 - 7	4	3 - 5	171	157 - 185	66	59 - 74	71.6	71.0 - 72.2	79.5	78.9 - 80.0
156	Solomon Islands	49	45 - 53	47	43 - 50	274	256 - 292	227	215 - 239	62.0	61.4 - 62.7	64.0	63.5 - 64.5
157	Somalia	206	174 - 245	196	173 - 235	522	482 - 556	487	451 - 522	44.0	41.4 - 46.5	44.7	41.8 - 46.9
158	South Africa	85	76 - 92	67	60 - 74	601	562 - 641	533	493 - 575	47.3	45.4 - 49.0	49.7	47.7 - 51.8
159	Spain	6	6 - 7	6	5 - 8	129	117 - 144	54	48 - 61	75.3	74.0 - 76.4	82.1	81.5 - 82.7
160	Sri Lanka	25	21 - 29	19	16 - 22	269	254 - 280	141	131 - 152	65.8	65.2 - 66.7	73.4	72.5 - 74.2
161	Sudan	117	97 - 147	103	86 - 127	396	364 - 427	350	319 - 380	53.1	50.7 - 55.1	54.7	52.4 - 56.6
162	Suriname	34	30 - 39	27	23 - 32	220	206 - 235	134	123 - 145	68.1	67.1 - 69.2	73.6	72.6 - 74.5
163	Swaziland	107	94 - 119	97	85 - 110	612	556 - 660	568	510 - 618	45.8	43.4 - 48.5	46.8	44.0 - 49.8
164	Sweden	5	3 - 6	4	4 - 5	89	79 - 99	60	56 - 63	77.1	76.6 - 77.7	81.9	81.3 - 82.4
165	Switzerland	6	4 - 9	6	4 - 8	111	96 - 126	58	49 - 69	75.6	74.6 - 76.6	83.0	82.0 - 83.9
166	Syrian Arab Republic	44	35 - 55	40	32 - 49	198	176 - 222	140	121 - 160	64.6	63.1 - 65.9	67.1	65.6 - 68.5
167	Tajikistan	69	61 - 79	59	51 - 69	234	218 - 251	149	137 - 162	65.1	63.8 - 66.4	70.1	68.7 - 71.3
168	Thailand	40	35 - 45	27	24 - 30	261	244 - 277	181	171 - 189	66.0	64.9 - 67.0	70.4	69.8 - 71.1
169	The former Yugoslav Republic of Macedonia	27	21 - 34	23	18 - 29	165	149 - 184	95	83 - 108	69.8	68.6 - 70.8	74.1	73.0 - 75.0
170	Togo	142	124 - 161	122	108 - 138	480	436 - 517	441	399 - 478	48.9	46.7 - 51.3	50.8	48.6 - 53.3
171	Tonga	29	26 - 31	23	21 - 25	167	155 - 180	103	97 - 110	68.3	67.4 - 69.2	72.8	72.0 - 73.7
172	Trinidad and Tobago	10	7 - 13	7	5 - 10	217	196 - 240	140	123 - 159	68.7	67.6 - 69.6	73.4	72.4 - 74.3
173	Tunisia	36	31 - 41	31	26 - 35	158	146 - 169	128	114 - 141	67.0	66.3 - 67.8	67.9	67.0 - 69.0
174	Turkey	45	42 - 50	42	39 - 46	180	168 - 191	157	148 - 167	69.7	68.8 - 70.6	69.9	69.1 - 70.8
175	Turkmenistan	83	62 - 108	77	58 - 102	293	257 - 330	173	148 - 201	61.0	58.3 - 63.3	65.3	62.7 - 67.6
176	Tuvalu	45	41 - 49	32	30 - 34	238	221 - 254	204	194 - 214	63.9	63.2 - 64.7	65.5	65.0 - 66.1
177	Uganda	165	151 - 180	153	142 - 167	622	590 - 649	592	559 - 618	41.9	40.4 - 43.5	42.4	40.9 - 44.2
178	Ukraine	16	14 - 20	12	10 - 15	326	311 - 341	121	110 - 132	64.4	63.6 - 65.1	74.4	73.7 - 75.0
179	United Arab Emirates	19	16 - 23	16	15 - 18	117	106 - 127	80	74 - 86	72.2	71.4 - 73.0	75.6	74.9 - 76.4
180	United Kingdom	7	7 - 7	6	5 - 6	111	108 - 113	67	66 - 69	74.7	74.4 - 75.0	79.7	79.4 - 80.0
181	United Republic of Tanzania	157	143 - 170	148	134 - 161	568	542 - 597	525	500 - 553	44.4	42.9 - 46.0	45.6	44.0 - 47.2
182	United States of America	8	8 - 8	8	7 - 8	148	139 - 157	85	83 - 87	73.8	73.0 - 74.6	79.7	79.4 - 80.0
183	Uruguay	20	18 - 23	16	13 - 19	184	171 - 194	88	80 - 95	70.5	69.8 - 71.4	77.8	77.2 - 78.6
184	Uzbekistan	48	38 - 60	38	30 - 49	227	206 - 247	137	121 - 155	65.8	64.2 - 67.1	71.2	69.8 - 72.5
185	Vanuatu	64	59 - 70	57	53 - 61	333	313 - 353	239	226 - 252	58.7	58.2 - 59.3	63.0	62.5 - 63.6
186	Venezuela, Bolivarian Republic of	22	21 - 24	23	19 - 26	163	151 - 176	94	84 - 105	70.9	70.0 - 71.9	76.2	74.9 - 77.3
187	Viet Nam	39	36 - 44	31	28 - 35	225	211 - 239	153	142 - 163	64.7	63.9 - 65.5	68.8	68.1 - 69.6
188	Yemen	113	101 - 137	108	92 - 127	288	259 - 314	257	234 - 281	57.3	55.0 - 58.9	58.0	56.1 - 59.7



**Annex Table 1. Estimated selected life table parameters, WHO Member States, 1999**

PROBABILITY OF DYING (per 1000)

LIFE EXPECTANCY AT BIRTH  
(years)

Under age 5 years

Between ages 15 and 59 years

Member State	Males		Females		Males		Females		Males		Females	
	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval	1999	Uncertainty interval
189 Yugoslavia	29	25 - 32	22	20 - 26	153	143 - 165	90	83 - 99	71.8	70.9 - 72.6	76.4	75.4 - 77.1
190 Zambia	174	160 - 190	163	149 - 178	729	690 - 765	682	640 - 721	38.0	36.0 - 39.9	39.0	36.7 - 41.2
191 Zimbabwe	122	108 - 134	113	101 - 125	730	683 - 773	710	663 - 754	40.9	38.6 - 43.2	40.0	37.5 - 42.5

**Annex Table 2. Regional life tables for WHO regions and mortality strata, 1999**

**WHO LIFE TABLE FOR 1999: AFR D**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1080	0.0984	100,000	48.54	0.1048	0.0958	100,000	50.38
1	0.0203	0.0775	90,158	52.83	0.0189	0.0724	90,424	54.71
5	0.0055	0.0272	83,169	53.13	0.0054	0.0265	83,878	54.85
10	0.0035	0.0175	80,909	49.55	0.0034	0.0171	81,655	51.28
15	0.0047	0.0231	79,496	45.38	0.0046	0.0226	80,259	47.13
20	0.0067	0.0327	77,657	41.40	0.0069	0.0341	78,443	43.16
25	0.0093	0.0454	75,115	37.72	0.0099	0.0481	75,765	39.60
30	0.0112	0.0545	71,705	34.39	0.0112	0.0546	72,117	36.48
35	0.0124	0.0601	67,796	31.23	0.0111	0.0540	68,181	33.44
40	0.0136	0.0660	63,720	28.07	0.0112	0.0544	64,498	30.20
45	0.0148	0.0713	59,517	24.87	0.0111	0.0541	60,986	26.80
50	0.0175	0.0838	55,274	21.59	0.0131	0.0633	57,687	23.19
55	0.0217	0.1029	50,643	18.34	0.0170	0.0814	54,038	19.59
60	0.0295	0.1375	45,433	15.15	0.0248	0.1168	49,641	16.10
65	0.0438	0.1974	39,187	12.17	0.0377	0.1724	43,845	12.90
70	0.0676	0.2891	31,450	9.55	0.0605	0.2629	36,288	10.06
75	0.0995	0.3985	22,357	7.42	0.0925	0.3756	26,748	7.76
80	0.1495	0.5442	13,448	5.67	0.1415	0.5225	16,702	5.92
85+	0.2242	1.0000	6,129	4.46	0.2145	1.0000	7,975	4.66

**WHO LIFE TABLE FOR 1999: AFR E**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0907	0.0838	100,000	43.36	0.0835	0.0776	100,000	44.55
1	0.0209	0.0795	91,618	46.32	0.0194	0.0741	92,236	47.29
5	0.0056	0.0277	84,333	46.18	0.0054	0.0268	85,397	46.95
10	0.0037	0.0181	81,993	42.42	0.0035	0.0176	83,109	43.18
15	0.0053	0.0263	80,509	38.16	0.0061	0.0300	81,649	38.90
20	0.0090	0.0439	78,393	34.12	0.0124	0.0601	79,198	35.03
25	0.0158	0.0760	74,949	30.58	0.0201	0.0959	74,442	32.11
30	0.0223	0.1057	69,254	27.89	0.0239	0.1129	67,306	30.25
35	0.0244	0.1152	61,932	25.89	0.0217	0.1030	59,709	28.78
40	0.0251	0.1182	54,798	23.93	0.0197	0.0939	53,558	26.80
45	0.0253	0.1189	48,319	21.81	0.0171	0.0821	48,530	24.31
50	0.0257	0.1205	42,575	19.41	0.0176	0.0845	44,547	21.26
55	0.0278	0.1300	37,442	16.73	0.0212	0.1005	40,784	17.99
60	0.0363	0.1663	32,573	13.85	0.0298	0.1385	36,685	14.73
65	0.0534	0.2354	27,157	11.12	0.0457	0.2050	31,604	11.69
70	0.0803	0.3342	20,765	8.77	0.0732	0.3093	25,124	9.06
75	0.1144	0.4448	13,824	6.92	0.1101	0.4318	17,353	7.00
80	0.1627	0.5782	7,675	5.46	0.1630	0.5790	9,860	5.42
85+	0.2209	1.0000	3,237	4.53	0.2257	1.0000	4,151	4.43

**WHO LIFE TABLE FOR 1999: AMR A**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0068	0.0067	100,000	74.10	0.0061	0.0061	100,000	80.07
1	0.0004	0.0014	99,329	73.60	0.0003	0.0013	99,392	79.56
5	0.0002	0.0010	99,186	69.70	0.0002	0.0008	99,265	75.66
10	0.0002	0.0012	99,092	64.77	0.0002	0.0009	99,187	70.72
15	0.0009	0.0047	98,970	59.84	0.0004	0.0020	99,098	65.78
20	0.0013	0.0064	98,507	55.11	0.0004	0.0022	98,896	60.91
25	0.0013	0.0066	97,877	50.45	0.0006	0.0029	98,675	56.04
30	0.0017	0.0085	97,228	45.77	0.0008	0.0039	98,393	51.19
35	0.0022	0.0110	96,399	41.14	0.0011	0.0056	98,010	46.38
40	0.0030	0.0149	95,335	36.57	0.0016	0.0079	97,465	41.63
45	0.0042	0.0208	93,913	32.09	0.0024	0.0120	96,693	36.94
50	0.0063	0.0312	91,959	27.72	0.0039	0.0192	95,534	32.36
55	0.0099	0.0482	89,088	23.53	0.0061	0.0300	93,697	27.94
60	0.0162	0.0780	84,791	19.60	0.0099	0.0483	90,890	23.73
65	0.0248	0.1166	78,174	16.04	0.0150	0.0723	86,497	19.81
70	0.0390	0.1779	69,063	12.83	0.0240	0.1130	80,244	16.16
75	0.0595	0.2588	56,778	10.07	0.0377	0.1722	71,174	12.90
80	0.0963	0.3882	42,083	7.71	0.0641	0.2763	58,920	10.06
85+	0.1663	1.0000	25,748	6.01	0.1259	1.0000	42,642	7.94

**WHO LIFE TABLE FOR 1999: AMR B**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0299	0.0291	100,000	67.55	0.0255	0.0250	100,000	74.66
1	0.0014	0.0055	97,087	68.57	0.0014	0.0055	97,503	75.57
5	0.0005	0.0023	96,557	64.94	0.0004	0.0018	96,964	71.98
10	0.0005	0.0027	96,331	60.09	0.0004	0.0018	96,793	67.10
15	0.0016	0.0080	96,071	55.24	0.0006	0.0031	96,617	62.22
20	0.0026	0.0131	95,300	50.67	0.0008	0.0040	96,316	57.40
25	0.0031	0.0156	94,053	46.31	0.0010	0.0050	95,931	52.63
30	0.0036	0.0179	92,587	42.00	0.0013	0.0066	95,451	47.88
35	0.0044	0.0219	90,926	37.73	0.0019	0.0094	94,822	43.18
40	0.0054	0.0266	88,936	33.51	0.0027	0.0133	93,933	38.56
45	0.0073	0.0356	86,568	29.36	0.0040	0.0200	92,686	34.05
50	0.0103	0.0500	83,484	25.35	0.0061	0.0299	90,835	29.69
55	0.0150	0.0721	79,310	21.56	0.0092	0.0448	88,114	25.53
60	0.0220	0.1043	73,590	18.04	0.0139	0.0670	84,168	21.61
65	0.0320	0.1481	65,914	14.85	0.0205	0.0976	78,529	17.98
70	0.0471	0.2106	56,155	11.99	0.0307	0.1425	70,868	14.66
75	0.0686	0.2928	44,326	9.53	0.0467	0.2092	60,772	11.68
80	0.1053	0.4168	31,347	7.44	0.0777	0.3254	48,061	9.10
85+	0.1676	1.0000	18,281	5.97	0.1372	1.0000	32,424	7.29

**WHO LIFE TABLE FOR 1999: AMR D**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0446	0.0429	100,000	62.35	0.0338	0.0328	100,000	65.85
1	0.0058	0.0230	95,710	64.14	0.0061	0.0240	96,719	67.08
5	0.0014	0.0070	93,510	61.61	0.0013	0.0067	94,398	64.69
10	0.0010	0.0049	92,854	57.03	0.0008	0.0040	93,765	60.11
15	0.0016	0.0080	92,402	52.30	0.0011	0.0056	93,393	55.34
20	0.0025	0.0125	91,662	47.70	0.0016	0.0081	92,869	50.64
25	0.0030	0.0148	90,513	43.27	0.0021	0.0102	92,120	46.03
30	0.0036	0.0179	89,172	38.89	0.0026	0.0131	91,177	41.48
35	0.0048	0.0239	87,572	34.55	0.0036	0.0179	89,981	37.00
40	0.0065	0.0318	85,478	30.34	0.0046	0.0227	88,369	32.63
45	0.0089	0.0437	82,760	26.25	0.0062	0.0307	86,362	28.33
50	0.0132	0.0638	79,140	22.34	0.0091	0.0445	83,712	24.15
55	0.0193	0.0920	74,093	18.69	0.0137	0.0661	79,986	20.16
60	0.0292	0.1361	67,277	15.33	0.0227	0.1074	74,698	16.41
65	0.0440	0.1980	58,121	12.35	0.0361	0.1655	66,678	13.08
70	0.0686	0.2928	46,613	9.78	0.0614	0.2663	55,644	10.18
75	0.0979	0.3934	32,965	7.80	0.0907	0.3696	40,826	7.96
80	0.1315	0.4949	19,997	6.23	0.1317	0.4954	25,737	6.17
85+	0.2045	1.0000	10,101	4.89	0.2098	1.0000	12,986	4.77

**WHO LIFE TABLE FOR 1999: EMR B**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0313	0.0304	100,000	67.28	0.0266	0.0259	100,000	68.19
1	0.0025	0.0098	96,959	68.39	0.0028	0.0111	97,407	69.01
5	0.0007	0.0036	96,005	65.05	0.0006	0.0031	96,324	65.76
10	0.0006	0.0030	95,661	60.28	0.0005	0.0026	96,024	60.96
15	0.0008	0.0038	95,375	55.45	0.0006	0.0031	95,778	56.11
20	0.0008	0.0042	95,013	50.65	0.0007	0.0035	95,481	51.28
25	0.0011	0.0052	94,615	45.86	0.0010	0.0048	95,147	46.45
30	0.0014	0.0068	94,119	41.08	0.0011	0.0054	94,688	41.66
35	0.0019	0.0097	93,475	36.35	0.0017	0.0085	94,179	36.88
40	0.0026	0.0129	92,572	31.68	0.0021	0.0104	93,380	32.17
45	0.0043	0.0212	91,376	27.06	0.0036	0.0178	92,409	27.48
50	0.0081	0.0396	89,441	22.59	0.0068	0.0334	90,766	22.93
55	0.0131	0.0635	85,901	18.42	0.0103	0.0504	87,738	18.64
60	0.0253	0.1189	80,446	14.50	0.0237	0.1119	83,315	14.50
65	0.0417	0.1886	70,881	11.12	0.0410	0.1858	73,992	11.01
70	0.0791	0.3303	57,510	8.13	0.0818	0.3394	60,245	7.95
75	0.1306	0.4923	38,516	5.90	0.1392	0.5164	39,795	5.75
80	0.2131	0.6952	19,556	4.20	0.2146	0.6983	19,244	4.21
85+	0.3259	1.0000	5,960	3.07	0.3142	1.0000	5,805	3.18

**WHO LIFE TABLE FOR 1999: EMR D**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1053	0.0962	100,000	59.31	0.0907	0.0838	100,000	60.97
1	0.0061	0.0241	90,382	64.61	0.0071	0.0280	91,616	65.54
5	0.0014	0.0071	88,204	62.16	0.0013	0.0064	89,047	63.39
10	0.0011	0.0056	87,576	57.59	0.0010	0.0049	88,480	58.78
15	0.0013	0.0066	87,084	52.90	0.0013	0.0063	88,043	54.06
20	0.0015	0.0076	86,505	48.24	0.0016	0.0079	87,485	49.38
25	0.0021	0.0107	85,845	43.59	0.0022	0.0111	86,792	44.76
30	0.0029	0.0142	84,928	39.04	0.0025	0.0122	85,828	40.23
35	0.0040	0.0196	83,722	34.56	0.0033	0.0165	84,782	35.70
40	0.0050	0.0245	82,077	30.21	0.0037	0.0182	83,381	31.26
45	0.0072	0.0352	80,064	25.90	0.0057	0.0279	81,868	26.79
50	0.0123	0.0595	77,248	21.76	0.0101	0.0492	79,580	22.49
55	0.0179	0.0857	72,654	17.97	0.0139	0.0673	75,668	18.52
60	0.0298	0.1388	66,428	14.42	0.0278	0.1298	70,572	14.68
65	0.0440	0.1982	57,207	11.34	0.0420	0.1901	61,414	11.49
70	0.0750	0.3158	45,869	8.53	0.0730	0.3088	49,737	8.60
75	0.1185	0.4572	31,382	6.32	0.1198	0.4610	34,378	6.33
80	0.1904	0.6449	17,033	4.53	0.1879	0.6391	18,530	4.61
85+	0.3111	1.0000	6,048	3.21	0.2995	1.0000	6,687	3.34

**WHO LIFE TABLE FOR 1999: EUR A**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0055	0.0055	100,000	74.51	0.0045	0.0045	100,000	81.18
1	0.0003	0.0012	99,450	73.92	0.0002	0.0010	99,551	80.55
5	0.0002	0.0008	99,330	70.00	0.0001	0.0006	99,451	76.63
10	0.0002	0.0010	99,249	65.06	0.0001	0.0006	99,392	71.67
15	0.0006	0.0032	99,153	60.12	0.0003	0.0013	99,329	66.72
20	0.0010	0.0049	98,836	55.31	0.0003	0.0016	99,201	61.80
25	0.0011	0.0054	98,348	50.57	0.0004	0.0019	99,044	56.89
30	0.0014	0.0068	97,815	45.83	0.0006	0.0028	98,855	52.00
35	0.0017	0.0085	97,153	41.12	0.0008	0.0040	98,582	47.14
40	0.0025	0.0123	96,326	36.46	0.0012	0.0061	98,191	42.31
45	0.0038	0.0188	95,140	31.88	0.0019	0.0095	97,587	37.56
50	0.0059	0.0289	93,354	27.44	0.0029	0.0144	96,659	32.90
55	0.0094	0.0458	90,661	23.18	0.0044	0.0217	95,263	28.34
60	0.0154	0.0741	86,508	19.18	0.0069	0.0341	93,197	23.91
65	0.0253	0.1191	80,098	15.51	0.0116	0.0564	90,015	19.67
70	0.0401	0.1824	70,558	12.27	0.0205	0.0973	84,937	15.70
75	0.0632	0.2728	57,687	9.45	0.0359	0.1646	76,670	12.12
80	0.1066	0.4207	41,951	7.05	0.0691	0.2948	64,047	9.02
85+	0.1865	1.0000	24,301	5.36	0.1483	1.0000	45,169	6.74

**WHO LIFE TABLE FOR 1999: EurB**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0310	0.0302	100,000	66.99	0.0259	0.0253	100,000	72.48
1	0.0029	0.0115	96,981	68.08	0.0028	0.0112	97,472	73.36
5	0.0008	0.0038	95,866	64.85	0.0009	0.0045	96,383	70.17
10	0.0006	0.0032	95,497	60.09	0.0007	0.0037	95,948	65.48
15	0.0010	0.0050	95,189	55.28	0.0009	0.0045	95,596	60.71
20	0.0014	0.0071	94,712	50.54	0.0010	0.0050	95,171	55.97
25	0.0017	0.0085	94,042	45.88	0.0012	0.0059	94,690	51.24
30	0.0023	0.0113	93,241	41.26	0.0015	0.0075	94,136	46.53
35	0.0032	0.0157	92,191	36.70	0.0019	0.0094	93,426	41.86
40	0.0050	0.0247	90,745	32.24	0.0025	0.0124	92,551	37.24
45	0.0074	0.0364	88,504	28.00	0.0034	0.0171	91,401	32.67
50	0.0113	0.0547	85,280	23.96	0.0053	0.0262	89,838	28.20
55	0.0165	0.0791	80,613	20.20	0.0081	0.0396	87,481	23.89
60	0.0247	0.1163	74,233	16.72	0.0128	0.0622	84,021	19.77
65	0.0351	0.1613	65,600	13.60	0.0204	0.0971	78,797	15.92
70	0.0528	0.2333	55,018	10.73	0.0346	0.1594	71,147	12.36
75	0.0805	0.3350	42,183	8.23	0.0588	0.2564	59,810	9.23
80	0.1313	0.4944	28,050	6.12	0.1050	0.4157	44,477	6.55
85+	0.2143	1.0000	14,183	4.67	0.2260	1.0000	25,986	4.42

**WHO LIFE TABLE FOR 1999: EUR C**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0198	0.0195	100,000	62.93	0.0149	0.0147	100,000	73.89
1	0.0012	0.0047	98,052	63.18	0.0010	0.0040	98,531	73.99
5	0.0005	0.0025	97,587	59.47	0.0003	0.0016	98,142	70.28
10	0.0005	0.0025	97,341	54.62	0.0003	0.0014	97,984	65.39
15	0.0015	0.0077	97,094	49.75	0.0007	0.0033	97,849	60.48
20	0.0031	0.0153	96,346	45.12	0.0009	0.0042	97,528	55.67
25	0.0037	0.0182	94,870	40.78	0.0010	0.0052	97,114	50.89
30	0.0049	0.0241	93,140	36.49	0.0013	0.0067	96,610	46.15
35	0.0065	0.0322	90,897	32.33	0.0019	0.0093	95,966	41.44
40	0.0091	0.0446	87,975	28.32	0.0027	0.0134	95,075	36.80
45	0.0128	0.0620	84,048	24.53	0.0042	0.0207	93,804	32.27
50	0.0178	0.0851	78,837	20.98	0.0061	0.0303	91,861	27.90
55	0.0255	0.1197	72,131	17.70	0.0093	0.0452	89,080	23.69
60	0.0350	0.1607	63,499	14.77	0.0138	0.0668	85,051	19.70
65	0.0499	0.2220	53,293	12.12	0.0221	0.1048	79,367	15.93
70	0.0669	0.2865	41,463	9.86	0.0358	0.1643	71,048	12.50
75	0.0941	0.3807	29,582	7.82	0.0609	0.2644	59,375	9.47
80	0.1397	0.5178	18,319	6.09	0.1051	0.4161	43,676	6.97
85+	0.2023	1.0000	8,833	4.94	0.1940	1.0000	25,503	5.15

**WHO LIFE TABLE FOR 1999: SearB**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0508	0.0485	100,000	65.99	0.0399	0.0385	100,000	69.28
1	0.0022	0.0088	95,146	68.35	0.0022	0.0089	96,146	71.05
5	0.0015	0.0073	94,307	64.95	0.0014	0.0068	95,287	67.68
10	0.0012	0.0058	93,620	60.41	0.0010	0.0052	94,640	63.12
15	0.0028	0.0137	93,074	55.75	0.0017	0.0084	94,146	58.44
20	0.0038	0.0188	91,801	51.48	0.0019	0.0092	93,355	53.91
25	0.0039	0.0194	90,074	47.42	0.0020	0.0098	92,492	49.39
30	0.0041	0.0203	88,328	43.31	0.0024	0.0117	91,588	44.86
35	0.0047	0.0234	86,535	39.16	0.0031	0.0155	90,513	40.36
40	0.0059	0.0289	84,513	35.03	0.0044	0.0218	89,113	35.96
45	0.0078	0.0381	82,073	31.00	0.0062	0.0303	87,174	31.70
50	0.0104	0.0507	78,943	27.13	0.0089	0.0434	84,533	27.61
55	0.0134	0.0650	74,940	23.45	0.0116	0.0565	80,860	23.75
60	0.0182	0.0870	70,068	19.90	0.0165	0.0795	76,292	20.02
65	0.0254	0.1195	63,971	16.56	0.0242	0.1139	70,230	16.54
70	0.0374	0.1710	56,325	13.47	0.0373	0.1706	62,230	13.34
75	0.0540	0.2378	46,692	10.73	0.0546	0.2402	51,612	10.57
80	0.0807	0.3357	35,591	8.30	0.0828	0.3428	39,217	8.12
85+	0.1604	1.0000	23,641	6.23	0.1651	1.0000	25,771	6.06

**WHO LIFE TABLE FOR 1999: SEAR D**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0746	0.0699	100,000	59.23	0.0714	0.0671	100,000	60.73
1	0.0084	0.0328	93,012	62.68	0.0106	0.0414	93,288	64.10
5	0.0022	0.0111	89,957	60.75	0.0029	0.0143	89,423	62.80
10	0.0014	0.0067	88,963	56.40	0.0015	0.0074	88,148	58.67
15	0.0017	0.0083	88,363	51.77	0.0023	0.0112	87,494	54.09
20	0.0023	0.0117	87,632	47.18	0.0031	0.0152	86,514	49.68
25	0.0029	0.0143	86,610	42.71	0.0029	0.0145	85,203	45.40
30	0.0035	0.0172	85,374	38.29	0.0031	0.0154	83,968	41.03
35	0.0042	0.0210	83,908	33.91	0.0033	0.0163	82,672	36.64
40	0.0064	0.0313	82,149	29.59	0.0044	0.0217	81,321	32.20
45	0.0093	0.0452	79,578	25.46	0.0061	0.0300	79,557	27.86
50	0.0144	0.0695	75,978	21.55	0.0104	0.0507	77,167	23.65
55	0.0204	0.0970	70,700	17.97	0.0149	0.0718	73,253	19.78
60	0.0334	0.1539	63,841	14.63	0.0256	0.1203	67,991	16.11
65	0.0481	0.2145	54,014	11.84	0.0372	0.1702	59,809	12.98
70	0.0726	0.3071	42,428	9.39	0.0621	0.2687	49,629	10.13
75	0.1029	0.4091	29,397	7.44	0.0905	0.3690	36,294	7.93
80	0.1423	0.5248	17,371	5.87	0.1313	0.4944	22,902	6.10
85+	0.2180	1.0000	8,255	4.59	0.2163	1.0000	11,580	4.62

**WHO LIFE TABLE FOR 1999: WPR A**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0042	0.0042	100,000	77.47	0.0035	0.0035	100,000	84.67
1	0.0004	0.0015	99,579	76.79	0.0003	0.0013	99,648	83.97
5	0.0002	0.0008	99,432	72.90	0.0001	0.0006	99,520	80.08
10	0.0002	0.0008	99,353	67.96	0.0001	0.0005	99,460	75.13
15	0.0005	0.0027	99,275	63.01	0.0002	0.0011	99,407	70.16
20	0.0007	0.0036	99,005	58.18	0.0003	0.0014	99,298	65.24
25	0.0008	0.0038	98,649	53.38	0.0003	0.0016	99,158	60.33
30	0.0009	0.0044	98,278	48.57	0.0004	0.0022	98,999	55.42
35	0.0012	0.0058	97,847	43.77	0.0006	0.0030	98,780	50.54
40	0.0017	0.0085	97,283	39.01	0.0010	0.0048	98,480	45.68
45	0.0029	0.0142	96,457	34.32	0.0016	0.0079	98,004	40.89
50	0.0046	0.0229	95,089	29.78	0.0023	0.0116	97,234	36.20
55	0.0071	0.0351	92,910	25.42	0.0033	0.0165	96,110	31.59
60	0.0120	0.0582	89,651	21.25	0.0053	0.0260	94,525	27.08
65	0.0192	0.0918	84,433	17.41	0.0083	0.0405	92,070	22.74
70	0.0295	0.1375	76,686	13.92	0.0140	0.0675	88,337	18.59
75	0.0507	0.2249	66,139	10.74	0.0260	0.1219	82,372	14.76
80	0.0870	0.3574	51,263	8.13	0.0497	0.2211	72,327	11.46
85+	0.1596	1.0000	32,941	6.27	0.1111	1.0000	56,336	9.00

**WHO LIFE TABLE FOR 1999: WPR B**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0294	0.0287	100,000	67.54	0.0304	0.0296	100,000	71.02
1	0.0026	0.0104	97,135	68.53	0.0028	0.0112	97,042	72.18
5	0.0009	0.0045	96,129	65.23	0.0007	0.0033	95,952	68.98
10	0.0007	0.0035	95,697	60.51	0.0005	0.0027	95,635	64.20
15	0.0012	0.0058	95,358	55.72	0.0010	0.0048	95,380	59.37
20	0.0015	0.0074	94,806	51.03	0.0013	0.0063	94,925	54.64
25	0.0014	0.0071	94,108	46.39	0.0012	0.0059	94,324	49.97
30	0.0019	0.0096	93,437	41.70	0.0014	0.0071	93,771	45.25
35	0.0024	0.0119	92,537	37.09	0.0016	0.0081	93,110	40.56
40	0.0034	0.0167	91,433	32.50	0.0023	0.0117	92,354	35.87
45	0.0052	0.0258	89,906	28.01	0.0036	0.0181	91,275	31.26
50	0.0085	0.0415	87,589	23.69	0.0059	0.0289	89,625	26.79
55	0.0137	0.0664	83,951	19.61	0.0091	0.0447	87,037	22.52
60	0.0231	0.1092	78,374	15.82	0.0155	0.0745	83,151	18.45
65	0.0375	0.1716	69,815	12.46	0.0255	0.1198	76,960	14.73
70	0.0626	0.2708	57,835	9.52	0.0448	0.2016	67,743	11.40
75	0.1007	0.4021	42,173	7.13	0.0730	0.3087	54,084	8.65
80	0.1588	0.5684	25,214	5.24	0.1183	0.4564	37,387	6.39
85+	0.2603	1.0000	10,881	3.84	0.2147	1.0000	20,322	4.66



**WHO LIFE TABLE FOR 1999: GLOBAL**

x	Males				Females			
	$nM_x$	$nq_x$	$l_x$	$e_x$	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0585	0.0556	100,000	62.56	0.0547	0.0521	100,000	66.45
1	0.0070	0.0274	94,440	65.24	0.0075	0.0294	94,786	69.09
5	0.0019	0.0092	91,856	63.03	0.0019	0.0096	92,002	67.14
10	0.0012	0.0060	91,009	58.60	0.0012	0.0058	91,123	62.76
15	0.0018	0.0091	90,459	53.94	0.0018	0.0087	90,596	58.11
20	0.0026	0.0128	89,634	49.41	0.0025	0.0124	89,803	53.60
25	0.0031	0.0154	88,483	45.02	0.0029	0.0142	88,692	49.24
30	0.0038	0.0188	87,118	40.69	0.0031	0.0155	87,430	44.92
35	0.0044	0.0220	85,484	36.42	0.0032	0.0159	86,076	40.58
40	0.0056	0.0278	83,603	32.18	0.0037	0.0185	84,703	36.20
45	0.0074	0.0364	81,283	28.03	0.0047	0.0233	83,140	31.84
50	0.0107	0.0521	78,322	23.99	0.0070	0.0346	81,203	27.54
55	0.0155	0.0746	74,237	20.17	0.0102	0.0495	78,396	23.43
60	0.0244	0.1152	68,701	16.60	0.0163	0.0782	74,515	19.52
65	0.0365	0.1674	60,789	13.43	0.0247	0.1161	68,690	15.96
70	0.0561	0.2460	50,614	10.63	0.0397	0.1806	60,715	12.73
75	0.0839	0.3467	38,162	8.28	0.0608	0.2638	49,752	9.99
80	0.1275	0.4833	24,932	6.35	0.0961	0.3873	36,629	7.67
85+	0.2017	1.0000	12,881	4.96	0.1683	1.0000	22,443	5.94

## Appendix A. – Availability of Vital Registration Data

Country	Available Years
Albania	1987-1989, 1992-1993
Antigua and Barbuda	1961-1964, 1966, 1969-1978, 1983, 1987, 1990-1995
Argentina	1966-1970, 1977-1996
Armenia	1981-1982, 1985-1997
Australia	1950-1995
Austria	1955-1998
Azerbaijan	1981-1982, 1985-1997
Bahamas	1969, 1971-1972, 1974-1977, 1979-1981, 1983-1985, 1987, 1993-1995
Bahrain	1985, 1987-1988
Barbados	1955-1995
Belarus	1981-1982, 1985-1990, 1992-1998
Belgium	1954-1994
Belize	1964-1984, 1986-1987, 1989-1991, 1993-1995
Bulgaria	1964-1998
Canada	1950-1997
Cape Verde	1980
Chile	1954-1994
China	1987-1998 (for selected urban and rural areas only)
Colombia	1953-1970, 1972, 1974-1977, 1979, 1981, 1984-1994
Costa Rica	1956-1995
Croatia	1985-1997
Cuba	1959, 1964-1965, 1968-1996
Cyprus	1977-1996
Czech Republic	1986-1998
Denmark	1951-1996
Dominica	1961-1962, 1967-1986, 1988, 1990-1994
Dominican Republic	1956-1963, 1965-1985
Ecuador	1961, 1963-1975, 1977-1995
Egypt	1976-1983, 1986-1987, 1990-1992
El Salvador	1950-1974, 1981-1984, 1990-1993
Estonia	1981-1982, 1985-1998
Fiji	1978
Finland	1952-1996
France	1950-1996
Georgia	1981-1982, 1985-1990
Germany	1990-1997
Greece	1956-1997
Grenada	1974-1978, 1984, 1988
Guatemala	1958-1971, 1974-1981, 1984
Guyana	1975-1977, 1979, 1984, 1993-1994
Haiti	1980-1981, 1983
Honduras	1966, 1968-1983
Hungary	1955-1998
Iceland	1951-1995
Ireland	1950-1996
Israel	1975-1996
Italy	1951-1995
Jamaica	1960-1961, 1964-1965, 1967-1971, 1975, 1977, 1983-1985
Japan	1950-1997
Jordan	1976-1977
Kazakhstan	1981-1982, 1985-1997
Kuwait	1972, 1975-1987, 1993-1997
Kyrgyzstan	1981-1982, 1985-1998
Latvia	1980-1998
Lithuania	1981-1982, 1985-1997
Luxembourg	1955-1962, 1965-1997
Malaysia	1974, 1976, 1990-1996
Malta	1955-1997
Mauritius	1957-1997

<b>Country</b>	<b>Available Years</b>
Mexico	1955-1995
Monaco	1986-1987
Mongolia	1994
Morocco	1991-1993, 1995-1996
Myanmar	1977-1978
Netherlands	1950-1997
New Zealand	1950-1996
Nicaragua	1959, 1961-1965, 1968-1969, 1973-1978, 1988-1994
Norway	1951-1995
Panama	1954-1989
Paraguay	1994
Peru	1966-1973, 1977-1978, 1980-1983, 1986-1989
Philippines	1963-1978, 1981, 1992-1993, 1996
Poland	1959-1996
Portugal	1955-1998
Qatar	1995
Republic of Korea	1985-1997
Republic of Moldova	1981-1982, 1985-1996
Romania	1959-1978, 1980-1998
Russian Federation	1980-1997
Saint Kitts and Nevis	1961-1963, 1965-1967, 1969-1995
Saint Lucia	1968-81, 1983, 1986-1988, 1991-1995
Saint Vincent and the Grenadines	1970-1972, 1974, 1977-1979, 1982-1986
Sao Tome and Principe	1984-1987
Seychelles	1981-1982, 1985-1987
Singapore	1955-1997
Slovakia	1992-1995
Slovenia	1985-1997
South Africa	1993-1995
Spain	1951-1995
Sri Lanka	1950-1968, 1977-1989, 1995
Suriname	1963-1966, 1971-1973, 1975-1982, 1984-1988, 1990, 1992
Sweden	1951-1996
Switzerland	1951-1994
Tajikistan	1981-1982, 1985-1992
TFYR Macedonia	1991-1997
Thailand	1955-1994
Trinidad and Tobago	1951-1994
Tunisia	1979-1980, 1994-1995
Turkmenistan	1981-1982, 1985-1994
U.S.A.	1950-1997
Ukraine	1981-1982, 1985-1992, 1996-1998
United Kingdom	1950-1997
Uruguay	1955-1960, 1963-1978, 1980-1990
Uzbekistan	1981-1982, 1985-1993
Venezuela	1955-1983, 1985-1990, 1992-1994

## Appendix B - Sources of Non-Vital Registration Data for estimating child mortality

country	Source of data	Reference year of survey	Method: Direct/indirect
Afghanistan	1972-1974 National Demographic and Family Guidance Survey	1972-1974	Indirect
Algeria	National Life Tables . Algeria (n.d., 1981, 1985 and 1987). "Annuaire statistique de l'Algerie, 1979, 1981, 1983-1984 and 1985-1986, No. 13." Algiers: Office national des statistiques.	1977-1986	
	Enquete Demographique, August 1969-March 1971. Vallin, Jacques (1975). La mortalite en Algerie. "Population" (Paris), vol. 30, No. 6(novembre-decembre), p. 1036, table 5.	1969-1971	Direct
	Enquete Fecondite, 1970. Tabutin, Dominique (1977). Comparaison de diverses approches pour la mesure de la mortalite aux jeunes Ages. "Genus" (Rome), vol. 33, No. 3-4, annex table 1.	1970	Indirect
	Enquete Nationale sur la Fecondite 1986. Algeria (1989). "Enquete nationale sur la Fecondite 1986 - Rapport national final." Algiers:Centre national d' Etudes et d'analyses pour la planification (CENEAP).	1986	Direct
	Papchild92, Pan Arab Project for Child Development Maternal and health survey.	1992	
Argentina	Infant and child mortality rates from national life tables	1959-1961, 1969-1971, 1980-1981	
	Census, 30 September 1970	1970	Indirect
	Census, 22 October 1980	1980	Indirect
	Census, 15 May 1991	1991	Indirect
	WHO. Based on reported mortality data.	1966-1996	Direct
Bangladesh	Population Growth Estimation Experiment, 1962-1965	1962-1965	Direct
	Infant and child mortality rates from national life tables	1981, 1983, 1987	
	Bangladesh Retrospective Survey of Fertility and Mortality, 1974	1974	Indirect
	Bangladesh Fertility Survey, December 1975-March 1976	1975-1976	Direct/Indirect
	Bangladesh Contraceptive Prevalence Survey, September 1979-January 1980	1979-1980	Indirect
	Bangladesh Contraceptive Prevalence Survey, May-August 1981	1981	Indirect
	Bangladesh Contraceptive Prevalence Survey, October 1983-January 1984	1983-1984	Indirect
	Bangladesh Contraceptive Prevalence Survey, December 1985-April 1986	1985-1986	Indirect
	Bangladesh Fertility Survey, December 1988-April 1989	1988-1989	Direct
	DHS, Bangladesh Demographic And Health Survey, November 1993-March 1994	1993-1994	Direct/Indirect
	1994 Health and Demographic Survey	1994	Indirect
	DHS, Demographic and Health Survey 1997	1997	Direct
	National data bank	1991-1996	
Benin	Enquete sur la Fecondite au Benin, Jan-June 1982	1982	Direct/Indirect
	DHS1996	1996	Direct/Indirect
	Census 15-29 February 1992	1992	Indirect
	MRS81-83: Multi-Round Survey, 1981-1983	1981-1983	Direct
Bhutan	Demographic Sample Survey, 1984	1984	Direct/Indirect
	National Health Survey, 1994	1994	Direct
Bolivia	Encuesta Demografica Nacional, June-October 1975	1975	Indirect
	Census, 29 September 1976	1976	Indirect
	DHS, Demographic and Health Survey, 1980	1980	
	Encuesta Nacional de Poblacion y Vivienda, September 1988	1988	Indirect
	DHS, Encuesta Nacional de Demografica y Salud, March-June 1989	1989	Direct/Indirect
	DHS, Demographic and Health Survey, 1993/94	1993-1994	Direct/Indirect
	Census, 3 June 1992	1992	Indirect
Botswana	DHS, Demographic and Health Survey, 1998	1998	
	1971 census	1971	Indirect
	1981 census	1981	Indirect
	1984 Botswana Family Health Survey I (CPS)	1984	Indirect
	1988 Botswana Family Health Survey II (DHS)	1988	Direct/Indirect
Brazil	1991 census	1991	Indirect
	Pesquisa Nacional por Amostra de Domicilios, 28 November 1976	1976	Indirect
	Pesquisa Nacional por Amostra de Domicilios, October-December 1972	1972	Indirect
	Pesquisa Nacional por Amostra de Domicilios, October-December 1973	1973	Indirect

## Appendix B - Sources of Non-Vital Registration Data for estimating child mortality

country	Source of data	Reference year of survey	Method: Direct/indirect
	Pesquisa Nacional por Amostra de Domicilios, 31 October 1977	1977	Indirect
	Pesquisa Nacional por Amostra de Domicilios, 31 October 1978	1978	Indirect
	Pesquisa Nacional por Amostra de Domicilios, 29 September 1984	1984	Indirect
	Pesquisa Nacional por Amostra de Domicilios, 4 October 1986	1986	Indirect
	Census, 1 September 1980	1980	Indirect
	DHS 1986	1986	Direct/Indirect
	Census, 1 September 1970	1970	Indirect
	DHS 1996	1996	Direct/Indirect
	WHO. Based on mortality data from reporting areas of Brazil	1979-1986	Direct
Burkina Faso	Post-enumeration Survey, 1976	1976	Indirect
	Census, 10-20 July 1985	1985	Indirect
	DHS, Enquete Demographique et de Sante, 1992	1992	Direct/Indirect
	Enquête Demographique de 1991, May-August 1991	1991	Direct
Burundi	Enquete Demographique Burundi, May 1970-July 1971	1970-1971	Direct/Indirect
	Enquete Post-censitaire, November 1979	1979	Indirect
	DHS87: Enquete Demographique et de Sante au Burundi, 1987	1987	Direct/Indirect
	Census90: Census, 16-30 August 1990	1990	Indirect
Cameroon	Cameroon Fertility Survey, 1978	1978	Direct/Indirect
	DHS, Enquete Demographique et de Sante au Cameroun, 1991	1991	Direct/Indirect
	DHS98	1998	Direct
Central African Republic	1975 census	1975	Indirect
	1988 census	1988	Indirect
	1995 DHS	1995	Direct/Indirect
	1988 census	1988	Direct/Indirect
	DHS, Enquete Demographique et de Sante, September 1994-March 1995	1994-1995	Direct/Indirect
Chad	1993 population census	1993	Indirect
	1997 DHS	1997	Direct
Chile	Infant and child mortality rates from national life tables	1960-1961, 1969-1970	
	Census, 22 April 1970	1970	Indirect
	Census, 21 April 1982	1982	Indirect
	Census, 23 April 1992	1992	Indirect
	WHO. Based on reported mortality data.	1955-1994	Direct
China	Infant and child mortality rates from national life tables	1981, 1986	
	Census, 1 July 1982	1982	Indirect
	Female Fertility in China: a 1 0/00 Population Survey, 31 June 1982	1982	Indirect
	China 1 0/00 Population Sample Survey, 1 July 1987	1987	Indirect
	Census, 1 July 1990	1990	Direct/Indirect
	1988 National Survey on Fertility and Birth Control	1988	Direct
	1992 Fertility Sampling Survey	1992	Direct
	WHO. Based on mortality data for reporting areas of China	1988-1992	Direct
	WHO Regional Office for the Western Pacific, HFACFE(3): covers 855 millions in 81 cities and counties	1998	
	Chinese Disease surveillance points system	1990-1997	
	Li Shuzhuo. From life tables for China, 1990-1998, abridged and graduated.	1990-1998	
	Feeney	1990-1994	
China, Hong Kong SAR	Infant and child mortality rates from national life tables	1960-1962, 1970-1972, 1976, 1981, 1986, 1987, 1988, 1989, 1990, 1991	Direct
	Hong Kong By-Census, 30 July-8 August 1976	1976	Indirect
Colombia	Census, 24 October 1973	1973	Indirect
	Encuesta Colombiana de Fecundidad, May-August 1976	1976	Direct/Indirect

## Appendix B - Sources of Non-Vital Registration Data for estimating child mortality

country	Source of data	Reference year of survey	Method: Direct/indirect
	Encuesta Nacional de Hogares, June-July 1978	1978	Indirect
	Encuesta Nacional de Prevalencia de Uso de Anticoncepcion, October-December 1978	1978	Indirect
	Encuesta Nacional de Hogares, June-July 1980	1980	Indirect
	Census, 15 October 1985	1985	Indirect
	DHS, Encuesta de Prevalencia, Demografica y Salud, October-December 1986	1986	Direct/Indirect
	DHS, Encuesta de Prevalencia, Demografica y Salud, May-August 1990	1990	Direct/Indirect
	DHS, Encuesta Nacional de Demografica y Salud, March-June 1995	1995	Direct/Indirect
	WHO. Based on reported mortality data.	1955-1994	Direct
Comoros	DHS, Enquete Demographique et de Sante, Comoros March-May 1996	1996	Direct/Indirect
	Census September 1980	1980	Indirect
Congo	Census, 1974	1974	Direct/Indirect
Costa Rica	Census, 14-19 May 1973	1973	Indirect
	Encuesta Nacional de Fecundidad, July-December 1976	1976	Direct/Indirect
	Encuesta de Prevalencia Anticonceptiva, March-May 1978	1978	Indirect
	Encuesta de Prevalencia Anticonceptiva, January-April 1981	1981	Indirect
	Census, 11 June 1984	1984	Indirect
	Encuesta de Fecundidad y Salud, January-May 1986	1986	Indirect
	WHO. Based on reported mortality data.	1956-1995	Direct
Cote d'Ivoire	Enquete Demographique a Passages Repetes, 1978-1979 (Nationals only)	1978-1979	Indirect
	Enquete Ivoirienne sur la Fecondite, August 1980-March 1981	1980-1981	Direct/Indirect
	DHS, Enquete Demographique et de Sante, June-November 1994	1994	Direct/Indirect
	Population and Housing Census, March 1988	1988	Indirect
Cuba	Encuesta Nacional de Ingresos y Egresos de la Poblacion, 1974	1974	Indirect
	Encuesta Demografica Nacional, 22-31 March 1979	1979	Indirect
	Census, 11 September 1981	1981	Indirect
	Encuesta Nacional de Fecundidad, November-December 1987	1987	Indirect
	Infant and child mortality rates from national life tables	1969-1971, 1980-1982, 1985-1986	
	WHO. Based on reported mortality data.	1964-1996	Direct
Dem. Republic of the Congo	Census, 1 July 1984	1984	Indirect
	1996 MICS	1996	Indirect
Dominican Republic	Census, 9-10 January 1970	1970	Indirect
	Encuesta Nacional de Fecundidad, April-June 1975	1975	Direct/Indirect
	Encuesta Nacional de Fecundidad, February-May 1980	1980	Direct/Indirect
	Census, 12-13 December 1981	1981	Indirect
	DHS. Encuesta Demografica y de Salud, September-December 1986	1986	Direct/Indirect
	DHS 1991	1991	Direct/Indirect
	Encuesta Nacional de Prevalencia del Uso de Anticonceptivos, May-July 1983	1983	Indirect
	DHS 1996	1996	Direct/Indirect
	WHO. Based on reported mortality data.	1958-1985	Direct
Ecuador	Census, 8 June 1974	1974	Indirect
	Encuesta Nacional de Fecundidad, August-December 1979	1979	Direct/Indirect
	Census, 28 November 1982	1982	Indirect
	Encuesta Nacional de Salud Materno Infantil y Variables Demograficas, September-November 1982	1982	Indirect
	DHS, Encuesta Demografica y de Salud Familiar, January-March 1987	1987	Direct/Indirect
	Encuesta Demografica y de Salud Materna e infantil, July-October 1989	1989	Direct/Indirect
	Census, 25 November 1990	1990	Indirect
	WHO. Based on reported mortality data.	1961-1991	Direct
Egypt	Census, 23 November 1976	1976	Indirect
	Egyptian Fertility Survey, May-June 1980	1980	Direct/Indirect
	Egypt Contraceptive Prevalence Survey, October-November 1984	1984	Indirect
	Census, 17-18 November 1986	1986	Indirect

## Appendix B - Sources of Non-Vital Registration Data for estimating child mortality

country	Source of data	Reference year of survey	Method: Direct/indirect
	DHS, Egypt Demographic and Health Survey October 1988 - January 1989	1988-1989	Direct/Indirect
	Egypt Maternal and Child Health Survey - PAP Child, 1991	1991	Direct/Indirect
	DHS, Egyptian Demographic and Health Survey, November 1992- February 1993	1992-1993	Direct/Indirect
	DHS, Egyptian Demographic and Health Survey, November 1995- January 1996	1995-1996	Direct/Indirect
	Vital Statistics	1960-1989	Direct
	Egypt Maternal and Child Health Survey - PAP Child, 1991	1991	Direct/Indirect
	DHS, Egyptian Demographic and Health Survey, November 1995- January 1996	1995-1996	Direct
El Salvador	Census, 28 June 1971	1971	Indirect
	Encuesta Nacional de Fecundidad, May-June 1973	1973	Indirect
	DHS, Encuesta Nacional de Salud Familiar, May-June 1985	1985	Direct/Indirect
	DHS, Encuesta Nacional de Salud Familiar, May-June 1988	1988	Direct
	Encuesta Nacional de Salud Familiar, 1993	1993	Direct/Indirect
	Encuesta de Hongares de Propositos Multiples, September 1992	1992	Indirect
	Encuesta de Hongares de Propositos Multiples, March 1992	1992	Indirect
	Encuesta de Hongares de Propositos Multiples, March 1993	1993	Indirect
	Census 1992	1992	Indirect
	Infant and child mortality rates from national life tables	1960-1965, 1965-1970, 1970-1975, 1975-1980, 1980-1985, 1985-1990	Direct
	WHO. Based on reported mortality data.	1958-1993	Direct
Eritrea	DHS, Eritrea Demographic and Health Survey September- December 1995	1995	Direct/Indirect
Ethiopia	1981 Ethiopia Demographic Survey	1981	Indirect
	Census, 9 May 1984	1984	Indirect
	1990 National Family and Fertility Survey	1990	Direct/Indirect
	Census, 9 May 1984	1984	Direct/Indirect
	1990 National Family and Fertility Survey	1990	Indirect
Gambia	1973 Census	1973	Indirect
	1983 Census	1983	Indirect
	1993 Census	1993	Indirect
Ghana	1971 census	1971	Indirect
	Ghana Fertility Survey, February 1979-March 1980 (WFS)	1979-1980	Direct/Indirect
	DHS, Demographic and Health Survey, February-May 1988	1988	Direct/Indirect
	DHS, Demographic and Health Survey, 1993	1993	Direct/Indirect
Guatemala	Census, 26 March-7 April 1973	1973	Indirect
	Encuesta Nacional de Fecundidad, Planificacion Familiar y Comunicacion, September 1977-August 1978	1977-1978	Indirect
	Census, 26 March 1981	1981	Indirect
	Encuesta Nacional Socio-Demografica, October 1986-August 1987	1986-1987	Indirect
	DHS, Encuesta Nacional de Salud Materno Infantil, September-December 1987	1987	Direct/Indirect
	Encuesta Nacional Socio-Demografica, April-July 1989	1989	Indirect
	DHS 1995	1995	Direct/Indirect
	WHO. Based on reported mortality data.	1958-1984	Direct
Guinea	Enquete Demographique et de Sante, May 1992-March 1993	1992-1993	Direct/Indirect
Haiti	Census, 31 August 1971	1971	Indirect
	Enquete Hantienne sur la Fecondite, July-September 1977	1977	Direct/Indirect
	Census, 30 August 1982	1982	Indirect
	Enquete Hantienne sur la Prevalence de la Contraception, 1983	1983	Indirect
	Enquete Mortalite, Morbidite et Utilisation des Services, May-September 1987	1987	Direct/Indirect
	DHS 1994	1994	Direct/Indirect
Honduras	Encuesta Demografica Nacional de Honduras, December 1970-October 1972	1970-1972	Direct
	Encuesta Demografica Nacional Retrospectiva, July-October 1972	1972	Indirect
	Census, 6 March 1974	1974	Indirect

## Appendix B - Sources of Non-Vital Registration Data for estimating child mortality

country	Source of data	Reference year of survey	Method: Direct/indirect
	Encuesta Demografica Nacional de Honduras, July 1983-January 1984	1983-1984	Indirect
	Encuesta Nacional de Salud Materno Infantil, February 1984-February 1985	1984-1985	Indirect
	Census, 29 May 1988	1988	Indirect
	Encuesta Nacional de Epidemiologia y Salud Familiar, June-November 1987	1987	Direct/Indirect
	Encuesta Nacional de Epidemiologia y Salud Familiar, September 1991-February 1992	1991-1992	Indirect
	WHO. Based on reported mortality data.	1966-1981	Direct
India	National Family Planning Survey, July 1970-January 1971	1970-1971	Indirect
	Survey on Infant and Child Mortality, 1979	1979	Indirect
	Second All-India Family Planning Survey, 1980-1981	1980-1981	Indirect
	Census, 1 March 1981	1981	Indirect
	National Family Health Survey April 1992-September 1993	1992-1993	Direct/Indirect
	Derived from vital registration	1971-1996	Direct
Indonesia	Census, 24 September 1971	1971	Indirect
	Indonesia Fertility Survey, April-May 1976	1976	Direct/Indirect
	Census, 31 October 1980	1980	Indirect
	National Indonesia Contraceptive Prevalence Survey, September-December 1987	1987	Direct/Indirect
	DHS, Demographic And Health Survey, May-June 1991	1991	Direct/Indirect
	Census, 31 December 1990	1990	Indirect
	DHS, Demographic And Health Survey, July-November 1994	1994	Direct/Indirect
	DHS, Demographic and Health Survey 1997	1997	Direct
Iran (Islamic Republic of)	Population Growth Survey of Iran, 1973-1976	1973-1976	Direct/Indirect
	Census, 22 September 1986	1986	Indirect
	1991 Intercensal Population Survey	1991	Indirect
Iraq	Demographic Sample Survey And Sample Registration System, 1973-1974	1973-1974	Direct
	Fertility Survey, 1974	1974	Indirect
	Census, 17 October 1987	1987	Indirect
	Iraq Immunization, Diarrhoeal Disease, Maternal And Child Mortality Survey, May-June 1990	1990	Indirect
	National Child Health Survey 1989	1989	Direct/Indirect
	Child/ Maternal Mortality Survey 1999	1999	
Israel	Infant and child mortality rates from national life tables	1969-1988	
	Average values from national life tables	1970-1974, 1975-1979, 1980-1984, 1985-1989, 1988-1992	
	WHO. Based on reported mortality data.	1975-1996	Direct
Jamaica	Jamaica Fertility Survey, November 1975-January 1976	1975-1976	Direct/Indirect
	Census, 8 June 1982	1982	Indirect
	Contraceptive Prevalence Survey, Jamaica, 1989	1989	Direct
	Infant and child mortality rates from national life tables	1959-1961	
	WHO. Based on reported mortality data.	1960-1985	Direct
Jordan	National Fertility Survey In Jordan, January 1972	1972	Indirect
	Jordan Fertility Survey, 1976	1976	Direct/Indirect
	Census, 10 November 1979	1979	Indirect
	Jordan Demographic Survey, 1981	1981	Indirect
	Jordan Epi/CDD And Child Mortality Survey 1988	1988	Indirect
	Jordan Epi/CDD And Child Mortality Survey 1990	1990	Indirect
	DHS, Demographic and Health Survey, 1990	1990	Direct/Indirect
	Jordan Population And Family Health Survey (Sept.-Dec.) 1990	1990	Indirect
	DHS, Demographic and Health Survey, 1997	1997	
	WHO. Based on reported mortality data.	1965, 1966, 1973, 1978, 1979	Direct
Kazakhstan	DHS, Demographic and Health Survey, 1995	1995	Direct/Indirect



## Appendix B - Sources of Non-Vital Registration Data for estimating child mortality

country	Source of data	Reference year of survey	Method: Direct/indirect
Kenya	WHO. Based on reported mortality data.	1981-1997	Direct
	Census, 24-25 August 1969	1969	Indirect
	National Demographic Survey, January 1977	1977	Indirect
	Kenya Fertility Survey, August 1977-May 1978	1977-1978	Direct/Indirect
	Census, 24-25 August 1979	1979	Indirect
	National Demographic Survey, 1983	1983	Indirect
	DHS, Kenya Demographic and Health Survey, October 1988 -May 1989	1988-1989	Direct/Indirect
	DHS, Kenya Demographic and Health Survey, February-August 1993	1993	Direct/Indirect
	1989 Census	1989	Indirect
Kuwait	DHS 1998	1998	
	Infant and child mortality rates from national life tables	1974-1976, 1979-1981, 1984-1986	
Kyrgyzstan	Census, 20-21 April 1975	1975	Indirect
	Census, 20-21 April 1980	1980	Indirect
	Kuwait Child Health Survey , March-April 1987	1987	Indirect
	WHO. Based on reported mortality data.	1975-1997	Direct
	DHS, Demographic and Health Survey, 1998	1998	
Lao People's Dem. Republic	WHO. Based on reported mortality data.	1981-1997	Direct
	Fertility and Birth Spacing Survey September 1994-March 1995	1994-1995	Direct
	Laos Social Indicator Survey, May-July 1993	1993	Indirect
Lebanon	Country report: Lao People's democratic Republic Peace Independence democracy Unity Prosperity, 1997.	1997	
	National Fertility And Family Planning Survey, 1971	1971	Indirect
Lesotho	Papchild1996	1996	
	Rural Household Consumption and Expenditure Survey, March 1968-May 1969	1968-1969	Indirect
	Lesotho Demographic Survey, May 1971	1971	Indirect
	Census, 12 April 1976	1976	Indirect
	Lesotho Fertility Survey, April-December 1977	1977	Direct/Indirect
Liberia	Census, 12 April 1986	1986	Indirect
	Population Growth Survey, May 1969-April 1970	1969-1970	Direct/Indirect
	Population Growth Survey, May 1970-April 1971	1970-1971	Direct/Indirect
	Census, 1 February 1974	1974	Indirect
Libyan Arab Jamahiriya	DHS, Demographic and Health Survey, February-July 1986	1986	Direct/Indirect
	Census, 31 July 1973	1973	Indirect
	Vital Statistics	1972-1981	Direct
Madagascar	Libya Maternal and Child Health Survey - PAP Child, 1995	1995	
	Enquete Demographique Madagascar, 9 May-11 November 1966	1966	Indirect
	DHS, Enquete Nationale Demographique et Sanitaire, May-November 1992	1992	Direct/Indirect
Malawi	DHS 1997	1997	
	Malawi Population Change Survey, February 1970-January 1972	1970-1972	Direct/Indirect
	Census, 20 September-10 October 1977	1977	Indirect
	Malawi Demographic Survey, November-December 1982	1982	Indirect
	Malawi Family Formation Survey, May-June 1984	1984	Direct/Indirect
	DHS, Malawi Demographic and Health Survey, September- November 1992	1992	Direct/Indirect
Malaysia	1987 census	1987	Indirect
	Infant and child mortality rates from national life tables	1970-1989	
	Census, 24 August 1970	1970	Indirect
Mali	Malaysian Fertility And Family Survey, August-December 1974	1974	Direct
	Census, 1-6 December 1976	1976	Direct
	DHS, Enquete Demographique et de Sante au Mali, March-August 1987	1987	Direct/Indirect
Mauritania	DHS, Enquete Demographique et de Sante au Mali, November 1995 - May 1996	1995-1996	Direct/Indirect
	World Fertility Survey, 1981	1981	Direct/Indirect
	1996 Enquete Nationale sur les Indicateurs des objectifs a Mi-terme en Mauritanie	1996	Indirect

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country	Source of data	Reference year of survey	Method: Direct/indirect
	Mauritania Maternal and Child Health Survey, 1990-1991	1990-1991	Direct/Indirect
	Papchild90	1990	
Mauritius	Infant and child mortality rates from national life tables	1961-1963, 1971-1973, 1982-1994	
	WHO. Based on reported mortality data.	1957-1996	Direct
Mexico	Encuesta Nacional de Fecundidad, July 1976-March 1977	1976-1977	Direct/Indirect
	Encuesta Nacional de Prevalencia en el Usa de Metodos Anticonceptivos, September-December 1979	1979	Indirect
	Census, 4-11 June 1980	1980	Indirect
	DHS 1987	1987	Direct/Indirect
	Census, 12 March 1990	1990	Indirect
	Encuesta Nacional de la Dinamica Demografica 1992	1992	Direct/Indirect
	WHO. Based on reported mortality data.	1958-1995	Direct
Mongolia	1994 Mongolian Demographic Survey	1994	Indirect
	WHO Regional Office for the Western Pacific. Ministry of Health and Social Welfare, 25 March 1998	1998	
Morocco	Enquete Nationale sur la Fecondite et la Planification Familiale au Maroc 1979-1980	1979-1980	Direct/Indirect
	Census, 3-21 September 1982	1982	Indirect
	Planification Familiale, Fecondite et Sante Familiale au Maroc, 1983-1984	1983-1984	Indirect
	Enquete Nationale sur la Planification Familiale, la Fecondite et la Sante de la Population au Maroc (DHS) April-July 1987	1987	Direct/Indirect
	Enquete Nationale sur la Population et la Sante (DHS II) January-March 1992	1992	Direct/Indirect
	DHS, Enquete de Panel sur la Population et la Sante (EPPS) April-May 1995	1995	Direct/Indirect
	Pan Arab Project for Child development Maternal and Child Health Survey	1997	
Mozambique	Census, 15 September 1970	1970	Indirect
	Census, 1-15 August 1980	1980	Indirect
	DHS, Demographic and Health Survey 1997	1997	Direct
	Mozambique National Demographic Survey, 1991	1991	Indirect
Myanmar	Census, 31 March 1983	1983	Indirect
	Population Changes And Fertility Survey, January 1991	1991	Direct/Indirect
Namibia	DHS, Namibia Demographic and Health Survey, July-November 1992	1992	Direct/Indirect
Nepal	Census, 22 June 1971	1971	Indirect
	Nepal Fertility Survey, 1 April-20 June 1976	1976	Direct/Indirect
	Nepal Contraceptive Prevalence Survey, 27 January-22 June 1981	1981	Indirect
	Census, 22 June 1981	1981	Indirect
	Nepal Fertility And Family Planning Survey, 28 December 1985-30 April 1986	1985-1986	Indirect
	Nepal Fertility, Family Planning And Health Survey, November 1991	1991	Direct/Indirect
	DHS, Demographic and Health Survey, 1996	1996	Direct/Indirect
Nicaragua	Census, 20 April 1971	1971	Indirect
	Encuesta Retrospectiva Demografica Nacional, December 1977-February 1978	1977-1978	Indirect
	Encuesta Socio-Demografica Nicaraguense, July 1985-March 1986	1985-86	Indirect
	DHS, Encuesta Socio-Demografica Nicaraguense, November 1992-February 1993	1992-1993	Direct/Indirect
	DHS, 1998	1998	
	WHO. Based on reported mortality data.	1959-1978	Direct
Niger	DHS, Demographic and Health Survey, March-June 1992	1992	Direct/Indirect
	DHS 1998	1998	
Nigeria	Nigeria Fertility Survey, October 1981-August 1982	1981-1982	Direct/Indirect
	DHS, Demographic and Health Survey, April-October 1990	1990	Direct/Indirect
Oman	1995 Family Health Survey	1995	Direct
Pakistan	Population Growth Survey II, 1976-1978	1976-1978	Direct
	Pakistan Demographic Survey, 1984-1988	1984-1988	Direct/Indirect
	Pakistan Fertility Survey, May-December 1975	1975	Direct
	Pakistan Labour Force And Migration Survey, 1980	1980	Direct
	Census, 1 March 1981	1981	Indirect
	Pakistan Contraceptive Prevalence Survey, October 1984-March 1985	1984-1985	Indirect
	Pakistan Demographic Survey, July 1988	1988	Indirect

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country	Source of data	Reference year of survey	Method: Direct/indirect
	Living Standard Measurement Survey	1991	Direct/Indirect
	DHS. Pakistan Demographic and Health Survey, 1990	1990	Direct/Indirect
	Trends in Child Mortality, 1960-1990. Estimates for 84 developing countries, World Bank, Background Paper No 6, Appendix 1. Hill, K, and a. Yazbeck (1994)	1960-1990	Indirect
Panama	Encuesta Demografica Nacional, June 1975-February 1977	1975-1977	Direct
	Encuesta Demografica Nacional Retrospectiva, September 1976- February 1977	1976-1977	Indirect
	Encuesta Nacional de Fecundidad, December 1975-April 1976	1975-1976	Direct
	Census, 11 May 1980	1980	Indirect
	Census, 13 May 1990	1990	Indirect
	Infant and child mortality rates from national life tables	1960, 1970, 1979, 1989	Direct
	WHO. Based on reported mortality data.	1955-1987	Direct
Papua New Guinea	Census, 7 July 1971	1971	Indirect
	Census, 1 September 1980	1980	Indirect
	DHS, Demographic and Health Survey, 1991	1991	
	WHO. Based on reported mortality data.	1977	Direct
Paraguay	Census, 9 July 1972	1972	Indirect
	Encuesta Demografica Nacional, July-October 1977	1977	Indirect
	Encuesta Nacional de Fecundidad, February-May 1979	1979	Direct/Indirect
	Census, 11 July 1982	1982	Indirect
	DHS 1990	1990	Direct/Indirect
	Census, 26 August 1992	1992	Indirect
	WHO. Based on mortality data for reporting areas of Paraguay	1969-1987	Direct
Peru	Census, 4 June 1972	1972	Indirect
	Encuesta Demografica Nacional, November 1974-December 1976	1974-1976	Direct
	Encuesta Demografica Nacional Retrospectiva, April-December 1976	1976	Indirect
	Encuesta Nacional de Fecundidad, July 1977-June 1978	1977-1978	Direct/Indirect
	Census, 12 July 1981	1981	Indirect
	Encuesta Nacional de Prevalencia de Anticonceptivos, August-December 1981	1981	Indirect
	DHS, Encuesta Demografica y de Salud Familiar, September-December 1986	1986	Direct/Indirect
	DHS, Encuesta Demografica y de Salud Familiar, October 1991-March 1992	1991-1992	Direct/Indirect
	Census, July 1993	1983	Indirect
	1996 DHS	1996	Direct
	WHO. Based on reported mortality data.	1966-1983	Direct
Philippines	Census, 6 May 1970	1970	Indirect
	Philippines Fertility Survey, 27 February-18 June 1978	1978	Direct
	Census, 1 May 1980	1980	Indirect
	Philippines Demographic Survey, 1988	1988	Indirect
	DHS. Philippines National Demographic Survey, April-June 1993	1993	Direct/Indirect
	Census, 1 May 1990	1990	Indirect
	Philippines National Demographic Survey, April-June 1993	1993	Indirect
	DHS, Demographic and Health Survey, 1998	1998	
	WHO. Based on reported mortality data.	1963-1981	Direct
	WHO Regional Office for the Western Pacific	1998	
Republic of Korea	Census, 1 October 1970	1970	Indirect
	Korean National Fertility Survey, 16 September-5 December 1974	1974	Direct/Indirect
	Infant and child mortality rates from national life tables	1978-1979, 1991	
	Census, 1 October 1975	1975	Indirect
	Census, 1 November 1980	1980	Indirect
	Census, 1 November 1985	1985	Indirect
	WHO. Based on reported mortality data.	1985-1997	Direct
	WHO Regional Office for the Western Pacific	1998	
Rwanda	Enquete Demographique, 30 September 1970	1970	Indirect
	Census, 15-16 August 1978	1978	Indirect

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country	Source of data	Reference year of survey	Method: Direct/indirect	
Senegal	Enquete National sur la Fecondite, August-December 1983	1983	Direct/Indirect	
	DHS, Enquete Demographique et de Sante, June-October 1992	1992	Direct/Indirect	
	Enquete Senegalaise sur la Fecondite, April-October 1978	1978	Direct/Indirect 1and2	
	DHS, Enquete Demographique et de Sante au Senegal, April-July 1986	1986	Direct/Indirect	
	DHS, Enquete Demographique et de Sante au Senegal November, 1992-March 1993	1992-1993	Direct/Indirect	
Sierra Leone	DHS, Enquete Demographique et de Sante au Senegal November, 1997	1997	Direct	
	Pilot Census, 8-24 April 1973	1973	Indirect	
	Census, 8 December 1974	1974	Indirect	
	Census, 15 July 1985	1985	Indirect	
Singapore	Infant and child mortality rates from national life tables	1970, 1980		
	WHO. Based on reported mortality data.	1955-1997	Direct	
South Africa	DHS, Demographic and Health Survey, 1990	1990		
	DHS 1998 (preliminary report)	1998		
Sri Lanka	Infant and child mortality rates from national life tables	1964-1967, 1971, 1981		
	Census, 9 October 1971	1971	Indirect	
	World Fertility Survey Sri Lanka, August-November 1975	1975	Direct/Indirect	
	DHS. Sri Lanka Demographic and Health Survey, January-March 1987	1987	Direct/Indirect	
	WHO. Based on reported mortality data.	1950-1986	Direct	
Sudan	Census, 3 April 1973	1973	Indirect	
	Census, 1 February 1983	1983	Indirect	
	Pan Arab Project for Child development Maternal and Child Health Survey	1993		
Swaziland	Census 1966	1966	Direct	
	Census 1976	1976	Direct/Indirect	
	Census 1986	1986	Direct	
Syrian Arab Republic	Census, 23 September 1970	1970	Indirect	
	Sample Census, September 1976	1976	Indirect	
	Syria Fertility Survey, June-August 1978	1978	Direct/Indirect	
	Census, 8 September 1981	1981	Indirect	
	Syria EPI/CDD and Child Mortality Survey, September 1990	1990	Indirect	
	Infant and child mortality rates from national life tables	1981	Direct	
	Papchild1993	1993		
	Thailand	National Life Tables	1964-1965, 1974-1976, 1985-1986, 1989, 1991	Direct
Census, 1 April 1970		1970		
Survey of Population Change, July 1974-June 1976		1974-1976	Indirect	
Survey of Fertility in Thailand, April-June 1975		1975	Direct/Indirect	
Census, 1 April 1980		1980	Indirect	
Thailand Contraceptive Prevalence Survey, 25 March-10 June 1981		1981	Indirect	
Contraceptive Prevalence Survey, 1984		1984	Indirect	
Survey of Population Change, July 1985-September 1986		1985-1986	Indirect	
Thailand Demographic and Health Survey, March-June 1987		1987	Direct/Indirect	
Survey of Population Change, 1989		1989	Indirect	
Census, 1 April 1990		1990	Indirect	
WHO. Based on reported mortality data.		1955-1994	Direct	
Togo		Enquete Demographique, March-April 1971	1971	Indirect
		DHS, Enquete Demographique et de Sante au Togo, June-October 1988	1988	Direct/Indirect
Trinidad and Tobago		Infant and child mortality rates from national life tables	1960, 1970, 1980-1985	
	Trinidad And Tobago Fertility Survey, 26 March-30 June 1977	1977	Direct/Indirect	
	DHS, Trinidad And Tobago Demographic And Health Survey, May-September 1987	1987	Direct/Indirect	
	WHO. Based on reported mortality data.	1951-1994	Direct	

## Appendix B - Sources of Non-Vital Registration Data for estimating child mortality

country	Source of data	Reference year of survey	Method: Direct/indirect
Tunisia	Census, 8 May 1975	1975	Indirect
	Enquete Tunisienne sur la Fecondite, May-August 1978	1978	Direct/Indirect
	Enquete Tunisienne sur la Prevalence de la Contraception, 1983	1983	Indirect
	Census, 30 March 1984	1984	Indirect
	Enquete Demographique et de Sante en Tunisie (DHS), June-October 1988	1988	Direct/Indirect
	Enquete Nationale Demographique, 1968-1969	1968-1969	Direct
	Tunisia Maternal and Child Health Survey, 1994	1994	Direct
Turkey	Papchild95	1995	
	Turkish Demographic Survey, 1966-1967	1966-1967	Direct/Indirect
	Census, 25 October 1970	1970	Indirect
	Census, 26 October 1975	1975	Indirect
	Turkish Fertility Survey, September-October 1978	1978	Direct/Indirect
	Census, 12 October 1980	1980	Indirect
	Turkish Population and Health Survey, August-November 1983	1983	Indirect
	Census, 20 October 1985	1985	Indirect
	Turkish Population and Health Survey, August-September 1988	1988	Direct/Indirect
	DHS. Turkish Demographic and Health Survey, August-October 1993	1993	Direct/Indirect
Uganda	Census, 21 October 1990	1990	Indirect
	Turkey, State Institute of Statistics (1991) "Turkish Demographic Survey 1989" Ankara, Prime Ministry. p. 83, table 30.	1989	Indirect
	Census, 18 August 1969	1969	Indirect
	DHS, Demographic and Health Survey Uganda, September 1988-February 1989	1988-1989	Direct/Indirect
	DHS, Demographic and Health Survey Uganda, March-August 1995	1995	Direct/Indirect
United Arab Emirates	Uganda National Integrated Household Survey, 1992	1992	Indirect
	The 1991 Population and Housing Census, 1-19 January 1991	1991	Indirect
	Census, 31 December 1975	1975	Indirect
	Census, 15 December 1980	1980	Indirect
United Rep. of Tanzania	1995 Family Health Survey	1995	Direct
	Child Health Survey, March 1987-May 1988	1987-1988	Indirect
	Census, 26 August 1967	1967	Indirect
	National Demographic Survey of Tanzania, July-December 1973	1973	Indirect
Uruguay	Census, 26-27 August 1978	1978	Indirect
	Census, 28 August 1988	1988	Indirect
	DHS 1994 (KAP)	1994	Indirect
	Demographic and Health Survey, October 1991-March 1992	1991-1992	Direct/Indirect
	DHS 1996	1996	Direct
	Infant and child mortality rates from national life tables	1963-1964, 1974-1976, 1984-1986	Direct
	Census, 21 May 1975	1975	Indirect
Uzbekistan	Census, 23 October 1985	1985	Indirect
	WHO. Based on reported mortality data.	1955-1990	Direct
	DHS, Demographic and Health Survey, 1996	1996	
	Ministry of Health as quoted in DHS	1986-1995	
Venezuela	WHO. Based on reported mortality data.	1981-1993	Direct
	Encuesta Nacional De Fecundidad, March-August 1977	1977	Direct/Indirect
	Census, 20 October 1981	1981	Indirect
	Census, 21 October 1990	1990	Indirect
	Infant and child mortality rates from national life tables	1961, 1971, 1980-1982	Direct
Viet Nam	WHO. Based on reported mortality data.	1955-1994	Direct
	DHS. Viet Nam Demographic And Health Survey, May-June 1988	1988	Direct/Indirect
	Census, 31 March 1989	1989	Indirect
	Viet Nam Intercensal Demographic Survey, 1994	1994	Direct/Indirect
	DHS, Demographic and Health Survey 1997	1997	

## Appendix B - Sources of Non-Vital Registration Data for estimating child mortality

country	Source of data	Reference year of survey	Method: Direct/indirect
	WHO Regional Office for the Western Pacific. Data from government. 2 Feb. 1998	1998	
Yemen	DHS, Demographic and Health Survey, 1991-1992	1991-1992	Direct/Indirect
	DHS, Demographic and Health Survey 1997	1997	
	Pan Arab Project for Child development Maternal and Child Health Survey	1992	
Zambia	Census, 22-30 August 1969	1969	Indirect
	Sample census of population, 26 August-7 September 1974	1974	Indirect
	Census, 25 August 1980	1980	Indirect
	DHS, Demographic and Health Survey, January-May 1992	1992	Direct/Indirect
	DHS, Demographic and Health Survey, July 1996-January 1997	1996-1997	Direct/Indirect
	Census, 1990	1990	Indirect
Zimbabwe	Census, 20 March 1969	1969	Indirect
	Census, 16 August 1982	1982	Indirect
	Zimbabwe Reproductive Health Survey, July-October 1984	1984	Indirect
	Intercensal Demographic Survey - Round 1, August 1987	1987	Indirect
	DHS, Zimbabwe Demographic and Health Survey, September 1988-January 1989	1988	Direct/Indirect
	DHS, Zimbabwe Demographic and Health Survey, July-November 1994	1994	Direct/Indirect
	Census, August 1992	1992	Indirect
	Zimbabwe 1997 Inter-censal demographic survey report, Central statistical office.	1997	Indirect

## Appendix C. Review of adult mortality in Africa, data from census and survey

Country	year/period midpoint	Male s	Females	method	secondary publication	original publication
Benin	1970	0.397	0.350	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Benin, Enquête sur la fécondité au Bénin, Cotonou: Bureau Central de recensement, no date.
Benin	1978	0.251	0.221	orphanhood	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Benin, Enquête sur la fécondité au Bénin, Cotonou: \$ Bureau Central de recensement, no date
Benin	1990	0.249	0.215	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1996 Demographic and Health Survey
Benin	1993	0.253	0.205	sibling	1. Timaeus I, AIDS, 1998, 12 supp1 (s15-s27). 2. Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1996 Demographic and Health Survey
Benin	1996	0.257	0.196	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1996 Demographic and Health Survey
Botswana	1980	0.445	0.268	recent deaths	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	1. Botswana, Report on the population census 1971. Gaborone: Central statistics office, 1972. 2. Botswana, 1981 population and housing census: administrative/technical report and national statistical tables. Gaborone: the government printer, 1983.
Botswana	1981	0.426	0.281	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Botswana. 1981 population and housing census: administrative/technical report and national statistical tables. Gaborone: the government printer, 1983.
Botswana	1990	0.375	0.289	recent deaths	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Botswana, census 1991.
Burkina Faso, Nouna	1994	0.282	0.277	demographic surveillance system	Nouma, demographic surveillance areas, Burkina Faso	Nouma, demographic surveillance areas, Burkina Faso
Burkina Faso, Nouna	1997	0.310	0.268	demographic surveillance system	Nouma, demographic surveillance areas, Burkina Faso	Nouma, demographic surveillance areas, Burkina Faso
Burundi	1971	0.465	0.397	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Condé J et al, Mortality in developing countries, OECD, Paris, 1971
Burundi	1981	0.378	0.301	orphanhood	1. Timaeus I, in Democratic Change in sub-saharan Africa, 1993. 2. Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Timaeus I, Population studies 45:455-472, 1991.
Cameroon	1975	0.301	0.219	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	World Fertility Survey data tapes

## Appendix C. Review of adult mortality in Africa, data from census and survey

Country	year/period midpoint	Male 45Q15	Females 45Q15	method	secondary publication	original publication
					mortality in sub-saharan Africa, 1991)	
Cameroon	1976	0.356	0.334	recent deaths and orphanhood	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	1. Cameroon. Recensement général de la population et de l'habitat, avril 1976, tome 2. Yaoundé: Direction de la statistique et de la comptabilité nationale, 1978. 2. Cameroon, Enquête nationale sur la fécondité de Cameroun, 1978, rapport principal. Yaoundé: Direction de la statistique et de la comptabilité nationale, 1983. Cameroun, 1987 census
Cameroon	1987	0.349	0.290	recent deaths and orphanhood	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	
Central African Republic	1988	0.435	0.481	not mentioned	Timaeus I, AIDS, 1998, 12suppl (s15-s27) (referring to 1. Timaeus I, in Demographic change in sub-saharan Africa, 1993. 2. Timaeus I, in Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division; 367-391.)	not mentioned
Central African Republic	1989	0.481	0.391	sibling	Timaeus I, AIDS, 1998, 12 suppl (s15-s27)	1994/5 Demographic and Health Survey
Central African Republic	1991	0.523	0.450	sibling	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1994/5 Demographic and Health Survey
Central African Republic	1992	0.514	0.438	sibling	Timaeus I, AIDS, 1998, 12 suppl (s15-s27)	1994/5 Demographic and Health Survey
Central African Republic	1995	0.547	0.488	sibling	Timaeus I, AIDS, 1998, 12 suppl (s15-s27)	1994/5 Demographic and Health Survey
Congo	1967	0.246	0.155	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Congo, Recensement général de la population du Congo, 1974, et statistique et des études économiques, 1978.
Congo	1984	0.344	0.297	recent deaths and orphanhood	1. Timaeus I, in Democratic Change in sub-saharan Africa, 1993. 2. Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1. Congo. Recensement général de la population du Congo, 1974, tome 4. Brazzaville: Centre national de la statistique et des études économiques, 1978. 2. Congo. Recensement général de la population et de l'habitat, 1984, tome 3. Brazzaville: Bureau central de recensement.
Cote d'Ivoire	1979	0.354	0.259	multiround survey	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Ahonzo E et al., Population de la Côte d'Ivoire, Abidjan: Ministère de l'Economie et des Finances.
Gambia	1978	0.284	0.237	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Blackler JGC et al, The indirect measurement of adult mortality in Africa: Result and prospects. In African Population Conference, Dakar, 1988, vol 2, Liège: International Union for the Scientific Study of Population, 1988.



## Appendix C. Review of adult mortality in Africa, data from census and survey

Country	year/period midpoint	Male s	Females	method	secondary publication	original publication
Gambia	1978	0.227	0.188	$45Q_{15}$ orphanhood	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Blacker JGC et al, The indirect measurement of adult mortality in Africa: Result and prospects. In African Population Conference, Dakar, 1988, vol 2, Liège: International Union for the Scientific Study of Population, 1988.
Ghana	1969	0.412	0.368	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Gaisie SK, Estimating Ghanaian fertility, mortality, and age structure, Population studies, no 5. Legon: University of Ghana, 1976
Ghana	1982	0.222	0.120	orphanhood	1. Timaeus I, in Democratic Change in sub-saharan Africa, 1993. 2. Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Timaeus I, Proceedings of the Demographic and Health Survey World Conference, Washington dc, 1991 vol II. Columbia, Md: Institute for resource development/Macro International.
Ghana, ural Kassena- Nankana	1995	0.502	0.408	demographic surveillance system	Ngom P et al., The Navrongo demographic surveillance system: 1999 report to the rockefeller foundation, Navrongo Health Research Centre, documentation note number 41, June 1999	Ngom P et al., The Navrongo demographic surveillance system: 1999 report to the rockefeller foundation, Navrongo Health Rese Centre, documentation note number 41, June 1999
Ghana, ural Kassena- Nankana	1997	0.492	0.375	demographic surveillance system	Ngom P et al., The Navrongo demographic surveillance system: 1999 report to the rockefeller foundation, Navrongo Health Research Centre, documentation note number 41, June 1999	Ngom P et al., The Navrongo demographic surveillance system: 1999 report to the rockefeller foundation, Navrongo Health Rese Centre, documentation note number 41, June 1999
Kenya	1974	0.324	0.182	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Mukiza-Gapere JHG, Biases and errors in the orphanhood meth of estimating mortality: an empirical examination. Unpublished Ph. D. thesis, University of London.
Kenya	1974	0.286	0.231	orphanhood	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Mukiza-Gapere JHG, Biases and errors in the orphanhood meth of estimating mortality: an empirical examination. Unpublished Ph. D. thesis, University of London.
Kenya	1984	0.227	0.146	orphanhood	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Kenya, 1979 & 1989 census
Lesotho	1976	0.497	0.251	recent deaths and orphanhood	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Timaeus I, Mortality in Lesotho: a study of levels, trends and differentials based on retrospective survey data. WFS reports 59 Voorburg, Netherlands: International Statistical Institute, 1984.
Lesotho	1976	0.483	0.259	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Timaeus I, Mortality in Lesotho: a study of levels, trends and differentials based on retrospective survey data. WFS reports 59 Voorburg, Netherlands: International Statistical Institute, 1984.
Lesotho	1985	0.424	0.259	recent deaths and orphanhood	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Lesotho, 1986 census
Liberia	1971	0.450	0.416	multi-round survey	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Waltisperger D et al, Un bilan de 30 ans de mesures directes de mortalité adulte en Afrique. Annexes. Unpublished tables, Centre Français sur la Population et le Développement, Paris, 1988.

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Country	year/period midpoint	Male s	Females	method	secondary publication	original publication
Liberia	1971	0.439	0.381	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	WHO, World health statistics annual 1986, Geneva, 1986.
Madagascar	1975	0.513	0.449	recent deaths	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Waltisperger D et al, Un bilan de 30 ans de mesures directes de mortalité adulte en Afrique. Annexes. Unpublished tables, Centre Français sur la Population et le Développement, Paris, 1988.
Madagascar	1987	0.309	0.350	sibling	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1992 Demographic and Health Survey
Malawi	1971	0.348	0.414	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Malawi, National statistical office. National population change survey, feb1970-Jan1972. Zomba: Government printer, 1973.
Malawi	1977	0.259	0.294	orphanhood	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Timaeus I, Demography 27: 213-227, 1991.
Malawi	1986	0.270	0.328	sibling	Timaeus I, AIDS, 1998, 12 suppl (s15-s27)	1992 Demographic and Health Survey
Malawi	1989	0.326	0.348	sibling	Timaeus I, AIDS, 1998, 12 suppl (s15-s27)	1992 Demographic and Health Survey
Malawi	1989	0.338	0.351	sibling	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1992 Demographic and Health Survey
Malawi	1992	0.389	0.369	sibling	Timaeus I, AIDS, 1998, 12 suppl (s15-s27)	1992 Demographic and Health Survey
Mali	1986	0.421	0.459	recent deaths and orphanhood	1. Timaeus I, in Democratic Change in sub-saharan Africa, 1993. 2. Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1. Mali. Recensement général de la population, décembre 1976. Résultats définitifs, tome 1 Bamako. Bureau central de recensement. 2. 1986 census
Mali	1990	0.301	0.270	sibling	Timaeus I, AIDS, 1998, 12 suppl (s15-s27)	1995/96 Demographic and Health Survey
Mali	1993	0.310	0.230	sibling	Timaeus I, AIDS, 1998, 12 suppl (s15-s27)	1995/96 Demographic and Health Survey
Mali	1993	0.318	0.223	not mentioned	Timaeus I, AIDS, 1998, 12suppl (s15-s27) (referring to 1. Timaeus I, in Demographic change in sub-saharan Africa, 1993. 2. Timaeus I, in Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division; 367-391.)	not mentioned

## Appendix C. Review of adult mortality in Africa, data from census and survey

Country	year/period midpoint	Male s	Females	method	secondary publication	original publication
Mali	1996	0.319	0.194	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1995/96 Demographic and Health Survey
Mauritania	1975	0.321	0.239	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Timaeus, Adult mortality in Mauritania. In Evaluation de l'enquête nationale mauritanienne sur la fécondité. WFS scientific reports 8 Voorburg, Netherlands: International Statistical Institute.
Mauritania	1980	0.218	0.177	recent deaths and orphanhood	1. Timaeus I, in Democratic Change in sub-saharan Africa, 1993. 2. Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Timaeus, Adult mortality in Mauritania. In Evaluation de l'enquête nationale mauritanienne sur la fécondité. WFS scientific reports 8 Voorburg, Netherlands: International Statistical Institute.
Namibia	1986	0.346	0.199	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1992 Demographic and Health Survey
Namibia	1989	0.333	0.189	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1992 Demographic and Health Survey
Namibia	1992	0.320	0.179	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1992 Demographic and Health Survey
Niger	1979	0.320	0.328	not mentioned	Timaeus I, AIDS, 1998, 12supp1 (s15-s27) (referring to 1. Timaeus I, in Demographic change in sub-saharan Africa, 1993. 2. Timaeus I, in Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division; 367-391.)	not mentioned
Niger	1986	0.236	0.333	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1992 Demographic and Health Survey
Niger	1988	0.218	0.234	sibling	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1992 Demographic and Health Survey
Niger	1989	0.221	0.240	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1992 Demographic and Health Survey
Niger	1992	0.206	0.170	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1992 Demographic and Health Survey
Rwanda	1978	0.416	0.371	recent deaths	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Waltisperger D et al, Un bilan de 30 ans de mesures directes de la mortalité adulte en Afrique. Annexes. Unpublished tables, Ce Français sur la Population et le Développement, Paris, 1988.
Senegal	1978	0.337	0.279	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Canterelle P, et al., The profile of mortality and its determinants Senegal, 1960-1980. In: Determinants of mortality change and differentials in developing countries. E.85.XIII.4, pp 86-116. New York: United Nations.

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Country	year/period midpoint	Male s	Females	method	secondary publication	original publication
Senegal	1978	0.348	0.290	multiround survey	Timaeus I, in Democratic Change in sub-saharan Africa, 1993 (referring to Timaeus I, Proceedings of the DHS World Conference, Washington dc, 1991 vol II. Columbia, Md: Institute for resource development/Macro International).	Canterelle P, et al., The profile of mortality and its determinants Senegal, 1960-1980. In: Determinants of mortality change and differentials in developing countries. E.85.XIII.4, pp 86-116. New York: United Nations.
Senegal	1987	0.273	0.207	sibling	Timaeus I, AIDS, 1998, 12 suppl1 (s15-s27)	1992 Demographic and Health Survey
Senegal	1990	0.239	0.163	sibling	Timaeus I, AIDS, 1998, 12 suppl1 (s15-s27)	1992 Demographic and Health Survey
Senegal	1993	0.208	0.127	sibling	Timaeus I, AIDS, 1998, 12 suppl1 (s15-s27)	1992 Demographic and Health Survey
Senegal, Niakhar	1989	0.312	0.264	demographic surveillance system	Niakhar, demographic surveillance areas, Senegal	Niakhar, demographic surveillance areas, Senegal
Senegal, Niakhar	1993	0.281	0.228	demographic surveillance system	Niakhar, demographic surveillance areas, Senegal	Niakhar, demographic surveillance areas, Senegal
Sierra Leone	1970	0.579	0.541	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Okoye CS, Mortality levels and differentials in Sierra Leone, vo Freetown: Central statistics office, 1980.
Sierra Leone	1974	0.534	0.490	orphanhood	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Okoye CS, Mortality levels and differentials in Sierra Leone, vo Freetown: Central statistics office, 1980.
South Africa	1985	0.362	0.234	vital registration	1. Timaeus I, in Democratic Change in sub-saharan Africa, 1993. 2. Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	South Africa. South African statistics 1988. Pretoria: Central statistical service, 1988.
South Africa	1995	0.430	0.242	growth balance	-	South Africa, 1996 population census
Sudan (northern)	1975	0.182	0.188	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	World Fertility Survey data tapes
Sudan (northern)	1975	0.305	0.232	orphanhood	Timaeus I, in Democratic Change in sub-saharan Africa, 1993	Sudan, The Sudan fertility survey 1979: principal report, vol 1. Khartoum: Department of statistics, 1982.
Sudan (northern)	1991	0.227	0.203	recent deaths and orphanhood	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Sudan, 1993 census
Swaziland	1972	0.494	0.328	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and	Swaziland, Report on the 1976 Swaziland population census, vo Mbabane: Central statistical office, 1980.

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Country	year/period midpoint	Male s <sub>45Q15</sub>	Females les <sub>45Q15</sub>	method	secondary publication	original publication
					mortality in sub-saharan Africa, 1991)	
Swaziland	1981	0.431	0.227	orphanhood	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Swaziland, 1976 & 1986 census
Tanzania	1965	0.250	0.215	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Tanzania, Bureau of statistics. 1973 National demographic survey Tanzania, vol 1 Dar es Salaam, no date.
Tanzania	1988	0.226	0.233	not mentioned	Timaeus I, AIDS, 1998, 12supp1 (s15-s27) (referring to 1. Timaeus I, in Demographic change in sub-saharan Africa, 1993. 2. Timaeus I, in Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division; 367-391.)	not mentioned
Tanzania	1988	0.344	0.325	recent deaths and orphanhood	1. Timaeus I, in Democratic Change in SUB-SAHARAN AFRICA, 1993. 2. Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Tanzania. 1978 Population census, vol 5 Dar es Salaam: Bureau of statistics, 1982.
Tanzania	1990	0.232	0.229	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1996 Demographic and Health Survey
Tanzania	1993	0.296	0.243	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1996 Demographic and Health Survey
Tanzania	1993	0.311	0.245	not mentioned	Timaeus I, AIDS, 1998, 12supp1 (s15-s27) (referring to 1. Timaeus I, in Demographic change in sub-saharan Africa, 1993. 2. Timaeus I, in Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division; 367-391.)	not mentioned
Tanzania	1996	0.373	0.257	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1996 Demographic and Health Survey
Tanzania, Dar es Salaam	1994	0.470	0.460	demographic surveillance system	Policy implications of adult morbidity and mortality, end of phase one report, August 1997, UK Department for International development and Government of Republic of Tanzania.	Policy implications of adult morbidity and mortality, end of phase one report, August 1997, UK Department for International development and Government of Republic of Tanzania.
Tanzania, Hai	1994	0.370	0.270	demographic surveillance system	Policy implications of adult morbidity and mortality, end of phase one report, August 1997, UK Department for	Policy implications of adult morbidity and mortality, end of phase one report, August 1997, UK Department for International development and Government of Republic of Tanzania.

## Appendix C. Review of adult mortality in Africa, data from census and survey

Country	year/period midpoint	Male 45Q15	Females 45Q15	method	secondary publication	original publication
					International development and Government of Republic of Tanzania.	
Tanzania, Morogoro	1994	0.570	0.480	demographic surveillance system	Policy implications of adult morbidity and mortality, end of phase one report, August 1997, UK Department for International development and Government of Republic of Tanzania.	Policy implications of adult morbidity and mortality, end of phase one report, August 1997, UK Department for International development and Government of Republic of Tanzania.
Togo	1981	0.296	0.240	recent deaths	1. Timaeus I, in Democratic Change in SUB-SAHARAN AFRICA, 1993. 2. Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	Togo. Recensement général de la population et de l'habitat, 9-22 novembre 1981, tome 4. Lomé: Bureau central de recensement, 1981.
Jganda	1965	0.237	0.228	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Uganda, Ministry of planning and economic development. Report on the 1969 population census. Vol 4, Kmpala, 1976.
Jganda	1985	0.370	0.258	not mentioned	Timaeus I, AIDS, 1998, 12supp1 (s15-s27) (referring to 1. Timaeus I, in Demographic change in sub-saharan Africa, 1993. 2. Timaeus I, in Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division; 367-391.)	not mentioned
Jganda	1989	0.365	0.282	sibling	Timaeus I, AIDS, 1998, 12supp1 (s15-s27)	1995 Demographic and Health Survey
Jganda	1992	0.451	0.404	sibling	Timaeus I, AIDS, 1998, 12supp1 (s15-s27)	1995 Demographic and Health Survey
Jganda	1992	0.470	0.440	sibling	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1995 Demographic and Health Survey
Jganda	1995	0.547	0.556	sibling	Timaeus I, AIDS, 1998, 12supp1 (s15-s27)	1995 Demographic and Health Survey
Zambia	1991	0.386	0.355	sibling	Timaeus I, AIDS, 1998, 12supp1 (s15-s27)	1996 Demographic and Health Survey
Zambia	1993	0.570	0.454	sibling	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1996 Demographic and Health Survey
Zambia	1994	0.525	0.437	sibling	Timaeus I, AIDS, 1998, 12supp1 (s15-s27)	1996 Demographic and Health Survey

## Appendix C. Review of adult mortality in Africa, data from census and survey

Country	year/period midpoint	Male s	Females	method	secondary publication	original publication
Zambia	1997	0.678	0.530	45Q <sub>15</sub> 45Q <sub>15</sub> sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1996 Demographic and Health Survey
Zimbabwe	1975	0.262	0.157	formula using life expectancy at 15	Murray C et al., in The health of adults in the developing world, 1992. (referring to Timaeus I, in Disease and mortality in sub-saharan Africa, 1991)	Zimbabwe. Main demographic features of the population of Zimbabwe. Harare. Central statistics office.
Zimbabwe	1978	0.199	0.137	orphanhood	Timaeus I, in Democratic Change in SUB-SAHARAN AFRICA, 1993	Zimbabwe. Main demographic features of the population of Zimbabwe. Harare. Central statistics office.
Zimbabwe	1979	0.248	0.183	not mentioned	Timaeus I, AIDS, 1998, 12supp1 (s15-s27) (referring to 1. Timaeus I, in Demographic change in sub-saharan Africa, 1993. 2. Timaeus I, in Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division; 367-391.)	not mentioned
Zimbabwe	1982	0.310	0.296	intercensal survivors	Hill, personal communication	Zimbabwe, 1982 census
Zimbabwe	1988	0.176	0.146	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1994 Demographic and Health Survey
Zimbabwe	1990	0.282	0.345	growth balance	-	WHO Mortality database
Zimbabwe	1991	0.306	0.220	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1994 Demographic and Health Survey
Zimbabwe	1992	0.369	0.270	vital registration	-	Feeney, personal communication
Zimbabwe	1992	0.419	0.325	sibling	Timaeus I, Symposium on health and mortality, Brussels, Belgium, 19-22 November 1997. New York, UN Population Division.	1994 Demographic and Health Survey
Zimbabwe	1993	0.397	0.292	vital registration	-	Feeney, personal communication
Zimbabwe	1993	0.411	0.301	household	-	Feeney, personal communication
Zimbabwe	1994	0.498	0.324	sibling	Timaeus I, AIDS, 1998, 12 supp1 (s15-s27)	1994 Demographic and Health Survey
Zimbabwe	1996	0.553	0.417	vital registration	-	Feeney, personal communication
Zimbabwe	1998	0.651	0.503	household	-	Feeney, personal communication

## Appendix D

Life tables for 1999, WHO Member States

### WHO LIFE TABLE FOR 1999: AFGHANISTAN

#### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.3076	0.2409	100,000	45.05
1	0.0128	0.0498	75,912	58.32
5	0.0030	0.0147	72,130	57.29
10	0.0023	0.0117	71,069	53.11
15	0.0027	0.0134	70,240	48.71
20	0.0029	0.0146	69,300	44.33
25	0.0038	0.0186	68,290	39.95
30	0.0048	0.0235	67,021	35.66
35	0.0067	0.0329	65,444	31.46
40	0.0085	0.0415	63,289	27.45
45	0.0119	0.0579	60,665	23.53
50	0.0189	0.0902	57,153	19.82
55	0.0254	0.1193	51,999	16.53
60	0.0416	0.1886	45,796	13.43
65	0.0547	0.2405	37,160	10.98
70	0.0828	0.3429	28,224	8.66
75	0.1144	0.4449	18,546	6.87
80	0.1589	0.5686	10,294	5.38
85	0.2396	1	4,441	4.17

#### Females

0	0.2438	0.2000	100,000	47.45
1	0.0159	0.0611	80,004	58.28
5	0.0028	0.0140	75,116	57.97
10	0.0022	0.0110	74,061	53.76
15	0.0027	0.0132	73,244	49.33
20	0.0029	0.0146	72,277	44.96
25	0.0038	0.0189	71,219	40.59
30	0.0041	0.0204	69,870	36.32
35	0.0061	0.0302	68,445	32.03
40	0.0069	0.0341	66,379	27.95
45	0.0109	0.0528	64,113	23.85
50	0.0180	0.0860	60,725	20.04
55	0.0233	0.1101	55,505	16.69
60	0.0391	0.1781	49,395	13.44
65	0.0529	0.2335	40,597	10.81
70	0.0817	0.3393	31,118	8.35
75	0.1243	0.4743	20,558	6.35
80	0.1819	0.6252	10,808	4.83
85	0.2698	1	4,051	3.71



## WHO LIFE TABLE FOR 1999: ALBANIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0462	0.0444	100,000	65.13
1	0.0044	0.0175	95,565	67.14
5	0.0010	0.0050	93,892	64.31
10	0.0009	0.0042	93,422	59.62
15	0.0014	0.0070	93,025	54.87
20	0.0027	0.0132	92,369	50.24
25	0.0027	0.0132	91,148	45.88
30	0.0022	0.0109	89,942	41.46
35	0.0023	0.0116	88,957	36.89
40	0.0032	0.0158	87,921	32.30
45	0.0040	0.0197	86,533	27.77
50	0.0073	0.0356	84,827	23.28
55	0.0127	0.0614	81,805	19.05
60	0.0254	0.1194	76,786	15.13
65	0.0331	0.1528	67,617	11.84
70	0.0750	0.3157	57,283	8.53
75	0.1100	0.4315	39,201	6.31
80	0.2094	0.6872	22,286	4.20
85	0.3397	1	6,970	2.94

### Females

0	0.0355	0.0344	100,000	72.68
1	0.0039	0.0153	96,560	74.27
5	0.0006	0.0032	95,084	71.39
10	0.0005	0.0024	94,780	66.62
15	0.0005	0.0027	94,551	61.77
20	0.0008	0.0041	94,300	56.93
25	0.0007	0.0036	93,914	52.15
30	0.0010	0.0052	93,573	47.33
35	0.0010	0.0052	93,086	42.57
40	0.0017	0.0084	92,599	37.78
45	0.0020	0.0099	91,820	33.08
50	0.0041	0.0201	90,909	28.38
55	0.0055	0.0273	89,082	23.92
60	0.0107	0.0523	86,649	19.52
65	0.0173	0.0830	82,115	15.46
70	0.0352	0.1618	75,296	11.63
75	0.0626	0.2708	63,111	8.39
80	0.1374	0.5112	46,023	5.58
85	0.2631	1	22,496	3.80

## WHO LIFE TABLE FOR 1999: ALGERIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0408	0.0393	100,000	67.97
1	0.0029	0.0115	96,069	69.75
5	0.0007	0.0036	94,967	66.54
10	0.0006	0.0029	94,629	61.77
15	0.0007	0.0034	94,355	56.94
20	0.0008	0.0038	94,035	52.12
25	0.0010	0.0050	93,679	47.31
30	0.0013	0.0065	93,213	42.54
35	0.0019	0.0096	92,603	37.80
40	0.0026	0.0129	91,711	33.14
45	0.0039	0.0195	90,529	28.54
50	0.0069	0.0341	88,764	24.06
55	0.0107	0.0522	85,735	19.82
60	0.0202	0.0959	81,261	15.78
65	0.0326	0.1509	73,464	12.18
70	0.0663	0.2842	62,381	8.90
75	0.1098	0.4307	44,649	6.45
80	0.1931	0.6511	25,419	4.44
85	0.3281	1	8,869	3.05

### Females

0	0.0356	0.0345	100,000	69.00
1	0.0035	0.0139	96,548	70.46
5	0.0007	0.0033	95,210	67.43
10	0.0005	0.0027	94,893	62.65
15	0.0007	0.0033	94,640	57.81
20	0.0007	0.0037	94,332	52.99
25	0.0010	0.0049	93,984	48.18
30	0.0011	0.0054	93,523	43.40
35	0.0017	0.0084	93,015	38.63
40	0.0020	0.0099	92,237	33.93
45	0.0033	0.0163	91,324	29.24
50	0.0060	0.0293	89,833	24.69
55	0.0087	0.0424	87,198	20.36
60	0.0182	0.0869	83,497	16.15
65	0.0306	0.1420	76,240	12.45
70	0.0631	0.2725	65,417	9.10
75	0.1067	0.4212	47,593	6.57
80	0.1872	0.6377	27,546	4.52
85	0.3239	1	9,981	3.09

**WHO LIFE TABLE FOR 1999: ANDORRA**

<b>Males</b>				
x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0042	0.0041	100,000	75.35
1	0.0003	0.0011	99,585	74.67
5	0.0002	0.0009	99,478	70.75
10	0.0002	0.0010	99,387	65.81
15	0.0006	0.0029	99,288	60.87
20	0.0010	0.0048	98,997	56.04
25	0.0015	0.0076	98,525	51.30
30	0.0023	0.0112	97,772	46.68
35	0.0022	0.0110	96,674	42.18
40	0.0025	0.0123	95,609	37.62
45	0.0037	0.0184	94,436	33.06
50	0.0054	0.0265	92,701	28.63
55	0.0086	0.0420	90,245	24.34
60	0.0133	0.0644	86,458	20.29
65	0.0207	0.0986	80,891	16.52
70	0.0339	0.1564	72,917	13.05
75	0.0545	0.2398	61,509	10.01
80	0.0956	0.3857	46,760	7.38
85	0.1838	1	28,725	5.44
<b>Females</b>				
0	0.0040	0.0040	100,000	82.19
1	0.0003	0.0011	99,598	81.52
5	0.0001	0.0007	99,492	77.60
10	0.0002	0.0008	99,418	72.66
15	0.0002	0.0012	99,337	67.72
20	0.0003	0.0017	99,215	62.80
25	0.0005	0.0026	99,049	57.90
30	0.0007	0.0037	98,796	53.04
35	0.0009	0.0045	98,435	48.22
40	0.0011	0.0056	97,994	43.43
45	0.0016	0.0078	97,442	38.66
50	0.0023	0.0115	96,686	33.95
55	0.0034	0.0170	95,577	29.31
60	0.0053	0.0263	93,954	24.77
65	0.0089	0.0437	91,479	20.38
70	0.0160	0.0769	87,481	16.19
75	0.0310	0.1437	80,750	12.33
80	0.0618	0.2677	69,150	8.98
85	0.1574	1	50,641	6.35

## WHO LIFE TABLE FOR 1999: ANGOLA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1446	0.1313	100,000	46.29
1	0.0236	0.0895	86,868	52.24
5	0.0062	0.0307	79,095	53.22
10	0.0040	0.0196	76,667	49.82
15	0.0053	0.0262	75,167	45.77
20	0.0073	0.0359	73,195	41.93
25	0.0097	0.0474	70,567	38.40
30	0.0113	0.0548	67,223	35.19
35	0.0126	0.0610	63,536	32.08
40	0.0136	0.0659	59,662	29.01
45	0.0148	0.0714	55,732	25.87
50	0.0165	0.0794	51,753	22.67
55	0.0202	0.0960	47,645	19.41
60	0.0271	0.1270	43,072	16.21
65	0.0391	0.1778	37,604	13.20
70	0.0584	0.2535	30,918	10.52
75	0.0829	0.3399	23,080	8.28
80	0.1200	0.4532	15,236	6.34
85	0.2135	1	8,331	4.68

### Females

0	0.1323	0.1211	100,000	49.14
1	0.0211	0.0802	87,892	54.87
5	0.0059	0.0289	80,848	55.51
10	0.0037	0.0185	78,515	52.09
15	0.0049	0.0242	77,066	48.02
20	0.0069	0.0340	75,199	44.15
25	0.0096	0.0469	72,640	40.62
30	0.0111	0.0539	69,230	37.50
35	0.0111	0.0541	65,496	34.49
40	0.0112	0.0546	61,950	31.32
45	0.0109	0.0528	58,567	27.99
50	0.0124	0.0602	55,472	24.41
55	0.0157	0.0756	52,131	20.81
60	0.0223	0.1058	48,189	17.31
65	0.0324	0.1498	43,093	14.06
70	0.0504	0.2228	36,639	11.11
75	0.0759	0.3159	28,475	8.60
80	0.1122	0.4305	19,480	6.49
85	0.2146	1	11,095	4.66

## WHO LIFE TABLE FOR 1999: ANTIGUA AND BARBUDA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0180	0.0177	100,000	71.36
1	0.0010	0.0040	98,234	71.64
5	0.0004	0.0018	97,844	67.92
10	0.0004	0.0020	97,671	63.04
15	0.0013	0.0063	97,473	58.16
20	0.0021	0.0103	96,864	53.51
25	0.0023	0.0113	95,870	49.04
30	0.0026	0.0127	94,783	44.57
35	0.0030	0.0150	93,577	40.11
40	0.0036	0.0179	92,176	35.69
45	0.0049	0.0244	90,525	31.29
50	0.0073	0.0359	88,318	27.01
55	0.0110	0.0536	85,149	22.92
60	0.0173	0.0830	80,589	19.08
65	0.0253	0.1188	73,904	15.58
70	0.0400	0.1817	65,125	12.34
75	0.0619	0.2681	53,294	9.53
80	0.1039	0.4122	39,008	7.10
85	0.1879	1	22,927	5.32

### Females

0	0.0166	0.0163	100,000	76.80
1	0.0010	0.0040	98,369	77.08
5	0.0003	0.0015	97,973	73.38
10	0.0003	0.0015	97,827	68.49
15	0.0005	0.0025	97,684	63.58
20	0.0006	0.0031	97,439	58.74
25	0.0007	0.0037	97,132	53.92
30	0.0010	0.0049	96,772	49.11
35	0.0014	0.0070	96,295	44.34
40	0.0020	0.0099	95,622	39.63
45	0.0030	0.0148	94,679	35.00
50	0.0047	0.0232	93,274	30.49
55	0.0072	0.0352	91,107	26.16
60	0.0114	0.0554	87,901	22.02
65	0.0167	0.0803	83,028	18.17
70	0.0265	0.1243	76,361	14.53
75	0.0434	0.1956	66,868	11.24
80	0.0787	0.3287	53,791	8.37
85	0.1603	1	36,109	6.24

## WHO LIFE TABLE FOR 1999: ARGENTINA

### Males

$x$	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0207	0.0203	100,000	70.61
1	0.0008	0.0032	97,969	71.07
5	0.0003	0.0014	97,652	67.30
10	0.0003	0.0017	97,511	62.39
15	0.0009	0.0044	97,343	57.49
20	0.0014	0.0068	96,916	52.74
25	0.0017	0.0084	96,257	48.08
30	0.0019	0.0093	95,452	43.46
35	0.0024	0.0118	94,566	38.85
40	0.0033	0.0165	93,448	34.28
45	0.0055	0.0270	91,905	29.82
50	0.0088	0.0431	89,421	25.58
55	0.0134	0.0650	85,562	21.62
60	0.0208	0.0989	80,004	17.94
65	0.0311	0.1445	72,089	14.64
70	0.0457	0.2050	61,676	11.69
75	0.0676	0.2890	49,034	9.06
80	0.1161	0.4498	34,865	6.72
85	0.1932	1	19,183	5.18

### Females

0	0.0171	0.0168	100,000	77.79
1	0.0007	0.0027	98,320	78.12
5	0.0002	0.0011	98,049	74.33
10	0.0002	0.0012	97,941	69.41
15	0.0004	0.0022	97,824	64.49
20	0.0006	0.0028	97,610	59.62
25	0.0007	0.0037	97,332	54.79
30	0.0010	0.0047	96,972	49.98
35	0.0013	0.0064	96,512	45.21
40	0.0019	0.0095	95,892	40.48
45	0.0028	0.0141	94,986	35.85
50	0.0044	0.0216	93,644	31.32
55	0.0063	0.0309	91,617	26.96
60	0.0092	0.0450	88,784	22.74
65	0.0145	0.0700	84,786	18.70
70	0.0233	0.1099	78,848	14.92
75	0.0379	0.1732	70,182	11.45
80	0.0785	0.3279	58,027	8.32
85	0.1622	1	38,997	6.16

## WHO LIFE TABLE FOR 1999: ARMENIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0161	0.0158	100,000	72.05
1	0.0008	0.0032	98,417	72.21
5	0.0002	0.0012	98,105	68.43
10	0.0002	0.0011	97,985	63.51
15	0.0009	0.0046	97,873	58.58
20	0.0010	0.0052	97,426	53.84
25	0.0010	0.0048	96,920	49.11
30	0.0016	0.0078	96,458	44.33
35	0.0021	0.0106	95,704	39.66
40	0.0035	0.0175	94,685	35.06
45	0.0053	0.0260	93,031	30.64
50	0.0076	0.0374	90,611	26.39
55	0.0133	0.0645	87,220	22.32
60	0.0221	0.1047	81,598	18.69
65	0.0343	0.1580	73,052	15.58
70	0.0464	0.2078	61,507	13.04
75	0.0638	0.2751	48,725	10.80
80	0.0797	0.3322	35,322	8.95
85	0.1397	1	23,587	7.16

### Females

0	0.0132	0.0130	100,000	77.35
1	0.0008	0.0034	98,695	77.37
5	0.0002	0.0008	98,363	73.63
10	0.0001	0.0006	98,285	68.68
15	0.0002	0.0011	98,225	63.72
20	0.0004	0.0019	98,113	58.79
25	0.0005	0.0024	97,930	53.90
30	0.0006	0.0032	97,695	49.02
35	0.0009	0.0047	97,384	44.17
40	0.0014	0.0068	96,929	39.37
45	0.0024	0.0118	96,266	34.62
50	0.0034	0.0171	95,128	30.00
55	0.0070	0.0344	93,502	25.48
60	0.0110	0.0534	90,283	21.30
65	0.0195	0.0928	85,460	17.36
70	0.0331	0.1529	77,528	13.88
75	0.0537	0.2367	65,673	10.94
80	0.0763	0.3202	50,128	8.56
85	0.1560	1	34,075	6.41

## WHO LIFE TABLE FOR 1999: AUSTRALIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0054	0.0053	100,000	76.80
1	0.0003	0.0014	99,466	76.21
5	0.0001	0.0007	99,330	72.32
10	0.0002	0.0009	99,257	67.37
15	0.0007	0.0033	99,172	62.42
20	0.0011	0.0055	98,848	57.62
25	0.0011	0.0054	98,307	52.92
30	0.0012	0.0062	97,775	48.20
35	0.0014	0.0070	97,172	43.48
40	0.0017	0.0083	96,496	38.77
45	0.0023	0.0117	95,697	34.07
50	0.0038	0.0189	94,580	29.44
55	0.0065	0.0321	92,791	24.96
60	0.0115	0.0560	89,816	20.71
65	0.0197	0.0940	84,787	16.79
70	0.0325	0.1505	76,819	13.27
75	0.0531	0.2343	65,259	10.18
80	0.0918	0.3732	49,972	7.53
85	0.1812	1	31,321	5.52

### Females

0	0.0043	0.0043	100,000	82.20
1	0.0003	0.0010	99,569	81.55
5	0.0001	0.0006	99,465	77.64
10	0.0001	0.0007	99,401	72.69
15	0.0003	0.0015	99,327	67.74
20	0.0004	0.0018	99,179	62.84
25	0.0004	0.0018	99,006	57.94
30	0.0005	0.0025	98,831	53.04
35	0.0006	0.0031	98,581	48.17
40	0.0009	0.0047	98,278	43.31
45	0.0015	0.0074	97,818	38.50
50	0.0025	0.0125	97,091	33.77
55	0.0038	0.0190	95,881	29.17
60	0.0064	0.0313	94,056	24.68
65	0.0106	0.0519	91,110	20.40
70	0.0180	0.0861	86,385	16.38
75	0.0325	0.1505	78,944	12.69
80	0.0591	0.2576	67,063	9.49
85	0.1446	1	49,790	6.92



## WHO LIFE TABLE FOR 1999: AUSTRIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0047	0.0046	100,000	74.37
1	0.0003	0.0010	99,536	73.72
5	0.0001	0.0006	99,433	69.79
10	0.0001	0.0007	99,373	64.83
15	0.0007	0.0036	99,305	59.87
20	0.0010	0.0051	98,951	55.08
25	0.0009	0.0044	98,448	50.35
30	0.0009	0.0047	98,018	45.56
35	0.0015	0.0074	97,559	40.76
40	0.0023	0.0113	96,835	36.05
45	0.0040	0.0200	95,744	31.43
50	0.0068	0.0334	93,830	27.02
55	0.0100	0.0486	90,701	22.86
60	0.0150	0.0721	86,297	18.90
65	0.0277	0.1297	80,078	15.18
70	0.0415	0.1882	69,692	12.07
75	0.0656	0.2818	56,576	9.29
80	0.1094	0.4295	40,632	6.95
85	0.1888	1	23,180	5.30

### Females

0	0.0046	0.0046	100,000	80.38
1	0.0003	0.0011	99,539	79.75
5	0.0001	0.0007	99,429	75.84
10	0.0001	0.0006	99,356	70.89
15	0.0003	0.0014	99,299	65.93
20	0.0003	0.0015	99,165	61.02
25	0.0003	0.0015	99,016	56.10
30	0.0005	0.0023	98,869	51.18
35	0.0008	0.0037	98,638	46.30
40	0.0013	0.0063	98,268	41.46
45	0.0020	0.0101	97,649	36.71
50	0.0033	0.0166	96,662	32.06
55	0.0049	0.0240	95,062	27.56
60	0.0071	0.0351	92,776	23.17
65	0.0116	0.0565	89,523	18.92
70	0.0210	0.0998	84,467	14.91
75	0.0375	0.1715	76,041	11.28
80	0.0776	0.3249	63,001	8.10
85	0.1726	1	42,532	5.80

## WHO LIFE TABLE FOR 1999: AZERBAIJAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0184	0.0181	100,000	67.77
1	0.0036	0.0144	98,192	68.01
5	0.0007	0.0034	96,778	64.98
10	0.0005	0.0024	96,453	60.20
15	0.0009	0.0044	96,223	55.33
20	0.0017	0.0084	95,798	50.57
25	0.0016	0.0077	94,990	45.98
30	0.0023	0.0115	94,254	41.32
35	0.0030	0.0151	93,170	36.77
40	0.0051	0.0252	91,762	32.29
45	0.0079	0.0390	89,451	28.06
50	0.0111	0.0541	85,966	24.10
55	0.0152	0.0732	81,319	20.33
60	0.0278	0.1298	75,370	16.74
65	0.0404	0.1837	65,584	13.87
70	0.0637	0.2749	53,539	11.42
75	0.0820	0.3403	38,823	9.81
80	0.0866	0.3559	25,612	8.57
85	0.1443	1	16,496	6.93

### Females

0	0.0143	0.0141	100,000	75.28
1	0.0028	0.0111	98,592	75.36
5	0.0005	0.0025	97,499	72.18
10	0.0003	0.0013	97,254	67.36
15	0.0004	0.0022	97,125	62.44
20	0.0007	0.0035	96,911	57.58
25	0.0009	0.0044	96,572	52.77
30	0.0009	0.0047	96,146	47.99
35	0.0013	0.0065	95,698	43.21
40	0.0020	0.0099	95,072	38.47
45	0.0033	0.0162	94,132	33.83
50	0.0043	0.0214	92,609	29.35
55	0.0075	0.0370	90,628	24.94
60	0.0151	0.0727	87,272	20.80
65	0.0239	0.1126	80,928	17.23
70	0.0380	0.1735	71,816	14.10
75	0.0552	0.2423	59,357	11.54
80	0.0702	0.2984	44,972	9.43
85	0.1356	1	31,551	7.38

## WHO LIFE TABLE FOR 1999: BAHAMAS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0192	0.0189	100,000	67.00
1	0.0012	0.0048	98,113	67.29
5	0.0004	0.0022	97,642	63.61
10	0.0005	0.0025	97,430	58.74
15	0.0016	0.0079	97,185	53.88
20	0.0027	0.0133	96,418	49.29
25	0.0030	0.0151	95,133	44.92
30	0.0035	0.0174	93,695	40.57
35	0.0042	0.0209	92,066	36.25
40	0.0051	0.0254	90,146	31.96
45	0.0072	0.0351	87,857	27.73
50	0.0108	0.0524	84,771	23.65
55	0.0164	0.0789	80,332	19.82
60	0.0260	0.1221	73,995	16.30
65	0.0377	0.1723	64,961	13.22
70	0.0582	0.2539	53,768	10.45
75	0.0864	0.3553	40,118	8.16
80	0.1270	0.4820	25,863	6.28
85	0.2084	1	13,396	4.80

### Females

0	0.0170	0.0168	100,000	73.64
1	0.0012	0.0046	98,322	73.89
5	0.0003	0.0017	97,867	70.23
10	0.0003	0.0017	97,696	65.35
15	0.0006	0.0030	97,529	60.46
20	0.0008	0.0038	97,239	55.63
25	0.0009	0.0045	96,871	50.83
30	0.0012	0.0061	96,436	46.05
35	0.0018	0.0087	95,851	41.32
40	0.0025	0.0125	95,014	36.66
45	0.0039	0.0192	93,824	32.09
50	0.0063	0.0308	92,020	27.67
55	0.0098	0.0476	89,188	23.47
60	0.0167	0.0800	84,940	19.52
65	0.0248	0.1168	78,145	16.00
70	0.0394	0.1791	69,020	12.78
75	0.0604	0.2623	56,655	10.03
80	0.0919	0.3738	41,794	7.70
85	0.1722	1	26,173	5.81

## WHO LIFE TABLE FOR 1999: BAHRAIN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0196	0.0193	100,000	70.36
1	0.0009	0.0036	98,072	70.74
5	0.0006	0.0028	97,722	66.98
10	0.0005	0.0024	97,444	62.17
15	0.0009	0.0043	97,207	57.31
20	0.0009	0.0043	96,787	52.55
25	0.0008	0.0040	96,366	47.77
30	0.0010	0.0049	95,976	42.95
35	0.0013	0.0065	95,503	38.15
40	0.0019	0.0094	94,884	33.39
45	0.0037	0.0184	93,988	28.68
50	0.0074	0.0362	92,263	24.17
55	0.0116	0.0565	88,926	19.98
60	0.0229	0.1083	83,906	16.03
65	0.0342	0.1577	74,820	12.67
70	0.0600	0.2607	63,023	9.58
75	0.1001	0.4005	46,592	7.07
80	0.1619	0.5761	27,934	5.13
85	0.2702	1	11,840	3.70

### Females

0	0.0175	0.0172	100,000	73.41
1	0.0008	0.0031	98,280	73.69
5	0.0004	0.0018	97,980	69.91
10	0.0003	0.0015	97,804	65.04
15	0.0003	0.0015	97,661	60.13
20	0.0003	0.0015	97,515	55.21
25	0.0005	0.0026	97,364	50.30
30	0.0005	0.0026	97,114	45.42
35	0.0010	0.0049	96,862	40.53
40	0.0014	0.0072	96,384	35.72
45	0.0027	0.0134	95,691	30.96
50	0.0055	0.0273	94,408	26.35
55	0.0085	0.0414	91,828	22.02
60	0.0170	0.0817	88,022	17.86
65	0.0249	0.1171	80,830	14.23
70	0.0465	0.2083	71,367	10.78
75	0.0814	0.3381	56,504	7.96
80	0.1374	0.5113	37,403	5.75
85	0.2410	1	18,279	4.15

## WHO LIFE TABLE FOR 1999: BANGLADESH

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0845	0.0786	100,000	57.38
1	0.0094	0.0369	92,143	61.27
5	0.0025	0.0124	88,747	59.55
10	0.0015	0.0075	87,648	55.26
15	0.0019	0.0092	86,987	50.67
20	0.0026	0.0130	86,186	46.11
25	0.0032	0.0159	85,067	41.69
30	0.0039	0.0191	83,715	37.32
35	0.0047	0.0233	82,114	33.00
40	0.0071	0.0346	80,201	28.73
45	0.0102	0.0498	77,423	24.67
50	0.0158	0.0758	73,570	20.83
55	0.0221	0.1049	67,994	17.33
60	0.0358	0.1643	60,865	14.07
65	0.0508	0.2255	50,865	11.34
70	0.0755	0.3174	39,393	8.92
75	0.1116	0.4362	26,888	6.90
80	0.1607	0.5731	15,160	5.31
85	0.2455	1	6,472	4.07

### Females

0	0.0767	0.0717	100,000	57.95
1	0.0122	0.0473	92,826	61.43
5	0.0033	0.0165	88,433	60.40
10	0.0017	0.0086	86,971	56.37
15	0.0026	0.0130	86,224	51.84
20	0.0036	0.0177	85,103	47.49
25	0.0034	0.0170	83,601	43.30
30	0.0037	0.0182	82,181	39.00
35	0.0039	0.0193	80,686	34.68
40	0.0052	0.0257	79,128	30.31
45	0.0073	0.0357	77,094	26.05
50	0.0125	0.0604	74,343	21.92
55	0.0179	0.0856	69,854	18.16
60	0.0307	0.1427	63,875	14.63
65	0.0444	0.1997	54,761	11.65
70	0.0726	0.3073	43,825	8.93
75	0.1111	0.4348	30,359	6.78
80	0.1675	0.5902	17,158	5.08
85	0.2632	1	7,031	3.80

## WHO LIFE TABLE FOR 1999: BARBADOS

### Males

$x$	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0107	0.0106	100,000	72.74
1	0.0002	0.0009	98,941	72.52
5	0.0002	0.0012	98,856	68.58
10	0.0001	0.0004	98,734	63.66
15	0.0012	0.0060	98,696	58.68
20	0.0008	0.0038	98,100	54.02
25	0.0024	0.0121	97,728	49.22
30	0.0025	0.0124	96,542	44.80
35	0.0019	0.0096	95,346	40.33
40	0.0027	0.0134	94,435	35.69
45	0.0059	0.0289	93,170	31.14
50	0.0073	0.0358	90,478	26.99
55	0.0123	0.0595	87,241	22.90
60	0.0153	0.0735	82,048	19.19
65	0.0260	0.1221	76,016	15.52
70	0.0434	0.1959	66,738	12.33
75	0.0646	0.2782	53,664	9.72
80	0.0954	0.3852	38,732	7.51
85	0.1772	1	23,813	5.64

### Females

0	0.0089	0.0088	100,000	77.80
1	0.0004	0.0014	99,121	77.49
5	0.0001	0.0003	98,978	73.60
10	0.0001	0.0007	98,944	68.62
15	0.0005	0.0024	98,878	63.67
20	0.0006	0.0028	98,637	58.81
25	0.0005	0.0023	98,364	53.97
30	0.0010	0.0049	98,134	49.09
35	0.0015	0.0076	97,652	44.32
40	0.0018	0.0090	96,907	39.64
45	0.0037	0.0181	96,032	34.98
50	0.0047	0.0230	94,294	30.58
55	0.0050	0.0245	92,126	26.24
60	0.0106	0.0517	89,872	21.84
65	0.0160	0.0767	85,228	17.89
70	0.0273	0.1279	78,687	14.17
75	0.0500	0.2222	68,626	10.88
80	0.0788	0.3290	53,379	8.27
85	0.1638	1	35,815	6.11

## WHO LIFE TABLE FOR 1999: BELARUS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0131	0.0129	100,000	62.37
1	0.0008	0.0033	98,707	62.19
5	0.0004	0.0021	98,380	58.39
10	0.0004	0.0018	98,170	53.51
15	0.0012	0.0058	97,990	48.60
20	0.0027	0.0136	97,422	43.87
25	0.0036	0.0178	96,096	39.44
30	0.0049	0.0241	94,388	35.11
35	0.0063	0.0311	92,112	30.91
40	0.0094	0.0462	89,251	26.83
45	0.0144	0.0697	85,131	23.00
50	0.0213	0.1009	79,196	19.54
55	0.0302	0.1404	71,204	16.45
60	0.0407	0.1849	61,205	13.73
65	0.0565	0.2477	49,891	11.28
70	0.0756	0.3179	37,535	9.17
75	0.1022	0.4071	25,604	7.27
80	0.1563	0.5618	15,180	5.55
85	0.2240	1	6,651	4.47

### Females

0	0.0084	0.0083	100,000	74.54
1	0.0006	0.0023	99,166	74.17
5	0.0002	0.0012	98,938	70.34
10	0.0002	0.0012	98,824	65.41
15	0.0005	0.0024	98,702	60.49
20	0.0005	0.0027	98,470	55.63
25	0.0008	0.0040	98,203	50.77
30	0.0010	0.0049	97,815	45.97
35	0.0016	0.0078	97,332	41.18
40	0.0024	0.0121	96,570	36.49
45	0.0040	0.0199	95,403	31.90
50	0.0063	0.0310	93,503	27.50
55	0.0097	0.0474	90,602	23.30
60	0.0143	0.0692	86,307	19.33
65	0.0223	0.1056	80,336	15.59
70	0.0376	0.1717	71,853	12.13
75	0.0640	0.2757	59,514	9.13
80	0.1101	0.4318	43,105	6.65
85	0.2081	1	24,493	4.80

## WHO LIFE TABLE FOR 1999: BELGIUM

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0076	0.0075	100,000	74.51
1	0.0004	0.0014	99,245	74.08
5	0.0001	0.0007	99,105	70.18
10	0.0002	0.0010	99,036	65.23
15	0.0007	0.0037	98,938	60.29
20	0.0013	0.0063	98,571	55.51
25	0.0011	0.0053	97,949	50.84
30	0.0012	0.0057	97,426	46.10
35	0.0016	0.0079	96,866	41.36
40	0.0024	0.0119	96,097	36.67
45	0.0036	0.0176	94,956	32.08
50	0.0056	0.0275	93,282	27.61
55	0.0085	0.0417	90,721	23.32
60	0.0139	0.0671	86,941	19.22
65	0.0234	0.1108	81,108	15.42
70	0.0398	0.1811	72,125	12.03
75	0.0651	0.2800	59,065	9.14
80	0.1088	0.4276	42,527	6.73
85	0.2048	1	24,344	4.88

### Females

0	0.0052	0.0051	100,000	81.26
1	0.0002	0.0008	99,486	80.68
5	0.0001	0.0006	99,409	76.74
10	0.0001	0.0006	99,353	71.78
15	0.0003	0.0015	99,289	66.82
20	0.0003	0.0016	99,145	61.92
25	0.0004	0.0019	98,983	57.01
30	0.0005	0.0025	98,794	52.12
35	0.0008	0.0040	98,550	47.24
40	0.0013	0.0067	98,152	42.42
45	0.0019	0.0095	97,499	37.69
50	0.0030	0.0151	96,571	33.03
55	0.0043	0.0211	95,116	28.49
60	0.0064	0.0317	93,110	24.05
65	0.0109	0.0529	90,161	19.76
70	0.0192	0.0915	85,392	15.72
75	0.0342	0.1574	77,577	12.06
80	0.0663	0.2842	65,367	8.84
85	0.1573	1	46,790	6.36



## WHO LIFE TABLE FOR 1999: BELIZE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0255	0.0249	100,000	69.84
1	0.0013	0.0052	97,510	70.62
5	0.0005	0.0023	97,000	66.99
10	0.0005	0.0026	96,776	62.14
15	0.0016	0.0081	96,521	57.29
20	0.0026	0.0130	95,744	52.74
25	0.0028	0.0141	94,500	48.40
30	0.0031	0.0156	93,169	44.06
35	0.0036	0.0180	91,719	39.71
40	0.0043	0.0212	90,065	35.40
45	0.0058	0.0284	88,152	31.11
50	0.0084	0.0410	85,644	26.95
55	0.0123	0.0598	82,132	22.99
60	0.0189	0.0900	77,222	19.30
65	0.0267	0.1251	70,269	15.96
70	0.0411	0.1855	61,477	12.89
75	0.0597	0.2579	50,072	10.28
80	0.0870	0.3523	37,161	8.04
85	0.1625	1	24,069	6.15

### Females

0	0.0202	0.0198	100,000	74.91
1	0.0012	0.0048	98,017	75.42
5	0.0004	0.0018	97,548	71.78
10	0.0004	0.0018	97,375	66.90
15	0.0006	0.0029	97,197	62.02
20	0.0008	0.0039	96,914	57.19
25	0.0010	0.0048	96,536	52.41
30	0.0012	0.0059	96,075	47.65
35	0.0016	0.0079	95,512	42.91
40	0.0023	0.0116	94,753	38.24
45	0.0037	0.0183	93,654	33.66
50	0.0057	0.0283	91,943	29.24
55	0.0086	0.0420	89,339	25.02
60	0.0122	0.0594	85,585	21.00
65	0.0184	0.0879	80,500	17.17
70	0.0296	0.1372	73,422	13.59
75	0.0482	0.2136	63,346	10.37
80	0.0835	0.3407	49,814	7.55
85	0.1899	1	32,842	5.26

## WHO LIFE TABLE FOR 1999: BENIN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0996	0.0931	100,000	51.31
1	0.0181	0.0694	90,691	55.55
5	0.0050	0.0249	84,395	55.57
10	0.0033	0.0162	82,292	51.93
15	0.0043	0.0212	80,960	47.74
20	0.0061	0.0301	79,244	43.72
25	0.0079	0.0388	76,859	40.00
30	0.0091	0.0446	73,878	36.51
35	0.0102	0.0498	70,580	33.10
40	0.0114	0.0553	67,062	29.71
45	0.0126	0.0612	63,355	26.30
50	0.0150	0.0725	59,476	22.85
55	0.0190	0.0905	55,166	19.44
60	0.0261	0.1224	50,174	16.13
65	0.0389	0.1767	44,033	13.03
70	0.0596	0.2579	36,251	10.30
75	0.0873	0.3544	26,901	8.04
80	0.1237	0.4636	17,368	6.17
85	0.2216	1	9,316	4.51

### Females

0	0.0941	0.0883	100,000	53.27
1	0.0170	0.0655	91,169	57.41
5	0.0049	0.0244	85,196	57.32
10	0.0032	0.0159	83,117	53.69
15	0.0041	0.0205	81,798	49.52
20	0.0060	0.0293	80,118	45.50
25	0.0079	0.0388	77,769	41.80
30	0.0089	0.0437	74,753	38.39
35	0.0092	0.0449	71,487	35.03
40	0.0097	0.0474	68,278	31.55
45	0.0097	0.0476	65,045	28.00
50	0.0114	0.0556	61,950	24.27
55	0.0154	0.0741	58,508	20.55
60	0.0223	0.1058	54,170	17.00
65	0.0332	0.1532	48,438	13.71
70	0.0523	0.2302	41,018	10.75
75	0.0804	0.3314	31,574	8.25
80	0.1226	0.4605	21,110	6.17
85	0.2232	1	11,388	4.48

## WHO LIFE TABLE FOR 1999: BHUTAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0883	0.0818	100,000	59.53
1	0.0086	0.0339	91,817	63.83
5	0.0022	0.0111	88,709	62.01
10	0.0013	0.0067	87,722	57.67
15	0.0016	0.0082	87,133	53.05
20	0.0023	0.0114	86,422	48.46
25	0.0028	0.0139	85,435	43.99
30	0.0033	0.0166	84,249	39.58
35	0.0040	0.0200	82,854	35.20
40	0.0060	0.0294	81,197	30.87
45	0.0085	0.0418	78,806	26.73
50	0.0130	0.0630	75,508	22.79
55	0.0181	0.0864	70,748	19.15
60	0.0290	0.1350	64,636	15.73
65	0.0411	0.1862	55,909	12.79
70	0.0616	0.2668	45,498	10.15
75	0.0910	0.3707	33,358	7.93
80	0.1320	0.4962	20,991	6.14
85	0.2120	1	10,574	4.72

### Females

0	0.0807	0.0752	100,000	60.70
1	0.0109	0.0424	92,481	64.63
5	0.0029	0.0143	88,560	63.42
10	0.0015	0.0074	87,293	59.31
15	0.0022	0.0110	86,652	54.73
20	0.0030	0.0149	85,695	50.31
25	0.0029	0.0142	84,422	46.03
30	0.0030	0.0150	83,227	41.66
35	0.0032	0.0158	81,977	37.25
40	0.0042	0.0209	80,679	32.81
45	0.0058	0.0287	78,994	28.46
50	0.0099	0.0482	76,724	24.23
55	0.0140	0.0676	73,029	20.33
60	0.0238	0.1121	68,095	16.62
65	0.0341	0.1572	60,460	13.40
70	0.0564	0.2470	50,953	10.43
75	0.0862	0.3545	38,367	8.04
80	0.1309	0.4932	24,767	6.07
85	0.2196	1	12,552	4.55

## WHO LIFE TABLE FOR 1999: BOLIVIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0685	0.0645	100,000	60.45
1	0.0072	0.0284	93,548	63.62
5	0.0017	0.0083	90,890	61.43
10	0.0011	0.0057	90,131	56.93
15	0.0019	0.0094	89,621	52.24
20	0.0030	0.0147	88,782	47.71
25	0.0035	0.0171	87,480	43.38
30	0.0041	0.0203	85,981	39.09
35	0.0054	0.0264	84,236	34.85
40	0.0070	0.0343	82,011	30.73
45	0.0094	0.0458	79,195	26.73
50	0.0133	0.0642	75,566	22.89
55	0.0187	0.0891	70,713	19.29
60	0.0278	0.1298	64,410	15.94
65	0.0402	0.1825	56,052	12.94
70	0.0609	0.2641	45,821	10.27
75	0.0896	0.3659	33,718	8.06
80	0.1282	0.4854	21,382	6.27
85	0.2072	1	11,002	4.83

### Females

0	0.0521	0.0498	100,000	62.43
1	0.0084	0.0330	95,020	64.69
5	0.0018	0.0090	91,887	62.84
10	0.0010	0.0052	91,060	58.39
15	0.0015	0.0075	90,583	53.68
20	0.0022	0.0109	89,903	49.07
25	0.0028	0.0138	88,926	44.58
30	0.0035	0.0175	87,700	40.17
35	0.0048	0.0235	86,167	35.84
40	0.0059	0.0292	84,144	31.64
45	0.0079	0.0386	81,684	27.52
50	0.0112	0.0544	78,529	23.53
55	0.0164	0.0786	74,258	19.74
60	0.0250	0.1177	68,420	16.21
65	0.0382	0.1742	60,368	13.04
70	0.0584	0.2546	49,853	10.26
75	0.0891	0.3644	37,159	7.91
80	0.1350	0.5048	23,617	6.01
85	0.2181	1	11,695	4.58

## WHO LIFE TABLE FOR 1999: BOSNIA AND HERZEGOVINA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0151	0.0149	100,000	71.01
1	0.0017	0.0069	98,506	71.09
5	0.0006	0.0031	97,830	67.57
10	0.0006	0.0027	97,530	62.77
15	0.0008	0.0038	97,262	57.93
20	0.0010	0.0051	96,895	53.14
25	0.0013	0.0064	96,399	48.41
30	0.0017	0.0084	95,784	43.70
35	0.0022	0.0111	94,978	39.05
40	0.0033	0.0162	93,919	34.46
45	0.0048	0.0239	92,397	29.99
50	0.0077	0.0377	90,185	25.66
55	0.0115	0.0560	86,784	21.57
60	0.0200	0.0952	81,922	17.70
65	0.0303	0.1408	74,126	14.30
70	0.0476	0.2118	63,687	11.24
75	0.0719	0.3020	50,196	8.62
80	0.1082	0.4187	35,037	6.33
85	0.2361	1	20,368	4.24

### Females

0	0.0113	0.0112	100,000	75.21
1	0.0014	0.0057	98,879	75.07
5	0.0008	0.0039	98,314	71.49
10	0.0007	0.0036	97,931	66.76
15	0.0008	0.0039	97,580	61.99
20	0.0009	0.0043	97,195	57.22
25	0.0010	0.0051	96,779	52.46
30	0.0014	0.0069	96,286	47.71
35	0.0016	0.0082	95,623	43.03
40	0.0020	0.0100	94,844	38.36
45	0.0026	0.0131	93,895	33.72
50	0.0042	0.0208	92,666	29.14
55	0.0063	0.0310	90,734	24.70
60	0.0098	0.0477	87,919	20.42
65	0.0162	0.0776	83,721	16.31
70	0.0283	0.1319	77,224	12.48
75	0.0519	0.2281	67,036	9.01
80	0.0955	0.3795	51,748	5.98
85	0.3093	1	32,109	3.23

## WHO LIFE TABLE FOR 1999: BOTSWANA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0473	0.0458	100,000	39.47
1	0.0144	0.0558	95,423	40.35
5	0.0033	0.0166	90,095	38.64
10	0.0024	0.0120	88,600	34.25
15	0.0048	0.0235	87,537	29.64
20	0.0116	0.0561	85,479	25.29
25	0.0269	0.1260	80,680	21.65
30	0.0441	0.1988	70,511	19.41
35	0.0483	0.2156	56,495	18.60
40	0.0474	0.2117	44,316	18.03
45	0.0451	0.2026	34,932	17.20
50	0.0409	0.1856	27,854	15.94
55	0.0382	0.1744	22,683	14.00
60	0.0481	0.2146	18,728	11.43
65	0.0737	0.3103	14,709	8.87
70	0.1149	0.4424	10,145	6.76
75	0.1665	0.5777	5,657	5.22
80	0.2274	0.7044	2,389	4.14
85	0.2828	1	706	3.54

### Females

0	0.0461	0.0446	100,000	39.29
1	0.0142	0.0549	95,536	40.11
5	0.0031	0.0155	90,293	38.35
10	0.0021	0.0106	88,891	33.91
15	0.0077	0.0379	87,948	29.25
20	0.0226	0.1068	84,615	25.30
25	0.0410	0.1860	75,574	23.03
30	0.0502	0.2231	61,519	22.72
35	0.0413	0.1872	47,795	23.53
40	0.0349	0.1604	38,848	23.37
45	0.0260	0.1220	32,618	22.36
50	0.0225	0.1063	28,640	20.12
55	0.0225	0.1064	25,596	17.21
60	0.0299	0.1389	22,873	13.96
65	0.0478	0.2131	19,695	10.81
70	0.0827	0.3402	15,498	8.08
75	0.1333	0.4926	10,225	6.01
80	0.1983	0.6457	5,188	4.56
85	0.2722	1	1,838	3.67

## WHO LIFE TABLE FOR 1999: BRAZIL

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0416	0.0401	100,000	63.68
1	0.0017	0.0068	95,994	65.33
5	0.0006	0.0028	95,342	61.77
10	0.0007	0.0033	95,072	56.94
15	0.0021	0.0103	94,756	52.12
20	0.0035	0.0172	93,783	47.64
25	0.0043	0.0213	92,168	43.43
30	0.0049	0.0240	90,205	39.32
35	0.0059	0.0292	88,043	35.22
40	0.0072	0.0356	85,475	31.20
45	0.0096	0.0466	82,435	27.26
50	0.0132	0.0640	78,590	23.47
55	0.0191	0.0913	73,558	19.91
60	0.0270	0.1263	66,839	16.66
65	0.0394	0.1793	58,396	13.71
70	0.0557	0.2444	47,923	11.15
75	0.0787	0.3288	36,209	8.95
80	0.1101	0.4318	24,302	7.12
85	0.1777	1	13,809	5.63

### Females

0	0.0356	0.0345	100,000	71.74
1	0.0018	0.0073	96,552	73.30
5	0.0004	0.0020	95,847	69.83
10	0.0004	0.0021	95,655	64.96
15	0.0007	0.0037	95,450	60.10
20	0.0010	0.0049	95,099	55.31
25	0.0013	0.0065	94,631	50.57
30	0.0017	0.0083	94,016	45.88
35	0.0023	0.0117	93,233	41.25
40	0.0034	0.0167	92,146	36.71
45	0.0050	0.0249	90,604	32.29
50	0.0075	0.0370	88,346	28.05
55	0.0113	0.0548	85,079	24.03
60	0.0166	0.0797	80,418	20.28
65	0.0251	0.1182	74,006	16.82
70	0.0370	0.1694	65,259	13.74
75	0.0545	0.2400	54,203	11.03
80	0.0797	0.3322	41,195	8.72
85	0.1466	1	27,508	6.82

## WHO LIFE TABLE FOR 1999: BRUNEI DARUSSALAM

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0089	0.0089	100,000	74.47
1	0.0007	0.0028	99,114	74.13
5	0.0003	0.0016	98,832	70.34
10	0.0004	0.0020	98,677	65.45
15	0.0010	0.0051	98,480	60.57
20	0.0020	0.0101	97,978	55.87
25	0.0021	0.0106	96,991	51.41
30	0.0019	0.0093	95,964	46.94
35	0.0020	0.0098	95,074	42.35
40	0.0028	0.0141	94,143	37.75
45	0.0036	0.0180	92,813	33.25
50	0.0068	0.0334	91,146	28.81
55	0.0109	0.0529	88,106	24.72
60	0.0181	0.0866	83,446	20.96
65	0.0271	0.1267	76,217	17.72
70	0.0375	0.1713	66,560	14.92
75	0.0542	0.2389	55,155	12.49
80	0.0631	0.2725	41,981	10.63
85	0.1153	1	30,543	8.67

### Females

0	0.0072	0.0071	100,000	79.77
1	0.0004	0.0015	99,287	79.34
5	0.0002	0.0010	99,141	75.45
10	0.0003	0.0014	99,039	70.53
15	0.0004	0.0018	98,900	65.62
20	0.0010	0.0049	98,720	60.74
25	0.0007	0.0037	98,237	56.02
30	0.0009	0.0046	97,877	51.22
35	0.0011	0.0055	97,428	46.45
40	0.0018	0.0089	96,893	41.69
45	0.0027	0.0135	96,030	37.04
50	0.0045	0.0220	94,731	32.51
55	0.0067	0.0331	92,644	28.19
60	0.0112	0.0543	89,575	24.07
65	0.0174	0.0836	84,714	20.31
70	0.0259	0.1217	77,636	16.93
75	0.0403	0.1830	68,184	13.93
80	0.0512	0.2271	55,706	11.49
85	0.1095	1	43,056	9.14



## WHO LIFE TABLE FOR 1999: BULGARIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0174	0.0171	100,000	67.19
1	0.0009	0.0037	98,286	67.36
5	0.0005	0.0023	97,922	63.61
10	0.0005	0.0024	97,695	58.75
15	0.0008	0.0041	97,463	53.88
20	0.0013	0.0066	97,060	49.10
25	0.0014	0.0067	96,419	44.41
30	0.0020	0.0100	95,769	39.69
35	0.0030	0.0149	94,807	35.07
40	0.0050	0.0248	93,398	30.56
45	0.0090	0.0439	91,083	26.27
50	0.0137	0.0660	87,084	22.36
55	0.0193	0.0921	81,333	18.77
60	0.0294	0.1370	73,841	15.42
65	0.0404	0.1834	63,726	12.47
70	0.0637	0.2747	52,035	9.71
75	0.0998	0.3994	37,741	7.44
80	0.1407	0.5206	22,666	5.73
85	0.2362	1	10,867	4.23

### Females

0	0.0127	0.0126	100,000	74.88
1	0.0009	0.0038	98,740	74.84
5	0.0003	0.0016	98,366	71.12
10	0.0003	0.0015	98,204	66.23
15	0.0004	0.0021	98,059	61.32
20	0.0005	0.0024	97,855	56.45
25	0.0006	0.0032	97,619	51.58
30	0.0007	0.0036	97,304	46.74
35	0.0012	0.0062	96,951	41.90
40	0.0020	0.0099	96,354	37.14
45	0.0030	0.0151	95,400	32.49
50	0.0048	0.0236	93,959	27.95
55	0.0074	0.0363	91,744	23.56
60	0.0122	0.0593	88,413	19.36
65	0.0206	0.0979	83,173	15.42
70	0.0374	0.1710	75,034	11.82
75	0.0678	0.2898	62,202	8.74
80	0.1172	0.4533	44,174	6.29
85	0.2257	1	24,152	4.43

## WHO LIFE TABLE FOR 1999: BURKINA FASO

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1129	0.1046	100,000	44.14
1	0.0228	0.0865	89,538	48.26
5	0.0063	0.0312	81,793	48.68
10	0.0040	0.0196	79,242	45.17
15	0.0054	0.0266	77,687	41.02
20	0.0084	0.0411	75,617	37.08
25	0.0132	0.0640	72,508	33.56
30	0.0172	0.0824	67,866	30.68
35	0.0189	0.0900	62,275	28.21
40	0.0206	0.0981	56,668	25.76
45	0.0208	0.0988	51,109	23.29
50	0.0231	0.1093	46,061	20.56
55	0.0242	0.1139	41,026	17.78
60	0.0335	0.1547	36,352	14.75
65	0.0468	0.2089	30,729	11.99
70	0.0693	0.2935	24,310	9.50
75	0.0966	0.3845	17,175	7.46
80	0.1451	0.5212	10,572	5.65
85	0.2332	1	5,062	4.29

### Females

0	0.1040	0.0969	100,000	45.65
1	0.0215	0.0819	90,306	49.52
5	0.0061	0.0300	82,913	49.79
10	0.0040	0.0200	80,425	46.26
15	0.0059	0.0290	78,813	42.15
20	0.0102	0.0498	76,531	38.33
25	0.0157	0.0755	72,721	35.21
30	0.0178	0.0854	67,233	32.88
35	0.0169	0.0811	61,490	30.72
40	0.0160	0.0771	56,506	28.21
45	0.0150	0.0725	52,149	25.35
50	0.0159	0.0767	48,369	22.14
55	0.0198	0.0944	44,660	18.77
60	0.0281	0.1313	40,446	15.47
65	0.0423	0.1909	35,134	12.43
70	0.0645	0.2761	28,428	9.78
75	0.0943	0.3772	20,578	7.59
80	0.1396	0.5069	12,815	5.77
85	0.2303	1	6,319	4.34

## WHO LIFE TABLE FOR 1999: BURUNDI

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1022	0.0954	100,000	43.20
1	0.0216	0.0823	90,461	46.72
5	0.0058	0.0287	83,015	46.77
10	0.0038	0.0186	80,631	43.08
15	0.0054	0.0267	79,127	38.85
20	0.0090	0.0442	77,013	34.84
25	0.0153	0.0735	73,610	31.34
30	0.0217	0.1030	68,202	28.63
35	0.0234	0.1107	61,179	26.63
40	0.0249	0.1173	54,409	24.63
45	0.0242	0.1141	48,026	22.57
50	0.0247	0.1164	42,547	20.15
55	0.0257	0.1208	37,596	17.48
60	0.0335	0.1544	33,054	14.54
65	0.0475	0.2120	27,951	11.73
70	0.0728	0.3061	22,026	9.23
75	0.1034	0.4059	15,283	7.25
80	0.1473	0.5270	9,080	5.59
85	0.2350	1	4,294	4.26

### Females

0	0.0981	0.0918	100,000	43.80
1	0.0215	0.0817	90,820	47.20
5	0.0059	0.0288	83,397	47.26
10	0.0038	0.0190	80,993	43.59
15	0.0064	0.0315	79,456	39.38
20	0.0125	0.0604	76,955	35.58
25	0.0194	0.0924	72,305	32.71
30	0.0239	0.1127	65,621	30.78
35	0.0213	0.1010	58,226	29.38
40	0.0197	0.0940	52,348	27.39
45	0.0169	0.0812	47,426	24.98
50	0.0173	0.0830	43,573	21.97
55	0.0205	0.0974	39,957	18.73
60	0.0277	0.1293	36,065	15.48
65	0.0414	0.1874	31,401	12.41
70	0.0645	0.2763	25,516	9.70
75	0.0973	0.3867	18,466	7.49
80	0.1411	0.5109	11,326	5.73
85	0.2319	1	5,540	4.31

## WHO LIFE TABLE FOR 1999: CAMBODIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1184	0.1070	100,000	52.16
1	0.0088	0.0345	89,296	57.40
5	0.0030	0.0147	86,214	55.40
10	0.0023	0.0115	84,944	51.19
15	0.0037	0.0183	83,966	46.76
20	0.0046	0.0230	82,433	42.58
25	0.0044	0.0218	80,539	38.52
30	0.0058	0.0288	78,783	34.32
35	0.0069	0.0341	76,513	30.27
40	0.0093	0.0455	73,904	26.25
45	0.0139	0.0670	70,545	22.38
50	0.0209	0.0994	65,818	18.81
55	0.0306	0.1422	59,275	15.61
60	0.0453	0.2035	50,846	12.78
65	0.0626	0.2708	40,497	10.41
70	0.0873	0.3585	29,531	8.34
75	0.1222	0.4680	18,945	6.61
80	0.1673	0.5897	10,079	5.22
85	0.2427	1	4,135	4.12

### Females

0	0.1061	0.0969	100,000	55.31
1	0.0092	0.0359	90,313	60.23
5	0.0021	0.0105	87,071	58.41
10	0.0017	0.0085	86,159	54.00
15	0.0030	0.0151	85,428	49.44
20	0.0040	0.0200	84,138	45.16
25	0.0037	0.0183	82,455	41.03
30	0.0044	0.0217	80,949	36.75
35	0.0050	0.0245	79,193	32.51
40	0.0070	0.0344	77,253	28.26
45	0.0106	0.0518	74,593	24.18
50	0.0163	0.0784	70,729	20.37
55	0.0239	0.1129	65,182	16.89
60	0.0370	0.1695	57,823	13.72
65	0.0536	0.2363	48,021	11.01
70	0.0798	0.3328	36,675	8.64
75	0.1165	0.4511	24,471	6.71
80	0.1668	0.5886	13,432	5.16
85	0.2517	1	5,526	3.97

## WHO LIFE TABLE FOR 1999: CAMEROON

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0692	0.0660	100,000	49.84
1	0.0157	0.0604	93,399	52.34
5	0.0044	0.0217	87,755	51.60
10	0.0029	0.0142	85,849	47.69
15	0.0042	0.0208	84,633	43.34
20	0.0067	0.0329	82,869	39.21
25	0.0111	0.0539	80,142	35.46
30	0.0150	0.0725	75,822	32.34
35	0.0166	0.0799	70,326	29.67
40	0.0173	0.0829	64,708	27.03
45	0.0179	0.0857	59,346	24.24
50	0.0193	0.0919	54,261	21.28
55	0.0216	0.1023	49,276	18.18
60	0.0294	0.1368	44,234	14.97
65	0.0449	0.2015	38,184	11.94
70	0.0695	0.2942	30,491	9.34
75	0.1023	0.4025	21,522	7.23
80	0.1502	0.5343	12,859	5.52
85	0.2372	1	5,988	4.22

### Females

0	0.0699	0.0667	100,000	51.97
1	0.0148	0.0571	93,334	54.67
5	0.0041	0.0201	88,004	53.88
10	0.0027	0.0134	86,233	49.93
15	0.0043	0.0214	85,078	45.58
20	0.0082	0.0403	83,257	41.52
25	0.0132	0.0641	79,903	38.16
30	0.0155	0.0748	74,785	35.60
35	0.0142	0.0685	69,190	33.28
40	0.0134	0.0647	64,450	30.54
45	0.0119	0.0578	60,279	27.48
50	0.0125	0.0604	56,797	24.01
55	0.0154	0.0740	53,365	20.39
60	0.0216	0.1024	49,413	16.82
65	0.0334	0.1541	44,351	13.46
70	0.0546	0.2391	37,518	10.46
75	0.0830	0.3402	28,546	8.00
80	0.1313	0.4847	18,834	5.91
85	0.2321	1	9,706	4.31

## WHO LIFE TABLE FOR 1999: CANADA

### Males

$x$	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0053	0.0053	100,000	76.16
1	0.0002	0.0010	99,469	75.56
5	0.0001	0.0007	99,372	71.63
10	0.0002	0.0009	99,299	66.68
15	0.0007	0.0034	99,210	61.74
20	0.0009	0.0044	98,878	56.94
25	0.0009	0.0046	98,441	52.18
30	0.0011	0.0057	97,988	47.41
35	0.0015	0.0073	97,427	42.67
40	0.0019	0.0096	96,716	37.97
45	0.0028	0.0138	95,787	33.31
50	0.0046	0.0226	94,470	28.74
55	0.0075	0.0369	92,339	24.35
60	0.0129	0.0623	88,936	20.18
65	0.0217	0.1030	83,395	16.36
70	0.0350	0.1608	74,806	12.95
75	0.0579	0.2529	62,778	9.95
80	0.0944	0.3819	46,899	7.47
85	0.1804	1	28,989	5.54

### Females

0	0.0043	0.0043	100,000	81.88
1	0.0002	0.0008	99,570	81.24
5	0.0001	0.0006	99,489	77.30
10	0.0002	0.0008	99,432	72.35
15	0.0003	0.0014	99,354	67.40
20	0.0003	0.0014	99,216	62.49
25	0.0003	0.0017	99,080	57.57
30	0.0004	0.0022	98,912	52.67
35	0.0007	0.0033	98,693	47.78
40	0.0010	0.0051	98,370	42.93
45	0.0017	0.0086	97,869	38.13
50	0.0028	0.0140	97,023	33.44
55	0.0047	0.0230	95,667	28.88
60	0.0072	0.0354	93,462	24.50
65	0.0121	0.0585	90,156	20.31
70	0.0195	0.0930	84,882	16.42
75	0.0334	0.1541	76,988	12.85
80	0.0600	0.2607	65,120	9.73
85	0.1373	1	48,140	7.28

## WHO LIFE TABLE FOR 1999: CAPE VERDE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0277	0.0271	100,000	64.21
1	0.0072	0.0284	97,287	64.99
5	0.0022	0.0110	94,527	62.84
10	0.0015	0.0075	93,486	58.52
15	0.0021	0.0103	92,785	53.94
20	0.0028	0.0138	91,834	49.47
25	0.0034	0.0167	90,562	45.13
30	0.0037	0.0182	89,048	40.86
35	0.0043	0.0213	87,428	36.57
40	0.0056	0.0274	85,567	32.31
45	0.0069	0.0337	83,224	28.15
50	0.0094	0.0458	80,417	24.04
55	0.0137	0.0664	76,736	20.08
60	0.0207	0.0982	71,641	16.33
65	0.0348	0.1596	64,605	12.83
70	0.0593	0.2569	54,293	9.80
75	0.0944	0.3777	40,343	7.36
80	0.1482	0.5291	25,106	5.41
85	0.2567	1	11,822	3.90

### Females

0	0.0292	0.0287	100,000	71.74
1	0.0053	0.0211	97,134	72.84
5	0.0017	0.0083	95,083	70.38
10	0.0011	0.0056	94,293	65.95
15	0.0013	0.0065	93,769	61.31
20	0.0016	0.0078	93,158	56.69
25	0.0019	0.0097	92,432	52.12
30	0.0022	0.0108	91,535	47.60
35	0.0026	0.0128	90,550	43.09
40	0.0029	0.0146	89,394	38.62
45	0.0034	0.0170	88,089	34.15
50	0.0044	0.0220	86,595	29.70
55	0.0065	0.0320	84,692	25.31
60	0.0097	0.0475	81,979	21.07
65	0.0162	0.0780	78,083	16.99
70	0.0285	0.1325	71,994	13.22
75	0.0475	0.2110	62,456	9.87
80	0.0894	0.3601	49,280	6.89
85	0.2239	1	31,536	4.47

## WHO LIFE TABLE FOR 1999: CENTRAL AFRICAN REPUBLIC

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0842	0.0795	100,000	43.24
1	0.0208	0.0792	92,048	45.95
5	0.0055	0.0270	84,761	45.77
10	0.0036	0.0180	82,471	41.97
15	0.0054	0.0267	80,984	37.69
20	0.0092	0.0448	78,822	33.66
25	0.0162	0.0778	75,293	30.12
30	0.0234	0.1104	69,439	27.45
35	0.0263	0.1233	61,772	25.54
40	0.0259	0.1218	54,154	23.78
45	0.0263	0.1232	47,559	21.73
50	0.0258	0.1212	41,701	19.44
55	0.0287	0.1339	36,645	16.77
60	0.0352	0.1616	31,738	13.98
65	0.0531	0.2340	26,609	11.19
70	0.0755	0.3157	20,383	8.86
75	0.1118	0.4313	13,948	6.84
80	0.1644	0.5694	7,932	5.25
85	0.2406	1	3,416	4.16

### Females

0	0.0812	0.0768	100,000	44.81
1	0.0187	0.0717	92,320	47.52
5	0.0049	0.0244	85,704	47.06
10	0.0033	0.0164	83,615	43.17
15	0.0060	0.0294	82,245	38.85
20	0.0128	0.0619	79,825	34.95
25	0.0212	0.1007	74,886	32.09
30	0.0250	0.1179	67,348	30.41
35	0.0225	0.1066	59,411	29.14
40	0.0204	0.0970	53,080	27.31
45	0.0171	0.0819	47,931	24.98
50	0.0174	0.0833	44,007	21.98
55	0.0195	0.0928	40,342	18.75
60	0.0270	0.1263	36,598	15.41
65	0.0417	0.1883	31,975	12.28
70	0.0668	0.2846	25,954	9.56
75	0.0978	0.3883	18,568	7.41
80	0.1429	0.5155	11,359	5.63
85	0.2402	1	5,503	4.16



## WHO LIFE TABLE FOR 1999: CHAD

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1180	0.1090	100,000	47.27
1	0.0220	0.0837	89,103	52.01
5	0.0059	0.0292	81,644	52.62
10	0.0038	0.0188	79,262	49.12
15	0.0050	0.0248	77,770	45.02
20	0.0072	0.0354	75,840	41.10
25	0.0098	0.0480	73,156	37.51
30	0.0116	0.0562	69,645	34.28
35	0.0128	0.0622	65,733	31.17
40	0.0140	0.0678	61,647	28.07
45	0.0153	0.0739	57,465	24.93
50	0.0177	0.0849	53,220	21.72
55	0.0218	0.1034	48,700	18.51
60	0.0292	0.1359	43,663	15.35
65	0.0443	0.1990	37,730	12.37
70	0.0650	0.2780	30,221	9.84
75	0.0940	0.3763	21,818	7.71
80	0.1337	0.4912	13,607	5.94
85	0.2248	1	6,923	4.45

### Females

0	0.1048	0.0977	100,000	50.10
1	0.0195	0.0744	90,234	54.49
5	0.0056	0.0274	83,518	54.74
10	0.0036	0.0180	81,228	51.22
15	0.0047	0.0234	79,768	47.11
20	0.0070	0.0346	77,898	43.18
25	0.0098	0.0480	75,205	39.64
30	0.0113	0.0548	71,594	36.51
35	0.0113	0.0550	67,668	33.48
40	0.0115	0.0561	63,944	30.29
45	0.0115	0.0557	60,355	26.94
50	0.0131	0.0635	56,994	23.38
55	0.0171	0.0820	53,373	19.80
60	0.0245	0.1156	48,997	16.34
65	0.0370	0.1689	43,334	13.15
70	0.0580	0.2520	36,016	10.32
75	0.0863	0.3513	26,940	7.99
80	0.1276	0.4746	17,476	6.05
85	0.2255	1	9,182	4.43

## WHO LIFE TABLE FOR 1999: CHILE

### Males

$x$	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0087	0.0087	100,000	73.37
1	0.0005	0.0019	99,135	73.00
5	0.0002	0.0011	98,945	69.14
10	0.0003	0.0013	98,838	64.21
15	0.0006	0.0032	98,714	59.29
20	0.0011	0.0053	98,396	54.48
25	0.0013	0.0066	97,873	49.75
30	0.0014	0.0071	97,227	45.07
35	0.0018	0.0090	96,534	40.37
40	0.0023	0.0117	95,663	35.72
45	0.0040	0.0197	94,546	31.11
50	0.0061	0.0299	92,687	26.68
55	0.0096	0.0467	89,919	22.43
60	0.0160	0.0769	85,716	18.41
65	0.0264	0.1237	79,128	14.73
70	0.0423	0.1915	69,344	11.45
75	0.0681	0.2910	56,067	8.58
80	0.1296	0.4895	39,750	6.07
85	0.2226	1	20,292	4.49

### Females

0	0.0072	0.0071	100,000	79.94
1	0.0003	0.0013	99,289	79.51
5	0.0002	0.0008	99,162	75.61
10	0.0002	0.0008	99,085	70.66
15	0.0002	0.0012	99,010	65.72
20	0.0003	0.0014	98,891	60.79
25	0.0003	0.0016	98,756	55.87
30	0.0004	0.0022	98,595	50.96
35	0.0007	0.0037	98,381	46.06
40	0.0012	0.0061	98,015	41.23
45	0.0021	0.0103	97,420	36.46
50	0.0032	0.0158	96,418	31.82
55	0.0051	0.0250	94,895	27.29
60	0.0083	0.0406	92,521	22.92
65	0.0136	0.0660	88,762	18.79
70	0.0215	0.1022	82,907	14.94
75	0.0385	0.1758	74,436	11.35
80	0.0776	0.3250	61,352	8.24
85	0.1665	1	41,410	6.01

## WHO LIFE TABLE FOR 1999: CHINA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0268	0.0262	100,000	68.16
1	0.0024	0.0095	97,384	68.99
5	0.0008	0.0042	96,459	65.64
10	0.0007	0.0033	96,058	60.90
15	0.0011	0.0053	95,740	56.09
20	0.0014	0.0069	95,228	51.38
25	0.0013	0.0067	94,570	46.72
30	0.0018	0.0092	93,935	42.02
35	0.0023	0.0112	93,075	37.39
40	0.0031	0.0156	92,031	32.78
45	0.0050	0.0245	90,594	28.26
50	0.0081	0.0395	88,378	23.91
55	0.0131	0.0634	84,884	19.79
60	0.0222	0.1052	79,504	15.96
65	0.0363	0.1663	71,138	12.54
70	0.0612	0.2641	59,311	9.55
75	0.0991	0.3924	43,645	7.12
80	0.1572	0.5519	26,520	5.21
85	0.2643	1	11,884	3.78

### Females

0	0.0300	0.0292	100,000	71.38
1	0.0027	0.0108	97,082	72.53
5	0.0006	0.0032	96,031	69.30
10	0.0005	0.0026	95,727	64.52
15	0.0009	0.0046	95,480	59.68
20	0.0012	0.0062	95,037	54.94
25	0.0011	0.0057	94,447	50.27
30	0.0014	0.0069	93,906	45.54
35	0.0016	0.0079	93,259	40.84
40	0.0023	0.0113	92,522	36.15
45	0.0036	0.0176	91,473	31.53
50	0.0057	0.0280	89,863	27.05
55	0.0088	0.0432	87,348	22.76
60	0.0149	0.0720	83,574	18.68
65	0.0245	0.1152	77,561	14.93
70	0.0431	0.1938	68,628	11.56
75	0.0703	0.2963	55,325	8.76
80	0.1145	0.4373	38,935	6.45
85	0.2136	1	21,909	4.68

## WHO LIFE TABLE FOR 1999: COLOMBIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0262	0.0256	100,000	68.28
1	0.0014	0.0056	97,440	69.07
5	0.0005	0.0025	96,896	65.45
10	0.0006	0.0028	96,655	60.60
15	0.0017	0.0087	96,381	55.77
20	0.0028	0.0141	95,542	51.24
25	0.0031	0.0155	94,191	46.94
30	0.0035	0.0172	92,736	42.63
35	0.0040	0.0200	91,142	38.33
40	0.0048	0.0237	89,318	34.07
45	0.0065	0.0318	87,203	29.83
50	0.0094	0.0461	84,426	25.73
55	0.0139	0.0673	80,538	21.85
60	0.0213	0.1013	75,119	18.25
65	0.0302	0.1402	67,509	15.02
70	0.0461	0.2059	58,044	12.07
75	0.0670	0.2844	46,095	9.58
80	0.0971	0.3848	32,985	7.46
85	0.1760	1	20,293	5.68

### Females

0	0.0214	0.0210	100,000	74.19
1	0.0013	0.0052	97,901	74.77
5	0.0004	0.0019	97,388	71.16
10	0.0004	0.0019	97,198	66.29
15	0.0007	0.0033	97,013	61.42
20	0.0008	0.0041	96,696	56.61
25	0.0010	0.0048	96,298	51.83
30	0.0013	0.0064	95,832	47.07
35	0.0018	0.0091	95,214	42.36
40	0.0026	0.0129	94,345	37.73
45	0.0039	0.0193	93,130	33.19
50	0.0061	0.0302	91,329	28.79
55	0.0093	0.0454	88,574	24.61
60	0.0154	0.0741	84,553	20.66
65	0.0223	0.1054	78,288	17.12
70	0.0346	0.1587	70,037	13.84
75	0.0517	0.2274	58,919	11.00
80	0.0771	0.3190	45,518	8.55
85	0.1543	1	30,996	6.48

## WHO LIFE TABLE FOR 1999: COMOROS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0627	0.0601	100,000	55.75
1	0.0144	0.0555	93,991	58.30
5	0.0042	0.0208	88,772	57.63
10	0.0027	0.0135	86,926	53.80
15	0.0036	0.0180	85,748	49.51
20	0.0049	0.0240	84,204	45.37
25	0.0058	0.0287	82,185	41.42
30	0.0059	0.0290	79,830	37.57
35	0.0069	0.0339	77,517	33.62
40	0.0084	0.0412	74,889	29.71
45	0.0097	0.0474	71,802	25.88
50	0.0136	0.0655	68,397	22.04
55	0.0194	0.0923	63,914	18.41
60	0.0267	0.1253	58,013	15.03
65	0.0465	0.2079	50,743	11.83
70	0.0700	0.2960	40,192	9.29
75	0.1022	0.4020	28,296	7.18
80	0.1525	0.5402	16,922	5.43
85	0.2430	1	7,780	4.12

### Females

0	0.0491	0.0475	100,000	58.31
1	0.0120	0.0467	95,254	60.20
5	0.0040	0.0196	90,808	59.07
10	0.0027	0.0133	89,031	55.20
15	0.0032	0.0160	87,845	50.91
20	0.0040	0.0199	86,439	46.69
25	0.0050	0.0247	84,715	42.59
30	0.0056	0.0277	82,624	38.61
35	0.0067	0.0329	80,336	34.64
40	0.0079	0.0388	77,691	30.73
45	0.0091	0.0443	74,679	26.87
50	0.0115	0.0558	71,370	23.00
55	0.0166	0.0798	67,387	19.21
60	0.0244	0.1149	62,009	15.66
65	0.0392	0.1780	54,885	12.37
70	0.0652	0.2786	45,113	9.52
75	0.0997	0.3944	32,545	7.26
80	0.1526	0.5402	19,710	5.46
85	0.2391	1	9,062	4.18

## WHO LIFE TABLE FOR 1999: CONGO

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0662	0.0633	100,000	53.59
1	0.0134	0.0520	93,672	56.19
5	0.0035	0.0176	88,799	55.19
10	0.0023	0.0116	87,240	51.13
15	0.0033	0.0164	86,224	46.70
20	0.0055	0.0272	84,806	42.44
25	0.0093	0.0457	82,502	38.56
30	0.0129	0.0626	78,735	35.28
35	0.0141	0.0683	73,805	32.47
40	0.0148	0.0713	68,768	29.67
45	0.0150	0.0721	63,865	26.76
50	0.0152	0.0733	59,262	23.64
55	0.0170	0.0816	54,920	20.31
60	0.0223	0.1055	50,436	16.89
65	0.0339	0.1562	45,118	13.59
70	0.0530	0.2331	38,072	10.65
75	0.0810	0.3334	29,199	8.16
80	0.1279	0.4754	19,465	6.07
85	0.2233	1	10,210	4.48

### Females

0	0.0593	0.0569	100,000	55.16
1	0.0122	0.0473	94,308	57.47
5	0.0035	0.0172	89,846	56.25
10	0.0023	0.0115	88,299	52.19
15	0.0037	0.0185	87,284	47.76
20	0.0072	0.0352	85,668	43.62
25	0.0117	0.0567	82,657	40.12
30	0.0136	0.0659	77,972	37.38
35	0.0129	0.0626	72,838	34.84
40	0.0117	0.0569	68,281	31.99
45	0.0103	0.0503	64,397	28.77
50	0.0108	0.0527	61,159	25.16
55	0.0130	0.0629	57,938	21.42
60	0.0185	0.0883	54,295	17.69
65	0.0285	0.1327	49,502	14.16
70	0.0484	0.2150	42,930	10.96
75	0.0765	0.3181	33,698	8.30
80	0.1248	0.4668	22,979	6.08
85	0.2282	1	12,253	4.38

## WHO LIFE TABLE FOR 1999: COOK ISLANDS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0219	0.0214	100,000	69.24
1	0.0020	0.0081	97,857	69.75
5	0.0007	0.0036	97,067	66.31
10	0.0006	0.0028	96,722	61.54
15	0.0009	0.0046	96,447	56.71
20	0.0012	0.0060	96,003	51.96
25	0.0012	0.0058	95,428	47.25
30	0.0016	0.0080	94,870	42.52
35	0.0020	0.0099	94,110	37.84
40	0.0028	0.0138	93,181	33.19
45	0.0044	0.0219	91,891	28.62
50	0.0073	0.0358	89,880	24.21
55	0.0120	0.0583	86,663	20.01
60	0.0208	0.0988	81,609	16.10
65	0.0347	0.1597	73,548	12.59
70	0.0597	0.2599	61,800	9.51
75	0.1013	0.4041	45,738	6.97
80	0.1666	0.5881	27,253	5.00
85	0.2803	1	11,224	3.57

### Females

0	0.0175	0.0172	100,000	73.27
1	0.0018	0.0073	98,278	73.55
5	0.0004	0.0022	97,556	70.08
10	0.0004	0.0018	97,341	65.23
15	0.0007	0.0033	97,165	60.34
20	0.0009	0.0045	96,846	55.53
25	0.0008	0.0042	96,413	50.77
30	0.0010	0.0051	96,009	45.98
35	0.0012	0.0059	95,519	41.20
40	0.0017	0.0087	94,951	36.43
45	0.0028	0.0138	94,126	31.73
50	0.0046	0.0227	92,823	27.14
55	0.0074	0.0365	90,714	22.71
60	0.0132	0.0641	87,399	18.48
65	0.0230	0.1089	81,798	14.57
70	0.0432	0.1950	72,894	11.05
75	0.0765	0.3212	58,677	8.12
80	0.1326	0.4979	39,829	5.77
85	0.2486	1	19,999	4.02

## WHO LIFE TABLE FOR 1999: COSTA RICA

### Males

$x$	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0105	0.0104	100,000	74.16
1	0.0005	0.0022	98,957	73.94
5	0.0002	0.0011	98,741	70.10
10	0.0003	0.0014	98,629	65.18
15	0.0006	0.0032	98,486	60.27
20	0.0010	0.0049	98,168	55.45
25	0.0012	0.0059	97,683	50.72
30	0.0017	0.0085	97,105	46.00
35	0.0018	0.0090	96,275	41.38
40	0.0024	0.0122	95,409	36.73
45	0.0036	0.0177	94,249	32.15
50	0.0049	0.0241	92,581	27.69
55	0.0086	0.0419	90,349	23.31
60	0.0134	0.0650	86,563	19.22
65	0.0205	0.0976	80,938	15.38
70	0.0347	0.1596	73,038	11.78
75	0.0591	0.2574	61,381	8.54
80	0.1416	0.5230	45,584	5.63
85	0.2462	1	21,744	4.06

### Females

0	0.0125	0.0124	100,000	78.82
1	0.0005	0.0021	98,763	78.81
5	0.0002	0.0011	98,557	74.97
10	0.0002	0.0011	98,452	70.04
15	0.0004	0.0018	98,343	65.12
20	0.0004	0.0022	98,170	60.23
25	0.0006	0.0028	97,953	55.36
30	0.0008	0.0038	97,676	50.51
35	0.0011	0.0054	97,306	45.69
40	0.0015	0.0076	96,778	40.93
45	0.0023	0.0114	96,044	36.22
50	0.0035	0.0173	94,948	31.61
55	0.0059	0.0289	93,307	27.12
60	0.0088	0.0431	90,614	22.85
65	0.0140	0.0674	86,710	18.77
70	0.0217	0.1028	80,862	14.95
75	0.0361	0.1656	72,553	11.37
80	0.0800	0.3333	60,537	8.13
85	0.1682	1	40,359	5.95



## WHO LIFE TABLE FOR 1999: COTE D'IVOIRE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0882	0.0831	100,000	47.05
1	0.0176	0.0674	91,690	50.28
5	0.0046	0.0230	85,512	49.80
10	0.0030	0.0149	83,547	45.91
15	0.0043	0.0214	82,303	41.57
20	0.0074	0.0362	80,545	37.42
25	0.0132	0.0639	77,630	33.73
30	0.0189	0.0902	72,672	30.86
35	0.0209	0.0991	66,117	28.68
40	0.0210	0.0997	59,564	26.55
45	0.0206	0.0980	53,624	24.22
50	0.0208	0.0990	48,367	21.58
55	0.0213	0.1010	43,580	18.68
60	0.0285	0.1330	39,178	15.49
65	0.0411	0.1859	33,969	12.49
70	0.0642	0.2749	27,653	9.78
75	0.0937	0.3752	20,050	7.58
80	0.1388	0.5048	12,527	5.71
85	0.2385	1	6,203	4.19

### Females

0	0.0689	0.0658	100,000	48.42
1	0.0162	0.0623	93,423	50.80
5	0.0045	0.0224	87,599	50.07
10	0.0030	0.0147	85,636	46.16
15	0.0051	0.0253	84,373	41.82
20	0.0109	0.0528	82,237	37.84
25	0.0174	0.0834	77,891	34.81
30	0.0208	0.0988	71,396	32.75
35	0.0188	0.0897	64,340	31.07
40	0.0171	0.0818	58,568	28.88
45	0.0149	0.0716	53,778	26.23
50	0.0150	0.0725	49,928	23.06
55	0.0174	0.0835	46,309	19.67
60	0.0239	0.1126	42,441	16.24
65	0.0359	0.1644	37,663	12.98
70	0.0583	0.2530	31,471	10.05
75	0.0924	0.3710	23,510	7.64
80	0.1388	0.5049	14,787	5.76
85	0.2333	1	7,321	4.29

## WHO LIFE TABLE FOR 1999: CROATIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0077	0.0077	100,000	69.07
1	0.0003	0.0012	99,234	68.60
5	0.0002	0.0008	99,112	64.69
10	0.0002	0.0011	99,033	59.74
15	0.0007	0.0036	98,922	54.80
20	0.0012	0.0058	98,561	49.99
25	0.0010	0.0050	97,993	45.27
30	0.0012	0.0058	97,507	40.48
35	0.0021	0.0105	96,942	35.70
40	0.0042	0.0209	95,926	31.05
45	0.0091	0.0447	93,917	26.67
50	0.0089	0.0434	89,717	22.80
55	0.0148	0.0714	85,820	18.72
60	0.0273	0.1276	79,692	14.97
65	0.0537	0.2367	69,527	11.79
70	0.0922	0.3746	53,068	9.67
75	0.0820	0.3402	33,186	8.96
80	0.1072	0.4228	21,896	7.30
85	0.1722	1	12,639	5.81

### Females

0	0.0057	0.0057	100,000	77.50
1	0.0002	0.0009	99,432	76.94
5	0.0001	0.0007	99,344	73.01
10	0.0001	0.0007	99,273	68.06
15	0.0003	0.0014	99,203	63.10
20	0.0003	0.0014	99,065	58.19
25	0.0004	0.0019	98,930	53.27
30	0.0005	0.0025	98,746	48.36
35	0.0008	0.0041	98,495	43.48
40	0.0015	0.0075	98,095	38.64
45	0.0031	0.0153	97,361	33.92
50	0.0035	0.0174	95,875	29.40
55	0.0054	0.0265	94,211	24.88
60	0.0092	0.0450	91,712	20.49
65	0.0177	0.0850	87,588	16.33
70	0.0481	0.2149	80,145	12.62
75	0.0563	0.2466	62,925	10.39
80	0.0821	0.3405	47,409	7.97
85	0.1725	1	31,265	5.80

## WHO LIFE TABLE FOR 1999: CUBA

### Males

$x$	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0073	0.0073	100,000	73.53
1	0.0006	0.0025	99,273	73.07
5	0.0003	0.0016	99,024	69.25
10	0.0004	0.0018	98,870	64.35
15	0.0010	0.0048	98,695	59.46
20	0.0012	0.0062	98,218	54.74
25	0.0014	0.0069	97,614	50.06
30	0.0016	0.0080	96,945	45.39
35	0.0023	0.0114	96,168	40.73
40	0.0029	0.0142	95,071	36.18
45	0.0044	0.0217	93,717	31.66
50	0.0064	0.0315	91,679	27.31
55	0.0097	0.0474	88,793	23.12
60	0.0160	0.0768	84,580	19.14
65	0.0250	0.1179	78,087	15.53
70	0.0417	0.1888	68,884	12.27
75	0.0630	0.2720	55,880	9.54
80	0.1026	0.4082	40,681	7.17
85	0.1854	1	24,076	5.39

### Females

0	0.0057	0.0057	100,000	77.39
1	0.0005	0.0021	99,429	76.83
5	0.0003	0.0014	99,223	72.99
10	0.0002	0.0012	99,083	68.09
15	0.0006	0.0029	98,960	63.17
20	0.0007	0.0033	98,674	58.35
25	0.0007	0.0035	98,343	53.53
30	0.0009	0.0044	97,996	48.72
35	0.0014	0.0070	97,569	43.92
40	0.0020	0.0098	96,881	39.21
45	0.0033	0.0162	95,933	34.57
50	0.0045	0.0223	94,374	30.10
55	0.0068	0.0335	92,268	25.73
60	0.0117	0.0570	89,179	21.54
65	0.0176	0.0843	84,097	17.69
70	0.0303	0.1409	77,008	14.09
75	0.0459	0.2058	66,159	10.99
80	0.0821	0.3407	52,544	8.19
85	0.1632	1	34,644	6.13

## WHO LIFE TABLE FOR 1999: CYPRUS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0061	0.0061	100,000	74.70
1	0.0007	0.0026	99,391	74.16
5	0.0002	0.0011	99,128	70.35
10	0.0001	0.0006	99,018	65.42
15	0.0010	0.0050	98,956	60.46
20	0.0012	0.0061	98,462	55.76
25	0.0008	0.0039	97,860	51.08
30	0.0009	0.0046	97,477	46.27
35	0.0014	0.0071	97,027	41.48
40	0.0019	0.0093	96,341	36.75
45	0.0030	0.0148	95,445	32.08
50	0.0038	0.0188	94,032	27.52
55	0.0075	0.0370	92,260	23.00
60	0.0120	0.0582	88,844	18.79
65	0.0233	0.1102	83,676	14.80
70	0.0422	0.1900	74,457	11.32
75	0.0724	0.3038	60,307	8.42
80	0.1240	0.4644	41,987	6.06
85	0.2310	1	22,488	4.33

### Females

0	0.0067	0.0067	100,000	78.76
1	0.0003	0.0012	99,334	78.29
5	0.0001	0.0006	99,211	74.38
10	0.0002	0.0008	99,153	69.43
15	0.0004	0.0022	99,074	64.48
20	0.0002	0.0012	98,861	59.61
25	0.0004	0.0020	98,744	54.68
30	0.0004	0.0021	98,549	49.78
35	0.0008	0.0039	98,340	44.88
40	0.0007	0.0033	97,957	40.05
45	0.0020	0.0099	97,636	35.17
50	0.0028	0.0138	96,669	30.50
55	0.0040	0.0199	95,332	25.89
60	0.0086	0.0422	93,433	21.37
65	0.0142	0.0684	89,491	17.20
70	0.0266	0.1246	83,370	13.28
75	0.0490	0.2168	72,984	9.83
80	0.0856	0.3475	57,158	6.90
85	0.2296	1	37,295	4.35

## WHO LIFE TABLE FOR 1999: CZECH REP

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0054	0.0054	100,000	71.31
1	0.0003	0.0011	99,463	70.69
5	0.0002	0.0010	99,351	66.77
10	0.0002	0.0010	99,252	61.84
15	0.0007	0.0034	99,149	56.90
20	0.0009	0.0046	98,814	52.08
25	0.0010	0.0051	98,363	47.31
30	0.0012	0.0058	97,857	42.54
35	0.0018	0.0090	97,285	37.78
40	0.0034	0.0167	96,412	33.10
45	0.0055	0.0271	94,807	28.61
50	0.0093	0.0454	92,242	24.34
55	0.0144	0.0693	88,058	20.38
60	0.0224	0.1059	81,958	16.71
65	0.0352	0.1617	73,275	13.39
70	0.0545	0.2399	61,424	10.49
75	0.0847	0.3493	46,691	8.02
80	0.1340	0.5019	30,379	5.98
85	0.2233	1	15,132	4.48

### Females

0	0.0043	0.0043	100,000	78.18
1	0.0002	0.0009	99,572	77.51
5	0.0001	0.0006	99,481	73.58
10	0.0002	0.0008	99,420	68.63
15	0.0003	0.0015	99,338	63.68
20	0.0003	0.0015	99,193	58.77
25	0.0003	0.0014	99,042	53.86
30	0.0004	0.0019	98,903	48.93
35	0.0008	0.0038	98,714	44.02
40	0.0014	0.0068	98,340	39.18
45	0.0022	0.0111	97,672	34.43
50	0.0036	0.0179	96,584	29.79
55	0.0060	0.0295	94,854	25.28
60	0.0097	0.0472	92,053	20.98
65	0.0166	0.0795	87,712	16.89
70	0.0297	0.1385	80,736	13.14
75	0.0520	0.2302	69,558	9.85
80	0.0983	0.3945	53,548	7.04
85	0.1999	1	32,421	5.00

**WHO LIFE TABLE FOR 1999: DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA**

**Males**

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0723	0.0679	100,000	57.83
1	0.0088	0.0345	93,211	61.03
5	0.0024	0.0118	89,991	59.16
10	0.0015	0.0072	88,928	54.84
15	0.0018	0.0089	88,286	50.22
20	0.0025	0.0126	87,503	45.64
25	0.0031	0.0155	86,402	41.19
30	0.0038	0.0188	85,063	36.80
35	0.0047	0.0231	83,464	32.46
40	0.0071	0.0347	81,537	28.17
45	0.0103	0.0504	78,710	24.09
50	0.0162	0.0778	74,743	20.23
55	0.0231	0.1093	68,925	16.73
60	0.0380	0.1735	61,393	13.48
65	0.0547	0.2406	50,739	10.78
70	0.0818	0.3395	38,531	8.41
75	0.1222	0.4681	25,451	6.44
80	0.1772	0.6139	13,537	4.91
85	0.2666	1	5,227	3.75

**Females**

0	0.0651	0.0615	100,000	60.47
1	0.0104	0.0404	93,855	63.43
5	0.0028	0.0141	90,060	62.03
10	0.0015	0.0073	88,787	57.89
15	0.0022	0.0111	88,135	53.30
20	0.0031	0.0151	87,154	48.87
25	0.0029	0.0146	85,835	44.58
30	0.0032	0.0157	84,583	40.20
35	0.0034	0.0167	83,258	35.80
40	0.0045	0.0222	81,872	31.37
45	0.0063	0.0310	80,052	27.02
50	0.0108	0.0528	77,572	22.81
55	0.0157	0.0755	73,479	18.94
60	0.0273	0.1277	67,932	15.28
65	0.0401	0.1821	59,255	12.15
70	0.0671	0.2872	48,464	9.30
75	0.1042	0.4134	34,545	7.04
80	0.1598	0.5710	20,264	5.24
85	0.2573	1	8,694	3.89

## WHO LIFE TABLE FOR 1999: DEM. REPUBLIC OF THE CONGO

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0983	0.0920	100,000	45.00
1	0.0227	0.0860	90,799	48.53
5	0.0066	0.0326	82,988	48.95
10	0.0042	0.0207	80,285	45.51
15	0.0058	0.0286	78,620	41.42
20	0.0081	0.0395	76,374	37.57
25	0.0114	0.0553	73,361	34.01
30	0.0145	0.0702	69,307	30.85
35	0.0158	0.0760	64,444	27.99
40	0.0181	0.0865	59,543	25.09
45	0.0196	0.0934	54,394	22.23
50	0.0226	0.1068	49,311	19.26
55	0.0288	0.1341	44,047	16.27
60	0.0395	0.1798	38,138	13.40
65	0.0551	0.2416	31,281	10.79
70	0.0849	0.3479	23,723	8.44
75	0.1163	0.4446	15,470	6.67
80	0.1700	0.5827	8,592	5.12
85	0.2463	1	3,586	4.06

### Females

0	0.0834	0.0788	100,000	46.49
1	0.0211	0.0804	92,116	49.44
5	0.0065	0.0321	84,705	49.63
10	0.0043	0.0215	81,985	46.19
15	0.0059	0.0289	80,224	42.15
20	0.0092	0.0448	77,908	38.33
25	0.0128	0.0618	74,419	35.01
30	0.0150	0.0723	69,819	32.15
35	0.0153	0.0736	64,772	29.46
40	0.0155	0.0745	60,003	26.60
45	0.0157	0.0756	55,533	23.54
50	0.0183	0.0874	51,332	20.26
55	0.0239	0.1129	46,848	16.96
60	0.0352	0.1617	41,558	13.80
65	0.0524	0.2312	34,838	10.98
70	0.0817	0.3370	26,784	8.55
75	0.1162	0.4442	17,758	6.68
80	0.1677	0.5771	9,870	5.13
85	0.2502	1	4,174	4.00

## WHO LIFE TABLE FOR 1999: DENMARK

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0056	0.0056	100,000	72.94
1	0.0003	0.0011	99,442	72.35
5	0.0002	0.0008	99,328	68.43
10	0.0002	0.0010	99,251	63.48
15	0.0006	0.0028	99,151	58.55
20	0.0008	0.0040	98,873	53.70
25	0.0008	0.0040	98,478	48.91
30	0.0013	0.0064	98,087	44.09
35	0.0018	0.0089	97,457	39.36
40	0.0031	0.0153	96,590	34.69
45	0.0041	0.0201	95,110	30.19
50	0.0065	0.0322	93,194	25.76
55	0.0109	0.0528	90,195	21.54
60	0.0186	0.0889	85,430	17.60
65	0.0313	0.1452	77,832	14.07
70	0.0500	0.2221	66,533	11.04
75	0.0795	0.3315	51,757	8.48
80	0.1200	0.4614	34,597	6.44
85	0.2075	1	18,633	4.82

### Females

0	0.0045	0.0045	100,000	78.12
1	0.0003	0.0012	99,548	77.48
5	0.0001	0.0006	99,430	73.57
10	0.0002	0.0008	99,371	68.61
15	0.0003	0.0013	99,294	63.66
20	0.0003	0.0013	99,166	58.74
25	0.0004	0.0021	99,034	53.82
30	0.0006	0.0029	98,826	48.92
35	0.0010	0.0051	98,537	44.06
40	0.0018	0.0088	98,035	39.27
45	0.0029	0.0143	97,176	34.60
50	0.0045	0.0220	95,787	30.06
55	0.0071	0.0348	93,678	25.68
60	0.0127	0.0613	90,414	21.52
65	0.0200	0.0954	84,870	17.76
70	0.0295	0.1374	76,776	14.37
75	0.0473	0.2115	66,227	11.26
80	0.0786	0.3284	52,218	8.62
85	0.1513	1	35,068	6.61



## WHO LIFE TABLE FOR 1999: DJIBOUTI

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1424	0.1295	100,000	44.78
1	0.0119	0.0463	87,047	50.40
5	0.0026	0.0129	83,020	48.77
10	0.0021	0.0104	81,949	44.37
15	0.0029	0.0145	81,099	39.81
20	0.0050	0.0245	79,922	35.36
25	0.0106	0.0518	77,965	31.19
30	0.0168	0.0805	73,928	27.75
35	0.0198	0.0944	67,974	24.96
40	0.0211	0.1003	61,559	22.30
45	0.0234	0.1106	55,383	19.51
50	0.0287	0.1337	49,260	16.63
55	0.0339	0.1564	42,673	13.81
60	0.0555	0.2438	35,997	10.90
65	0.0766	0.3204	27,222	8.61
70	0.1204	0.4585	18,500	6.52
75	0.1679	0.5810	10,018	5.01
80	0.2478	0.7423	4,197	3.70
85	0.3667	1	1,082	2.73

### Females

0	0.1225	0.1128	100,000	45.06
1	0.0143	0.0554	88,716	49.76
5	0.0025	0.0124	83,805	48.58
10	0.0020	0.0099	82,764	44.16
15	0.0041	0.0202	81,945	39.58
20	0.0089	0.0437	80,291	35.34
25	0.0156	0.0750	76,784	31.84
30	0.0184	0.0879	71,026	29.22
35	0.0178	0.0854	64,782	26.79
40	0.0161	0.0774	59,251	24.06
45	0.0168	0.0807	54,666	20.87
50	0.0229	0.1081	50,253	17.48
55	0.0278	0.1299	44,821	14.30
60	0.0521	0.2305	39,000	11.06
65	0.0754	0.3163	30,011	8.62
70	0.1206	0.4589	20,520	6.48
75	0.1711	0.5886	11,103	4.94
80	0.2536	0.7527	4,568	3.65
85	0.3638	1	1,130	2.75

## WHO LIFE TABLE FOR 1999: DOMINICA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0068	0.0067	100,000	74.00
1	0.0005	0.0019	99,327	73.51
5	0.0002	0.0009	99,142	69.64
10	0.0002	0.0010	99,058	64.70
15	0.0006	0.0032	98,960	59.76
20	0.0011	0.0055	98,646	54.94
25	0.0013	0.0064	98,103	50.23
30	0.0015	0.0076	97,471	45.54
35	0.0019	0.0094	96,729	40.87
40	0.0024	0.0118	95,819	36.23
45	0.0034	0.0169	94,687	31.64
50	0.0054	0.0265	93,083	27.14
55	0.0087	0.0425	90,616	22.81
60	0.0149	0.0716	86,764	18.71
65	0.0237	0.1120	80,552	14.96
70	0.0412	0.1866	71,534	11.53
75	0.0693	0.2955	58,184	8.61
80	0.1230	0.4705	40,990	6.17
85	0.2260	1	21,705	4.43

### Females

0	0.0053	0.0053	100,000	80.22
1	0.0004	0.0016	99,472	79.64
5	0.0001	0.0006	99,313	75.77
10	0.0001	0.0006	99,252	70.81
15	0.0002	0.0011	99,192	65.85
20	0.0003	0.0014	99,087	60.92
25	0.0003	0.0016	98,951	56.00
30	0.0005	0.0023	98,788	51.09
35	0.0007	0.0033	98,565	46.20
40	0.0010	0.0049	98,237	41.34
45	0.0016	0.0078	97,757	36.54
50	0.0026	0.0130	96,998	31.80
55	0.0043	0.0213	95,739	27.19
60	0.0075	0.0368	93,701	22.72
65	0.0122	0.0592	90,248	18.50
70	0.0217	0.1027	84,904	14.50
75	0.0401	0.1822	76,181	10.88
80	0.0826	0.3422	62,301	7.75
85	0.1826	1	40,981	5.48

## WHO LIFE TABLE FOR 1999: DOMINICAN REPUBLIC

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0469	0.0450	100,000	71.16
1	0.0017	0.0070	95,500	73.51
5	0.0005	0.0026	94,835	70.01
10	0.0006	0.0032	94,591	65.19
15	0.0018	0.0087	94,289	60.39
20	0.0027	0.0136	93,466	55.90
25	0.0027	0.0134	92,198	51.63
30	0.0032	0.0157	90,962	47.30
35	0.0032	0.0159	89,536	43.01
40	0.0037	0.0183	88,112	38.67
45	0.0047	0.0232	86,502	34.34
50	0.0071	0.0350	84,495	30.10
55	0.0098	0.0479	81,538	26.10
60	0.0132	0.0640	77,635	22.29
65	0.0172	0.0825	72,667	18.64
70	0.0283	0.1319	66,672	15.09
75	0.0370	0.1686	57,875	12.02
80	0.0608	0.2610	48,117	8.99
85	0.1576	1	35,560	6.35

### Females

0	0.0391	0.0378	100,000	73.03
1	0.0020	0.0081	96,222	74.90
5	0.0006	0.0029	95,442	71.49
10	0.0005	0.0025	95,164	66.70
15	0.0009	0.0045	94,930	61.85
20	0.0011	0.0055	94,504	57.12
25	0.0012	0.0062	93,988	52.42
30	0.0018	0.0088	93,406	47.73
35	0.0024	0.0118	92,582	43.14
40	0.0034	0.0170	91,489	38.62
45	0.0043	0.0211	89,936	34.24
50	0.0065	0.0317	88,039	29.93
55	0.0101	0.0491	85,245	25.83
60	0.0142	0.0685	81,059	22.03
65	0.0167	0.0803	75,503	18.47
70	0.0293	0.1360	69,443	14.87
75	0.0386	0.1752	59,996	11.83
80	0.0605	0.2601	49,484	8.84
85	0.1627	1	36,615	6.15

## WHO LIFE TABLE FOR 1999: ECUADOR

### Males

x	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0266	0.0259	100,000	67.20
1	0.0036	0.0142	97,406	67.99
5	0.0009	0.0044	96,023	64.94
10	0.0006	0.0030	95,604	60.22
15	0.0010	0.0051	95,317	55.39
20	0.0016	0.0081	94,835	50.66
25	0.0020	0.0098	94,065	46.05
30	0.0024	0.0120	93,144	41.48
35	0.0033	0.0162	92,028	36.96
40	0.0044	0.0220	90,539	32.52
45	0.0063	0.0309	88,548	28.20
50	0.0094	0.0460	85,814	24.02
55	0.0142	0.0686	81,868	20.05
60	0.0225	0.1063	76,256	16.35
65	0.0356	0.1634	68,149	12.99
70	0.0592	0.2579	57,014	10.04
75	0.0915	0.3724	42,310	7.66
80	0.1412	0.5218	26,553	5.73
85	0.2353	1	12,697	4.25

### Females

0	0.0192	0.0189	100,000	70.08
1	0.0037	0.0146	98,111	70.42
5	0.0008	0.0041	96,677	67.44
10	0.0005	0.0024	96,276	62.71
15	0.0007	0.0035	96,042	57.86
20	0.0010	0.0052	95,702	53.06
25	0.0014	0.0067	95,204	48.32
30	0.0018	0.0087	94,563	43.63
35	0.0024	0.0121	93,737	39.00
40	0.0031	0.0155	92,606	34.44
45	0.0043	0.0213	91,167	29.95
50	0.0064	0.0315	89,223	25.54
55	0.0099	0.0485	86,411	21.29
60	0.0171	0.0819	82,224	17.25
65	0.0287	0.1341	75,490	13.57
70	0.0527	0.2327	65,369	10.28
75	0.0875	0.3591	50,158	7.64
80	0.1450	0.5320	32,145	5.52
85	0.2531	1	15,043	3.95

## WHO LIFE TABLE FOR 1999: EGYPT

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0616	0.0584	100,000	64.34
1	0.0042	0.0166	94,163	67.32
5	0.0010	0.0051	92,595	64.44
10	0.0008	0.0042	92,119	59.76
15	0.0010	0.0049	91,735	55.00
20	0.0011	0.0054	91,288	50.25
25	0.0014	0.0071	90,791	45.51
30	0.0019	0.0093	90,145	40.82
35	0.0027	0.0136	89,305	36.18
40	0.0037	0.0181	88,087	31.65
45	0.0055	0.0271	86,491	27.19
50	0.0096	0.0467	84,144	22.87
55	0.0145	0.0698	80,217	18.87
60	0.0253	0.1192	74,621	15.10
65	0.0393	0.1789	65,728	11.81
70	0.0709	0.3012	53,966	8.83
75	0.1131	0.4408	37,712	6.56
80	0.1795	0.6195	21,090	4.76
85	0.2896	1	8,024	3.45

### Females

0	0.0562	0.0535	100,000	65.74
1	0.0049	0.0195	94,647	68.46
5	0.0009	0.0046	92,799	65.79
10	0.0007	0.0037	92,370	61.08
15	0.0009	0.0045	92,030	56.30
20	0.0010	0.0050	91,618	51.54
25	0.0013	0.0066	91,157	46.79
30	0.0015	0.0073	90,552	42.08
35	0.0022	0.0111	89,890	37.38
40	0.0026	0.0130	88,889	32.77
45	0.0043	0.0212	87,731	28.17
50	0.0076	0.0371	85,875	23.72
55	0.0107	0.0520	82,691	19.54
60	0.0222	0.1053	78,389	15.48
65	0.0354	0.1624	70,135	12.00
70	0.0660	0.2833	58,742	8.85
75	0.1152	0.4472	42,102	6.35
80	0.1935	0.6520	23,275	4.47
85	0.3163	1	8,099	3.16

## WHO LIFE TABLE FOR 1999: EL SALVADOR

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0362	0.0350	100,000	67.11
1	0.0018	0.0070	96,499	68.54
5	0.0006	0.0031	95,822	65.02
10	0.0007	0.0035	95,527	60.21
15	0.0021	0.0106	95,194	55.41
20	0.0034	0.0168	94,186	50.98
25	0.0036	0.0180	92,601	46.81
30	0.0040	0.0196	90,935	42.62
35	0.0045	0.0224	89,151	38.42
40	0.0053	0.0261	87,151	34.25
45	0.0070	0.0344	84,878	30.10
50	0.0100	0.0487	81,958	26.08
55	0.0144	0.0694	77,967	22.29
60	0.0214	0.1018	72,553	18.76
65	0.0295	0.1373	65,168	15.61
70	0.0439	0.1970	56,223	12.70
75	0.0622	0.2669	45,144	10.23
80	0.0881	0.3559	33,096	8.09
85	0.1589	1	21,318	6.30

### Females

0	0.0286	0.0278	100,000	72.95
1	0.0016	0.0066	97,215	74.03
5	0.0005	0.0024	96,576	70.51
10	0.0004	0.0022	96,344	65.68
15	0.0008	0.0040	96,129	60.82
20	0.0010	0.0048	95,739	56.06
25	0.0012	0.0059	95,276	51.32
30	0.0015	0.0076	94,715	46.61
35	0.0022	0.0111	93,995	41.94
40	0.0029	0.0144	92,954	37.39
45	0.0043	0.0211	91,618	32.89
50	0.0068	0.0334	89,685	28.55
55	0.0104	0.0505	86,692	24.45
60	0.0149	0.0720	82,316	20.62
65	0.0203	0.0965	76,389	17.02
70	0.0308	0.1428	69,017	13.58
75	0.0475	0.2109	59,164	10.44
80	0.0841	0.3426	46,688	7.60
85	0.1865	1	30,691	5.36

## WHO LIFE TABLE FOR 1999: EQUATORIAL GUINEA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0857	0.0809	100,000	51.30
1	0.0182	0.0699	91,913	54.79
5	0.0053	0.0263	85,493	54.78
10	0.0035	0.0174	83,240	51.20
15	0.0046	0.0226	81,796	47.06
20	0.0062	0.0304	79,950	43.09
25	0.0076	0.0375	77,520	39.36
30	0.0080	0.0392	74,614	35.79
35	0.0092	0.0449	71,690	32.15
40	0.0109	0.0533	68,469	28.55
45	0.0127	0.0613	64,823	25.01
50	0.0160	0.0769	60,848	21.48
55	0.0215	0.1019	56,172	18.06
60	0.0304	0.1414	50,450	14.83
65	0.0461	0.2063	43,319	11.86
70	0.0709	0.2994	34,383	9.30
75	0.1013	0.3992	24,090	7.25
80	0.1509	0.5361	14,473	5.51
85	0.2373	1	6,715	4.21

### Females

0	0.0793	0.0751	100,000	55.32
1	0.0154	0.0594	92,490	58.79
5	0.0045	0.0223	86,996	58.40
10	0.0029	0.0145	85,059	54.68
15	0.0039	0.0195	83,822	50.45
20	0.0053	0.0260	82,188	46.40
25	0.0060	0.0295	80,051	42.57
30	0.0066	0.0325	77,688	38.79
35	0.0077	0.0379	75,164	35.01
40	0.0084	0.0411	72,318	31.29
45	0.0092	0.0451	69,346	27.52
50	0.0112	0.0546	66,215	23.70
55	0.0158	0.0758	62,598	19.93
60	0.0217	0.1027	57,854	16.36
65	0.0373	0.1704	51,912	12.94
70	0.0588	0.2550	43,066	10.10
75	0.0927	0.3722	32,086	7.74
80	0.1317	0.4858	20,145	5.93
85	0.2296	1	10,358	4.35

## WHO LIFE TABLE FOR 1999: ERITREA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0803	0.0760	100,000	46.48
1	0.0192	0.0735	92,401	49.28
5	0.0054	0.0268	85,614	49.06
10	0.0036	0.0179	83,320	45.34
15	0.0051	0.0253	81,828	41.12
20	0.0080	0.0390	79,760	37.12
25	0.0126	0.0612	76,647	33.53
30	0.0164	0.0788	71,953	30.55
35	0.0180	0.0862	66,281	27.95
40	0.0193	0.0919	60,569	25.36
45	0.0199	0.0946	55,001	22.67
50	0.0218	0.1032	49,798	19.78
55	0.0257	0.1207	44,661	16.76
60	0.0349	0.1606	39,272	13.72
65	0.0531	0.2337	32,963	10.87
70	0.0821	0.3384	25,259	8.44
75	0.1255	0.4710	16,711	6.52
80	0.1626	0.5651	8,840	5.24
85	0.2467	1	3,845	4.05

### Females

0	0.0671	0.0641	100,000	46.65
1	0.0195	0.0743	93,592	48.82
5	0.0058	0.0288	86,634	48.61
10	0.0039	0.0195	84,138	44.98
15	0.0063	0.0308	82,498	40.83
20	0.0100	0.0487	79,958	37.04
25	0.0152	0.0731	76,067	33.81
30	0.0170	0.0816	70,505	31.28
35	0.0175	0.0839	64,752	28.84
40	0.0180	0.0860	59,322	26.25
45	0.0170	0.0816	54,221	23.48
50	0.0187	0.0893	49,799	20.35
55	0.0246	0.1158	45,352	17.10
60	0.0333	0.1538	40,102	14.01
65	0.0503	0.2229	33,935	11.10
70	0.0796	0.3298	26,371	8.58
75	0.1233	0.4645	17,674	6.62
80	0.1600	0.5587	9,464	5.33
85	0.2405	1	4,177	4.16



## WHO LIFE TABLE FOR 1999: ESTONIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0089	0.0088	100,000	64.21
1	0.0007	0.0027	99,115	63.78
5	0.0004	0.0020	98,846	59.95
10	0.0004	0.0018	98,649	55.07
15	0.0011	0.0052	98,467	50.16
20	0.0019	0.0094	97,950	45.41
25	0.0026	0.0130	97,030	40.82
30	0.0040	0.0197	95,773	36.32
35	0.0056	0.0277	93,888	32.00
40	0.0084	0.0412	91,285	27.84
45	0.0137	0.0661	87,524	23.93
50	0.0195	0.0929	81,739	20.45
55	0.0265	0.1244	74,145	17.29
60	0.0379	0.1730	64,920	14.39
65	0.0531	0.2345	53,688	11.88
70	0.0686	0.2928	41,100	9.75
75	0.0943	0.3816	29,067	7.75
80	0.1417	0.5231	17,975	5.99
85	0.2076	1	8,572	4.82

### Females

0	0.0080	0.0079	100,000	75.40
1	0.0007	0.0028	99,210	75.00
5	0.0003	0.0013	98,935	71.21
10	0.0001	0.0006	98,804	66.30
15	0.0004	0.0019	98,743	61.34
20	0.0006	0.0031	98,560	56.45
25	0.0006	0.0030	98,250	51.62
30	0.0009	0.0046	97,960	46.76
35	0.0018	0.0089	97,506	41.97
40	0.0024	0.0120	96,635	37.32
45	0.0038	0.0189	95,471	32.75
50	0.0062	0.0304	93,664	28.33
55	0.0089	0.0434	90,820	24.14
60	0.0124	0.0601	86,883	20.12
65	0.0197	0.0938	81,658	16.25
70	0.0336	0.1550	73,996	12.67
75	0.0585	0.2552	62,528	9.54
80	0.1024	0.4075	46,573	6.95
85	0.1995	1	27,593	5.01

## WHO LIFE TABLE FOR 1999: ETHIOPIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1112	0.1031	100,000	41.40
1	0.0249	0.0941	89,685	45.13
5	0.0068	0.0333	81,243	45.65
10	0.0044	0.0220	78,536	42.14
15	0.0063	0.0310	76,811	38.03
20	0.0098	0.0478	74,431	34.17
25	0.0157	0.0757	70,870	30.76
30	0.0210	0.0999	65,504	28.07
35	0.0233	0.1102	58,962	25.91
40	0.0245	0.1153	52,468	23.81
45	0.0248	0.1169	46,418	21.59
50	0.0262	0.1230	40,991	19.11
55	0.0294	0.1371	35,950	16.44
60	0.0379	0.1730	31,020	13.66
65	0.0545	0.2391	25,653	10.99
70	0.0813	0.3357	19,519	8.68
75	0.1138	0.4372	12,966	6.85
80	0.1601	0.5589	7,298	5.35
85	0.2373	1	3,219	4.21

### Females

0	0.1027	0.0959	100,000	43.07
1	0.0235	0.0890	90,414	46.61
5	0.0065	0.0318	82,364	47.01
10	0.0044	0.0217	79,743	43.47
15	0.0066	0.0323	78,011	39.38
20	0.0117	0.0570	75,490	35.61
25	0.0189	0.0901	71,184	32.62
30	0.0224	0.1060	64,770	30.60
35	0.0206	0.0978	57,905	28.93
40	0.0193	0.0921	52,245	26.79
45	0.0175	0.0838	47,432	24.26
50	0.0181	0.0867	43,455	21.25
55	0.0223	0.1054	39,686	18.03
60	0.0317	0.1469	35,503	14.86
65	0.0440	0.1976	30,288	11.99
70	0.0708	0.2990	24,303	9.33
75	0.1013	0.3993	17,037	7.29
80	0.1471	0.5265	10,235	5.57
85	0.2372	1	4,847	4.21

## WHO LIFE TABLE FOR 1999: FIJI

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0167	0.0165	100,000	63.99
1	0.0022	0.0087	98,354	64.06
5	0.0008	0.0041	97,496	60.61
10	0.0007	0.0034	97,095	55.85
15	0.0011	0.0057	96,766	51.03
20	0.0015	0.0077	96,215	46.31
25	0.0016	0.0078	95,473	41.65
30	0.0023	0.0112	94,724	36.96
35	0.0029	0.0144	93,664	32.35
40	0.0043	0.0213	92,312	27.79
45	0.0073	0.0356	90,348	23.34
50	0.0128	0.0622	87,130	19.11
55	0.0228	0.1078	81,711	15.21
60	0.0418	0.1894	72,901	11.75
65	0.0710	0.3014	59,094	8.91
70	0.1153	0.4476	41,280	6.67
75	0.1713	0.5997	22,802	5.05
80	0.2382	0.7465	9,128	3.87
85	0.3438	1	2,314	2.91

### Females

0	0.0119	0.0118	100,000	69.19
1	0.0018	0.0070	98,823	69.01
5	0.0005	0.0023	98,128	65.49
10	0.0004	0.0019	97,906	60.63
15	0.0007	0.0035	97,720	55.74
20	0.0010	0.0050	97,374	50.93
25	0.0010	0.0049	96,886	46.17
30	0.0012	0.0062	96,414	41.39
35	0.0015	0.0075	95,819	36.63
40	0.0023	0.0114	95,105	31.88
45	0.0039	0.0191	94,024	27.22
50	0.0068	0.0336	92,226	22.70
55	0.0120	0.0584	89,125	18.41
60	0.0234	0.1104	83,917	14.39
65	0.0437	0.1970	74,649	10.87
70	0.0837	0.3460	59,944	7.93
75	0.1381	0.5133	39,205	5.80
80	0.2054	0.6786	19,081	4.27
85	0.3324	1	6,132	3.01

## WHO LIFE TABLE FOR 1999: FINLAND

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0040	0.0040	100,000	73.39
1	0.0002	0.0006	99,601	72.69
5	0.0002	0.0008	99,539	68.73
10	0.0002	0.0012	99,459	63.78
15	0.0006	0.0029	99,337	58.86
20	0.0011	0.0055	99,052	54.02
25	0.0013	0.0064	98,511	49.30
30	0.0015	0.0074	97,880	44.61
35	0.0022	0.0110	97,158	39.92
40	0.0033	0.0166	96,087	35.34
45	0.0049	0.0241	94,495	30.89
50	0.0065	0.0318	92,218	26.59
55	0.0106	0.0515	89,285	22.38
60	0.0159	0.0763	84,684	18.46
65	0.0275	0.1285	78,220	14.78
70	0.0438	0.1972	68,172	11.59
75	0.0719	0.3048	54,729	8.82
80	0.1143	0.4445	38,046	6.60
85	0.2052	1	21,134	4.87

### Females

0	0.0033	0.0033	100,000	80.73
1	0.0002	0.0009	99,675	80.00
5	0.0001	0.0007	99,588	76.07
10	0.0001	0.0006	99,517	71.12
15	0.0002	0.0012	99,454	66.16
20	0.0003	0.0015	99,330	61.24
25	0.0003	0.0014	99,180	56.33
30	0.0005	0.0026	99,042	51.41
35	0.0008	0.0041	98,784	46.53
40	0.0014	0.0069	98,381	41.71
45	0.0019	0.0096	97,703	36.99
50	0.0026	0.0131	96,768	32.32
55	0.0041	0.0201	95,497	27.72
60	0.0062	0.0305	93,574	23.23
65	0.0113	0.0549	90,718	18.89
70	0.0207	0.0983	85,740	14.84
75	0.0392	0.1786	77,309	11.18
80	0.0758	0.3185	63,503	8.07
85	0.1762	1	43,274	5.68

## WHO LIFE TABLE FOR 1999: FRANCE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0056	0.0055	100,000	74.86
1	0.0003	0.0013	99,446	74.28
5	0.0002	0.0009	99,318	70.37
10	0.0002	0.0010	99,230	65.43
15	0.0007	0.0033	99,130	60.49
20	0.0012	0.0058	98,802	55.69
25	0.0013	0.0066	98,225	51.00
30	0.0017	0.0083	97,581	46.32
35	0.0022	0.0110	96,768	41.69
40	0.0033	0.0162	95,701	37.12
45	0.0046	0.0226	94,151	32.69
50	0.0067	0.0331	92,020	28.39
55	0.0099	0.0482	88,971	24.28
60	0.0151	0.0729	84,687	20.38
65	0.0227	0.1072	78,514	16.79
70	0.0338	0.1560	70,094	13.51
75	0.0506	0.2245	59,163	10.54
80	0.0909	0.3704	45,883	7.86
85	0.1661	1	28,889	6.02

### Females

0	0.0041	0.0041	100,000	83.64
1	0.0002	0.0009	99,590	82.98
5	0.0001	0.0006	99,500	79.05
10	0.0001	0.0006	99,440	74.10
15	0.0003	0.0013	99,381	69.14
20	0.0004	0.0019	99,254	64.23
25	0.0005	0.0023	99,064	59.35
30	0.0007	0.0033	98,840	54.47
35	0.0009	0.0045	98,517	49.64
40	0.0013	0.0064	98,073	44.86
45	0.0018	0.0092	97,442	40.13
50	0.0026	0.0132	96,547	35.48
55	0.0037	0.0181	95,276	30.92
60	0.0053	0.0264	93,548	26.45
65	0.0082	0.0403	91,083	22.09
70	0.0137	0.0665	87,412	17.92
75	0.0234	0.1105	81,603	14.01
80	0.0499	0.2218	72,589	10.44
85	0.1297	1	56,487	7.71

## WHO LIFE TABLE FOR 1999: GABON

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0488	0.0472	100,000	54.52
1	0.0125	0.0485	95,281	56.20
5	0.0036	0.0179	90,660	54.99
10	0.0025	0.0122	89,035	50.95
15	0.0034	0.0170	87,950	46.54
20	0.0053	0.0262	86,456	42.30
25	0.0080	0.0392	84,194	38.37
30	0.0104	0.0505	80,892	34.84
35	0.0114	0.0556	76,807	31.56
40	0.0128	0.0618	72,535	28.27
45	0.0137	0.0664	68,052	24.97
50	0.0162	0.0779	63,534	21.57
55	0.0202	0.0960	58,585	18.18
60	0.0287	0.1337	52,959	14.84
65	0.0448	0.2010	45,877	11.75
70	0.0712	0.3005	36,654	9.08
75	0.1075	0.4183	25,641	6.96
80	0.1603	0.5594	14,914	5.27
85	0.2476	1	6,572	4.04

### Females

0	0.0451	0.0438	100,000	57.45
1	0.0109	0.0425	95,625	59.06
5	0.0033	0.0164	91,565	57.61
10	0.0023	0.0115	90,065	53.53
15	0.0032	0.0161	89,030	49.12
20	0.0057	0.0280	87,597	44.88
25	0.0083	0.0408	85,141	41.10
30	0.0098	0.0479	81,670	37.74
35	0.0097	0.0475	77,755	34.52
40	0.0100	0.0487	74,058	31.12
45	0.0095	0.0465	70,451	27.58
50	0.0110	0.0536	67,178	23.81
55	0.0146	0.0702	63,580	20.01
60	0.0219	0.1037	59,115	16.33
65	0.0348	0.1598	52,987	12.93
70	0.0592	0.2564	44,522	9.93
75	0.0937	0.3753	33,105	7.52
80	0.1407	0.5098	20,681	5.63
85	0.2443	1	10,138	4.09

## WHO LIFE TABLE FOR 1999: GAMBIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0578	0.0555	100,000	55.93
1	0.0129	0.0500	94,446	58.20
5	0.0037	0.0182	89,728	57.18
10	0.0024	0.0120	88,091	53.20
15	0.0034	0.0167	87,031	48.81
20	0.0048	0.0237	85,580	44.60
25	0.0067	0.0329	83,550	40.62
30	0.0081	0.0398	80,800	36.92
35	0.0092	0.0452	77,580	33.35
40	0.0104	0.0504	74,076	29.81
45	0.0118	0.0572	70,339	26.26
50	0.0139	0.0672	66,316	22.70
55	0.0181	0.0866	61,861	19.16
60	0.0253	0.1190	56,502	15.74
65	0.0398	0.1808	49,778	12.52
70	0.0633	0.2719	40,778	9.75
75	0.0958	0.3822	29,691	7.49
80	0.1426	0.5148	18,344	5.67
85	0.2358	1	8,901	4.24

### Females

0	0.0543	0.0523	100,000	58.87
1	0.0110	0.0429	94,766	61.11
5	0.0031	0.0155	90,696	59.78
10	0.0020	0.0098	89,291	55.68
15	0.0034	0.0167	88,414	51.21
20	0.0046	0.0229	86,939	47.03
25	0.0065	0.0322	84,946	43.08
30	0.0073	0.0359	82,214	39.43
35	0.0088	0.0433	79,261	35.80
40	0.0078	0.0385	75,832	32.31
45	0.0082	0.0399	72,915	28.50
50	0.0101	0.0493	70,002	24.58
55	0.0131	0.0636	66,553	20.73
60	0.0203	0.0966	62,323	16.96
65	0.0315	0.1459	56,300	13.51
70	0.0519	0.2288	48,088	10.40
75	0.0864	0.3516	37,084	7.77
80	0.1346	0.4937	24,045	5.71
85	0.2474	1	12,174	4.04

## WHO LIFE TABLE FOR 1999: GEORGIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0161	0.0158	100,000	69.42
1	0.0010	0.0041	98,417	69.53
5	0.0003	0.0016	98,016	65.81
10	0.0004	0.0022	97,855	60.92
15	0.0008	0.0038	97,636	56.05
20	0.0013	0.0064	97,263	51.25
25	0.0018	0.0089	96,636	46.57
30	0.0023	0.0115	95,777	41.96
35	0.0031	0.0155	94,672	37.42
40	0.0046	0.0228	93,209	32.97
45	0.0073	0.0361	91,080	28.69
50	0.0103	0.0501	87,794	24.67
55	0.0154	0.0741	83,395	20.83
60	0.0230	0.1087	77,215	17.30
65	0.0331	0.1529	68,821	14.11
70	0.0514	0.2277	58,298	11.20
75	0.0754	0.3173	45,023	8.77
80	0.1159	0.4494	30,738	6.68
85	0.1962	1	16,924	5.10

### Females

0	0.0125	0.0124	100,000	76.70
1	0.0009	0.0034	98,760	76.66
5	0.0003	0.0014	98,421	72.92
10	0.0002	0.0009	98,288	68.02
15	0.0003	0.0016	98,199	63.08
20	0.0006	0.0027	98,039	58.18
25	0.0006	0.0031	97,770	53.33
30	0.0008	0.0039	97,471	48.49
35	0.0010	0.0050	97,095	43.66
40	0.0016	0.0080	96,605	38.87
45	0.0024	0.0119	95,837	34.16
50	0.0042	0.0210	94,697	29.55
55	0.0063	0.0309	92,709	25.13
60	0.0113	0.0551	89,844	20.85
65	0.0185	0.0885	84,894	16.92
70	0.0314	0.1457	77,381	13.32
75	0.0537	0.2369	66,103	10.16
80	0.0903	0.3684	50,445	7.54
85	0.1825	1	31,863	5.48



## WHO LIFE TABLE FOR 1999: GERMANY

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0050	0.0050	100,000	73.73
1	0.0003	0.0012	99,499	73.10
5	0.0001	0.0007	99,381	69.19
10	0.0002	0.0008	99,309	64.23
15	0.0007	0.0035	99,234	59.28
20	0.0009	0.0046	98,883	54.48
25	0.0009	0.0045	98,433	49.72
30	0.0011	0.0055	97,994	44.93
35	0.0017	0.0083	97,453	40.17
40	0.0027	0.0134	96,648	35.48
45	0.0042	0.0207	95,357	30.93
50	0.0067	0.0331	93,382	26.53
55	0.0103	0.0504	90,289	22.35
60	0.0170	0.0816	85,736	18.41
65	0.0284	0.1328	78,737	14.82
70	0.0431	0.1944	68,284	11.71
75	0.0685	0.2923	55,008	8.93
80	0.1173	0.4534	38,928	6.58
85	0.2012	1	21,278	4.97

### Females

0	0.0041	0.0041	100,000	80.13
1	0.0002	0.0010	99,595	79.45
5	0.0001	0.0005	99,498	75.53
10	0.0001	0.0005	99,447	70.57
15	0.0003	0.0014	99,393	65.60
20	0.0003	0.0015	99,256	60.69
25	0.0003	0.0017	99,108	55.78
30	0.0005	0.0024	98,942	50.87
35	0.0008	0.0041	98,701	45.98
40	0.0014	0.0069	98,297	41.16
45	0.0022	0.0107	97,617	36.43
50	0.0033	0.0165	96,569	31.80
55	0.0047	0.0233	94,976	27.29
60	0.0076	0.0372	92,758	22.88
65	0.0129	0.0626	89,305	18.67
70	0.0226	0.1067	83,714	14.75
75	0.0393	0.1789	74,778	11.22
80	0.0789	0.3293	61,397	8.12
85	0.1702	1	41,176	5.87

## WHO LIFE TABLE FOR 1999: GHANA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0668	0.0639	100,000	54.16
1	0.0147	0.0568	93,614	56.83
5	0.0041	0.0201	88,297	56.15
10	0.0026	0.0129	86,525	52.25
15	0.0036	0.0177	85,405	47.91
20	0.0055	0.0272	83,893	43.72
25	0.0074	0.0365	81,612	39.88
30	0.0098	0.0477	78,630	36.29
35	0.0102	0.0499	74,877	32.99
40	0.0116	0.0562	71,137	29.59
45	0.0132	0.0640	67,138	26.20
50	0.0157	0.0754	62,838	22.83
55	0.0172	0.0824	58,099	19.48
60	0.0243	0.1143	53,312	16.01
65	0.0392	0.1782	47,216	12.75
70	0.0621	0.2674	38,801	9.99
75	0.0894	0.3613	28,427	7.76
80	0.1394	0.5063	18,156	5.82
85	0.2261	1	8,963	4.42

### Females

0	0.0611	0.0586	100,000	55.52
1	0.0137	0.0529	94,144	57.95
5	0.0041	0.0204	89,160	57.10
10	0.0027	0.0134	87,345	53.24
15	0.0037	0.0182	86,172	48.93
20	0.0058	0.0284	84,606	44.79
25	0.0086	0.0419	82,206	41.02
30	0.0097	0.0474	78,758	37.71
35	0.0097	0.0472	75,027	34.46
40	0.0100	0.0487	71,483	31.04
45	0.0100	0.0490	68,002	27.50
50	0.0112	0.0543	64,670	23.79
55	0.0154	0.0742	61,158	20.01
60	0.0222	0.1050	56,620	16.42
65	0.0356	0.1632	50,676	13.05
70	0.0574	0.2498	42,406	10.12
75	0.0904	0.3646	31,813	7.69
80	0.1375	0.5013	20,215	5.75
85	0.2372	1	10,082	4.22

## WHO LIFE TABLE FOR 1999: GREECE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0066	0.0066	100,000	75.49
1	0.0003	0.0013	99,343	74.99
5	0.0002	0.0010	99,210	71.09
10	0.0002	0.0011	99,115	66.15
15	0.0007	0.0035	99,008	61.22
20	0.0011	0.0055	98,657	56.43
25	0.0012	0.0060	98,114	51.73
30	0.0012	0.0060	97,529	47.02
35	0.0016	0.0079	96,941	42.29
40	0.0021	0.0107	96,175	37.61
45	0.0034	0.0167	95,151	32.99
50	0.0054	0.0267	93,559	28.51
55	0.0080	0.0394	91,057	24.22
60	0.0125	0.0608	87,472	20.11
65	0.0210	0.1000	82,153	16.25
70	0.0345	0.1586	73,938	12.78
75	0.0554	0.2432	62,209	9.72
80	0.1030	0.4094	47,081	7.04
85	0.1930	1	27,807	5.18

### Females

0	0.0058	0.0057	100,000	80.50
1	0.0002	0.0010	99,428	79.96
5	0.0001	0.0007	99,332	76.03
10	0.0002	0.0008	99,258	71.09
15	0.0003	0.0014	99,178	66.15
20	0.0003	0.0016	99,042	61.23
25	0.0003	0.0016	98,887	56.32
30	0.0004	0.0022	98,725	51.41
35	0.0006	0.0029	98,510	46.52
40	0.0010	0.0052	98,226	41.65
45	0.0015	0.0074	97,714	36.85
50	0.0022	0.0110	96,986	32.11
55	0.0035	0.0173	95,916	27.44
60	0.0057	0.0279	94,256	22.88
65	0.0109	0.0529	91,624	18.46
70	0.0204	0.0969	86,782	14.36
75	0.0392	0.1785	78,370	10.63
80	0.0875	0.3589	64,382	7.39
85	0.1948	1	41,277	5.13

## WHO LIFE TABLE FOR 1999: GRENADA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0224	0.0219	100,000	69.09
1	0.0012	0.0049	97,808	69.63
5	0.0004	0.0022	97,328	65.97
10	0.0005	0.0025	97,114	61.11
15	0.0016	0.0077	96,871	56.26
20	0.0025	0.0127	96,122	51.67
25	0.0028	0.0139	94,905	47.30
30	0.0031	0.0156	93,582	42.94
35	0.0037	0.0183	92,121	38.58
40	0.0044	0.0218	90,435	34.25
45	0.0060	0.0295	88,463	29.96
50	0.0088	0.0431	85,850	25.80
55	0.0132	0.0637	82,147	21.85
60	0.0204	0.0971	76,915	18.16
65	0.0293	0.1363	69,445	14.85
70	0.0452	0.2030	59,978	11.80
75	0.0680	0.2904	47,800	9.16
80	0.1101	0.4318	33,917	6.89
85	0.1913	1	19,272	5.23

### Females

0	0.0183	0.0180	100,000	75.89
1	0.0011	0.0044	98,200	76.28
5	0.0003	0.0016	97,764	72.61
10	0.0003	0.0016	97,604	67.72
15	0.0006	0.0028	97,446	62.83
20	0.0007	0.0035	97,177	58.00
25	0.0008	0.0041	96,840	53.19
30	0.0011	0.0054	96,445	48.40
35	0.0015	0.0077	95,921	43.65
40	0.0022	0.0108	95,184	38.97
45	0.0033	0.0163	94,152	34.37
50	0.0052	0.0254	92,619	29.89
55	0.0078	0.0384	90,263	25.61
60	0.0124	0.0602	86,797	21.53
65	0.0181	0.0866	81,572	17.75
70	0.0284	0.1328	74,509	14.20
75	0.0460	0.2061	64,616	10.99
80	0.0820	0.3404	51,298	8.19
85	0.1632	1	33,836	6.13

## WHO LIFE TABLE FOR 1999: GUATEMALA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0372	0.0360	100,000	59.98
1	0.0057	0.0226	96,397	61.22
5	0.0014	0.0072	94,215	58.60
10	0.0010	0.0050	93,541	54.01
15	0.0017	0.0084	93,076	49.27
20	0.0028	0.0137	92,291	44.66
25	0.0034	0.0167	91,029	40.25
30	0.0042	0.0206	89,510	35.89
35	0.0057	0.0282	87,663	31.59
40	0.0079	0.0385	85,195	27.43
45	0.0112	0.0543	81,911	23.43
50	0.0168	0.0807	77,460	19.64
55	0.0252	0.1184	71,211	16.14
60	0.0389	0.1772	62,778	12.97
65	0.0587	0.2560	51,654	10.23
70	0.0902	0.3682	38,430	7.89
75	0.1336	0.5007	24,282	6.03
80	0.1942	0.6537	12,124	4.57
85	0.2880	1	4,198	3.47

### Females

0	0.0240	0.0235	100,000	64.46
1	0.0053	0.0210	97,650	65.01
5	0.0012	0.0062	95,598	62.37
10	0.0007	0.0037	95,008	57.74
15	0.0011	0.0054	94,660	52.95
20	0.0016	0.0080	94,152	48.22
25	0.0021	0.0104	93,403	43.59
30	0.0028	0.0137	92,431	39.02
35	0.0039	0.0191	91,168	34.52
40	0.0050	0.0249	89,426	30.15
45	0.0070	0.0346	87,198	25.85
50	0.0106	0.0515	84,182	21.69
55	0.0165	0.0794	79,844	17.73
60	0.0287	0.1337	73,505	14.05
65	0.0471	0.2109	63,679	10.83
70	0.0815	0.3386	50,250	8.06
75	0.1322	0.4967	33,234	5.90
80	0.2090	0.6863	16,727	4.26
85	0.3225	1	5,247	3.10

## WHO LIFE TABLE FOR 1999: GUINEA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1512	0.1368	100,000	46.19
1	0.0246	0.0929	86,323	52.46
5	0.0066	0.0324	78,306	53.67
10	0.0041	0.0202	75,771	50.38
15	0.0052	0.0256	74,241	46.37
20	0.0070	0.0343	72,339	42.52
25	0.0088	0.0430	69,860	38.94
30	0.0100	0.0488	66,860	35.57
35	0.0103	0.0501	63,595	32.27
40	0.0130	0.0628	60,409	28.84
45	0.0138	0.0667	56,615	25.61
50	0.0173	0.0829	52,840	22.26
55	0.0213	0.1013	48,461	19.04
60	0.0277	0.1297	43,551	15.91
65	0.0413	0.1867	37,902	12.91
70	0.0597	0.2583	30,826	10.31
75	0.0901	0.3636	22,862	8.06
80	0.1209	0.4558	14,550	6.32
85	0.2131	1	7,919	4.69

### Females

0	0.1295	0.1187	100,000	48.89
1	0.0222	0.0843	88,128	54.44
5	0.0063	0.0309	80,697	55.31
10	0.0041	0.0201	78,206	51.99
15	0.0049	0.0242	76,634	48.00
20	0.0065	0.0320	74,779	44.13
25	0.0088	0.0429	72,383	40.51
30	0.0098	0.0476	69,277	37.22
35	0.0102	0.0499	65,976	33.95
40	0.0108	0.0525	62,685	30.60
45	0.0111	0.0539	59,392	27.16
50	0.0131	0.0632	56,190	23.57
55	0.0170	0.0815	52,637	19.99
60	0.0248	0.1167	48,347	16.54
65	0.0364	0.1666	42,707	13.40
70	0.0562	0.2450	35,593	10.58
75	0.0819	0.3364	26,871	8.24
80	0.1226	0.4606	17,832	6.22
85	0.2187	1	9,619	4.57

## WHO LIFE TABLE FOR 1999: GUINEA-BISSAU

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1359	0.1241	100,000	44.99
1	0.0251	0.0946	87,588	50.32
5	0.0067	0.0330	79,305	51.41
10	0.0043	0.0210	76,688	48.08
15	0.0058	0.0285	75,074	44.06
20	0.0079	0.0389	72,933	40.28
25	0.0105	0.0512	70,095	36.81
30	0.0117	0.0568	66,504	33.66
35	0.0131	0.0632	62,726	30.54
40	0.0145	0.0701	58,761	27.43
45	0.0160	0.0770	54,639	24.31
50	0.0190	0.0905	50,434	21.13
55	0.0236	0.1116	45,868	17.98
60	0.0317	0.1470	40,749	14.93
65	0.0467	0.2085	34,757	12.07
70	0.0692	0.2932	27,511	9.61
75	0.0969	0.3855	19,444	7.60
80	0.1362	0.4979	11,949	5.89
85	0.2251	1	6,000	4.44

### Females

0	0.1243	0.1144	100,000	46.97
1	0.0242	0.0914	88,561	52.00
5	0.0065	0.0318	80,470	53.07
10	0.0044	0.0216	77,909	49.73
15	0.0054	0.0266	76,225	45.78
20	0.0076	0.0372	74,200	41.96
25	0.0099	0.0484	71,437	38.48
30	0.0112	0.0545	67,982	35.31
35	0.0122	0.0592	64,276	32.21
40	0.0128	0.0622	60,471	29.08
45	0.0127	0.0614	56,711	25.84
50	0.0147	0.0710	53,228	22.36
55	0.0192	0.0917	49,446	18.88
60	0.0287	0.1339	44,914	15.54
65	0.0416	0.1882	38,901	12.55
70	0.0635	0.2724	31,581	9.89
75	0.0923	0.3709	22,979	7.70
80	0.1381	0.5031	14,456	5.85
85	0.2250	1	7,183	4.45

## WHO LIFE TABLE FOR 1999: GUYANA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0684	0.0645	100,000	65.52
1	0.0026	0.0102	93,552	69.02
5	0.0009	0.0043	92,600	65.72
10	0.0009	0.0044	92,198	60.99
15	0.0028	0.0139	91,791	56.25
20	0.0040	0.0197	90,513	52.01
25	0.0045	0.0221	88,733	48.01
30	0.0043	0.0212	86,769	44.04
35	0.0047	0.0234	84,932	39.93
40	0.0055	0.0273	82,945	35.83
45	0.0069	0.0339	80,677	31.77
50	0.0099	0.0483	77,944	27.79
55	0.0128	0.0619	74,181	24.08
60	0.0177	0.0845	69,588	20.50
65	0.0221	0.1045	63,706	17.16
70	0.0339	0.1558	57,051	13.88
75	0.0446	0.1994	48,165	11.00
80	0.0716	0.2998	38,561	8.15
85	0.1768	1	26,998	5.66

### Females

0	0.0516	0.0493	100,000	72.18
1	0.0022	0.0088	95,072	74.92
5	0.0008	0.0037	94,231	71.57
10	0.0006	0.0030	93,878	66.83
15	0.0011	0.0054	93,598	62.02
20	0.0012	0.0060	93,096	57.35
25	0.0015	0.0074	92,536	52.68
30	0.0017	0.0084	91,850	48.05
35	0.0027	0.0133	91,079	43.44
40	0.0037	0.0182	89,868	38.99
45	0.0052	0.0255	88,229	34.67
50	0.0068	0.0332	85,981	30.51
55	0.0097	0.0474	83,124	26.47
60	0.0132	0.0638	79,185	22.66
65	0.0188	0.0899	74,136	19.04
70	0.0259	0.1213	67,471	15.68
75	0.0316	0.1457	59,285	12.51
80	0.0567	0.2459	50,644	9.24
85	0.1537	1	38,189	6.51



## WHO LIFE TABLE FOR 1999: HAITI

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0829	0.0772	100,000	50.56
1	0.0118	0.0460	92,283	53.78
5	0.0029	0.0143	88,042	52.29
10	0.0020	0.0099	86,781	48.02
15	0.0033	0.0166	85,924	43.47
20	0.0054	0.0265	84,499	39.16
25	0.0064	0.0317	82,263	35.16
30	0.0078	0.0383	79,659	31.23
35	0.0104	0.0508	76,607	27.37
40	0.0139	0.0671	72,715	23.70
45	0.0190	0.0905	67,834	20.23
50	0.0271	0.1267	61,696	16.99
55	0.0379	0.1730	53,879	14.10
60	0.0539	0.2375	44,557	11.52
65	0.0743	0.3132	33,973	9.33
70	0.1040	0.4127	23,333	7.45
75	0.1421	0.5243	13,704	5.92
80	0.1917	0.6479	6,518	4.70
85	0.2677	1	2,295	3.73

### Females

0	0.0688	0.0648	100,000	54.93
1	0.0126	0.0490	93,520	57.73
5	0.0028	0.0138	88,935	56.63
10	0.0016	0.0081	87,708	52.38
15	0.0023	0.0116	87,000	47.79
20	0.0034	0.0169	85,987	43.32
25	0.0044	0.0216	84,531	39.03
30	0.0056	0.0275	82,705	34.83
35	0.0076	0.0371	80,427	30.75
40	0.0095	0.0464	77,441	26.84
45	0.0126	0.0612	73,850	23.02
50	0.0179	0.0856	69,331	19.36
55	0.0259	0.1218	63,397	15.94
60	0.0408	0.1852	55,676	12.80
65	0.0599	0.2604	45,364	10.14
70	0.0915	0.3725	33,549	7.84
75	0.1348	0.5042	21,053	6.00
80	0.1948	0.6550	10,438	4.56
85	0.2871	1	3,601	3.48

## WHO LIFE TABLE FOR 1999: HONDURAS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0360	0.0349	100,000	68.15
1	0.0016	0.0066	96,514	69.61
5	0.0006	0.0029	95,880	66.06
10	0.0006	0.0032	95,605	61.24
15	0.0020	0.0098	95,301	56.43
20	0.0032	0.0158	94,367	51.96
25	0.0032	0.0160	92,879	47.75
30	0.0036	0.0179	91,391	43.49
35	0.0042	0.0209	89,751	39.24
40	0.0048	0.0239	87,879	35.02
45	0.0064	0.0316	85,777	30.82
50	0.0090	0.0442	83,065	26.74
55	0.0130	0.0631	79,391	22.87
60	0.0184	0.0879	74,380	19.24
65	0.0254	0.1195	67,845	15.85
70	0.0388	0.1761	59,740	12.67
75	0.0560	0.2439	49,220	9.86
80	0.0888	0.3581	37,215	7.29
85	0.1973	1	23,888	5.07

### Females

0	0.0309	0.0301	100,000	71.02
1	0.0018	0.0074	96,995	72.22
5	0.0005	0.0027	96,281	68.74
10	0.0005	0.0027	96,019	63.92
15	0.0009	0.0046	95,763	59.08
20	0.0011	0.0057	95,326	54.34
25	0.0013	0.0067	94,782	49.64
30	0.0018	0.0089	94,147	44.96
35	0.0025	0.0125	93,311	40.34
40	0.0035	0.0175	92,144	35.82
45	0.0053	0.0260	90,532	31.41
50	0.0082	0.0400	88,177	27.18
55	0.0122	0.0590	84,651	23.21
60	0.0189	0.0904	79,656	19.51
65	0.0266	0.1246	72,458	16.20
70	0.0398	0.1805	63,433	13.16
75	0.0580	0.2512	51,981	10.53
80	0.0838	0.3417	38,922	8.27
85	0.1569	1	25,622	6.37

## WHO LIFE TABLE FOR 1999: HUNGARY

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0099	0.0099	100,000	66.33
1	0.0005	0.0020	99,014	65.99
5	0.0002	0.0010	98,814	62.12
10	0.0003	0.0013	98,714	57.18
15	0.0006	0.0030	98,583	52.26
20	0.0009	0.0047	98,285	47.41
25	0.0012	0.0060	97,820	42.62
30	0.0022	0.0108	97,229	37.86
35	0.0044	0.0219	96,182	33.25
40	0.0080	0.0392	94,074	28.94
45	0.0116	0.0562	90,391	25.01
50	0.0173	0.0829	85,308	21.36
55	0.0227	0.1073	78,232	18.06
60	0.0340	0.1565	69,841	14.93
65	0.0462	0.2071	58,912	12.24
70	0.0671	0.2872	46,714	9.78
75	0.0922	0.3746	33,296	7.71
80	0.1440	0.5294	20,823	5.84
85	0.2179	1	9,800	4.59

### Females

0	0.0089	0.0088	100,000	75.09
1	0.0004	0.0016	99,119	74.75
5	0.0002	0.0008	98,958	70.87
10	0.0002	0.0008	98,874	65.93
15	0.0003	0.0014	98,794	60.98
20	0.0003	0.0017	98,656	56.06
25	0.0005	0.0025	98,490	51.16
30	0.0009	0.0043	98,242	46.28
35	0.0018	0.0088	97,815	41.47
40	0.0031	0.0153	96,954	36.82
45	0.0045	0.0222	95,466	32.35
50	0.0065	0.0321	93,346	28.03
55	0.0092	0.0451	90,346	23.88
60	0.0134	0.0646	86,269	19.89
65	0.0209	0.0995	80,692	16.09
70	0.0344	0.1584	72,665	12.59
75	0.0585	0.2553	61,158	9.49
80	0.1048	0.4154	45,546	6.88
85	0.2002	1	26,628	4.99

## WHO LIFE TABLE FOR 1999: ICELAND

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0032	0.0032	100,000	76.07
1	0.0004	0.0017	99,679	75.32
5	0.0002	0.0008	99,512	71.44
10	0.0001	0.0005	99,432	66.50
15	0.0003	0.0017	99,378	61.53
20	0.0007	0.0036	99,207	56.63
25	0.0007	0.0036	98,847	51.83
30	0.0006	0.0029	98,488	47.01
35	0.0006	0.0030	98,202	42.14
40	0.0019	0.0093	97,904	37.26
45	0.0016	0.0080	96,995	32.59
50	0.0037	0.0185	96,222	27.83
55	0.0067	0.0330	94,445	23.31
60	0.0112	0.0546	91,333	19.01
65	0.0213	0.1012	86,345	14.97
70	0.0428	0.1934	77,604	11.37
75	0.0699	0.2976	62,599	8.50
80	0.1291	0.4880	43,969	6.04
85	0.2265	1	22,512	4.42

### Females

0	0.0021	0.0021	100,000	80.38
1	0.0002	0.0009	99,793	79.55
5	0.0001	0.0005	99,700	75.62
10	0.0004	0.0022	99,648	70.66
15	0.0001	0.0006	99,428	65.81
20	0.0002	0.0012	99,371	60.85
25	0.0002	0.0012	99,253	55.92
30	0.0004	0.0018	99,132	50.98
35	0.0006	0.0029	98,954	46.07
40	0.0007	0.0033	98,668	41.20
45	0.0018	0.0091	98,337	36.33
50	0.0027	0.0132	97,441	31.64
55	0.0043	0.0213	96,154	27.03
60	0.0057	0.0280	94,104	22.56
65	0.0091	0.0443	91,472	18.14
70	0.0220	0.1041	87,423	13.86
75	0.0471	0.2107	78,326	10.18
80	0.0862	0.3546	61,826	7.23
85	0.2069	1	39,901	4.83

## WHO LIFE TABLE FOR 1999: INDIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0710	0.0667	100,000	59.56
1	0.0081	0.0320	93,326	62.82
5	0.0022	0.0108	90,344	60.84
10	0.0013	0.0066	89,369	56.47
15	0.0016	0.0081	88,781	51.83
20	0.0023	0.0114	88,066	47.23
25	0.0028	0.0140	87,063	42.75
30	0.0034	0.0169	85,847	38.32
35	0.0042	0.0207	84,398	33.93
40	0.0063	0.0309	82,654	29.59
45	0.0091	0.0447	80,101	25.46
50	0.0143	0.0688	76,520	21.53
55	0.0203	0.0965	71,254	17.94
60	0.0333	0.1538	64,381	14.59
65	0.0482	0.2151	54,482	11.78
70	0.0730	0.3087	42,762	9.33
75	0.1037	0.4119	29,562	7.37
80	0.1435	0.5280	17,386	5.79
85	0.2238	1	8,207	4.47

### Females

0	0.0702	0.0661	100,000	61.17
1	0.0103	0.0403	93,395	64.49
5	0.0028	0.0139	89,626	63.13
10	0.0014	0.0072	88,384	58.98
15	0.0022	0.0108	87,751	54.39
20	0.0029	0.0146	86,802	49.96
25	0.0028	0.0140	85,532	45.66
30	0.0030	0.0150	84,332	41.28
35	0.0032	0.0159	83,069	36.87
40	0.0043	0.0211	81,752	32.42
45	0.0059	0.0292	80,030	28.06
50	0.0101	0.0494	77,695	23.83
55	0.0145	0.0700	73,860	19.94
60	0.0250	0.1177	68,687	16.25
65	0.0364	0.1670	60,604	13.09
70	0.0608	0.2640	50,486	10.21
75	0.0891	0.3642	37,158	7.97
80	0.1299	0.4902	23,624	6.11
85	0.2186	1	12,044	4.57

## WHO LIFE TABLE FOR 1999: INDONESIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0563	0.0535	100,000	66.37
1	0.0023	0.0092	94,646	69.12
5	0.0015	0.0075	93,777	65.74
10	0.0012	0.0059	93,071	61.22
15	0.0030	0.0147	92,522	56.57
20	0.0038	0.0187	91,160	52.38
25	0.0036	0.0179	89,453	48.33
30	0.0041	0.0202	87,854	44.17
35	0.0047	0.0230	86,077	40.03
40	0.0056	0.0277	84,098	35.91
45	0.0077	0.0376	81,769	31.86
50	0.0096	0.0469	78,698	28.01
55	0.0128	0.0620	75,007	24.26
60	0.0159	0.0763	70,360	20.70
65	0.0226	0.1070	64,993	17.20
70	0.0335	0.1543	58,040	13.97
75	0.0485	0.2147	49,086	11.08
80	0.0681	0.2877	38,545	8.46
85	0.1679	1	27,454	5.96

### Females

0	0.0457	0.0439	100,000	69.19
1	0.0025	0.0099	95,610	71.37
5	0.0014	0.0071	94,663	68.06
10	0.0011	0.0057	93,991	63.53
15	0.0018	0.0088	93,454	58.88
20	0.0021	0.0105	92,632	54.38
25	0.0021	0.0104	91,660	49.93
30	0.0025	0.0123	90,704	45.43
35	0.0033	0.0166	89,587	40.97
40	0.0047	0.0233	88,100	36.62
45	0.0065	0.0320	86,049	32.43
50	0.0088	0.0431	83,293	28.42
55	0.0119	0.0578	79,706	24.59
60	0.0146	0.0706	75,101	20.94
65	0.0213	0.1010	69,801	17.34
70	0.0329	0.1513	62,749	14.02
75	0.0477	0.2119	53,253	11.09
80	0.0676	0.2859	41,970	8.44
85	0.1697	1	29,973	5.89

## WHO LIFE TABLE FOR 1999: IRAN, ISLAMIC REPUBLIC OF

### Males

$x$	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0382	0.0369	100,000	66.55
1	0.0029	0.0116	96,309	68.10
5	0.0008	0.0040	95,187	64.88
10	0.0006	0.0031	94,809	60.13
15	0.0008	0.0039	94,511	55.31
20	0.0008	0.0040	94,142	50.52
25	0.0011	0.0056	93,761	45.71
30	0.0015	0.0076	93,235	40.96
35	0.0022	0.0110	92,527	36.25
40	0.0030	0.0151	91,511	31.63
45	0.0044	0.0220	90,127	27.07
50	0.0078	0.0381	88,145	22.63
55	0.0133	0.0642	84,787	18.42
60	0.0254	0.1196	79,345	14.51
65	0.0390	0.1775	69,855	11.15
70	0.0773	0.3220	57,457	8.02
75	0.1331	0.4920	38,957	5.69
80	0.2269	0.7035	19,791	3.93
85	0.3563	1	5,869	2.81

### Females

0	0.0273	0.0266	100,000	68.12
1	0.0039	0.0154	97,337	68.98
5	0.0009	0.0045	95,835	66.04
10	0.0006	0.0031	95,401	61.32
15	0.0008	0.0039	95,107	56.51
20	0.0009	0.0043	94,735	51.72
25	0.0011	0.0055	94,324	46.93
30	0.0012	0.0058	93,807	42.18
35	0.0019	0.0096	93,261	37.41
40	0.0018	0.0088	92,368	32.75
45	0.0035	0.0175	91,559	28.01
50	0.0058	0.0285	89,956	23.47
55	0.0108	0.0526	87,389	19.09
60	0.0223	0.1057	82,797	15.01
65	0.0350	0.1605	74,044	11.48
70	0.0746	0.3123	62,158	8.21
75	0.1272	0.4756	42,744	5.85
80	0.2202	0.6904	22,414	4.03
85	0.3481	1	6,939	2.87

## WHO LIFE TABLE FOR 1999: IRAQ

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0518	0.0495	100,000	61.35
1	0.0046	0.0180	95,051	63.54
5	0.0012	0.0058	93,336	60.68
10	0.0010	0.0047	92,796	56.02
15	0.0011	0.0056	92,356	51.28
20	0.0013	0.0064	91,836	46.55
25	0.0017	0.0085	91,252	41.83
30	0.0023	0.0113	90,480	37.17
35	0.0034	0.0169	89,461	32.56
40	0.0047	0.0230	87,953	28.08
45	0.0072	0.0356	85,929	23.68
50	0.0131	0.0635	82,873	19.46
55	0.0208	0.0988	77,608	15.61
60	0.0388	0.1767	69,940	12.05
65	0.0615	0.2665	57,579	9.10
70	0.1088	0.4278	42,235	6.50
75	0.1929	0.6508	24,167	4.49
80	0.3006	0.8582	8,440	3.21
85	0.4040	1	1,197	2.48

### Females

0	0.0363	0.0351	100,000	63.03
1	0.0050	0.0196	96,485	64.33
5	0.0010	0.0050	94,596	61.58
10	0.0008	0.0041	94,122	56.88
15	0.0010	0.0051	93,739	52.10
20	0.0012	0.0058	93,265	47.35
25	0.0016	0.0079	92,723	42.61
30	0.0018	0.0089	91,991	37.93
35	0.0028	0.0141	91,168	33.25
40	0.0035	0.0172	89,881	28.69
45	0.0060	0.0294	88,334	24.15
50	0.0113	0.0551	85,737	19.81
55	0.0174	0.0835	81,011	15.82
60	0.0369	0.1691	74,247	12.03
65	0.0628	0.2715	61,694	8.97
70	0.1162	0.4502	44,943	6.38
75	0.1875	0.6382	24,710	4.56
80	0.3041	0.8638	8,940	3.18
85	0.3992	1	1,218	2.51



## WHO LIFE TABLE FOR 1999: IRELAND

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0057	0.0056	100,000	73.35
1	0.0003	0.0010	99,438	72.76
5	0.0002	0.0008	99,337	68.83
10	0.0002	0.0012	99,263	63.88
15	0.0006	0.0031	99,141	58.96
20	0.0013	0.0062	98,836	54.13
25	0.0012	0.0062	98,218	49.46
30	0.0012	0.0058	97,613	44.75
35	0.0013	0.0063	97,046	40.00
40	0.0019	0.0093	96,430	35.24
45	0.0030	0.0148	95,533	30.54
50	0.0052	0.0259	94,119	25.96
55	0.0091	0.0446	91,684	21.59
60	0.0168	0.0807	87,592	17.48
65	0.0302	0.1406	80,527	13.79
70	0.0500	0.2222	69,205	10.64
75	0.0825	0.3421	53,828	7.97
80	0.1371	0.5106	35,414	5.81
85	0.2346	1	17,331	4.26

### Females

0	0.0048	0.0047	100,000	78.30
1	0.0003	0.0012	99,527	77.68
5	0.0001	0.0004	99,412	73.76
10	0.0001	0.0005	99,376	68.79
15	0.0003	0.0014	99,332	63.82
20	0.0002	0.0012	99,194	58.90
25	0.0004	0.0020	99,072	53.97
30	0.0005	0.0024	98,876	49.08
35	0.0007	0.0034	98,640	44.19
40	0.0011	0.0055	98,306	39.33
45	0.0019	0.0095	97,762	34.53
50	0.0034	0.0169	96,835	29.84
55	0.0053	0.0263	95,196	25.31
60	0.0095	0.0463	92,690	20.93
65	0.0169	0.0811	88,394	16.82
70	0.0310	0.1437	81,224	13.09
75	0.0547	0.2404	69,556	9.86
80	0.0963	0.3879	52,832	7.19
85	0.1934	1	32,338	5.17

## WHO LIFE TABLE FOR 1999: ISRAEL

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0062	0.0062	100,000	76.22
1	0.0004	0.0015	99,383	75.69
5	0.0002	0.0009	99,229	71.81
10	0.0002	0.0011	99,142	66.87
15	0.0005	0.0025	99,036	61.94
20	0.0009	0.0046	98,787	57.09
25	0.0008	0.0040	98,333	52.34
30	0.0009	0.0047	97,944	47.54
35	0.0013	0.0063	97,481	42.75
40	0.0017	0.0082	96,863	38.01
45	0.0028	0.0137	96,064	33.30
50	0.0043	0.0211	94,749	28.73
55	0.0081	0.0399	92,754	24.30
60	0.0137	0.0663	89,053	20.20
65	0.0220	0.1042	83,145	16.46
70	0.0338	0.1560	74,485	13.08
75	0.0577	0.2520	62,865	10.04
80	0.0928	0.3766	47,023	7.58
85	0.1771	1	29,315	5.65

### Females

0	0.0060	0.0060	100,000	79.94
1	0.0004	0.0014	99,403	79.42
5	0.0001	0.0004	99,261	75.54
10	0.0001	0.0005	99,217	70.57
15	0.0002	0.0012	99,164	65.60
20	0.0003	0.0014	99,050	60.68
25	0.0003	0.0017	98,913	55.76
30	0.0005	0.0024	98,750	50.85
35	0.0006	0.0032	98,510	45.96
40	0.0011	0.0053	98,192	41.10
45	0.0017	0.0085	97,669	36.31
50	0.0027	0.0134	96,841	31.60
55	0.0048	0.0239	95,547	26.99
60	0.0084	0.0410	93,265	22.59
65	0.0138	0.0666	89,446	18.45
70	0.0235	0.1111	83,493	14.59
75	0.0431	0.1944	74,219	11.10
80	0.0770	0.3227	59,794	8.17
85	0.1702	1	40,496	5.88

## WHO LIFE TABLE FOR 1999: ITALY

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0055	0.0054	100,000	75.36
1	0.0002	0.0010	99,456	74.77
5	0.0002	0.0008	99,359	70.84
10	0.0002	0.0011	99,280	65.90
15	0.0006	0.0032	99,175	60.96
20	0.0009	0.0044	98,861	56.15
25	0.0010	0.0049	98,422	51.39
30	0.0015	0.0074	97,944	46.63
35	0.0016	0.0080	97,222	41.96
40	0.0018	0.0092	96,448	37.27
45	0.0028	0.0139	95,565	32.59
50	0.0047	0.0233	94,233	28.02
55	0.0081	0.0396	92,036	23.63
60	0.0140	0.0678	88,393	19.50
65	0.0238	0.1125	82,399	15.74
70	0.0384	0.1754	73,127	12.41
75	0.0628	0.2714	60,303	9.52
80	0.1023	0.4072	43,936	7.14
85	0.1879	1	26,043	5.32

### Females

0	0.0045	0.0044	100,000	82.07
1	0.0002	0.0010	99,556	81.43
5	0.0001	0.0007	99,459	77.51
10	0.0001	0.0006	99,392	72.56
15	0.0002	0.0011	99,335	67.60
20	0.0003	0.0013	99,231	62.67
25	0.0004	0.0018	99,103	57.75
30	0.0006	0.0028	98,928	52.85
35	0.0007	0.0033	98,653	47.99
40	0.0009	0.0047	98,327	43.14
45	0.0015	0.0076	97,866	38.33
50	0.0024	0.0118	97,125	33.60
55	0.0036	0.0177	95,978	28.97
60	0.0058	0.0285	94,282	24.45
65	0.0100	0.0487	91,599	20.09
70	0.0175	0.0840	87,137	15.99
75	0.0332	0.1532	79,816	12.23
80	0.0633	0.2734	67,592	8.99
85	0.1554	1	49,112	6.43

## WHO LIFE TABLE FOR 1999: JAMAICA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0248	0.0242	100,000	75.21
1	0.0011	0.0044	97,577	76.07
5	0.0004	0.0019	97,146	72.40
10	0.0004	0.0022	96,957	67.54
15	0.0013	0.0064	96,742	62.68
20	0.0018	0.0091	96,120	58.07
25	0.0021	0.0106	95,245	53.58
30	0.0022	0.0108	94,237	49.13
35	0.0025	0.0125	93,220	44.64
40	0.0028	0.0141	92,056	40.17
45	0.0039	0.0195	90,758	35.71
50	0.0052	0.0259	88,992	31.37
55	0.0070	0.0345	86,688	27.14
60	0.0113	0.0551	83,701	23.02
65	0.0142	0.0683	79,091	19.21
70	0.0226	0.1067	73,686	15.44
75	0.0346	0.1586	65,821	12.00
80	0.0606	0.2603	55,381	8.82
85	0.1636	1	40,963	6.11

### Females

0	0.0206	0.0203	100,000	77.39
1	0.0011	0.0045	97,973	77.99
5	0.0003	0.0017	97,537	74.34
10	0.0003	0.0016	97,376	69.45
15	0.0006	0.0028	97,218	64.56
20	0.0008	0.0039	96,947	59.74
25	0.0008	0.0039	96,568	54.96
30	0.0009	0.0047	96,194	50.17
35	0.0014	0.0071	95,743	45.39
40	0.0020	0.0099	95,067	40.69
45	0.0029	0.0143	94,128	36.08
50	0.0046	0.0229	92,783	31.56
55	0.0067	0.0331	90,654	27.24
60	0.0095	0.0464	87,652	23.09
65	0.0141	0.0683	83,586	19.09
70	0.0223	0.1052	77,881	15.31
75	0.0357	0.1633	69,687	11.83
80	0.0570	0.2468	58,309	8.68
85	0.1732	1	43,917	5.77

## WHO LIFE TABLE FOR 1999: JAPAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0039	0.0039	100,000	77.56
1	0.0004	0.0015	99,613	76.86
5	0.0002	0.0008	99,466	72.97
10	0.0001	0.0007	99,388	68.02
15	0.0005	0.0025	99,316	63.07
20	0.0006	0.0031	99,069	58.22
25	0.0007	0.0033	98,761	53.39
30	0.0008	0.0039	98,435	48.56
35	0.0011	0.0054	98,052	43.74
40	0.0017	0.0084	97,527	38.97
45	0.0029	0.0145	96,709	34.27
50	0.0047	0.0232	95,311	29.74
55	0.0071	0.0350	93,102	25.39
60	0.0119	0.0576	89,841	21.22
65	0.0189	0.0904	84,661	17.36
70	0.0288	0.1342	77,009	13.84
75	0.0497	0.2212	66,674	10.60
80	0.0861	0.3542	51,928	7.90
85	0.1708	1	33,536	5.86

### Females

0	0.0033	0.0033	100,000	84.29
1	0.0003	0.0013	99,670	83.57
5	0.0001	0.0006	99,537	79.68
10	0.0001	0.0004	99,479	74.72
15	0.0002	0.0010	99,435	69.75
20	0.0003	0.0013	99,340	64.82
25	0.0003	0.0015	99,211	59.90
30	0.0004	0.0021	99,059	54.99
35	0.0006	0.0030	98,850	50.10
40	0.0010	0.0048	98,556	45.24
45	0.0016	0.0078	98,083	40.45
50	0.0023	0.0112	97,321	35.74
55	0.0032	0.0158	96,229	31.12
60	0.0050	0.0247	94,705	26.58
65	0.0078	0.0384	92,366	22.19
70	0.0132	0.0638	88,818	17.98
75	0.0247	0.1162	83,151	14.03
80	0.0480	0.2143	73,491	10.55
85	0.1292	1	57,744	7.74

## WHO LIFE TABLE FOR 1999: JORDAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0202	0.0198	100,000	66.05
1	0.0023	0.0090	98,019	66.38
5	0.0006	0.0030	97,141	62.97
10	0.0005	0.0025	96,851	58.15
15	0.0006	0.0030	96,609	53.29
20	0.0007	0.0034	96,319	48.44
25	0.0009	0.0047	95,987	43.60
30	0.0013	0.0064	95,538	38.79
35	0.0020	0.0099	94,928	34.03
40	0.0028	0.0140	93,991	29.34
45	0.0046	0.0229	92,671	24.72
50	0.0090	0.0441	90,552	20.24
55	0.0157	0.0755	86,561	16.06
60	0.0327	0.1510	80,029	12.17
65	0.0590	0.2570	67,941	8.89
70	0.1171	0.4529	50,480	6.10
75	0.2158	0.7008	27,619	4.08
80	0.3582	0.9448	8,264	2.78
85	0.3911	1	456	2.56

### Females

0	0.0158	0.0156	100,000	67.74
1	0.0025	0.0099	98,445	67.81
5	0.0005	0.0026	97,475	64.47
10	0.0004	0.0021	97,223	59.63
15	0.0005	0.0027	97,016	54.75
20	0.0006	0.0031	96,758	49.89
25	0.0009	0.0043	96,458	45.04
30	0.0010	0.0049	96,047	40.22
35	0.0016	0.0079	95,577	35.40
40	0.0020	0.0098	94,824	30.67
45	0.0035	0.0173	93,892	25.95
50	0.0070	0.0342	92,265	21.36
55	0.0114	0.0554	89,111	17.03
60	0.0262	0.1228	84,178	12.88
65	0.0506	0.2246	73,844	9.33
70	0.1075	0.4238	57,257	6.31
75	0.2113	0.6913	32,994	4.11
80	0.3672	0.9573	10,185	2.71
85	0.4018	1	435	2.49

## WHO LIFE TABLE FOR 1999: KAZAHKSTAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0381	0.0368	100,000	58.76
1	0.0028	0.0112	96,319	60.00
5	0.0006	0.0032	95,238	56.66
10	0.0006	0.0030	94,938	51.83
15	0.0017	0.0087	94,652	46.98
20	0.0036	0.0178	93,832	42.37
25	0.0045	0.0222	92,158	38.10
30	0.0060	0.0297	90,113	33.90
35	0.0082	0.0401	87,437	29.87
40	0.0113	0.0549	83,933	26.01
45	0.0157	0.0756	79,324	22.37
50	0.0216	0.1026	73,324	19.00
55	0.0317	0.1467	65,805	15.89
60	0.0443	0.1994	56,149	13.19
65	0.0619	0.2679	44,953	10.85
70	0.0806	0.3354	32,912	8.90
75	0.1070	0.4221	21,873	7.14
80	0.1587	0.5681	12,640	5.52
85	0.2223	1	5,459	4.50

### Females

0	0.0276	0.0270	100,000	69.90
1	0.0023	0.0090	97,304	70.83
5	0.0004	0.0022	96,427	67.46
10	0.0004	0.0019	96,214	62.61
15	0.0009	0.0043	96,034	57.72
20	0.0012	0.0059	95,626	52.96
25	0.0016	0.0080	95,062	48.25
30	0.0020	0.0099	94,300	43.62
35	0.0026	0.0130	93,366	39.04
40	0.0035	0.0174	92,148	34.52
45	0.0055	0.0273	90,549	30.08
50	0.0088	0.0430	88,079	25.86
55	0.0128	0.0620	84,295	21.91
60	0.0190	0.0907	79,065	18.19
65	0.0300	0.1397	71,895	14.75
70	0.0443	0.1994	61,850	11.75
75	0.0718	0.3043	49,519	9.05
80	0.1091	0.4285	34,451	6.91
85	0.1917	1	19,690	5.22

## WHO LIFE TABLE FOR 1999: KENYA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0522	0.0504	100,000	47.29
1	0.0135	0.0524	94,963	48.79
5	0.0035	0.0171	89,989	47.39
10	0.0023	0.0114	88,449	43.18
15	0.0038	0.0187	87,441	38.65
20	0.0077	0.0378	85,808	34.33
25	0.0158	0.0759	82,562	30.58
30	0.0240	0.1134	76,292	27.89
35	0.0268	0.1256	67,642	26.14
40	0.0268	0.1257	59,148	24.53
45	0.0261	0.1225	51,714	22.70
50	0.0242	0.1143	45,380	20.52
55	0.0233	0.1099	40,193	17.85
60	0.0295	0.1375	35,774	14.74
65	0.0457	0.2045	30,854	11.70
70	0.0707	0.2987	24,544	9.07
75	0.1090	0.4227	17,213	6.92
80	0.1605	0.5599	9,937	5.26
85	0.2486	1	4,373	4.02

### Females

0	0.0523	0.0505	100,000	48.08
1	0.0132	0.0510	94,954	49.62
5	0.0033	0.0163	90,112	48.20
10	0.0022	0.0109	88,641	43.96
15	0.0052	0.0257	87,679	39.41
20	0.0129	0.0624	85,429	35.38
25	0.0225	0.1064	80,101	32.57
30	0.0271	0.1269	71,578	31.15
35	0.0232	0.1096	62,497	30.31
40	0.0202	0.0964	55,648	28.74
45	0.0158	0.0758	50,286	26.53
50	0.0147	0.0711	46,474	23.51
55	0.0160	0.0771	43,169	20.11
60	0.0211	0.1000	39,841	16.58
65	0.0332	0.1530	35,857	13.15
70	0.0556	0.2427	30,369	10.08
75	0.0898	0.3628	22,998	7.55
80	0.1456	0.5225	14,654	5.50
85	0.2493	1	6,997	4.01



## WHO LIFE TABLE FOR 1999: KIRIBATI

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0475	0.0456	100,000	61.36
1	0.0043	0.0170	95,440	63.28
5	0.0015	0.0075	93,817	60.35
10	0.0012	0.0059	93,115	55.79
15	0.0019	0.0096	92,562	51.10
20	0.0025	0.0124	91,673	46.58
25	0.0024	0.0120	90,537	42.13
30	0.0033	0.0163	89,448	37.61
35	0.0040	0.0199	87,986	33.19
40	0.0056	0.0276	86,233	28.82
45	0.0087	0.0426	83,857	24.56
50	0.0140	0.0675	80,282	20.55
55	0.0221	0.1045	74,866	16.85
60	0.0358	0.1642	67,042	13.53
65	0.0546	0.2401	56,035	10.69
70	0.0835	0.3455	42,582	8.28
75	0.1243	0.4741	27,870	6.34
80	0.1823	0.6262	14,656	4.79
85	0.2752	1	5,478	3.63

### Females

0	0.0435	0.0418	100,000	65.45
1	0.0043	0.0169	95,816	67.31
5	0.0010	0.0050	94,195	64.44
10	0.0008	0.0041	93,722	59.75
15	0.0015	0.0074	93,337	54.99
20	0.0020	0.0100	92,647	50.38
25	0.0019	0.0092	91,724	45.86
30	0.0022	0.0112	90,876	41.26
35	0.0026	0.0128	89,862	36.70
40	0.0037	0.0185	88,708	32.15
45	0.0058	0.0288	87,068	27.71
50	0.0094	0.0457	84,561	23.45
55	0.0146	0.0702	80,693	19.46
60	0.0244	0.1148	75,028	15.74
65	0.0388	0.1769	66,416	12.45
70	0.0646	0.2783	54,664	9.59
75	0.0990	0.3968	39,453	7.33
80	0.1489	0.5424	23,798	5.51
85	0.2457	1	10,889	4.07

## WHO LIFE TABLE FOR 1999: KUWAIT

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0158	0.0156	100,000	71.71
1	0.0007	0.0030	98,440	71.84
5	0.0005	0.0024	98,150	68.05
10	0.0004	0.0020	97,919	63.20
15	0.0007	0.0036	97,721	58.33
20	0.0007	0.0036	97,369	53.53
25	0.0007	0.0034	97,016	48.71
30	0.0008	0.0041	96,687	43.87
35	0.0011	0.0055	96,286	39.04
40	0.0016	0.0080	95,761	34.24
45	0.0032	0.0156	94,995	29.50
50	0.0063	0.0312	93,509	24.93
55	0.0101	0.0494	90,593	20.65
60	0.0200	0.0950	86,117	16.59
65	0.0306	0.1420	77,934	13.07
70	0.0555	0.2424	66,864	9.83
75	0.0948	0.3787	50,654	7.21
80	0.1569	0.5510	31,472	5.17
85	0.2707	1	14,130	3.69

### Females

0	0.0146	0.0144	100,000	75.14
1	0.0006	0.0026	98,555	75.24
5	0.0003	0.0015	98,303	71.43
10	0.0002	0.0012	98,155	66.54
15	0.0003	0.0013	98,037	61.61
20	0.0003	0.0013	97,912	56.69
25	0.0004	0.0022	97,786	51.76
30	0.0004	0.0022	97,574	46.87
35	0.0008	0.0041	97,363	41.96
40	0.0012	0.0061	96,965	37.12
45	0.0023	0.0112	96,376	32.34
50	0.0046	0.0226	95,297	27.67
55	0.0071	0.0347	93,141	23.26
60	0.0155	0.0748	89,913	19.00
65	0.0230	0.1086	83,186	15.34
70	0.0450	0.2013	74,156	11.90
75	0.0604	0.2603	59,232	9.30
80	0.1015	0.3983	43,813	6.75
85	0.2133	1	26,360	4.69

## WHO LIFE TABLE FOR 1999: KYRGYZSTAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0511	0.0488	100,000	61.57
1	0.0065	0.0257	95,118	63.73
5	0.0006	0.0031	92,672	61.37
10	0.0006	0.0032	92,382	56.55
15	0.0011	0.0057	92,090	51.73
20	0.0020	0.0099	91,564	47.01
25	0.0030	0.0148	90,657	42.45
30	0.0036	0.0180	89,319	38.05
35	0.0054	0.0268	87,708	33.71
40	0.0070	0.0344	85,362	29.56
45	0.0108	0.0524	82,422	25.53
50	0.0159	0.0765	78,102	21.80
55	0.0205	0.0976	72,127	18.40
60	0.0327	0.1511	65,084	15.12
65	0.0459	0.2059	55,247	12.37
70	0.0630	0.2720	43,873	9.93
75	0.0898	0.3667	31,942	7.70
80	0.1480	0.5402	20,228	5.72
85	0.2224	1	9,300	4.50

### Females

0	0.0443	0.0426	100,000	68.97
1	0.0067	0.0264	95,742	71.04
5	0.0004	0.0022	93,215	68.92
10	0.0004	0.0019	93,009	64.07
15	0.0005	0.0027	92,834	59.18
20	0.0008	0.0042	92,586	54.34
25	0.0013	0.0065	92,201	49.55
30	0.0016	0.0082	91,602	44.86
35	0.0023	0.0112	90,853	40.21
40	0.0028	0.0141	89,831	35.64
45	0.0046	0.0228	88,565	31.11
50	0.0073	0.0357	86,547	26.78
55	0.0118	0.0571	83,458	22.68
60	0.0172	0.0825	78,689	18.90
65	0.0267	0.1253	72,195	15.38
70	0.0414	0.1875	63,147	12.22
75	0.0655	0.2814	51,308	9.46
80	0.1022	0.4070	36,872	7.19
85	0.1850	1	21,866	5.41

WHO LIFE TABLE FOR 1999: LAO PEOPLE'S DEMOCRATIC REPUBLIC

**Males**

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1280	0.1147	100,000	53.75
1	0.0082	0.0321	88,526	59.71
5	0.0027	0.0134	85,688	57.63
10	0.0021	0.0104	84,540	53.38
15	0.0033	0.0163	83,663	48.91
20	0.0041	0.0203	82,299	44.68
25	0.0038	0.0190	80,630	40.56
30	0.0050	0.0249	79,096	36.29
35	0.0059	0.0291	77,127	32.16
40	0.0078	0.0384	74,881	28.05
45	0.0115	0.0559	72,005	24.07
50	0.0171	0.0821	67,976	20.34
55	0.0247	0.1165	62,395	16.94
60	0.0393	0.1788	55,125	13.84
65	0.0544	0.2392	45,270	11.31
70	0.0768	0.3220	34,439	9.09
75	0.1075	0.4237	23,350	7.21
80	0.1484	0.5412	13,456	5.68
85	0.2256	1	6,173	4.43

**Females**

0	0.1038	0.0949	100,000	56.78
1	0.0086	0.0338	90,509	61.72
5	0.0020	0.0098	87,445	59.83
10	0.0016	0.0079	86,587	55.40
15	0.0028	0.0141	85,900	50.82
20	0.0038	0.0186	84,688	46.51
25	0.0034	0.0170	83,110	42.35
30	0.0041	0.0201	81,699	38.04
35	0.0046	0.0227	80,056	33.77
40	0.0065	0.0318	78,240	29.49
45	0.0098	0.0478	75,750	25.38
50	0.0150	0.0723	72,130	21.53
55	0.0220	0.1041	66,917	18.01
60	0.0320	0.1480	59,954	14.81
65	0.0464	0.2080	51,080	11.95
70	0.0698	0.2970	40,454	9.43
75	0.1022	0.4070	28,438	7.36
80	0.1473	0.5383	16,864	5.69
85	0.2265	1	7,787	4.41

## WHO LIFE TABLE FOR 1999: LATVIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0167	0.0165	100,000	63.57
1	0.0012	0.0047	98,351	63.63
5	0.0005	0.0026	97,893	59.92
10	0.0003	0.0015	97,638	55.07
15	0.0014	0.0070	97,494	50.15
20	0.0027	0.0132	96,810	45.49
25	0.0033	0.0165	95,533	41.06
30	0.0040	0.0199	93,959	36.71
35	0.0062	0.0304	92,085	32.40
40	0.0087	0.0425	89,286	28.34
45	0.0132	0.0638	85,489	24.49
50	0.0194	0.0926	80,034	20.99
55	0.0268	0.1256	72,623	17.87
60	0.0354	0.1627	63,503	15.08
65	0.0467	0.2091	53,170	12.53
70	0.0654	0.2811	42,054	10.18
75	0.0872	0.3578	30,233	8.18
80	0.1306	0.4923	19,415	6.34
85	0.1972	1	9,857	5.07

### Females

0	0.0131	0.0130	100,000	74.58
1	0.0007	0.0029	98,701	74.56
5	0.0003	0.0017	98,419	70.77
10	0.0002	0.0012	98,248	65.89
15	0.0005	0.0027	98,134	60.96
20	0.0007	0.0035	97,867	56.12
25	0.0009	0.0043	97,521	51.31
30	0.0012	0.0061	97,105	46.52
35	0.0017	0.0083	96,509	41.79
40	0.0027	0.0134	95,710	37.12
45	0.0044	0.0217	94,428	32.59
50	0.0066	0.0325	92,382	28.25
55	0.0095	0.0464	89,381	24.12
60	0.0125	0.0606	85,236	20.17
65	0.0206	0.0979	80,068	16.31
70	0.0333	0.1538	72,232	12.81
75	0.0573	0.2507	61,120	9.68
80	0.1005	0.4017	45,798	7.09
85	0.1937	1	27,403	5.16

## WHO LIFE TABLE FOR 1999: LEBONON

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0218	0.0214	100,000	66.09
1	0.0024	0.0094	97,862	66.54
5	0.0006	0.0031	96,945	63.15
10	0.0005	0.0026	96,644	58.34
15	0.0006	0.0031	96,395	53.48
20	0.0007	0.0036	96,096	48.64
25	0.0010	0.0048	95,754	43.81
30	0.0013	0.0065	95,293	39.01
35	0.0020	0.0101	94,669	34.25
40	0.0029	0.0143	93,715	29.57
45	0.0047	0.0231	92,380	24.96
50	0.0090	0.0440	90,250	20.49
55	0.0155	0.0746	86,277	16.32
60	0.0315	0.1460	79,842	12.43
65	0.0563	0.2466	68,183	9.13
70	0.1113	0.4354	51,366	6.30
75	0.2058	0.6794	29,003	4.24
80	0.3418	0.9215	9,298	2.91
85	0.3633	1	730	2.75

### Females

0	0.0155	0.0153	100,000	67.46
1	0.0025	0.0099	98,474	67.51
5	0.0005	0.0026	97,501	64.17
10	0.0004	0.0021	97,247	59.33
15	0.0005	0.0027	97,038	54.45
20	0.0006	0.0031	96,777	49.59
25	0.0009	0.0043	96,473	44.74
30	0.0010	0.0050	96,057	39.92
35	0.0016	0.0080	95,578	35.11
40	0.0020	0.0100	94,811	30.37
45	0.0036	0.0178	93,859	25.65
50	0.0072	0.0352	92,191	21.07
55	0.0118	0.0573	88,945	16.75
60	0.0280	0.1310	83,846	12.62
65	0.0544	0.2394	72,865	9.14
70	0.1149	0.4464	55,422	6.23
75	0.2031	0.6735	30,680	4.24
80	0.3505	0.9340	10,017	2.84
85	0.3752	1	661	2.66

## WHO LIFE TABLE FOR 1999: LESOTHO

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0855	0.0806	100,000	44.04
1	0.0189	0.0722	91,935	46.88
5	0.0049	0.0241	85,301	46.40
10	0.0031	0.0155	83,248	42.48
15	0.0048	0.0237	81,954	38.11
20	0.0085	0.0418	80,013	33.97
25	0.0165	0.0792	76,672	30.35
30	0.0248	0.1168	70,601	27.74
35	0.0275	0.1285	62,356	26.08
40	0.0273	0.1280	54,340	24.56
45	0.0265	0.1243	47,387	22.79
50	0.0249	0.1170	41,495	20.67
55	0.0243	0.1144	36,639	18.08
60	0.0305	0.1417	32,448	15.10
65	0.0446	0.2003	27,850	12.17
70	0.0674	0.2866	22,270	9.61
75	0.0959	0.3822	15,887	7.51
80	0.1436	0.5173	9,815	5.70
85	0.2303	1	4,738	4.34

### Females

0	0.0760	0.0721	100,000	45.10
1	0.0173	0.0664	92,785	47.58
5	0.0045	0.0222	86,624	46.85
10	0.0029	0.0146	84,697	42.86
15	0.0059	0.0292	83,457	38.46
20	0.0136	0.0658	81,018	34.55
25	0.0225	0.1063	75,686	31.80
30	0.0273	0.1276	67,639	30.29
35	0.0242	0.1142	59,008	29.35
40	0.0212	0.1008	52,269	27.82
45	0.0173	0.0829	47,000	25.66
50	0.0163	0.0784	43,102	22.75
55	0.0180	0.0862	39,722	19.47
60	0.0243	0.1146	36,297	16.07
65	0.0370	0.1689	32,136	12.83
70	0.0605	0.2613	26,707	9.94
75	0.0935	0.3746	19,728	7.61
80	0.1375	0.5014	12,337	5.76
85	0.2357	1	6,152	4.24

## WHO LIFE TABLE FOR 1999: LIBERIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1332	0.1218	100,000	42.43
1	0.0279	0.1046	87,818	47.27
5	0.0075	0.0369	78,633	48.60
10	0.0049	0.0242	75,735	45.37
15	0.0065	0.0320	73,903	41.43
20	0.0092	0.0450	71,537	37.72
25	0.0120	0.0583	68,317	34.38
30	0.0144	0.0696	64,334	31.35
35	0.0158	0.0758	59,859	28.51
40	0.0176	0.0845	55,320	25.64
45	0.0191	0.0911	50,644	22.78
50	0.0223	0.1058	46,032	19.81
55	0.0271	0.1270	41,160	16.86
60	0.0372	0.1704	35,935	13.95
65	0.0534	0.2352	29,813	11.30
70	0.0774	0.3220	22,802	9.02
75	0.1064	0.4151	15,460	7.17
80	0.1477	0.5280	9,042	5.59
85	0.2347	1	4,268	4.26

### Females

0	0.1211	0.1116	100,000	44.85
1	0.0251	0.0947	88,840	49.44
5	0.0073	0.0356	80,431	50.44
10	0.0048	0.0238	77,566	47.21
15	0.0062	0.0306	75,724	43.30
20	0.0091	0.0444	73,409	39.59
25	0.0123	0.0597	70,151	36.31
30	0.0137	0.0664	65,963	33.46
35	0.0141	0.0682	61,580	30.66
40	0.0144	0.0697	57,380	27.72
45	0.0145	0.0698	53,382	24.61
50	0.0171	0.0818	49,657	21.27
55	0.0221	0.1048	45,593	17.94
60	0.0314	0.1456	40,816	14.75
65	0.0463	0.2069	34,874	11.84
70	0.0711	0.2999	27,657	9.29
75	0.1028	0.4040	19,363	7.24
80	0.1484	0.5298	11,540	5.55
85	0.2375	1	5,426	4.21



## WHO LIFE TABLE FOR 1999: LIBYAN ARAB J AMAHIRIYA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0288	0.0281	100,000	64.96
1	0.0029	0.0116	97,191	65.83
5	0.0008	0.0038	96,067	62.58
10	0.0006	0.0031	95,703	57.81
15	0.0008	0.0038	95,402	52.98
20	0.0009	0.0043	95,044	48.18
25	0.0012	0.0058	94,637	43.37
30	0.0016	0.0078	94,092	38.61
35	0.0024	0.0119	93,359	33.89
40	0.0033	0.0166	92,251	29.27
45	0.0054	0.0264	90,721	24.72
50	0.0101	0.0494	88,322	20.32
55	0.0170	0.0813	83,960	16.25
60	0.0333	0.1537	77,130	12.47
65	0.0572	0.2501	65,277	9.28
70	0.1091	0.4285	48,952	6.54
75	0.1867	0.6364	27,975	4.57
80	0.3042	0.8640	10,172	3.18
85	0.3992	1	1,384	2.51

### Females

0	0.0229	0.0224	100,000	66.86
1	0.0031	0.0124	97,756	67.39
5	0.0006	0.0032	96,543	64.22
10	0.0005	0.0026	96,238	59.42
15	0.0006	0.0032	95,990	54.56
20	0.0007	0.0037	95,683	49.73
25	0.0010	0.0050	95,330	44.91
30	0.0011	0.0057	94,852	40.12
35	0.0018	0.0090	94,312	35.33
40	0.0022	0.0110	93,462	30.63
45	0.0038	0.0190	92,430	25.95
50	0.0074	0.0362	90,672	21.40
55	0.0116	0.0562	87,387	17.11
60	0.0275	0.1286	82,472	12.98
65	0.0502	0.2229	71,869	9.53
70	0.1030	0.4094	55,847	6.55
75	0.1960	0.6577	32,983	4.35
80	0.3398	0.9186	11,290	2.91
85	0.3992	1	919	2.51

## WHO LIFE TABLE FOR 1999: LITHUANIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0130	0.0128	100,000	66.84
1	0.0008	0.0031	98,715	66.71
5	0.0004	0.0022	98,411	62.91
10	0.0004	0.0018	98,195	58.04
15	0.0011	0.0057	98,015	53.14
20	0.0028	0.0137	97,457	48.43
25	0.0029	0.0144	96,123	44.07
30	0.0035	0.0175	94,740	39.68
35	0.0049	0.0243	93,084	35.34
40	0.0075	0.0367	90,821	31.16
45	0.0109	0.0530	87,493	27.25
50	0.0143	0.0692	82,855	23.63
55	0.0189	0.0901	77,118	20.21
60	0.0263	0.1236	70,167	16.96
65	0.0378	0.1726	61,497	14.00
70	0.0523	0.2311	50,881	11.40
75	0.0816	0.3388	39,122	9.07
80	0.1014	0.4045	25,867	7.44
85	0.1726	1	15,405	5.79

### Females

0	0.0073	0.0073	100,000	78.14
1	0.0004	0.0017	99,273	77.72
5	0.0002	0.0009	99,100	73.85
10	0.0002	0.0010	99,014	68.91
15	0.0003	0.0014	98,917	63.97
20	0.0005	0.0027	98,779	59.06
25	0.0006	0.0028	98,516	54.21
30	0.0009	0.0045	98,242	49.36
35	0.0013	0.0066	97,800	44.57
40	0.0020	0.0100	97,150	39.85
45	0.0033	0.0164	96,176	35.23
50	0.0045	0.0224	94,595	30.77
55	0.0065	0.0321	92,474	26.42
60	0.0087	0.0427	89,508	22.22
65	0.0142	0.0687	85,687	18.09
70	0.0256	0.1202	79,801	14.24
75	0.0476	0.2128	70,212	10.85
80	0.0777	0.3252	55,269	8.11
85	0.1722	1	37,297	5.81

## WHO LIFE TABLE FOR 1999: LUXEMBOURG

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0049	0.0049	100,000	74.51
1	0.0004	0.0014	99,513	73.88
5	0.0000	0.0000	99,370	69.98
10	0.0001	0.0006	99,370	64.98
15	0.0009	0.0045	99,313	60.02
20	0.0023	0.0116	98,863	55.28
25	0.0010	0.0048	97,714	50.90
30	0.0015	0.0075	97,246	46.13
35	0.0021	0.0107	96,517	41.46
40	0.0030	0.0149	95,488	36.88
45	0.0033	0.0165	94,061	32.40
50	0.0068	0.0336	92,510	27.90
55	0.0089	0.0434	89,397	23.79
60	0.0151	0.0728	85,518	19.75
65	0.0233	0.1100	79,293	16.11
70	0.0393	0.1789	70,574	12.79
75	0.0583	0.2544	57,948	10.03
80	0.0909	0.3705	43,204	7.60
85	0.1785	1	27,197	5.60

### Females

0	0.0045	0.0045	100,000	81.37
1	0.0003	0.0012	99,553	80.73
5	0.0000	0.0000	99,431	76.83
10	0.0001	0.0005	99,431	71.83
15	0.0001	0.0005	99,384	66.86
20	0.0006	0.0031	99,335	61.89
25	0.0006	0.0032	99,031	57.07
30	0.0004	0.0020	98,710	52.25
35	0.0009	0.0044	98,513	47.35
40	0.0014	0.0072	98,080	42.55
45	0.0022	0.0111	97,379	37.84
50	0.0030	0.0148	96,300	33.23
55	0.0051	0.0251	94,874	28.70
60	0.0081	0.0399	92,495	24.37
65	0.0104	0.0507	88,805	20.28
70	0.0182	0.0870	84,302	16.23
75	0.0309	0.1433	76,963	12.54
80	0.0610	0.2647	65,936	9.22
85	0.1508	1	48,484	6.63

## WHO LIFE TABLE FOR 1999: MADAGAS CAR

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1001	0.0936	100,000	44.93
1	0.0248	0.0937	90,641	48.53
5	0.0075	0.0368	82,145	49.39
10	0.0049	0.0244	79,121	46.18
15	0.0066	0.0323	77,192	42.27
20	0.0087	0.0428	74,697	38.60
25	0.0103	0.0500	71,501	35.21
30	0.0106	0.0515	67,927	31.94
35	0.0124	0.0601	64,429	28.53
40	0.0150	0.0722	60,554	25.20
45	0.0174	0.0834	56,180	21.97
50	0.0220	0.1045	51,494	18.74
55	0.0301	0.1401	46,115	15.63
60	0.0426	0.1925	39,653	12.77
65	0.0625	0.2695	32,021	10.22
70	0.0919	0.3708	23,391	8.09
75	0.1259	0.4719	14,717	6.44
80	0.1718	0.5869	7,772	5.09
85	0.2466	1	3,211	4.05

### Females

0	0.0822	0.0777	100,000	47.61
1	0.0227	0.0860	92,231	50.59
5	0.0070	0.0346	84,298	51.20
10	0.0048	0.0235	81,382	47.95
15	0.0056	0.0278	79,470	44.04
20	0.0072	0.0356	77,262	40.23
25	0.0090	0.0439	74,513	36.62
30	0.0099	0.0485	71,241	33.19
35	0.0115	0.0558	67,784	29.75
40	0.0134	0.0650	64,003	26.36
45	0.0152	0.0731	59,839	23.02
50	0.0184	0.0878	55,463	19.64
55	0.0257	0.1206	50,591	16.30
60	0.0376	0.1720	44,491	13.19
65	0.0584	0.2540	36,839	10.41
70	0.0888	0.3607	27,480	8.12
75	0.1279	0.4775	17,567	6.34
80	0.1757	0.5958	9,179	4.99
85	0.2530	1	3,710	3.95

## WHO LIFE TABLE FOR 1999: MALAWI

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1380	0.1259	100,000	37.30
1	0.0294	0.1097	87,414	41.63
5	0.0076	0.0373	77,820	42.56
10	0.0050	0.0245	74,914	39.12
15	0.0071	0.0351	73,079	35.03
20	0.0116	0.0564	70,517	31.22
25	0.0200	0.0953	66,540	27.93
30	0.0273	0.1278	60,196	25.61
35	0.0297	0.1381	52,505	24.00
40	0.0304	0.1413	45,254	22.44
45	0.0301	0.1401	38,860	20.73
50	0.0301	0.1402	33,417	18.69
55	0.0312	0.1448	28,733	16.33
60	0.0392	0.1784	24,571	13.68
65	0.0546	0.2395	20,189	11.10
70	0.0796	0.3297	15,355	8.83
75	0.1113	0.4298	10,292	6.99
80	0.1532	0.5419	5,868	5.49
85	0.2349	1	2,688	4.26

### Females

0	0.1347	0.1231	100,000	38.34
1	0.0278	0.1041	87,692	42.68
5	0.0075	0.0370	78,560	43.45
10	0.0047	0.0233	75,650	40.03
15	0.0079	0.0386	73,884	35.92
20	0.0155	0.0747	71,031	32.27
25	0.0246	0.1161	65,724	29.67
30	0.0287	0.1337	58,094	28.24
35	0.0259	0.1217	50,328	27.21
40	0.0240	0.1133	44,204	25.63
45	0.0208	0.0988	39,195	23.59
50	0.0208	0.0988	35,321	20.90
55	0.0237	0.1121	31,831	17.92
60	0.0314	0.1454	28,263	14.86
65	0.0461	0.2064	24,154	11.97
70	0.0699	0.2959	19,169	9.44
75	0.1004	0.3964	13,497	7.40
80	0.1407	0.5099	8,147	5.72
85	0.2339	1	3,993	4.28

## WHO LIFE TABLE FOR 1999: MALAYSIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0081	0.0080	100,000	67.60
1	0.0016	0.0066	99,200	67.14
5	0.0006	0.0030	98,549	63.57
10	0.0004	0.0022	98,252	58.76
15	0.0005	0.0027	98,034	53.88
20	0.0012	0.0058	97,769	49.02
25	0.0010	0.0051	97,199	44.30
30	0.0015	0.0075	96,703	39.51
35	0.0021	0.0103	95,978	34.79
40	0.0032	0.0158	94,991	30.12
45	0.0055	0.0272	93,494	25.57
50	0.0104	0.0505	90,949	21.21
55	0.0124	0.0603	86,358	17.21
60	0.0320	0.1480	81,154	13.15
65	0.0539	0.2370	69,145	10.00
70	0.0965	0.3858	52,756	7.35
75	0.1484	0.5326	32,403	5.45
80	0.2349	0.7186	15,147	3.99
85	0.3035	1	4,262	3.30

### Females

0	0.0082	0.0081	100,000	69.93
1	0.0013	0.0052	99,190	69.50
5	0.0004	0.0019	98,670	65.86
10	0.0003	0.0015	98,479	60.98
15	0.0006	0.0030	98,331	56.07
20	0.0008	0.0038	98,033	51.23
25	0.0009	0.0046	97,661	46.42
30	0.0010	0.0049	97,214	41.62
35	0.0014	0.0071	96,739	36.81
40	0.0020	0.0098	96,047	32.06
45	0.0033	0.0162	95,102	27.35
50	0.0060	0.0298	93,561	22.76
55	0.0106	0.0514	90,777	18.39
60	0.0220	0.1042	86,109	14.25
65	0.0398	0.1808	77,139	10.61
70	0.0938	0.3770	63,193	7.41
75	0.1674	0.5797	39,369	5.45
80	0.1740	0.5919	16,546	4.72
85	0.3094	1	6,752	3.23

## WHO LIFE TABLE FOR 1999: MALDIVES

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0691	0.0650	100,000	63.11
1	0.0068	0.0268	93,496	66.50
5	0.0018	0.0088	90,994	64.28
10	0.0011	0.0053	90,194	59.83
15	0.0013	0.0065	89,714	55.13
20	0.0018	0.0091	89,135	50.48
25	0.0022	0.0110	88,327	45.92
30	0.0027	0.0132	87,352	41.40
35	0.0032	0.0160	86,200	36.92
40	0.0048	0.0236	84,822	32.48
45	0.0069	0.0338	82,816	28.21
50	0.0106	0.0515	80,016	24.11
55	0.0148	0.0715	75,898	20.28
60	0.0247	0.1162	70,473	16.65
65	0.0358	0.1643	62,287	13.51
70	0.0553	0.2431	52,051	10.67
75	0.0835	0.3455	39,398	8.29
80	0.1241	0.4735	25,785	6.35
85	0.2077	1	13,575	4.81

### Females

0	0.0553	0.0526	100,000	62.58
1	0.0090	0.0352	94,736	65.05
5	0.0025	0.0124	91,398	63.36
10	0.0013	0.0064	90,268	59.13
15	0.0020	0.0098	89,687	54.49
20	0.0027	0.0133	88,810	50.01
25	0.0026	0.0129	87,625	45.65
30	0.0028	0.0139	86,496	41.21
35	0.0030	0.0148	85,296	36.76
40	0.0040	0.0198	84,034	32.27
45	0.0056	0.0277	82,369	27.87
50	0.0098	0.0476	80,085	23.60
55	0.0142	0.0687	76,273	19.65
60	0.0243	0.1146	71,031	15.92
65	0.0363	0.1664	62,890	12.65
70	0.0620	0.2684	52,427	9.68
75	0.0977	0.3926	38,358	7.31
80	0.1521	0.5511	23,298	5.42
85	0.2490	1	10,459	4.02

## WHO LIFE TABLE FOR 1999: MALI

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1585	0.1426	100,000	41.26
1	0.0304	0.1134	85,736	47.07
5	0.0082	0.0404	76,013	48.89
10	0.0052	0.0255	72,943	45.84
15	0.0068	0.0335	71,080	41.98
20	0.0094	0.0457	68,699	38.35
25	0.0118	0.0572	65,556	35.06
30	0.0129	0.0627	61,805	32.04
35	0.0142	0.0684	57,933	29.02
40	0.0166	0.0795	53,967	25.96
45	0.0181	0.0868	49,677	22.99
50	0.0215	0.1022	45,365	19.94
55	0.0273	0.1280	40,728	16.92
60	0.0371	0.1700	35,515	14.04
65	0.0525	0.2316	29,479	11.40
70	0.0753	0.3149	22,652	9.10
75	0.1077	0.4189	15,518	7.18
80	0.1471	0.5265	9,018	5.67
85	0.2265	1	4,270	4.42

### Females

0	0.1500	0.1358	100,000	43.93
1	0.0286	0.1070	86,422	49.78
5	0.0080	0.0393	77,171	51.56
10	0.0049	0.0244	74,141	48.56
15	0.0063	0.0310	72,329	44.71
20	0.0076	0.0374	70,083	41.07
25	0.0103	0.0502	67,461	37.57
30	0.0126	0.0610	64,074	34.42
35	0.0127	0.0616	60,166	31.49
40	0.0134	0.0650	56,459	28.40
45	0.0132	0.0640	52,789	25.20
50	0.0157	0.0755	49,408	21.75
55	0.0213	0.1009	45,679	18.32
60	0.0305	0.1419	41,069	15.10
65	0.0443	0.1990	35,241	12.18
70	0.0703	0.2973	28,228	9.60
75	0.0963	0.3838	19,835	7.64
80	0.1317	0.4857	12,223	5.94
85	0.2283	1	6,286	4.38



## WHO LIFE TABLE FOR 1999: MALTA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0079	0.0078	100,000	75.63
1	0.0004	0.0017	99,218	75.23
5	0.0000	0.0000	99,051	71.35
10	0.0003	0.0015	99,051	66.35
15	0.0005	0.0025	98,906	61.45
20	0.0010	0.0051	98,660	56.59
25	0.0009	0.0042	98,156	51.87
30	0.0012	0.0060	97,739	47.08
35	0.0014	0.0072	97,151	42.35
40	0.0013	0.0064	96,456	37.64
45	0.0024	0.0118	95,835	32.87
50	0.0041	0.0202	94,708	28.23
55	0.0070	0.0342	92,797	23.76
60	0.0102	0.0499	89,622	19.51
65	0.0246	0.1160	85,152	15.40
70	0.0365	0.1672	75,274	12.10
75	0.0657	0.2820	62,690	9.02
80	0.1114	0.4355	45,012	6.58
85	0.2112	1	25,407	4.74

### Females

0	0.0043	0.0042	100,000	80.81
1	0.0004	0.0015	99,575	80.16
5	0.0001	0.0006	99,421	76.28
10	0.0001	0.0003	99,366	71.32
15	0.0002	0.0011	99,339	66.34
20	0.0001	0.0006	99,232	61.41
25	0.0001	0.0007	99,175	56.44
30	0.0004	0.0022	99,108	51.48
35	0.0004	0.0019	98,886	46.59
40	0.0007	0.0037	98,698	41.67
45	0.0013	0.0063	98,337	36.82
50	0.0024	0.0122	97,722	32.03
55	0.0036	0.0176	96,534	27.39
60	0.0058	0.0285	94,834	22.84
65	0.0122	0.0591	92,132	18.44
70	0.0238	0.1125	86,686	14.44
75	0.0472	0.2111	76,935	10.95
80	0.0727	0.3077	60,690	8.21
85	0.1738	1	42,017	5.75

## WHO LIFE TABLE FOR 1999: MARSHALL ISLANDS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0479	0.0460	100,000	63.97
1	0.0038	0.0152	95,405	66.05
5	0.0013	0.0065	93,955	63.04
10	0.0010	0.0052	93,339	58.44
15	0.0017	0.0083	92,858	53.73
20	0.0021	0.0105	92,092	49.16
25	0.0020	0.0101	91,122	44.66
30	0.0027	0.0136	90,200	40.09
35	0.0033	0.0164	88,973	35.60
40	0.0045	0.0224	87,515	31.16
45	0.0070	0.0342	85,556	26.81
50	0.0110	0.0534	82,630	22.67
55	0.0171	0.0819	78,217	18.81
60	0.0275	0.1285	71,810	15.27
65	0.0421	0.1903	62,582	12.15
70	0.0658	0.2825	50,674	9.42
75	0.1019	0.4062	36,359	7.14
80	0.1576	0.5652	21,591	5.31
85	0.2519	1	9,388	3.97

### Females

0	0.0383	0.0370	100,000	67.07
1	0.0037	0.0148	96,296	68.65
5	0.0009	0.0044	94,866	65.66
10	0.0007	0.0036	94,449	60.94
15	0.0013	0.0065	94,109	56.15
20	0.0018	0.0087	93,499	51.50
25	0.0016	0.0081	92,683	46.93
30	0.0020	0.0098	91,932	42.29
35	0.0023	0.0113	91,033	37.68
40	0.0033	0.0162	90,007	33.09
45	0.0051	0.0253	88,546	28.59
50	0.0082	0.0404	86,304	24.27
55	0.0129	0.0623	82,820	20.18
60	0.0217	0.1029	77,660	16.36
65	0.0350	0.1610	69,671	12.95
70	0.0594	0.2586	58,457	9.95
75	0.0932	0.3779	43,339	7.55
80	0.1436	0.5283	26,962	5.62
85	0.2431	1	12,719	4.11

## WHO LIFE TABLE FOR 1999: MAURITANIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1260	0.1158	100,000	49.50
1	0.0217	0.0827	88,425	54.94
5	0.0058	0.0285	81,115	55.75
10	0.0037	0.0181	78,804	52.31
15	0.0048	0.0235	77,377	48.23
20	0.0064	0.0313	75,557	44.33
25	0.0075	0.0369	73,189	40.69
30	0.0079	0.0388	70,488	37.15
35	0.0089	0.0436	67,754	33.55
40	0.0104	0.0505	64,800	29.96
45	0.0116	0.0563	61,531	26.42
50	0.0145	0.0702	58,066	22.85
55	0.0194	0.0926	53,991	19.39
60	0.0271	0.1268	48,993	16.11
65	0.0390	0.1774	42,783	13.09
70	0.0592	0.2564	35,193	10.38
75	0.0857	0.3492	26,169	8.13
80	0.1238	0.4640	17,032	6.23
85	0.2157	1	9,129	4.64

### Females

0	0.1110	0.1030	100,000	52.93
1	0.0189	0.0722	89,698	57.97
5	0.0054	0.0266	83,222	58.36
10	0.0035	0.0175	81,005	54.89
15	0.0041	0.0204	79,584	50.82
20	0.0052	0.0259	77,963	46.83
25	0.0063	0.0311	75,945	43.01
30	0.0070	0.0343	73,580	39.31
35	0.0078	0.0383	71,059	35.61
40	0.0086	0.0421	68,335	31.93
45	0.0091	0.0445	65,462	28.23
50	0.0113	0.0549	62,546	24.43
55	0.0153	0.0735	59,110	20.70
60	0.0220	0.1042	54,764	17.15
65	0.0335	0.1541	49,057	13.85
70	0.0520	0.2290	41,497	10.93
75	0.0782	0.3238	31,993	8.46
80	0.1166	0.4433	21,634	6.38
85	0.2158	1	12,043	4.63

## WHO LIFE TABLE FOR 1999: MAURITIUS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0242	0.0237	100,000	66.69
1	0.0005	0.0021	97,628	67.31
5	0.0003	0.0016	97,424	63.45
10	0.0004	0.0021	97,269	58.54
15	0.0007	0.0036	97,065	53.66
20	0.0011	0.0057	96,711	48.85
25	0.0016	0.0077	96,158	44.12
30	0.0024	0.0120	95,415	39.44
35	0.0037	0.0183	94,268	34.89
40	0.0056	0.0278	92,545	30.49
45	0.0080	0.0390	89,976	26.29
50	0.0132	0.0637	86,464	22.26
55	0.0205	0.0976	80,957	18.60
60	0.0280	0.1310	73,057	15.34
65	0.0443	0.1996	63,485	12.28
70	0.0644	0.2775	50,816	9.72
75	0.0992	0.3976	36,716	7.49
80	0.1422	0.5244	22,119	5.79
85	0.2269	1	10,519	4.41

### Females

0	0.0133	0.0131	100,000	74.05
1	0.0004	0.0016	98,686	74.04
5	0.0003	0.0014	98,526	70.15
10	0.0002	0.0011	98,389	65.25
15	0.0005	0.0023	98,282	60.32
20	0.0005	0.0027	98,060	55.45
25	0.0008	0.0038	97,793	50.59
30	0.0010	0.0048	97,417	45.78
35	0.0013	0.0063	96,946	40.99
40	0.0018	0.0088	96,339	36.23
45	0.0033	0.0162	95,492	31.53
50	0.0059	0.0289	93,944	27.01
55	0.0097	0.0475	91,233	22.73
60	0.0168	0.0807	86,897	18.74
65	0.0281	0.1311	79,883	15.17
70	0.0360	0.1652	69,412	12.08
75	0.0667	0.2857	57,948	8.98
80	0.1187	0.4577	41,394	6.57
85	0.1999	1	22,448	5.00

## WHO LIFE TABLE FOR 1999: MEXICO

### Males

$x$	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0219	0.0215	100,000	70.98
1	0.0012	0.0049	97,855	71.54
5	0.0004	0.0021	97,379	67.88
10	0.0004	0.0022	97,178	63.01
15	0.0011	0.0055	96,960	58.15
20	0.0018	0.0092	96,423	53.46
25	0.0023	0.0117	95,538	48.93
30	0.0030	0.0147	94,423	44.48
35	0.0038	0.0186	93,034	40.11
40	0.0046	0.0226	91,302	35.82
45	0.0061	0.0299	89,239	31.59
50	0.0084	0.0411	86,573	27.49
55	0.0121	0.0586	83,014	23.56
60	0.0177	0.0847	78,148	19.87
65	0.0258	0.1211	71,530	16.48
70	0.0394	0.1795	62,870	13.40
75	0.0594	0.2587	51,584	10.79
80	0.0794	0.3312	38,241	8.68
85	0.1484	1	25,574	6.74

### Females

0	0.0186	0.0183	100,000	77.15
1	0.0011	0.0046	98,171	77.59
5	0.0003	0.0016	97,723	73.93
10	0.0003	0.0016	97,570	69.05
15	0.0005	0.0025	97,417	64.15
20	0.0006	0.0031	97,171	59.31
25	0.0007	0.0037	96,871	54.48
30	0.0010	0.0051	96,511	49.68
35	0.0015	0.0075	96,021	44.92
40	0.0021	0.0103	95,304	40.24
45	0.0033	0.0165	94,322	35.63
50	0.0051	0.0250	92,761	31.19
55	0.0082	0.0401	90,440	26.92
60	0.0127	0.0614	86,813	22.94
65	0.0187	0.0893	81,480	19.28
70	0.0271	0.1269	74,203	15.93
75	0.0419	0.1898	64,788	12.88
80	0.0604	0.2625	52,490	10.31
85	0.1237	1	38,712	8.09

**WHO LIFE TABLE FOR 1999: MICRONESIA, FEDERATED STATES OF**

**Males**

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0337	0.0327	100,000	66.42
1	0.0029	0.0116	96,730	67.66
5	0.0010	0.0050	95,612	64.43
10	0.0008	0.0040	95,130	59.75
15	0.0013	0.0064	94,751	54.98
20	0.0017	0.0083	94,141	50.32
25	0.0016	0.0080	93,361	45.72
30	0.0022	0.0109	92,611	41.07
35	0.0027	0.0133	91,603	36.49
40	0.0037	0.0184	90,388	31.95
45	0.0058	0.0285	88,728	27.50
50	0.0093	0.0455	86,198	23.23
55	0.0149	0.0718	82,272	19.22
60	0.0248	0.1167	76,361	15.51
65	0.0395	0.1797	67,447	12.23
70	0.0643	0.2770	55,330	9.37
75	0.1033	0.4105	40,002	7.00
80	0.1633	0.5799	23,582	5.13
85	0.2659	1	9,907	3.76

**Females**

0	0.0223	0.0219	100,000	70.05
1	0.0025	0.0098	97,814	70.61
5	0.0006	0.0030	96,854	67.30
10	0.0005	0.0024	96,567	62.49
15	0.0009	0.0045	96,331	57.64
20	0.0012	0.0061	95,902	52.88
25	0.0011	0.0057	95,319	48.19
30	0.0014	0.0070	94,774	43.46
35	0.0016	0.0082	94,110	38.74
40	0.0024	0.0120	93,341	34.04
45	0.0039	0.0191	92,221	29.43
50	0.0064	0.0315	90,456	24.95
55	0.0104	0.0507	87,605	20.68
60	0.0184	0.0881	83,167	16.65
65	0.0316	0.1465	75,837	13.02
70	0.0574	0.2509	64,725	9.83
75	0.0957	0.3861	48,483	7.28
80	0.1532	0.5539	29,763	5.29
85	0.2667	1	13,278	3.75

## WHO LIFE TABLE FOR 1999: MONACO

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0075	0.0074	100,000	74.69
1	0.0004	0.0017	99,258	74.24
5	0.0002	0.0009	99,086	70.37
10	0.0002	0.0010	98,999	65.43
15	0.0007	0.0033	98,899	60.49
20	0.0012	0.0058	98,572	55.69
25	0.0013	0.0066	97,996	51.00
30	0.0017	0.0083	97,353	46.32
35	0.0022	0.0110	96,542	41.69
40	0.0033	0.0162	95,477	37.12
45	0.0046	0.0226	93,931	32.69
50	0.0067	0.0331	91,805	28.39
55	0.0099	0.0482	88,764	24.28
60	0.0151	0.0729	84,490	20.38
65	0.0227	0.1072	78,331	16.79
70	0.0338	0.1560	69,931	13.51
75	0.0506	0.2245	59,025	10.54
80	0.0909	0.3704	45,776	7.86
85	0.1661	1	28,821	6.02

### Females

0	0.0055	0.0055	100,000	83.49
1	0.0003	0.0012	99,450	82.95
5	0.0001	0.0006	99,330	79.05
10	0.0001	0.0006	99,270	74.10
15	0.0003	0.0013	99,211	69.14
20	0.0004	0.0019	99,084	64.23
25	0.0005	0.0023	98,894	59.35
30	0.0007	0.0033	98,671	54.47
35	0.0009	0.0045	98,349	49.64
40	0.0013	0.0064	97,905	44.86
45	0.0018	0.0092	97,275	40.13
50	0.0026	0.0132	96,382	35.48
55	0.0037	0.0181	95,113	30.92
60	0.0053	0.0264	93,388	26.45
65	0.0082	0.0403	90,927	22.09
70	0.0137	0.0665	87,263	17.92
75	0.0234	0.1105	81,464	14.01
80	0.0499	0.2218	72,465	10.44
85	0.1297	1	56,390	7.71

## WHO LIFE TABLE FOR 1999: MONGOLIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1110	0.1009	100,000	59.10
1	0.0063	0.0249	89,912	64.72
5	0.0021	0.0102	87,673	62.33
10	0.0016	0.0079	86,774	57.95
15	0.0025	0.0123	86,090	53.39
20	0.0031	0.0152	85,029	49.03
25	0.0029	0.0142	83,732	44.75
30	0.0037	0.0185	82,542	40.36
35	0.0044	0.0215	81,016	36.07
40	0.0057	0.0283	79,272	31.81
45	0.0084	0.0410	77,032	27.66
50	0.0124	0.0602	73,871	23.74
55	0.0179	0.0857	69,426	20.10
60	0.0267	0.1253	63,474	16.75
65	0.0377	0.1718	55,522	13.79
70	0.0549	0.2400	45,985	11.14
75	0.0780	0.3232	34,947	8.90
80	0.1101	0.4242	23,654	7.02
85	0.1818	1	13,619	5.50

### Females

0	0.0907	0.0839	100,000	65.00
1	0.0057	0.0223	91,613	69.94
5	0.0012	0.0062	89,568	67.50
10	0.0010	0.0050	89,011	62.91
15	0.0017	0.0087	88,568	58.21
20	0.0023	0.0113	87,797	53.70
25	0.0020	0.0101	86,804	49.29
30	0.0024	0.0118	85,925	44.77
35	0.0026	0.0131	84,910	40.27
40	0.0037	0.0181	83,797	35.77
45	0.0054	0.0267	82,280	31.39
50	0.0081	0.0398	80,079	27.18
55	0.0116	0.0565	76,893	23.20
60	0.0178	0.0852	72,545	19.44
65	0.0260	0.1220	66,361	16.02
70	0.0405	0.1832	58,266	12.91
75	0.0598	0.2579	47,594	10.27
80	0.0883	0.3566	35,318	8.02
85	0.1617	1	22,725	6.19



## WHO LIFE TABLE FOR 1999: MOROCCO

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0570	0.0542	100,000	65.16
1	0.0039	0.0155	94,577	67.89
5	0.0010	0.0048	93,108	64.94
10	0.0008	0.0039	92,661	60.24
15	0.0009	0.0046	92,300	55.47
20	0.0010	0.0051	91,879	50.71
25	0.0013	0.0067	91,412	45.95
30	0.0018	0.0087	90,803	41.25
35	0.0026	0.0128	90,011	36.59
40	0.0034	0.0170	88,860	32.03
45	0.0052	0.0255	87,348	27.54
50	0.0090	0.0441	85,118	23.20
55	0.0137	0.0662	81,367	19.15
60	0.0241	0.1138	75,984	15.33
65	0.0378	0.1725	67,334	11.98
70	0.0689	0.2939	55,719	8.95
75	0.1107	0.4334	39,346	6.64
80	0.1771	0.6139	22,294	4.80
85	0.2884	1	8,608	3.47

### Females

0	0.0464	0.0446	100,000	66.75
1	0.0044	0.0173	95,542	68.86
5	0.0008	0.0041	93,893	66.04
10	0.0007	0.0033	93,506	61.31
15	0.0008	0.0040	93,198	56.50
20	0.0009	0.0045	92,824	51.72
25	0.0012	0.0060	92,403	46.94
30	0.0013	0.0066	91,848	42.21
35	0.0020	0.0102	91,238	37.48
40	0.0024	0.0120	90,310	32.84
45	0.0040	0.0196	89,229	28.20
50	0.0071	0.0348	87,479	23.72
55	0.0102	0.0496	84,434	19.48
60	0.0216	0.1025	80,246	15.37
65	0.0353	0.1621	72,017	11.84
70	0.0675	0.2889	60,346	8.64
75	0.1202	0.4621	42,910	6.14
80	0.2051	0.6780	23,082	4.27
85	0.3337	1	7,433	3.00

## WHO LIFE TABLE FOR 1999: MOZAMBIQUE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1212	0.1117	100,000	41.81
1	0.0249	0.0940	88,832	46.03
5	0.0064	0.0315	80,478	46.64
10	0.0041	0.0205	77,943	43.07
15	0.0059	0.0290	76,349	38.92
20	0.0093	0.0454	74,134	35.01
25	0.0153	0.0736	70,767	31.56
30	0.0211	0.1003	65,556	28.87
35	0.0233	0.1099	58,978	26.81
40	0.0241	0.1135	52,496	24.81
45	0.0236	0.1114	46,539	22.66
50	0.0242	0.1142	41,353	20.19
55	0.0266	0.1248	36,630	17.47
60	0.0333	0.1539	32,059	14.61
65	0.0483	0.2149	27,127	11.81
70	0.0709	0.2992	21,297	9.37
75	0.1021	0.4017	14,925	7.35
80	0.1439	0.5181	8,929	5.70
85	0.2292	1	4,303	4.36

### Females

0	0.1228	0.1131	100,000	43.99
1	0.0225	0.0854	88,689	48.57
5	0.0059	0.0291	81,113	48.95
10	0.0038	0.0189	78,754	45.35
15	0.0062	0.0304	77,269	41.17
20	0.0117	0.0569	74,922	37.38
25	0.0182	0.0869	70,658	34.49
30	0.0215	0.1022	64,519	32.53
35	0.0197	0.0937	57,926	30.95
40	0.0179	0.0859	52,497	28.89
45	0.0156	0.0749	47,989	26.37
50	0.0156	0.0749	44,396	23.30
55	0.0179	0.0859	41,071	19.98
60	0.0246	0.1157	37,545	16.62
65	0.0361	0.1654	33,201	13.47
70	0.0544	0.2382	27,710	10.66
75	0.0811	0.3337	21,109	8.24
80	0.1221	0.4593	14,064	6.19
85	0.2226	1	7,605	4.49

## WHO LIFE TABLE FOR 1999: MYANMAR

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1195	0.1079	100,000	58.17
1	0.0097	0.0379	89,213	64.20
5	0.0024	0.0121	85,832	62.66
10	0.0015	0.0072	84,793	58.40
15	0.0018	0.0087	84,180	53.81
20	0.0024	0.0121	83,446	49.26
25	0.0029	0.0145	82,436	44.83
30	0.0035	0.0171	81,240	40.45
35	0.0041	0.0204	79,850	36.11
40	0.0060	0.0295	78,224	31.81
45	0.0084	0.0411	75,916	27.70
50	0.0124	0.0603	72,799	23.78
55	0.0168	0.0805	68,406	20.15
60	0.0269	0.1259	62,898	16.69
65	0.0370	0.1694	54,979	13.74
70	0.0543	0.2390	45,665	11.03
75	0.0798	0.3328	34,750	8.71
80	0.1147	0.4456	23,186	6.81
85	0.1896	1	12,854	5.27

### Females

0	0.0896	0.0829	100,000	59.43
1	0.0120	0.0466	91,710	63.79
5	0.0032	0.0157	87,433	62.83
10	0.0016	0.0081	86,059	58.80
15	0.0024	0.0121	85,364	54.25
20	0.0033	0.0163	84,329	49.89
25	0.0031	0.0155	82,957	45.67
30	0.0033	0.0164	81,672	41.35
35	0.0035	0.0173	80,330	37.00
40	0.0046	0.0228	78,943	32.61
45	0.0063	0.0312	77,145	28.31
50	0.0107	0.0522	74,735	24.14
55	0.0151	0.0728	70,838	20.33
60	0.0255	0.1198	65,681	16.73
65	0.0363	0.1663	57,813	13.67
70	0.0533	0.2350	48,198	10.90
75	0.0807	0.3359	36,871	8.48
80	0.1215	0.4659	24,488	6.50
85	0.2006	1	13,078	4.99

## WHO LIFE TABLE FOR 1999: NAMIBIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0609	0.0584	100,000	43.25
1	0.0150	0.0577	94,157	44.91
5	0.0035	0.0174	88,721	43.57
10	0.0024	0.0118	87,180	39.29
15	0.0043	0.0210	86,150	34.73
20	0.0092	0.0450	84,337	30.43
25	0.0209	0.0992	80,540	26.74
30	0.0338	0.1557	72,553	24.41
35	0.0375	0.1712	61,253	23.46
40	0.0355	0.1632	50,765	22.79
45	0.0333	0.1535	42,478	21.74
50	0.0291	0.1358	35,957	20.23
55	0.0252	0.1185	31,076	18.02
60	0.0291	0.1357	27,395	15.10
65	0.0423	0.1908	23,676	12.08
70	0.0669	0.2851	19,159	9.35
75	0.1023	0.4023	13,698	7.13
80	0.1564	0.5499	8,187	5.34
85	0.2468	1	3,685	4.05

### Females

0	0.0589	0.0565	100,000	42.97
1	0.0152	0.0586	94,346	44.53
5	0.0035	0.0173	88,812	43.20
10	0.0023	0.0116	87,276	38.92
15	0.0065	0.0318	86,261	34.35
20	0.0176	0.0844	83,519	30.39
25	0.0317	0.1467	76,473	27.96
30	0.0385	0.1756	65,256	27.34
35	0.0324	0.1497	53,796	27.63
40	0.0270	0.1263	45,741	27.06
45	0.0205	0.0974	39,965	25.61
50	0.0177	0.0849	36,074	23.10
55	0.0173	0.0829	33,013	20.01
60	0.0218	0.1032	30,276	16.59
65	0.0332	0.1529	27,150	13.22
70	0.0554	0.2420	22,999	10.16
75	0.0902	0.3641	17,434	7.64
80	0.1406	0.5095	11,086	5.67
85	0.2403	1	5,437	4.16

## WHO LIFE TABLE FOR 1999: NAURU

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0104	0.0103	100,000	56.39
1	0.0023	0.0092	98,967	55.98
5	0.0010	0.0050	98,053	52.49
10	0.0009	0.0044	97,561	47.74
15	0.0016	0.0079	97,132	42.94
20	0.0023	0.0116	96,365	38.26
25	0.0026	0.0129	95,243	33.68
30	0.0040	0.0199	94,018	29.09
35	0.0057	0.0280	92,146	24.63
40	0.0093	0.0452	89,563	20.27
45	0.0174	0.0834	85,511	16.11
50	0.0343	0.1581	78,381	12.34
55	0.0652	0.2801	65,993	9.19
60	0.1155	0.4482	47,506	6.80
65	0.1675	0.5904	26,215	5.29
70	0.2180	0.7055	10,737	4.31
75	0.2652	0.7973	3,162	3.63
80	0.3178	0.8854	641	3.08
85	0.3844	1	73	2.60

### Females

0	0.0082	0.0081	100,000	63.25
1	0.0019	0.0074	99,186	62.77
5	0.0005	0.0026	98,452	59.23
10	0.0005	0.0023	98,193	54.38
15	0.0009	0.0045	97,967	49.50
20	0.0013	0.0067	97,528	44.71
25	0.0014	0.0069	96,873	39.99
30	0.0019	0.0093	96,201	35.25
35	0.0024	0.0119	95,310	30.56
40	0.0039	0.0193	94,180	25.90
45	0.0071	0.0351	92,363	21.36
50	0.0140	0.0675	89,123	17.04
55	0.0272	0.1274	83,106	13.10
60	0.0567	0.2482	72,520	9.64
65	0.1039	0.4125	54,521	7.00
70	0.1708	0.5985	32,033	5.16
75	0.2268	0.7237	12,860	4.13
80	0.2806	0.8246	3,553	3.40
85	0.3832	1	623	2.61

## WHO LIFE TABLE FOR 1999: NEPAL

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0916	0.0847	100,000	57.08
1	0.0097	0.0380	91,535	61.35
5	0.0025	0.0127	88,060	59.70
10	0.0015	0.0077	86,946	55.44
15	0.0019	0.0094	86,279	50.85
20	0.0026	0.0131	85,471	46.30
25	0.0032	0.0160	84,348	41.89
30	0.0039	0.0192	82,996	37.53
35	0.0047	0.0233	81,401	33.21
40	0.0070	0.0345	79,503	28.95
45	0.0101	0.0492	76,761	24.89
50	0.0155	0.0745	72,982	21.05
55	0.0215	0.1022	67,548	17.54
60	0.0353	0.1620	60,642	14.26
65	0.0497	0.2212	50,815	11.53
70	0.0735	0.3106	39,576	9.09
75	0.1081	0.4255	27,283	7.07
80	0.1551	0.5589	15,673	5.45
85	0.2392	1	6,913	4.18

### Females

0	0.0676	0.0637	100,000	57.73
1	0.0119	0.0464	93,625	60.66
5	0.0034	0.0166	89,279	59.53
10	0.0017	0.0087	87,796	55.49
15	0.0027	0.0132	87,032	50.96
20	0.0037	0.0181	85,880	46.61
25	0.0035	0.0176	84,323	42.42
30	0.0038	0.0189	82,842	38.14
35	0.0041	0.0203	81,272	33.83
40	0.0055	0.0272	79,626	29.47
45	0.0077	0.0380	77,464	25.23
50	0.0134	0.0649	74,521	21.12
55	0.0195	0.0931	69,681	17.42
60	0.0333	0.1538	63,192	13.95
65	0.0486	0.2167	53,473	11.03
70	0.0797	0.3324	41,886	8.39
75	0.1228	0.4699	27,965	6.32
80	0.1853	0.6332	14,824	4.71
85	0.2843	1	5,437	3.52

## WHO LIFE TABLE FOR 1999: NETHERLANDS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0058	0.0057	100,000	75.03
1	0.0003	0.0013	99,425	74.46
5	0.0002	0.0010	99,297	70.55
10	0.0002	0.0009	99,202	65.62
15	0.0005	0.0023	99,114	60.67
20	0.0007	0.0034	98,883	55.81
25	0.0007	0.0035	98,550	50.99
30	0.0009	0.0043	98,206	46.16
35	0.0012	0.0060	97,789	41.35
40	0.0018	0.0091	97,205	36.58
45	0.0029	0.0143	96,322	31.89
50	0.0048	0.0240	94,944	27.32
55	0.0083	0.0406	92,670	22.93
60	0.0145	0.0699	88,909	18.79
65	0.0252	0.1186	82,695	15.02
70	0.0423	0.1911	72,888	11.70
75	0.0689	0.2939	58,961	8.87
80	0.1146	0.4453	41,634	6.52
85	0.2103	1	23,094	4.76

### Females

0	0.0048	0.0047	100,000	81.09
1	0.0003	0.0010	99,527	80.48
5	0.0001	0.0005	99,423	76.56
10	0.0001	0.0006	99,371	71.60
15	0.0002	0.0012	99,310	66.64
20	0.0003	0.0015	99,193	61.71
25	0.0004	0.0019	99,044	56.80
30	0.0005	0.0025	98,853	51.91
35	0.0008	0.0039	98,604	47.03
40	0.0014	0.0067	98,224	42.21
45	0.0021	0.0107	97,563	37.47
50	0.0031	0.0153	96,521	32.85
55	0.0048	0.0239	95,039	28.33
60	0.0075	0.0367	92,764	23.96
65	0.0119	0.0578	89,361	19.78
70	0.0198	0.0944	84,194	15.84
75	0.0343	0.1581	76,244	12.23
80	0.0655	0.2813	64,186	9.05
85	0.1511	1	46,129	6.62

## WHO LIFE TABLE FOR 1999: NEW ZEALAND

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0077	0.0076	100,000	73.95
1	0.0004	0.0018	99,239	73.52
5	0.0002	0.0010	99,065	69.64
10	0.0002	0.0012	98,967	64.71
15	0.0012	0.0062	98,846	59.78
20	0.0014	0.0072	98,237	55.14
25	0.0015	0.0074	97,532	50.52
30	0.0014	0.0071	96,815	45.88
35	0.0015	0.0076	96,131	41.18
40	0.0017	0.0086	95,404	36.48
45	0.0032	0.0159	94,584	31.77
50	0.0054	0.0268	93,078	27.25
55	0.0092	0.0448	90,583	22.93
60	0.0164	0.0786	86,525	18.89
65	0.0256	0.1203	79,725	15.28
70	0.0415	0.1880	70,134	12.03
75	0.0660	0.2832	56,950	9.24
80	0.1076	0.4240	40,821	6.90
85	0.1944	1	23,512	5.14

### Females

0	0.0058	0.0058	100,000	79.35
1	0.0003	0.0014	99,422	78.81
5	0.0001	0.0007	99,284	74.92
10	0.0002	0.0012	99,209	69.97
15	0.0006	0.0029	99,090	65.05
20	0.0005	0.0023	98,798	60.24
25	0.0005	0.0025	98,573	55.37
30	0.0006	0.0032	98,326	50.50
35	0.0008	0.0038	98,009	45.66
40	0.0011	0.0052	97,633	40.82
45	0.0024	0.0120	97,121	36.02
50	0.0035	0.0174	95,960	31.43
55	0.0055	0.0270	94,286	26.94
60	0.0099	0.0481	91,741	22.62
65	0.0152	0.0732	87,328	18.64
70	0.0244	0.1150	80,932	14.91
75	0.0414	0.1874	71,626	11.53
80	0.0750	0.3159	58,203	8.61
85	0.1556	1	39,818	6.43



## WHO LIFE TABLE FOR 1999: NICARAGUA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0336	0.0326	100,000	64.59
1	0.0045	0.0178	96,738	65.76
5	0.0011	0.0055	95,014	62.93
10	0.0008	0.0038	94,495	58.26
15	0.0013	0.0063	94,139	53.47
20	0.0020	0.0101	93,544	48.80
25	0.0025	0.0122	92,594	44.27
30	0.0030	0.0149	91,464	39.79
35	0.0041	0.0200	90,102	35.35
40	0.0055	0.0271	88,296	31.02
45	0.0077	0.0378	85,903	26.82
50	0.0115	0.0557	82,657	22.77
55	0.0171	0.0819	78,050	18.97
60	0.0266	0.1245	71,656	15.44
65	0.0411	0.1863	62,733	12.28
70	0.0662	0.2839	51,048	9.52
75	0.1001	0.4003	36,556	7.30
80	0.1507	0.5472	21,921	5.50
85	0.2423	1	9,925	4.13

### Females

0	0.0268	0.0262	100,000	68.61
1	0.0047	0.0186	97,383	69.45
5	0.0010	0.0052	95,576	66.73
10	0.0006	0.0030	95,083	62.06
15	0.0009	0.0043	94,797	57.24
20	0.0013	0.0063	94,385	52.48
25	0.0016	0.0081	93,786	47.80
30	0.0021	0.0104	93,024	43.17
35	0.0029	0.0142	92,052	38.60
40	0.0036	0.0181	90,741	34.12
45	0.0049	0.0244	89,101	29.70
50	0.0072	0.0354	86,925	25.39
55	0.0109	0.0532	83,846	21.23
60	0.0183	0.0873	79,386	17.28
65	0.0297	0.1383	72,454	13.69
70	0.0524	0.2318	62,435	10.49
75	0.0847	0.3496	47,962	7.90
80	0.1366	0.5090	31,195	5.80
85	0.2370	1	15,316	4.22

## WHO LIFE TABLE FOR 1999: NIGER

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.2651	0.2236	100,000	37.12
1	0.0376	0.1378	77,638	46.72
5	0.0091	0.0446	66,940	49.93
10	0.0058	0.0285	63,953	47.15
15	0.0074	0.0364	62,132	43.46
20	0.0096	0.0469	59,870	40.00
25	0.0116	0.0565	57,059	36.85
30	0.0121	0.0588	53,837	33.91
35	0.0128	0.0620	50,672	30.87
40	0.0151	0.0726	47,529	27.74
45	0.0158	0.0761	44,079	24.72
50	0.0189	0.0902	40,726	21.55
55	0.0239	0.1128	37,051	18.44
60	0.0318	0.1475	32,870	15.47
65	0.0456	0.2041	28,023	12.71
70	0.0632	0.2715	22,303	10.34
75	0.0860	0.3500	16,247	8.30
80	0.1182	0.4479	10,560	6.50
85	0.2036	1	5,830	4.91

### Females

0	0.3065	0.2524	100,000	40.56
1	0.0311	0.1159	74,761	53.16
5	0.0076	0.0375	66,097	55.92
10	0.0047	0.0234	63,621	52.99
15	0.0060	0.0298	62,130	49.21
20	0.0073	0.0357	60,281	45.64
25	0.0089	0.0437	58,130	42.24
30	0.0095	0.0465	55,587	39.05
35	0.0102	0.0498	53,005	35.83
40	0.0104	0.0508	50,366	32.58
45	0.0098	0.0480	47,810	29.19
50	0.0123	0.0598	45,514	25.53
55	0.0151	0.0729	42,792	22.00
60	0.0207	0.0982	39,673	18.53
65	0.0296	0.1378	35,777	15.28
70	0.0441	0.1980	30,846	12.33
75	0.0614	0.2642	24,738	9.78
80	0.0935	0.3731	18,204	7.45
85	0.1814	1	11,412	5.51

## WHO LIFE TABLE FOR 1999: NIGERIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1048	0.0976	100,000	46.79
1	0.0220	0.0835	90,235	50.83
5	0.0056	0.0275	82,701	51.31
10	0.0035	0.0175	80,429	47.69
15	0.0050	0.0245	79,024	43.49
20	0.0075	0.0370	77,089	39.52
25	0.0105	0.0511	74,235	35.94
30	0.0137	0.0663	70,442	32.75
35	0.0154	0.0743	65,774	29.89
40	0.0166	0.0798	60,885	27.09
45	0.0179	0.0856	56,026	24.22
50	0.0187	0.0892	51,231	21.26
55	0.0226	0.1071	46,663	18.09
60	0.0310	0.1438	41,665	14.96
65	0.0445	0.2000	35,672	12.06
70	0.0689	0.2923	28,539	9.46
75	0.0996	0.3940	20,196	7.38
80	0.1414	0.5115	12,239	5.65
85	0.2410	1	5,978	4.15

### Females

0	0.1067	0.0993	100,000	48.15
1	0.0206	0.0784	90,070	52.42
5	0.0057	0.0282	83,010	52.74
10	0.0036	0.0179	80,669	49.20
15	0.0052	0.0256	79,222	45.05
20	0.0084	0.0414	77,198	41.17
25	0.0121	0.0589	74,004	37.84
30	0.0141	0.0679	69,643	35.05
35	0.0137	0.0661	64,912	32.43
40	0.0134	0.0647	60,621	29.54
45	0.0129	0.0624	56,701	26.41
50	0.0140	0.0676	53,163	23.00
55	0.0183	0.0873	49,570	19.49
60	0.0252	0.1186	45,242	16.12
65	0.0381	0.1736	39,874	12.95
70	0.0592	0.2567	32,953	10.15
75	0.0898	0.3627	24,495	7.83
80	0.1318	0.4860	15,611	5.95
85	0.2272	1	8,024	4.40

## WHO LIFE TABLE FOR 1999: NIUE

### Males

x	nMx	nqx	lx	ex
0	0.0285	0.0278	100,000	68.34
1	0.0015	0.0059	97,224	69.29
5	0.0008	0.0039	96,653	65.68
10	0.0006	0.0032	96,276	60.93
15	0.0012	0.0058	95,969	56.12
20	0.0016	0.0081	95,414	51.43
25	0.0017	0.0082	94,639	46.83
30	0.0019	0.0093	93,862	42.20
35	0.0024	0.0119	92,993	37.57
40	0.0035	0.0173	91,888	32.99
45	0.0056	0.0274	90,294	28.53
50	0.0088	0.0432	87,818	24.26
55	0.0142	0.0687	84,021	20.25
60	0.0224	0.1060	78,248	16.56
65	0.0353	0.1621	69,956	13.22
70	0.0566	0.2467	58,616	10.31
75	0.0872	0.3543	44,156	7.90
80	0.1331	0.4897	28,512	5.94
85	0.2257	1	14,550	4.43

### Females

0	0.0249	0.0244	100,000	71.01
1	0.0015	0.0060	97,564	71.78
5	0.0006	0.0032	96,982	68.20
10	0.0005	0.0026	96,667	63.42
15	0.0008	0.0042	96,412	58.58
20	0.0012	0.0059	96,008	53.81
25	0.0015	0.0072	95,438	49.12
30	0.0017	0.0087	94,749	44.46
35	0.0023	0.0113	93,923	39.83
40	0.0031	0.0154	92,863	35.25
45	0.0046	0.0225	91,430	30.77
50	0.0068	0.0334	89,369	26.42
55	0.0102	0.0497	86,386	22.24
60	0.0162	0.0778	82,090	18.28
65	0.0269	0.1257	75,707	14.61
70	0.0458	0.2048	66,189	11.36
75	0.0729	0.3055	52,634	8.66
80	0.1162	0.4421	36,555	6.44
85	0.2118	1	20,393	4.72

## WHO LIFE TABLE FOR 1999: NORWAY

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0049	0.0049	100,000	75.10
1	0.0002	0.0010	99,514	74.46
5	0.0002	0.0008	99,419	70.53
10	0.0002	0.0011	99,340	65.59
15	0.0008	0.0038	99,229	60.66
20	0.0009	0.0044	98,847	55.88
25	0.0009	0.0043	98,411	51.12
30	0.0011	0.0054	97,992	46.33
35	0.0014	0.0067	97,461	41.57
40	0.0018	0.0089	96,805	36.83
45	0.0033	0.0164	95,944	32.14
50	0.0048	0.0237	94,374	27.63
55	0.0083	0.0407	92,133	23.24
60	0.0139	0.0671	88,383	19.12
65	0.0245	0.1154	82,456	15.32
70	0.0393	0.1787	72,941	11.99
75	0.0671	0.2873	59,905	9.06
80	0.1101	0.4318	42,693	6.70
85	0.2046	1	24,260	4.89

### Females

0	0.0041	0.0041	100,000	82.13
1	0.0003	0.0012	99,590	81.47
5	0.0002	0.0008	99,475	77.56
10	0.0001	0.0005	99,400	72.62
15	0.0003	0.0017	99,346	67.66
20	0.0003	0.0016	99,176	62.77
25	0.0003	0.0015	99,015	57.87
30	0.0005	0.0027	98,870	52.95
35	0.0007	0.0036	98,599	48.09
40	0.0012	0.0060	98,242	43.25
45	0.0020	0.0097	97,653	38.50
50	0.0027	0.0135	96,703	33.85
55	0.0043	0.0215	95,402	29.28
60	0.0070	0.0344	93,352	24.87
65	0.0111	0.0541	90,143	20.67
70	0.0183	0.0874	85,266	16.71
75	0.0310	0.1438	77,813	13.07
80	0.0557	0.2445	66,626	9.84
85	0.1386	1	50,338	7.21

## WHO LIFE TABLE FOR 1999: OMAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0151	0.0149	100,000	70.20
1	0.0008	0.0030	98,514	70.25
5	0.0005	0.0025	98,215	66.46
10	0.0004	0.0021	97,974	61.62
15	0.0008	0.0038	97,766	56.75
20	0.0008	0.0039	97,393	51.96
25	0.0007	0.0037	97,015	47.15
30	0.0009	0.0045	96,660	42.31
35	0.0012	0.0060	96,224	37.49
40	0.0018	0.0089	95,647	32.70
45	0.0036	0.0176	94,798	27.97
50	0.0073	0.0359	93,126	23.43
55	0.0120	0.0582	89,783	19.21
60	0.0241	0.1139	84,559	15.24
65	0.0375	0.1714	74,930	11.88
70	0.0673	0.2879	62,085	8.82
75	0.1159	0.4493	44,208	6.38
80	0.1908	0.6458	24,345	4.54
85	0.3066	1	8,622	3.26

### Females

0	0.0151	0.0149	100,000	73.58
1	0.0007	0.0028	98,510	73.69
5	0.0003	0.0016	98,239	69.89
10	0.0003	0.0013	98,079	65.00
15	0.0003	0.0014	97,949	60.09
20	0.0003	0.0014	97,815	55.17
25	0.0005	0.0024	97,678	50.24
30	0.0005	0.0024	97,448	45.35
35	0.0009	0.0046	97,215	40.45
40	0.0013	0.0067	96,772	35.63
45	0.0025	0.0126	96,127	30.85
50	0.0053	0.0260	94,917	26.21
55	0.0082	0.0401	92,451	21.84
60	0.0168	0.0807	88,745	17.65
65	0.0251	0.1179	81,587	13.98
70	0.0477	0.2133	71,966	10.52
75	0.0851	0.3508	56,619	7.69
80	0.1457	0.5341	36,759	5.49
85	0.2548	1	17,127	3.92

## WHO LIFE TABLE FOR 1999: PAKISTAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0884	0.0819	100,000	62.84
1	0.0051	0.0200	91,813	67.44
5	0.0012	0.0061	89,978	64.78
10	0.0010	0.0049	89,433	60.16
15	0.0011	0.0056	88,999	55.44
20	0.0013	0.0062	88,496	50.74
25	0.0016	0.0081	87,943	46.04
30	0.0021	0.0105	87,231	41.40
35	0.0030	0.0151	86,317	36.81
40	0.0040	0.0197	85,014	32.34
45	0.0059	0.0288	83,339	27.94
50	0.0099	0.0481	80,936	23.69
55	0.0144	0.0693	77,043	19.76
60	0.0241	0.1135	71,706	16.05
65	0.0357	0.1637	63,566	12.78
70	0.0619	0.2679	53,159	9.80
75	0.0951	0.3842	38,916	7.47
80	0.1469	0.5372	23,964	5.56
85	0.2427	1	11,090	4.12

### Females

0	0.0824	0.0767	100,000	65.03
1	0.0057	0.0226	92,329	69.43
5	0.0010	0.0052	90,241	66.99
10	0.0008	0.0041	89,773	62.33
15	0.0010	0.0049	89,406	57.58
20	0.0011	0.0055	88,965	52.85
25	0.0014	0.0072	88,477	48.13
30	0.0016	0.0078	87,843	43.46
35	0.0023	0.0117	87,159	38.78
40	0.0027	0.0134	86,142	34.21
45	0.0043	0.0213	84,988	29.64
50	0.0073	0.0361	83,181	25.23
55	0.0100	0.0486	80,182	21.08
60	0.0197	0.0938	76,282	17.03
65	0.0296	0.1377	69,127	13.53
70	0.0526	0.2325	59,609	10.29
75	0.0881	0.3611	45,747	7.65
80	0.1440	0.5293	29,229	5.56
85	0.2498	1	13,757	4.00

## WHO LIFE TABLE FOR 1999: PALAU

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0150	0.0148	100,000	64.49
1	0.0020	0.0080	98,522	64.45
5	0.0008	0.0038	97,736	60.96
10	0.0006	0.0031	97,366	56.18
15	0.0011	0.0053	97,062	51.35
20	0.0014	0.0071	96,552	46.61
25	0.0015	0.0073	95,863	41.92
30	0.0021	0.0104	95,164	37.21
35	0.0027	0.0135	94,170	32.58
40	0.0040	0.0200	92,897	27.99
45	0.0069	0.0337	91,038	23.51
50	0.0122	0.0594	87,968	19.25
55	0.0220	0.1041	82,743	15.30
60	0.0409	0.1854	74,128	11.79
65	0.0703	0.2991	60,384	8.91
70	0.1157	0.4487	42,322	6.64
75	0.1730	0.6039	23,331	5.01
80	0.2408	0.7516	9,242	3.83
85	0.3488	1	2,296	2.87

### Females

0	0.0099	0.0098	100,000	69.65
1	0.0015	0.0061	99,022	69.34
5	0.0004	0.0020	98,416	65.75
10	0.0003	0.0017	98,221	60.88
15	0.0006	0.0031	98,057	55.98
20	0.0009	0.0045	97,750	51.15
25	0.0009	0.0044	97,314	46.36
30	0.0011	0.0056	96,890	41.56
35	0.0014	0.0068	96,352	36.77
40	0.0021	0.0104	95,701	32.01
45	0.0036	0.0176	94,708	27.32
50	0.0064	0.0314	93,038	22.76
55	0.0114	0.0556	90,113	18.42
60	0.0227	0.1073	85,104	14.36
65	0.0434	0.1959	75,969	10.78
70	0.0851	0.3509	61,083	7.80
75	0.1424	0.5250	39,650	5.67
80	0.2118	0.6924	18,835	4.16
85	0.3436	1	5,794	2.91



## WHO LIFE TABLE FOR 1999: PANAMA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0302	0.0294	100,000	72.58
1	0.0013	0.0050	97,056	73.78
5	0.0004	0.0022	96,567	70.15
10	0.0005	0.0023	96,354	65.30
15	0.0015	0.0076	96,129	60.44
20	0.0023	0.0112	95,399	55.89
25	0.0026	0.0128	94,327	51.49
30	0.0026	0.0131	93,122	47.13
35	0.0030	0.0151	91,900	42.72
40	0.0033	0.0165	90,513	38.34
45	0.0047	0.0231	89,023	33.94
50	0.0068	0.0332	86,965	29.68
55	0.0088	0.0428	84,073	25.61
60	0.0130	0.0628	80,471	21.65
65	0.0173	0.0828	75,422	17.93
70	0.0304	0.1408	69,174	14.33
75	0.0409	0.1844	59,437	11.28
80	0.0679	0.2869	48,478	8.30
85	0.1749	1	34,568	5.72

### Females

0	0.0259	0.0253	100,000	75.73
1	0.0015	0.0060	97,467	76.70
5	0.0004	0.0020	96,887	73.15
10	0.0004	0.0021	96,693	68.29
15	0.0007	0.0035	96,492	63.43
20	0.0009	0.0043	96,154	58.64
25	0.0009	0.0047	95,744	53.88
30	0.0012	0.0059	95,297	49.12
35	0.0018	0.0088	94,731	44.40
40	0.0024	0.0121	93,901	39.77
45	0.0036	0.0179	92,763	35.23
50	0.0055	0.0270	91,107	30.83
55	0.0078	0.0382	88,645	26.61
60	0.0125	0.0605	85,255	22.57
65	0.0156	0.0750	80,097	18.86
70	0.0249	0.1171	74,088	15.19
75	0.0353	0.1613	65,413	11.89
80	0.0667	0.2825	54,860	8.73
85	0.1598	1	39,365	6.26

## WHO LIFE TABLE FOR 1999: PAPUA NEW GUINEA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1095	0.0997	100,000	53.16
1	0.0082	0.0321	90,033	58.03
5	0.0028	0.0137	87,143	55.90
10	0.0022	0.0107	85,948	51.65
15	0.0034	0.0170	85,027	47.18
20	0.0043	0.0214	83,581	42.95
25	0.0041	0.0204	81,789	38.84
30	0.0055	0.0270	80,124	34.59
35	0.0065	0.0319	77,964	30.48
40	0.0087	0.0427	75,473	26.41
45	0.0130	0.0631	72,251	22.47
50	0.0198	0.0942	67,688	18.82
55	0.0291	0.1356	61,314	15.52
60	0.0460	0.2063	52,999	12.56
65	0.0642	0.2764	42,067	10.17
70	0.0903	0.3684	30,438	8.10
75	0.1274	0.4831	19,223	6.37
80	0.1758	0.6106	9,937	4.99
85	0.2573	1	3,870	3.89

### Females

0	0.0826	0.0769	100,000	56.83
1	0.0082	0.0320	92,313	60.55
5	0.0019	0.0095	89,358	58.50
10	0.0016	0.0078	88,507	54.04
15	0.0028	0.0140	87,818	49.45
20	0.0038	0.0187	86,592	45.11
25	0.0035	0.0173	84,969	40.92
30	0.0042	0.0208	83,498	36.60
35	0.0048	0.0238	81,761	32.33
40	0.0069	0.0339	79,817	28.05
45	0.0106	0.0518	77,113	23.95
50	0.0167	0.0801	73,116	20.12
55	0.0251	0.1180	67,257	16.66
60	0.0368	0.1687	59,320	13.55
65	0.0545	0.2397	49,315	10.79
70	0.0822	0.3410	37,496	8.41
75	0.1221	0.4678	24,711	6.46
80	0.1769	0.6132	13,151	4.94
85	0.2621	1	5,087	3.82

## WHO LIFE TABLE FOR 1999: PARAGUAY

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0312	0.0304	100,000	69.51
1	0.0015	0.0059	96,962	70.69
5	0.0005	0.0026	96,393	67.10
10	0.0006	0.0029	96,145	62.26
15	0.0018	0.0088	95,866	57.44
20	0.0029	0.0142	95,027	52.92
25	0.0029	0.0144	93,680	48.65
30	0.0032	0.0159	92,335	44.32
35	0.0037	0.0182	90,866	40.00
40	0.0043	0.0213	89,215	35.69
45	0.0055	0.0271	87,316	31.41
50	0.0084	0.0410	84,945	27.22
55	0.0121	0.0587	81,464	23.27
60	0.0178	0.0853	76,683	19.57
65	0.0236	0.1111	70,143	16.16
70	0.0362	0.1655	62,349	12.88
75	0.0532	0.2332	52,033	9.95
80	0.0859	0.3488	39,898	7.26
85	0.2031	1	25,983	4.92

### Females

0	0.0276	0.0270	100,000	74.00
1	0.0015	0.0060	97,304	75.05
5	0.0004	0.0020	96,716	71.49
10	0.0004	0.0022	96,520	66.63
15	0.0007	0.0037	96,313	61.77
20	0.0009	0.0045	95,959	56.99
25	0.0011	0.0053	95,525	52.24
30	0.0014	0.0069	95,019	47.50
35	0.0019	0.0096	94,362	42.82
40	0.0028	0.0141	93,457	38.21
45	0.0041	0.0203	92,141	33.72
50	0.0058	0.0287	90,272	29.36
55	0.0093	0.0457	87,682	25.16
60	0.0130	0.0628	83,678	21.24
65	0.0198	0.0944	78,426	17.50
70	0.0269	0.1256	71,020	14.06
75	0.0436	0.1953	62,099	10.74
80	0.0742	0.3090	49,969	7.78
85	0.1914	1	34,529	5.23

## WHO LIFE TABLE FOR 1999: PERU

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0357	0.0346	100,000	65.42
1	0.0045	0.0178	96,538	66.76
5	0.0011	0.0054	94,822	63.94
10	0.0007	0.0037	94,312	59.28
15	0.0012	0.0062	93,965	54.49
20	0.0020	0.0098	93,384	49.81
25	0.0024	0.0118	92,464	45.28
30	0.0029	0.0142	91,377	40.79
35	0.0038	0.0190	90,075	36.34
40	0.0052	0.0255	88,361	32.00
45	0.0072	0.0353	86,108	27.77
50	0.0106	0.0515	83,072	23.69
55	0.0156	0.0751	78,791	19.84
60	0.0241	0.1134	72,874	16.25
65	0.0370	0.1694	64,607	13.01
70	0.0597	0.2597	53,663	10.16
75	0.0900	0.3672	39,725	7.84
80	0.1355	0.5060	25,137	5.94
85	0.2236	1	12,418	4.47

### Females

0	0.0273	0.0267	100,000	68.85
1	0.0047	0.0185	97,335	69.73
5	0.0010	0.0051	95,535	67.02
10	0.0006	0.0030	95,047	62.35
15	0.0009	0.0043	94,764	57.53
20	0.0013	0.0063	94,356	52.77
25	0.0016	0.0080	93,765	48.08
30	0.0021	0.0103	93,014	43.45
35	0.0028	0.0140	92,058	38.88
40	0.0036	0.0177	90,771	34.39
45	0.0048	0.0238	89,165	29.97
50	0.0070	0.0345	87,039	25.64
55	0.0106	0.0516	84,039	21.46
60	0.0178	0.0853	79,700	17.49
65	0.0289	0.1347	72,905	13.89
70	0.0510	0.2260	63,082	10.67
75	0.0822	0.3408	48,825	8.05
80	0.1324	0.4974	32,184	5.92
85	0.2322	1	16,176	4.31

## WHO LIFE TABLE FOR 1999: PHILIPPINES

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0360	0.0349	100,000	64.09
1	0.0033	0.0132	96,509	65.41
5	0.0012	0.0058	95,232	62.26
10	0.0009	0.0046	94,676	57.62
15	0.0015	0.0075	94,235	52.87
20	0.0020	0.0098	93,525	48.26
25	0.0019	0.0095	92,612	43.71
30	0.0026	0.0130	91,730	39.10
35	0.0032	0.0159	90,538	34.59
40	0.0045	0.0222	89,095	30.10
45	0.0071	0.0347	87,118	25.73
50	0.0115	0.0558	84,094	21.57
55	0.0185	0.0883	79,405	17.69
60	0.0308	0.1428	72,396	14.16
65	0.0486	0.2165	62,054	11.11
70	0.0773	0.3239	48,618	8.49
75	0.1212	0.4652	32,872	6.35
80	0.1846	0.6316	17,581	4.71
85	0.2867	1	6,477	3.49

### Females

0	0.0300	0.0292	100,000	69.27
1	0.0030	0.0119	97,079	70.35
5	0.0007	0.0035	95,924	67.17
10	0.0006	0.0029	95,585	62.40
15	0.0010	0.0052	95,308	57.58
20	0.0014	0.0071	94,810	52.87
25	0.0013	0.0066	94,140	48.23
30	0.0016	0.0080	93,521	43.53
35	0.0018	0.0092	92,776	38.86
40	0.0027	0.0133	91,922	34.20
45	0.0042	0.0209	90,698	29.62
50	0.0068	0.0337	88,801	25.20
55	0.0108	0.0527	85,811	20.99
60	0.0186	0.0887	81,291	17.02
65	0.0307	0.1426	74,079	13.44
70	0.0538	0.2372	63,516	10.25
75	0.0883	0.3616	48,449	7.67
80	0.1432	0.5273	30,931	5.59
85	0.2475	1	14,620	4.04

## WHO LIFE TABLE FOR 1999: POLAND

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0115	0.0114	100,000	67.85
1	0.0004	0.0017	98,858	67.64
5	0.0002	0.0012	98,692	63.75
10	0.0003	0.0013	98,574	58.82
15	0.0008	0.0039	98,450	53.89
20	0.0012	0.0061	98,070	49.09
25	0.0014	0.0069	97,471	44.38
30	0.0020	0.0101	96,797	39.67
35	0.0032	0.0161	95,816	35.05
40	0.0053	0.0261	94,278	30.58
45	0.0082	0.0404	91,821	26.33
50	0.0131	0.0636	88,109	22.34
55	0.0200	0.0953	82,507	18.68
60	0.0296	0.1380	74,646	15.39
65	0.0431	0.1945	64,344	12.45
70	0.0641	0.2763	51,829	9.85
75	0.0924	0.3752	37,511	7.66
80	0.1452	0.5326	23,436	5.76
85	0.2236	1	10,953	4.47

### Females

0	0.0093	0.0092	100,000	76.61
1	0.0003	0.0014	99,076	76.32
5	0.0002	0.0009	98,941	72.42
10	0.0002	0.0008	98,857	67.48
15	0.0003	0.0014	98,779	62.53
20	0.0003	0.0015	98,636	57.62
25	0.0004	0.0018	98,486	52.70
30	0.0006	0.0028	98,305	47.80
35	0.0010	0.0050	98,025	42.93
40	0.0018	0.0090	97,532	38.13
45	0.0029	0.0144	96,654	33.45
50	0.0044	0.0217	95,260	28.91
55	0.0067	0.0330	93,194	24.49
60	0.0109	0.0532	90,123	20.24
65	0.0186	0.0891	85,329	16.24
70	0.0329	0.1519	77,727	12.58
75	0.0574	0.2508	65,924	9.39
80	0.1083	0.4262	49,390	6.69
85	0.2079	1	28,340	4.81

## WHO LIFE TABLE FOR 1999: PORTUGAL

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0066	0.0066	100,000	72.02
1	0.0005	0.0021	99,339	71.49
5	0.0003	0.0014	99,129	67.64
10	0.0004	0.0018	98,990	62.73
15	0.0010	0.0051	98,807	57.85
20	0.0016	0.0080	98,306	53.13
25	0.0020	0.0099	97,518	48.54
30	0.0023	0.0113	96,549	44.00
35	0.0028	0.0141	95,455	39.48
40	0.0036	0.0177	94,108	35.00
45	0.0046	0.0226	92,441	30.59
50	0.0067	0.0331	90,351	26.24
55	0.0107	0.0519	87,361	22.05
60	0.0166	0.0799	82,828	18.12
65	0.0265	0.1242	76,209	14.48
70	0.0436	0.1965	66,745	11.18
75	0.0718	0.3044	53,631	8.30
80	0.1355	0.5061	37,308	5.84
85	0.2347	1	18,425	4.26

### Females

0	0.0050	0.0050	100,000	79.53
1	0.0004	0.0016	99,498	78.93
5	0.0002	0.0012	99,341	75.05
10	0.0002	0.0011	99,218	70.14
15	0.0003	0.0017	99,114	65.21
20	0.0004	0.0020	98,949	60.31
25	0.0005	0.0023	98,750	55.43
30	0.0008	0.0041	98,525	50.55
35	0.0009	0.0046	98,117	45.75
40	0.0013	0.0063	97,663	40.95
45	0.0020	0.0101	97,051	36.20
50	0.0030	0.0148	96,070	31.54
55	0.0041	0.0201	94,652	26.97
60	0.0068	0.0335	92,749	22.48
65	0.0116	0.0564	89,646	18.17
70	0.0217	0.1028	84,586	14.11
75	0.0416	0.1883	75,894	10.43
80	0.0895	0.3658	61,604	7.28
85	0.1988	1	39,066	5.03

## WHO LIFE TABLE FOR 1999: QATAR

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0159	0.0157	100,000	71.55
1	0.0008	0.0031	98,433	71.69
5	0.0005	0.0024	98,128	67.91
10	0.0004	0.0021	97,888	63.07
15	0.0008	0.0038	97,682	58.20
20	0.0008	0.0038	97,311	53.41
25	0.0007	0.0037	96,943	48.60
30	0.0009	0.0043	96,589	43.77
35	0.0011	0.0056	96,175	38.95
40	0.0017	0.0084	95,641	34.15
45	0.0033	0.0164	94,838	29.42
50	0.0064	0.0316	93,285	24.87
55	0.0104	0.0509	90,338	20.60
60	0.0210	0.0999	85,740	16.57
65	0.0337	0.1554	77,177	13.13
70	0.0571	0.2485	65,186	10.09
75	0.0845	0.3453	48,985	7.64
80	0.1439	0.5182	32,068	5.43
85	0.2639	1	15,450	3.79

### Females

0	0.0161	0.0159	100,000	74.57
1	0.0007	0.0028	98,413	74.77
5	0.0003	0.0016	98,134	70.98
10	0.0003	0.0013	97,972	66.09
15	0.0003	0.0014	97,844	61.18
20	0.0003	0.0014	97,709	56.26
25	0.0005	0.0023	97,571	51.34
30	0.0005	0.0024	97,344	46.45
35	0.0009	0.0043	97,111	41.55
40	0.0013	0.0066	96,690	36.72
45	0.0024	0.0121	96,054	31.95
50	0.0050	0.0247	94,893	27.31
55	0.0075	0.0367	92,550	22.94
60	0.0166	0.0797	89,155	18.72
65	0.0245	0.1155	82,047	15.12
70	0.0450	0.2013	72,570	11.78
75	0.0629	0.2696	57,965	9.14
80	0.1030	0.4029	42,336	6.65
85	0.2183	1	25,279	4.58



## WHO LIFE TABLE FOR 1999: REPUBLIC OF KOREA

### Males

x	nMx	nqx	lx	ex
0	0.0056	0.0056	100,000	69.21
1	0.0014	0.0055	99,444	68.60
5	0.0004	0.0022	98,895	64.97
10	0.0004	0.0019	98,678	60.11
15	0.0011	0.0057	98,488	55.22
20	0.0013	0.0066	97,923	50.52
25	0.0017	0.0084	97,276	45.84
30	0.0020	0.0100	96,461	41.21
35	0.0033	0.0162	95,496	36.60
40	0.0047	0.0232	93,946	32.16
45	0.0075	0.0368	91,768	27.87
50	0.0109	0.0531	88,395	23.84
55	0.0159	0.0765	83,701	20.03
60	0.0235	0.1109	77,295	16.48
65	0.0341	0.1568	68,722	13.23
70	0.0562	0.2450	57,944	10.23
75	0.0807	0.3323	43,746	7.78
80	0.1377	0.5019	29,209	5.48
85	0.2718	1	14,549	3.68

### Females

0	0.0056	0.0056	100,000	76.26
1	0.0012	0.0049	99,439	75.69
5	0.0004	0.0019	98,951	72.06
10	0.0003	0.0013	98,764	67.19
15	0.0005	0.0027	98,631	62.27
20	0.0007	0.0032	98,362	57.44
25	0.0008	0.0038	98,043	52.62
30	0.0010	0.0052	97,675	47.81
35	0.0012	0.0061	97,167	43.04
40	0.0018	0.0092	96,570	38.29
45	0.0029	0.0146	95,681	33.63
50	0.0041	0.0204	94,283	29.09
55	0.0063	0.0308	92,364	24.64
60	0.0105	0.0509	89,518	20.34
65	0.0173	0.0827	84,959	16.30
70	0.0311	0.1437	77,937	12.55
75	0.0530	0.2324	66,734	9.25
80	0.1034	0.4040	51,223	6.34
85	0.2448	1	30,528	4.09

## WHO LIFE TABLE FOR 1999: REPUBLIC OF MOLDOVA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0162	0.0160	100,000	64.78
1	0.0010	0.0040	98,401	64.83
5	0.0004	0.0021	98,006	61.09
10	0.0004	0.0021	97,804	56.21
15	0.0008	0.0041	97,594	51.32
20	0.0015	0.0076	97,191	46.52
25	0.0022	0.0109	96,450	41.86
30	0.0032	0.0161	95,399	37.30
35	0.0046	0.0230	93,865	32.87
40	0.0074	0.0364	91,710	28.58
45	0.0099	0.0483	88,374	24.56
50	0.0167	0.0799	84,106	20.68
55	0.0230	0.1089	77,383	17.26
60	0.0338	0.1557	68,954	14.07
65	0.0514	0.2279	58,215	11.20
70	0.0758	0.3185	44,947	8.77
75	0.1050	0.4159	30,630	6.70
80	0.1901	0.6442	17,891	4.69
85	0.2737	1	6,366	3.65

### Females

0	0.0135	0.0133	100,000	71.92
1	0.0008	0.0033	98,667	71.89
5	0.0003	0.0016	98,343	68.12
10	0.0003	0.0013	98,185	63.22
15	0.0003	0.0017	98,055	58.30
20	0.0005	0.0023	97,888	53.40
25	0.0008	0.0040	97,665	48.52
30	0.0011	0.0053	97,273	43.70
35	0.0016	0.0079	96,755	38.92
40	0.0028	0.0138	95,991	34.21
45	0.0043	0.0213	94,669	29.65
50	0.0080	0.0393	92,656	25.24
55	0.0123	0.0596	89,014	21.17
60	0.0190	0.0906	83,706	17.36
65	0.0302	0.1405	76,124	13.84
70	0.0479	0.2140	65,426	10.69
75	0.0770	0.3227	51,426	7.92
80	0.1485	0.5414	34,830	5.51
85	0.2463	1	15,971	4.06

## WHO LIFE TABLE FOR 1999: ROMANIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0249	0.0243	100,000	65.14
1	0.0013	0.0050	97,567	65.76
5	0.0011	0.0052	97,075	62.09
10	0.0007	0.0035	96,566	57.40
15	0.0009	0.0044	96,231	52.59
20	0.0013	0.0063	95,810	47.81
25	0.0018	0.0088	95,210	43.10
30	0.0025	0.0125	94,369	38.46
35	0.0045	0.0220	93,191	33.92
40	0.0074	0.0364	91,138	29.62
45	0.0111	0.0540	87,825	25.65
50	0.0155	0.0747	83,085	21.97
55	0.0223	0.1057	76,882	18.54
60	0.0308	0.1430	68,758	15.43
65	0.0418	0.1891	58,924	12.59
70	0.0607	0.2636	47,782	9.95
75	0.0902	0.3679	35,184	7.61
80	0.1499	0.5452	22,239	5.59
85	0.2334	1	10,114	4.29

### Females

0	0.0188	0.0184	100,000	73.46
1	0.0010	0.0038	98,156	73.84
5	0.0007	0.0034	97,781	70.12
10	0.0004	0.0020	97,452	65.35
15	0.0005	0.0024	97,256	60.47
20	0.0005	0.0024	97,024	55.61
25	0.0006	0.0032	96,790	50.74
30	0.0009	0.0046	96,478	45.90
35	0.0016	0.0080	96,030	41.10
40	0.0026	0.0127	95,264	36.41
45	0.0039	0.0192	94,050	31.85
50	0.0060	0.0294	92,246	27.42
55	0.0089	0.0435	89,538	23.18
60	0.0135	0.0654	85,640	19.12
65	0.0216	0.1026	80,037	15.28
70	0.0379	0.1731	71,824	11.74
75	0.0662	0.2841	59,389	8.68
80	0.1232	0.4709	42,518	6.13
85	0.2296	1	22,498	4.36

## WHO LIFE TABLE FOR 1999: RUSSIAN FEDERATION

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0201	0.0198	100,000	62.67
1	0.0011	0.0042	98,024	62.93
5	0.0005	0.0027	97,612	59.19
10	0.0006	0.0028	97,347	54.34
15	0.0018	0.0089	97,077	49.48
20	0.0036	0.0178	96,211	44.91
25	0.0042	0.0205	94,500	40.68
30	0.0053	0.0261	92,559	36.48
35	0.0068	0.0336	90,145	32.39
40	0.0093	0.0454	87,120	28.42
45	0.0128	0.0620	83,163	24.66
50	0.0176	0.0841	78,011	21.12
55	0.0253	0.1190	71,453	17.83
60	0.0345	0.1588	62,953	14.90
65	0.0495	0.2204	52,953	12.24
70	0.0652	0.2805	41,283	9.99
75	0.0930	0.3774	29,704	7.92
80	0.1345	0.5033	18,494	6.20
85	0.2021	1	9,186	4.95

### Females

0	0.0154	0.0152	100,000	74.02
1	0.0009	0.0037	98,484	74.16
5	0.0003	0.0017	98,123	70.43
10	0.0003	0.0014	97,957	65.54
15	0.0007	0.0037	97,820	60.63
20	0.0010	0.0048	97,460	55.85
25	0.0011	0.0056	96,992	51.10
30	0.0014	0.0070	96,452	46.38
35	0.0019	0.0095	95,773	41.69
40	0.0027	0.0135	94,859	37.07
45	0.0042	0.0207	93,578	32.54
50	0.0060	0.0297	91,641	28.17
55	0.0090	0.0441	88,918	23.96
60	0.0136	0.0656	84,996	19.95
65	0.0216	0.1025	79,421	16.18
70	0.0344	0.1585	71,280	12.74
75	0.0588	0.2562	59,984	9.66
80	0.1002	0.4005	44,613	7.13
85	0.1912	1	26,744	5.23

## WHO LIFE TABLE FOR 1999: RWANDA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1132	0.1049	100,000	41.02
1	0.0249	0.0939	89,508	44.79
5	0.0067	0.0328	81,107	45.26
10	0.0044	0.0220	78,443	41.72
15	0.0061	0.0300	76,720	37.60
20	0.0099	0.0482	74,416	33.68
25	0.0159	0.0764	70,830	30.26
30	0.0221	0.1046	65,416	27.56
35	0.0243	0.1146	58,574	25.49
40	0.0252	0.1185	51,863	23.46
45	0.0256	0.1204	45,715	21.28
50	0.0261	0.1227	40,213	18.85
55	0.0288	0.1345	35,281	16.13
60	0.0397	0.1806	30,536	13.25
65	0.0581	0.2529	25,022	10.62
70	0.0854	0.3494	18,694	8.39
75	0.1180	0.4494	12,162	6.61
80	0.1681	0.5782	6,696	5.08
85	0.2573	1	2,825	3.89

### Females

0	0.0899	0.0846	100,000	42.27
1	0.0226	0.0856	91,545	45.15
5	0.0067	0.0328	83,709	45.22
10	0.0044	0.0219	80,961	41.67
15	0.0070	0.0344	79,189	37.55
20	0.0129	0.0624	76,468	33.80
25	0.0203	0.0966	71,695	30.88
30	0.0241	0.1137	64,771	28.91
35	0.0224	0.1061	57,404	27.31
40	0.0215	0.1020	51,313	25.25
45	0.0191	0.0913	46,078	22.83
50	0.0210	0.0995	41,872	19.88
55	0.0254	0.1194	37,703	16.80
60	0.0358	0.1641	33,202	13.74
65	0.0525	0.2314	27,753	10.94
70	0.0820	0.3379	21,331	8.50
75	0.1178	0.4489	14,123	6.61
80	0.1701	0.5828	7,784	5.08
85	0.2519	1	3,248	3.97

## WHO LIFE TABLE FOR 1999: SAINT KITTS AND NEVIS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0282	0.0275	100,000	64.96
1	0.0016	0.0065	97,254	65.79
5	0.0006	0.0029	96,623	62.21
10	0.0007	0.0033	96,342	57.38
15	0.0021	0.0104	96,020	52.57
20	0.0034	0.0171	95,025	48.09
25	0.0038	0.0190	93,400	43.88
30	0.0043	0.0214	91,627	39.68
35	0.0051	0.0252	89,668	35.50
40	0.0061	0.0300	87,412	31.35
45	0.0083	0.0407	84,785	27.24
50	0.0122	0.0592	81,336	23.29
55	0.0181	0.0865	76,525	19.60
60	0.0277	0.1295	69,904	16.22
65	0.0388	0.1768	60,851	13.26
70	0.0578	0.2526	50,094	10.57
75	0.0830	0.3436	37,438	8.29
80	0.1270	0.4820	24,576	6.33
85	0.2046	1	12,730	4.89

### Females

0	0.0223	0.0219	100,000	71.18
1	0.0015	0.0060	97,810	71.78
5	0.0005	0.0023	97,224	68.20
10	0.0004	0.0022	97,004	63.35
15	0.0008	0.0038	96,789	58.48
20	0.0010	0.0049	96,418	53.70
25	0.0012	0.0058	95,949	48.95
30	0.0016	0.0078	95,394	44.22
35	0.0022	0.0112	94,652	39.55
40	0.0032	0.0159	93,596	34.96
45	0.0049	0.0243	92,105	30.49
50	0.0079	0.0385	89,867	26.19
55	0.0121	0.0588	86,406	22.14
60	0.0194	0.0924	81,327	18.36
65	0.0282	0.1316	73,815	14.98
70	0.0434	0.1957	64,103	11.87
75	0.0671	0.2872	51,560	9.15
80	0.1110	0.4343	36,752	6.82
85	0.1945	1	20,789	5.14

## WHO LIFE TABLE FOR 1999: SAINT LUCIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0228	0.0223	100,000	68.87
1	0.0013	0.0050	97,765	69.45
5	0.0004	0.0022	97,275	65.79
10	0.0005	0.0026	97,058	60.93
15	0.0016	0.0079	96,810	56.08
20	0.0026	0.0129	96,046	51.50
25	0.0029	0.0142	94,808	47.15
30	0.0032	0.0159	93,461	42.79
35	0.0038	0.0186	91,975	38.44
40	0.0045	0.0222	90,261	34.12
45	0.0061	0.0301	88,257	29.84
50	0.0090	0.0438	85,605	25.69
55	0.0134	0.0647	81,852	21.75
60	0.0207	0.0985	76,558	18.08
65	0.0296	0.1380	69,019	14.78
70	0.0457	0.2050	59,497	11.75
75	0.0685	0.2924	47,301	9.13
80	0.1107	0.4334	33,470	6.87
85	0.1915	1	18,963	5.22

### Females

0	0.0150	0.0148	100,000	74.85
1	0.0010	0.0041	98,521	74.98
5	0.0003	0.0015	98,122	71.27
10	0.0003	0.0015	97,972	66.38
15	0.0005	0.0026	97,825	61.48
20	0.0007	0.0033	97,570	56.63
25	0.0008	0.0039	97,248	51.81
30	0.0011	0.0053	96,865	47.00
35	0.0015	0.0076	96,351	42.24
40	0.0022	0.0110	95,615	37.55
45	0.0034	0.0169	94,566	32.94
50	0.0055	0.0270	92,973	28.46
55	0.0086	0.0420	90,460	24.18
60	0.0140	0.0678	86,662	20.13
65	0.0211	0.1000	80,789	16.41
70	0.0339	0.1561	72,708	12.96
75	0.0554	0.2432	61,359	9.89
80	0.0981	0.3941	46,434	7.26
85	0.1864	1	28,137	5.36

**WHO LIFE TABLE FOR 1999: ST VINCENT AND THE GRENADINES**

**Males**

<b>x</b>	<b><math>nM_x</math></b>	<b><math>nq_x</math></b>	<b><math>l_x</math></b>	<b><math>e_x</math></b>
0	0.0237	0.0232	100,000	71.89
1	0.0012	0.0046	97,681	72.60
5	0.0004	0.0020	97,228	68.93
10	0.0005	0.0023	97,030	64.06
15	0.0014	0.0070	96,806	59.21
20	0.0023	0.0112	96,125	54.61
25	0.0024	0.0121	95,046	50.20
30	0.0027	0.0132	93,899	45.78
35	0.0031	0.0152	92,656	41.36
40	0.0036	0.0178	91,245	36.96
45	0.0048	0.0238	89,616	32.59
50	0.0069	0.0342	87,485	28.32
55	0.0102	0.0497	84,498	24.24
60	0.0156	0.0749	80,301	20.37
65	0.0221	0.1047	74,286	16.82
70	0.0342	0.1574	66,510	13.49
75	0.0523	0.2311	56,039	10.55
80	0.0880	0.3607	43,087	7.97
85	0.1653	1	27,544	6.05

**Females**

0	0.0210	0.0206	100,000	75.16
1	0.0012	0.0050	97,935	75.74
5	0.0004	0.0018	97,448	72.11
10	0.0004	0.0018	97,269	67.24
15	0.0006	0.0031	97,094	62.36
20	0.0008	0.0039	96,796	57.54
25	0.0009	0.0045	96,422	52.76
30	0.0012	0.0060	95,987	47.98
35	0.0017	0.0085	95,411	43.26
40	0.0024	0.0119	94,604	38.61
45	0.0036	0.0177	93,482	34.04
50	0.0056	0.0275	91,826	29.61
55	0.0084	0.0411	89,305	25.37
60	0.0132	0.0637	85,637	21.35
65	0.0189	0.0905	80,184	17.64
70	0.0294	0.1368	72,931	14.14
75	0.0468	0.2094	62,952	10.99
80	0.0822	0.3410	49,772	8.23
85	0.1613	1	32,801	6.20



## WHO LIFE TABLE FOR 1999: SAMOA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0192	0.0188	100,000	65.37
1	0.0022	0.0089	98,115	65.63
5	0.0008	0.0041	97,243	62.20
10	0.0007	0.0033	96,844	57.45
15	0.0011	0.0055	96,521	52.63
20	0.0015	0.0074	95,988	47.91
25	0.0015	0.0074	95,280	43.25
30	0.0021	0.0104	94,576	38.55
35	0.0027	0.0132	93,594	33.93
40	0.0038	0.0190	92,362	29.35
45	0.0063	0.0312	90,602	24.87
50	0.0109	0.0532	87,774	20.59
55	0.0189	0.0901	83,105	16.61
60	0.0340	0.1565	75,613	13.00
65	0.0574	0.2511	63,782	9.95
70	0.0955	0.3855	47,768	7.45
75	0.1483	0.5409	29,355	5.56
80	0.2163	0.7020	13,477	4.16
85	0.3257	1	4,017	3.07

### Females

0	0.0169	0.0167	100,000	70.69
1	0.0020	0.0081	98,333	70.89
5	0.0005	0.0025	97,534	67.46
10	0.0004	0.0021	97,291	62.62
15	0.0008	0.0038	97,089	57.74
20	0.0010	0.0052	96,721	52.95
25	0.0010	0.0050	96,214	48.22
30	0.0012	0.0061	95,736	43.45
35	0.0015	0.0072	95,148	38.70
40	0.0022	0.0107	94,459	33.96
45	0.0035	0.0174	93,444	29.31
50	0.0059	0.0293	91,815	24.78
55	0.0099	0.0483	89,126	20.45
60	0.0181	0.0866	84,822	16.37
65	0.0321	0.1487	77,476	12.68
70	0.0603	0.2619	65,954	9.46
75	0.1028	0.4089	48,679	6.93
80	0.1650	0.5840	28,777	4.99
85	0.2869	1	11,972	3.49

## WHO LIFE TABLE FOR 1999: SAN MARINO

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0060	0.0059	100,000	75.32
1	0.0003	0.0011	99,407	74.76
5	0.0002	0.0008	99,302	70.84
10	0.0002	0.0011	99,222	65.90
15	0.0006	0.0032	99,117	60.96
20	0.0009	0.0044	98,803	56.15
25	0.0010	0.0049	98,365	51.39
30	0.0015	0.0074	97,887	46.63
35	0.0016	0.0080	97,166	41.96
40	0.0018	0.0092	96,392	37.27
45	0.0028	0.0139	95,509	32.59
50	0.0047	0.0233	94,179	28.02
55	0.0081	0.0396	91,983	23.63
60	0.0140	0.0678	88,341	19.50
65	0.0238	0.1125	82,351	15.74
70	0.0384	0.1754	73,085	12.41
75	0.0628	0.2714	60,268	9.52
80	0.1023	0.4072	43,910	7.14
85	0.1879	1	26,028	5.32

### Females

0	0.0049	0.0048	100,000	82.03
1	0.0003	0.0011	99,516	81.43
5	0.0001	0.0007	99,410	77.51
10	0.0001	0.0006	99,344	72.56
15	0.0002	0.0011	99,286	67.60
20	0.0003	0.0013	99,182	62.67
25	0.0004	0.0018	99,054	57.75
30	0.0006	0.0028	98,880	52.85
35	0.0007	0.0033	98,604	47.99
40	0.0009	0.0047	98,279	43.14
45	0.0015	0.0076	97,817	38.33
50	0.0024	0.0118	97,077	33.60
55	0.0036	0.0177	95,931	28.97
60	0.0058	0.0285	94,236	24.45
65	0.0100	0.0487	91,554	20.09
70	0.0175	0.0840	87,094	15.99
75	0.0332	0.1532	79,776	12.23
80	0.0633	0.2734	67,559	8.99
85	0.1554	1	49,087	6.43

## WHO LIFE TABLE FOR 1999: SAO TOME AND PRINCIPE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0470	0.0451	100,000	61.86
1	0.0099	0.0386	95,487	63.77
5	0.0029	0.0144	91,804	62.27
10	0.0019	0.0095	90,481	58.14
15	0.0025	0.0125	89,623	53.68
20	0.0034	0.0167	88,503	49.32
25	0.0040	0.0199	87,023	45.12
30	0.0042	0.0206	85,289	40.99
35	0.0049	0.0241	83,536	36.79
40	0.0060	0.0294	81,523	32.64
45	0.0072	0.0354	79,127	28.55
50	0.0095	0.0466	76,325	24.51
55	0.0135	0.0655	72,771	20.58
60	0.0206	0.0982	68,006	16.85
65	0.0331	0.1529	61,331	13.41
70	0.0546	0.2403	51,954	10.38
75	0.0870	0.3574	39,470	7.88
80	0.1348	0.5040	25,364	5.87
85	0.2330	1	12,579	4.29

### Females

0	0.0247	0.0241	100,000	65.15
1	0.0070	0.0274	97,586	65.76
5	0.0024	0.0119	94,915	63.56
10	0.0016	0.0081	93,791	59.29
15	0.0020	0.0099	93,031	54.76
20	0.0025	0.0124	92,113	50.28
25	0.0032	0.0156	90,967	45.88
30	0.0036	0.0179	89,545	41.57
35	0.0044	0.0218	87,943	37.28
40	0.0053	0.0261	86,026	33.06
45	0.0062	0.0306	83,782	28.88
50	0.0082	0.0402	81,219	24.71
55	0.0122	0.0593	77,956	20.64
60	0.0195	0.0932	73,331	16.78
65	0.0332	0.1534	66,497	13.25
70	0.0564	0.2471	56,295	10.20
75	0.0886	0.3628	42,387	7.72
80	0.1405	0.5198	27,009	5.70
85	0.2407	1	12,971	4.16

## WHO LIFE TABLE FOR 1999: SAUDI ARABIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0177	0.0174	100,000	70.79
1	0.0008	0.0033	98,258	71.04
5	0.0005	0.0026	97,933	67.27
10	0.0005	0.0023	97,675	62.44
15	0.0008	0.0040	97,454	57.58
20	0.0008	0.0041	97,062	52.80
25	0.0008	0.0038	96,667	48.00
30	0.0009	0.0046	96,300	43.18
35	0.0012	0.0061	95,854	38.37
40	0.0018	0.0089	95,269	33.59
45	0.0035	0.0175	94,417	28.87
50	0.0071	0.0347	92,768	24.34
55	0.0113	0.0548	89,546	20.12
60	0.0220	0.1044	84,641	16.14
65	0.0334	0.1540	75,808	12.73
70	0.0592	0.2577	64,133	9.59
75	0.1000	0.3999	47,604	7.06
80	0.1631	0.5793	28,569	5.10
85	0.2726	1	12,019	3.67

### Females

0	0.0173	0.0170	100,000	72.51
1	0.0008	0.0032	98,301	72.76
5	0.0004	0.0019	97,991	68.98
10	0.0003	0.0015	97,808	64.11
15	0.0003	0.0016	97,660	59.20
20	0.0003	0.0016	97,507	54.29
25	0.0005	0.0027	97,350	49.38
30	0.0005	0.0027	97,087	44.50
35	0.0010	0.0052	96,822	39.62
40	0.0015	0.0076	96,317	34.81
45	0.0029	0.0144	95,580	30.06
50	0.0060	0.0297	94,204	25.46
55	0.0093	0.0456	91,407	21.17
60	0.0188	0.0900	87,237	17.06
65	0.0278	0.1298	79,388	13.50
70	0.0518	0.2294	69,087	10.14
75	0.0913	0.3715	53,238	7.41
80	0.1539	0.5557	33,458	5.31
85	0.2608	1	14,867	3.83

## WHO LIFE TABLE FOR 1999: SENEGAL

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0813	0.0769	100,000	53.50
1	0.0160	0.0616	92,306	56.94
5	0.0044	0.0220	86,617	56.57
10	0.0029	0.0142	84,714	52.78
15	0.0039	0.0195	83,513	48.51
20	0.0054	0.0267	81,885	44.42
25	0.0073	0.0356	79,696	40.57
30	0.0084	0.0414	76,855	36.98
35	0.0094	0.0457	73,675	33.47
40	0.0107	0.0520	70,305	29.95
45	0.0119	0.0578	66,647	26.46
50	0.0143	0.0691	62,794	22.93
55	0.0186	0.0889	58,455	19.45
60	0.0254	0.1193	53,257	16.10
65	0.0387	0.1759	46,902	12.94
70	0.0591	0.2563	38,651	10.18
75	0.0902	0.3641	28,745	7.87
80	0.1288	0.4777	18,280	6.02
85	0.2257	1	9,547	4.43

### Females

0	0.0766	0.0727	100,000	56.11
1	0.0146	0.0565	92,726	59.49
5	0.0043	0.0211	87,487	58.95
10	0.0028	0.0139	85,643	55.17
15	0.0037	0.0182	84,457	50.91
20	0.0051	0.0251	82,922	46.81
25	0.0071	0.0348	80,845	42.94
30	0.0080	0.0390	78,030	39.40
35	0.0082	0.0400	74,986	35.90
40	0.0086	0.0422	71,988	32.29
45	0.0090	0.0438	68,949	28.61
50	0.0101	0.0494	65,929	24.80
55	0.0140	0.0679	62,672	20.96
60	0.0207	0.0984	58,419	17.30
65	0.0320	0.1479	52,671	13.92
70	0.0507	0.2241	44,882	10.91
75	0.0781	0.3237	34,825	8.37
80	0.1185	0.4488	23,554	6.25
85	0.2241	1	12,982	4.46

## WHO LIFE TABLE FOR 1999: SEYCHELLES

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0076	0.0075	100,000	64.68
1	0.0035	0.0140	99,246	64.17
5	0.0013	0.0067	97,854	61.06
10	0.0010	0.0048	97,198	56.45
15	0.0014	0.0069	96,729	51.72
20	0.0020	0.0101	96,064	47.06
25	0.0027	0.0133	95,097	42.51
30	0.0030	0.0151	93,834	38.05
35	0.0039	0.0195	92,415	33.59
40	0.0053	0.0263	90,613	29.21
45	0.0072	0.0352	88,229	24.93
50	0.0106	0.0518	85,123	20.75
55	0.0172	0.0822	80,717	16.75
60	0.0302	0.1405	74,079	13.02
65	0.0558	0.2449	63,669	9.75
70	0.1014	0.4045	48,074	7.10
75	0.1618	0.5759	28,626	5.22
80	0.2316	0.7335	12,140	3.91
85	0.3584	1	3,236	2.79

### Females

0	0.0042	0.0042	100,000	70.74
1	0.0020	0.0079	99,583	70.04
5	0.0008	0.0041	98,795	66.58
10	0.0006	0.0030	98,391	61.85
15	0.0008	0.0039	98,096	57.02
20	0.0010	0.0052	97,718	52.24
25	0.0014	0.0070	97,213	47.49
30	0.0017	0.0086	96,536	42.81
35	0.0023	0.0112	95,710	38.16
40	0.0029	0.0145	94,636	33.56
45	0.0037	0.0185	93,261	29.02
50	0.0054	0.0265	91,539	24.52
55	0.0089	0.0434	89,117	20.12
60	0.0157	0.0754	85,250	15.92
65	0.0313	0.1451	78,823	12.01
70	0.0659	0.2830	67,386	8.62
75	0.1247	0.4753	48,312	6.04
80	0.2033	0.6739	25,348	4.25
85	0.3484	1	8,267	2.87

## WHO LIFE TABLE FOR 1999: SIERRA LEONE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.2305	0.1985	100,000	33.15
1	0.0440	0.1591	80,151	40.29
5	0.0113	0.0552	67,400	43.61
10	0.0073	0.0357	63,682	41.01
15	0.0094	0.0460	61,411	37.43
20	0.0127	0.0615	58,587	34.11
25	0.0162	0.0780	54,986	31.18
30	0.0181	0.0868	50,697	28.61
35	0.0203	0.0965	46,296	26.09
40	0.0221	0.1045	41,827	23.61
45	0.0239	0.1129	37,455	21.08
50	0.0275	0.1286	33,228	18.44
55	0.0323	0.1496	28,957	15.79
60	0.0436	0.1964	24,624	13.13
65	0.0602	0.2611	19,787	10.73
70	0.0852	0.3488	14,621	8.66
75	0.1116	0.4307	9,521	7.01
80	0.1530	0.5413	5,421	5.54
85	0.2297	1	2,487	4.35

### Females

0	0.2026	0.1775	100,000	35.46
1	0.0398	0.1453	82,253	42.05
5	0.0113	0.0551	70,299	44.93
10	0.0071	0.0351	66,426	42.40
15	0.0089	0.0434	64,096	38.85
20	0.0119	0.0579	61,316	35.50
25	0.0164	0.0789	57,767	32.53
30	0.0183	0.0875	53,209	30.10
35	0.0190	0.0907	48,551	27.75
40	0.0184	0.0881	44,150	25.26
45	0.0193	0.0920	40,262	22.46
50	0.0224	0.1060	36,559	19.48
55	0.0282	0.1315	32,684	16.50
60	0.0396	0.1800	28,386	13.62
65	0.0551	0.2416	23,275	11.06
70	0.0798	0.3304	17,651	8.80
75	0.1110	0.4290	11,819	6.96
80	0.1564	0.5499	6,749	5.42
85	0.2358	1	3,038	4.24

## WHO LIFE TABLE FOR 1999: SINGAPORE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0028	0.0028	100,000	75.07
1	0.0004	0.0015	99,725	74.28
5	0.0002	0.0009	99,572	70.39
10	0.0003	0.0013	99,486	65.45
15	0.0007	0.0034	99,355	60.53
20	0.0013	0.0067	99,013	55.73
25	0.0015	0.0073	98,350	51.09
30	0.0015	0.0073	97,630	46.45
35	0.0017	0.0082	96,913	41.77
40	0.0023	0.0112	96,116	37.10
45	0.0029	0.0146	95,039	32.49
50	0.0057	0.0283	93,653	27.93
55	0.0093	0.0456	91,000	23.67
60	0.0168	0.0805	86,851	19.69
65	0.0290	0.1352	79,861	16.19
70	0.0420	0.1899	69,068	13.33
75	0.0679	0.2901	55,948	10.87
80	0.0724	0.3066	39,718	9.29
85	0.1371	1	27,539	7.29

### Females

0	0.0022	0.0022	100,000	80.77
1	0.0003	0.0011	99,781	79.95
5	0.0001	0.0005	99,675	76.03
10	0.0002	0.0010	99,622	71.07
15	0.0003	0.0015	99,527	66.14
20	0.0005	0.0024	99,380	61.23
25	0.0005	0.0023	99,143	56.37
30	0.0005	0.0024	98,915	51.50
35	0.0007	0.0034	98,682	46.61
40	0.0011	0.0055	98,347	41.76
45	0.0018	0.0089	97,808	36.98
50	0.0032	0.0160	96,937	32.29
55	0.0054	0.0265	95,391	27.77
60	0.0095	0.0466	92,866	23.46
65	0.0162	0.0776	88,538	19.48
70	0.0281	0.1313	81,666	15.91
75	0.0458	0.2056	70,940	12.94
80	0.0533	0.2351	56,358	10.64
85	0.1228	1	43,108	8.14



## WHO LIFE TABLE FOR 1999: SLOVAKIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0101	0.0100	100,000	68.88
1	0.0004	0.0015	98,998	68.57
5	0.0003	0.0013	98,846	64.68
10	0.0002	0.0012	98,712	59.76
15	0.0007	0.0033	98,591	54.83
20	0.0010	0.0049	98,264	50.01
25	0.0012	0.0059	97,787	45.24
30	0.0015	0.0074	97,211	40.49
35	0.0025	0.0124	96,489	35.77
40	0.0045	0.0220	95,293	31.19
45	0.0071	0.0348	93,193	26.84
50	0.0120	0.0581	89,954	22.71
55	0.0184	0.0881	84,723	18.96
60	0.0292	0.1363	77,262	15.55
65	0.0423	0.1912	66,732	12.61
70	0.0634	0.2738	53,974	10.00
75	0.0910	0.3708	39,196	7.83
80	0.1373	0.5110	24,660	5.97
85	0.2172	1	12,060	4.60

### Females

0	0.0083	0.0082	100,000	76.65
1	0.0004	0.0016	99,180	76.28
5	0.0002	0.0009	99,019	72.40
10	0.0002	0.0008	98,932	67.47
15	0.0003	0.0014	98,851	62.52
20	0.0002	0.0011	98,715	57.60
25	0.0004	0.0020	98,603	52.66
30	0.0006	0.0030	98,410	47.76
35	0.0009	0.0045	98,112	42.90
40	0.0015	0.0075	97,667	38.08
45	0.0024	0.0121	96,936	33.35
50	0.0045	0.0223	95,767	28.73
55	0.0067	0.0332	93,627	24.33
60	0.0118	0.0574	90,522	20.08
65	0.0200	0.0951	85,324	16.15
70	0.0342	0.1576	77,213	12.58
75	0.0570	0.2494	65,041	9.47
80	0.1067	0.4211	48,819	6.78
85	0.2040	1	28,259	4.90

## WHO LIFE TABLE FOR 1999: SLOVENIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0046	0.0046	100,000	71.62
1	0.0002	0.0009	99,543	70.95
5	0.0003	0.0015	99,449	67.02
10	0.0003	0.0016	99,297	62.11
15	0.0006	0.0029	99,136	57.21
20	0.0012	0.0058	98,849	52.37
25	0.0014	0.0069	98,272	47.66
30	0.0015	0.0077	97,592	42.98
35	0.0023	0.0114	96,842	38.29
40	0.0034	0.0170	95,737	33.70
45	0.0054	0.0266	94,114	29.24
50	0.0086	0.0421	91,612	24.97
55	0.0131	0.0633	87,751	20.96
60	0.0227	0.1072	82,193	17.21
65	0.0326	0.1506	73,381	13.98
70	0.0484	0.2158	62,327	11.01
75	0.0789	0.3296	48,875	8.35
80	0.1260	0.4791	32,767	6.23
85	0.2143	1	17,068	4.67

### Females

0	0.0035	0.0035	100,000	79.46
1	0.0002	0.0008	99,648	78.74
5	0.0001	0.0004	99,571	74.80
10	0.0001	0.0005	99,527	69.83
15	0.0003	0.0013	99,476	64.86
20	0.0002	0.0010	99,346	59.95
25	0.0002	0.0011	99,243	55.00
30	0.0004	0.0021	99,130	50.06
35	0.0009	0.0043	98,924	45.16
40	0.0013	0.0064	98,498	40.35
45	0.0021	0.0107	97,868	35.59
50	0.0031	0.0154	96,822	30.95
55	0.0051	0.0253	95,330	26.39
60	0.0080	0.0394	92,923	22.01
65	0.0134	0.0649	89,258	17.81
70	0.0231	0.1091	83,465	13.88
75	0.0447	0.2009	74,358	10.27
80	0.0926	0.3759	59,422	7.22
85	0.1972	1	37,083	5.07

## WHO LIFE TABLE FOR 1999: SOLOMON ISLANDS

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0357	0.0346	100,000	62.00
1	0.0036	0.0145	96,542	63.21
5	0.0013	0.0065	95,145	60.12
10	0.0010	0.0052	94,526	55.50
15	0.0017	0.0085	94,033	50.77
20	0.0022	0.0112	93,230	46.19
25	0.0022	0.0110	92,189	41.68
30	0.0031	0.0152	91,174	37.12
35	0.0038	0.0188	89,791	32.65
40	0.0054	0.0265	88,104	28.23
45	0.0086	0.0419	85,771	23.93
50	0.0141	0.0681	82,177	19.87
55	0.0230	0.1088	76,578	16.14
60	0.0386	0.1759	68,246	12.80
65	0.0605	0.2627	56,238	10.00
70	0.0939	0.3804	41,463	7.68
75	0.1394	0.5169	25,693	5.85
80	0.2008	0.6686	12,412	4.44
85	0.2981	1	4,114	3.35

### Females

0	0.0323	0.0313	100,000	63.98
1	0.0040	0.0158	96,866	65.05
5	0.0010	0.0049	95,338	62.07
10	0.0008	0.0040	94,873	57.36
15	0.0015	0.0074	94,490	52.58
20	0.0021	0.0102	93,790	47.95
25	0.0019	0.0097	92,833	43.42
30	0.0024	0.0120	91,933	38.82
35	0.0028	0.0141	90,834	34.26
40	0.0042	0.0208	89,556	29.72
45	0.0068	0.0334	87,696	25.29
50	0.0113	0.0551	84,771	21.08
55	0.0184	0.0880	80,103	17.16
60	0.0322	0.1491	73,053	13.58
65	0.0531	0.2344	62,157	10.52
70	0.0889	0.3637	47,587	7.97
75	0.1320	0.4964	30,282	6.10
80	0.1873	0.6378	15,251	4.66
85	0.2897	1	5,524	3.45

## WHO LIFE TABLE FOR 1999: SOMALIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1851	0.1639	100,000	43.83
1	0.0130	0.0504	83,609	51.37
5	0.0031	0.0154	79,399	50.01
10	0.0023	0.0116	78,178	45.75
15	0.0032	0.0158	77,274	41.25
20	0.0045	0.0222	76,055	36.87
25	0.0084	0.0412	74,370	32.65
30	0.0136	0.0658	71,307	28.95
35	0.0159	0.0765	66,613	25.81
40	0.0180	0.0860	61,518	22.74
45	0.0215	0.1020	56,225	19.65
50	0.0272	0.1275	50,490	16.60
55	0.0352	0.1616	44,052	13.66
60	0.0570	0.2495	36,932	10.81
65	0.0776	0.3240	27,719	8.57
70	0.1219	0.4628	18,739	6.50
75	0.1679	0.5811	10,066	5.04
80	0.2392	0.7267	4,217	3.76
85	0.3783	1	1,152	2.64

### Females

0	0.1605	0.1443	100,000	44.68
1	0.0157	0.0604	85,570	51.17
5	0.0028	0.0141	80,398	50.36
10	0.0022	0.0110	79,264	46.04
15	0.0038	0.0189	78,390	41.53
20	0.0071	0.0348	76,907	37.28
25	0.0119	0.0579	74,231	33.53
30	0.0144	0.0695	69,937	30.44
35	0.0142	0.0684	65,078	27.52
40	0.0139	0.0670	60,625	24.36
45	0.0161	0.0773	56,566	20.93
50	0.0232	0.1098	52,191	17.48
55	0.0289	0.1349	46,460	14.32
60	0.0529	0.2338	40,193	11.17
65	0.0732	0.3086	30,797	8.81
70	0.1187	0.4535	21,294	6.65
75	0.1652	0.5746	11,637	5.17
80	0.2240	0.6979	4,950	3.99
85	0.3452	1	1,496	2.90

## WHO LIFE TABLE FOR 1999: SOUTH AFRICA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0390	0.0379	100,000	47.30
1	0.0125	0.0486	96,205	48.15
5	0.0034	0.0170	91,528	46.53
10	0.0024	0.0122	89,976	42.29
15	0.0040	0.0197	88,881	37.78
20	0.0077	0.0377	87,130	33.49
25	0.0149	0.0718	83,849	29.70
30	0.0226	0.1070	77,833	26.81
35	0.0249	0.1172	69,505	24.72
40	0.0263	0.1232	61,359	22.67
45	0.0259	0.1215	53,798	20.50
50	0.0268	0.1254	47,261	18.00
55	0.0302	0.1405	41,332	15.22
60	0.0404	0.1834	35,525	12.30
65	0.0652	0.2794	29,011	9.50
70	0.1036	0.4082	20,904	7.23
75	0.1523	0.5425	12,371	5.56
80	0.2104	0.6709	5,660	4.37
85	0.2790	1	1,863	3.58

### Females

0	0.0291	0.0286	100,000	49.65
1	0.0100	0.0392	97,143	50.10
5	0.0028	0.0140	93,334	48.08
10	0.0019	0.0095	92,032	43.72
15	0.0045	0.0223	91,154	39.12
20	0.0111	0.0541	89,123	34.96
25	0.0194	0.0925	84,302	31.81
30	0.0233	0.1100	76,504	29.80
35	0.0212	0.1005	68,091	28.17
40	0.0192	0.0915	61,246	26.04
45	0.0164	0.0787	55,641	23.41
50	0.0166	0.0799	51,262	20.20
55	0.0206	0.0977	47,168	16.74
60	0.0319	0.1478	42,558	13.28
65	0.0542	0.2381	36,270	10.15
70	0.0936	0.3764	27,635	7.55
75	0.1436	0.5200	17,233	5.66
80	0.2206	0.6913	8,272	4.25
85	0.2776	1	2,554	3.60

## WHO LIFE TABLE FOR 1999: SPAIN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0051	0.0051	100,000	75.27
1	0.0003	0.0013	99,495	74.65
5	0.0002	0.0009	99,365	70.75
10	0.0002	0.0010	99,274	65.81
15	0.0006	0.0029	99,175	60.87
20	0.0010	0.0048	98,884	56.04
25	0.0015	0.0076	98,413	51.30
30	0.0023	0.0112	97,661	46.68
35	0.0022	0.0110	96,564	42.18
40	0.0025	0.0123	95,500	37.62
45	0.0037	0.0184	94,328	33.06
50	0.0054	0.0265	92,595	28.63
55	0.0086	0.0420	90,142	24.34
60	0.0133	0.0644	86,359	20.29
65	0.0207	0.0986	80,799	16.52
70	0.0339	0.1564	72,833	13.05
75	0.0545	0.2398	61,439	10.01
80	0.0956	0.3857	46,706	7.38
85	0.1838	1	28,692	5.44

### Females

0	0.0049	0.0049	100,000	82.10
1	0.0003	0.0013	99,511	81.50
5	0.0001	0.0007	99,382	77.60
10	0.0002	0.0008	99,307	72.66
15	0.0002	0.0012	99,227	67.72
20	0.0003	0.0017	99,105	62.80
25	0.0005	0.0026	98,939	57.90
30	0.0007	0.0037	98,686	53.04
35	0.0009	0.0045	98,325	48.22
40	0.0011	0.0056	97,885	43.43
45	0.0016	0.0078	97,334	38.66
50	0.0023	0.0115	96,578	33.95
55	0.0034	0.0170	95,471	29.31
60	0.0053	0.0263	93,850	24.77
65	0.0089	0.0437	91,378	20.38
70	0.0160	0.0769	87,384	16.19
75	0.0310	0.1437	80,660	12.33
80	0.0618	0.2677	69,073	8.98
85	0.1574	1	50,585	6.35

## WHO LIFE TABLE FOR 1999: SRI LANKA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0202	0.0198	100,000	65.83
1	0.0014	0.0054	98,020	66.16
5	0.0010	0.0048	97,487	62.51
10	0.0008	0.0041	97,018	57.80
15	0.0020	0.0101	96,625	53.02
20	0.0031	0.0152	95,646	48.54
25	0.0034	0.0170	94,196	44.25
30	0.0038	0.0191	92,599	39.97
35	0.0047	0.0234	90,834	35.70
40	0.0063	0.0308	88,709	31.49
45	0.0089	0.0434	85,979	27.41
50	0.0127	0.0616	82,251	23.54
55	0.0177	0.0849	77,185	19.92
60	0.0256	0.1204	70,630	16.54
65	0.0376	0.1720	62,127	13.46
70	0.0576	0.2518	51,443	10.74
75	0.0825	0.3421	38,491	8.51
80	0.1189	0.4582	25,325	6.64
85	0.1945	1	13,720	5.14

### Females

0	0.0148	0.0146	100,000	73.53
1	0.0011	0.0044	98,542	73.62
5	0.0007	0.0035	98,108	69.94
10	0.0006	0.0028	97,762	65.18
15	0.0009	0.0047	97,486	60.35
20	0.0011	0.0054	97,028	55.63
25	0.0012	0.0059	96,508	50.91
30	0.0015	0.0073	95,940	46.20
35	0.0020	0.0101	95,235	41.52
40	0.0030	0.0148	94,276	36.92
45	0.0044	0.0218	92,877	32.44
50	0.0068	0.0333	90,850	28.11
55	0.0095	0.0462	87,822	23.99
60	0.0144	0.0697	83,765	20.03
65	0.0227	0.1075	77,929	16.34
70	0.0379	0.1732	69,553	13.01
75	0.0579	0.2530	57,510	10.21
80	0.0897	0.3664	42,959	7.82
85	0.1695	1	27,221	5.90

## WHO LIFE TABLE FOR 1999: SUDAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0935	0.0878	100,000	52.87
1	0.0082	0.0322	91,223	56.93
5	0.0020	0.0102	88,285	54.77
10	0.0016	0.0082	87,387	50.31
15	0.0021	0.0102	86,672	45.70
20	0.0027	0.0133	85,786	41.15
25	0.0043	0.0214	84,648	36.67
30	0.0063	0.0311	82,833	32.41
35	0.0084	0.0410	80,253	28.38
40	0.0101	0.0494	76,960	24.48
45	0.0138	0.0666	73,156	20.63
50	0.0220	0.1044	68,283	16.92
55	0.0310	0.1440	61,157	13.60
60	0.0564	0.2471	52,353	10.47
65	0.0826	0.3413	39,417	8.08
70	0.1310	0.4886	25,966	6.00
75	0.2033	0.6605	13,280	4.44
80	0.2676	0.7768	4,508	3.50
85	0.3715	1	1,006	2.69

### Females

0	0.0721	0.0686	100,000	54.92
1	0.0095	0.0370	93,136	57.94
5	0.0018	0.0088	89,686	56.11
10	0.0015	0.0073	88,894	51.59
15	0.0021	0.0106	88,243	46.95
20	0.0034	0.0166	87,310	42.42
25	0.0052	0.0257	85,857	38.10
30	0.0060	0.0298	83,651	34.04
35	0.0071	0.0347	81,161	30.01
40	0.0075	0.0369	78,341	26.00
45	0.0107	0.0521	75,452	21.89
50	0.0183	0.0874	71,519	17.96
55	0.0257	0.1208	65,270	14.44
60	0.0492	0.2190	57,385	11.08
65	0.0754	0.3163	44,815	8.49
70	0.1254	0.4727	30,640	6.28
75	0.1862	0.6234	16,156	4.77
80	0.2484	0.7433	6,084	3.77
85	0.3323	1	1,562	3.01



## WHO LIFE TABLE FOR 1999: SURINAME

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0293	0.0285	100,000	68.30
1	0.0015	0.0060	97,146	69.30
5	0.0005	0.0026	96,567	65.71
10	0.0006	0.0030	96,312	60.88
15	0.0018	0.0091	96,024	56.05
20	0.0030	0.0147	95,145	51.55
25	0.0032	0.0159	93,747	47.28
30	0.0035	0.0175	92,257	43.00
35	0.0041	0.0202	90,640	38.72
40	0.0048	0.0237	88,808	34.47
45	0.0064	0.0316	86,699	30.25
50	0.0093	0.0454	83,956	26.16
55	0.0136	0.0656	80,147	22.28
60	0.0208	0.0988	74,887	18.67
65	0.0291	0.1355	67,490	15.44
70	0.0441	0.1978	58,344	12.48
75	0.0635	0.2717	46,800	9.96
80	0.0914	0.3666	34,084	7.81
85	0.1669	1	21,589	5.99

### Females

0	0.0225	0.0221	100,000	73.84
1	0.0014	0.0055	97,794	74.50
5	0.0004	0.0020	97,256	70.91
10	0.0004	0.0020	97,058	66.05
15	0.0007	0.0034	96,864	61.17
20	0.0009	0.0043	96,531	56.38
25	0.0010	0.0051	96,115	51.61
30	0.0014	0.0068	95,627	46.86
35	0.0019	0.0096	94,981	42.16
40	0.0027	0.0135	94,073	37.54
45	0.0041	0.0202	92,805	33.02
50	0.0064	0.0315	90,929	28.65
55	0.0097	0.0473	88,066	24.50
60	0.0157	0.0755	83,903	20.59
65	0.0226	0.1070	77,568	17.07
70	0.0350	0.1603	69,270	13.82
75	0.0521	0.2290	58,163	11.00
80	0.0774	0.3200	44,846	8.57
85	0.1532	1	30,496	6.53

## WHO LIFE TABLE FOR 1999: SWAZILAND

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0534	0.0515	100,000	45.71
1	0.0152	0.0588	94,854	47.17
5	0.0041	0.0202	89,279	46.02
10	0.0027	0.0136	87,479	41.92
15	0.0044	0.0220	86,288	37.46
20	0.0083	0.0408	84,393	33.24
25	0.0161	0.0775	80,949	29.55
30	0.0245	0.1153	74,676	26.82
35	0.0269	0.1260	66,063	25.00
40	0.0271	0.1270	57,741	23.24
45	0.0271	0.1269	50,408	21.26
50	0.0270	0.1263	44,013	18.98
55	0.0277	0.1294	38,453	16.36
60	0.0361	0.1654	33,477	13.42
65	0.0540	0.2373	27,941	10.59
70	0.0874	0.3561	21,310	8.12
75	0.1280	0.4780	13,720	6.29
80	0.1825	0.6114	7,162	4.89
85	0.2524	1	2,783	3.96

### Females

0	0.0480	0.0465	100,000	46.75
1	0.0136	0.0526	95,353	48.02
5	0.0039	0.0194	90,337	46.60
10	0.0026	0.0130	88,583	42.47
15	0.0057	0.0281	87,430	38.00
20	0.0125	0.0608	84,970	34.02
25	0.0224	0.1061	79,805	31.06
30	0.0255	0.1200	71,339	29.45
35	0.0234	0.1107	62,776	28.13
40	0.0213	0.1010	55,828	26.32
45	0.0180	0.0860	50,186	24.00
50	0.0178	0.0854	45,872	21.02
55	0.0211	0.1002	41,955	17.75
60	0.0295	0.1375	37,752	14.44
65	0.0457	0.2046	32,561	11.35
70	0.0763	0.3184	25,898	8.64
75	0.1183	0.4504	17,653	6.55
80	0.1743	0.5927	9,701	5.00
85	0.2550	1	3,951	3.92

## WHO LIFE TABLE FOR 1999: SWEDEN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0038	0.0038	100,000	77.13
1	0.0002	0.0009	99,621	76.42
5	0.0001	0.0005	99,530	72.49
10	0.0001	0.0006	99,476	67.53
15	0.0003	0.0017	99,416	62.57
20	0.0006	0.0028	99,243	57.67
25	0.0007	0.0036	98,963	52.83
30	0.0008	0.0041	98,610	48.01
35	0.0012	0.0058	98,201	43.20
40	0.0017	0.0085	97,634	38.43
45	0.0026	0.0129	96,809	33.74
50	0.0043	0.0212	95,563	29.15
55	0.0065	0.0320	93,533	24.73
60	0.0117	0.0570	90,540	20.46
65	0.0198	0.0945	85,376	16.55
70	0.0321	0.1488	77,305	13.01
75	0.0549	0.2414	65,804	9.85
80	0.0978	0.3928	49,921	7.19
85	0.1915	1	30,310	5.22

### Females

0	0.0038	0.0037	100,000	81.85
1	0.0002	0.0006	99,626	81.16
5	0.0001	0.0005	99,563	77.21
10	0.0001	0.0006	99,510	72.25
15	0.0002	0.0010	99,455	67.29
20	0.0003	0.0014	99,355	62.35
25	0.0003	0.0016	99,215	57.44
30	0.0005	0.0024	99,053	52.53
35	0.0006	0.0032	98,820	47.64
40	0.0010	0.0050	98,503	42.79
45	0.0019	0.0093	98,008	37.99
50	0.0030	0.0149	97,094	33.33
55	0.0045	0.0222	95,650	28.79
60	0.0069	0.0339	93,523	24.39
65	0.0110	0.0535	90,357	20.16
70	0.0190	0.0909	85,524	16.16
75	0.0327	0.1510	77,749	12.52
80	0.0620	0.2685	66,011	9.30
85	0.1471	1	48,284	6.80

## WHO LIFE TABLE FOR 1999: SWITZERLAND

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0049	0.0048	100,000	75.65
1	0.0004	0.0014	99,515	75.02
5	0.0002	0.0010	99,373	71.13
10	0.0002	0.0012	99,273	66.19
15	0.0006	0.0028	99,159	61.27
20	0.0014	0.0069	98,886	56.43
25	0.0014	0.0072	98,200	51.81
30	0.0014	0.0072	97,493	47.16
35	0.0016	0.0079	96,789	42.49
40	0.0021	0.0105	96,022	37.81
45	0.0031	0.0152	95,016	33.18
50	0.0046	0.0230	93,571	28.66
55	0.0072	0.0353	91,421	24.27
60	0.0120	0.0583	88,198	20.07
65	0.0215	0.1020	83,058	16.15
70	0.0354	0.1625	74,586	12.71
75	0.0583	0.2544	62,466	9.69
80	0.1008	0.4025	46,575	7.14
85	0.1901	1	27,828	5.26

### Females

0	0.0048	0.0048	100,000	82.91
1	0.0003	0.0012	99,520	82.31
5	0.0001	0.0005	99,397	78.41
10	0.0002	0.0008	99,348	73.45
15	0.0003	0.0016	99,265	68.51
20	0.0005	0.0023	99,106	63.62
25	0.0006	0.0028	98,882	58.75
30	0.0007	0.0034	98,609	53.91
35	0.0007	0.0036	98,277	49.08
40	0.0012	0.0060	97,923	44.25
45	0.0017	0.0083	97,336	39.50
50	0.0025	0.0125	96,526	34.81
55	0.0039	0.0192	95,324	30.22
60	0.0057	0.0282	93,489	25.77
65	0.0095	0.0464	90,850	21.44
70	0.0149	0.0717	86,630	17.36
75	0.0273	0.1279	80,419	13.51
80	0.0526	0.2325	70,135	10.13
85	0.1344	1	53,827	7.44

## WHO LIFE TABLE FOR 1999: SYRIAN ARAB REPUBLIC

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0330	0.0320	100,000	64.50
1	0.0032	0.0127	96,797	65.63
5	0.0008	0.0041	95,571	62.46
10	0.0007	0.0034	95,177	57.70
15	0.0008	0.0041	94,853	52.89
20	0.0009	0.0046	94,468	48.10
25	0.0012	0.0062	94,032	43.31
30	0.0017	0.0083	93,450	38.56
35	0.0025	0.0126	92,672	33.87
40	0.0035	0.0175	91,502	29.27
45	0.0056	0.0277	89,898	24.75
50	0.0105	0.0511	87,409	20.38
55	0.0173	0.0829	82,942	16.34
60	0.0334	0.1539	76,065	12.59
65	0.0562	0.2465	64,356	9.43
70	0.1058	0.4185	48,491	6.70
75	0.1788	0.6179	28,197	4.72
80	0.2895	0.8397	10,773	3.30
85	0.3992	1	1,726	2.51

### Females

0	0.0271	0.0265	100,000	66.95
1	0.0034	0.0134	97,350	67.77
5	0.0007	0.0034	96,041	64.68
10	0.0005	0.0027	95,717	59.89
15	0.0007	0.0034	95,455	55.04
20	0.0008	0.0039	95,133	50.22
25	0.0010	0.0052	94,764	45.41
30	0.0012	0.0059	94,269	40.63
35	0.0019	0.0093	93,713	35.86
40	0.0023	0.0112	92,845	31.17
45	0.0039	0.0191	91,804	26.50
50	0.0073	0.0357	90,052	21.96
55	0.0111	0.0542	86,839	17.68
60	0.0257	0.1208	82,134	13.55
65	0.0457	0.2050	72,214	10.07
70	0.0926	0.3760	57,409	7.02
75	0.1738	0.6058	35,826	4.75
80	0.3019	0.8602	14,123	3.20
85	0.3992	1	1,974	2.51

## WHO LIFE TABLE FOR 1999: TAJIKISTAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0554	0.0528	100,000	64.95
1	0.0042	0.0168	94,721	67.56
5	0.0014	0.0072	93,129	64.69
10	0.0013	0.0063	92,463	60.14
15	0.0017	0.0084	91,883	55.50
20	0.0022	0.0110	91,114	50.95
25	0.0026	0.0130	90,114	46.49
30	0.0033	0.0162	88,944	42.07
35	0.0040	0.0200	87,503	37.72
40	0.0056	0.0278	85,751	33.44
45	0.0076	0.0374	83,369	29.32
50	0.0112	0.0543	80,255	25.36
55	0.0151	0.0726	75,901	21.67
60	0.0206	0.0980	70,390	18.17
65	0.0279	0.1301	63,489	14.88
70	0.0386	0.1753	55,232	11.73
75	0.0613	0.2636	45,549	8.72
80	0.1067	0.4140	33,541	6.00
85	0.2768	1	19,654	3.61

### Females

0	0.0466	0.0447	100,000	70.33
1	0.0037	0.0149	95,528	72.62
5	0.0019	0.0093	94,109	69.69
10	0.0016	0.0081	93,232	65.32
15	0.0017	0.0084	92,476	60.84
20	0.0018	0.0089	91,702	56.33
25	0.0020	0.0099	90,883	51.82
30	0.0025	0.0126	89,983	47.31
35	0.0028	0.0138	88,845	42.88
40	0.0033	0.0165	87,617	38.45
45	0.0040	0.0197	86,173	34.05
50	0.0060	0.0293	84,474	29.69
55	0.0082	0.0402	81,996	25.51
60	0.0115	0.0560	78,697	21.47
65	0.0171	0.0819	74,290	17.60
70	0.0256	0.1199	68,207	13.95
75	0.0413	0.1860	60,029	10.52
80	0.0685	0.2889	48,861	7.39
85	0.2244	1	34,745	4.46

## WHO LIFE TABLE FOR 1999: THAILAND

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0335	0.0325	100,000	66.21
1	0.0018	0.0073	96,751	67.43
5	0.0013	0.0062	96,043	63.91
10	0.0010	0.0051	95,443	59.30
15	0.0025	0.0124	94,953	54.59
20	0.0036	0.0177	93,776	50.24
25	0.0038	0.0189	92,119	46.10
30	0.0041	0.0203	90,382	41.94
35	0.0049	0.0240	88,543	37.76
40	0.0062	0.0304	86,416	33.63
45	0.0084	0.0412	83,786	29.61
50	0.0115	0.0560	80,338	25.77
55	0.0154	0.0741	75,835	22.15
60	0.0213	0.1013	70,212	18.72
65	0.0303	0.1405	63,103	15.55
70	0.0453	0.2026	54,240	12.69
75	0.0628	0.2691	43,253	10.31
80	0.0883	0.3565	31,611	8.24
85	0.1532	1	20,341	6.53

### Females

0	0.0212	0.0208	100,000	70.37
1	0.0015	0.0061	97,923	70.86
5	0.0010	0.0049	97,322	67.29
10	0.0008	0.0039	96,846	62.61
15	0.0013	0.0065	96,470	57.85
20	0.0015	0.0073	95,847	53.21
25	0.0016	0.0080	95,144	48.58
30	0.0020	0.0099	94,383	43.95
35	0.0027	0.0135	93,445	39.37
40	0.0040	0.0198	92,180	34.87
45	0.0058	0.0287	90,359	30.53
50	0.0088	0.0432	87,763	26.35
55	0.0121	0.0587	83,974	22.43
60	0.0181	0.0864	79,045	18.67
65	0.0276	0.1291	72,217	15.20
70	0.0445	0.1995	62,896	12.09
75	0.0663	0.2819	50,346	9.51
80	0.0997	0.3928	36,153	7.32
85	0.1796	1	21,953	5.57

WHO LIFE TABLE FOR 1999: THE FORMER YUGOSLAV REPUBLIC OF MACEDONIA

**Males**

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0238	0.0233	100,000	69.78
1	0.0009	0.0038	97,667	70.45
5	0.0004	0.0018	97,299	66.71
10	0.0002	0.0012	97,121	61.82
15	0.0007	0.0034	97,002	56.90
20	0.0008	0.0040	96,672	52.08
25	0.0006	0.0028	96,283	47.28
30	0.0012	0.0061	96,015	42.41
35	0.0017	0.0086	95,428	37.65
40	0.0036	0.0178	94,609	32.96
45	0.0050	0.0248	92,928	28.51
50	0.0089	0.0434	90,626	24.17
55	0.0137	0.0663	86,696	20.15
60	0.0209	0.0994	80,950	16.40
65	0.0356	0.1637	72,907	12.94
70	0.0573	0.2507	60,976	9.98
75	0.0868	0.3568	45,687	7.48
80	0.1600	0.5714	29,388	5.25
85	0.2558	1	12,595	3.91

**Females**

0	0.0196	0.0192	100,000	74.10
1	0.0009	0.0036	98,077	74.55
5	0.0003	0.0013	97,726	70.81
10	0.0002	0.0009	97,599	65.90
15	0.0003	0.0013	97,515	60.96
20	0.0005	0.0023	97,388	56.03
25	0.0003	0.0017	97,165	51.15
30	0.0009	0.0046	96,996	46.24
35	0.0010	0.0049	96,554	41.44
40	0.0018	0.0088	96,077	36.63
45	0.0030	0.0149	95,234	31.93
50	0.0048	0.0239	93,813	27.38
55	0.0073	0.0357	91,569	22.99
60	0.0129	0.0624	88,296	18.75
65	0.0214	0.1014	82,786	14.83
70	0.0408	0.1851	74,392	11.22
75	0.0733	0.3098	60,625	8.20
80	0.1322	0.4967	41,844	5.76
85	0.2510	1	21,058	3.98



## WHO LIFE TABLE FOR 1999: TOGO

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0854	0.0806	100,000	48.84
1	0.0174	0.0669	91,942	52.10
5	0.0046	0.0226	85,795	51.72
10	0.0030	0.0149	83,858	47.85
15	0.0044	0.0215	82,607	43.54
20	0.0069	0.0340	80,830	39.44
25	0.0114	0.0553	78,081	35.74
30	0.0152	0.0733	73,767	32.69
35	0.0170	0.0817	68,362	30.07
40	0.0177	0.0848	62,778	27.53
45	0.0183	0.0877	57,457	24.84
50	0.0186	0.0890	52,420	21.99
55	0.0211	0.1003	47,754	18.90
60	0.0272	0.1274	42,967	15.72
65	0.0407	0.1844	37,492	12.65
70	0.0619	0.2667	30,578	9.96
75	0.0927	0.3720	22,424	7.71
80	0.1341	0.4924	14,083	5.89
85	0.2292	1	7,149	4.36

### Females

0	0.0698	0.0665	100,000	50.77
1	0.0154	0.0593	93,348	53.36
5	0.0044	0.0219	87,808	52.63
10	0.0029	0.0144	85,886	48.75
15	0.0046	0.0229	84,645	44.43
20	0.0087	0.0425	82,711	40.41
25	0.0138	0.0668	79,199	37.09
30	0.0162	0.0780	73,909	34.56
35	0.0153	0.0736	68,147	32.28
40	0.0144	0.0696	63,134	29.64
45	0.0128	0.0619	58,742	26.67
50	0.0136	0.0659	55,107	23.26
55	0.0168	0.0808	51,475	19.73
60	0.0239	0.1126	47,316	16.24
65	0.0365	0.1670	41,989	12.99
70	0.0582	0.2527	34,978	10.10
75	0.0895	0.3616	26,139	7.70
80	0.1387	0.5046	16,688	5.73
85	0.2364	1	8,267	4.23

## WHO LIFE TABLE FOR 1999: TONGA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0211	0.0207	100,000	68.27
1	0.0021	0.0083	97,927	68.72
5	0.0007	0.0037	97,118	65.28
10	0.0006	0.0029	96,760	60.51
15	0.0010	0.0048	96,475	55.68
20	0.0013	0.0063	96,010	50.94
25	0.0012	0.0062	95,406	46.25
30	0.0017	0.0085	94,815	41.52
35	0.0021	0.0106	94,007	36.85
40	0.0030	0.0150	93,012	32.22
45	0.0048	0.0238	91,621	27.67
50	0.0080	0.0394	89,437	23.29
55	0.0134	0.0649	85,913	19.14
60	0.0235	0.1108	80,339	15.29
65	0.0394	0.1795	71,437	11.89
70	0.0676	0.2892	58,616	8.94
75	0.1126	0.4393	41,667	6.56
80	0.1797	0.6199	23,363	4.74
85	0.2941	1	8,880	3.40

### Females

0	0.0160	0.0158	100,000	72.84
1	0.0018	0.0071	98,419	73.01
5	0.0004	0.0022	97,718	69.52
10	0.0004	0.0018	97,508	64.67
15	0.0006	0.0032	97,335	59.78
20	0.0009	0.0044	97,019	54.96
25	0.0008	0.0042	96,590	50.20
30	0.0010	0.0051	96,187	45.40
35	0.0012	0.0060	95,694	40.62
40	0.0018	0.0088	95,121	35.85
45	0.0028	0.0141	94,283	31.14
50	0.0048	0.0235	92,949	26.55
55	0.0078	0.0382	90,768	22.13
60	0.0141	0.0680	87,297	17.91
65	0.0248	0.1169	81,363	14.04
70	0.0472	0.2110	71,848	10.56
75	0.0836	0.3459	56,692	7.72
80	0.1429	0.5265	37,084	5.48
85	0.2633	1	17,557	3.80

## WHO LIFE TABLE FOR 1999: TRINIDAD AND TOBAGO

### Males

$x$	${}_nM_x$	${}_nq_x$	$l_x$	$e_x$
0	0.0081	0.0081	100,000	68.69
1	0.0004	0.0018	99,194	68.24
5	0.0002	0.0012	99,017	64.36
10	0.0002	0.0011	98,900	59.43
15	0.0006	0.0031	98,793	54.50
20	0.0011	0.0055	98,486	49.66
25	0.0019	0.0095	97,941	44.92
30	0.0025	0.0124	97,012	40.33
35	0.0028	0.0138	95,810	35.80
40	0.0045	0.0223	94,491	31.27
45	0.0064	0.0313	92,380	26.92
50	0.0117	0.0567	89,485	22.71
55	0.0175	0.0840	84,415	18.93
60	0.0289	0.1345	77,328	15.43
65	0.0407	0.1848	66,924	12.44
70	0.0632	0.2729	54,556	9.70
75	0.0926	0.3758	39,667	7.40
80	0.1602	0.5719	24,759	5.35
85	0.2404	1	10,601	4.16

### Females

0	0.0055	0.0054	100,000	73.42
1	0.0004	0.0016	99,456	72.82
5	0.0002	0.0010	99,293	68.94
10	0.0002	0.0011	99,193	64.01
15	0.0005	0.0027	99,079	59.08
20	0.0006	0.0031	98,807	54.23
25	0.0010	0.0049	98,505	49.39
30	0.0013	0.0066	98,019	44.63
35	0.0017	0.0086	97,369	39.91
40	0.0027	0.0136	96,529	35.23
45	0.0041	0.0204	95,214	30.68
50	0.0069	0.0339	93,273	26.27
55	0.0112	0.0546	90,108	22.11
60	0.0203	0.0964	85,186	18.24
65	0.0264	0.1240	76,972	14.92
70	0.0423	0.1913	67,430	11.68
75	0.0696	0.2963	54,529	8.85
80	0.1184	0.4568	38,370	6.52
85	0.2041	1	20,842	4.90

## WHO LIFE TABLE FOR 1999: TUNISIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0278	0.0271	100,000	66.76
1	0.0027	0.0105	97,288	67.62
5	0.0007	0.0034	96,263	64.33
10	0.0006	0.0029	95,940	59.53
15	0.0007	0.0034	95,657	54.70
20	0.0008	0.0038	95,331	49.88
25	0.0010	0.0049	94,972	45.06
30	0.0013	0.0065	94,504	40.27
35	0.0021	0.0103	93,887	35.52
40	0.0029	0.0143	92,919	30.86
45	0.0043	0.0212	91,592	26.27
50	0.0080	0.0392	89,654	21.79
55	0.0132	0.0641	86,136	17.58
60	0.0267	0.1254	80,613	13.61
65	0.0457	0.2045	70,508	10.20
70	0.0927	0.3736	56,086	7.19
75	0.1647	0.5732	35,133	5.05
80	0.2516	0.7490	14,993	3.68
85	0.3577	1	3,763	2.80

### Females

0	0.0208	0.0204	100,000	68.15
1	0.0028	0.0111	97,957	68.57
5	0.0006	0.0030	96,866	65.32
10	0.0005	0.0024	96,577	60.51
15	0.0006	0.0031	96,341	55.65
20	0.0007	0.0034	96,046	50.82
25	0.0010	0.0048	95,720	45.98
30	0.0011	0.0053	95,263	41.19
35	0.0017	0.0083	94,755	36.40
40	0.0020	0.0101	93,967	31.68
45	0.0035	0.0173	93,020	26.98
50	0.0067	0.0330	91,409	22.41
55	0.0103	0.0501	88,390	18.09
60	0.0234	0.1107	83,961	13.91
65	0.0424	0.1912	74,668	10.33
70	0.0936	0.3762	60,394	7.19
75	0.1625	0.5679	37,671	5.09
80	0.2552	0.7554	16,280	3.68
85	0.3385	1	3,981	2.95

## WHO LIFE TABLE FOR 1999: TURKEY

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0343	0.0333	100,000	69.48
1	0.0030	0.0119	96,675	70.87
5	0.0010	0.0048	95,521	67.71
10	0.0008	0.0042	95,064	63.02
15	0.0011	0.0057	94,665	58.28
20	0.0015	0.0075	94,129	53.59
25	0.0018	0.0091	93,421	48.98
30	0.0024	0.0117	92,569	44.41
35	0.0029	0.0143	91,482	39.91
40	0.0041	0.0202	90,174	35.45
45	0.0056	0.0275	88,352	31.13
50	0.0084	0.0413	85,924	26.94
55	0.0118	0.0575	82,379	22.99
60	0.0165	0.0794	77,640	19.24
65	0.0240	0.1132	71,472	15.69
70	0.0348	0.1598	63,381	12.38
75	0.0551	0.2406	53,256	9.27
80	0.0923	0.3694	40,444	6.46
85	0.2562	1	25,505	3.90

### Females

0	0.0310	0.0301	100,000	70.14
1	0.0031	0.0122	96,986	71.32
5	0.0016	0.0082	95,802	68.18
10	0.0015	0.0073	95,020	63.72
15	0.0015	0.0077	94,329	59.17
20	0.0016	0.0082	93,604	54.61
25	0.0019	0.0095	92,835	50.04
30	0.0025	0.0124	91,952	45.49
35	0.0029	0.0143	90,808	41.04
40	0.0034	0.0170	89,510	36.59
45	0.0044	0.0218	87,992	32.18
50	0.0066	0.0323	86,075	27.84
55	0.0093	0.0454	83,292	23.69
60	0.0138	0.0667	79,514	19.70
65	0.0204	0.0970	74,208	15.93
70	0.0325	0.1500	67,009	12.37
75	0.0538	0.2353	56,955	9.13
80	0.0903	0.3630	43,554	6.22
85	0.2891	1	27,742	3.46

## WHO LIFE TABLE FOR 1999: TURKMENISTAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0570	0.0543	100,000	60.78
1	0.0076	0.0299	94,574	63.26
5	0.0009	0.0046	91,743	61.16
10	0.0007	0.0036	91,320	56.44
15	0.0013	0.0064	90,992	51.63
20	0.0018	0.0090	90,412	46.95
25	0.0022	0.0110	89,594	42.35
30	0.0030	0.0148	88,605	37.80
35	0.0043	0.0212	87,290	33.33
40	0.0070	0.0345	85,444	28.99
45	0.0104	0.0505	82,498	24.94
50	0.0136	0.0657	78,329	21.14
55	0.0256	0.1204	73,180	17.45
60	0.0334	0.1542	64,366	14.49
65	0.0537	0.2368	54,442	11.68
70	0.0691	0.2946	41,551	9.53
75	0.0906	0.3694	29,311	7.46
80	0.1561	0.5613	18,484	5.37
85	0.2476	1	8,109	4.04

### Females

0	0.0503	0.0481	100,000	65.51
1	0.0078	0.0307	95,188	67.81
5	0.0007	0.0035	92,266	65.91
10	0.0005	0.0026	91,939	61.14
15	0.0009	0.0044	91,697	56.29
20	0.0012	0.0057	91,291	51.53
25	0.0015	0.0076	90,767	46.81
30	0.0018	0.0091	90,079	42.15
35	0.0022	0.0111	89,257	37.52
40	0.0034	0.0167	88,262	32.91
45	0.0045	0.0223	86,789	28.43
50	0.0078	0.0383	84,850	24.02
55	0.0146	0.0703	81,598	19.88
60	0.0217	0.1028	75,861	16.19
65	0.0377	0.1723	68,062	12.76
70	0.0581	0.2537	56,334	9.90
75	0.0887	0.3630	42,042	7.41
80	0.1620	0.5765	26,779	5.21
85	0.2562	1	11,341	3.90

## WHO LIFE TABLE FOR 1999: TUVALU

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0334	0.0324	100,000	63.65
1	0.0032	0.0129	96,756	64.78
5	0.0011	0.0057	95,510	61.60
10	0.0009	0.0046	94,963	56.95
15	0.0015	0.0075	94,528	52.20
20	0.0020	0.0097	93,824	47.57
25	0.0019	0.0095	92,913	43.01
30	0.0026	0.0131	92,028	38.40
35	0.0032	0.0161	90,827	33.88
40	0.0046	0.0226	89,365	29.39
45	0.0072	0.0356	87,347	25.01
50	0.0119	0.0577	84,240	20.84
55	0.0193	0.0922	79,381	16.96
60	0.0335	0.1546	72,063	13.43
65	0.0533	0.2350	60,923	10.43
70	0.0891	0.3644	46,605	7.87
75	0.1369	0.5099	29,622	5.94
80	0.1943	0.6538	14,518	4.53
85	0.2985	1	5,025	3.35

### Females

0	0.0209	0.0206	100,000	65.74
1	0.0029	0.0117	97,945	66.12
5	0.0007	0.0037	96,798	62.88
10	0.0006	0.0031	96,438	58.11
15	0.0012	0.0058	96,138	53.28
20	0.0016	0.0081	95,584	48.58
25	0.0016	0.0078	94,811	43.95
30	0.0020	0.0098	94,071	39.28
35	0.0024	0.0117	93,152	34.64
40	0.0036	0.0176	92,061	30.02
45	0.0059	0.0291	90,438	25.52
50	0.0102	0.0497	87,808	21.21
55	0.0173	0.0830	83,441	17.18
60	0.0309	0.1435	76,518	13.51
65	0.0536	0.2364	65,539	10.36
70	0.0907	0.3696	50,045	7.79
75	0.1371	0.5104	31,548	5.89
80	0.1991	0.6647	15,445	4.43
85	0.3063	1	5,179	3.26

## WHO LIFE TABLE FOR 1999: UGANDA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0923	0.0867	100,000	41.81
1	0.0226	0.0856	91,327	44.75
5	0.0060	0.0294	83,505	44.80
10	0.0041	0.0201	81,048	41.08
15	0.0059	0.0291	79,419	36.87
20	0.0099	0.0481	77,105	32.90
25	0.0175	0.0839	73,396	29.44
30	0.0232	0.1098	67,239	26.90
35	0.0258	0.1214	59,855	24.91
40	0.0279	0.1305	52,590	23.01
45	0.0276	0.1292	45,728	21.09
50	0.0265	0.1245	39,820	18.85
55	0.0299	0.1390	34,865	16.17
60	0.0389	0.1775	30,020	13.38
65	0.0572	0.2496	24,693	10.72
70	0.0832	0.3421	18,528	8.47
75	0.1188	0.4518	12,190	6.63
80	0.1675	0.5766	6,683	5.16
85	0.2468	1	2,830	4.05

### Females

0	0.0833	0.0787	100,000	42.41
1	0.0212	0.0806	92,125	45.01
5	0.0062	0.0306	84,703	44.82
10	0.0041	0.0201	82,107	41.15
15	0.0070	0.0342	80,456	36.95
20	0.0139	0.0670	77,706	33.17
25	0.0221	0.1049	72,498	30.37
30	0.0262	0.1228	64,891	28.64
35	0.0237	0.1118	56,924	27.29
40	0.0224	0.1060	50,558	25.42
45	0.0199	0.0947	45,200	23.13
50	0.0196	0.0936	40,917	20.29
55	0.0244	0.1149	37,086	17.13
60	0.0334	0.1541	32,825	14.03
65	0.0512	0.2263	27,766	11.13
70	0.0791	0.3281	21,483	8.67
75	0.1159	0.4434	14,434	6.73
80	0.1632	0.5664	8,034	5.22
85	0.2479	1	3,483	4.03



## WHO LIFE TABLE FOR 1999: UKRAINE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0129	0.0127	100,000	64.37
1	0.0009	0.0037	98,725	64.20
5	0.0004	0.0022	98,364	60.43
10	0.0004	0.0021	98,150	55.55
15	0.0011	0.0054	97,947	50.66
20	0.0022	0.0110	97,418	45.93
25	0.0029	0.0142	96,349	41.41
30	0.0041	0.0203	94,978	36.97
35	0.0058	0.0284	93,047	32.69
40	0.0084	0.0410	90,403	28.57
45	0.0123	0.0597	86,695	24.68
50	0.0171	0.0821	81,515	21.09
55	0.0250	0.1177	74,826	17.75
60	0.0338	0.1557	66,021	14.79
65	0.0493	0.2196	55,740	12.06
70	0.0674	0.2884	43,500	9.74
75	0.0940	0.3804	30,955	7.68
80	0.1442	0.5300	19,179	5.86
85	0.2150	1	9,015	4.65

### Females

0	0.0094	0.0093	100,000	74.38
1	0.0008	0.0030	99,066	74.08
5	0.0003	0.0014	98,765	70.30
10	0.0003	0.0013	98,627	65.40
15	0.0005	0.0025	98,499	60.48
20	0.0006	0.0032	98,250	55.63
25	0.0009	0.0044	97,935	50.80
30	0.0011	0.0057	97,508	46.01
35	0.0016	0.0080	96,952	41.26
40	0.0024	0.0118	96,181	36.57
45	0.0038	0.0190	95,045	31.98
50	0.0057	0.0282	93,236	27.55
55	0.0091	0.0443	90,608	23.27
60	0.0135	0.0655	86,590	19.24
65	0.0227	0.1073	80,919	15.41
70	0.0380	0.1734	72,237	11.96
75	0.0646	0.2780	59,710	8.95
80	0.1161	0.4499	43,112	6.43
85	0.2154	1	23,716	4.64

## WHO LIFE TABLE FOR 1999: UNITED ARAB EMIRATES

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0166	0.0164	100,000	71.96
1	0.0008	0.0030	98,363	72.16
5	0.0005	0.0024	98,066	68.37
10	0.0004	0.0021	97,831	63.53
15	0.0007	0.0036	97,629	58.65
20	0.0007	0.0037	97,273	53.86
25	0.0007	0.0034	96,917	49.05
30	0.0008	0.0042	96,585	44.21
35	0.0011	0.0055	96,183	39.38
40	0.0016	0.0080	95,657	34.58
45	0.0031	0.0155	94,894	29.84
50	0.0062	0.0307	93,419	25.27
55	0.0099	0.0483	90,548	21.00
60	0.0193	0.0920	86,177	16.93
65	0.0294	0.1366	78,246	13.40
70	0.0530	0.2327	67,556	10.13
75	0.0898	0.3628	51,835	7.47
80	0.1482	0.5293	33,029	5.39
85	0.2586	1	15,548	3.87

### Females

0	0.0137	0.0136	100,000	75.54
1	0.0006	0.0025	98,643	75.58
5	0.0003	0.0014	98,398	71.76
10	0.0002	0.0012	98,256	66.86
15	0.0002	0.0012	98,139	61.94
20	0.0003	0.0013	98,021	57.01
25	0.0004	0.0021	97,895	52.08
30	0.0004	0.0021	97,692	47.18
35	0.0008	0.0040	97,488	42.28
40	0.0012	0.0058	97,100	37.44
45	0.0021	0.0105	96,540	32.64
50	0.0043	0.0215	95,530	27.96
55	0.0069	0.0337	93,478	23.52
60	0.0154	0.0740	90,325	19.25
65	0.0225	0.1064	83,638	15.59
70	0.0425	0.1912	74,741	12.15
75	0.0586	0.2537	60,451	9.46
80	0.0968	0.3838	45,113	6.87
85	0.2117	1	27,799	4.72

## WHO LIFE TABLE FOR 1999: UNITED KINGDOM

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0060	0.0059	100,000	74.69
1	0.0003	0.0011	99,407	74.14
5	0.0001	0.0007	99,294	70.22
10	0.0002	0.0009	99,224	65.27
15	0.0006	0.0029	99,133	60.33
20	0.0009	0.0044	98,847	55.49
25	0.0009	0.0044	98,410	50.73
30	0.0010	0.0049	97,978	45.94
35	0.0012	0.0060	97,502	41.16
40	0.0020	0.0098	96,918	36.39
45	0.0031	0.0152	95,972	31.72
50	0.0050	0.0248	94,514	27.17
55	0.0089	0.0436	92,172	22.80
60	0.0149	0.0719	88,154	18.73
65	0.0259	0.1216	81,818	14.98
70	0.0438	0.1976	71,868	11.71
75	0.0689	0.2940	57,669	8.98
80	0.1121	0.4379	40,716	6.67
85	0.2030	1	22,888	4.93

### Females

0	0.0047	0.0047	100,000	79.73
1	0.0002	0.0009	99,531	79.10
5	0.0001	0.0005	99,447	75.17
10	0.0001	0.0006	99,395	70.21
15	0.0003	0.0013	99,334	65.25
20	0.0003	0.0015	99,205	60.33
25	0.0003	0.0017	99,054	55.42
30	0.0005	0.0023	98,890	50.51
35	0.0008	0.0039	98,658	45.62
40	0.0012	0.0062	98,268	40.79
45	0.0020	0.0100	97,662	36.03
50	0.0032	0.0161	96,689	31.36
55	0.0053	0.0262	95,135	26.84
60	0.0089	0.0434	92,642	22.49
65	0.0152	0.0734	88,620	18.40
70	0.0264	0.1240	82,115	14.66
75	0.0430	0.1942	71,930	11.38
80	0.0750	0.3159	57,964	8.52
85	0.1588	1	39,652	6.30

## WHO LIFE TABLE FOR 1999: UNITED REP. OF TANZANIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0888	0.0836	100,000	44.36
1	0.0210	0.0800	91,640	47.38
5	0.0055	0.0272	84,313	47.36
10	0.0037	0.0183	82,017	43.62
15	0.0053	0.0259	80,516	39.38
20	0.0086	0.0422	78,427	35.36
25	0.0147	0.0710	75,117	31.81
30	0.0204	0.0971	69,787	29.05
35	0.0218	0.1035	63,010	26.91
40	0.0231	0.1090	56,487	24.73
45	0.0236	0.1115	50,331	22.44
50	0.0241	0.1136	44,718	19.95
55	0.0262	0.1229	39,641	17.18
60	0.0344	0.1584	34,771	14.24
65	0.0501	0.2222	29,261	11.45
70	0.0748	0.3132	22,760	9.02
75	0.1071	0.4171	15,631	7.04
80	0.1566	0.5503	9,112	5.39
85	0.2397	1	4,097	4.17

### Females

0	0.0851	0.0803	100,000	45.58
1	0.0192	0.0735	91,971	48.53
5	0.0054	0.0269	85,206	48.25
10	0.0036	0.0179	82,919	44.52
15	0.0058	0.0284	81,436	40.28
20	0.0115	0.0558	79,126	36.38
25	0.0181	0.0867	74,711	33.39
30	0.0213	0.1013	68,236	31.32
35	0.0202	0.0963	61,325	29.57
40	0.0182	0.0870	55,422	27.45
45	0.0162	0.0780	50,597	24.83
50	0.0169	0.0811	46,649	21.72
55	0.0203	0.0966	42,867	18.41
60	0.0284	0.1325	38,725	15.11
65	0.0428	0.1928	33,595	12.04
70	0.0694	0.2940	27,118	9.33
75	0.1021	0.4018	19,147	7.22
80	0.1497	0.5330	11,454	5.48
85	0.2430	1	5,349	4.12

## WHO LIFE TABLE FOR 1999: UNITED STATES OF AMERICA

### Males

<b>x</b>	<b><math>{}_nM_x</math></b>	<b><math>{}_nq_x</math></b>	<b><math>l_x</math></b>	<b><math>e_x</math></b>
0	0.0069	0.0068	100,000	73.80
1	0.0004	0.0014	99,318	73.31
5	0.0002	0.0009	99,175	69.41
10	0.0002	0.0012	99,081	64.48
15	0.0010	0.0048	98,958	59.55
20	0.0013	0.0066	98,482	54.83
25	0.0014	0.0069	97,829	50.18
30	0.0018	0.0089	97,158	45.51
35	0.0023	0.0115	96,295	40.89
40	0.0031	0.0155	95,191	36.34
45	0.0044	0.0216	93,712	31.87
50	0.0066	0.0322	91,688	27.52
55	0.0102	0.0496	88,732	23.35
60	0.0167	0.0800	84,332	19.44
65	0.0251	0.1182	77,589	15.92
70	0.0394	0.1795	68,419	12.71
75	0.0595	0.2590	56,139	9.95
80	0.0963	0.3881	41,597	7.55
85	0.1738	1	25,455	5.75

### Females

0	0.0063	0.0063	100,000	79.65
1	0.0003	0.0013	99,374	79.16
5	0.0002	0.0008	99,246	75.26
10	0.0002	0.0009	99,168	70.31
15	0.0004	0.0021	99,080	65.37
20	0.0005	0.0023	98,875	60.50
25	0.0006	0.0030	98,648	55.64
30	0.0008	0.0041	98,357	50.79
35	0.0012	0.0058	97,957	45.99
40	0.0016	0.0082	97,393	41.24
45	0.0025	0.0122	96,595	36.56
50	0.0040	0.0197	95,414	31.98
55	0.0062	0.0306	93,532	27.58
60	0.0101	0.0495	90,670	23.37
65	0.0153	0.0735	86,186	19.45
70	0.0243	0.1144	79,852	15.80
75	0.0379	0.1733	70,715	12.52
80	0.0641	0.2762	58,460	9.62
85	0.1363	1	42,315	7.33

## WHO LIFE TABLE FOR 1999: URUGUAY

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0163	0.0161	100,000	70.60
1	0.0010	0.0038	98,393	70.75
5	0.0003	0.0017	98,015	67.02
10	0.0004	0.0020	97,846	62.13
15	0.0012	0.0062	97,652	57.25
20	0.0021	0.0103	97,047	52.59
25	0.0023	0.0116	96,047	48.11
30	0.0026	0.0132	94,937	43.64
35	0.0032	0.0157	93,688	39.19
40	0.0038	0.0189	92,221	34.77
45	0.0053	0.0261	90,475	30.40
50	0.0079	0.0388	88,116	26.14
55	0.0121	0.0587	84,695	22.10
60	0.0193	0.0919	79,728	18.32
65	0.0284	0.1325	72,405	14.92
70	0.0453	0.2028	62,809	11.83
75	0.0684	0.2896	50,072	9.22
80	0.1030	0.4029	35,571	7.03
85	0.1917	1	21,238	5.22

### Females

0	0.0126	0.0125	100,000	77.73
1	0.0008	0.0032	98,754	77.71
5	0.0002	0.0012	98,438	73.96
10	0.0002	0.0012	98,319	69.04
15	0.0004	0.0020	98,201	64.12
20	0.0005	0.0026	98,003	59.25
25	0.0006	0.0031	97,753	54.39
30	0.0008	0.0042	97,450	49.55
35	0.0011	0.0057	97,044	44.75
40	0.0017	0.0084	96,490	39.99
45	0.0026	0.0130	95,674	35.31
50	0.0039	0.0194	94,429	30.75
55	0.0065	0.0318	92,593	26.31
60	0.0103	0.0503	89,651	22.09
65	0.0150	0.0721	85,140	18.13
70	0.0232	0.1094	79,000	14.34
75	0.0417	0.1879	70,359	10.81
80	0.0738	0.3077	57,136	7.77
85	0.1924	1	39,555	5.20

## WHO LIFE TABLE FOR 1999: UZBEKISTAN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0332	0.0322	100,000	65.77
1	0.0041	0.0162	96,776	66.95
5	0.0007	0.0037	95,209	64.03
10	0.0006	0.0031	94,858	59.26
15	0.0010	0.0049	94,562	54.43
20	0.0013	0.0066	94,102	49.69
25	0.0017	0.0085	93,483	45.00
30	0.0023	0.0115	92,684	40.37
35	0.0031	0.0151	91,621	35.81
40	0.0056	0.0275	90,234	31.32
45	0.0069	0.0341	87,751	27.13
50	0.0113	0.0549	84,758	23.00
55	0.0182	0.0872	80,106	19.19
60	0.0280	0.1309	73,120	15.79
65	0.0449	0.2020	63,551	12.79
70	0.0622	0.2691	50,711	10.40
75	0.0830	0.3436	37,064	8.30
80	0.1309	0.4930	24,330	6.34
85	0.1972	1	12,334	5.07

### Females

0	0.0244	0.0238	100,000	71.24
1	0.0037	0.0146	97,617	71.97
5	0.0005	0.0026	96,196	69.01
10	0.0004	0.0022	95,948	64.19
15	0.0007	0.0037	95,741	59.32
20	0.0010	0.0050	95,391	54.53
25	0.0010	0.0052	94,917	49.79
30	0.0015	0.0073	94,423	45.04
35	0.0019	0.0094	93,736	40.35
40	0.0028	0.0139	92,851	35.71
45	0.0038	0.0186	91,559	31.18
50	0.0061	0.0300	89,856	26.72
55	0.0108	0.0525	87,160	22.47
60	0.0179	0.0858	82,586	18.57
65	0.0286	0.1336	75,503	15.08
70	0.0446	0.2005	65,417	12.02
75	0.0645	0.2779	52,300	9.41
80	0.1069	0.4216	37,767	7.07
85	0.1851	1	21,843	5.40

## WHO LIFE TABLE FOR 1999: VANUATU

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0481	0.0461	100,000	58.74
1	0.0049	0.0192	95,388	60.57
5	0.0017	0.0086	93,556	57.73
10	0.0014	0.0069	92,750	53.21
15	0.0023	0.0113	92,110	48.56
20	0.0030	0.0147	91,073	44.08
25	0.0029	0.0144	89,736	39.70
30	0.0040	0.0198	88,443	35.25
35	0.0049	0.0244	86,695	30.91
40	0.0069	0.0340	84,583	26.62
45	0.0109	0.0532	81,703	22.47
50	0.0178	0.0850	77,354	18.59
55	0.0283	0.1322	70,778	15.08
60	0.0459	0.2060	61,422	12.00
65	0.0690	0.2944	48,771	9.47
70	0.1024	0.4075	34,415	7.37
75	0.1457	0.5341	20,391	5.72
80	0.2041	0.6758	9,500	4.42
85	0.2927	1	3,080	3.42

### Females

0	0.0407	0.0393	100,000	63.01
1	0.0046	0.0184	96,075	64.58
5	0.0011	0.0056	94,308	61.76
10	0.0009	0.0046	93,780	57.10
15	0.0017	0.0084	93,346	52.35
20	0.0023	0.0115	92,561	47.77
25	0.0022	0.0108	91,498	43.30
30	0.0027	0.0132	90,509	38.75
35	0.0031	0.0154	89,312	34.23
40	0.0046	0.0225	87,935	29.73
45	0.0073	0.0356	85,956	25.36
50	0.0119	0.0577	82,893	21.20
55	0.0189	0.0902	78,107	17.35
60	0.0322	0.1491	71,059	13.82
65	0.0517	0.2289	60,463	10.80
70	0.0847	0.3496	46,621	8.27
75	0.1246	0.4752	30,321	6.37
80	0.1773	0.6142	15,914	4.87
85	0.2746	1	6,140	3.64



**WHO LIFE TABLE FOR 1999: VENEZUELA, BOLIVARIAN REPUBLIC  
OF**

**Males**

<b>x</b>	<b><math>{}_nM_x</math></b>	<b><math>{}_nq_x</math></b>	<b><math>l_x</math></b>	<b><math>e_x</math></b>
0	0.0184	0.0181	100,000	70.94
1	0.0010	0.0040	98,189	71.25
5	0.0003	0.0016	97,795	67.53
10	0.0004	0.0021	97,638	62.64
15	0.0016	0.0078	97,435	57.76
20	0.0024	0.0117	96,675	53.20
25	0.0021	0.0106	95,542	48.80
30	0.0022	0.0110	94,531	44.29
35	0.0025	0.0127	93,487	39.76
40	0.0031	0.0156	92,303	35.24
45	0.0041	0.0204	90,864	30.75
50	0.0066	0.0327	89,011	26.34
55	0.0108	0.0527	86,101	22.15
60	0.0172	0.0825	81,561	18.24
65	0.0258	0.1213	74,832	14.66
70	0.0418	0.1893	65,752	11.34
75	0.0645	0.2778	53,306	8.40
80	0.1443	0.5303	38,498	5.67
85	0.2355	1	18,081	4.25

**Females**

0	0.0185	0.0182	100,000	76.16
1	0.0011	0.0044	98,182	76.57
5	0.0003	0.0013	97,747	72.90
10	0.0003	0.0014	97,623	67.99
15	0.0005	0.0025	97,483	63.08
20	0.0007	0.0033	97,236	58.24
25	0.0007	0.0036	96,919	53.42
30	0.0009	0.0047	96,574	48.60
35	0.0014	0.0069	96,124	43.82
40	0.0019	0.0096	95,459	39.10
45	0.0027	0.0132	94,543	34.46
50	0.0043	0.0213	93,293	29.89
55	0.0066	0.0326	91,303	25.48
60	0.0110	0.0533	88,326	21.26
65	0.0165	0.0791	83,613	17.32
70	0.0269	0.1260	76,999	13.59
75	0.0415	0.1878	67,298	10.19
80	0.1046	0.4146	54,660	6.96
85	0.1951	1	31,999	5.12

## WHO LIFE TABLE FOR 1999: VIET NAM

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0290	0.0283	100,000	64.65
1	0.0029	0.0115	97,174	65.52
5	0.0010	0.0052	96,052	62.27
10	0.0008	0.0041	95,555	57.58
15	0.0014	0.0068	95,159	52.81
20	0.0018	0.0089	94,515	48.15
25	0.0017	0.0087	93,679	43.56
30	0.0024	0.0120	92,863	38.92
35	0.0030	0.0149	91,749	34.36
40	0.0042	0.0210	90,384	29.84
45	0.0068	0.0333	88,487	25.43
50	0.0112	0.0546	85,539	21.22
55	0.0185	0.0884	80,871	17.30
60	0.0316	0.1464	73,724	13.74
65	0.0511	0.2265	62,928	10.66
70	0.0827	0.3426	48,676	8.05
75	0.1322	0.4968	32,000	5.95
80	0.2039	0.6754	16,101	4.35
85	0.3119	1	5,227	3.21

### Females

0	0.0218	0.0214	100,000	68.64
1	0.0026	0.0103	97,862	69.13
5	0.0006	0.0032	96,856	65.84
10	0.0005	0.0026	96,550	61.04
15	0.0010	0.0048	96,298	56.19
20	0.0013	0.0066	95,839	51.45
25	0.0012	0.0062	95,209	46.77
30	0.0015	0.0077	94,617	42.05
35	0.0018	0.0090	93,892	37.35
40	0.0027	0.0133	93,046	32.67
45	0.0043	0.0215	91,807	28.08
50	0.0073	0.0357	89,836	23.64
55	0.0120	0.0581	86,626	19.42
60	0.0215	0.1020	81,591	15.47
65	0.0372	0.1700	73,265	11.94
70	0.0671	0.2873	60,811	8.87
75	0.1138	0.4429	43,338	6.44
80	0.1881	0.6398	24,145	4.57
85	0.3070	1	8,698	3.26

## WHO LIFE TABLE FOR 1999: YEMEN

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0963	0.0886	100,000	57.10
1	0.0069	0.0272	91,140	61.64
5	0.0017	0.0085	88,660	59.32
10	0.0014	0.0069	87,909	54.81
15	0.0016	0.0081	87,304	50.17
20	0.0018	0.0090	86,599	45.56
25	0.0024	0.0118	85,820	40.95
30	0.0031	0.0154	84,808	36.41
35	0.0046	0.0226	83,499	31.94
40	0.0061	0.0299	81,615	27.62
45	0.0091	0.0446	79,171	23.39
50	0.0157	0.0757	75,641	19.37
55	0.0234	0.1107	69,913	15.75
60	0.0398	0.1811	62,173	12.40
65	0.0586	0.2556	50,913	9.59
70	0.1048	0.4152	37,901	7.02
75	0.1593	0.5696	22,165	5.24
80	0.2381	0.7462	9,540	3.86
85	0.3495	1	2,421	2.86

### Females

0	0.0828	0.0770	100,000	58.24
1	0.0085	0.0333	92,298	62.09
5	0.0016	0.0081	89,226	60.17
10	0.0013	0.0065	88,503	55.64
15	0.0016	0.0079	87,929	50.99
20	0.0018	0.0090	87,232	46.38
25	0.0024	0.0119	86,450	41.77
30	0.0027	0.0132	85,421	37.25
35	0.0041	0.0202	84,295	32.71
40	0.0048	0.0238	82,591	28.33
45	0.0079	0.0389	80,625	23.96
50	0.0141	0.0682	77,491	19.83
55	0.0200	0.0955	72,204	16.10
60	0.0379	0.1732	65,311	12.53
65	0.0578	0.2526	53,996	9.64
70	0.0991	0.3971	40,355	7.05
75	0.1650	0.5841	24,329	5.05
80	0.2576	0.7834	10,117	3.63
85	0.3695	1	2,191	2.71

## WHO LIFE TABLE FOR 1999: YUGOSLAVIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0210	0.0206	100,000	71.64
1	0.0021	0.0082	97,937	72.15
5	0.0007	0.0036	97,131	68.73
10	0.0006	0.0032	96,782	63.97
15	0.0008	0.0042	96,473	59.17
20	0.0011	0.0056	96,071	54.41
25	0.0014	0.0068	95,531	49.70
30	0.0018	0.0090	94,877	45.03
35	0.0023	0.0114	94,028	40.41
40	0.0033	0.0162	92,957	35.85
45	0.0048	0.0235	91,452	31.39
50	0.0072	0.0353	89,299	27.09
55	0.0105	0.0513	86,150	22.99
60	0.0153	0.0736	81,729	19.10
65	0.0224	0.1060	75,714	15.42
70	0.0342	0.1569	67,685	11.96
75	0.0588	0.2545	57,064	8.73
80	0.1160	0.4416	42,540	5.91
85	0.2651	1	23,752	3.77

### Females

0	0.0156	0.0154	100,000	76.57
1	0.0017	0.0066	98,460	76.76
5	0.0009	0.0043	97,807	73.27
10	0.0008	0.0038	97,388	68.57
15	0.0008	0.0042	97,017	63.82
20	0.0009	0.0043	96,612	59.08
25	0.0010	0.0051	96,193	54.33
30	0.0014	0.0068	95,702	49.59
35	0.0015	0.0077	95,051	44.91
40	0.0019	0.0093	94,318	40.24
45	0.0024	0.0120	93,445	35.60
50	0.0036	0.0177	92,328	31.00
55	0.0054	0.0265	90,696	26.51
60	0.0079	0.0387	88,296	22.16
65	0.0125	0.0604	84,877	17.95
70	0.0211	0.0999	79,747	13.95
75	0.0389	0.1765	71,783	10.23
80	0.0737	0.3074	59,115	6.92
85	0.2516	1	40,943	3.97

## WHO LIFE TABLE FOR 1999: ZAMBIA

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.1038	0.0967	100,000	38.01
1	0.0224	0.0851	90,327	41.04
5	0.0054	0.0267	82,642	40.71
10	0.0036	0.0178	80,437	36.76
15	0.0059	0.0289	79,001	32.38
20	0.0115	0.0560	76,719	28.27
25	0.0240	0.1133	72,423	24.80
30	0.0378	0.1728	64,215	22.65
35	0.0408	0.1849	53,119	21.86
40	0.0401	0.1821	43,295	21.25
45	0.0375	0.1716	35,412	20.42
50	0.0338	0.1557	29,336	19.14
55	0.0291	0.1358	24,770	17.20
60	0.0349	0.1604	21,406	14.51
65	0.0475	0.2119	17,972	11.81
70	0.0712	0.3003	14,164	9.32
75	0.1015	0.4000	9,910	7.30
80	0.1471	0.5265	5,946	5.59
85	0.2352	1	2,816	4.25

### Females

0	0.0970	0.0909	100,000	38.96
1	0.0206	0.0785	90,914	41.83
5	0.0049	0.0240	83,778	41.25
10	0.0033	0.0162	81,764	37.21
15	0.0077	0.0376	80,441	32.78
20	0.0198	0.0941	77,416	28.96
25	0.0341	0.1571	70,130	26.71
30	0.0413	0.1871	59,114	26.22
35	0.0350	0.1608	48,052	26.68
40	0.0300	0.1393	40,324	26.32
45	0.0223	0.1055	34,705	25.17
50	0.0197	0.0940	31,044	22.85
55	0.0190	0.0906	28,124	19.96
60	0.0241	0.1136	25,576	16.70
65	0.0338	0.1557	22,669	13.52
70	0.0541	0.2370	19,140	10.56
75	0.0824	0.3382	14,604	8.09
80	0.1271	0.4732	9,665	6.03
85	0.2287	1	5,092	4.37

## WHO LIFE TABLE FOR 1999: ZIMBABWE

### Males

x	$nM_x$	$nq_x$	$l_x$	$e_x$
0	0.0655	0.0626	100,000	40.81
1	0.0164	0.0630	93,737	42.52
5	0.0038	0.0189	87,830	41.27
10	0.0026	0.0127	86,169	37.02
15	0.0047	0.0232	85,074	32.46
20	0.0105	0.0510	83,102	28.17
25	0.0241	0.1135	78,861	24.55
30	0.0395	0.1799	69,914	22.37
35	0.0417	0.1890	57,339	21.73
40	0.0412	0.1867	46,502	21.21
45	0.0382	0.1744	37,821	20.51
50	0.0330	0.1524	31,225	19.31
55	0.0279	0.1304	26,467	17.34
60	0.0320	0.1481	23,015	14.56
65	0.0463	0.2072	19,606	11.66
70	0.0714	0.3010	15,544	9.07
75	0.1079	0.4196	10,865	6.94
80	0.1595	0.5575	6,305	5.26
85	0.2510	1	2,790	3.98

### Females

0	0.0563	0.0542	100,000	39.99
1	0.0161	0.0622	94,583	41.26
5	0.0038	0.0189	88,701	39.89
10	0.0026	0.0127	87,028	35.61
15	0.0075	0.0368	85,921	31.03
20	0.0206	0.0978	82,760	27.12
25	0.0365	0.1671	74,669	24.79
30	0.0456	0.2046	62,190	24.26
35	0.0382	0.1744	49,465	24.86
40	0.0318	0.1472	40,839	24.59
45	0.0239	0.1127	34,827	23.40
50	0.0215	0.1021	30,902	21.05
55	0.0214	0.1016	27,749	18.16
60	0.0273	0.1279	24,929	14.93
65	0.0419	0.1893	21,739	11.76
70	0.0703	0.2972	17,623	8.93
75	0.1121	0.4320	12,386	6.70
80	0.1727	0.5889	7,035	5.00
85	0.2585	1	2,892	3.87