The United Republic of Tanzania

Mortality and Health

National Bureau of Statistics
Ministry of Finance
Dar es Salaam

and

Office of Chief Government Statistician
Ministry of State, President Office, State
House and Good Governance

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UNITED REPUBLIC OF TANZANIA, ADMINISTRATIVE BOUNDARIES

Foreword

The 2012 Population and Housing Census (PHC) for the United Republic of Tanzania was carried out on the 26th August, 2012. This was the fifth Census after the Union of Tanganyika and Zanzibar in 1964. Other Censuses were carried out in 1967, 1978, 1988 and 2002. The 2012 PHC, like previous others, will contribute to the improvement of quality of life of Tanzanians through the provision of current and reliable data for policy formulation, development planning and services delivery as well as for monitoring and evaluating national and international development frameworks.

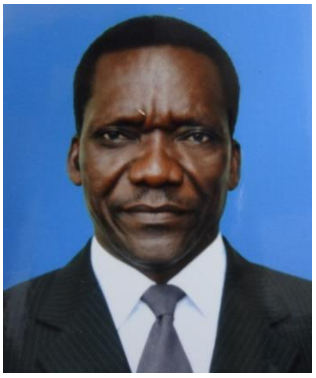
The 2012 PHC was unique as the collected information will be used in monitoring and evaluating the Development Vision 2025 for Tanzania Mainland and Zanzibar Development Vision 2020, Five Year Development Plan 2011/12–2015/16, National Strategy for Growth and Reduction of Poverty (NSGRP) commonly known as MKUKUTA and Zanzibar Strategy for Growth and Reduction of Poverty (ZSGRP) commonly known as MKUZA. The census will also provide information for the evaluation of the Millennium Development Goals (MDGs) in 2015. The Poverty Monitoring Master Plan, which is the monitoring tool for NSGRP and ZSGRP, mapped out core indicators for poverty monitoring against the sequence of surveys, with the 2012 PHC being one of them. Several of these core indicators for poverty monitoring are measured directly from the 2012 PHC. The census provides a denominator for the determination of other indicators such as childhood mortality, rates of maternal mortality and others.

The success of the census depended upon the cooperation and contributions from the government, development partners, various institutions and the public at large. A special word of thanks should go to the government leaders at all levels, particularly the Minister for Finance; Minister of State, President's Office, Finance, Economy and Development Planning, Zanzibar; Members of Parliament; Members of House of Representatives; Councilors; Regional and District Census Committees chaired by Regional and District Commissioners; Field Assistants; Enumerators; Supervisors; local leaders and heads of households.

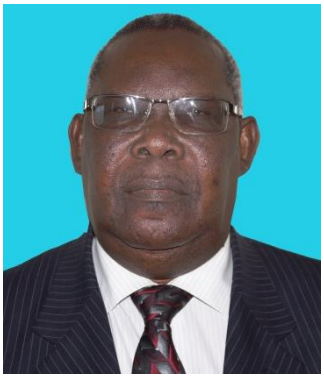
Our special gratitude should go to the following; DfID, Government of Japan, JICA, UNDP, UNFPA, UNICEF, USAID, World Bank and other development partners for providing assistance in terms of equipment, long and short term consultancies, training and funding. We would like to thank religious

and political party leaders, as well as Non-Governmental Organisations (NGOs), mass media and the general public for their contribution towards successful implementation of the census.

Last but not least, we would wish to acknowledge the vital contributions to the project by Hajjat Amina Mrisho Said, the 2012 Commissioner for Population and Housing Census and Mr. Mwalim Haji Ameir, the Census Commissar for Zanzibar. Special thanks should also go to the Management and staff of the National Bureau of Statistics and Office of Chief Government Statistician, Zanzibar. Their commitment and dedication made significant contributions to the overall efficiency of the census operations. We would also like to convey our appreciation to all other Government Officials who worked tirelessly to ensure successful implementation of the 2012 Population and Housing Census.



Hon. Mizengo Peter Pinda (MP),
Prime Minister, United Republic of Tanzania



Hon. Ambassador Seif Ali Iddi (MP and MHR),
Second Vice President, Zanzibar

Executive Summary

This Mortality and Health Monograph provides in-depth analysis of the level, trend and pattern of mortality in Tanzania. Specifically, it analyses and provides information on infant, child, under-five, adult and maternal mortality indicators using data from the 2012 Population and Housing Census (PHC). Where data allows, comparisons are made with estimates from previous censuses, other sources as well as with other countries. The information is presented at national level then disaggregated by the area of Tanzania Mainland and Tanzania Zanzibar, rural and urban. It is also disaggregated by the 30 administrative regions in the country (25 in Tanzania Mainland and 5 in Tanzania Zanzibar). In general the analysis presented in this report shows that there was a decline in mortality as compared to the previous census.

Chapter one highlights the methodology used in the estimation of mortality indicators. The estimated values of mortality were derived using indirect techniques. This is due to the fact that household deaths reported in Tanzania's census, like many other developing countries, are affected by under-reporting and thus cannot be used without evaluation and adjustment.

Chapter two presents the overall mortality in Tanzania. The country's Crude Death Rate (CDR) lies at around 9 deaths per 1,000 persons; and this is the level recorded in other Eastern African countries in the 2010 round of censuses. There was an overall decline in CDR for Tanzania, Tanzania Mainland, Tanzania Zanzibar and Tanzania Rural from 2002. However, there was a slight increase in CDR for Tanzania Urban. Njombe reported the highest CDR of 13.5 deaths per 1,000 persons. It was followed by Iringa (12.5 percent), Pwani (12.2 percent), Kagera (11.4 percent), Mbeya (10.7 percent), Lindi (10.2 percent) and Rukwa (10.1 percent). The remaining regions recorded a level of less than 10 deaths per 1,000 persons.

Life expectancy at birth (e_0) provides the most useful summary measure of the mortality level of a country's population. The estimates presented in this report show overall life expectancy at birth in Tanzania was 61.8 years. It was higher in Tanzania Zanzibar (65.2 years, see tables 2.10 and 2.11) compared to Tanzania Mainland (61.7 years). It was also higher among rural population (62.4 years) compared to urban populations (59.7 years). As regards sex, there was an overall difference of approximately four years, with women having higher life expectancy (63.8 years) compared to men

(59.8 years). Arusha region had the highest life expectancy (70.5 years) and Njombe had the lowest life expectancy (52.8 years).

Chapter three gives information on childhood mortality. The overall infant mortality rate (IMR) was estimated to 46 deaths per 1,000 live births. This implies that nearly five in every 100 newborn die before reaching their first birthdays. Child and under-five mortality rates were estimated to be 21 and 66 deaths per 1,000 live births respectively. The estimated rates for Tanzania Mainland are about the same as the national estimates; however, the rates for Tanzania Zanzibar were higher than the national rates for childhood mortality (22 deaths per 1,000 live births) but the same for under-five mortality (67 deaths per 1,000 live births).

Infant Mortality Rate for males stood at 51 deaths per 1,000 live births and for female it was 41 deaths per 1,000 live births. The child mortality rates for males were 23 deaths and around 20 deaths per 1,000 live-births for females. The mortality level for male children under five years of age was estimated at 73 deaths per 1,000 live births and for females it was 60 deaths per 1,000 live births. Kagera region had the highest IMR of 62 deaths per 1,000 live births. Arusha and Kilimanjaro regions reported the lowest levels in infant mortality of around 29 and 30 deaths per 1,000 live births respectively.

Chapter four presents the maternal mortality ratio for Tanzania, which was estimated at 432 maternal deaths per 100,000 live births. In other words, for every 1,000 live births in Tanzania in the year preceding the 2012 PHC about 4 women died of pregnancy-related causes. Maternal mortality was higher in urban areas (443 deaths per 100,000 live births) than in rural areas (336 deaths per 100,000 live births). The maternal mortality ratio for Tanzania Mainland was estimated at 435 deaths per 100,000 live births, which was significantly higher than that of Tanzania Zanzibar (307 deaths per 100,000 live births). It was also found that, MMR for teenage (15-19 years) was 341 deaths per 100,000 live births.

Summary of Key Indicators for Tanzania, Tanzania Mainland and Tanzania Zanzibar, 2012 Census

Indicator	Tanzania	Tanzania Mainland	Tanzania Zanzibar
Crude Deaths Rate	9.3	9.4	7.0
Rural	9.5	9.4	7.2
Urban	9.3	9.2	6.6
Male	10.0	10.1	7.9
Female	8.6	8.6	6.2
Adult Mortality Rate	8.3	8.4	5.7
Rural	8.6	8.5	5.9
Urban	8.2	8.2	5.1
Male	8.9	9.0	6.4
Female	7.8	7.9	5.0
Mortality among Young Population Aged 5-14 Years	2.3	2.4	1.8
Male	2.5	2.6	2.0
Female	2.1	2.1	1.6
Mortality among Youth Population Aged 15-24 Years	3.0	3.0	2.3
Male	3.4	3.5	2.9
Female	2.6	2.6	1.9
Mortality among Youth Population Aged 15-34 Years	4.3	4.3	2.7
Male	4.6	4.7	3.2
Female	4.0	4.0	2.2
Mortality among Working Age Population(Aged 15-64 Years)	6.6	6.6	4.3
Male	7.5	7.5	5.1
Female	5.8	5.9	3.6
Mortality among Elderly Population Aged 60+ Years	57.4	57.5	50.4
Male	59.5	59.7	51.4
Female	55.5	55.6	49.4
Life Expectancy at Birth	61.8	61.7	65.2
Rural	62.4	62.6	65.5
Urban	59.7	59.9	64.9
Male	59.8	59.7	63.3
Female	63.8	63.7	67.1
Infant Mortality Rate	46.2	46.2	46.4
Rural	46.0	45.3	46.4
Urban	48.5	47.8	48.4
Male	50.9	50.9	51.0
Female	41.3	41.3	41.6
Child Mortality Rate	21.3	21.3	22.0
Rural	20.9	20.6	21.8
Urban	23.9	23.6	23.9
Male	23.0	23.0	23.6
Female	19.7	19.6	20,4
Under-Five Mortality	66.5	66.5	67.4
Rural	65.9	64.9	67.1
Urban	71.2	70.2	71.1
Male	72.7	72.7	73.3
Female	60.2	60.1	61.2
Maternal Mortality Ratio	432	435	307

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List of Abbreviation and Acronyms

ASDR	-	Age-Specific Death Rate
CDR	-	Crude Death Rate
CMR	-	Child Mortality Rate
DfID	-	Department for International Development
DRC	-	Democratic Republic of Congo
DSS(s)	-	Demographic Surveillance Sentinel Sites
EA	-	Enumeration Area
HDI	-	Human Development Index
HSSP II	-	Health Sector Strategic Plan II
IMR	-	Infant Mortality Rate
JICA	-	Japanese International Co-operation Agency
LTR	-	Lifetime Risk
MDAs	-	Ministries, Departments and Agencies
MDG	-	Millennium Development Goal
MMR	-	Maternal Mortality Ratio
NA	-	Not Applicable
NBS	-	National Bureau of Statistics
NGO	-	Non-Governmental Organization
OCGS	-	Office of Chief Government Statistician
PASEX	-	Population Analysis System Spreadsheets
PHC	-	Population and Housing Census
RUPEX	-	Rural & Urban Projection program with Excel interface
SADC	-	Southern Africa Development Community
TDHS	-	Tanzania Demographic and Health Survey
UN	-	United Nations
UNDP	-	United Nations Development Programme
UNFPA	-	United Nations Population Fund
UNICEF	-	United Nations Children's Fund
USA	-	United States of America
USAID	-	United States Agency for International Development
U5MR	-	Under-5 Mortality Rate
e_0	-	Life Expectancy at Birth
${}_1q_0$	-	Infant mortality
${}_4q_1$	-	Child Mortality
${}_5q_0$	-	Under-Five Mortality

Chapter One

Introduction

1.0 Background

Mortality refers to deaths that occur within a population. The probability of dying during a given time period is linked to socio-demographic factors such as age, sex, race, occupation and social class. The level of mortality reflects the country's conditions of morbidity and related factors including prevalence of diseases, environmental and nutritional factors as well as the functioning of the health care systems. The analysis of mortality levels and trends in a country is, therefore, important for various reasons, among which are the use of the various mortality indicators in policy formulation, strategic planning, monitoring and evaluation of various health and other socio-economic programmes, as well as in facilitating other demographic analyses of a population. Further, it provides important indicators used in the assessment of the socio-economic status of a population, including indicators needed to calculate the Human Development Index (HDI) for assessing progress made towards achieving national and international goals.

The main objective of this monograph is to analyze and provide information on levels and trends of mortality in Tanzania. Specifically, it analyses and provides estimates of infant, child, under-five, adult and maternal mortality as reported in 2012 Population and Housing Census (PHC). Where data allow, comparisons with previous censuses or estimates from other sources as well as with other countries are presented. The information is presented at national level, and for Tanzania Mainland and Tanzania Zanzibar. It is further disaggregated by rural and urban areas as well as by the 30 administrative regions in the country (25 regions in Tanzania Mainland and 5 regions in Tanzania Zanzibar).

The analysis relies on indirect techniques for estimating mortality. This is because Tanzania, like many other developing countries, lacks a robust vital registration system which could produce adequate and accurate data to facilitate the calculation of reliable mortality estimates for all the indicators using direct techniques. Instead, the country relies on censuses as its main source of demographic data, especially those related to mortality. Moreover, some of the questions and therefore the data ensuing from the 2012 PHC (for example, information on child survivorship and survivorship of parents) require the use of indirect techniques. The census data are supplemented by data from other sources

like the Tanzania Demographic and Health Surveys (TDHS) since 1992; and of recent, the Demographic Surveillance Sentinel Sites (DSS), which provide important information on Burden of Disease (BOD). In addition to supplementing census information, data from these other sources are used to verify the quality of the indicators resulting from the calculations.

1.1 Concepts and Definitions

The concepts and definitions of various measures of mortality adopted in this monograph are as follows:

1.1.1 Crude Death Rate (CDR)

The CDR is the number of deaths occurring in a calendar year per 1,000 population. It is, however, affected by age structure, such that comparison between two different populations requires that the data are standardized for age.

1.1.2 "Age-Specific" Death Rates (ASDR)

The ASDR is the number of deaths among the population of a specific age group per 1,000 population.

1.1.3 Infant Mortality Rate (IMR)

Infant mortality refers to deaths occurring to children under one year of age. It is measured by a rate denoted as IMR, which is the number of deaths of children under the age of one year per 1,000 live births.

1.1.4 Under 5 Mortality Rate (U5MR)

Deaths occurring to children aged below five years are referred to as under-five mortality. The under-five mortality rate is the number of deaths of children below 5 years of age per 1,000 live births.

1.1.5 Maternal Mortality

Maternal mortality refers to deaths occurring to women of reproductive age due to causes related to pregnancy and child birth. Such deaths can occur during pregnancy, during delivery or within a period of 42 days after delivery due to complications associated with child bearing.

1.1.6 Lifetime Risk

Lifetime Risk (LTR) reflects the risk that a woman who survives to age 45 will die of maternal causes at some point during her reproductive lifespan.

1.1.7 Life Expectancy

Life expectancy is the estimated average number of additional years a person could expect to live if the "age-specific" death rates for a given year prevailed for the rest of his or her lifetime. The estimated number of years an individual is expected to live generally decreases with increasing age.

1.1.8 Life Expectancy at Birth (e_0)

Life expectancy at birth is an estimate of the average number of years a new born baby is expected to live subject to the mortality risks prevailing for the cross-section of the population at the time of its birth.

1.2 Overview of Mortality-Related Census Questions and Changes since 2002

The 2012 PHC Questionnaires had a total of eight questions that are directly related to mortality in general. Five of them solicited information on the total number of deaths that occurred in the household by sex and age of the deceased as well as the cause of death. The questions on causes of death centered on whether the cause was road traffic accidents, other injuries, suicide, domestic violence, sickness/diseases, maternal and other causes. The other three questions concerned maternal deaths, focusing on whether the death occurred during pregnancy, at the time of delivery or within six weeks after delivery (puerperium period). There were also questions related to orphan-hood that provided information on whether one or both of the parents were alive or not. There were also questions on fertility which provided information on the number of children ever born and children surviving to women aged 12-49 years. Such data are useful in indirect estimation of mortality, which relies in part on model life tables in deriving childhood mortality and life expectancy.

Comparing the 2002 and 2012 PHC questions, there were significant improvements in 2012. The questions on maternal deaths (in the 2012 PHC) facilitated a detailed analysis of maternal mortality in the country for the first time using census data. Such questions were not included in the 2002 Census.

1.3 Evaluation of Quality of Data

Data on mortality from censuses have all along been unreliable. This is because of errors and several reporting (and often measurement) biases that affect the quality of data. Respondents in the households may be reluctant to report the death of a household member, especially if it occurred recently, or if it occurred to an infant especially within its first few days after birth. Moreover, some deaths of members of households may be reported more than once or omitted if the death occurred elsewhere. There are also problems in identifying the cause of death as well as misreporting the age of the deceased. The way the questions were asked and the probing on deaths coupled with the characteristics of the respondents may also result in errors in the reported deaths.

Briefly, mortality data suffer from errors resulting from under- and over-reporting of deaths, errors in reporting the age of the deceased as well as errors in reporting the cause of death. These errors affect the levels and patterns of mortality in general and also in childhood, adult and maternal mortality. Therefore, evaluating and hence adjusting the reported death data is inevitable.

Various methods and techniques were applied to evaluate and adjust the information on deaths collected from the 2012 Population and Housing Census, including the smoothing of age-specific death rates.

1.4 Construction of Life Tables and Estimation of Life Expectancy at Birth

Life tables were constructed by indirectly estimating under-5 mortality from child survivorship data from 2002 and 2012 censuses, then modeling mortality at age 5 and above. For Tanzania and Tanzania Mainland, estimates of 2012 infant and child mortality (ages 1 to 4) were derived from child survivorship data from the 2002 and 2012 PHCs and Brass' child survivorship technique, assuming North model mortality. Infant (under 1 year) and child mortality (Ages 1 to 4) were then extrapolated to midyear 2012. AIDS mortality rates ${}_nm_x$'s were calculated using an epidemiological model at national level based on antenatal care (ANC) sentinel site data. A series of AIDS m(x)s adjusted upward or downward for sub-areas based on 2011/12 HIV prevalence estimates, were subtracted from the estimated ${}_1m_0$ and ${}_4m_1$, and the associated l_5 values were used to model life table ${}_nm_x$'s at ages 5 and above. Under-five mortality was combined with mortality at ages 5 and above to generate a hypothetical "without-AIDS" life table and AIDS mortality was then added to age – sex-specific ${}_nm_x$'s to give a "with-AIDS" life table.

For Mainland, the estimation approach used involved estimation of under-5 mortality from census questions about children ever born and surviving from the 2002 and 2012 censuses, and modeling mortality at ages above age 5 using Coale-Demeny North regional model mortality (Coale and Demeny 1966, United Nations 1983). Non-AIDS age-specific central death rates were calculated for ages under 5, AIDS mortality from epidemiological modeling was subtracted to give non-AIDS rates, non-AIDS mortality above age 5 was modeled using the North regional mortality, and AIDS mortality was then added to the non-AIDS death rates at all ages, completing life tables and generating death rates for specific adult age groups.

For Zanzibar, under-5 mortality was also indirectly calculated from child survivorship data and mortality above age 5 was modeled using North Regional Model Mortality. However, AIDS mortality was not incorporated into the estimation for Zanzibar because of the concentrated nature of the epidemic, the low HIV prevalence level, and the absence of approved sentinel surveillance site data for epidemiological modeling for Zanzibar. This chapter presents results on adult mortality in general, as well as mortality of population groups of interest based on the 2012 PHC data.

Chapter Two

General Mortality

2.0 Introduction

Adult mortality and morbidity in "Sub-Saharan" Africa are not well understood. Compared to childhood and maternal mortality, little attention has been directed towards understanding the magnitude and trends of adult mortality. Yet, this is the most economically and biologically productive population sub-group. Moreover, any meaningful health intervention to reduce mortality and ill-health must be informed on the magnitude, the spatial distribution and cause of illness and death. Understanding adult health is, therefore, important for health, economic and social planning.

In this chapter, adult mortality is distinguished from under-5 mortality and refers to mortality at all ages 5 and above. The 2012 PHC asked questions about deaths in the household during the year preceding the census, about orphan-hood, and about child survivorship. Each of these types of data can be used to calculate mortality at ages 5 and above. However, after review of the quality of the household deaths data and the assumptions required by the methodology available to estimate adult deaths from the distribution of deaths by age or from orphan-hood, an indirect estimation approach making use of child survivorship data was used to calculate mortality at ages 5 and above from the 2012 national population and household census (PHC). In addition to presenting crude death rates and age-specific death rates, this chapter presents estimated mortality among youths, the working-age population and the older population.

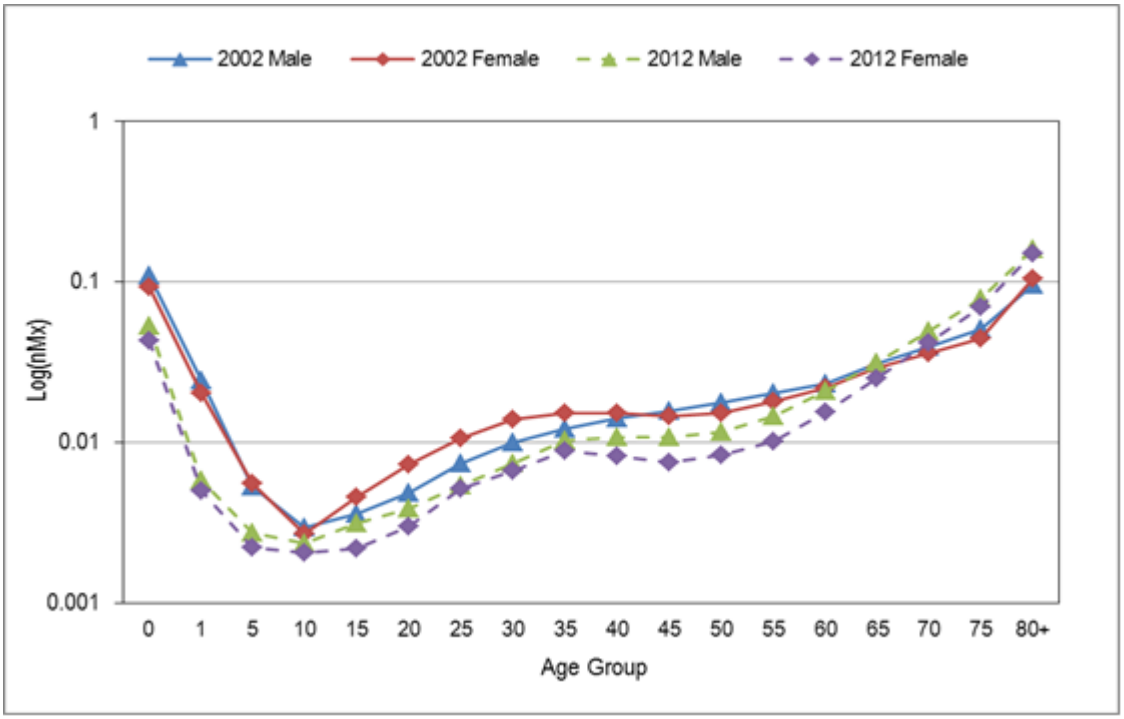
2.1 General Mortality Indicators

Three indicators commonly used in the analysis of mortality were calculated and analysed. These are the crude death rate, age-specific death rates and life expectancy at birth.

2.1.1 Age-Specific Deaths Rates

Estimated age-specific death rates for Tanzania, its regions, and rural and urban areas are taken from the indirectly derived life tables calculated for 2012 (August). For comparison purpose Figure 2.1 shows the age-specific death rates for 2002 census and the recent census (2012). Death rates were generally higher in 2002 than 2012 for both males and females.

Figure 2. 1: Estimated Deaths per 1,000 by Age and Sex, Tanzania 2012 Census



2.1.2 Crude Death Rates

The Crude Death Rate (CDR) is a crude measure of overall level of mortality in a given population. CDR may be obtained by dividing the number of reported deaths occurring in a calendar year by the mid-year population and multiplying the results by 1,000. The calculated value is the level of mortality per 1,000 persons. In the 2012 TPHC, the reported deaths were generally low, indicating under-reporting of the deaths (see chapter 1). Here, deaths have been calculated as the product of census population and indirectly-derived age-specific death rates. CDR has been calculated as the ratio of the sum of all deaths to total census population for Tanzania and its sub-areas.

Unadjusted deaths were obtained from reported deaths occurring in the households during the 12 months before census night. This information was collected by asking the head of household whether there was any death that occurred in the household within the 12 months prior to the census reference date. Information on deaths that occurred in a household in the past 12 months prior to the census date could be used in the estimation of crude death rates (CDR), age-specific death rates. As known that, information on mortality derived from censuses has all along been unreliable, this has necessitated the need to evaluate and hence adjust the reported death data to get desired mortality levels, quality data is of importance hence evaluation of data has to be done before embarking on estimation of mortality indices.

Estimated deaths have been obtained by taking adjusted ${}_nm_x$ from the raked final life table multiplying by the population from private households.

Table 2.1 shows the reported and adjusted CDRs. The country's CDR lies at around 9 deaths per 1,000 population; and this is within the levels recorded in other eastern African countries in the 2010 round of censuses. There are slight higher CDR in urban areas (10 deaths per 1,000 population) compared to rural areas (9 deaths per 1,000 population).

Njombe Region reported to have the highest CDR (13.5 deaths per 1,000 persons) followed by Iringa (12.5 deaths per 1,000 persons), Pwani (12.2 deaths per 1,000 persons), Kagera (11.4 deaths per 1,000 persons), Mbeya (10.7 deaths per 1,000 persons), Katavi (10.7 deaths per 1,000 persons), Mtwara (10.6 deaths per 1,000 persons) and Lindi (10.2 deaths per 1,000 persons) and Rukwa (10.1 deaths per 1,000 persons). On the low side are Geita, Simiyu, Kusini Pemba, Kaskazini Unguja, Kaskazini Pemba, Singida, Mjini Magharibi, Arusha and Manyara. These regions recorded a CDR less than 8 deaths per 1,000 persons.

Table 2. 1: Unadjusted and Estimated CDRs by Region/Area, Tanzania, 2012 Census

Region/Area	2012 Unadjusted CDR			2012 Estimated CDR		
	Total	Male	Female	Total	Male	Female
Tanzania	9.3	9.8	8.9	9.3	10.0	8.6
Tanzania Rural	8.9	9.3	8.4	9.5	10.2	8.8
Tanzania Urban	10.4	11.1	9.9	9.3	10.1	8.5
Tanzania Mainland	9.3	9.8	8.9	9.4	10.1	8.6
Mainland Rural	8.9	9.4	8.4	9.4	10.1	8.7
Mainland Urban	10.5	11.1	9.9	9.2	10.0	8.4
Tanzania Zanzibar	9.3	9.6	9.0	7.0	7.9	6.2
Zanzibar Rural	8.6	8.7	8.5	7.2	8.2	6.3
Zanzibar Urban	10.1	10.7	9.5	6.6	7.7	5.6
Dodoma	8.8	9.3	8.4	9.0	10.1	7.9
Arusha	8.0	8.7	7.3	5.4	5.9	4.9
Kilimanjaro	9.3	10.3	8.4	9.3	9.4	9.2
Tanga	12.1	12.6	11.6	9.1	9.6	8.6
Morogoro	9.9	10.2	9.6	9.2	10.0	8.5
Pwani	13.0	13.5	12.6	12.2	12.3	12.2
Dar es Salaam	10.5	10.9	10.1	9.1	10.2	8.1
Lindi	12.1	12.8	11.5	10.2	11.5	9.0
Mtwara	12.1	13.2	11.1	10.6	11.2	10.0
Ruvuma	8.9	9.5	8.4	9.9	10.5	9.3
Iringa	10.9	11.9	10.0	12.5	13.0	11.9
Mbeya	10.4	11.0	10.0	10.7	11.4	10.1
Singida	9.0	8.2	9.7	7.8	8.1	7.4
Tabora	7.8	8.1	7.5	9.5	10.5	8.4
Rukwa	10.9	11.8	10.1	10.1	11.2	9.0
Kigoma	8.2	8.8	7.6	9.6	10.2	9.0
Shinyanga	7.2	7.6	6.9	9.7	10.7	8.7
Kagera	9.8	10.4	9.3	11.4	12.1	10.7
Mwanza	7.9	8.5	7.4	8.4	9.2	7.6
Mara	8.7	9.4	8.0	9.5	10.1	8.9
Manyara	7.6	8.0	7.2	6.9	7.4	6.5
Njombe	6.0	6.6	5.5	13.5	14.9	12.4
Katavi	8.4	8.7	8.1	10.7	12.3	9.0
Simiyu	7.4	8.0	6.8	7.4	7.8	7.1
Geita	6.7	7.0	6.4	7.6	8.3	6.9
Kaskazini Unguja	7.5	7.7	7.3	7.1	8.2	6.1
Kusini Unguja	9.7	10.1	9.4	9.0	9.9	8.1
Mjini Magharibi	10.1	10.6	9.6	6.5	7.6	5.6
Kaskazini Pemba	9.5	9.2	9.8	7.0	7.8	6.2
Kusini Pemba	7.7	8.3	7.3	7.4	7.7	7.2

2.1.3 Change in CDR for Tanzania, Tanzania Mainland, Tanzania Zanzibar, Tanzania Rural and Tanzania Urban (2002 – 2012)

Table 2.2 compares estimated CDR of the 2012 census with that of 2002 for the country and for rural and urban areas. There is an overall decline in CDR for Tanzania, Tanzania Mainland and Tanzania Zanzibar, and also in the rural areas. However, there is a slight increase in CDR for Tanzania Urban.

Data indicate that the crude death rate for Tanzania has declined from 16 deaths per 1,000 persons in 2002 to 9.3 deaths per 1,000 persons in 2012. In the Tanzania Mainland it has declined from 16 to 9.4 deaths per 1,000 persons while in the rural areas the decline was from 18 to 9.5 deaths per 1000 persons. In Tanzania Zanzibar, there is also decline from 10 to 7.0 deaths per 1,000 persons.

Table 2. 2: Change in CDR Based on 2002 and 2012 Tanzania Censuses

Administrative Area	2002 Estimated CDRs			2012 Estimated CDRs			Percentage Change since 2002		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Tanzania	**16**	**15**	8.6	9.3	10.0	8.6	-41.9	-33.3	0.0
Tanzania Rural	18	17	8.5	9.5	10.2	8.8	-47.2	-40.0	+3.5
Tanzania Urban	9	10	8.8	9.3	10.1	8.5	+3.3	+1.0	-3.4
Tanzania Mainland	16	15	8.7	9.4	10.1	8.6	-41.2	-32.7	-1.1
Tanzania Zanzibar	10	10	5.9	7.0	7.9	6.2	-30.0	-21.0	+5.1

2.1.4 Change in CDR by Administrative Region or Area (2002 – 2012)

At regional level (Table 2.3), the decline in CDR is observed in majority of the regions in Tanzania. Mjini Magharibi was the only region with an increase of CDR during the 2002-2012 period. Regions recording the highest decline were Rukwa (from 30 deaths per 1,000 persons in 2002 to 10 deaths per 1,000 persons in 2012), Dodoma (from 24 deaths per 1,000 to 9 deaths per 1,000 persons), Tanga (from 23 deaths per 1,000 to 9.0 deaths per 1,000 persons), Kaskazini Pemba (from 18 deaths per 1,000 to 7 deaths per 1,000 persons), Iringa (from 29 deaths per 1,000 to 13 deaths per 1,000 persons) and Singida (from 18 deaths per 1,000 to 8 deaths per 1,000 persons).

Table 2. 3: Change in CDR by Region/Area and Sex, 2002 and 2012 Tanzania Censuses

Region/Area	2002 Estimated CDRs			2012 Estimated CDRs			Percentage Change since 2002		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Tanzania	**16**	**15**	**16**	**9.3**	**10.0**	**8.6**	**-41.9**	**-33.3**	**-46.3**
Tanzania Mainland	**16**	**15**	**16**	**9.4**	**10.1**	**8.6**	**-41.3**	**-32.7**	**-46.3**
Dodoma	24	23	24	9.0	10.1	7.9	-62.5	-56.1	-67.1
Arusha	12	9	19	5.4	5.9	4.9	-55.0	-34.4	-74.2
Kilimanjaro	15	14	15	9.3	9.4	9.2	-38.0	-32.9	-38.7
Tanga	23	21	24	9.1	9.6	8.6	-60.4	-54.3	-64.2
Morogoro	15	14	14	9.2	10.0	8.5	-38.7	-28.6	-39.3
Pwani	14	12	15	12.2	12.3	12.2	-12.9	2.5	-18.7
Dar es Salaam	10	11	9	9.1	10.2	8.1	-9.0	-7.3	-10.0
Lindi	17	17	17	10.2	11.5	9.0	-40.0	-32.4	-47.1
Mtwara	23	23	23	10.6	11.2	10.0	-53.9	-51.3	-56.5
Ruvuma	14	16	13	9.9	10.5	9.3	-29.3	-34.4	-28.5
Iringa	29	25	33	12.5	13.0	11.9	-56.9	-48.0	-63.9
Mbeya	24	21	27	10.7	11.4	10.1	-55.4	-45.7	-62.6
Singida	18	18	18	7.8	8.1	7.4	-56.7	-55.0	-58.9
Tabora	12	12	12	9.5	10.5	8.4	-20.8	-12.5	-30.0
Rukwa	30	33	27	10.1	11.2	9.0	-66.3	-66.1	-66.7
Kigoma	13	12	13	9.6	10.2	9.0	-26.2	-15.0	-30.8
Shinyanga	17	17	17	9.7	10.7	8.7	-42.9	-37.1	-48.8
Kagera	14	15	13	11.4	12.1	10.7	-18.6	-19.3	-17.7
Mwanza	14	14	13	8.4	9.2	7.6	-40.0	-34.3	-41.5
Mara	18	16	20	9.5	10.1	8.9	-47.2	-36.9	-55.5
Manyara	13	12	13	6.9	7.4	6.5	-46.9	-38.3	-50.0
Njombe*	*	*	*	13.5	14.9	12.4	*	*	*
Katavi*	*	*	*	10.7	12.3	9.0	*	*	*
Simiyu*	*	*	*	7.4	7.8	7.1	*	*	*
Geita*	*	*	*	7.6	8.3	6.9	*	*	*
Tanzania Zanzibar	**10**	**10**	**10**	**7.0**	**7.9**	**6.2**	**-30.0**	**-21.0**	**-38.0**
Kaskazini Unguja	16	15	17	7.1	8.2	6.1	-55.6	-45.3	-64.1
Kusini Unguja	10	10	9	9.0	9.9	8.1	-10.0	-1.0	-10.0
Mjini Magharibi	6	6	6	6.5	7.6	5.6	8.3	26.7	-6.7
Kaskazini Pemba	18	17	19	7.0	7.8	6.2	-61.1	-54.1	-67.4
Kusini Pemba	15	16	17	7.4	7.7	7.2	-50.7	-51.9	-57.6

Note: regions marked * were formed/created after 2002 Census

2.2 Adult Mortality by Specific Age Groups

The occurrence of deaths varies between population age groups due to a number of factors. Occupations and other lifestyle aspects are often associated with these variations. Moreover, the implications of mortality levels of specific age groups need to be well understood for meaningful interventions in people's health. This section examines mortality by different age groups.

2.2.1 Mortality among Population of Age 5 Years and Above

The overall mortality among Tanzania adult population (persons of age 5 years and above) is shown in Table 2.4. Its mortality was 8.3 deaths per 1,000 persons and it was slightly higher among males (8.9 deaths per 1,000 persons) than females (7.8 deaths per 1,000 persons). This is common in many populations, as men are generally reported to have higher mortality compared to women. The rates for Tanzania and those for Tanzania Mainland are generally comparable. That of Tanzania Zanzibar is slightly lower and the difference is significant.

Comparing rural population with urban population, mortality is slightly lower in urban population (8.2 deaths per 1,000 persons) than in rural population (8.6 deaths per 1,000 persons). This pattern is maintained for Tanzania, Tanzania Mainland and Tanzania Zanzibar. However, the difference is small in each area. There are also variations in mortality rates between sexes with males having higher rates than females.

Table 2. 4: Mortality among Population of age 5+ Years by Area, Tanzania 2012 Census

	Tanzania			Tanzania Mainland			Tanzania Zanzibar		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	8.3	8.9	7.8	8.4	9.0	7.9	5.7	6.4	5.0
Rural	8.6	9.2	8.0	8.5	9.1	8.0	5.9	6.7	5.2
Urban	8.2	8.9	7.6	8.2	8.8	7.6	5.1	5.9	4.4

2.2.2 Mortality among Young People (5–14 years)

Overall, mortality among young people of age 5 to 14 was 2.3 deaths per 1,000 persons (Table 2.5). The levels are generally similar in Tanzania, the Tanzania Mainland and Tanzania Zanzibar. The pattern of higher mortality for males than for females is still evident. When mortality is compared between rural and urban areas, the pattern of higher mortality in urban areas than in rural is still evident. retained. In Tanzania, mortality for this age group was 2.2 deaths per 1,000 persons in the

rural areas, and 2.7 deaths per 1,000 persons in the urban areas. This pattern is maintained in the overall population of Tanzania, Tanzania Mainland and Tanzania Zanzibar.

Table 2. 5: Mortality among Population of age 5–14 Years by Area, Tanzania 2012 Census

	Tanzania			Tanzania Mainland			Tanzania Zanzibar		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	**2.3**	**2.5**	**2.1**	2.4	**2.6**	**2.1**	**1.8**	**2.0**	**1.6**
Rural	2.2	2.5	2.0	2.2	2.4	2	1.6	1.8	1.5
Urban	2.7	2.9	2.5	2.7	2.9	2.5	1.8	2.1	1.5

2.2.3 Mortality among Youth (15–24 and 15–34 years)

Internationally, youth population is the population aged 15 to 24 years. However, according to the Tanzania's Youth Policy, youth population is the population aged 15 to 34 years. The overall mortality level among youths of age 15 to 34 years was 4.3 deaths per 1,000 persons; higher in Tanzania Mainland (4.3 deaths per 1,000 persons) than in Zanzibar (2.7 deaths per 1,000 persons). In Tanzania, mortality was higher among males (4.7 deaths per 1,000 persons) than females (4.0 per 1,000), but lower among rural dwellers (4.0) than among urban dwellers (5.1) (Table 2.6).

Table 2. 6: Mortality among Population of age 15–24 and 15–34 Years, Tanzania, 2012 Census

Administrative Area	15 - 24 years			15 - 34 years		
	Total	Male	Female	Total	Male	Female
Tanzania	3.0	3.4	2.6	4.3	4.6	4.0
Rural	2.9	3.3	2.4	4.0	4.4	3.6
Urban	3.4	3.9	3.0	5.1	5.5	4.8
Tanzania Mainland	3.0	3.5	2.6	4.3	4.7	4.0
Rural	2.8	3.3	2.4	3.9	4.3	3.6
Urban	3.3	3.8	2.9	5.0	5.4	4.8
Tanzania Zanzibar	2.3	2.9	1.9	2.7	3.2	2.2
Rural	2.2	2.7	1.8	2.5	3.0	2.1
Urban	2.4	3.0	1.8	2.7	3.4	2.1

2.2.4 Mortality among Working Age Population (15–64 years) and the Elderly (60+ and 65+ years) Populations

2.2.4.1 Mortality among Working Age (15–64 years) Population

The overall mortality among the 15 to 64 years age group, the age range comprising most of Tanzania's labour force, was 6.6 deaths per 1,000 persons; higher among males (7.5 deaths per 1,000 persons) than among females (5.8 deaths per 1,000 persons). However, mortality was lower for rural dwellers (6.3 deaths per 1,000 persons) than for urban dwellers (7.5 deaths per 1,000 persons). The same pattern was observed in Tanzania Mainland. In Tanzania Zanzibar mortality was the same for rural and urban dwellers (Table 2.7).

Table 2. 7: Mortality among Working Age (15–64 years Population by Area, Tanzania 2012 Census

	Tanzania			Tanzania Mainland			Tanzania Zanzibar		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	**6.6**	**7.5**	**5.8**	6.6	7.5	5.9	4.3	5.1	3.6
Rural	6.3	7.2	5.5	6.3	7.1	5.5	4.2	5.0	3.4
Urban	7.5	8.4	6.6	7.4	8.3	6.6	4.2	5.2	3.3

2.2.4.2 Mortality among the Elderly (60+ and 65+ years) Population

The magnitude of mortality among the elderly people of 60 years and above was 57.4 deaths per 1,000 persons and that of 65 years and above was 74.8 deaths per 1,000 persons. Mortality was higher among males than among females for both age groups in Tanzania Mainland as well as in Tanzania Zanzibar. Rural areas had higher mortality than urban areas, and this pattern was observed in Tanzania, Tanzania Mainland and Tanzania Zanzibar (Table 2.8).

Table 2. 8: Mortality among the Elderly (60+ and 65+ years) Population by Area, Tanzania 2012 Census

Administrative Area	60 Years and Above			65 Years and Above		
	Total	Male	Female	Total	Male	Female
Tanzania	**57.4**	**59.5**	**55.5**	**74.8**	**77.3**	**72.5**
Rural	59.0	61.8	56.4	76.1	79.3	73.2
Urban	53.6	53.5	53.6	72.4	72.7	72.1
Tanzania Mainland	**57.5**	**59.7**	**55.6**	**74.9**	**77.5**	**72.6**
Rural	58.6	61.3	56.1	75.5	78.6	72.7
Urban	53.4	53.3	53.5	72.0	72.3	71.8
Tanzania Zanzibar	**50.4**	**51.4**	**49.4**	**69.3**	**70.5**	**68.2**
Rural	51.6	53.8	49.3	70.0	72.2	67.7
Urban	47.5	47.6	47.5	66.9	67.6	66.3

2.2.5 Regional Variations in Adult Mortality

Table 2.9 presents the adult mortality by region. The results reveal that, in all regions, the mortality level was higher for males than females. Regions with a higher adult mortality rate than the national average of 8.3 deaths per 1,000 persons were Njombe (13 deaths per 1,000 persons), Pwani (11.5 deaths 1,000 persons), Iringa (11.3 deaths per 1,000 persons), Mtwara (10.1 deaths per 1,000 persons), Mbeya (9.9 deaths per 1,000 persons), Lindi (9.6 deaths per 1,000 persons), Kilimanjaro (9.5 deaths per 1,000 persons), Kagera (9.4 deaths per 1,000 persons), Ruvuma (9.0 deaths per 1,000 persons) Shinyanga (8.7 deaths per 1,000 persons), Katavi (8.6 deaths per 1,000 persons), Dodoma and Tabora (each with 8.4 deaths per 1,000 persons).

Table 2. 9: Adult Mortality by Region and Sex, Tanzania 2012 Census

Region	Both Sexes	Male	Female
Tanzania	8.3	8.9	7.8
Tanzania Mainland	8.4	9.0	7.9
Dodoma	8.4	9.4	7.5
Arusha	4.9	5.4	4.5
Kilimanjaro	9.5	9.6	9.4
Tanga	8.2	8.6	7.9
Morogoro	8.3	8.8	7.8
Pwani	11.5	11.3	11.8
Dar es Salaam	8.1	9.0	7.2
Lindi	9.6	10.6	8.8
Mtwara	10.1	10.4	9.7
Ruvuma	9.0	9.5	8.5
Iringa	11.3	11.6	11.1
Mbeya	9.9	10.5	9.4
Singida	7.6	7.8	7.3
Tabora	8.4	9.4	7.4
Rukwa	8.1	9.1	7.2
Kigoma	8.3	8.6	8.0
Shinyanga	8.7	9.6	7.8
Kagera	9.4	10.0	8.9
Mwanza	7.2	7.9	6.6
Mara	8.1	8.4	7.7
Manyara	6.4	6.7	6.1
Njombe	13.0	14.3	11.9
Katavi	8.6	10.2	7.0
Simiyu	6.6	6.9	6.3
Geita	6.5	7.2	5.8
Tanzania Zanzibar	5.7	6.4	5.0
Kaskazini Unguja	6.1	7.1	5.2
Kusini Unguja	7.4	8.0	6.7
Mjini Magharibi	5.1	5.8	4.4
Kaskazini Pemba	5.7	6.5	5.0
Kusini Pemba	6.1	6.4	5.8

2.2.6 Life Expectancy

Life expectancy at birth (e_0) provides the most useful summary measure of the overall level of mortality in a population. Life expectancy at birth is calculated as part of a life table, and the methodologies for life table construction on Tanzania Mainland and Tanzania Zanzibar have already been described. The life tables for Tanzania Mainland and its regions were calculated by incorporating estimated AIDS mortality while those for Tanzania Zanzibar and its regions were calculated without incorporating AIDS. Table 2.10 presents the estimates of life expectancy at birth for Tanzania, Tanzania Mainland, Tanzania Zanzibar and Table 2.11 presents the same for the 30 administrative regions.

In 2012, the estimates show that the overall life expectancy at birth was 61.8 years in Tanzania and 61.7 years for Tanzania Mainland. The observed value is lower than that of Tanzania Zanzibar (63.5 years). It is also slightly lower among urban populations (59.7 years) compared to rural populations (62.4 years)., Women have higher life expectancy at birth of four years more than their counterpart male (63.8 years for women and 59.8 years for male). Male mortality is higher and male life expectancy at birth lower in both parts of URT (Mainland and Zanzibar).

Table 2. 10: Life Expectancy at Birth in Tanzania; 2002 and 2012 Censuses

Administrative Area	Life Expectancy at Birth, 2002			Life Expectancy at Birth, 2012		
	Total	Male	Female	Total	Male	Female
Tanzania	50.9	51.0	51.0	61.8	59.8	63.8
Tanzania Rural	50.0	49.9	50.4	62.4	60.3	64.4
Tanzania Urban	56.8	55.8	58.8	59.7	57.7	61.7
Tanzania Mainland	50.4	50.8	51.0	61.7	59.7	63.7
Mainland Rural	49.4	49.4	51.2	62.6	60.6	64.6
Mainland Urban	56.4	55.5	58.8	59.9	58.0	61.8
Tanzania Zanzibar	59.0	59.7	60.3	65.2	63.3	67.1
Zanzibar Rural	58.7	58.0	59.9	65.5	64.0	66.9
Zanzibar Urban	56.8	55.5	57.8	64.9	62.2	67.6

Life expectancy at birth varies by administrative region. Some regions had life expectancies that were below the national average (62 years). Njombe had the lowest life expectancy at birth (52.8 years) among all regions. Arusha had the highest life expectancy at birth (over 71 years).

Table 2. 11: Life Expectancy at Birth by Region Tanzania, 2002 and 2012 Censuses

Region	Life Expectancy at Birth, 2002			Life Expectancy at Birth, 2012		
	Total	Male	Female	Total	Male	Female
Tanzania	50.9	51.0	51.0	61.8	59.8	63.8
Tanzania Mainland	50.9	51.0	51.0	61.7	59.7	63.7
Dodoma	45.1	46.5	44.9	64.3	60.8	67.9
Arusha	60.4	58.9	53.3	70.5	68.8	72.3
Kilimanjaro	54.8	54.8	54.7	67.3	66.3	68.4
Tanga	43.6	42.2	43.2	64.3	63.3	65.3
Morogoro	50.4	50.5	50.7	62.3	60.4	64.3
Pwani	52.3	52.6	51	60.2	59.7	60.7
Dar es Salaam	53.9	52.5	54.6	59.4	57.2	61.6
Lindi	48	48.1	48.3	63.8	61.2	66.4
Mtwara	43.6	43.1	44.5	63.4	61.8	65.1
Ruvuma	52.2	50.8	53.9	60.2	59.0	61.5
Iringa	39	36.7	37.7	55.4	53.2	57.7
Mbeya	40.6	41.9	39	58.1	56.3	60.0
Singida	50.3	50.9	50.1	67.0	65.7	68.2
Tabora	56.6	56.8	57.1	60.7	58.1	63.3
Rukwa	44.5	42.9	46.9	58.3	55.9	60.8
Kigoma	61.1	63.2	59.9	62.1	60.4	63.8
Shinyanga	51.4	50.8	52.7	59.6	57.0	62.3
Kagera	52.6	51.7	54.2	57.5	55.5	59.7
Mwanza	53.2	51.9	54.5	62.4	60.3	64.6
Mara	49.3	49.6	49.3	60.8	58.9	62.8
Manyara	59.2	59.2	59.5	68.1	66.8	69.5
Njombe*	--	--	--	52.8	49.3	56.4
Katavi*	--	--	--	57.3	53.9	60.9
Simiyu*	--	--	--	64.6	63.2	66.0
Geita*	--	--	--	63.2	61.6	64.8
Tanzania Zanzibar	57.0	59.7	60.3	65.2	63.3	67.1
Kaskazini Unguja	58.0	58.2	55.6	66.6	64.5	68.8
Kusini Unguja	62.5	61.7	63.1	62.3	60.1	64.5
Mjini Magharibi	64.9	64.9	65.7	65.0	62.6	67.5
Kaskazini Pemba	53.2	54.0	53.2	66.2	64.8	67.5
Kusini Pemba	57.8	55.9	60.3	65.3	64.8	65.8

*Note: regions marked * were formed/created after the 2002 Census*

Chapter Three

Levels, Trends and Differentials in Infant and Child Mortality

3.0 Introduction

This chapter gives estimates of levels and trends as well as several differentials in infant, child and under-five mortality. These rates are important in measuring the country's health status and the quality of the life of its people. Childhood mortality estimates are used to identify vulnerable populations, particularly where data on the incidences and prevalence of diseases are not readily available. A main objective of this report is to provide early childhood mortality estimates as an input in monitoring and evaluation of health interventions as well as the national strategy towards improving welfare and health of its society.

The analysis will focus on data from 2012 PHC and other previous censuses. For comparison purposes, information from different national surveys undertaken during the period of ten years will be used. In addition, the level of child mortality ($_4q_1$) also will be taken into consideration. Progress towards national (MKUKUTA and MKUZA) and international goals (MGDs) set and achieved will be highlighted.

3.1 Measurement of Early Childhood Mortality

The rate of infant mortality ($_1q_0$) measures the number of children dying before reaching the age of one year per 1,000 live births in a given year. Child and under-five mortality measure the probability of child dying between age of 1 and 4 years ($_4q_1$) and from birth to 5 years ($_5q_0$), respectively. Survivorship of children on these ages is influenced by both biological and behavioural factors. Thus, early childhood mortality estimates reflect social, economic and environmental conditions and children's' health care.

Like previous censuses, the 2012 PHC had questions that provided data for both direct and indirect estimates of infant and child mortality. For direct estimation, census questions were asked about deaths which occurred within the household, age of the deceased and causes of death for the past 12 months prior to the night of the census date. Females aged 12-49 were asked to provide information about children born during the previous 12 months, whether each child was still alive and for those who died, age at death. For indirect estimation, census questions were asked about children ever born and children surviving. This report relies on indirectly estimated infant and child mortality rates because of the poor quality of data on deaths in the household from the 2012 Census.

3.2 Levels and Trends of Infant and Child Mortality

3.2.1 Levels of Infant and Child Mortality

Table 3.1 indicates the levels of early childhood mortality disaggregated by sex and area. The overall infant mortality rate (IMR) was estimated to be 46 deaths per 1,000 live births. Both Tanzania Mainland and Zanzibar had almost the same level of infant mortality. The observed rate implies that for every 100 newborn about five die before reaching their first birthday. Child and under-five mortality rates were estimated at 21 and 67 deaths per 1,000 live births, respectively. Like in other developing countries, the level of childhood mortality was still high which underscores the need to develop and implement programmes targeting children survival.

As expected, male children experienced higher mortality in infancy, childhood, and up to their fifth birthdays than females. Male IMR was 51 deaths per 1,000 live births while that of females was 41 deaths per 1,000 live births. The child mortality for male children was 23 and about 20 deaths per 1,000 live-births for female children. The mortality level for male children under five years of age was estimated at 73 deaths per 1,000 live births and 60 deaths for female children. Generally, both male and female childhood estimates for Tanzania Mainland and Tanzania Zanzibar follow the same pattern as that of Tanzania.

Table 3. 1: Infant, Child and Under-Five Mortality by Area and Sex, Tanzania 2012 Census

Administrative Area	Infant Mortality ($_1q_0$)			Child Mortality ($_4q_1$)			Under-Five Mortality ($_5q_0$)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Tanzania	46.2	50.9	41.3	21.3	23.0	19.7	66.5	72.7	60.2
Tanzania Mainland	46.2	50.9	41.3	21.3	23.0	19.6	66.5	72.7	60.1
Tanzania Zanzibar	46.4	51.0	41.6	22.0	23.6	20.4	67.4	73.3	61.2

3.3 Differentials in Infant and Child Mortality

3.3.1 Rural-Urban Differentials of Infant and Child Mortality

Table 3.2 presents infant and child mortality estimates for rural and urban areas of Tanzania. Overall, infant mortality estimates for the urban areas of Tanzania, Tanzania Mainland and Tanzania Zanzibar were higher than those of the corresponding rural areas. The infant mortality rate for Tanzania urban was estimated at 48.5 deaths per 1,000 live births and that of Tanzania rural was 46.0 deaths per 1,000 live births. Likewise, the infant mortality rates for Tanzania Mainland urban and Tanzania Zanzibar

urban were 47.8 and 48.4 deaths per 1,000 live births respectively while those of the corresponding rural areas were estimated at 45.3 and 44.9 deaths per 1,000 live births respectively. The 2012 PHC data show, in short, that levels of infant mortality in rural areas were lower than those in urban areas. This pattern is also noted for both males and females. Furthermore, under-five mortality rates and child mortality rates have similar rural-urban patterns to those observed for the infant mortality rates.

Table 3. 2: Rural-Urban Infant, Child and Under-Five Mortality by Sex, Tanzania 2012 Census

Administrative Area	Infant Mortality ($_1q_0$)			Child Mortality ($_4q_1$)			Under-5 Mortality ($_5q_0$)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Tanzania	**46.2**	**50.9**	**41.3**	**21.3**	**23.0**	**19.7**	**66.5**	**72.7**	**60.2**
Rural	46.0	50.5	41.3	20.9	22.4	19.3	65.9	71.8	59.9
Urban	48.5	53.9	42.9	23.9	25.9	21.8	71.2	78.4	63.8
Tanzania Mainland	**46.2**	**50.9**	**41.3**	**21.3**	**23.0**	**19.6**	**66.5**	**72.7**	**60.1**
Rural	45.3	49.7	40.7	20.6	22.1	19.1	64.9	70.6	59.0
Urban	47.8	53.1	42.3	23.6	25.6	21.5	70.2	77.3	62.9
Tanzania Zanzibar	**46.4**	**51.0**	**41.6**	**22.0**	**23.6**	**20.5**	**67.4**	**73.3**	**61.2**
Rural	44.9	49.5	40.1	20.4	22.0	18.7	64.3	70.4	58.0
Urban	48.0	55.5	40.4	23.5	27.3	19.5	70.3	81.3	59.1

3.3.2 Regional Differentials in Infant and Child Mortality

Table 3.3 and Map 3.1 and Map 3.2 present infant and child mortality estimates by administrative region. The analysis of 2012 Census data on child survivorship, significant differentials in early childhood mortality exist among the regions. While Tanzania's estimated IMR was 46.2 per 1,000 live births, the estimates for 13 out of the 30 administrative regions were below that of national average, the 16 regions had rates above the national average, and one region (Shinyanga) had the same rate as the national average. As was true in 2002, Arusha and Kilimanjaro regions reported the lowest levels of infant mortality rates (29.0 and 29.6 deaths per 1,000 live births, respectively). These were followed by Singida (32.4 deaths per1000 live births), Manyara (33.3 deaths per 1000 live births) and Simiyu (39.4 deaths per 1000 live births). Regions with highest level of infant mortality had the rates above the national level and ranged from 47.5 to 61.8 deaths per 1,000 live births.

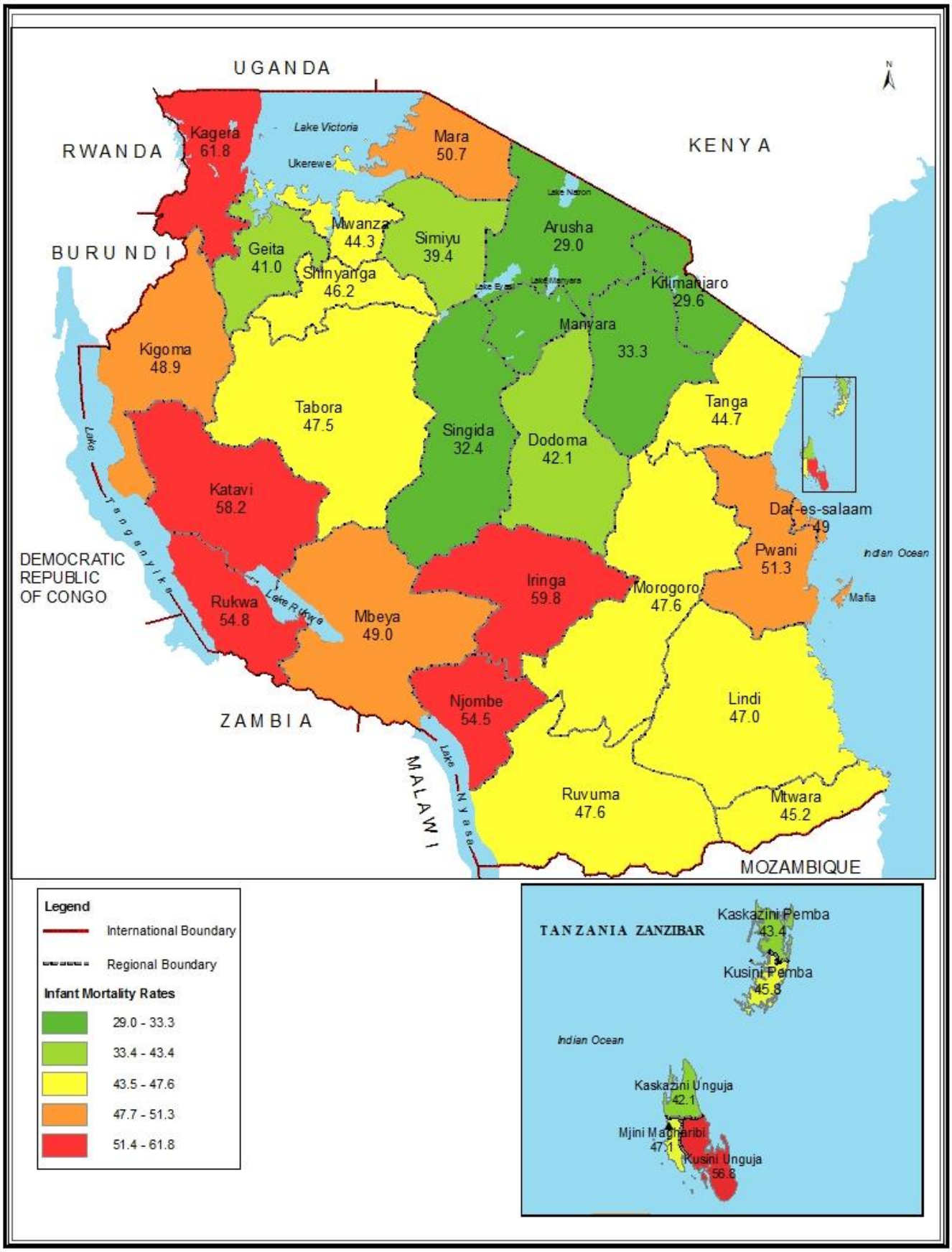
As with infant mortality, Arusha and Kilimanjaro reported the lowest levels of under-five mortality rates compared to other regions. Under-five mortality rates for Arusha and Kilimanjaro were estimated at 37.3 and 38.5 deaths per 1,000 live births respectively. The results show that out of the 30 regions, 13 regions had under-five mortality rates below the national figure of 66.5 deaths per 1,000 live births.

The remaining 17 regions recorded higher under-five mortality rates (between 66.7 and 93.9 under-five deaths per 1,000 live births). Overall, the 2012 PHC reveals that for Tanzania as a whole for every 100 live births nearly seven children die before reaching five years of age.

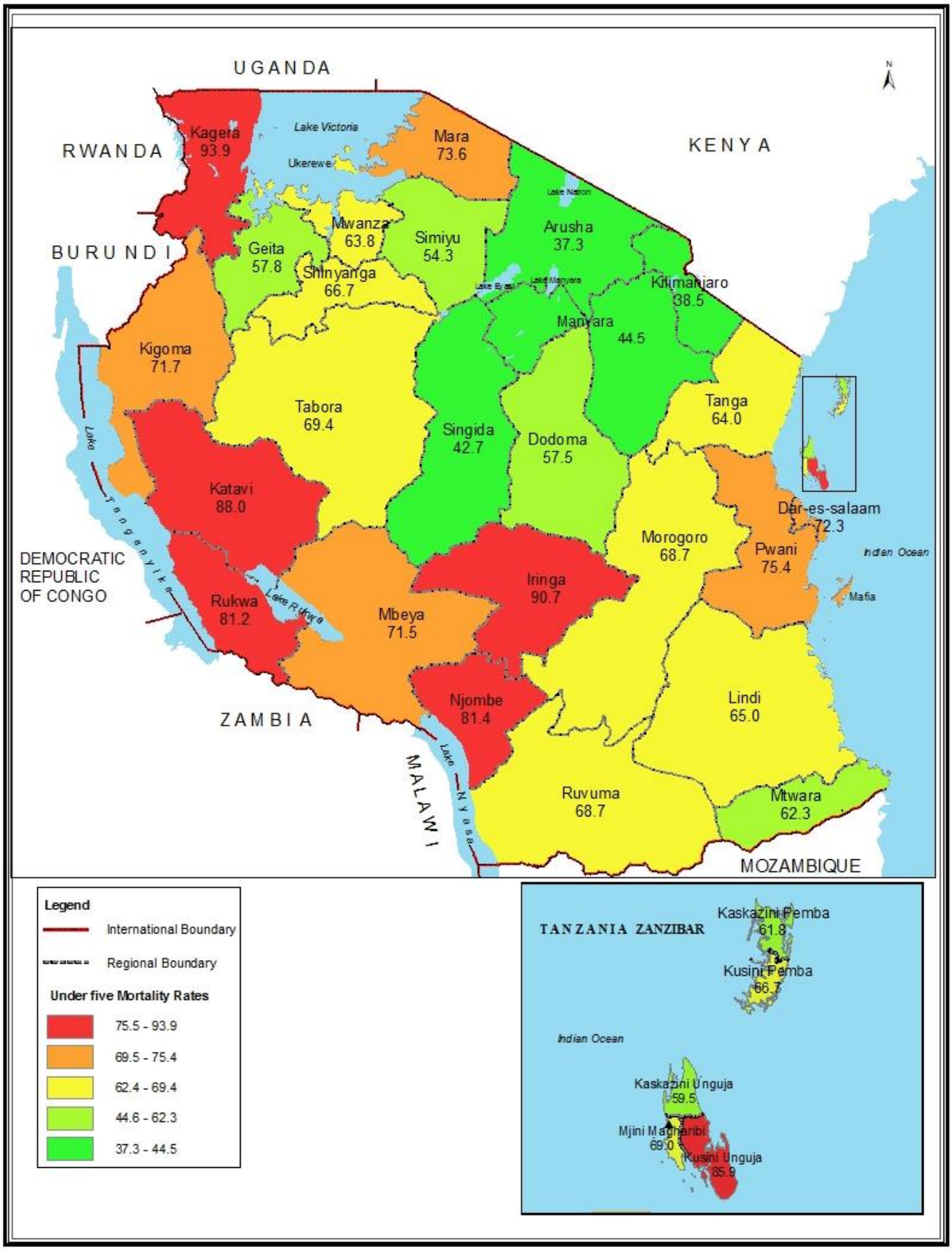
Table 3. 3: Infant, Child and Under-Five Mortality Rates by Region and Sex, Tanzania 2012 Census

Region	Infant Mortality ($_1q_0$)			Child Mortality ($_4q_1$)			Under-5 Mortality ($_5q_0$)		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Tanzania	**46.2**	**50.9**	**41.3**	**21.3**	**23.0**	**19.7**	**66.5**	**72.7**	**60.2**
Tanzania Mainland	**46.2**	**50.9**	**41.3**	**21.3**	**23.0**	**19.6**	**66.5**	**72.7**	**60.1**
Dodoma	42.1	47.5	36.5	16.1	18.8	13.4	57.5	65.5	49.4
Arusha	29.0	32.1	25.8	8.6	9.5	7.7	37.3	41.3	33.3
Kilimanjaro	29.6	31.8	27.3	9.2	9.3	9.0	38.5	40.8	36.1
Tanga	44.7	48.6	40.8	20.1	21.3	19.0	64.0	68.8	59.0
Morogoro	47.6	54.3	40.7	22.1	25.5	18.7	68.7	78.4	58.6
Pwani	51.3	57.0	45.5	25.3	27.6	23.0	75.4	83.1	67.4
Dar es Salaam	49.0	54.4	43.4	24.6	26.5	22.5	72.3	79.5	64.9
Lindi	47.0	56.5	37.2	19.0	24.9	12.8	65.0	80.0	49.5
Mtwara	45.2	52.3	38.0	18.0	21.9	13.9	62.3	73.0	51.4
Ruvuma	47.6	52.4	42.6	22.2	23.9	20.4	68.7	75.0	62.2
Iringa	59.8	66.6	52.7	33.0	35.8	30.0	90.7	100.0	81.2
Mbeya	49.0	53.7	44.2	23.7	25.1	22.2	71.5	77.5	65.5
Singida	32.4	35.6	29.2	10.6	11.6	9.7	42.7	46.8	38.6
Tabora	47.5	52.4	42.4	23.0	24.8	21.2	69.4	75.9	62.6
Rukwa	54.8	59.9	49.5	27.9	29.4	26.3	81.2	87.6	74.6
Kigoma	48.9	54.3	43.4	24.0	26.1	21.8	71.7	78.9	64.2
Shinyanga	46.2	50.8	41.5	21.6	23.1	20.0	66.7	72.7	60.6
Kagera	61.8	67.1	56.4	34.2	35.6	32.7	93.9	100.3	87.2
Mwanza	44.3	48.2	40.3	20.4	21.3	19.5	63.8	68.5	59.0
Mara	50.7	55.1	46.2	24.2	25.6	22.8	73.6	79.2	67.9
Manyara	33.3	37.7	28.9	11.6	13.4	9.7	44.5	50.6	38.3
Njombe	54.5	59.8	49.0	28.5	30.3	26.7	81.4	88.3	74.4
Katavi	58.2	64.2	52.0	31.7	33.9	29.4	88.0	95.9	79.9
Simiyu	39.4	41.8	37.0	15.4	15.2	15.6	54.3	56.4	52.1
Geita	41.0	44.1	37.7	17.6	17.9	17.2	57.8	61.2	54.3
Tanzania Zanzibar	**46.4**	**51.0**	**41.6**	**22.0**	**23.6**	**20.4**	**67.4**	**73.3**	**61.2**
Kaskazini Unguja	42.1	47.2	36.9	18.1	20.5	15.6	59.5	66.8	51.9
Kusini Unguja	56.8	63.4	50.1	30.8	33.5	28.0	85.9	94.8	76.7
Mjini Magharibi	47.1	53.6	40.4	23.0	26.1	19.8	69.0	78.3	59.4
Kaskazini Pemba	43.4	45.9	40.8	19.3	19.4	19.2	61.8	64.4	59.2
Kusini Pemba	45.8	46.0	45.6	21.9	19.6	24.3	66.7	64.7	68.8

Map 3. 1: Infant Mortality Rate by Region, Tanzania 2012 Census



Map 3. 2: Under-Five Mortality Rate by Region: Tanzania 2012 Census



3.3.3 Sex Differentials in Childhood Mortality within the Regions

As shown in Table 3.4, males had higher infant and under-five mortality rates than females. IMRs for males ranged between 31.8 deaths per 1,000 live births observed in Kilimanjaro and 67.1deaths per 1,000 live births in Kagera. The estimated infant mortality rates for females were between 25.8 deaths per 1,000 live births in Arusha region and 56.4 deaths per 1,000 live births in Kagera. The under-five mortality rates males ranged between 40.8 observed in Kilimanjaro region and 100.3 deaths per 1,000 live births found in Kagera. On the other hand, the under-five mortality rates for females between 33.3 deaths per 1,000 live births in Arusha region and 87.2 deaths per 1,000 live births in Kagera.

Table 3. 4: Sex Differentials in Infant and Under-Five Mortality by Region, Tanzania, 2012 Census

Region	Infant Mortality (1q0)		Under-Five Mortality ($_5q_0$)	
	Males	Females	Males	Females
Tanzania	**50.9**	**41.3**	**72.7**	**60.2**
Tanzania Mainland	**50.9**	**41.3**	**72.7**	**60.1**
Dodoma	47.5	36.5	65.5	49.4
Arusha	32.1	25.8	41.3	33.3
Kilimanjaro	31.8	27.3	40.8	36.1
Tanga	48.6	40.8	68.8	59.0
Morogoro	54.3	40.7	78.4	58.6
Pwani	57.0	45.5	83.1	67.4
Dar es Salaam	54.4	43.4	79.5	64.9
Lindi	56.5	37.2	80.0	49.5
Mtwara	52.3	38.0	73.0	51.4
Ruvuma	52.4	42.6	75.0	62.2
Iringa	66.6	52.7	100.0	81.2
Mbeya	53.7	44.2	77.5	65.5
Singida	35.6	29.2	46.8	38.6
Tabora	52.4	42.4	75.9	62.6
Rukwa	59.9	49.5	87.6	74.6
Kigoma	54.3	43.4	78.9	64.2
Shinyanga	50.8	41.5	72.7	60.6
Kagera	67.1	56.4	100.3	87.2
Mwanza	48.2	40.3	68.5	59.0
Mara	55.1	46.2	79.2	67.9
Manyara	37.7	28.9	50.6	38.3
Njombe	59.8	49.0	88.3	74.4
Katavi	64.2	52.0	95.9	79.9
Simiyu	41.8	37.0	56.4	52.1
Geita	44.1	37.7	61.2	54.3
Tanzania Zanzibar	**51.0**	**41.6**	**73.3**	**61.2**
Kaskazini Unguja	47.2	36.9	66.8	51.9
Kusini Unguja	63.4	50.1	94.8	76.7
Mjini Magharibi	53.6	40.4	78.3	59.4
Kaskazini Pemba	45.9	40.8	64.4	59.2
Kusini Pemba	46.0	45.6	64.7	68.8

3.3.4 Trends in Infant and Child Mortality (1978 – 2012)

Table 3.5 shows trend of two measures of early childhood mortality at national level based on different censuses from 1978 to 2012. Results from the 2012 PHC indicate that early childhood mortality in Tanzania is declining. The overall infant mortality decreased to 46 deaths per 1,000 live births in 2012 census from 137, 115 and 95 deaths per 1,000 live births in 1978, 1988 and 2002 censuses respectively. This means that, during the 34 years from 1978 to 2012, infant mortality was reduced by about two-thirds. During the same period, under-five mortality rate dropped to nearly 67 deaths in 2012 from 231 (1978), 191 (1988) and 153 (2002) deaths for every 1,000 live births. The results further reveal that childhood mortality for Tanzania Mainland follows a similar pattern as that of the nation.

Under the period of review, Tanzania Zanzibar also shows remarkable declines in both measures of child mortality. Infant mortality was reduced from 125 deaths in 1978 census to 120 deaths in 1988 Census, 89 deaths in 2002 Census and to 46 deaths per 1,000 live births in 2012 Census. Furthermore, the under-five mortality rate declined from 209 deaths in 1978 Census to 67 deaths per 1,000 live births in 2012 Census.

Table 3. 5: Trends in Infant and Under-Five Mortality Rates; for Tanzania, Tanzania Mainland and Tanzania Zanzibar, 1978 to 2012 Censuses

Census Year	Tanzania		Tanzania Mainland		Tanzania Zanzibar	
	IMR	U5MR	IMR	U5MR	IMR	U5MR
1978	137	231	137	271	125	209
1988	115	191	115	191	120	202
2002	95	153	95	154	89	141
2012	46	67	46	67	46	67

3.3.5 Trends in Infant and Under-Five Mortality in Rural and Urban Areas

Infant and under-five mortality rates for rural and urban areas of Tanzania are presented in Table 3.6. In the 2012 Census, the estimates of infant and under-five mortality rates were higher in urban than in rural areas of Tanzania, Tanzania Mainland and Tanzania Zanzibar. But, in the 2002 census, the estimates for the three areas were higher in rural than in urban areas. For example, rural Tanzania recorded an estimated infant mortality rate of 99 deaths per 1,000 live births and 78 deaths per 1,000 live in urban areas in 2002 while in 2012 census the infant mortality in urban areas (49 deaths per 1,000 live births) was higher than rural areas (46 deaths per 1,000 live births). A similar pattern was

also observed in Tanzania Mainland and Tanzania Zanzibar. Likewise, Tanzania had higher under-five mortality rates in urban areas (71 deaths per 1,000 live births) in 2012 than those observed in rural areas (66 deaths per 1,000 live births).

Table 3. 6: Trends in Infant and Under-Five Mortality Rates by Rural and Urban Areas, Tanzania, 2002 and 2012 Censuses

Administrative Area	IMR ($1q_0$)		U5MR ($_5q_0$)	
	2002	2012	2002	2012
Tanzania	95	46	153	67
Rural	99	46	162	66
Urban	78	49	123	71
Tanzania Mainland	**95**	46	**154**	67
Rural	99	45	162	65
Urban	78	48	123	70
Tanzania Zanzibar	**89**	**46**	**141**	**67**
Rural	98	46	159	67
Urban	67	48	105	71

3.3.6 Mortality Differentials by Socio-Economic Determinants

Socio-economic and demographic characteristics such as mother's age when giving birth, marital status, education, occupation and survival of preceding sibling(s) are frequently the most important determinants of infant and child mortality. All these factors are considered to have an impact on survivorship of the newborn. The discussion in this area focuses on marital status, mother's level of education and occupation in determining the level of childhood mortality. In this report, marital status is categorized into four groups: those never-married, married or living together, divorced or separated and widowed. Table 3.7 presents infant and under-5 mortality differentials for the different categories of selected socio-economic and demographic characteristics.

3.3.6.1 Differentials by Marital Status

Generally, the national mortality rate based for all four categories of marital status follows the same pattern. The rate for IMR ranges between 40.0 deaths to 52.7 deaths per 1,000 live births and 45.3 deaths to 78.5 deaths per 1,000 live births for under-five mortality. However, Zanzibar had the highest rates for women who were never married of 52.7 and 78.5 deaths per 1,000 live births among infants and under-5 respectively.

3.3.6.2 Differentials by Educational Attainment

Mother's education level enhances the survival of a child. The educational status of mothers is categorized as never attended (including pre-primary and nursery), primary, secondary and tertiary (those reaching post- secondary education). As expected, childhood mortality rate was higher among the never-attended women. The national IMR for mother who never attended school was 46.8 deaths per 1,000 live-births; this implies for every 100 newborn in Tanzania five of them died before reaching age one. The rate was slightly higher in Zanzibar (53.8 deaths per 1000 live-births). The situation remains the same for the deaths of under-five children of these mothers. Almost 67 Tanzanian children per 1000 live-births of this age die before celebrating their fifth birthday.

Unlike Tanzania Mainland where the pattern of mortality follows the same as the national ones; for Zanzibar the higher the education attainment of the mother, the lower the mortality rate. The IMR for mother's who attained tertiary level is 32.2 deaths and 42.1 deaths per 1000 live-births for Zanzibar and Mainland, respectively.

3.3.6.3 Differentials by Main Occupation

Infant and under-five mortality rates were found to vary with the occupation of the women in Tanzania, Tanzania Mainland and Tanzania Zanzibar. Table 3.7 shows variations of the infant and under-five mortality rates according to the main occupation of women of age 15-49 years. Occupation groups analysed were:

i. Professional, Managers and Technicians
ii. Small Business, Service and Sales, and Crafts
iii. Agriculture
iv. Street Vendors
v. Elementary Occupation
vi. Not Working

There was a marked difference between the infant and under-5 mortality rates of the women who were "Not-Working" and the "Street Vendors" categories. Women in the "Street Vendors" category had IMRs of 42.9 in Tanzania and 42.8 in Tanzania Mainland and under-five mortality rates of 61.0 in Tanzania and 60.7 in Tanzania Mainland, which were less than other categories in both Tanzania and Tanzania Mainland.

In Tanzania, women who were in the "Not-Working" category had higher infant and under-five mortality rates than the rest with 49.3 and 72.5 children per every 1000 live births respectively. The same situation was found in Tanzania Mainland where the women who were in the "Not-Working" category had higher infant and under-five mortality rates than other categories, with 49.4 and 72.5 deaths per 1000 live births, respectively.

The situation was different in Tanzania Zanzibar as the women who were in the "Street Vendors" category had the highest infant and under-five mortality rates of 49.1 and 72.1 deaths per 1000 live births, respectively. Women in "Elementary Occupations" had the lowest infant and under-five mortality rates of 39.2 and 53.8 deaths per every 1000 live births, respectively.

Table 3. 7: Infant and Under-Five Mortality Rates by Marital Status, Education Attainment and Occupation of the Mothers, Tanzania, 2012 Census

Socio Economic/Demographic Characteristics	Tanzania		Tanzania Mainland		Tanzania Zanzibar	
	IMR	U5MR	IMR	U5MR	IMR	U5MR
Marital Status						
Never Married	46.8	66.6	46.7	66.3	52.7	78.5
Married/Living Together	43.6	62.1	43.6	62.1	45.3	65.3
Divorced/Separated	40.6	57.1	40.0	56.0	43.5	62.4
Widowed	41.6	65.4	42.1	66.5	31.6	45.3
Education Attainment						
Never Attended	46.8	66.6	46.6	66.3	53.8	80.7
Primary	44.6	64.1	44.6	64.1	46.3	67.2
Secondary	44.7	64.8	44.8	64.9	44.4	64.2
Tertiary	41.6	65.4	42.1	66.4	32.2	46.6
Occupation Status						
Professional, Managers, Technicians	45.8	66.6	46.0	67.0	40.4	56.9
Small Business, Service and Sales, Crafts	47.7	69.8	47.9	70.2	43.1	61.3
Agriculture	43.9	62.1	43.9	62.1	45.3	64.9
Street Vendors	42.9	61.0	42.8	60.7	49.1	72.1
Elementary Occupation	46.2	66.2	46.4	66.7	39.2	53.8
Not Working	49.3	72.5	49.4	72.5	48.3	71.0

3.4 Changes in Infant and Under-Five Mortality: Tanzania 2002 and 2012 Censuses

Table 3.8 shows the percentage change and average annual change in infant and under-five mortality from the 2002 Census to the 2012 Census. At the national level, the percentage change in infant mortality was 51.4 with an average annual decline of 4.9 infant deaths per 1,000 live births. The change in mortality for children under-five years of age was 56.5 percent whereas the average annual decline was 8.7 deaths per 1,000.

During the same period, reduction of mortality for children under-one year for Tanzania Mainland was 51.4 deaths per 1,000 live births and 47.9 deaths per 1,000 live births for Tanzania Zanzibar at an average annual change of 4.9 and 4.3 deaths per 1,000, respectively. Percentage change in under-five mortality was 59.0 for Tanzania Mainland and 52.2 for Tanzania Zanzibar at an average annual change (reduction) of 9.6 and 7.4 deaths per 1,000, respectively. Significant level of achievement has been made in under-five mortality where the percentage reduction between two censuses was slightly more than fifty percent.

Table 3. 8: Percentage Change of Infant and Under-Five Mortality for Tanzania, Tanzania Mainland, Tanzania Zanzibar: Tanzania 2002 and 2012 Censuses

Area	Infant Mortality		% Change	Average Annual Change in IMR	Under-five Mortality		% Change	Average Annual Change in U5MR
	2002	2012			2002	2012		
Tanzania	**95**	**46.2**	**-51.4**	**-4.9**	**153**	**66.5**	**-56.5**	**-8.7**
Rural	99	46.0	-53.5	-5.3	162	65.9	-59.3	-9.6
Urban	78	48.5	-37.8	-3.0	123	71.2	-42.1	-5.2
Tanzania Mainland	**95**	**46.2**	**-51.4**	**-4.9**	**154**	**66.5**	**-59.0**	**-9.6**
Rural	99	45.3	-54.2	-5.4	162	64.9	-59.9	-9.7
Urban	78	47.8	-38.7	-3.0	123	70.2	-42.9	-5.3
Tanzania Zanzibar	**89**	**46.4**	**-47.9**	**-4.3**	**141**	**67.4**	**-52.2**	**-7.4**
Rural	98	46.4	-52.7	-5.2	159	67.1	-57.8	-9.2
Urban	67	48.4	-27.8	-1.9	105	71.1	-32.3	-3.4

The regional percentage change in IMR and U5MR over the period 2002 to 2012 and the corresponding average changes per annum are given in Table 3.9. Out of 26 regions (excluding 4 newly formed regions), 15 regions reduced infant mortality by more than 50 percent. These regions are Kaskazini Unguja (68.1 percent), Kaskazini Pemba (66.1 percent), Mtwara (64.1 percent), Lindi (63.6 percent), Dodoma (63.1 percent), Kusini Pemba (62.8 percent), Singida (60.5 percent), Mjini

Magharibi (57.9 percent), Mara (55.1 percent), Tanga (54.4 percent), Ruvuma (54.2 percent), Kusini Unguja (52.7 percent), Morogoro (52.4 percent), Manyara (51.7 percent) and Mbeya (51.5 percent). The percentage change for the remaining regions ranges between 29.3 percent (Arusha) and 49.8 percent in Shinyanga region.

In respect to the under-five mortality, 22 regions managed to achieve a convincing reduction in under-five mortality of between 51.6 and 70.6 percent. The eight regions with less reductions (below 50 percentage) in under-five mortality include: Arusha (35.7 percent) Mjini Magharibi (36.7 percent), Kusini Unguja (39.1 percent),), Dar es Salaam (41.2 percent), Kilimanjaro (42.5 percent), Iringa (45.4 percent), Tabora (47.8 percent) and Kagera (48.4 percent). Some regions had reductions of under-five mortality rate that were 60 percent or more. These are Tanga (60.5 percent), Mara (60.9 percent), Kaskazini Pemba (62.8 percent), Kaskazini Unguja (65.0 percent), Singida (67.7 percent), Dodoma (69.9 percent), Lindi (70.0 percent) and Mtwara (70.6 percent).

Table 3. 9: Percentage Change of Infant and Under-Five Mortality by Region, Tanzania, 2002 and 2012 Censuses

Region	Infant Mortality		% Change	Average Annual change in IMR	Under five Mortality		% Change	Average Annual change in U5MR
	2002	2012			2002	2012		
Tanzania	**95**	**46.2**	**-51.4**	**-4.9**	**153**	**66.5**	**-56.5**	**-8.6**
Tanzania Mainland	**95**	**46.2**	**-51.4**	**-4.9**	**154**	**66.5**	**-56.8**	**-9.6**
Dodoma	114	42.1	-63.1	-7.2	191	57.5	-69.9	-13.3
Arusha	41	29.0	-29.3	-1.2	58	37.3	-35.7	-2.1
Kilimanjaro	46	29.6	-35.7	-1.6	67	38.5	-42.5	-2.9
Tanga	98	44.7	-54.4	-5.3	162	64.0	-60.5	-9.8
Morogoro	100	47.6	-52.4	-5.2	163	68.7	-57.9	-9.4
Pwani	101	51.3	-49.2	-5.0	166	75.4	-54.6	-9.1
Dar es Salaam	79	49.0	-38.0	-3.0	123	72.3	-41.2	-5.1
Lindi	129	47.0	-63.6	-8.2	217	65.0	-70.0	-15.2
Mtwara	126	45.2	-64.1	-8.1	212	62.3	-70.6	-15.0
Ruvuma	104	47.6	-54.2	-5.6	171	68.7	-59.8	-10.2
Iringa	102	59.8	-41.4	-4.2	166	90.7	-45.4	-7.5
Mbeya	101	49.0	-51.5	-5.2	165	71.5	-567	-9.4
Singida	82	32.4	-60.5	-5.0	132	42.7	-67.7	-8.9
Tabora	83	47.5	-42.8	-3.6	133	69.4	-47.8	-6.4
Rukwa	106	54.8	-48.3	-5.1	175	81.2	-53.6	-9.4
Kigoma	92	48.9	-46.8	-4.3	148	71.7	-51.6	-7.6
Shinyanga	92	46.2	-49.8	-4.6	149	66.7	-55.2	-8.2
Kagera	110	61.8	-43.8	-4.8	182	93.9	-48.4	-8.8
Mwanza	87	44.3	-49.1	-4.3	139	63.8	-54.1	-7.5
Mara	113	50.7	-55.1	-6.2	188	73.6	-60.9	-11.4
Manyara	69	33.3	-51.7	-3.6	107	44.5	-58.4	-6.3
Njombe *	--	54.5	--	--	--	81.4	--	--
Katavi *	--	58.2	--	--	--	88.0	--	--
Simiyu *	--	39.4	--	--	--	54.3	--	--
Geita *	--	41.0	--	--	--	57.8	--	--
Tanzania Zanzibar	**89**	**46.4**	**-47.9**	**-4.3**	**141**	**67.4**	**-52.2**	**-7.4**
Kaskazini Unguja	132	42.1	-68.1	-9.0	170	59.5	-65.0	-11.1
Kusini Unguja	120	56.8	-52.7	-6.3	141	85.9	-39.1	-5.5
Mjini Magharibi	112	47.1	-57.9	-6.5	109	69.0	-36.7	-4.0
Kaskazini Pemba	128	43.4	-66.1	-8.5	166	61.8	-62.8	-10.4
Kusini Pemba	123	45.8	-62.8	-7.7	154	66.7	-56.7	-8.7

Note:

1. **** - New Regions: Njombe, Katavi, Simiyu and Geita are new administrative regions formed in 2012***
2. ***Childhood Mortality Rates at District level are available in Appendix 2***
3. ***"Average annual change" in IMR or U5MT is the average annual reduction in infant or under-5 deaths per 1,000 live birth from 2002 to 2012***

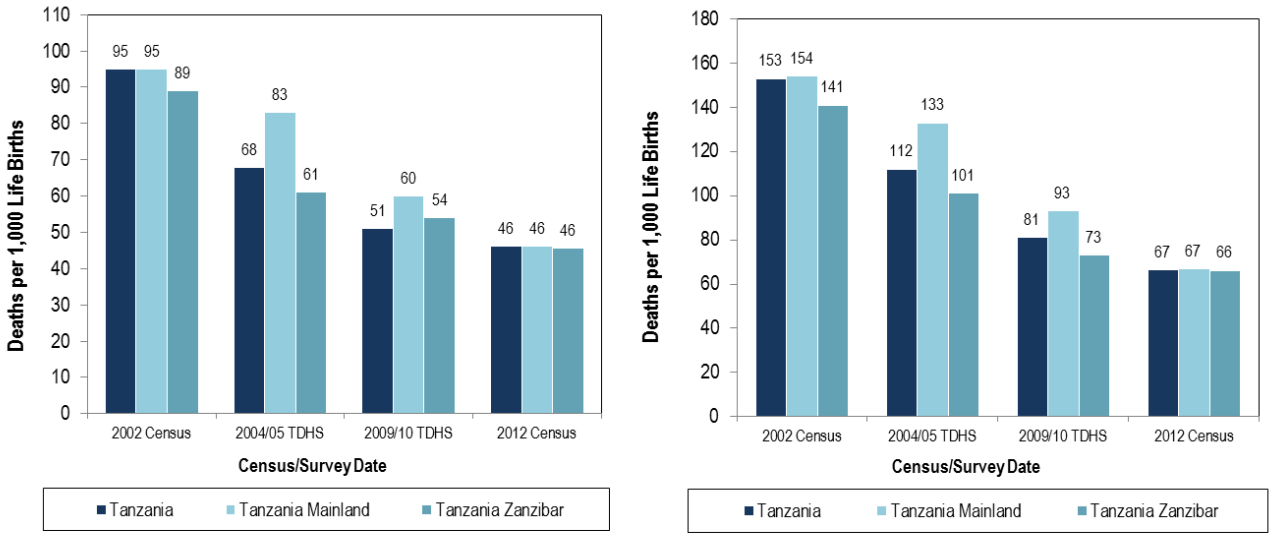
3.5 Comparison with other Sources and other Countries

3.5.1 Comparison of Level of Early Childhood Mortality between Censuses and Surveys

Figure 3.2 shows childhood mortality estimates obtained from censuses and surveys undertaken in Tanzania from 2002 to 2012. Two national surveys (2004/05 TDHS and 2009/10 TDHS) were conducted before the 2012 Census. The obtained information shows that there was a downward trend in early childhood mortality (infant and under-five) between the two censuses. Rapid declines of childhood mortality indicators were observed; at national level, infant mortality rate went down from 95 deaths per 1,000 live births in 2002 Census to 46 deaths in 2012 Census, in other words, more than half of infant deaths were reduced within the 10 year period.

The under-five mortality rate from 2012 Census stands at 67 for Tanzania, Tanzania Mainland and Tanzania Zanzibar which is a decline from 153, 154 and 141 deaths per 1,000 live births for Tanzania, Tanzania Mainland and Tanzania Zanzibar respectively.

Figure 3. 1: Infant and Under-Five Mortality Rates from Censuses and Surveys for Tanzania, Tanzania Mainland and Tanzania Zanzibar, Tanzania, 2002 and 2012 Censuses and 2004/05 and 2009/10 DHSs



Source: Tanzania 2002 and 2012 Population and Housing Censuses and 2004/05 and 2009/10 Tanzania Demographic and Health Surveys

3.5.2 Comparison with Other Countries

The levels of infant and under-five mortality rates for Tanzania in comparison with some other African countries are presented in Table 3.10. According to a UN Inter-Agency Group for Child Mortality Estimation report (2011), the infant mortality rate of Tanzania was estimated to be 50 deaths per 1,000 live births in 2010, which was significantly lower than those of Kenya, Uganda, Zambia, Malawi and Burundi. As revealed by the 2012 PHC, Tanzanian infant mortality dropped to 46 deaths per 1,000 live births.

Furthermore, the estimated under-five mortality rate for Tanzania for the year 2010 was 76 deaths per 1,000 live births which was also lower than rates in the mentioned countries. The results from the 2012 census show further decline in under-five mortality to 67 deaths per every 1,000 live births.

Table 3. 10: Infant and Under-Five Mortality Rates from Other African Countries

Country	Infant Mortality		Under-Five Mortality			
	1990	2010	1990	2010	2015 MDG Target	Average Annual Rate of Reduction (%) 1990-2010
Tanzania	95	50	155	76	52	3.6
Kenya	64	55	99	85	33	0.8
Uganda	106	63	175	99	58	2.8
Zambia	109	69	183	111	61	2.5
Malawi	131	58	222	92	74	4.4
Burundi	110	88	183	142	61	1.3

Source: UN Inter-Agency Group for Child Mortality Estimation, Levels & Trends in Child Mortality; 2011

Chapter Four

Levels and Patterns of Maternal Mortality

4.0 Introduction

This chapter presents information on maternal mortality in Tanzania. Maternal mortality is widely regarded as key indicator of a population's health and of a society's development. The estimation of maternal mortality serves the needs of health sector by identifying population groups that are at high risk. A number of interventions are taken by the government of Tanzania through Ministry of Health aiming at reducing the deaths of pregnant women, such as increasing the coverage of deliveries attended by skilled health personnel; the number of health facilities providing neonatal, child and maternal health services to the lowest of health facilities; and expansion of Emergency Obstetric Care (EMOC) coverage.

Maternal mortality indicators obtained from the 2012 Population and Housing Census provide an opportunity to monitor and evaluate health programs. Moreover, these indicators will be used in assessing progress in achieving the objectives of the National Strategy for Growth and Reduction of Poverty II (NSGRP II), the Zanzibar Strategy for Growth and Reduction of Poverty II (ZSGRP II); and also in assessing progress towards achievement of the Millennium Development Goals (MDGs) of improving maternal health (Goal number five) as we understand that Tanzania has its own goal and target in reducing maternal mortality ratio by 2015.

Given the shortcomings of civil registration in many Sub-Saharan countries and sample-based methodologies, it has been suggested that census measurement could be more appropriate for producing acceptably precise, cost-effective estimates of maternal mortality and worth further exploration (Hill, Stanton and Gupta, 2001). Tanzania included maternal mortality questions in the 2012 Census questionnaires for the first time in the history of conducting population and housing censuses. Before that, the maternal mortality data were estimated by using information collected from Demographic and Health Surveys (DHSs). The first data on maternal mortality using survivorship, the age of surviving siblings, the age at death of siblings who died, and the number of years since the sibling died were collected in the 1996 Tanzania Demographic and Health Survey (TDHS). This method allows the data to be aggregated to determine the number of person-years of exposure to mortality and the number of deaths which have occurred to siblings in a particular calendar year. According to Rutenberg and Sullivan (1991), it is possible to compute maternal mortality rates by

dividing maternal deaths by person-years of exposure. Two subsequent demographic surveys which collected maternal mortality data were in the 2004/05 TDHS and 2010 TDHS.

4.1 Data Used and there Quality

The maternal mortality data were taken from the 2012 Population and Housing Census. Respondents in all households were asked whether any deaths occurred in the household in the last 12 months prior to the census reference date and if so, the sex and age of the deceased at the time of death, and the cause of death. To establish whether deaths were pregnancy-related, respondents were further asked questions for women who died between age 12 and 49 years: "Did the death occur during pregnancy?"; and if not, "Did the death occur during childbirth?"; and if not, "Did the death occur during the 6 weeks period following the end of a pregnancy or childbirth, irrespective of the way the pregnancy ended?".

The questions on fertility were directed to all females aged 12 years and above, who were asked if they had biological children living in the household, living elsewhere and children dead. From these three questions, the number of children ever born and children surviving were obtained. To obtain current fertility, women aged 12 to 49 years were asked additional questions about the number of children born alive in the last 12 months and the number of children who were still alive. This information allowed for the estimation of maternal mortality rates, age-specific maternal deaths and maternal mortality ratio.

Maternal mortality estimation requires accurate reporting of the number of females who have died and the number of females who have died of maternity-related causes (to estimate maternal mortality indices). Although efforts have been made to collect complete and accurate data on mortality, common problems of census in developing countries, such as over-reporting, under-reporting of deaths, age-misreporting and wrong dating of events had to be tackled in this analysis.

4.2 Reported Female Deaths, Pregnancy-Related Deaths and Births

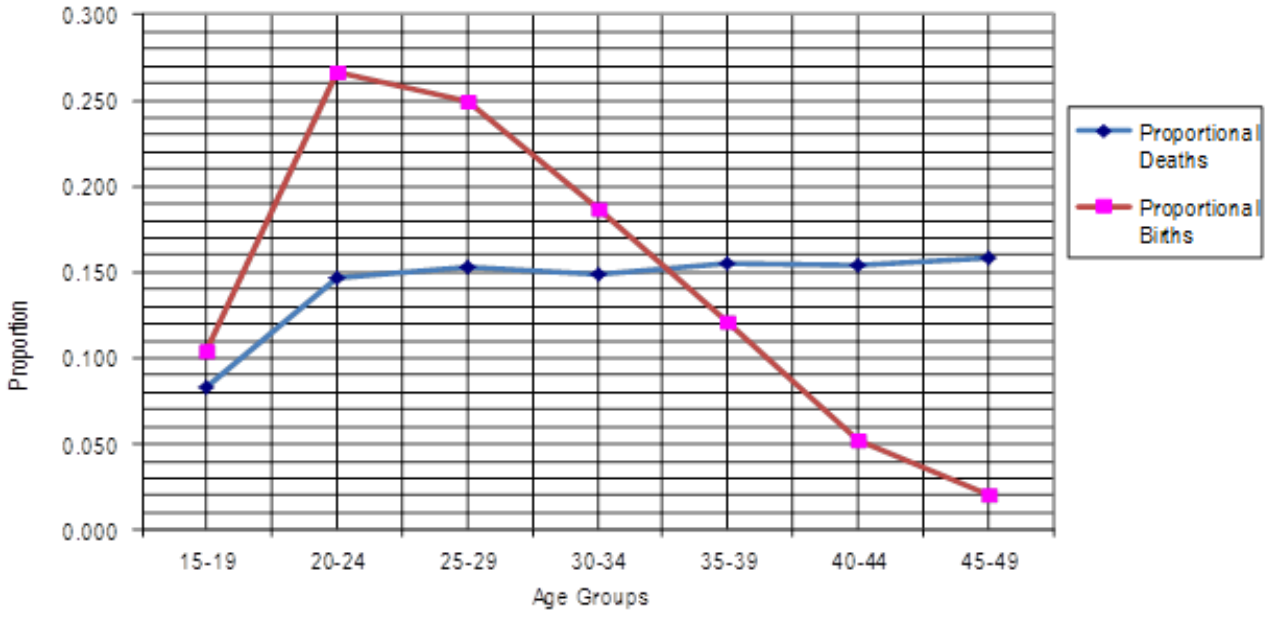
Table 4.1 provides the information on female deaths, pregnancy-related deaths and births in the 12 months prior to the 2012 Population and Housing Census reference date. The results reveal that, out of the 56,178 female deaths that occurred in the households, 15,056 deaths were pregnancy-related.

Table 4. 1: Pregnancy-Related Deaths, Tanzania, 2012 Census

Age Group	Female Deaths			Births		Pregnancy Related to Total Deaths
	Total Female Deaths	Pregnancy Related	Proportion Pregnancy-Related	Number of Births	Proportion of Births	
15-19	4,333	1,250	0.083	166,488	0.104	0.288
20-24	5,547	2,211	0.147	426,485	0.266	0.399
25-29	7,112	2,300	0.153	399,821	0.250	0.323
30-34	8,536	2,244	0.149	298,876	0.187	0.263
35-39	10,495	2,343	0.156	194,146	0.121	0.223
40-44	9,613	2,324	0.154	83,241	0.052	0.242
45-49	10,542	2,384	0.158	32,356	0.020	0.226
Total	**56,178**	**15,056**	**1.000**	**1,601,413**	**1.000**	**0.268**

Figure 4.1 shows the relationship between the proportion of births and pregnancy-related deaths. The proportion of births and deaths were higher at younger ages although there were more births than deaths. The proportion of births reached its peak among women of 20-24 age group, and fell gradually from 25-29 age group onwards. Of note, the proportion of deaths that were pregnancy-related were about the same among women of 20-24 to 30-34 age groups, then increased slightly at higher ages.

Figure 4. 1 Proportional Deaths and Births, Tanzania, 2012 Census



4.3 Estimates of Maternal Mortality

Maternal mortality is usually measured by three indicators, namely maternal mortality ratio, maternal mortality rate and lifetime risk (LTR). The most commonly used measure, however, is the maternal mortality ratio (MMR). This is the number of women who die from maternal causes per 100,000 live births. However, the computed estimates in this report are MMR and LTR. The maternal mortality estimation was done by using a maternal mortality package developed by the World Health Organization (WHO 2014). The Generalized Growth Balance technique and the Synthetic Extinct Generations method were applied to evaluate the census information on reported household deaths, estimating the completeness of reporting of deaths over age 5 years by comparing the age distribution of deaths to the age distribution of the population.

These techniques assume that the population has stable characteristics: mortality and fertility were constant during the past, and there was no migration. They assume that completeness of death registration is the same for all age groups; such as 5-years age groups or 10-years age groups and that there is no age misreporting of the population or of deaths. The two techniques provide information on the quality of the death data and permit adjustment in cases where estimated completeness is less than 100 percent. Pregnancy-related maternal deaths are then adjusted using the inverse of the estimated proportion complete. The adjusted maternal deaths for Tanzania are presented in Table 4.2.

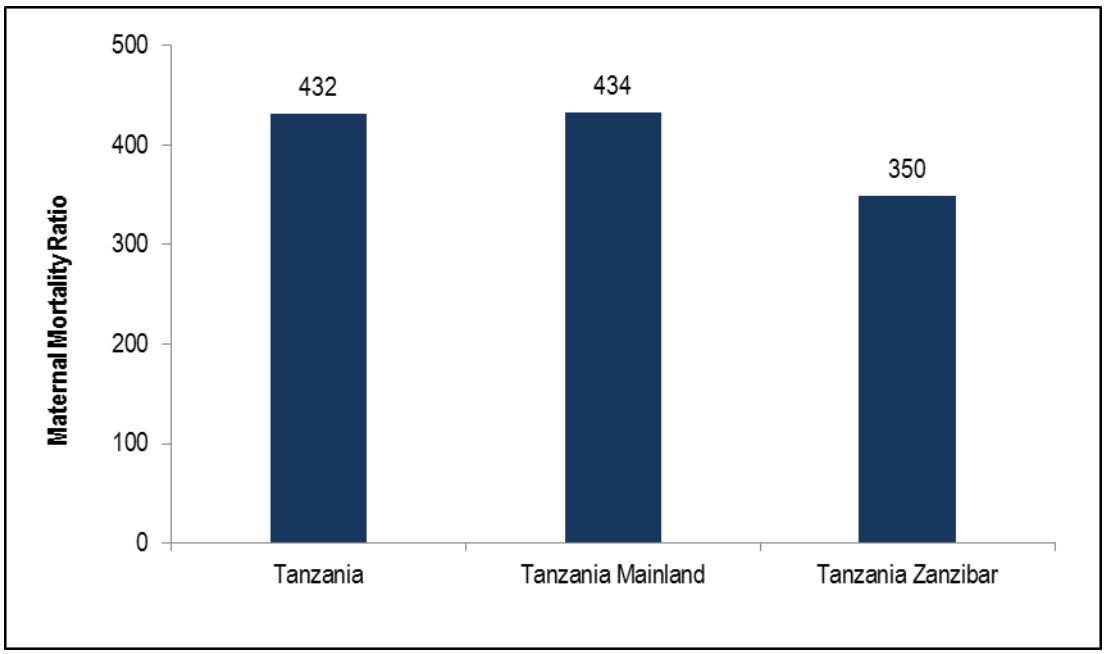
Table 4.2 presents the maternal mortality ratio for Tanzania, estimated as 432 maternal deaths per 100,000 live births. In other words, for every 1,000 live births in Tanzania during this period, about 4 women died of pregnancy-related causes. The comparison of maternal mortality ratio between urban and rural areas (Table 4.3) show that urban mortality (443 deaths per 100,000 live births) was higher than rural mortality (336 deaths per 100,000 live births).

Figure 4. 2 Maternal Mortality Ratio by 5-year Age Groups, Tanzania, 2012 Census

Age Group	Adjusted Deaths	Adjusted Pregnancy Related Deaths	Adjusted Births	Maternal Mortality Ratio	Maternal to Total Deaths
15-19	3,195	687	201,644	341	0.215
20-24	4,412	1,215	538,582	226	0.275
25-29	5,986	1,263	491,082	257	0.211
30-34	6,321	1,233	348,694	354	0.195
35-39	6,035	1,287	211,917	607	0.213
40-44	4,876	1,277	91,143	1401	0.262
45-49	4,397	1,310	32,154	4074	0.298
Total	**35,222**	**8,271**	**1,915,215**	**432**	**0.235**

Table 4.4 and Figure 4.2 show maternal mortality ratio for Tanzania, Tanzania Mainland and Tanzania Zanzibar. The maternal mortality ratio for Tanzania Mainland was estimated as 434 deaths per 100,000 live births which is significantly higher than the estimate for Tanzania Zanzibar (307 deaths per 100,000 live births).

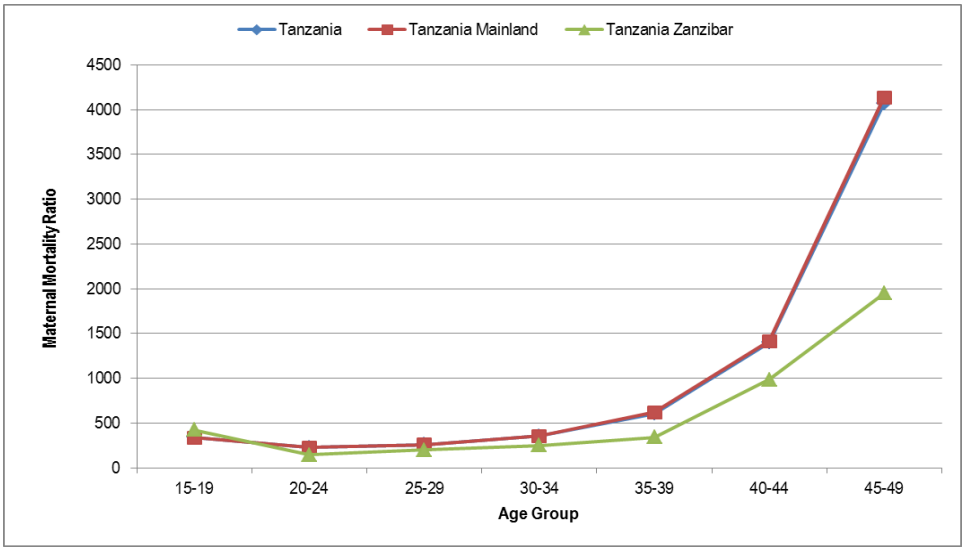
Figure 4. 3 Maternal Mortality Ratio, Tanzania, 2012 Census



Age specific maternal mortality ratio is presented in Figure 4.3. In general, maternal mortality ratio increases with age; women with higher ages have higher maternal mortality ratios than those at lower ages. The ratio for 20-24 age group was much lower than those of other age groups, then the ratio increases slightly to 30-34 age group. The oldest age groups had higher mortality ratios. A similar pattern was observed in Tanzania Mainland. With the exception of 15-19 age group, maternal mortality ratio was lower in Tanzania Zanzibar than in Tanzania Mainland.

The maternal mortality ratio among teenagers (15-19 years) was higher in Tanzania (341 deaths per 100,000 live births) Tanzania Mainland (339 deaths per 100,000 live births) but lower in Tanzania Zanzibar (424 deaths per 100,000 live births).

Figure 4. 4 Maternal Mortality Ratio by Age Group, Tanzania, 2012 Census



Note: Tanzania and Tanzania Mainland overlapping

Table 4. 2: Maternal Mortality Ratios by Age Group and Rural-Urban Areas, Tanzania, 2012 Census

Age Group	Tanzania				Rural				Urban			
	Adjusted Maternal Deaths	Adjusted Births	Materna to Total Deaths	Maternal Mortality Ratio	Adjusted Maternal Deaths	Adjusted Births	Maternal to Total Deaths	Maternal Mortality Ratio	Adjusted Maternal Deaths	Adjusted Births	Maternal to Total Deaths	Maternal Mortality Ratio
15-19	687	201,644	0.215	341	412	163,822	0.199	252	170	42,301	0.254	401
20-24	1,215	538,582	0.275	226	755	418,243	0.285	181	282	131,422	0.254	214
25-29	1,263	491,082	0.211	257	792	377,043	0.228	210	288	123,566	0.179	233
30-34	1,233	348,694	0.195	354	735	272,536	0.197	270	309	82,336	0.186	375
35-39	1,287	211,917	0.213	607	794	172,510	0.220	460	303	43,062	0.195	703
40-44	1,277	91,143	0.262	1,401	795	77,108	0.268	1031	295	15,586	0.245	1893
45-49	1,310	32,154	0.298	4,074	792	27,087	0.281	2924	319	5,517	0.332	5,788
Total	**8,271**	**1,915,215**	**0.235**	**432**	**5,075**	**1,508,349**	**0.238**	**336**	**1,965**	**443,791**	**0.224**	**443**

Note: MMR = Adjusted maternal deatsh divide by adjusted births and multiplied by 100,000

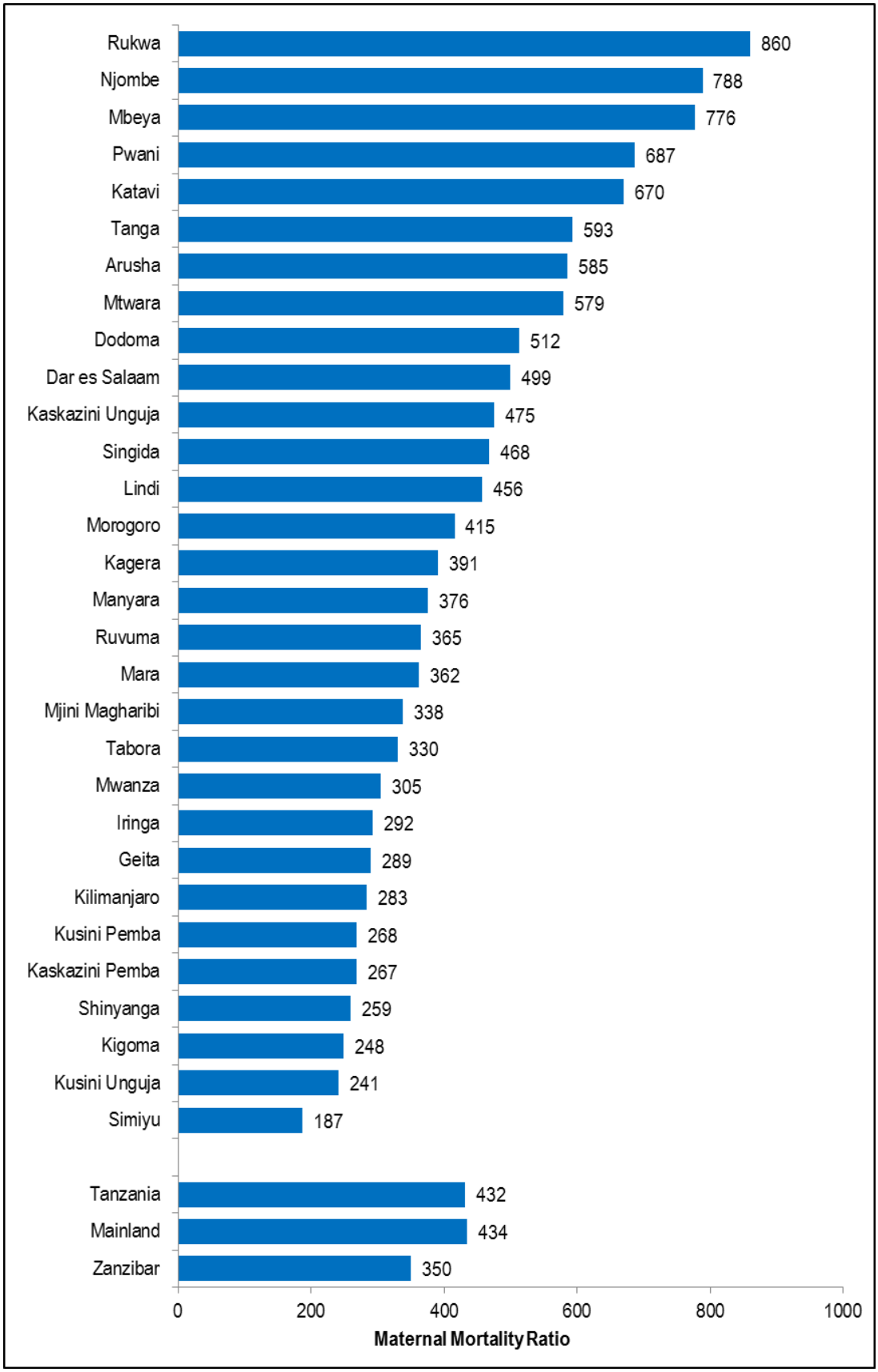
Table 4. 3: Maternal Mortality Ratios by Age Group, Tanzania, 2012 Census

Age Group	Tanzania				Tanzania Mainland				Tanzania Zanzibar			
	Adjusted Maternal Deaths	Adjusted Births	Maternal to Total Deaths	Maternal Mortality Ratio	Adjusted Maternal Deaths	Adjusted Births	Maternal to Total Deaths	Maternal Mortality Ratio	Adjusted Maternal Deaths	Adjusted Births	Maternal to Total Deaths	Maternal Mortality Ratio
15-19	687	201,644	0.215	341	673	198,651	0.214	339	13	3,061	0.265	424
20-24	1,215	538,582	0.275	226	1,196	525,880	0.276	227	18	12,825	0.254	140
25-29	1,263	491,082	0.211	257	1,233	476,319	0.209	259	30	14,773	0.332	203
30-34	1,233	348,694	0.195	354	1,203	337,109	0.194	357	29	11,554	0.240	251
35-39	1,287	211,917	0.213	607	1,258	203,467	0.212	618	29	8,390	0.270	346
40-44	1,277	91,143	0.262	1,401	1,245	87,997	0.260	1,415	31	3,140	0.373	987
45-49	1,310	32,154	0.298	4,074	1,291	31,209	0.301	4,137	18	945	0.185	1,905
Total	**8,271**	**1,915,215**	**0.235**	**432**	**8,099**	**1,860,632**	**0.234**	**434**	**168**	**54,687**	**0.271**	**350**

4.4. Regional Differentials in Maternal Mortality

Figure 4.4 shows estimated maternal mortality ratio by region. The results reveal that there were marked differences in maternal mortality ratio across regions ranging from 860 deaths per 100,000 live births in Rukwa region to 187 deaths per 100,000 live births in Simiyu region. Regions with MMR of more than 500 deaths per 100,000 live births were; Rukwa (860), Njombe (788), Mbeya (776), Pwani (687), Katavi (670), Tanga (593), Arusha (585), Mtwara (579) and Dodoma (512). Simiyu region reported the lowest MMR of 187 deaths per 100,000 live births.

Figure 4. 5 Estimated Maternal Mortality Ratio by Region, Tanzania, 2012 Census



4.5 Lifetime Risk

Lifetime Risk (LTR) reflects the risk that a woman who would otherwise survive to age 49 will die of maternal causes at some point during her reproductive lifespan, given current rates of maternal mortality and fertility. The calculation of Lifetime Risk then, requires consideration of competing risks, and thus level of overall mortality. The Lifetime Risk is calculated by:

LTR = MMRatio*35

Where MMR = Maternal Mortality Ratio

Note: average number of years lived between ages 14 and 50 – up to a maximum of 35 years – among survivors to age 15).

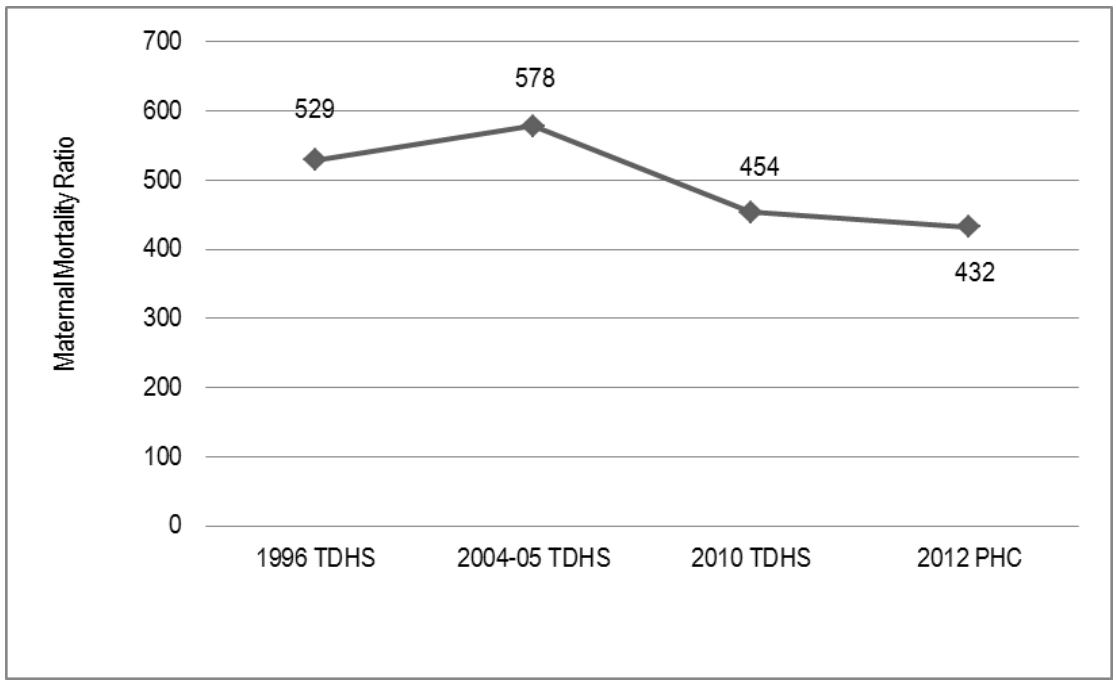
Maternal Mortality rate is obtained by multiplying the adjusted maternal deaths by the length of the reproductive lifetime (15-49). About 3 women per 1,000 of reproductive age in Tanzania have the risk of dying from maternal causes. The lifetime risk was lower for Tanzania Zanzibar (about 2 women). The maternal risk was higher in rural areas, where about 3 women per 1,000 of that age have the risk of dying of maternal causes, as compared with about 2 women per 1,000 in urban areas.

4.6 Comparison of Maternal Mortality between 2012 Census and Tanzania Demographic and Health Surveys (TDHSs)

Two sources of data were used in comparing maternal mortality ratio in Tanzania: The 2012 Population and Housing Census, from which it was computed for the first time in the history of conducting censuses in Tanzania; and Tanzania Demographic and Health Surveys (TDHSs) from 1996 to 2010.

The 1996 and 2004/05 TDHSs indicated that MMR was over 500 maternal deaths per 100,000 live births. However, the 2010 TDHS and the 2012 Census suggest that MMR has declined by roughly 100 maternal deaths per 100,000 and is now as low as 432 per 100,000 live births.

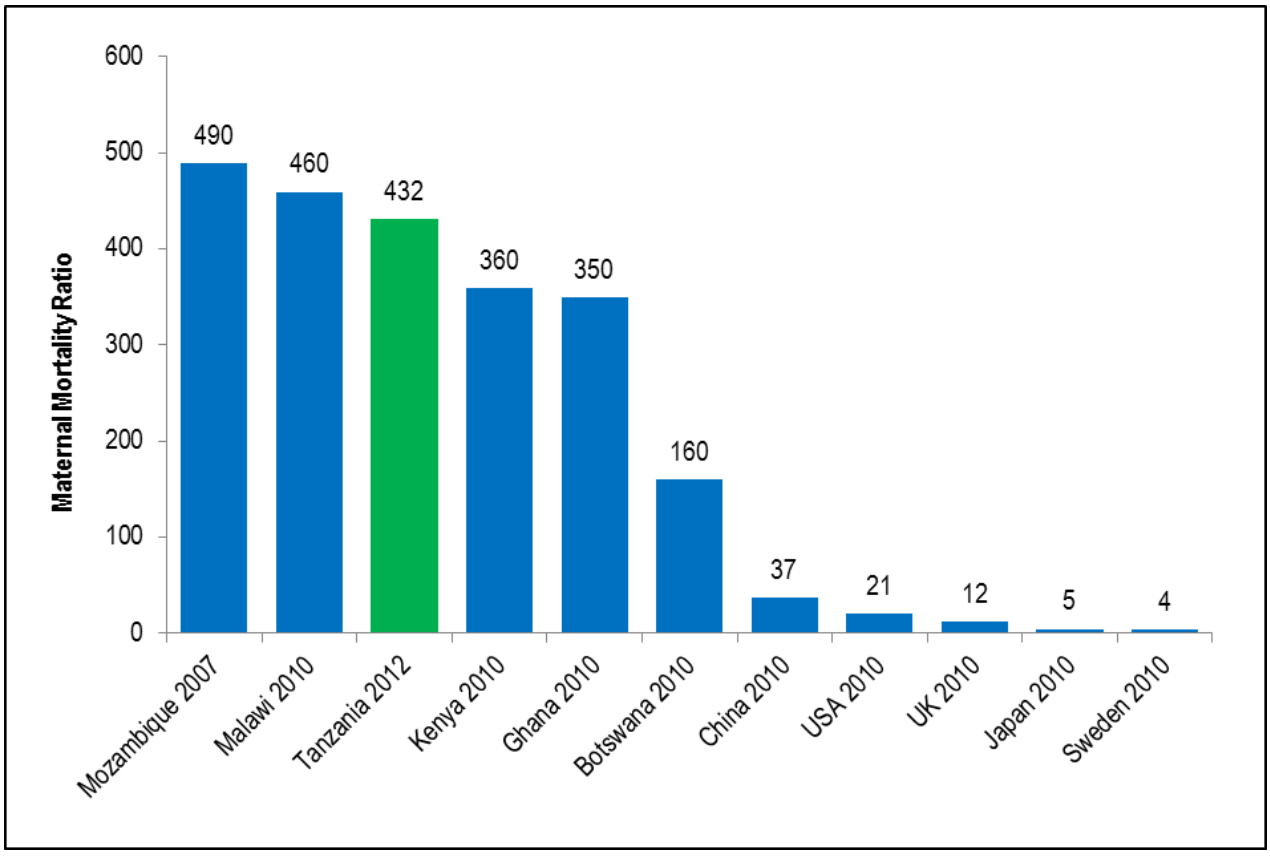
Figure 4. 6 Trends in Maternal Mortality Ratio, Tanzania, 1996 TDHS, 2004/05 TDHS, 2010 TDHS and 2012 Census



4.7 Comparison of Maternal Mortality in Tanzania with Other "Sub-Saharan" Countries

Figure 4.6 shows the maternal mortality ratio in Tanzania in 2012 also those of selected countries mainly for the year 2010. The MMR in Tanzania was 442 deaths per 100,000 live births which was higher than those of Kenya, Ghana and Botswana with 360, 350 and 160 deaths per 100,000 live births respectively. Mozambique had higher MMR (490 deaths per 100,000 live births). Maternal mortality in Sub-Saharan countries is much higher compared with China (37 deaths per 100,000 live births) and developed countries such as Sweden (4 maternal deaths per 100,000 live births).

Figure 4. 7 Maternal Mortality Ratio by Selected Country



Source: WHO, UNICEF, UNFPA and the World Bank estimates; Trends in Maternal Mortality: 1990-2010 and 2012 Population and Housing Census

Chapter Five

Conclusion, Policy Implications and Recommendations

5.0 Progress towards International Goals - MDGs

Tanzania has shown successive improvement in reducing childhood mortality to targets set in the Millennium Development Goals (International goals) as well as in MKUKUTA and MKUZA goals (National goals). Target 5 under MGD-Goal 4 is to reduce child mortality by two thirds between 1990 and 2015. That means Tanzania seeks to reduce under-five mortality from 191 deaths per 1,000 live births in 1990 to 64 deaths per 1,000 live births in 2015. For infant mortality the target is 48 deaths in 2015 a reduction from 115 deaths per 1,000 live births in 1990 (2010 Tanzania Country Report on MDGs). Cluster II of 2005 National Strategy for Growth and Poverty Reduction (NSGPR) sought to reduce infant and under-five mortality rates to 50 and 79 deaths per 1,000 live births in 2010 from 95 and 153 deaths per 1,000 live births in 2002 respectively. For maternal mortality (MDGs 5 – Improve maternal health) the target is 133 maternal deaths by 2015.

Based on the previous census (2002) and TDHS (2004/05, 2009/10), infant mortality rates for Tanzania has declined from 95 (2002 Census), 68 (TDHS 2004/05) and 51(TDHS 2009/10) to 46 deaths per 1,000 livebirths in 2012 Census. Furthermore, child and under-five mortality rates has fell to 21 and 67 from 47 in 2004/05 TDHS and 153 deaths per 1,000 live births in 2002 census, respectively. The 2012 PHC estimates show progress towards reaching the MDGs by 2015.

5.1 Progress towards National Policies - MKUKUTA and MKUZA

The Ministry of Health and Social Welfare (Mainland) through its Health Sector Strategic Plan II (HSSP II) seeks to reach 50 and 48 deaths per 1,000 live births in IMR and U5MR respectively by 2015. In line with that, Zanzibar's target in 2010 Mpango wa Kupunguza Umaskini na Kukuza Uchumi Zanzibar – (2010 MKUZA II) is to reach 48deaths per 1,000 live births for IMR and 50 deaths per 1,000 live births in U5MR by 2015. Figures 5.1 and 5.2 show that infant mortality in both Mainland and Zanzibar has surpassed the targets set on HSSP II as well as 2010 MKUZA II. Based on these targets, under-five mortality is on track. However the 2012 targets for infant mortality rate have been achieved (Figure 5.3).

Figure 5. 1: Trend in Infant Mortality Rates against 2015 MKUZA Target for Tanzania Zanzibar, 2002 to 2012 Censuses and Surveys

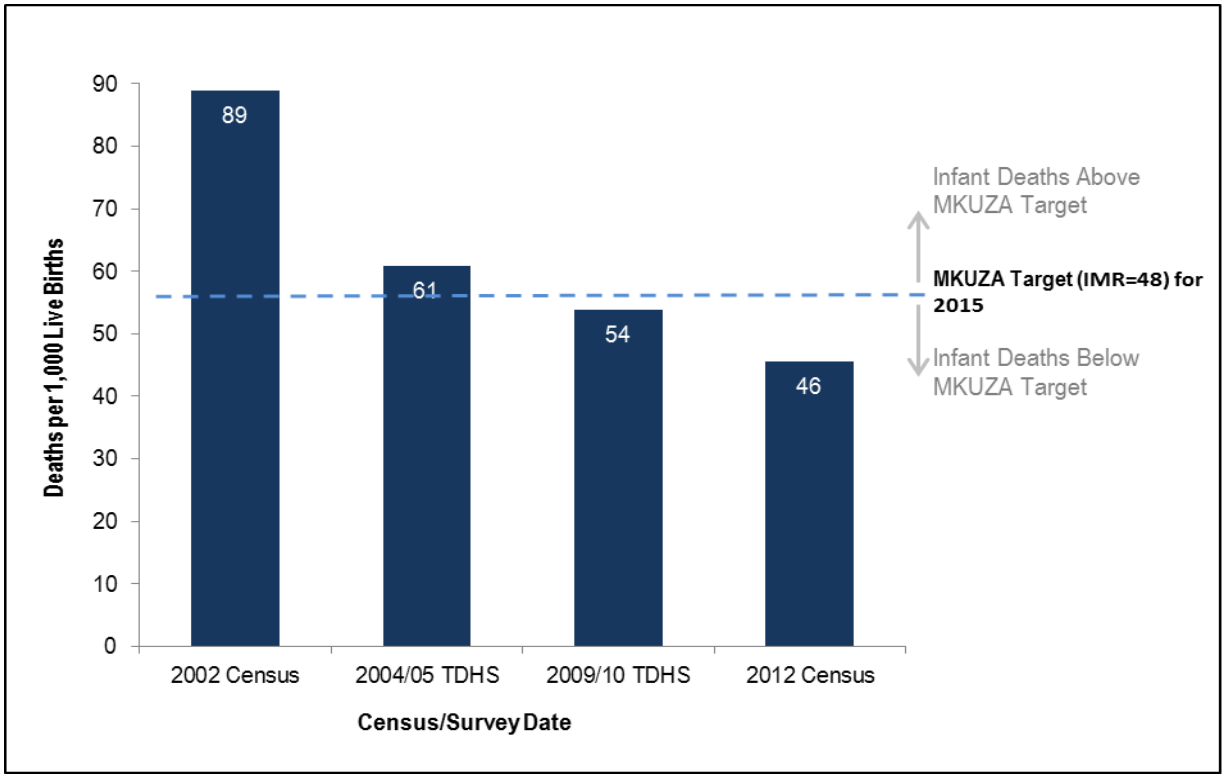


Figure 5. 2: Trends in Under-Five Mortality Rates against 2015 MKUKUTA Target for Tanzania and Tanzania Mainland, 2002 to 2012 Censuses and Surveys

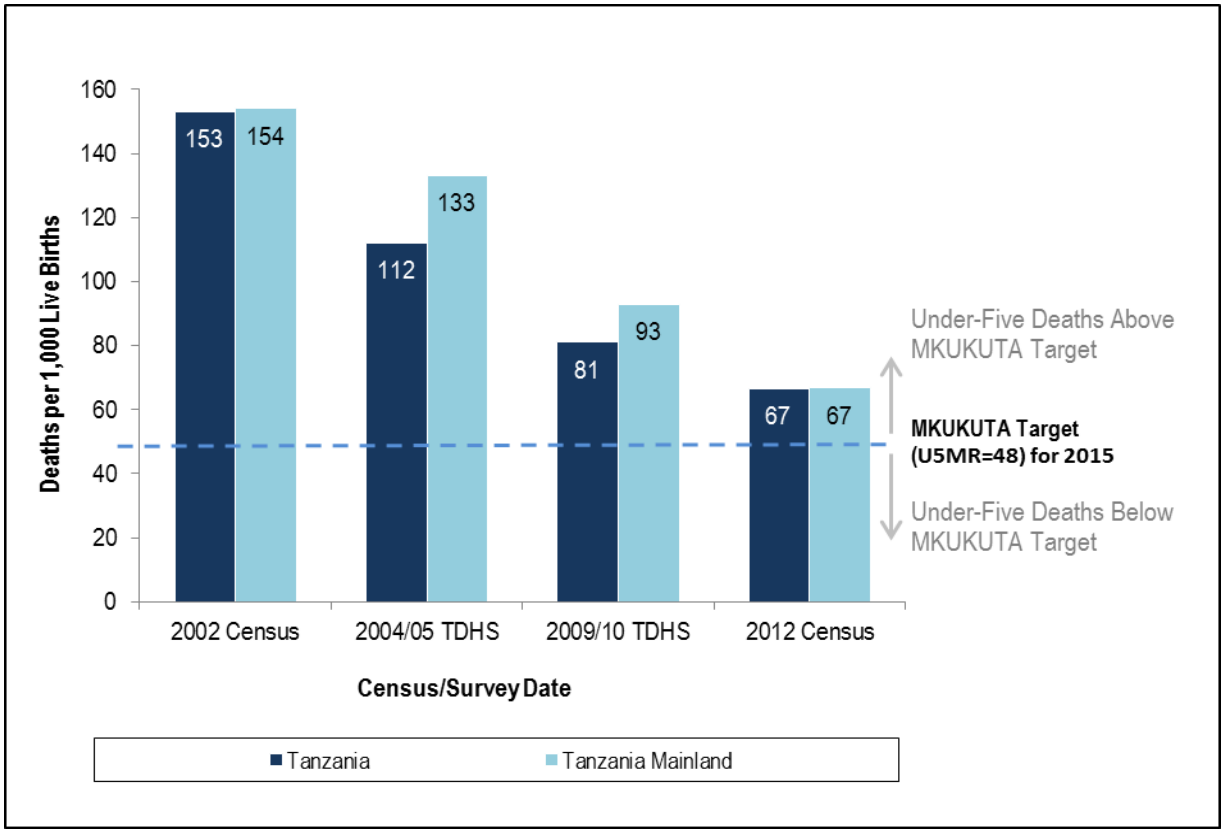
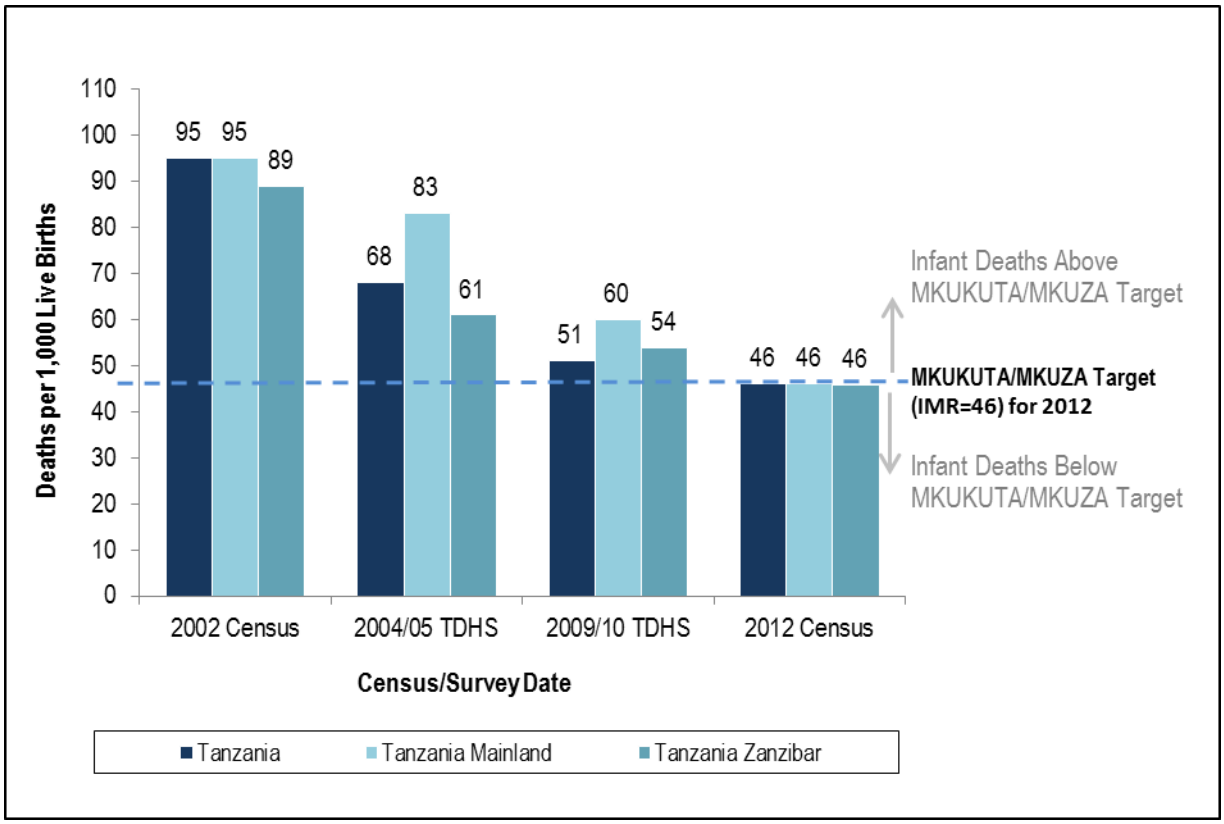


Figure 5. 3: Trends in Infant Mortality Rates against 2012 MKUKUTA/MKUZA Targets for Tanzania, Tanzania Mainland and Tanzania Zanzibar, 2002 to 2012 Censuses and Surveys



5.2 Maternal Mortality

The analysis shows that, maternal mortality in Tanzania was high (432 deaths per 100,000 live births), and it was higher in urban areas (443 deaths per 100,000 live births) than in to rural areas (336 deaths per 100,000 live births). It was also found that MMR for teenage (15-19 years) was high (341 deaths per 100,000 live births). The MDG target by 2015 is to reach 133 maternal deaths per 100,000 live births. The observed level of maternal mortality from 2012 PHC nonetheless falls short of Tanzania's national target. This fact invites additional efforts to save mother's lives during pregnancy and childbirth.

Maternal mortality is difficult to measure accurately, even in countries with complete vital registration. Those countries which lacking the complete vital registration, no approach is guaranteed to give accurate estimates, the data obtained needs careful evaluation. It is recommended that Tanzania improve its vital registration system as one part of a larger effort aimed at improving the quality of maternal care and reducing maternal mortality in the long run.

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Appendices

Appendix 1: Life Tables

${}_nM_x$ = Age-specific central death rate.

${}_na_x$ = Average person-years lived by those who die between ages x and x+n

${}_nq_x$ = Probability of dying between exact ages x and x+n (age-specific mortality rate)

l_x = Number of survivors at age x.

${}_nd_x$ = Number of deaths occurring between ages x and x+n.

${}_nL_x$ = Number of person-years lived between ages x and x+n.

${}_5P_x$ = Survival ratio for persons aged x to x+5 surviving 5 years to ages x+5 to x+10 = 5Lx+5/5Lx (first ${}_5P_x = {}_5L_0/{}_5l_0$, second ${}_5P_x = {}_5L_5/{}_5L_0$, last ${}_5P_x = T_x+5/T_x$).

T_x = Number of person-years lived after age x.

e_x = Life expectancy at age x.

Tanzania

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05306	0.189	0.05087	100,000	5,087	95,873	0.94104	5,984,297	59.84
1	4	0.00582	1.706	0.02297	94,913	2,180	374,649	0.97874	5,888,424	62.04
5	5	0.00273	2.500	0.01356	92,733	1,257	460,520	0.98740	5,513,775	59.46
10	5	0.00234	2.500	0.01163	91,475	1,064	454,716	0.98646	5,053,255	55.24
15	5	0.00312	2.500	0.01548	90,411	1,399	448,558	0.98274	4,598,539	50.86
20	5	0.00385	2.500	0.01907	89,012	1,697	440,816	0.97723	4,149,981	46.62
25	5	0.00538	2.500	0.02654	87,315	2,318	430,779	0.96875	3,709,165	42.48
30	5	0.00735	2.500	0.03609	84,997	3,067	417,317	0.95698	3,278,386	38.57
35	5	0.01030	2.500	0.05021	81,930	4,113	399,365	0.94868	2,861,069	34.92
40	5	0.01078	2.500	0.05249	77,816	4,084	378,871	0.94745	2,461,704	31.63
45	5	0.01081	2.500	0.05263	73,732	3,880	358,959	0.94544	2,082,833	28.25
50	5	0.01165	2.500	0.05660	69,852	3,954	339,374	0.93698	1,723,874	24.68
55	5	0.01447	2.500	0.06982	65,898	4,601	317,987	0.91603	1,384,500	21.01
60	5	0.02087	2.500	0.09918	61,297	6,079	291,286	0.87865	1,066,513	17.40
65	5	0.03149	2.500	0.14596	55,218	8,060	255,939	0.82021	775,227	14.04
70	5	0.04929	2.500	0.21941	47,158	10,347	209,923	0.73205	519,288	11.01
75	5	0.07908	2.500	0.33013	36,811	12,153	153,674	0.50326	309,365	8.40
80	+	0.15838	6.314	1.00000	24,658	24,658	155,692		155,692	6.31

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04277	0.174	0.04131	100,000	4,131	96,587	0.95133	6,377,916	63.78
1	4	0.00497	1.666	0.01965	95,869	1,884	379,078	0.98250	6,281,329	65.52
5	5	0.00221	2.500	0.01099	93,985	1,033	467,343	0.98938	5,902,251	62.80
10	5	0.00206	2.500	0.01025	92,952	953	462,379	0.98946	5,434,908	58.47
15	5	0.00218	2.500	0.01084	92,000	997	457,505	0.98720	4,972,529	54.05
20	5	0.00298	2.500	0.01479	91,002	1,346	451,646	0.97996	4,515,024	49.61
25	5	0.00514	2.500	0.02537	89,656	2,275	442,594	0.97113	4,063,378	45.32
30	5	0.00660	2.500	0.03246	87,381	2,837	429,815	0.96221	3,620,784	41.44
35	5	0.00885	2.500	0.04329	84,545	3,660	413,573	0.95825	3,190,968	37.74
40	5	0.00819	2.500	0.04013	80,885	3,246	396,308	0.96145	2,777,396	34.34
45	5	0.00752	2.500	0.03691	77,639	2,865	381,030	0.96128	2,381,087	30.67
50	5	0.00829	2.500	0.04061	74,773	3,036	366,276	0.95520	2,000,057	26.75
55	5	0.01008	2.500	0.04916	71,737	3,527	349,868	0.93875	1,633,781	22.77
60	5	0.01536	2.500	0.07396	68,210	5,045	328,439	0.90482	1,283,913	18.82
65	5	0.02510	2.500	0.11809	63,165	7,459	297,179	0.84854	955,474	15.13
70	5	0.04182	2.500	0.18931	55,706	10,546	252,167	0.76329	658,294	11.82
75	5	0.06926	2.500	0.29519	45,161	13,331	192,476	0.52607	406,127	8.99
80	+	0.14898	6.712	1.00000	31,830	31,830	213,651		213,651	6.71

Tanzania Urban

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05629	0.197	0.05386	100,000	5,386	95,677	0.93699	5,774,636	57.75
1	4	0.00657	1.697	0.02589	94,614	2,449	372,816	0.97604	5,678,959	60.02
5	5	0.00311	2.500	0.01543	92,165	1,422	457,269	0.98540	5,306,143	57.57
10	5	0.00277	2.500	0.01375	90,743	1,248	450,594	0.98439	4,848,874	53.44
15	5	0.00353	2.500	0.01750	89,495	1,566	443,559	0.98090	4,398,280	49.15
20	5	0.00419	2.500	0.02073	87,929	1,823	435,087	0.97425	3,954,721	44.98
25	5	0.00627	2.500	0.03087	86,106	2,658	423,885	0.96297	3,519,634	40.88
30	5	0.00887	2.500	0.04339	83,448	3,621	408,189	0.94755	3,095,749	37.10
35	5	0.01278	2.500	0.06192	79,828	4,943	386,780	0.93731	2,687,560	33.67
40	5	0.01312	2.500	0.06352	74,884	4,756	362,531	0.93748	2,300,780	30.72
45	5	0.01268	2.500	0.06145	70,128	4,310	339,866	0.93841	1,938,249	27.64
50	5	0.01274	2.500	0.06173	65,819	4,063	318,935	0.93206	1,598,382	24.28
55	5	0.01549	2.500	0.07456	61,755	4,605	297,265	0.91166	1,279,448	20.72
60	5	0.02177	2.500	0.10323	57,151	5,900	271,004	0.87474	982,183	17.19
65	5	0.03239	2.500	0.14982	51,251	7,678	237,059	0.81613	711,179	13.88
70	5	0.05043	2.500	0.22392	43,573	9,757	193,471	0.72753	474,120	10.88
75	5	0.08049	2.500	0.33503	33,816	11,329	140,756	0.49846	280,649	8.30
80	+	0.16074	6.221	1.00000	22,486	22,486	139,893		139,893	6.22

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04449	0.179	0.04292	100,000	4,292	96,475	0.94886	6,168,198	61.68
1	4	0.00552	1.663	0.02180	95,708	2,086	377,956	0.98045	6,071,723	63.44
5	5	0.00254	2.500	0.01262	93,622	1,181	465,154	0.98743	5,693,767	60.82
10	5	0.00252	2.500	0.01252	92,440	1,157	459,306	0.98750	5,228,613	56.56
15	5	0.00251	2.500	0.01247	91,283	1,138	453,567	0.98520	4,769,307	52.25
20	5	0.00346	2.500	0.01715	90,144	1,546	446,855	0.97562	4,315,740	47.88
25	5	0.00645	2.500	0.03174	88,598	2,812	435,960	0.96359	3,868,885	43.67
30	5	0.00842	2.500	0.04123	85,786	3,537	420,087	0.95161	3,432,925	40.02
35	5	0.01149	2.500	0.05585	82,249	4,593	399,761	0.94731	3,012,837	36.63
40	5	0.01012	2.500	0.04935	77,656	3,832	378,697	0.95376	2,613,076	33.65
45	5	0.00878	2.500	0.04296	73,823	3,171	361,188	0.95662	2,234,379	30.27
50	5	0.00896	2.500	0.04382	70,652	3,096	345,520	0.95257	1,873,191	26.51
55	5	0.01051	2.500	0.05120	67,556	3,459	329,133	0.93686	1,527,670	22.61
60	5	0.01574	2.500	0.07572	64,097	4,853	308,351	0.90299	1,198,538	18.70
65	5	0.02554	2.500	0.12004	59,244	7,111	278,439	0.84639	890,186	15.03
70	5	0.04242	2.500	0.19176	52,132	9,997	235,668	0.76078	611,747	11.73
75	5	0.07002	2.500	0.29794	42,135	12,554	179,291	0.52326	376,079	8.93
80	+	0.15032	6.652	1.00000	29,581	29,581	196,788		196,788	6.65

Tanzania Rural

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05271	0.188	0.05055	100,000	5,055	95,895	0.94159	6,032,518	60.33
1	4	0.00568	1.707	0.02243	94,945	2,129	374,898	0.97923	5,936,623	62.53
5	5	0.00266	2.500	0.01321	92,816	1,226	461,014	0.98787	5,561,725	59.92
10	5	0.00222	2.500	0.01104	91,590	1,011	455,421	0.98702	5,100,711	55.69
15	5	0.00301	2.500	0.01494	90,579	1,353	449,511	0.98321	4,645,290	51.28
20	5	0.00377	2.500	0.01867	89,226	1,666	441,963	0.97798	4,195,779	47.02
25	5	0.00515	2.500	0.02542	87,559	2,226	432,232	0.97029	3,753,817	42.87
30	5	0.00694	2.500	0.03411	85,333	2,911	419,391	0.95955	3,321,585	38.92
35	5	0.00963	2.500	0.04702	82,423	3,875	402,426	0.95177	2,902,194	35.21
40	5	0.01015	2.500	0.04949	78,547	3,888	383,018	0.95011	2,499,768	31.82
45	5	0.01032	2.500	0.05030	74,660	3,756	363,910	0.94723	2,116,750	28.35
50	5	0.01139	2.500	0.05537	70,904	3,926	344,706	0.93813	1,752,840	24.72
55	5	0.01424	2.500	0.06875	66,978	4,605	323,378	0.91697	1,408,134	21.02
60	5	0.02069	2.500	0.09836	62,373	6,135	296,528	0.87936	1,084,755	17.39
65	5	0.03135	2.500	0.14536	56,238	8,175	260,754	0.82079	788,227	14.02
70	5	0.04914	2.500	0.21882	48,063	10,517	214,024	0.73265	527,474	10.97
75	5	0.07889	2.500	0.32947	37,546	12,370	156,805	0.49974	313,450	8.35
80	+	0.16072	6.222	1.00000	25,176	25,176	156,644		156,644	6.22

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04278	0.174	0.04132	100,000	4,132	96,587	0.95146	6,444,363	64.44
1	4	0.00489	1.666	0.01934	95,868	1,854	379,144	0.98287	6,347,776	66.21
5	5	0.00213	2.500	0.01059	94,014	996	467,580	0.98995	5,968,632	63.49
10	5	0.00191	2.500	0.00950	93,018	884	462,880	0.99013	5,501,052	59.14
15	5	0.00206	2.500	0.01025	92,134	944	458,309	0.98789	5,038,172	54.68
20	5	0.00282	2.500	0.01400	91,190	1,277	452,757	0.98152	4,579,862	50.22
25	5	0.00466	2.500	0.02303	89,913	2,071	444,388	0.97398	4,127,105	45.90
30	5	0.00590	2.500	0.02907	87,842	2,554	432,827	0.96633	3,682,717	41.92
35	5	0.00783	2.500	0.03840	85,289	3,275	418,255	0.96250	3,249,890	38.10
40	5	0.00745	2.500	0.03657	82,014	2,999	402,570	0.96438	2,831,634	34.53
45	5	0.00705	2.500	0.03464	79,014	2,737	388,230	0.96292	2,429,064	30.74
50	5	0.00808	2.500	0.03960	76,277	3,021	373,836	0.95588	2,040,835	26.76
55	5	0.01001	2.500	0.04883	73,257	3,577	357,342	0.93897	1,666,999	22.76
60	5	0.01534	2.500	0.07387	69,680	5,147	335,532	0.90487	1,309,657	18.80
65	5	0.02510	2.500	0.11809	64,533	7,621	303,612	0.84850	974,126	15.10
70	5	0.04184	2.500	0.18939	56,912	10,779	257,614	0.76320	670,513	11.78
75	5	0.06929	2.500	0.29530	46,134	13,623	196,610	0.52383	412,899	8.95
80	+	0.15031	6.653	1.00000	32,510	32,510	216,289		216,289	6.65

Tanzania Mainland

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05306	0.189	0.05087	100,000	5,087	95,873	0.94105	5,974,205	59.74
1	4	0.00582	1.706	0.02296	94,913	2,179	374,654	0.97873	5,878,331	61.93
5	5	0.00274	2.500	0.01361	92,734	1,262	460,517	0.98731	5,503,677	59.35
10	5	0.00237	2.500	0.01176	91,472	1,075	454,673	0.98634	5,043,161	55.13
15	5	0.00314	2.500	0.01559	90,397	1,410	448,461	0.98265	4,588,487	50.76
20	5	0.00386	2.500	0.01913	88,987	1,702	440,681	0.97707	4,140,026	46.52
25	5	0.00543	2.500	0.02680	87,285	2,339	430,578	0.96839	3,699,345	42.38
30	5	0.00745	2.500	0.03655	84,946	3,105	416,969	0.95636	3,268,767	38.48
35	5	0.01047	2.500	0.05101	81,841	4,175	398,770	0.94789	2,851,798	34.85
40	5	0.01094	2.500	0.05326	77,667	4,137	377,991	0.94673	2,453,028	31.58
45	5	0.01095	2.500	0.05327	73,530	3,917	357,857	0.94497	2,075,036	28.22
50	5	0.01171	2.500	0.05689	69,613	3,960	338,164	0.93674	1,717,179	24.67
55	5	0.01451	2.500	0.07001	65,653	4,596	316,772	0.91589	1,379,016	21.00
60	5	0.02089	2.500	0.09928	61,056	6,062	290,128	0.87859	1,062,243	17.40
65	5	0.03149	2.500	0.14597	54,995	8,028	254,905	0.82020	772,116	14.04
70	5	0.04929	2.500	0.21940	46,967	10,305	209,074	0.73205	517,211	11.01
75	5	0.07908	2.500	0.33014	36,662	12,104	153,052	0.50330	308,137	8.40
80	+	0.15836	6.315	1.00000	24,559	24,559	155,085		155,085	6.31

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04276	0.174	0.04130	100,000	4,130	96,588	0.95135	6,367,606	63.68
1	4	0.00496	1.666	0.01963	95,870	1,882	379,088	0.98249	6,271,018	65.41
5	5	0.00222	2.500	0.01103	93,988	1,037	467,349	0.98930	5,891,930	62.69
10	5	0.00208	2.500	0.01036	92,951	963	462,350	0.98936	5,424,581	58.36
15	5	0.00220	2.500	0.01093	91,988	1,005	457,429	0.98708	4,962,232	53.94
20	5	0.00301	2.500	0.01493	90,983	1,358	451,520	0.97970	4,504,803	49.51
25	5	0.00522	2.500	0.02576	89,625	2,308	442,353	0.97067	4,053,283	45.22
30	5	0.00671	2.500	0.03300	87,316	2,881	429,379	0.96153	3,610,929	41.35
35	5	0.00902	2.500	0.04413	84,435	3,726	412,860	0.95753	3,181,551	37.68
40	5	0.00832	2.500	0.04073	80,709	3,287	395,327	0.96094	2,768,690	34.30
45	5	0.00760	2.500	0.03731	77,422	2,889	379,886	0.96100	2,373,363	30.66
50	5	0.00832	2.500	0.04076	74,533	3,038	365,069	0.95511	1,993,477	26.75
55	5	0.01009	2.500	0.04920	71,495	3,517	348,680	0.93877	1,628,409	22.78
60	5	0.01534	2.500	0.07389	67,977	5,023	327,331	0.90487	1,279,728	18.83
65	5	0.02509	2.500	0.11806	62,955	7,433	296,193	0.84858	952,398	15.13
70	5	0.04180	2.500	0.18923	55,522	10,507	251,345	0.76333	656,205	11.82
75	5	0.06926	2.500	0.29518	45,016	13,288	191,858	0.52611	404,860	8.99
80	+	0.14895	6.713	1.00000	31,728	31,728	213,002		213,002	6.71

Tanzania Mainland Urban

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05542	0.195	0.05305	100,000	5,305	95,730	0.93785	5,802,417	58.02
1	4	0.00650	1.699	0.02563	94,695	2,427	373,195	0.97630	5,706,687	60.26
5	5	0.00308	2.500	0.01529	92,268	1,411	457,810	0.98543	5,333,493	57.80
10	5	0.00279	2.500	0.01383	90,857	1,257	451,141	0.98443	4,875,682	53.66
15	5	0.00350	2.500	0.01733	89,600	1,553	444,116	0.98113	4,424,541	49.38
20	5	0.00413	2.500	0.02044	88,047	1,800	435,734	0.97481	3,980,425	45.21
25	5	0.00610	2.500	0.03003	86,247	2,590	424,759	0.96399	3,544,691	41.10
30	5	0.00862	2.500	0.04218	83,657	3,528	409,463	0.94891	3,119,932	37.29
35	5	0.01245	2.500	0.06039	80,129	4,839	388,545	0.93862	2,710,469	33.83
40	5	0.01289	2.500	0.06243	75,290	4,700	364,698	0.93833	2,321,924	30.84
45	5	0.01255	2.500	0.06085	70,589	4,296	342,208	0.93894	1,957,226	27.73
50	5	0.01264	2.500	0.06127	66,294	4,062	321,314	0.93260	1,615,018	24.36
55	5	0.01535	2.500	0.07392	62,232	4,600	299,658	0.91224	1,293,704	20.79
60	5	0.02165	2.500	0.10270	57,632	5,919	273,361	0.87529	994,046	17.25
65	5	0.03226	2.500	0.14925	51,713	7,718	239,270	0.81675	720,684	13.94
70	5	0.05025	2.500	0.22322	43,995	9,820	195,423	0.72814	481,414	10.94
75	5	0.08033	2.500	0.33449	34,174	11,431	142,295	0.50245	285,991	8.37
80	+	0.15828	6.318	1.00000	22,743	22,743	143,696		143,696	6.32

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04382	0.177	0.04230	100,000	4,230	96,519	0.94959	6,184,360	61.84
1	4	0.00544	1.664	0.02147	95,770	2,056	378,279	0.98068	6,087,841	63.57
5	5	0.00253	2.500	0.01258	93,714	1,179	465,624	0.98740	5,709,562	60.93
10	5	0.00254	2.500	0.01261	92,535	1,167	459,759	0.98753	5,243,938	56.67
15	5	0.00248	2.500	0.01232	91,368	1,126	454,027	0.98543	4,784,179	52.36
20	5	0.00340	2.500	0.01685	90,243	1,520	447,412	0.97610	4,330,151	47.98
25	5	0.00631	2.500	0.03107	88,722	2,756	436,720	0.96423	3,882,739	43.76
30	5	0.00829	2.500	0.04062	85,966	3,492	421,100	0.95199	3,446,019	40.09
35	5	0.01146	2.500	0.05571	82,474	4,594	400,884	0.94725	3,024,920	36.68
40	5	0.01017	2.500	0.04961	77,880	3,864	379,739	0.95357	2,624,036	33.69
45	5	0.00881	2.500	0.04308	74,016	3,189	362,108	0.95658	2,244,297	30.32
50	5	0.00895	2.500	0.04379	70,827	3,101	346,384	0.95277	1,882,189	26.57
55	5	0.01043	2.500	0.05084	67,726	3,443	330,023	0.93728	1,535,805	22.68
60	5	0.01563	2.500	0.07523	64,283	4,836	309,326	0.90351	1,205,782	18.76
65	5	0.02541	2.500	0.11947	59,447	7,102	279,479	0.84712	896,456	15.08
70	5	0.04219	2.500	0.19083	52,345	9,989	236,751	0.76160	616,977	11.79
75	5	0.06981	2.500	0.29718	42,356	12,587	180,310	0.52578	380,226	8.98
80	+	0.14890	6.716	1.00000	29,768	29,768	199,915		199,915	6.72

Tanzania Mainland Rural

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05178	0.185	0.04968	100,000	4,968	95,953	0.94256	6,061,722	60.62
1	4	0.00559	1.709	0.02206	95,032	2,096	375,326	0.97956	5,965,769	62.78
5	5	0.00263	2.500	0.01304	92,936	1,212	461,648	0.98794	5,590,443	60.15
10	5	0.00222	2.500	0.01106	91,723	1,015	456,080	0.98708	5,128,795	55.92
15	5	0.00298	2.500	0.01480	90,709	1,342	450,188	0.98345	4,672,715	51.51
20	5	0.00370	2.500	0.01832	89,366	1,637	442,739	0.97850	4,222,527	47.25
25	5	0.00501	2.500	0.02473	87,729	2,170	433,221	0.97113	3,779,789	43.08
30	5	0.00673	2.500	0.03310	85,559	2,832	420,716	0.96067	3,346,568	39.11
35	5	0.00937	2.500	0.04576	82,727	3,786	404,170	0.95285	2,925,852	35.37
40	5	0.00996	2.500	0.04859	78,941	3,836	385,115	0.95086	2,521,682	31.94
45	5	0.01020	2.500	0.04972	75,105	3,734	366,189	0.94775	2,136,567	28.45
50	5	0.01129	2.500	0.05491	71,371	3,919	347,055	0.93869	1,770,378	24.81
55	5	0.01409	2.500	0.06807	67,451	4,591	325,779	0.91761	1,423,323	21.10
60	5	0.02056	2.500	0.09776	62,860	6,145	298,936	0.88001	1,097,544	17.46
65	5	0.03118	2.500	0.14463	56,715	8,203	263,066	0.82156	798,608	14.08
70	5	0.04893	2.500	0.21797	48,512	10,574	216,123	0.73341	535,542	11.04
75	5	0.07869	2.500	0.32876	37,938	12,472	158,507	0.50376	319,419	8.42
80	+	0.15826	6.319	1.00000	25,465	25,465	160,912		160,912	6.32

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04213	0.172	0.04071	100,000	4,071	96,630	0.95216	6,460,100	64.60
1	4	0.00482	1.667	0.01906	95,929	1,828	379,451	0.98309	6,363,470	66.34
5	5	0.00211	2.500	0.01052	94,101	990	468,030	0.98997	5,984,020	63.59
10	5	0.00192	2.500	0.00954	93,111	888	463,336	0.99017	5,515,989	59.24
15	5	0.00203	2.500	0.01012	92,223	933	458,782	0.98809	5,052,653	54.79
20	5	0.00276	2.500	0.01371	91,290	1,252	453,319	0.98192	4,593,871	50.32
25	5	0.00455	2.500	0.02251	90,038	2,027	445,122	0.97444	4,140,553	45.99
30	5	0.00582	2.500	0.02868	88,011	2,524	433,744	0.96657	3,695,430	41.99
35	5	0.00781	2.500	0.03832	85,487	3,276	419,244	0.96244	3,261,686	38.15
40	5	0.00749	2.500	0.03677	82,211	3,023	403,497	0.96422	2,842,442	34.57
45	5	0.00707	2.500	0.03475	79,188	2,752	389,059	0.96288	2,438,945	30.80
50	5	0.00807	2.500	0.03958	76,436	3,025	374,618	0.95606	2,049,886	26.82
55	5	0.00994	2.500	0.04848	73,411	3,559	358,159	0.93940	1,675,268	22.82
60	5	0.01523	2.500	0.07335	69,852	5,124	336,453	0.90542	1,317,109	18.86
65	5	0.02497	2.500	0.11750	64,729	7,605	304,631	0.84923	980,657	15.15
70	5	0.04161	2.500	0.18847	57,123	10,766	258,703	0.76405	676,026	11.83
75	5	0.06906	2.500	0.29447	46,358	13,651	197,661	0.52636	417,323	9.00
80	+	0.14889	6.716	1.00000	32,707	32,707	219,663		219,663	6.72

Tanzania Zanzibar

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05317	0.189	0.05097	100,000	5,097	95,866	0.94069	6,333,725	63.34
1	4	0.00597	1.705	0.02356	94,903	2,236	374,481	0.97928	6,237,858	65.73
5	5	0.00237	2.500	0.01179	92,667	1,092	460,604	0.99033	5,863,378	63.27
10	5	0.00151	2.500	0.00753	91,575	689	456,150	0.99033	5,402,774	59.00
15	5	0.00238	2.500	0.01184	90,885	1,076	451,737	0.98555	4,946,624	54.43
20	5	0.00345	2.500	0.01710	89,810	1,536	445,209	0.98262	4,494,887	50.05
25	5	0.00356	2.500	0.01766	88,274	1,559	437,473	0.98151	4,049,678	45.88
30	5	0.00390	2.500	0.01933	86,715	1,676	429,385	0.97939	3,612,205	41.66
35	5	0.00443	2.500	0.02190	85,039	1,863	420,537	0.97552	3,182,820	37.43
40	5	0.00550	2.500	0.02712	83,176	2,255	410,242	0.96947	2,762,282	33.21
45	5	0.00692	2.500	0.03403	80,921	2,754	397,718	0.95884	2,352,041	29.07
50	5	0.00995	2.500	0.04853	78,167	3,794	381,349	0.94400	1,954,322	25.00
55	5	0.01319	2.500	0.06385	74,373	4,749	359,994	0.92056	1,572,973	21.15
60	5	0.02019	2.500	0.09610	69,624	6,691	331,395	0.88050	1,212,979	17.42
65	5	0.03136	2.500	0.14539	62,934	9,150	291,794	0.82019	881,584	14.01
70	5	0.04946	2.500	0.22009	53,784	11,837	239,327	0.73060	589,790	10.97
75	5	0.07980	2.500	0.33263	41,947	13,953	174,851	0.50108	350,463	8.35
80	+	0.15941	6.273	1.00000	27,994	27,994	175,611		175,611	6.27

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04310	0.175	0.04162	100,000	4,162	96,566	0.95069	6,714,408	67.14
1	4	0.00517	1.665	0.02045	95,838	1,960	378,778	0.98283	6,617,842	69.05
5	5	0.00189	2.500	0.00941	93,879	884	467,183	0.99210	6,239,064	66.46
10	5	0.00128	2.500	0.00638	92,995	593	463,491	0.99269	5,771,881	62.07
15	5	0.00166	2.500	0.00825	92,402	762	460,103	0.99051	5,308,390	57.45
20	5	0.00216	2.500	0.01073	91,640	984	455,739	0.98836	4,848,286	52.91
25	5	0.00253	2.500	0.01255	90,656	1,138	450,436	0.98662	4,392,547	48.45
30	5	0.00286	2.500	0.01422	89,518	1,273	444,409	0.98458	3,942,112	44.04
35	5	0.00335	2.500	0.01663	88,245	1,467	437,558	0.98092	3,497,703	39.64
40	5	0.00436	2.500	0.02158	86,778	1,873	429,208	0.97639	3,060,145	35.26
45	5	0.00521	2.500	0.02570	84,905	2,182	419,072	0.96903	2,630,937	30.99
50	5	0.00741	2.500	0.03638	82,724	3,010	406,094	0.95769	2,211,865	26.74
55	5	0.00993	2.500	0.04846	79,714	3,863	388,911	0.93854	1,805,771	22.65
60	5	0.01561	2.500	0.07511	75,851	5,697	365,009	0.90300	1,416,860	18.68
65	5	0.02568	2.500	0.12066	70,153	8,464	329,604	0.84558	1,051,851	14.99
70	5	0.04268	2.500	0.19281	61,689	11,894	278,708	0.75953	722,247	11.71
75	5	0.07046	2.500	0.29952	49,795	14,915	211,687	0.52273	443,538	8.91
80	+	0.15044	6.647	1.00000	34,880	34,880	231,852		231,852	6.65

Tanzania Zanzibar Urban

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05807	0.202	0.05550	100,000	5,550	95,572	0.93484	6,232,424	62.32
1	4	0.00694	1.692	0.02731	94,450	2,579	371,847	0.97625	6,136,852	64.97
5	5	0.00266	2.500	0.01323	91,871	1,215	456,317	0.98937	5,765,005	62.75
10	5	0.00160	2.500	0.00799	90,656	725	451,468	0.98978	5,308,689	58.56
15	5	0.00251	2.500	0.01247	89,931	1,121	446,854	0.98484	4,857,221	54.01
20	5	0.00361	2.500	0.01790	88,810	1,589	440,078	0.98175	4,410,367	49.66
25	5	0.00376	2.500	0.01862	87,221	1,624	432,044	0.98075	3,970,290	45.52
30	5	0.00402	2.500	0.01990	85,597	1,703	423,726	0.97885	3,538,246	41.34
35	5	0.00453	2.500	0.02242	83,893	1,881	414,765	0.97518	3,114,520	37.12
40	5	0.00553	2.500	0.02728	82,013	2,237	404,470	0.96919	2,699,755	32.92
45	5	0.00701	2.500	0.03443	79,775	2,747	392,009	0.95804	2,295,285	28.77
50	5	0.01020	2.500	0.04975	77,028	3,832	375,562	0.94230	1,903,276	24.71
55	5	0.01366	2.500	0.06606	73,196	4,836	353,893	0.91794	1,527,714	20.87
60	5	0.02087	2.500	0.09919	68,361	6,780	324,853	0.87668	1,173,821	17.17
65	5	0.03246	2.500	0.15010	61,580	9,243	284,793	0.81461	848,968	13.79
70	5	0.05119	2.500	0.22692	52,337	11,876	231,994	0.72312	564,175	10.78
75	5	0.08237	2.500	0.34151	40,461	13,818	167,760	0.49498	332,181	8.21
80	+	0.16204	6.171	1.00000	26,643	26,643	164,421		164,421	6.17

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04177	0.171	0.04037	100,000	4,037	96,654	0.95228	6,774,871	67.75
1	4	0.00493	1.667	0.01949	95,963	1,870	379,488	0.98375	6,678,217	69.59
5	5	0.00176	2.500	0.00875	94,093	823	468,404	0.99269	6,298,729	66.94
10	5	0.00117	2.500	0.00585	93,269	545	464,982	0.99322	5,830,325	62.51
15	5	0.00155	2.500	0.00773	92,724	716	461,827	0.99098	5,365,343	57.86
20	5	0.00208	2.500	0.01033	92,007	951	457,660	0.98888	4,903,516	53.29
25	5	0.00240	2.500	0.01192	91,057	1,085	452,570	0.98735	4,445,856	48.83
30	5	0.00269	2.500	0.01338	89,971	1,204	446,846	0.98557	3,993,286	44.38
35	5	0.00312	2.500	0.01549	88,767	1,375	440,398	0.98209	3,546,440	39.95
40	5	0.00411	2.500	0.02036	87,392	1,779	432,511	0.97762	3,106,042	35.54
45	5	0.00495	2.500	0.02445	85,612	2,093	422,830	0.97017	2,673,531	31.23
50	5	0.00720	2.500	0.03535	83,519	2,952	410,216	0.95902	2,250,702	26.95
55	5	0.00959	2.500	0.04682	80,567	3,772	393,406	0.94021	1,840,485	22.84
60	5	0.01524	2.500	0.07339	76,795	5,636	369,886	0.90530	1,447,079	18.84
65	5	0.02501	2.500	0.11770	71,159	8,375	334,857	0.84896	1,077,194	15.14
70	5	0.04170	2.500	0.18883	62,784	11,855	284,280	0.76402	742,337	11.82
75	5	0.06897	2.500	0.29412	50,928	14,979	217,195	0.52583	458,056	8.99
80	+	0.14925	6.700	1.00000	35,949	35,949	240,862		240,862	6.70

Tanzania Zanzibar Rural

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05156	0.185	0.04948	100,000	4,948	95,966	0.94278	6,404,269	64.04
1	4	0.00557	1.710	0.02198	95,052	2,090	375,422	0.98058	6,308,303	66.37
5	5	0.00223	2.500	0.01108	92,962	1,030	462,236	0.99099	5,932,880	63.82
10	5	0.00139	2.500	0.00692	91,932	636	458,071	0.99090	5,470,644	59.51
15	5	0.00227	2.500	0.01129	91,296	1,031	453,905	0.98622	5,012,573	54.90
20	5	0.00329	2.500	0.01629	90,266	1,471	447,652	0.98346	4,558,669	50.50
25	5	0.00339	2.500	0.01679	88,795	1,491	440,247	0.98249	4,111,017	46.30
30	5	0.00368	2.500	0.01823	87,304	1,592	432,539	0.98073	3,670,770	42.05
35	5	0.00411	2.500	0.02032	85,712	1,742	424,205	0.97741	3,238,231	37.78
40	5	0.00504	2.500	0.02491	83,970	2,091	414,621	0.97164	2,814,026	33.51
45	5	0.00648	2.500	0.03190	81,879	2,612	402,863	0.96083	2,399,404	29.30
50	5	0.00956	2.500	0.04669	79,267	3,701	387,082	0.94578	1,996,541	25.19
55	5	0.01282	2.500	0.06211	75,566	4,694	366,095	0.92239	1,609,460	21.30
60	5	0.01976	2.500	0.09414	70,872	6,672	337,682	0.88251	1,243,364	17.54
65	5	0.03087	2.500	0.14327	64,201	9,198	298,007	0.82273	905,682	14.11
70	5	0.04867	2.500	0.21696	55,002	11,933	245,179	0.73413	607,674	11.05
75	5	0.07856	2.500	0.32833	43,069	14,141	179,994	0.50346	362,496	8.42
80	+	0.15851	6.309	1.00000	28,928	28,928	182,502		182,502	6.31

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04148	0.170	0.04010	100,000	4,010	96,673	0.95290	6,792,989	67.93
1	4	0.00472	1.668	0.01868	95,990	1,793	379,777	0.98429	6,696,316	69.76
5	5	0.00172	2.500	0.00858	94,197	808	468,963	0.99284	6,316,539	67.06
10	5	0.00115	2.500	0.00573	93,389	535	465,606	0.99332	5,847,576	62.62
15	5	0.00153	2.500	0.00763	92,854	709	462,497	0.99113	5,381,970	57.96
20	5	0.00203	2.500	0.01011	92,145	931	458,396	0.98907	4,919,473	53.39
25	5	0.00237	2.500	0.01176	91,213	1,073	453,385	0.98755	4,461,077	48.91
30	5	0.00265	2.500	0.01314	90,141	1,185	447,742	0.98580	4,007,692	44.46
35	5	0.00308	2.500	0.01526	88,956	1,358	441,386	0.98246	3,559,950	40.02
40	5	0.00401	2.500	0.01985	87,598	1,739	433,644	0.97804	3,118,565	35.60
45	5	0.00488	2.500	0.02412	85,859	2,071	424,120	0.97065	2,684,920	31.27
50	5	0.00707	2.500	0.03472	83,789	2,909	411,671	0.95930	2,260,800	26.98
55	5	0.00961	2.500	0.04691	80,880	3,794	394,915	0.94038	1,849,130	22.86
60	5	0.01515	2.500	0.07297	77,086	5,625	371,368	0.90542	1,454,215	18.86
65	5	0.02506	2.500	0.11789	71,461	8,425	336,244	0.84895	1,082,847	15.15
70	5	0.04166	2.500	0.18863	63,036	11,891	285,456	0.76460	746,603	11.84
75	5	0.06867	2.500	0.29304	51,146	14,988	218,259	0.52670	461,147	9.02
80	+	0.14887	6.717	1.00000	36,158	36,158	242,888		242,888	6.72

Dodoma

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04945	0.179	0.04752	100,000	4,752	96,099	0.94599	6,077,052	60.77
1	4	0.00476	1.716	0.01882	95,248	1,793	376,895	0.98182	5,980,953	62.79
5	5	0.00248	2.500	0.01232	93,455	1,151	464,395	0.98829	5,604,058	59.97
10	5	0.00223	2.500	0.01109	92,303	1,023	458,958	0.98703	5,139,663	55.68
15	5	0.00300	2.500	0.01487	91,280	1,358	453,005	0.98359	4,680,705	51.28
20	5	0.00363	2.500	0.01796	89,922	1,615	445,573	0.97843	4,227,700	47.02
25	5	0.00511	2.500	0.02524	88,307	2,229	435,963	0.96999	3,782,127	42.83
30	5	0.00711	2.500	0.03492	86,078	3,006	422,877	0.95800	3,346,164	38.87
35	5	0.01012	2.500	0.04934	83,073	4,099	405,116	0.94932	2,923,287	35.19
40	5	0.01069	2.500	0.05208	78,974	4,113	384,586	0.94794	2,518,171	31.89
45	5	0.01068	2.500	0.05203	74,861	3,895	364,566	0.94645	2,133,585	28.50
50	5	0.01134	2.500	0.05516	70,966	3,914	345,042	0.93877	1,769,019	24.93
55	5	0.01401	2.500	0.06766	67,051	4,537	323,915	0.91850	1,423,977	21.24
60	5	0.02024	2.500	0.09634	62,515	6,023	297,516	0.88189	1,100,062	17.60
65	5	0.03062	2.500	0.14220	56,492	8,033	262,376	0.82447	802,547	14.21
70	5	0.04803	2.500	0.21439	48,459	10,389	216,322	0.73727	540,170	11.15
75	5	0.07740	2.500	0.32426	38,070	12,344	159,488	0.50752	323,849	8.51
80	+	0.15652	6.389	1.00000	25,725	25,725	164,361		164,361	6.39

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03761	0.159	0.03645	100,000	3,645	96,936	0.95871	6,786,573	67.87
1	4	0.00337	1.674	0.01339	96,355	1,290	382,417	0.98781	6,689,637	69.43
5	5	0.00153	2.500	0.00762	95,064	724	473,511	0.99295	6,307,220	66.35
10	5	0.00130	2.500	0.00649	94,340	612	470,171	0.99284	5,833,709	61.84
15	5	0.00157	2.500	0.00783	93,728	734	466,806	0.99077	5,363,538	57.22
20	5	0.00214	2.500	0.01063	92,994	989	462,499	0.98705	4,896,733	52.66
25	5	0.00308	2.500	0.01529	92,005	1,407	456,510	0.98305	4,434,234	48.20
30	5	0.00376	2.500	0.01862	90,598	1,687	448,774	0.97878	3,977,724	43.91
35	5	0.00483	2.500	0.02386	88,911	2,121	439,251	0.97520	3,528,951	39.69
40	5	0.00522	2.500	0.02576	86,790	2,235	428,359	0.97353	3,089,699	35.60
45	5	0.00552	2.500	0.02721	84,554	2,300	417,020	0.96903	2,661,340	31.47
50	5	0.00709	2.500	0.03484	82,254	2,866	404,104	0.96034	2,244,320	27.29
55	5	0.00913	2.500	0.04465	79,388	3,544	388,078	0.94334	1,840,216	23.18
60	5	0.01434	2.500	0.06923	75,843	5,250	366,091	0.90989	1,452,138	19.15
65	5	0.02385	2.500	0.11256	70,593	7,946	333,101	0.85475	1,086,046	15.38
70	5	0.04007	2.500	0.18209	62,647	11,407	284,719	0.77061	752,945	12.02
75	5	0.06708	2.500	0.28722	51,240	14,717	219,408	0.53141	468,227	9.14
80	+	0.14679	6.813	1.00000	36,523	36,523	248,818		248,818	6.81

Arusha

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03300	0.135	0.03208	100,000	3,208	97,224	0.96467	6,875,587	68.76
1	4	0.00238	1.762	0.00948	96,792	918	385,113	0.99103	6,778,363	70.03
5	5	0.00114	2.500	0.00566	95,874	543	478,013	0.99508	6,393,250	66.68
10	5	0.00084	2.500	0.00418	95,331	399	475,659	0.99377	5,915,237	62.05
15	5	0.00167	2.500	0.00829	94,932	787	472,694	0.98985	5,439,578	57.30
20	5	0.00242	2.500	0.01203	94,145	1,132	467,895	0.98786	4,966,884	52.76
25	5	0.00247	2.500	0.01226	93,013	1,140	462,214	0.98716	4,498,989	48.37
30	5	0.00271	2.500	0.01344	91,873	1,235	456,278	0.98573	4,036,774	43.94
35	5	0.00305	2.500	0.01511	90,638	1,370	449,767	0.98296	3,580,497	39.50
40	5	0.00384	2.500	0.01900	89,268	1,696	442,101	0.97793	3,130,730	35.07
45	5	0.00511	2.500	0.02520	87,572	2,207	432,342	0.96814	2,688,628	30.70
50	5	0.00789	2.500	0.03869	85,365	3,303	418,568	0.95488	2,256,286	26.43
55	5	0.01064	2.500	0.05181	82,062	4,252	399,682	0.93384	1,837,718	22.39
60	5	0.01695	2.500	0.08129	77,811	6,325	373,240	0.89707	1,438,036	18.48
65	5	0.02701	2.500	0.12649	71,485	9,042	334,821	0.84156	1,064,795	14.90
70	5	0.04322	2.500	0.19501	62,443	12,177	281,773	0.75723	729,974	11.69
75	5	0.07117	2.500	0.30210	50,266	15,185	213,367	0.52395	448,202	8.92
80	+	0.14939	6.694	1.00000	35,081	35,081	234,834		234,834	6.69

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.02635	0.127	0.02575	100,000	2,575	97,752	0.97142	7,226,592	72.27
1	4	0.00194	1.691	0.00774	97,425	754	387,957	0.99332	7,128,840	73.17
5	5	0.00073	2.500	0.00367	96,670	354	482,467	0.99658	6,740,883	69.73
10	5	0.00064	2.500	0.00317	96,316	306	480,817	0.99596	6,258,416	64.98
15	5	0.00098	2.500	0.00491	96,011	471	478,875	0.99408	5,777,599	60.18
20	5	0.00139	2.500	0.00693	95,539	662	476,041	0.99248	5,298,725	55.46
25	5	0.00163	2.500	0.00810	94,877	769	472,462	0.99148	4,822,684	50.83
30	5	0.00180	2.500	0.00895	94,108	842	468,435	0.99027	4,350,222	46.23
35	5	0.00211	2.500	0.01052	93,266	981	463,877	0.98723	3,881,787	41.62
40	5	0.00303	2.500	0.01505	92,285	1,389	457,952	0.98300	3,417,910	37.04
45	5	0.00383	2.500	0.01898	90,896	1,725	450,167	0.97627	2,959,958	32.56
50	5	0.00580	2.500	0.02857	89,171	2,548	439,485	0.96655	2,509,791	28.15
55	5	0.00785	2.500	0.03848	86,623	3,333	424,782	0.95019	2,070,306	23.90
60	5	0.01271	2.500	0.06158	83,290	5,129	403,626	0.91871	1,645,524	19.76
65	5	0.02156	2.500	0.10230	78,161	7,996	370,813	0.86624	1,241,898	15.89
70	5	0.03687	2.500	0.16881	70,165	11,845	321,212	0.78456	871,085	12.41
75	5	0.06284	2.500	0.27154	58,320	15,836	252,011	0.54169	549,872	9.43
80	+	0.14263	7.011	1.00000	42,484	42,484	297,861		297,861	7.01

Kilimanjaro

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03266	0.134	0.03177	100,000	3,177	97,249	0.96504	6,625,935	66.26
1	4	0.00234	1.763	0.00933	96,823	903	385,274	0.99059	6,528,686	67.43
5	5	0.00135	2.500	0.00675	95,920	647	477,983	0.99324	6,143,412	64.05
10	5	0.00136	2.500	0.00678	95,273	646	474,751	0.99135	5,665,429	59.47
15	5	0.00212	2.500	0.01054	94,627	997	470,642	0.98808	5,190,678	54.85
20	5	0.00268	2.500	0.01331	93,630	1,246	465,034	0.98459	4,720,036	50.41
25	5	0.00354	2.500	0.01755	92,384	1,621	457,867	0.97943	4,255,002	46.06
30	5	0.00479	2.500	0.02364	90,763	2,146	448,449	0.97192	3,797,135	41.84
35	5	0.00663	2.500	0.03262	88,617	2,891	435,857	0.96608	3,348,686	37.79
40	5	0.00718	2.500	0.03526	85,726	3,022	421,073	0.96369	2,912,829	33.98
45	5	0.00762	2.500	0.03740	82,703	3,093	405,785	0.95930	2,491,756	30.13
50	5	0.00902	2.500	0.04413	79,611	3,513	389,271	0.95014	2,085,971	26.20
55	5	0.01149	2.500	0.05586	76,098	4,250	369,862	0.93079	1,696,700	22.30
60	5	0.01740	2.500	0.08336	71,847	5,989	344,262	0.89582	1,326,839	18.47
65	5	0.02710	2.500	0.12689	65,858	8,356	308,397	0.84168	982,577	14.92
70	5	0.04305	2.500	0.19432	57,501	11,174	259,572	0.75830	674,179	11.72
75	5	0.07073	2.500	0.30051	46,328	13,922	196,834	0.52525	414,607	8.95
80	+	0.14881	6.720	1.00000	32,406	32,406	217,773		217,773	6.72

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.02801	0.132	0.02735	100,000	2,735	97,626	0.96933	6,839,601	68.40
1	4	0.00226	1.689	0.00899	97,265	875	387,039	0.99149	6,741,975	69.32
5	5	0.00118	2.500	0.00587	96,391	566	480,539	0.99359	6,354,936	65.93
10	5	0.00139	2.500	0.00695	95,825	666	477,461	0.99276	5,874,397	61.30
15	5	0.00151	2.500	0.00753	95,159	717	474,006	0.99083	5,396,936	56.71
20	5	0.00218	2.500	0.01083	94,443	1,023	469,657	0.98494	4,922,930	52.13
25	5	0.00391	2.500	0.01934	93,420	1,807	462,583	0.97790	4,453,273	47.67
30	5	0.00504	2.500	0.02491	91,613	2,282	452,361	0.97066	3,990,691	43.56
35	5	0.00689	2.500	0.03388	89,331	3,026	439,091	0.96707	3,538,330	39.61
40	5	0.00649	2.500	0.03194	86,305	2,757	424,633	0.96921	3,099,239	35.91
45	5	0.00601	2.500	0.02960	83,548	2,473	411,559	0.96849	2,674,605	32.01
50	5	0.00681	2.500	0.03347	81,075	2,714	398,591	0.96297	2,263,047	27.91
55	5	0.00831	2.500	0.04070	78,361	3,189	383,832	0.94848	1,864,456	23.79
60	5	0.01297	2.500	0.06281	75,172	4,721	364,056	0.91763	1,480,623	19.70
65	5	0.02177	2.500	0.10325	70,450	7,274	334,068	0.86528	1,116,568	15.85
70	5	0.03712	2.500	0.16982	63,177	10,729	289,061	0.78357	782,500	12.39
75	5	0.06312	2.500	0.27259	52,448	14,297	226,498	0.54098	493,439	9.41
80	+	0.14292	6.997	1.00000	38,151	38,151	266,940		266,940	7.00

Tanga

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05059	0.182	0.04858	100,000	4,858	96,027	0.94393	6,332,834	63.33
1	4	0.00538	1.713	0.02128	95,142	2,024	375,936	0.98090	6,236,807	65.55
5	5	0.00228	2.500	0.01134	93,117	1,056	462,948	0.99037	5,860,871	62.94
10	5	0.00159	2.500	0.00790	92,062	727	458,491	0.99002	5,397,923	58.63
15	5	0.00243	2.500	0.01209	91,335	1,104	453,914	0.98565	4,939,432	54.08
20	5	0.00336	2.500	0.01664	90,231	1,502	447,400	0.98247	4,485,518	49.71
25	5	0.00372	2.500	0.01843	88,729	1,635	439,559	0.98004	4,038,117	45.51
30	5	0.00435	2.500	0.02152	87,094	1,874	430,785	0.97613	3,598,558	41.32
35	5	0.00532	2.500	0.02627	85,220	2,239	420,501	0.97144	3,167,773	37.17
40	5	0.00628	2.500	0.03091	82,981	2,565	408,492	0.96634	2,747,272	33.11
45	5	0.00744	2.500	0.03650	80,416	2,935	394,743	0.95743	2,338,779	29.08
50	5	0.01002	2.500	0.04886	77,481	3,786	377,940	0.94401	1,944,036	25.09
55	5	0.01311	2.500	0.06347	73,695	4,678	356,781	0.92127	1,566,097	21.25
60	5	0.01995	2.500	0.09503	69,017	6,559	328,690	0.88195	1,209,316	17.52
65	5	0.03092	2.500	0.14349	62,459	8,962	289,888	0.82228	880,626	14.10
70	5	0.04886	2.500	0.21769	53,497	11,646	238,369	0.73343	590,738	11.04
75	5	0.07877	2.500	0.32905	41,851	13,771	174,827	0.50385	352,369	8.42
80	+	0.15816	6.323	1.00000	28,080	28,080	177,542		177,542	6.32

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04221	0.172	0.04079	100,000	4,079	96,624	0.95213	6,530,652	65.31
1	4	0.00480	1.667	0.01897	95,921	1,820	379,439	0.98336	6,434,028	67.08
5	5	0.00202	2.500	0.01006	94,102	947	468,142	0.99065	6,054,589	64.34
10	5	0.00173	2.500	0.00862	93,155	803	463,767	0.99087	5,586,447	59.97
15	5	0.00194	2.500	0.00964	92,352	890	459,532	0.98870	5,122,680	55.47
20	5	0.00261	2.500	0.01297	91,461	1,187	454,340	0.98359	4,663,148	50.98
25	5	0.00402	2.500	0.01989	90,275	1,796	446,884	0.97768	4,208,809	46.62
30	5	0.00502	2.500	0.02481	88,479	2,195	436,908	0.97143	3,761,924	42.52
35	5	0.00659	2.500	0.03242	86,284	2,798	424,427	0.96749	3,325,016	38.54
40	5	0.00663	2.500	0.03259	83,487	2,721	410,630	0.96751	2,900,589	34.74
45	5	0.00658	2.500	0.03239	80,766	2,616	397,288	0.96451	2,489,958	30.83
50	5	0.00789	2.500	0.03869	78,150	3,024	383,188	0.95646	2,092,671	26.78
55	5	0.00996	2.500	0.04858	75,126	3,649	366,505	0.93906	1,709,483	22.75
60	5	0.01535	2.500	0.07393	71,476	5,284	344,171	0.90452	1,342,978	18.79
65	5	0.02525	2.500	0.11876	66,192	7,861	311,308	0.84775	998,807	15.09
70	5	0.04205	2.500	0.19026	58,331	11,098	263,912	0.76212	687,499	11.79
75	5	0.06968	2.500	0.29670	47,233	14,014	201,132	0.52517	423,588	8.97
80	+	0.14933	6.697	1.00000	33,219	33,219	222,456		222,456	6.70

Morogoro

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05678	0.199	0.05431	100,000	5,431	95,648	0.93675	6,040,204	60.40
1	4	0.00646	1.695	0.02548	94,569	2,409	372,725	0.97695	5,944,556	62.86
5	5	0.00282	2.500	0.01399	92,160	1,289	457,578	0.98770	5,571,830	60.46
10	5	0.00213	2.500	0.01058	90,871	962	451,951	0.98743	5,114,252	56.28
15	5	0.00294	2.500	0.01458	89,909	1,311	446,270	0.98326	4,662,302	51.86
20	5	0.00382	2.500	0.01894	88,599	1,678	438,799	0.97885	4,216,032	47.59
25	5	0.00473	2.500	0.02339	86,921	2,033	429,520	0.97347	3,777,233	43.46
30	5	0.00604	2.500	0.02974	84,887	2,524	418,126	0.96554	3,347,713	39.44
35	5	0.00802	2.500	0.03933	82,363	3,239	403,717	0.95863	2,929,588	35.57
40	5	0.00889	2.500	0.04351	79,124	3,442	387,014	0.95484	2,525,870	31.92
45	5	0.00960	2.500	0.04688	75,682	3,548	369,537	0.94901	2,138,857	28.26
50	5	0.01137	2.500	0.05530	72,133	3,989	350,694	0.93767	1,769,319	24.53
55	5	0.01446	2.500	0.06977	68,144	4,754	328,836	0.91515	1,418,625	20.82
60	5	0.02129	2.500	0.10105	63,390	6,406	300,935	0.87589	1,089,789	17.19
65	5	0.03238	2.500	0.14976	56,984	8,534	263,586	0.81548	788,854	13.84
70	5	0.05081	2.500	0.22540	48,450	10,921	214,950	0.72555	525,267	10.84
75	5	0.08128	2.500	0.33777	37,530	12,676	155,958	0.49743	310,317	8.27
80	+	0.16101	6.211	1.00000	24,853	24,853	154,359		154,359	6.21

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04209	0.172	0.04068	100,000	4,068	96,632	0.95235	6,427,315	64.27
1	4	0.00473	1.667	0.01870	95,932	1,794	379,544	0.98324	6,330,683	65.99
5	5	0.00213	2.500	0.01061	94,138	999	468,196	0.98980	5,951,139	63.22
10	5	0.00197	2.500	0.00979	93,140	912	463,419	0.98988	5,482,943	58.87
15	5	0.00210	2.500	0.01045	92,228	963	458,731	0.98770	5,019,524	54.43
20	5	0.00285	2.500	0.01417	91,265	1,293	453,090	0.98107	4,560,792	49.97
25	5	0.00481	2.500	0.02377	89,972	2,139	444,511	0.97298	4,107,702	45.66
30	5	0.00616	2.500	0.03035	87,833	2,666	432,500	0.96460	3,663,191	41.71
35	5	0.00829	2.500	0.04061	85,167	3,459	417,188	0.96045	3,230,691	37.93
40	5	0.00784	2.500	0.03844	81,708	3,141	400,689	0.96280	2,813,503	34.43
45	5	0.00731	2.500	0.03591	78,567	2,822	385,783	0.96203	2,412,815	30.71
50	5	0.00818	2.500	0.04010	75,746	3,038	371,135	0.95558	2,027,032	26.76
55	5	0.01003	2.500	0.04891	72,708	3,556	354,650	0.93896	1,655,897	22.77
60	5	0.01532	2.500	0.07379	69,152	5,103	333,002	0.90482	1,301,247	18.82
65	5	0.02514	2.500	0.11827	64,049	7,575	301,308	0.84837	968,245	15.12
70	5	0.04186	2.500	0.18948	56,474	10,701	255,620	0.76296	666,937	11.81
75	5	0.06940	2.500	0.29571	45,774	13,536	195,028	0.52584	411,317	8.99
80	+	0.14905	6.709	1.00000	32,238	32,238	216,289		216,289	6.71

Pwani

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05973	0.206	0.05702	100,000	5,702	95,475	0.93327	5,970,430	59.70
1	4	0.00702	1.687	0.02764	94,298	2,607	371,162	0.97514	5,874,956	62.30
5	5	0.00301	2.500	0.01492	91,691	1,368	455,035	0.98698	5,503,793	60.03
10	5	0.00223	2.500	0.01109	90,323	1,001	449,111	0.98693	5,048,758	55.90
15	5	0.00304	2.500	0.01507	89,321	1,346	443,241	0.98264	4,599,648	51.50
20	5	0.00397	2.500	0.01967	87,975	1,731	435,548	0.97812	4,156,407	47.25
25	5	0.00488	2.500	0.02412	86,244	2,080	426,020	0.97272	3,720,859	43.14
30	5	0.00620	2.500	0.03052	84,164	2,569	414,398	0.96469	3,294,838	39.15
35	5	0.00822	2.500	0.04026	81,595	3,285	399,763	0.95762	2,880,441	35.30
40	5	0.00912	2.500	0.04459	78,310	3,492	382,821	0.95366	2,480,677	31.68
45	5	0.00987	2.500	0.04816	74,818	3,603	365,082	0.94766	2,097,857	28.04
50	5	0.01168	2.500	0.05674	71,215	4,040	345,972	0.93605	1,732,775	24.33
55	5	0.01485	2.500	0.07159	67,174	4,809	323,848	0.91316	1,386,803	20.64
60	5	0.02178	2.500	0.10327	62,365	6,440	295,725	0.87340	1,062,954	17.04
65	5	0.03305	2.500	0.15262	55,925	8,535	258,287	0.81223	767,229	13.72
70	5	0.05179	2.500	0.22925	47,390	10,864	209,789	0.72154	508,943	10.74
75	5	0.08260	2.500	0.34232	36,526	12,503	151,370	0.49401	299,154	8.19
80	+	0.16255	6.152	1.00000	24,022	24,022	147,784		147,784	6.15

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04720	0.186	0.04545	100,000	4,545	96,302	0.94598	6,065,037	60.65
1	4	0.00582	1.659	0.02297	95,455	2,193	376,686	0.97911	5,968,735	62.53
5	5	0.00277	2.500	0.01374	93,262	1,281	463,107	0.98636	5,592,049	59.96
10	5	0.00273	2.500	0.01354	91,981	1,245	456,790	0.98658	5,128,942	55.76
15	5	0.00268	2.500	0.01330	90,735	1,207	450,659	0.98430	4,672,151	51.49
20	5	0.00366	2.500	0.01814	89,528	1,624	443,583	0.97420	4,221,492	47.15
25	5	0.00684	2.500	0.03360	87,905	2,954	432,139	0.96126	3,777,909	42.98
30	5	0.00901	2.500	0.04406	84,951	3,743	415,398	0.94812	3,345,770	39.38
35	5	0.01239	2.500	0.06007	81,208	4,878	393,847	0.94333	2,930,373	36.08
40	5	0.01090	2.500	0.05307	76,330	4,051	371,525	0.95048	2,536,526	33.23
45	5	0.00937	2.500	0.04577	72,280	3,308	353,128	0.95423	2,165,000	29.95
50	5	0.00937	2.500	0.04577	68,971	3,157	336,965	0.95065	1,811,872	26.27
55	5	0.01091	2.500	0.05311	65,815	3,495	320,335	0.93478	1,474,907	22.41
60	5	0.01624	2.500	0.07801	62,319	4,862	299,442	0.90019	1,154,572	18.53
65	5	0.02632	2.500	0.12346	57,458	7,093	269,554	0.84264	855,130	14.88
70	5	0.04347	2.500	0.19603	50,364	9,873	227,138	0.75616	585,576	11.63
75	5	0.07150	2.500	0.30330	40,491	12,281	171,754	0.52083	358,438	8.85
80	+	0.15111	6.618	1.00000	28,210	28,210	186,684		186,684	6.62

Dar es Salaam

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05684	0.199	0.05436	100,000	5,436	95,645	0.93623	5,724,098	57.24
1	4	0.00674	1.695	0.02654	94,564	2,510	372,471	0.97542	5,628,453	59.52
5	5	0.00321	2.500	0.01590	92,054	1,464	456,611	0.98481	5,255,982	57.10
10	5	0.00292	2.500	0.01447	90,590	1,311	449,674	0.98375	4,799,371	52.98
15	5	0.00364	2.500	0.01805	89,279	1,612	442,368	0.98044	4,349,697	48.72
20	5	0.00426	2.500	0.02109	87,668	1,849	433,717	0.97382	3,907,329	44.57
25	5	0.00638	2.500	0.03138	85,819	2,693	422,363	0.96209	3,473,613	40.48
30	5	0.00914	2.500	0.04466	83,126	3,713	406,350	0.94565	3,051,249	36.71
35	5	0.01333	2.500	0.06449	79,414	5,121	384,266	0.93433	2,644,899	33.31
40	5	0.01385	2.500	0.06693	74,293	4,972	359,032	0.93421	2,260,633	30.43
45	5	0.01335	2.500	0.06457	69,320	4,476	335,411	0.93594	1,901,601	27.43
50	5	0.01312	2.500	0.06350	64,844	4,118	313,926	0.93042	1,566,190	24.15
55	5	0.01582	2.500	0.07607	60,726	4,619	292,083	0.91016	1,252,264	20.62
60	5	0.02211	2.500	0.10475	56,107	5,877	265,842	0.87324	960,181	17.11
65	5	0.03275	2.500	0.15134	50,230	7,602	232,144	0.81443	694,339	13.82
70	5	0.05094	2.500	0.22591	42,628	9,630	189,065	0.72543	462,195	10.84
75	5	0.08118	2.500	0.33743	32,998	11,134	137,154	0.49785	273,130	8.28
80	+	0.16079	6.219	1.00000	21,864	21,864	135,977		135,977	6.22

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04501	0.180	0.04340	100,000	4,340	96,442	0.94809	6,158,395	61.58
1	4	0.00570	1.662	0.02251	95,660	2,153	377,604	0.97990	6,061,953	63.37
5	5	0.00260	2.500	0.01290	93,506	1,206	464,516	0.98726	5,684,349	60.79
10	5	0.00253	2.500	0.01258	92,300	1,161	458,599	0.98744	5,219,833	56.55
15	5	0.00253	2.500	0.01255	91,139	1,144	452,837	0.98519	4,761,234	52.24
20	5	0.00345	2.500	0.01710	89,995	1,539	446,131	0.97599	4,308,397	47.87
25	5	0.00631	2.500	0.03104	88,457	2,746	435,419	0.96430	3,862,266	43.66
30	5	0.00827	2.500	0.04051	85,711	3,472	419,874	0.95238	3,426,846	39.98
35	5	0.01132	2.500	0.05503	82,239	4,526	399,879	0.94779	3,006,973	36.56
40	5	0.01010	2.500	0.04923	77,713	3,826	378,999	0.95372	2,607,094	33.55
45	5	0.00882	2.500	0.04317	73,887	3,190	361,460	0.95627	2,228,095	30.16
50	5	0.00906	2.500	0.04432	70,697	3,133	345,653	0.95197	1,866,634	26.40
55	5	0.01066	2.500	0.05192	67,564	3,508	329,050	0.93595	1,520,981	22.51
60	5	0.01599	2.500	0.07685	64,056	4,923	307,973	0.90148	1,191,931	18.61
65	5	0.02598	2.500	0.12199	59,133	7,214	277,631	0.84425	883,958	14.95
70	5	0.04302	2.500	0.19419	51,919	10,082	234,390	0.75809	606,328	11.68
75	5	0.07090	2.500	0.30113	41,837	12,598	177,689	0.52226	371,937	8.89
80	+	0.15052	6.644	1.00000	29,239	29,239	194,249		194,249	6.64

Lindi

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05911	0.205	0.05645	100,000	5,645	95,511	0.93498	6,115,780	61.16
1	4	0.00633	1.689	0.02494	94,355	2,353	371,980	0.97720	6,020,269	63.80
5	5	0.00278	2.500	0.01379	92,001	1,269	456,834	0.98833	5,648,289	61.39
10	5	0.00191	2.500	0.00952	90,732	864	451,503	0.98839	5,191,454	57.22
15	5	0.00277	2.500	0.01373	89,869	1,234	446,259	0.98385	4,739,952	52.74
20	5	0.00375	2.500	0.01860	88,635	1,648	439,053	0.98011	4,293,693	48.44
25	5	0.00429	2.500	0.02121	86,986	1,845	430,320	0.97676	3,854,640	44.31
30	5	0.00513	2.500	0.02532	85,142	2,156	420,320	0.97152	3,424,320	40.22
35	5	0.00645	2.500	0.03173	82,986	2,633	408,347	0.96592	3,004,001	36.20
40	5	0.00744	2.500	0.03650	80,353	2,933	394,430	0.96090	2,595,654	32.30
45	5	0.00854	2.500	0.04180	77,419	3,236	379,006	0.95255	2,201,224	28.43
50	5	0.01096	2.500	0.05334	74,183	3,957	361,023	0.93927	1,822,218	24.56
55	5	0.01420	2.500	0.06855	70,226	4,814	339,097	0.91588	1,461,194	20.81
60	5	0.02124	2.500	0.10083	65,412	6,595	310,573	0.87568	1,122,098	17.15
65	5	0.03254	2.500	0.15044	58,817	8,848	271,963	0.81444	811,525	13.80
70	5	0.05119	2.500	0.22689	49,968	11,337	221,498	0.72389	539,561	10.80
75	5	0.08186	2.500	0.33977	38,631	13,126	160,340	0.49588	318,063	8.23
80	+	0.16171	6.184	1.00000	25,505	25,505	157,723		157,723	6.18

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03840	0.162	0.03721	100,000	3,721	96,881	0.95826	6,642,479	66.42
1	4	0.00323	1.672	0.01281	96,279	1,233	382,247	0.98769	6,545,598	67.99
5	5	0.00169	2.500	0.00842	95,046	800	473,231	0.99178	6,163,352	64.85
10	5	0.00161	2.500	0.00801	94,246	755	469,343	0.99155	5,690,121	60.38
15	5	0.00179	2.500	0.00889	93,491	831	465,377	0.98945	5,220,778	55.84
20	5	0.00246	2.500	0.01223	92,660	1,133	460,468	0.98384	4,755,401	51.32
25	5	0.00407	2.500	0.02014	91,527	1,843	453,027	0.97720	4,294,933	46.93
30	5	0.00517	2.500	0.02551	89,684	2,288	442,700	0.97029	3,841,906	42.84
35	5	0.00692	2.500	0.03403	87,396	2,974	429,546	0.96643	3,399,206	38.89
40	5	0.00673	2.500	0.03309	84,422	2,794	415,127	0.96762	2,969,660	35.18
45	5	0.00643	2.500	0.03164	81,629	2,583	401,685	0.96585	2,554,533	31.29
50	5	0.00749	2.500	0.03675	79,045	2,905	387,966	0.95905	2,152,848	27.24
55	5	0.00927	2.500	0.04532	76,141	3,451	372,078	0.94298	1,764,882	23.18
60	5	0.01435	2.500	0.06927	72,690	5,035	350,862	0.90999	1,392,805	19.16
65	5	0.02379	2.500	0.11229	67,655	7,597	319,282	0.85508	1,041,942	15.40
70	5	0.03996	2.500	0.18167	60,058	10,911	273,013	0.77109	722,660	12.03
75	5	0.06692	2.500	0.28663	49,147	14,087	210,518	0.53182	449,648	9.15
80	+	0.14662	6.821	1.00000	35,060	35,060	239,130		239,130	6.82

Mtwara

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05460	0.193	0.05230	100,000	5,230	95,779	0.94020	6,183,155	61.83
1	4	0.00553	1.701	0.02185	94,770	2,071	374,321	0.97974	6,087,376	64.23
5	5	0.00254	2.500	0.01261	92,699	1,169	460,573	0.98905	5,713,055	61.63
10	5	0.00186	2.500	0.00926	91,530	848	455,530	0.98869	5,252,482	57.39
15	5	0.00269	2.500	0.01338	90,682	1,214	450,376	0.98444	4,796,952	52.90
20	5	0.00359	2.500	0.01777	89,468	1,590	443,368	0.98060	4,346,576	48.58
25	5	0.00426	2.500	0.02106	87,879	1,851	434,767	0.97652	3,903,208	44.42
30	5	0.00526	2.500	0.02596	86,028	2,233	424,558	0.97031	3,468,441	40.32
35	5	0.00682	2.500	0.03351	83,795	2,808	411,955	0.96440	3,043,883	36.33
40	5	0.00770	2.500	0.03775	80,987	3,057	397,291	0.96012	2,631,928	32.50
45	5	0.00860	2.500	0.04210	77,930	3,281	381,446	0.95299	2,234,637	28.68
50	5	0.01071	2.500	0.05214	74,649	3,892	363,514	0.94086	1,853,192	24.83
55	5	0.01376	2.500	0.06653	70,757	4,708	342,015	0.91837	1,489,678	21.05
60	5	0.02056	2.500	0.09780	66,049	6,459	314,098	0.87923	1,147,663	17.38
65	5	0.03156	2.500	0.14624	59,590	8,715	276,163	0.81932	833,565	13.99
70	5	0.04970	2.500	0.22102	50,875	11,244	226,266	0.73006	557,402	10.96
75	5	0.07983	2.500	0.33275	39,631	13,187	165,187	0.50115	331,137	8.36
80	+	0.15935	6.276	1.00000	26,444	26,444	165,950		165,950	6.28

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03919	0.164	0.03795	100,000	3,795	96,827	0.95705	6,505,881	65.06
1	4	0.00351	1.671	0.01394	96,205	1,341	381,698	0.98658	6,409,054	66.62
5	5	0.00188	2.500	0.00936	94,864	888	472,101	0.99060	6,027,356	63.54
10	5	0.00190	2.500	0.00944	93,976	887	467,663	0.99034	5,555,256	59.11
15	5	0.00199	2.500	0.00989	93,089	921	463,144	0.98823	5,087,593	54.65
20	5	0.00275	2.500	0.01367	92,168	1,260	457,692	0.98114	4,624,448	50.17
25	5	0.00488	2.500	0.02412	90,908	2,193	449,061	0.97238	4,166,756	45.83
30	5	0.00634	2.500	0.03120	88,716	2,768	436,660	0.96339	3,717,696	41.91
35	5	0.00862	2.500	0.04221	85,948	3,627	420,672	0.95935	3,281,036	38.17
40	5	0.00796	2.500	0.03903	82,321	3,213	403,570	0.96269	2,860,364	34.75
45	5	0.00723	2.500	0.03552	79,107	2,810	388,512	0.96290	2,456,794	31.06
50	5	0.00790	2.500	0.03874	76,298	2,956	374,098	0.95749	2,068,282	27.11
55	5	0.00951	2.500	0.04642	73,342	3,405	358,197	0.94197	1,694,183	23.10
60	5	0.01455	2.500	0.07021	69,937	4,910	337,410	0.90904	1,335,986	19.10
65	5	0.02401	2.500	0.11327	65,027	7,366	306,721	0.85402	998,576	15.36
70	5	0.04026	2.500	0.18287	57,661	10,545	261,945	0.76986	691,855	12.00
75	5	0.06729	2.500	0.28799	47,117	13,569	201,660	0.53093	429,911	9.12
80	+	0.14698	6.804	1.00000	33,548	33,548	228,251		228,251	6.80

Ruvuma

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05472	0.193	0.05241	100,000	5,241	95,772	0.93921	5,897,000	58.97
1	4	0.00605	1.701	0.02388	94,759	2,262	373,836	0.97775	5,801,228	61.22
5	5	0.00290	2.500	0.01438	92,497	1,330	459,158	0.98650	5,427,392	58.68
10	5	0.00254	2.500	0.01260	91,166	1,149	452,960	0.98555	4,968,234	54.50
15	5	0.00329	2.500	0.01632	90,017	1,469	446,415	0.98202	4,515,275	50.16
20	5	0.00397	2.500	0.01967	88,549	1,742	438,389	0.97633	4,068,859	45.95
25	5	0.00563	2.500	0.02776	86,807	2,409	428,010	0.96699	3,630,471	41.82
30	5	0.00783	2.500	0.03842	84,397	3,242	413,881	0.95378	3,202,461	37.95
35	5	0.01117	2.500	0.05434	81,155	4,410	394,750	0.94426	2,788,580	34.36
40	5	0.01178	2.500	0.05722	76,745	4,391	372,748	0.94295	2,393,829	31.19
45	5	0.01171	2.500	0.05686	72,354	4,114	351,485	0.94204	2,021,081	27.93
50	5	0.01219	2.500	0.05912	68,240	4,035	331,112	0.93456	1,669,597	24.47
55	5	0.01497	2.500	0.07215	64,205	4,633	309,444	0.91378	1,338,484	20.85
60	5	0.02136	2.500	0.10137	59,573	6,039	282,765	0.87644	1,029,040	17.27
65	5	0.03203	2.500	0.14826	53,534	7,937	247,826	0.81766	746,275	13.94
70	5	0.05004	2.500	0.22236	45,597	10,139	202,637	0.72897	498,449	10.93
75	5	0.08008	2.500	0.33362	35,458	11,829	147,716	0.50064	295,812	8.34
80	+	0.15955	6.268	1.00000	23,629	23,629	148,096		148,096	6.27

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04415	0.178	0.04260	100,000	4,260	96,497	0.94977	6,150,902	61.51
1	4	0.00517	1.664	0.02043	95,740	1,956	378,389	0.98121	6,054,404	63.24
5	5	0.00254	2.500	0.01260	93,784	1,181	465,964	0.98726	5,676,015	60.52
10	5	0.00259	2.500	0.01288	92,602	1,193	460,029	0.98723	5,210,051	56.26
15	5	0.00255	2.500	0.01265	91,409	1,156	454,155	0.98502	4,750,023	51.96
20	5	0.00350	2.500	0.01734	90,253	1,565	447,351	0.97511	4,295,867	47.60
25	5	0.00662	2.500	0.03257	88,688	2,889	436,216	0.96241	3,848,517	43.39
30	5	0.00874	2.500	0.04278	85,799	3,670	419,819	0.94953	3,412,300	39.77
35	5	0.01205	2.500	0.05850	82,129	4,805	398,631	0.94487	2,992,481	36.44
40	5	0.01058	2.500	0.05154	77,324	3,986	376,655	0.95198	2,593,850	33.55
45	5	0.00906	2.500	0.04430	73,338	3,249	358,569	0.95571	2,217,195	30.23
50	5	0.00905	2.500	0.04427	70,089	3,103	342,689	0.95234	1,858,627	26.52
55	5	0.01051	2.500	0.05120	66,986	3,430	326,357	0.93696	1,515,937	22.63
60	5	0.01569	2.500	0.07551	63,556	4,799	305,784	0.90310	1,189,581	18.72
65	5	0.02554	2.500	0.12004	58,757	7,053	276,153	0.84648	883,796	15.04
70	5	0.04237	2.500	0.19157	51,704	9,905	233,757	0.76083	607,644	11.75
75	5	0.07005	2.500	0.29804	41,799	12,458	177,850	0.52432	373,887	8.94
80	+	0.14967	6.681	1.00000	29,341	29,341	196,037		196,037	6.68

Iringa

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.07018	0.234	0.06660	100,000	6,660	94,898	0.92086	5,319,105	53.19
1	4	0.00914	1.658	0.03580	93,340	3,342	365,534	0.96714	5,224,207	55.97
5	5	0.00421	2.500	0.02084	89,998	1,875	445,302	0.98032	4,858,673	53.99
10	5	0.00373	2.500	0.01849	88,123	1,630	436,539	0.97979	4,413,371	50.08
15	5	0.00444	2.500	0.02196	86,493	1,899	427,716	0.97645	3,976,833	45.98
20	5	0.00510	2.500	0.02517	84,594	2,130	417,644	0.96826	3,549,116	41.95
25	5	0.00785	2.500	0.03848	82,464	3,173	404,387	0.95322	3,131,472	37.97
30	5	0.01140	2.500	0.05541	79,291	4,394	385,470	0.93236	2,727,085	34.39
35	5	0.01679	2.500	0.08058	74,897	6,035	359,399	0.91827	2,341,615	31.26
40	5	0.01731	2.500	0.08298	68,862	5,714	330,026	0.91913	1,982,217	28.79
45	5	0.01636	2.500	0.07857	63,148	4,962	303,337	0.92379	1,652,191	26.16
50	5	0.01529	2.500	0.07366	58,187	4,286	280,218	0.92002	1,348,854	23.18
55	5	0.01815	2.500	0.08680	53,901	4,679	257,807	0.89927	1,068,636	19.83
60	5	0.02462	2.500	0.11598	49,222	5,709	231,838	0.86146	810,829	16.47
65	5	0.03575	2.500	0.16406	43,513	7,139	199,719	0.80034	578,991	13.31
70	5	0.05512	2.500	0.24224	36,374	8,811	159,843	0.70864	379,272	10.43
75	5	0.08667	2.500	0.35619	27,563	9,818	113,271	0.48379	219,429	7.96
80	+	0.16716	5.982	1.00000	17,745	17,745	106,158		106,158	5.98

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05503	0.208	0.05273	100,000	5,273	95,825	0.93607	5,771,154	57.71
1	4	0.00765	1.647	0.03005	94,727	2,846	372,210	0.97311	5,675,329	59.91
5	5	0.00347	2.500	0.01721	91,880	1,581	455,450	0.98319	5,303,119	57.72
10	5	0.00331	2.500	0.01642	90,300	1,482	447,792	0.98386	4,847,669	53.68
15	5	0.00320	2.500	0.01585	88,817	1,408	440,566	0.98147	4,399,878	49.54
20	5	0.00430	2.500	0.02125	87,409	1,857	432,403	0.96975	3,959,312	45.30
25	5	0.00805	2.500	0.03944	85,552	3,374	419,324	0.95449	3,526,909	41.23
30	5	0.01064	2.500	0.05184	82,178	4,260	400,240	0.93904	3,107,585	37.82
35	5	0.01463	2.500	0.07059	77,918	5,500	375,840	0.93376	2,707,345	34.75
40	5	0.01270	2.500	0.06157	72,418	4,458	350,944	0.94289	2,331,504	32.20
45	5	0.01076	2.500	0.05237	67,960	3,559	330,900	0.94836	1,980,560	29.14
50	5	0.01044	2.500	0.05088	64,401	3,276	313,812	0.94545	1,649,660	25.62
55	5	0.01204	2.500	0.05843	61,124	3,571	296,692	0.92885	1,335,848	21.85
60	5	0.01768	2.500	0.08465	57,553	4,872	275,584	0.89266	1,039,156	18.06
65	5	0.02829	2.500	0.13213	52,681	6,961	246,002	0.83294	763,572	14.49
70	5	0.04626	2.500	0.20731	45,720	9,478	204,906	0.74452	517,569	11.32
75	5	0.07513	2.500	0.31624	36,242	11,461	152,557	0.51207	312,664	8.63
80	+	0.15478	6.461	1.00000	24,781	24,781	160,107		160,107	6.46

Mbeya

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05609	0.197	0.05367	100,000	5,367	95,689	0.93749	5,628,196	56.28
1	4	0.00638	1.697	0.02513	94,633	2,378	373,055	0.97604	5,532,507	58.46
5	5	0.00329	2.500	0.01629	92,255	1,503	457,514	0.98389	5,159,452	55.93
10	5	0.00321	2.500	0.01593	90,751	1,446	450,142	0.98240	4,701,938	51.81
15	5	0.00390	2.500	0.01929	89,306	1,723	442,221	0.97955	4,251,796	47.61
20	5	0.00437	2.500	0.02162	87,583	1,894	433,180	0.97203	3,809,575	43.50
25	5	0.00701	2.500	0.03445	85,689	2,952	421,064	0.95755	3,376,395	39.40
30	5	0.01041	2.500	0.05072	82,737	4,197	403,192	0.93752	2,955,331	35.72
35	5	0.01556	2.500	0.07487	78,540	5,880	378,000	0.92437	2,552,140	32.49
40	5	0.01590	2.500	0.07645	72,660	5,555	349,414	0.92590	2,174,139	29.92
45	5	0.01484	2.500	0.07155	67,105	4,801	323,524	0.93098	1,824,726	27.19
50	5	0.01371	2.500	0.06630	62,304	4,131	301,194	0.92811	1,501,202	24.09
55	5	0.01621	2.500	0.07788	58,173	4,531	279,540	0.90903	1,200,008	20.63
60	5	0.02220	2.500	0.10516	53,643	5,641	254,112	0.87344	920,468	17.16
65	5	0.03255	2.500	0.15048	48,002	7,224	221,951	0.81572	666,356	13.88
70	5	0.05047	2.500	0.22406	40,778	9,137	181,050	0.72753	444,406	10.90
75	5	0.08044	2.500	0.33486	31,642	10,596	131,719	0.49984	263,356	8.32
80	+	0.15988	6.255	1.00000	21,046	21,046	131,637		131,637	6.25

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04589	0.183	0.04423	100,000	4,423	96,385	0.94745	5,996,706	59.97
1	4	0.00562	1.661	0.02220	95,577	2,122	377,342	0.97952	5,900,321	61.73
5	5	0.00280	2.500	0.01389	93,454	1,298	464,027	0.98576	5,522,979	59.10
10	5	0.00294	2.500	0.01460	92,156	1,345	457,419	0.98572	5,058,952	54.90
15	5	0.00281	2.500	0.01395	90,811	1,267	450,887	0.98345	4,601,534	50.67
20	5	0.00387	2.500	0.01918	89,544	1,717	443,427	0.97191	4,150,646	46.35
25	5	0.00758	2.500	0.03719	87,827	3,266	430,970	0.95692	3,707,220	42.21
30	5	0.01009	2.500	0.04920	84,561	4,160	412,404	0.94179	3,276,250	38.74
35	5	0.01401	2.500	0.06769	80,401	5,442	388,397	0.93682	2,863,846	35.62
40	5	0.01202	2.500	0.05835	74,958	4,374	363,856	0.94625	2,475,449	33.02
45	5	0.01002	2.500	0.04886	70,584	3,448	344,300	0.95215	2,111,593	29.92
50	5	0.00958	2.500	0.04678	67,136	3,141	327,827	0.95022	1,767,293	26.32
55	5	0.01087	2.500	0.05292	63,995	3,387	311,508	0.93530	1,439,466	22.49
60	5	0.01605	2.500	0.07713	60,608	4,675	291,355	0.90138	1,127,957	18.61
65	5	0.02596	2.500	0.12191	55,934	6,819	262,621	0.84441	836,602	14.96
70	5	0.04295	2.500	0.19395	49,115	9,526	221,760	0.75838	573,981	11.69
75	5	0.07080	2.500	0.30077	39,589	11,907	168,178	0.52252	352,221	8.90
80	+	0.15041	6.648	1.00000	27,682	27,682	184,043		184,043	6.65

Singida

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03672	0.145	0.03561	100,000	3,561	96,955	0.96041	6,573,421	65.73
1	4	0.00291	1.752	0.01158	96,439	1,116	383,248	0.98871	6,476,466	67.16
5	5	0.00154	2.500	0.00769	95,323	733	474,783	0.99271	6,093,218	63.92
10	5	0.00138	2.500	0.00688	94,590	651	471,324	0.99117	5,618,435	59.40
15	5	0.00217	2.500	0.01079	93,939	1,014	467,163	0.98762	5,147,111	54.79
20	5	0.00282	2.500	0.01399	92,926	1,300	461,378	0.98424	4,679,948	50.36
25	5	0.00354	2.500	0.01755	91,625	1,608	454,108	0.97980	4,218,570	46.04
30	5	0.00463	2.500	0.02290	90,018	2,062	444,934	0.97325	3,764,462	41.82
35	5	0.00623	2.500	0.03069	87,956	2,700	433,030	0.96780	3,319,528	37.74
40	5	0.00687	2.500	0.03376	85,256	2,878	419,085	0.96492	2,886,498	33.86
45	5	0.00743	2.500	0.03645	82,378	3,003	404,383	0.95954	2,467,413	29.95
50	5	0.00913	2.500	0.04461	79,375	3,541	388,023	0.94931	2,063,030	25.99
55	5	0.01174	2.500	0.05704	75,834	4,326	368,356	0.92916	1,675,006	22.09
60	5	0.01786	2.500	0.08548	71,508	6,112	342,261	0.89319	1,306,650	18.27
65	5	0.02784	2.500	0.13013	65,396	8,510	305,706	0.83782	964,389	14.75
70	5	0.04421	2.500	0.19903	56,886	11,322	256,126	0.75320	658,684	11.58
75	5	0.07238	2.500	0.30645	45,564	13,963	192,913	0.52078	402,558	8.84
80	+	0.15074	6.634	1.00000	31,601	31,601	209,645		209,645	6.63

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.02994	0.138	0.02918	100,000	2,918	97,483	0.96726	6,821,950	68.22
1	4	0.00244	1.686	0.00969	97,082	941	386,148	0.99083	6,724,467	69.27
5	5	0.00126	2.500	0.00627	96,140	603	479,196	0.99339	6,338,319	65.93
10	5	0.00139	2.500	0.00695	95,538	664	476,030	0.99271	5,859,123	61.33
15	5	0.00153	2.500	0.00763	94,874	724	472,562	0.99075	5,383,093	56.74
20	5	0.00219	2.500	0.01088	94,150	1,024	468,191	0.98516	4,910,531	52.16
25	5	0.00380	2.500	0.01884	93,126	1,755	461,243	0.97855	4,442,340	47.70
30	5	0.00488	2.500	0.02410	91,371	2,202	451,350	0.97169	3,981,098	43.57
35	5	0.00663	2.500	0.03262	89,169	2,909	438,571	0.96808	3,529,748	39.59
40	5	0.00634	2.500	0.03119	86,260	2,690	424,572	0.96969	3,091,177	35.84
45	5	0.00597	2.500	0.02940	83,569	2,457	411,703	0.96837	2,666,605	31.91
50	5	0.00690	2.500	0.03391	81,112	2,751	398,683	0.96244	2,254,901	27.80
55	5	0.00844	2.500	0.04133	78,361	3,239	383,710	0.94765	1,856,218	23.69
60	5	0.01319	2.500	0.06384	75,123	4,796	363,624	0.91638	1,472,508	19.60
65	5	0.02211	2.500	0.10474	70,327	7,366	333,219	0.86355	1,108,884	15.77
70	5	0.03761	2.500	0.17188	62,961	10,821	287,751	0.78135	775,665	12.32
75	5	0.06380	2.500	0.27513	52,140	14,345	224,835	0.53919	487,914	9.36
80	+	0.14366	6.961	1.00000	37,794	37,794	263,079		263,079	6.96

Tabora

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05473	0.193	0.05242	100,000	5,242	95,771	0.93882	5,811,060	58.11
1	4	0.00628	1.701	0.02475	94,758	2,346	373,641	0.97698	5,715,289	60.31
5	5	0.00302	2.500	0.01497	92,413	1,384	458,605	0.98570	5,341,648	57.80
10	5	0.00274	2.500	0.01361	91,029	1,239	452,048	0.98460	4,883,043	53.64
15	5	0.00347	2.500	0.01721	89,790	1,545	445,087	0.98128	4,430,995	49.35
20	5	0.00409	2.500	0.02026	88,245	1,788	436,755	0.97500	3,985,907	45.17
25	5	0.00606	2.500	0.02983	86,457	2,579	425,838	0.96408	3,549,152	41.05
30	5	0.00862	2.500	0.04220	83,878	3,540	410,541	0.94875	3,123,315	37.24
35	5	0.01252	2.500	0.06070	80,338	4,877	389,501	0.93809	2,712,774	33.77
40	5	0.01305	2.500	0.06320	75,462	4,769	365,386	0.93766	2,323,273	30.79
45	5	0.01268	2.500	0.06143	70,693	4,343	342,607	0.93858	1,957,887	27.70
50	5	0.01267	2.500	0.06141	66,350	4,075	321,564	0.93251	1,615,281	24.34
55	5	0.01536	2.500	0.07397	62,275	4,607	299,860	0.91225	1,293,717	20.77
60	5	0.02164	2.500	0.10263	57,669	5,919	273,547	0.87542	993,857	17.23
65	5	0.03221	2.500	0.14903	51,750	7,712	239,469	0.81697	720,310	13.92
70	5	0.05020	2.500	0.22299	44,038	9,820	195,638	0.72842	480,841	10.92
75	5	0.08022	2.500	0.33410	34,218	11,432	142,507	0.50033	285,203	8.33
80	+	0.15968	6.263	1.00000	22,785	22,785	142,695		142,695	6.26

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04390	0.177	0.04237	100,000	4,237	96,513	0.94966	6,332,533	63.33
1	4	0.00536	1.664	0.02117	95,763	2,027	378,317	0.98132	6,236,020	65.12
5	5	0.00233	2.500	0.01160	93,736	1,088	465,961	0.98889	5,857,702	62.49
10	5	0.00213	2.500	0.01060	92,648	982	460,787	0.98913	5,391,741	58.20
15	5	0.00224	2.500	0.01115	91,666	1,022	455,776	0.98688	4,930,954	53.79
20	5	0.00305	2.500	0.01511	90,644	1,370	449,797	0.97976	4,475,178	49.37
25	5	0.00516	2.500	0.02546	89,275	2,273	440,691	0.97100	4,025,381	45.09
30	5	0.00664	2.500	0.03264	87,002	2,840	427,910	0.96192	3,584,690	41.20
35	5	0.00893	2.500	0.04369	84,162	3,677	411,617	0.95766	3,156,781	37.51
40	5	0.00836	2.500	0.04092	80,485	3,294	394,189	0.96058	2,745,164	34.11
45	5	0.00771	2.500	0.03784	77,191	2,921	378,652	0.96029	2,350,975	30.46
50	5	0.00851	2.500	0.04166	74,270	3,094	363,614	0.95402	1,972,323	26.56
55	5	0.01036	2.500	0.05049	71,176	3,594	346,896	0.93721	1,608,709	22.60
60	5	0.01574	2.500	0.07574	67,582	5,119	325,115	0.90257	1,261,813	18.67
65	5	0.02573	2.500	0.12089	62,464	7,551	293,441	0.84543	936,698	15.00
70	5	0.04269	2.500	0.19288	54,913	10,592	248,084	0.75943	643,257	11.71
75	5	0.07049	2.500	0.29964	44,321	13,280	188,403	0.52324	395,174	8.92
80	+	0.15012	6.661	1.00000	31,040	31,040	206,770		206,770	6.66

Rukwa

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.06291	0.215	0.05995	100,000	5,995	95,293	0.92980	5,589,046	55.89
1	4	0.00747	1.678	0.02939	94,005	2,762	369,607	0.97267	5,493,753	58.44
5	5	0.00355	2.500	0.01762	91,243	1,607	452,195	0.98339	5,124,146	56.16
10	5	0.00314	2.500	0.01558	89,635	1,396	444,685	0.98265	4,671,951	52.12
15	5	0.00387	2.500	0.01914	88,239	1,689	436,972	0.97922	4,227,266	47.91
20	5	0.00454	2.500	0.02245	86,550	1,943	427,892	0.97228	3,790,294	43.79
25	5	0.00673	2.500	0.03311	84,607	2,801	416,031	0.96010	3,362,402	39.74
30	5	0.00961	2.500	0.04693	81,806	3,839	399,430	0.94299	2,946,372	36.02
35	5	0.01399	2.500	0.06759	77,967	5,270	376,658	0.93114	2,546,942	32.67
40	5	0.01455	2.500	0.07021	72,697	5,104	350,723	0.93093	2,170,284	29.85
45	5	0.01405	2.500	0.06785	67,593	4,586	326,498	0.93281	1,819,561	26.92
50	5	0.01375	2.500	0.06649	63,006	4,189	304,559	0.92720	1,493,063	23.70
55	5	0.01657	2.500	0.07955	58,817	4,679	282,389	0.90641	1,188,504	20.21
60	5	0.02302	2.500	0.10884	54,138	5,892	255,960	0.86881	906,115	16.74
65	5	0.03391	2.500	0.15628	48,246	7,540	222,380	0.80884	650,155	13.48
70	5	0.05262	2.500	0.23249	40,706	9,464	179,871	0.71858	427,775	10.51
75	5	0.08343	2.500	0.34517	31,242	10,784	129,251	0.47862	247,904	7.93
80	+	0.17242	5.800	1.00000	20,458	20,458	118,653		118,653	5.80

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05158	0.199	0.04953	100,000	4,953	96,031	0.94068	6,078,774	60.79
1	4	0.00669	1.652	0.02635	95,047	2,504	374,309	0.97669	5,982,744	62.95
5	5	0.00291	2.500	0.01443	92,543	1,336	459,376	0.98641	5,608,434	60.60
10	5	0.00256	2.500	0.01273	91,207	1,161	453,134	0.98709	5,149,059	56.45
15	5	0.00264	2.500	0.01310	90,046	1,180	447,281	0.98474	4,695,925	52.15
20	5	0.00352	2.500	0.01744	88,866	1,550	440,457	0.97655	4,248,643	47.81
25	5	0.00600	2.500	0.02956	87,316	2,581	430,128	0.96628	3,808,187	43.61
30	5	0.00775	2.500	0.03799	84,735	3,219	415,626	0.95572	3,378,058	39.87
35	5	0.01043	2.500	0.05081	81,516	4,142	397,224	0.95106	2,962,432	36.34
40	5	0.00962	2.500	0.04696	77,374	3,634	377,785	0.95513	2,565,208	33.15
45	5	0.00872	2.500	0.04268	73,740	3,147	360,833	0.95586	2,187,423	29.66
50	5	0.00935	2.500	0.04567	70,593	3,224	344,905	0.94977	1,826,590	25.87
55	5	0.01131	2.500	0.05501	67,369	3,706	327,579	0.93213	1,481,685	21.99
60	5	0.01699	2.500	0.08148	63,663	5,187	305,346	0.89600	1,154,106	18.13
65	5	0.02747	2.500	0.12853	58,476	7,516	273,589	0.83688	848,760	14.51
70	5	0.04514	2.500	0.20282	50,960	10,336	228,960	0.74912	575,171	11.29
75	5	0.07370	2.500	0.31117	40,624	12,641	171,518	0.50458	346,210	8.52
80	+	0.16018	6.243	1.00000	27,983	27,983	174,692		174,692	6.24

Kigoma

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05675	0.199	0.05428	100,000	5,428	95,650	0.93651	6,042,087	60.42
1	4	0.00662	1.695	0.02609	94,572	2,467	372,604	0.97662	5,946,437	62.88
5	5	0.00282	2.500	0.01399	92,105	1,289	457,305	0.98775	5,573,833	60.52
10	5	0.00211	2.500	0.01048	90,817	952	451,704	0.98748	5,116,529	56.34
15	5	0.00294	2.500	0.01458	89,865	1,310	446,050	0.98323	4,664,825	51.91
20	5	0.00383	2.500	0.01899	88,555	1,682	438,571	0.97890	4,218,775	47.64
25	5	0.00470	2.500	0.02325	86,873	2,020	429,318	0.97374	3,780,204	43.51
30	5	0.00596	2.500	0.02935	84,854	2,490	418,044	0.96608	3,350,886	39.49
35	5	0.00788	2.500	0.03864	82,364	3,182	403,863	0.95927	2,932,843	35.61
40	5	0.00877	2.500	0.04291	79,181	3,398	387,412	0.95534	2,528,980	31.94
45	5	0.00952	2.500	0.04649	75,783	3,523	370,109	0.94926	2,141,568	28.26
50	5	0.01135	2.500	0.05521	72,260	3,989	351,329	0.93770	1,771,459	24.51
55	5	0.01447	2.500	0.06982	68,271	4,766	329,440	0.91506	1,420,130	20.80
60	5	0.02132	2.500	0.10119	63,505	6,426	301,459	0.87566	1,090,690	17.17
65	5	0.03246	2.500	0.15010	57,079	8,567	263,975	0.81507	789,231	13.83
70	5	0.05094	2.500	0.22591	48,511	10,959	215,158	0.72501	525,256	10.83
75	5	0.08146	2.500	0.33839	37,552	12,707	155,992	0.49696	310,097	8.26
80	+	0.16122	6.203	1.00000	24,845	24,845	154,105		154,105	6.20

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04501	0.180	0.04340	100,000	4,340	96,442	0.94842	6,382,533	63.83
1	4	0.00552	1.662	0.02178	95,660	2,084	377,768	0.98095	6,286,091	65.71
5	5	0.00232	2.500	0.01155	93,576	1,081	465,177	0.98927	5,908,324	63.14
10	5	0.00199	2.500	0.00989	92,495	915	460,187	0.98968	5,443,147	58.85
15	5	0.00216	2.500	0.01075	91,580	984	455,439	0.98745	4,982,960	54.41
20	5	0.00289	2.500	0.01437	90,596	1,302	449,725	0.98138	4,527,521	49.98
25	5	0.00464	2.500	0.02293	89,294	2,047	441,353	0.97412	4,077,797	45.67
30	5	0.00587	2.500	0.02891	87,247	2,522	429,930	0.96655	3,636,444	41.68
35	5	0.00777	2.500	0.03812	84,725	3,230	415,550	0.96238	3,206,513	37.85
40	5	0.00756	2.500	0.03709	81,495	3,023	399,918	0.96361	2,790,964	34.25
45	5	0.00726	2.500	0.03567	78,472	2,799	385,364	0.96173	2,391,046	30.47
50	5	0.00837	2.500	0.04098	75,673	3,101	370,615	0.95425	2,005,682	26.50
55	5	0.01041	2.500	0.05073	72,573	3,681	353,659	0.93671	1,635,067	22.53
60	5	0.01591	2.500	0.07653	68,891	5,272	331,275	0.90158	1,281,408	18.60
65	5	0.02601	2.500	0.12213	63,619	7,770	298,671	0.84399	950,132	14.93
70	5	0.04312	2.500	0.19460	55,849	10,868	252,076	0.75760	651,462	11.66
75	5	0.07107	2.500	0.30174	44,981	13,573	190,973	0.52183	399,386	8.88
80	+	0.15070	6.636	1.00000	31,408	31,408	208,413		208,413	6.64

Shinyanga

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05294	0.188	0.05076	100,000	5,076	95,880	0.94109	5,702,237	57.02
1	4	0.00586	1.706	0.02311	94,924	2,194	374,663	0.97783	5,606,356	59.06
5	5	0.00308	2.500	0.01527	92,730	1,416	460,111	0.98470	5,231,693	56.42
10	5	0.00309	2.500	0.01533	91,314	1,400	453,073	0.98303	4,771,583	52.25
15	5	0.00376	2.500	0.01865	89,915	1,677	445,383	0.98027	4,318,510	48.03
20	5	0.00421	2.500	0.02084	88,238	1,839	436,593	0.97292	3,873,128	43.89
25	5	0.00680	2.500	0.03344	86,399	2,890	424,771	0.95868	3,436,534	39.78
30	5	0.01015	2.500	0.04948	83,509	4,132	407,218	0.93898	3,011,764	36.06
35	5	0.01519	2.500	0.07316	79,378	5,807	382,371	0.92613	2,604,546	32.81
40	5	0.01550	2.500	0.07463	73,570	5,490	354,127	0.92775	2,222,175	30.20
45	5	0.01444	2.500	0.06968	68,080	4,744	328,542	0.93277	1,868,049	27.44
50	5	0.01335	2.500	0.06459	63,336	4,091	306,455	0.92997	1,539,507	24.31
55	5	0.01577	2.500	0.07584	59,245	4,493	284,994	0.91123	1,233,052	20.81
60	5	0.02167	2.500	0.10277	54,752	5,627	259,695	0.87606	948,058	17.32
65	5	0.03186	2.500	0.14753	49,126	7,247	227,509	0.81907	688,363	14.01
70	5	0.04947	2.500	0.22011	41,878	9,218	186,346	0.73167	460,854	11.00
75	5	0.07909	2.500	0.33017	32,660	10,784	136,343	0.50332	274,508	8.40
80	+	0.15834	6.316	1.00000	21,877	21,877	138,165		138,165	6.32

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04292	0.174	0.04145	100,000	4,145	96,577	0.95105	6,231,197	62.31
1	4	0.00505	1.666	0.01997	95,855	1,914	378,949	0.98185	6,134,620	64.00
5	5	0.00240	2.500	0.01195	93,940	1,123	466,894	0.98801	5,755,671	61.27
10	5	0.00242	2.500	0.01202	92,817	1,116	461,298	0.98799	5,288,777	56.98
15	5	0.00241	2.500	0.01200	91,702	1,100	455,757	0.98579	4,827,479	52.64
20	5	0.00332	2.500	0.01645	90,601	1,491	449,280	0.97675	4,371,721	48.25
25	5	0.00612	2.500	0.03016	89,111	2,687	438,836	0.96528	3,922,441	44.02
30	5	0.00804	2.500	0.03943	86,424	3,407	423,599	0.95358	3,483,606	40.31
35	5	0.01104	2.500	0.05371	83,016	4,459	403,934	0.94909	3,060,006	36.86
40	5	0.00983	2.500	0.04795	78,558	3,767	383,371	0.95496	2,656,072	33.81
45	5	0.00858	2.500	0.04199	74,791	3,140	366,103	0.95749	2,272,701	30.39
50	5	0.00880	2.500	0.04306	71,650	3,085	350,538	0.95335	1,906,599	26.61
55	5	0.01034	2.500	0.05039	68,565	3,455	334,187	0.93773	1,556,061	22.69
60	5	0.01553	2.500	0.07477	65,110	4,868	313,379	0.90390	1,221,874	18.77
65	5	0.02534	2.500	0.11916	60,242	7,178	283,263	0.84745	908,495	15.08
70	5	0.04210	2.500	0.19046	53,064	10,107	240,051	0.76196	625,232	11.78
75	5	0.06971	2.500	0.29681	42,957	12,750	182,910	0.52513	385,180	8.97
80	+	0.14934	6.696	1.00000	30,207	30,207	202,270		202,270	6.70

Kagera

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.07070	0.235	0.06708	100,000	6,708	94,871	0.92049	5,546,176	55.46
1	4	0.00910	1.657	0.03565	93,292	3,326	365,376	0.96790	5,451,305	58.43
5	5	0.00391	2.500	0.01938	89,966	1,743	445,474	0.98268	5,085,929	56.53
10	5	0.00307	2.500	0.01523	88,223	1,343	437,758	0.98288	4,640,455	52.60
15	5	0.00384	2.500	0.01904	86,880	1,654	430,264	0.97876	4,202,697	48.37
20	5	0.00475	2.500	0.02347	85,226	2,001	421,127	0.97243	3,772,433	44.26
25	5	0.00645	2.500	0.03176	83,225	2,643	409,517	0.96287	3,351,306	40.27
30	5	0.00872	2.500	0.04268	80,582	3,439	394,310	0.94923	2,941,789	36.51
35	5	0.01220	2.500	0.05921	77,142	4,568	374,293	0.93888	2,547,479	33.02
40	5	0.01304	2.500	0.06315	72,575	4,583	351,416	0.93658	2,173,186	29.94
45	5	0.01316	2.500	0.06370	67,992	4,331	329,129	0.93474	1,821,771	26.79
50	5	0.01385	2.500	0.06691	63,660	4,260	307,652	0.92591	1,492,641	23.45
55	5	0.01705	2.500	0.08177	59,400	4,857	284,859	0.90311	1,184,989	19.95
60	5	0.02403	2.500	0.11335	54,543	6,183	257,259	0.86311	900,131	16.50
65	5	0.03560	2.500	0.16343	48,360	7,904	222,043	0.80042	642,872	13.29
70	5	0.05526	2.500	0.24278	40,457	9,822	177,729	0.70774	420,828	10.40
75	5	0.08709	2.500	0.35760	30,635	10,955	125,786	0.48258	243,100	7.94
80	+	0.16775	5.961	1.00000	19,680	19,680	117,314		117,314	5.96

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05902	0.219	0.05642	100,000	5,642	95,595	0.93151	5,965,965	59.66
1	4	0.00833	1.641	0.03267	94,358	3,083	370,162	0.97165	5,870,370	62.21
5	5	0.00338	2.500	0.01676	91,276	1,530	452,554	0.98494	5,500,208	60.26
10	5	0.00269	2.500	0.01334	89,746	1,197	445,737	0.98633	5,047,655	56.24
15	5	0.00282	2.500	0.01400	88,549	1,240	439,644	0.98390	4,601,918	51.97
20	5	0.00368	2.500	0.01824	87,309	1,592	432,564	0.97654	4,162,274	47.67
25	5	0.00584	2.500	0.02877	85,717	2,466	422,418	0.96749	3,729,709	43.51
30	5	0.00741	2.500	0.03636	83,250	3,027	408,685	0.95812	3,307,291	39.73
35	5	0.00975	2.500	0.04760	80,223	3,819	391,570	0.95341	2,898,606	36.13
40	5	0.00932	2.500	0.04553	76,405	3,479	373,325	0.95567	2,507,037	32.81
45	5	0.00880	2.500	0.04307	72,926	3,141	356,776	0.95455	2,133,711	29.26
50	5	0.00982	2.500	0.04794	69,785	3,346	340,560	0.94664	1,776,935	25.46
55	5	0.01217	2.500	0.05904	66,439	3,923	322,389	0.92721	1,436,375	21.62
60	5	0.01828	2.500	0.08741	62,516	5,464	298,921	0.88909	1,113,986	17.82
65	5	0.02934	2.500	0.13667	57,052	7,798	265,767	0.82772	815,065	14.29
70	5	0.04781	2.500	0.21353	49,255	10,517	219,979	0.73801	549,298	11.15
75	5	0.07722	2.500	0.32361	38,737	12,536	162,346	0.50702	329,319	8.50
80	+	0.15692	6.373	1.00000	26,201	26,201	166,973		166,973	6.37

Mwanza

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05016	0.181	0.04818	100,000	4,818	96,054	0.94429	6,032,223	60.32
1	4	0.00539	1.714	0.02132	95,182	2,029	376,089	0.98012	5,936,169	62.37
5	5	0.00260	2.500	0.01291	93,153	1,203	462,758	0.98784	5,560,080	59.69
10	5	0.00229	2.500	0.01139	91,950	1,047	457,133	0.98673	5,097,321	55.44
15	5	0.00306	2.500	0.01517	90,903	1,379	451,067	0.98322	4,640,188	51.05
20	5	0.00371	2.500	0.01840	89,524	1,648	443,500	0.97797	4,189,121	46.79
25	5	0.00521	2.500	0.02572	87,876	2,260	433,730	0.96948	3,745,621	42.62
30	5	0.00722	2.500	0.03545	85,616	3,035	420,491	0.95744	3,311,891	38.68
35	5	0.01024	2.500	0.04993	82,581	4,123	402,596	0.94867	2,891,400	35.01
40	5	0.01085	2.500	0.05282	78,458	4,144	381,929	0.94716	2,488,804	31.72
45	5	0.01086	2.500	0.05286	74,314	3,929	361,748	0.94555	2,106,875	28.35
50	5	0.01155	2.500	0.05611	70,385	3,950	342,053	0.93769	1,745,127	24.79
55	5	0.01427	2.500	0.06888	66,436	4,576	320,739	0.91718	1,403,074	21.12
60	5	0.02056	2.500	0.09780	61,860	6,050	294,175	0.88027	1,082,336	17.50
65	5	0.03105	2.500	0.14405	55,810	8,039	258,952	0.82236	788,161	14.12
70	5	0.04866	2.500	0.21690	47,771	10,361	212,950	0.73463	529,209	11.08
75	5	0.07826	2.500	0.32727	37,409	12,243	156,440	0.50534	316,259	8.45
80	+	0.15747	6.350	1.00000	25,166	25,166	159,819		159,819	6.35

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04167	0.171	0.04028	100,000	4,028	96,660	0.95238	6,457,627	64.58
1	4	0.00492	1.667	0.01947	95,972	1,869	379,530	0.98290	6,360,967	66.28
5	5	0.00211	2.500	0.01051	94,103	989	468,045	0.99003	5,981,437	63.56
10	5	0.00190	2.500	0.00944	93,115	879	463,376	0.99019	5,513,392	59.21
15	5	0.00205	2.500	0.01019	92,236	940	458,829	0.98800	5,050,015	54.75
20	5	0.00278	2.500	0.01382	91,296	1,262	453,324	0.98186	4,591,186	50.29
25	5	0.00456	2.500	0.02253	90,034	2,028	445,100	0.97449	4,137,862	45.96
30	5	0.00579	2.500	0.02856	88,006	2,513	433,746	0.96683	3,692,762	41.96
35	5	0.00773	2.500	0.03793	85,493	3,242	419,357	0.96278	3,259,017	38.12
40	5	0.00743	2.500	0.03649	82,250	3,001	403,748	0.96438	2,839,659	34.52
45	5	0.00707	2.500	0.03472	79,249	2,752	389,364	0.96282	2,435,912	30.74
50	5	0.00810	2.500	0.03971	76,497	3,038	374,889	0.95578	2,046,548	26.75
55	5	0.01003	2.500	0.04891	73,459	3,593	358,312	0.93887	1,671,658	22.76
60	5	0.01536	2.500	0.07398	69,866	5,168	336,408	0.90456	1,313,347	18.80
65	5	0.02522	2.500	0.11862	64,697	7,675	304,301	0.84797	976,938	15.10
70	5	0.04197	2.500	0.18993	57,023	10,830	258,038	0.76247	672,638	11.80
75	5	0.06957	2.500	0.29630	46,193	13,687	196,746	0.52546	414,599	8.98
80	+	0.14921	6.702	1.00000	32,506	32,506	217,854		217,854	6.70

Mara

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05760	0.201	0.05507	100,000	5,507	95,599	0.93600	5,893,390	58.93
1	4	0.00648	1.693	0.02555	94,493	2,414	372,403	0.97643	5,797,791	61.36
5	5	0.00300	2.500	0.01487	92,079	1,370	456,970	0.98640	5,425,387	58.92
10	5	0.00248	2.500	0.01230	90,709	1,116	450,757	0.98580	4,968,417	54.77
15	5	0.00325	2.500	0.01612	89,594	1,444	444,358	0.98200	4,517,660	50.42
20	5	0.00402	2.500	0.01992	88,150	1,756	436,359	0.97661	4,073,302	46.21
25	5	0.00546	2.500	0.02693	86,394	2,327	426,152	0.96841	3,636,944	42.10
30	5	0.00741	2.500	0.03638	84,067	3,058	412,690	0.95671	3,210,791	38.19
35	5	0.01035	2.500	0.05046	81,009	4,088	394,825	0.94787	2,798,101	34.54
40	5	0.01108	2.500	0.05389	76,921	4,146	374,242	0.94570	2,403,276	31.24
45	5	0.01125	2.500	0.05472	72,776	3,982	353,923	0.94321	2,029,033	27.88
50	5	0.01215	2.500	0.05898	68,793	4,058	333,823	0.93438	1,675,111	24.35
55	5	0.01508	2.500	0.07267	64,736	4,704	311,919	0.91283	1,341,287	20.72
60	5	0.02168	2.500	0.10281	60,032	6,172	284,728	0.87456	1,029,368	17.15
65	5	0.03259	2.500	0.15066	53,860	8,114	249,013	0.81478	744,640	13.83
70	5	0.05094	2.500	0.22591	45,745	10,334	202,891	0.72521	495,627	10.83
75	5	0.08133	2.500	0.33794	35,411	11,967	147,138	0.49737	292,736	8.27
80	+	0.16102	6.210	1.00000	23,444	23,444	145,598		145,598	6.21

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04797	0.189	0.04617	100,000	4,617	96,253	0.94539	6,282,100	62.82
1	4	0.00577	1.658	0.02278	95,383	2,173	376,443	0.97978	6,185,847	64.85
5	5	0.00252	2.500	0.01250	93,210	1,165	463,139	0.98832	5,809,403	62.33
10	5	0.00218	2.500	0.01086	92,045	999	457,728	0.98882	5,346,265	58.08
15	5	0.00231	2.500	0.01150	91,046	1,047	452,613	0.98656	4,888,536	53.69
20	5	0.00311	2.500	0.01541	89,999	1,387	446,529	0.97983	4,435,923	49.29
25	5	0.00507	2.500	0.02501	88,612	2,216	437,521	0.97164	3,989,394	45.02
30	5	0.00646	2.500	0.03180	86,396	2,747	425,113	0.96313	3,551,873	41.11
35	5	0.00860	2.500	0.04211	83,649	3,522	409,440	0.95881	3,126,761	37.38
40	5	0.00821	2.500	0.04023	80,127	3,223	392,576	0.96092	2,717,321	33.91
45	5	0.00773	2.500	0.03789	76,904	2,914	377,233	0.95983	2,324,745	30.23
50	5	0.00869	2.500	0.04253	73,989	3,147	362,081	0.95274	1,947,512	26.32
55	5	0.01072	2.500	0.05221	70,843	3,698	344,968	0.93510	1,585,431	22.38
60	5	0.01630	2.500	0.07829	67,144	5,257	322,580	0.89958	1,240,463	18.47
65	5	0.02654	2.500	0.12443	61,888	7,701	290,187	0.84144	917,883	14.83
70	5	0.04384	2.500	0.19754	54,187	10,704	244,175	0.75457	627,696	11.58
75	5	0.07201	2.500	0.30510	43,483	13,267	184,248	0.51959	383,520	8.82
80	+	0.15163	6.595	1.00000	30,216	30,216	199,272		199,272	6.59

Manyara

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03891	0.151	0.03766	100,000	3,766	96,802	0.95765	6,682,156	66.82
1	4	0.00338	1.746	0.01343	96,234	1,293	382,021	0.98764	6,585,355	68.43
5	5	0.00152	2.500	0.00759	94,941	720	472,904	0.99345	6,203,334	65.34
10	5	0.00110	2.500	0.00551	94,221	519	469,806	0.99243	5,730,429	60.82
15	5	0.00194	2.500	0.00964	93,702	903	466,250	0.98839	5,260,623	56.14
20	5	0.00274	2.500	0.01360	92,798	1,262	460,836	0.98595	4,794,373	51.66
25	5	0.00292	2.500	0.01451	91,536	1,329	454,359	0.98452	4,333,537	47.34
30	5	0.00332	2.500	0.01647	90,208	1,486	447,324	0.98206	3,879,178	43.00
35	5	0.00392	2.500	0.01943	88,722	1,724	439,299	0.97855	3,431,854	38.68
40	5	0.00476	2.500	0.02351	86,998	2,045	429,876	0.97372	2,992,555	34.40
45	5	0.00591	2.500	0.02912	84,953	2,474	418,579	0.96454	2,562,679	30.17
50	5	0.00858	2.500	0.04200	82,479	3,464	403,736	0.95146	2,144,100	26.00
55	5	0.01139	2.500	0.05538	79,015	4,376	384,137	0.92998	1,740,365	22.03
60	5	0.01787	2.500	0.08552	74,639	6,383	357,238	0.89240	1,356,228	18.17
65	5	0.02821	2.500	0.13174	68,256	8,992	318,799	0.83556	998,990	14.64
70	5	0.04497	2.500	0.20211	59,264	11,978	266,374	0.74970	680,191	11.48
75	5	0.07357	2.500	0.31070	47,286	14,692	199,700	0.51742	413,817	8.75
80	+	0.15223	6.569	1.00000	32,594	32,594	214,116		214,116	6.57

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.02962	0.137	0.02888	100,000	2,888	97,506	0.96755	6,946,872	69.47
1	4	0.00244	1.686	0.00969	97,112	941	386,268	0.99119	6,849,366	70.53
5	5	0.00112	2.500	0.00557	96,170	536	479,513	0.99438	6,463,098	67.20
10	5	0.00114	2.500	0.00567	95,635	542	476,818	0.99378	5,983,585	62.57
15	5	0.00136	2.500	0.00677	95,092	644	473,851	0.99185	5,506,767	57.91
20	5	0.00192	2.500	0.00953	94,448	900	469,989	0.98783	5,032,916	53.29
25	5	0.00299	2.500	0.01484	93,548	1,388	464,267	0.98338	4,562,927	48.78
30	5	0.00372	2.500	0.01842	92,159	1,698	456,552	0.97871	4,098,659	44.47
35	5	0.00490	2.500	0.02421	90,461	2,190	446,831	0.97530	3,642,108	40.26
40	5	0.00510	2.500	0.02520	88,271	2,224	435,793	0.97455	3,195,277	36.20
45	5	0.00521	2.500	0.02571	86,046	2,212	424,702	0.97104	2,759,484	32.07
50	5	0.00657	2.500	0.03230	83,834	2,708	412,403	0.96354	2,334,781	27.85
55	5	0.00832	2.500	0.04075	81,127	3,306	397,369	0.94804	1,922,378	23.70
60	5	0.01315	2.500	0.06365	77,821	4,953	376,720	0.91641	1,525,010	19.60
65	5	0.02214	2.500	0.10487	72,867	7,642	345,232	0.86338	1,148,290	15.76
70	5	0.03766	2.500	0.17208	65,225	11,224	298,066	0.78109	803,058	12.31
75	5	0.06389	2.500	0.27546	54,001	14,875	232,817	0.53897	504,992	9.35
80	+	0.14375	6.956	1.00000	39,126	39,126	272,175		272,175	6.96

Njombe

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.06276	0.214	0.05981	100,000	5,981	95,301	0.92955	4,927,689	49.28
1	4	0.00770	1.679	0.03026	94,019	2,845	369,471	0.96986	4,832,388	51.40
5	5	0.00453	2.500	0.02240	91,174	2,042	450,764	0.97590	4,462,917	48.95
10	5	0.00524	2.500	0.02585	89,132	2,304	439,899	0.97296	4,012,153	45.01
15	5	0.00573	2.500	0.02826	86,828	2,453	428,006	0.97195	3,572,254	41.14
20	5	0.00565	2.500	0.02784	84,375	2,349	416,000	0.95922	3,144,248	37.27
25	5	0.01112	2.500	0.05409	82,025	4,437	399,035	0.93038	2,728,248	33.26
30	5	0.01798	2.500	0.08603	77,589	6,675	371,255	0.89188	2,329,213	30.02
35	5	0.02833	2.500	0.13228	70,913	9,381	331,115	0.86856	1,957,958	27.61
40	5	0.02792	2.500	0.13047	61,533	8,028	287,592	0.87737	1,626,843	26.44
45	5	0.02409	2.500	0.11362	53,504	6,079	252,324	0.89859	1,339,251	25.03
50	5	0.01833	2.500	0.08765	47,425	4,157	226,735	0.90854	1,086,927	22.92
55	5	0.02009	2.500	0.09564	43,269	4,138	205,998	0.89388	860,192	19.88
60	5	0.02501	2.500	0.11771	39,130	4,606	184,137	0.86282	654,194	16.72
65	5	0.03461	2.500	0.15925	34,524	5,498	158,877	0.80751	470,058	13.62
70	5	0.05250	2.500	0.23203	29,026	6,735	128,295	0.72017	311,181	10.72
75	5	0.08253	2.500	0.34208	22,291	7,625	92,394	0.49480	182,886	8.20
80	+	0.16207	6.170	1.00000	14,666	14,666	90,492		90,492	6.17

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05105	0.197	0.04904	100,000	4,904	96,062	0.94099	5,643,765	56.44
1	4	0.00677	1.653	0.02665	95,096	2,534	374,435	0.97517	5,547,703	58.34
5	5	0.00348	2.500	0.01726	92,561	1,597	458,813	0.98201	5,173,268	55.89
10	5	0.00378	2.500	0.01873	90,964	1,704	450,560	0.98208	4,714,455	51.83
15	5	0.00345	2.500	0.01710	89,260	1,526	442,484	0.97972	4,263,895	47.77
20	5	0.00476	2.500	0.02352	87,734	2,063	433,510	0.96439	3,821,411	43.56
25	5	0.00984	2.500	0.04800	85,670	4,112	418,072	0.94411	3,387,901	39.55
30	5	0.01326	2.500	0.06419	81,558	5,235	394,704	0.92387	2,969,829	36.41
35	5	0.01860	2.500	0.08888	76,323	6,784	364,657	0.91806	2,575,125	33.74
40	5	0.01544	2.500	0.07432	69,539	5,168	334,777	0.93273	2,210,468	31.79
45	5	0.01230	2.500	0.05965	64,371	3,840	312,257	0.94363	1,875,692	29.14
50	5	0.01087	2.500	0.05289	60,532	3,202	294,654	0.94499	1,563,435	25.83
55	5	0.01179	2.500	0.05724	57,330	3,282	278,446	0.93100	1,268,781	22.13
60	5	0.01699	2.500	0.08148	54,048	4,404	259,232	0.89667	990,335	18.32
65	5	0.02715	2.500	0.12712	49,645	6,311	232,446	0.83868	731,103	14.73
70	5	0.04457	2.500	0.20051	43,334	8,689	194,947	0.75163	498,657	11.51
75	5	0.07288	2.500	0.30823	34,645	10,679	146,528	0.51754	303,710	8.77
80	+	0.15247	6.559	1.00000	23,966	23,966	157,182		157,182	6.56

Katavi

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.06759	0.227	0.06423	100,000	6,423	95,036	0.92388	5,386,319	53.86
1	4	0.00864	1.665	0.03388	93,577	3,171	366,905	0.96880	5,291,283	56.54
5	5	0.00402	2.500	0.01991	90,406	1,800	447,530	0.98111	4,924,378	54.47
10	5	0.00360	2.500	0.01784	88,606	1,581	439,077	0.98044	4,476,849	50.53
15	5	0.00431	2.500	0.02132	87,025	1,855	430,487	0.97716	4,037,771	46.40
20	5	0.00494	2.500	0.02440	85,170	2,078	420,655	0.96919	3,607,284	42.35
25	5	0.00762	2.500	0.03738	83,092	3,106	407,695	0.95455	3,186,629	38.35
30	5	0.01106	2.500	0.05383	79,986	4,306	389,165	0.93424	2,778,934	34.74
35	5	0.01631	2.500	0.07836	75,680	5,931	363,574	0.92054	2,389,768	31.58
40	5	0.01681	2.500	0.08065	69,750	5,625	334,685	0.92135	2,026,194	29.05
45	5	0.01590	2.500	0.07647	64,124	4,904	308,363	0.92571	1,691,509	26.38
50	5	0.01492	2.500	0.07192	59,221	4,259	285,455	0.92183	1,383,147	23.36
55	5	0.01774	2.500	0.08491	54,962	4,667	263,141	0.90124	1,097,692	19.97
60	5	0.02415	2.500	0.11389	50,295	5,728	237,153	0.86369	834,551	16.59
65	5	0.03517	2.500	0.16162	44,567	7,203	204,827	0.80306	597,398	13.40
70	5	0.05431	2.500	0.23907	37,364	8,933	164,488	0.71192	392,571	10.51
75	5	0.08558	2.500	0.35249	28,431	10,022	117,102	0.48658	228,082	8.02
80	+	0.16588	6.028	1.00000	18,409	18,409	110,980		110,980	6.03

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05428	0.206	0.05204	100,000	5,204	95,869	0.93702	6,088,900	60.89
1	4	0.00747	1.648	0.02936	94,796	2,783	372,639	0.97457	5,993,031	63.22
5	5	0.00304	2.500	0.01508	92,013	1,387	456,596	0.98631	5,620,392	61.08
10	5	0.00247	2.500	0.01227	90,625	1,112	450,346	0.98736	5,163,796	56.98
15	5	0.00262	2.500	0.01300	89,513	1,164	444,656	0.98496	4,713,450	52.66
20	5	0.00345	2.500	0.01710	88,349	1,510	437,970	0.97790	4,268,794	48.32
25	5	0.00551	2.500	0.02719	86,839	2,361	428,291	0.96929	3,830,824	44.11
30	5	0.00699	2.500	0.03433	84,478	2,900	415,138	0.96036	3,402,532	40.28
35	5	0.00923	2.500	0.04513	81,578	3,682	398,684	0.95579	2,987,394	36.62
40	5	0.00884	2.500	0.04325	77,896	3,369	381,056	0.95787	2,588,711	33.23
45	5	0.00836	2.500	0.04095	74,527	3,052	365,002	0.95666	2,207,655	29.62
50	5	0.00938	2.500	0.04582	71,474	3,275	349,185	0.94897	1,842,652	25.78
55	5	0.01163	2.500	0.05648	68,200	3,852	331,367	0.93018	1,493,467	21.90
60	5	0.01753	2.500	0.08396	64,347	5,403	308,230	0.89303	1,162,100	18.06
65	5	0.02828	2.500	0.13208	58,945	7,786	275,259	0.83283	853,870	14.49
70	5	0.04633	2.500	0.20759	51,159	10,620	229,244	0.74416	578,611	11.31
75	5	0.07527	2.500	0.31674	40,539	12,840	170,594	0.51171	349,367	8.62
80	+	0.15494	6.454	1.00000	27,699	27,699	178,773		178,773	6.45

Simiyu

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04331	0.163	0.04179	100,000	4,179	96,500	0.95294	6,319,606	63.20
1	4	0.00384	1.733	0.01525	95,821	1,461	379,971	0.98524	6,223,105	64.95
5	5	0.00201	2.500	0.01001	94,360	944	469,438	0.99049	5,843,135	61.92
10	5	0.00181	2.500	0.00901	93,415	842	464,973	0.98911	5,373,697	57.52
15	5	0.00257	2.500	0.01278	92,574	1,184	459,909	0.98562	4,908,724	53.03
20	5	0.00323	2.500	0.01600	91,390	1,463	453,294	0.98137	4,448,815	48.68
25	5	0.00431	2.500	0.02130	89,927	1,916	444,848	0.97501	3,995,521	44.43
30	5	0.00584	2.500	0.02876	88,012	2,531	433,731	0.96584	3,550,673	40.34
35	5	0.00810	2.500	0.03972	85,481	3,395	418,916	0.95884	3,116,941	36.46
40	5	0.00872	2.500	0.04267	82,086	3,502	401,673	0.95664	2,698,025	32.87
45	5	0.00901	2.500	0.04408	78,583	3,464	384,258	0.95311	2,296,353	29.22
50	5	0.01022	2.500	0.04983	75,120	3,743	366,241	0.94414	1,912,095	25.45
55	5	0.01284	2.500	0.06220	71,377	4,440	345,785	0.92394	1,545,853	21.66
60	5	0.01903	2.500	0.09084	66,937	6,080	319,485	0.88759	1,200,068	17.93
65	5	0.02922	2.500	0.13614	60,857	8,285	283,572	0.83112	880,583	14.47
70	5	0.04613	2.500	0.20678	52,572	10,871	235,682	0.74511	597,011	11.36
75	5	0.07493	2.500	0.31554	41,701	13,158	175,609	0.51399	361,328	8.66
80	+	0.15369	6.507	1.00000	28,543	28,543	185,719		185,719	6.51

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03822	0.161	0.03703	100,000	3,703	96,894	0.95715	6,598,343	65.98
1	4	0.00395	1.673	0.01564	96,297	1,506	381,682	0.98590	6,501,450	67.51
5	5	0.00180	2.500	0.00896	94,791	850	471,829	0.99136	6,119,767	64.56
10	5	0.00167	2.500	0.00832	93,941	781	467,751	0.99125	5,647,939	60.12
15	5	0.00185	2.500	0.00919	93,159	856	463,657	0.98913	5,180,188	55.61
20	5	0.00253	2.500	0.01258	92,303	1,161	458,615	0.98347	4,716,531	51.10
25	5	0.00415	2.500	0.02054	91,143	1,872	451,033	0.97673	4,257,916	46.72
30	5	0.00528	2.500	0.02606	89,271	2,326	440,538	0.96974	3,806,882	42.64
35	5	0.00704	2.500	0.03458	86,945	3,006	427,207	0.96588	3,366,344	38.72
40	5	0.00684	2.500	0.03364	83,938	2,824	412,631	0.96702	2,939,137	35.02
45	5	0.00656	2.500	0.03229	81,114	2,619	399,023	0.96516	2,526,506	31.15
50	5	0.00764	2.500	0.03748	78,495	2,942	385,120	0.95823	2,127,483	27.10
55	5	0.00946	2.500	0.04623	75,553	3,493	369,034	0.94188	1,742,363	23.06
60	5	0.01463	2.500	0.07058	72,060	5,086	347,587	0.90847	1,373,329	19.06
65	5	0.02420	2.500	0.11408	66,974	7,640	315,771	0.85308	1,025,743	15.32
70	5	0.04053	2.500	0.18399	59,334	10,917	269,378	0.76867	709,971	11.97
75	5	0.06766	2.500	0.28935	48,417	14,009	207,062	0.53004	440,593	9.10
80	+	0.14734	6.787	1.00000	34,408	34,408	233,531		233,531	6.79

Geita

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04577	0.169	0.04409	100,000	4,409	96,337	0.94960	6,161,262	61.61
1	4	0.00453	1.726	0.01794	95,591	1,715	378,464	0.98295	6,064,924	63.45
5	5	0.00229	2.500	0.01139	93,876	1,069	466,708	0.98909	5,686,460	60.57
10	5	0.00210	2.500	0.01043	92,807	968	461,616	0.98771	5,219,753	56.24
15	5	0.00286	2.500	0.01418	91,839	1,302	455,941	0.98431	4,758,137	51.81
20	5	0.00348	2.500	0.01723	90,537	1,560	448,785	0.97940	4,302,197	47.52
25	5	0.00486	2.500	0.02402	88,977	2,138	439,542	0.97139	3,853,411	43.31
30	5	0.00677	2.500	0.03331	86,840	2,892	426,967	0.95998	3,413,869	39.31
35	5	0.00962	2.500	0.04696	83,947	3,942	409,881	0.95172	2,986,903	35.58
40	5	0.01019	2.500	0.04967	80,005	3,974	390,091	0.95025	2,577,022	32.21
45	5	0.01022	2.500	0.04983	76,031	3,789	370,684	0.94846	2,186,931	28.76
50	5	0.01096	2.500	0.05334	72,243	3,853	351,580	0.94068	1,816,247	25.14
55	5	0.01357	2.500	0.06564	68,389	4,489	330,724	0.92063	1,464,667	21.42
60	5	0.01974	2.500	0.09407	63,900	6,011	304,474	0.88435	1,133,943	17.75
65	5	0.02999	2.500	0.13947	57,889	8,074	269,261	0.82752	829,469	14.33
70	5	0.04714	2.500	0.21083	49,815	10,503	222,819	0.74097	560,208	11.25
75	5	0.07622	2.500	0.32011	39,312	12,584	165,102	0.51065	337,390	8.58
80	+	0.15514	6.446	1.00000	26,728	26,728	172,288		172,288	6.45

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03898	0.163	0.03775	100,000	3,775	96,842	0.95578	6,475,337	64.75
1	4	0.00434	1.672	0.01719	96,225	1,654	381,050	0.98458	6,378,496	66.29
5	5	0.00198	2.500	0.00986	94,571	933	470,524	0.99027	5,997,446	63.42
10	5	0.00193	2.500	0.00959	93,639	898	465,948	0.99016	5,526,922	59.02
15	5	0.00203	2.500	0.01009	92,741	936	461,363	0.98803	5,060,974	54.57
20	5	0.00279	2.500	0.01387	91,805	1,273	455,840	0.98112	4,599,610	50.10
25	5	0.00485	2.500	0.02397	90,531	2,170	447,232	0.97266	4,143,770	45.77
30	5	0.00626	2.500	0.03080	88,361	2,722	435,003	0.96395	3,696,538	41.83
35	5	0.00847	2.500	0.04146	85,640	3,551	419,323	0.95987	3,261,535	38.08
40	5	0.00790	2.500	0.03874	82,089	3,180	402,497	0.96279	2,842,212	34.62
45	5	0.00725	2.500	0.03562	78,910	2,810	387,521	0.96259	2,439,715	30.92
50	5	0.00801	2.500	0.03928	76,099	2,989	373,023	0.95673	2,052,194	26.97
55	5	0.00972	2.500	0.04743	73,110	3,468	356,882	0.94075	1,679,171	22.97
60	5	0.01486	2.500	0.07165	69,643	4,990	335,738	0.90734	1,322,289	18.99
65	5	0.02447	2.500	0.11528	64,653	7,453	304,630	0.85175	986,551	15.26
70	5	0.04090	2.500	0.18552	57,199	10,612	259,468	0.76707	681,921	11.92
75	5	0.06815	2.500	0.29115	46,588	13,564	199,029	0.52887	422,453	9.07
80	+	0.14781	6.766	1.00000	33,024	33,024	223,425		223,425	6.77

Kaskazini Unguja

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04912	0.178	0.04721	100,000	4,721	96,120	0.94554	6,444,669	64.45
1	4	0.00519	1.717	0.02053	95,279	1,956	376,650	0.98177	6,348,549	66.63
5	5	0.00212	2.500	0.01056	93,323	986	464,151	0.99128	5,971,899	63.99
10	5	0.00138	2.500	0.00685	92,337	633	460,104	0.99103	5,507,748	59.65
15	5	0.00223	2.500	0.01110	91,704	1,018	455,977	0.98651	5,047,644	55.04
20	5	0.00321	2.500	0.01590	90,686	1,442	449,828	0.98388	4,591,667	50.63
25	5	0.00329	2.500	0.01634	89,245	1,458	442,578	0.98290	4,141,839	46.41
30	5	0.00361	2.500	0.01788	87,787	1,569	435,010	0.98095	3,699,261	42.14
35	5	0.00409	2.500	0.02024	86,217	1,745	426,723	0.97732	3,264,252	37.86
40	5	0.00510	2.500	0.02516	84,472	2,125	417,047	0.97146	2,837,528	33.59
45	5	0.00651	2.500	0.03201	82,347	2,636	405,143	0.96092	2,420,482	29.39
50	5	0.00950	2.500	0.04639	79,710	3,698	389,308	0.94637	2,015,339	25.28
55	5	0.01263	2.500	0.06123	76,013	4,654	368,428	0.92336	1,626,031	21.39
60	5	0.01952	2.500	0.09305	71,358	6,640	340,192	0.88391	1,257,604	17.62
65	5	0.03045	2.500	0.14148	64,718	9,157	300,701	0.82450	917,411	14.18
70	5	0.04821	2.500	0.21513	55,562	11,953	247,926	0.73586	616,711	11.10
75	5	0.07806	2.500	0.32658	43,609	14,242	182,439	0.50530	368,784	8.46
80	+	0.15759	6.345	1.00000	29,367	29,367	186,346		186,346	6.35

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.03811	0.161	0.03693	100,000	3,693	96,901	0.95728	6,881,648	68.82
1	4	0.00393	1.673	0.01558	96,307	1,500	381,738	0.98668	6,784,747	70.45
5	5	0.00150	2.500	0.00748	94,807	709	472,263	0.99361	6,403,008	67.54
10	5	0.00106	2.500	0.00529	94,098	498	469,245	0.99379	5,930,746	63.03
15	5	0.00143	2.500	0.00713	93,600	668	466,333	0.99170	5,461,500	58.35
20	5	0.00190	2.500	0.00947	92,933	881	462,463	0.98973	4,995,168	53.75
25	5	0.00223	2.500	0.01106	92,052	1,019	457,715	0.98824	4,532,705	49.24
30	5	0.00251	2.500	0.01246	91,034	1,134	452,333	0.98647	4,074,990	44.76
35	5	0.00294	2.500	0.01460	89,899	1,313	446,215	0.98301	3,622,656	40.30
40	5	0.00392	2.500	0.01941	88,587	1,720	438,634	0.97853	3,176,441	35.86
45	5	0.00477	2.500	0.02356	86,867	2,047	429,217	0.97141	2,737,808	31.52
50	5	0.00686	2.500	0.03374	84,820	2,862	416,946	0.96072	2,308,591	27.22
55	5	0.00921	2.500	0.04502	81,958	3,690	400,567	0.94261	1,891,645	23.08
60	5	0.01458	2.500	0.07034	78,269	5,505	377,581	0.90853	1,491,078	19.05
65	5	0.02422	2.500	0.11420	72,764	8,310	343,043	0.85296	1,113,497	15.30
70	5	0.04056	2.500	0.18412	64,454	11,867	292,601	0.76856	770,454	11.95
75	5	0.06768	2.500	0.28944	52,587	15,220	224,882	0.52939	477,853	9.09
80	+	0.14771	6.770	1.00000	37,366	37,366	252,970		252,970	6.77

Kusini Unguja

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.06662	0.225	0.06335	100,000	6,335	95,088	0.92485	6,005,963	60.06
1	4	0.00855	1.668	0.03353	93,665	3,140	367,337	0.97093	5,910,875	63.11
5	5	0.00324	2.500	0.01609	90,525	1,457	448,982	0.98703	5,543,538	61.24
10	5	0.00197	2.500	0.00980	89,068	873	443,158	0.98804	5,094,556	57.20
15	5	0.00285	2.500	0.01415	88,195	1,248	437,856	0.98288	4,651,398	52.74
20	5	0.00406	2.500	0.02012	86,947	1,749	430,362	0.97954	4,213,543	48.46
25	5	0.00421	2.500	0.02082	85,198	1,774	421,554	0.97825	3,783,181	44.40
30	5	0.00459	2.500	0.02271	83,424	1,894	412,385	0.97576	3,361,626	40.30
35	5	0.00523	2.500	0.02582	81,530	2,105	402,387	0.97121	2,949,242	36.17
40	5	0.00647	2.500	0.03185	79,425	2,529	390,801	0.96425	2,546,855	32.07
45	5	0.00812	2.500	0.03978	76,896	3,059	376,831	0.95272	2,156,054	28.04
50	5	0.01133	2.500	0.05509	73,837	4,067	359,015	0.93668	1,779,223	24.10
55	5	0.01494	2.500	0.07203	69,769	5,026	336,282	0.91143	1,420,209	20.36
60	5	0.02247	2.500	0.10638	64,744	6,888	306,499	0.86907	1,083,927	16.74
65	5	0.03440	2.500	0.15840	57,856	9,164	266,369	0.80526	777,428	13.44
70	5	0.05401	2.500	0.23793	48,692	11,585	214,495	0.71194	511,058	10.50
75	5	0.08598	2.500	0.35385	37,106	13,130	152,707	0.48508	296,563	7.99
80	+	0.16667	6.000	1.00000	23,976	23,976	143,856		143,856	6.00

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05218	0.200	0.05009	100,000	5,009	95,994	0.93942	6,451,060	64.51
1	4	0.00711	1.651	0.02799	94,991	2,659	373,718	0.97662	6,355,066	66.90
5	5	0.00255	2.500	0.01269	92,332	1,172	458,730	0.98955	5,981,348	64.78
10	5	0.00164	2.500	0.00818	91,160	746	453,936	0.99084	5,522,618	60.58
15	5	0.00204	2.500	0.01015	90,414	917	449,778	0.98850	5,068,682	56.06
20	5	0.00259	2.500	0.01288	89,497	1,153	444,603	0.98604	4,618,904	51.61
25	5	0.00303	2.500	0.01506	88,344	1,330	438,396	0.98389	4,174,301	47.25
30	5	0.00346	2.500	0.01717	87,014	1,494	431,335	0.98141	3,735,905	42.93
35	5	0.00405	2.500	0.02004	85,520	1,714	423,314	0.97743	3,304,571	38.64
40	5	0.00510	2.500	0.02516	83,806	2,108	413,759	0.97268	2,881,257	34.38
45	5	0.00600	2.500	0.02954	81,698	2,413	402,455	0.96509	2,467,498	30.20
50	5	0.00826	2.500	0.04045	79,284	3,207	388,404	0.95298	2,065,043	26.05
55	5	0.01107	2.500	0.05388	76,077	4,099	370,139	0.93234	1,676,639	22.04
60	5	0.01715	2.500	0.08224	71,979	5,919	345,095	0.89474	1,306,499	18.15
65	5	0.02789	2.500	0.13034	66,059	8,610	308,771	0.83477	961,405	14.55
70	5	0.04577	2.500	0.20534	57,449	11,797	257,754	0.74637	652,634	11.36
75	5	0.07461	2.500	0.31439	45,652	14,353	192,380	0.51281	394,880	8.65
80	+	0.15457	6.470	1.00000	31,300	31,300	202,500		202,500	6.47

Mjini Magharibi

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.05602	0.197	0.05360	100,000	5,360	95,694	0.93714	6,259,090	62.59
1	4	0.00662	1.697	0.02607	94,640	2,467	372,878	0.97724	6,163,397	65.12
5	5	0.00258	2.500	0.01282	92,173	1,182	457,909	0.98955	5,790,519	62.82
10	5	0.00162	2.500	0.00806	90,991	733	453,121	0.98980	5,332,610	58.61
15	5	0.00249	2.500	0.01236	90,258	1,116	448,499	0.98502	4,879,489	54.06
20	5	0.00356	2.500	0.01764	89,142	1,572	441,779	0.98209	4,430,989	49.71
25	5	0.00367	2.500	0.01819	87,570	1,592	433,867	0.98098	3,989,210	45.55
30	5	0.00401	2.500	0.01987	85,977	1,708	425,615	0.97881	3,555,343	41.35
35	5	0.00456	2.500	0.02255	84,269	1,900	416,595	0.97480	3,129,727	37.14
40	5	0.00566	2.500	0.02793	82,369	2,300	406,095	0.96847	2,713,132	32.94
45	5	0.00717	2.500	0.03524	80,069	2,821	393,291	0.95751	2,307,038	28.81
50	5	0.01026	2.500	0.05001	77,247	3,863	376,579	0.94233	1,913,747	24.77
55	5	0.01359	2.500	0.06574	73,384	4,824	354,860	0.91838	1,537,168	20.95
60	5	0.02075	2.500	0.09863	68,560	6,762	325,895	0.87769	1,182,308	17.24
65	5	0.03210	2.500	0.14857	61,798	9,182	286,036	0.81642	856,413	13.86
70	5	0.05063	2.500	0.22470	52,616	11,823	233,525	0.72580	570,377	10.84
75	5	0.08136	2.500	0.33804	40,794	13,790	169,493	0.49683	336,852	8.26
80	+	0.16135	6.198	1.00000	27,004	27,004	167,359		167,359	6.20

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04179	0.171	0.04039	100,000	4,039	96,652	0.95213	6,747,939	67.48
1	4	0.00501	1.667	0.01979	95,961	1,900	379,412	0.98344	6,651,286	69.31
5	5	0.00182	2.500	0.00903	94,061	850	468,182	0.99240	6,271,874	66.68
10	5	0.00123	2.500	0.00615	93,212	574	464,624	0.99291	5,803,692	62.26
15	5	0.00161	2.500	0.00804	92,638	744	461,329	0.99074	5,339,068	57.63
20	5	0.00211	2.500	0.01050	91,894	965	457,056	0.98862	4,877,740	53.08
25	5	0.00247	2.500	0.01227	90,929	1,115	451,856	0.98693	4,420,684	48.62
30	5	0.00280	2.500	0.01388	89,813	1,247	445,951	0.98495	3,968,828	44.19
35	5	0.00328	2.500	0.01624	88,567	1,439	439,238	0.98132	3,522,877	39.78
40	5	0.00428	2.500	0.02115	87,128	1,843	431,034	0.97675	3,083,639	35.39
45	5	0.00514	2.500	0.02538	85,285	2,165	421,014	0.96948	2,652,605	31.10
50	5	0.00729	2.500	0.03579	83,120	2,975	408,165	0.95835	2,231,590	26.85
55	5	0.00978	2.500	0.04773	80,145	3,825	391,164	0.93946	1,823,425	22.75
60	5	0.01537	2.500	0.07399	76,320	5,647	367,483	0.90429	1,432,262	18.77
65	5	0.02534	2.500	0.11917	70,673	8,422	332,310	0.84735	1,064,778	15.07
70	5	0.04215	2.500	0.19067	62,251	11,869	281,582	0.76170	732,468	11.77
75	5	0.06980	2.500	0.29716	50,382	14,971	214,480	0.52432	450,887	8.95
80	+	0.14979	6.676	1.00000	35,410	35,410	236,407		236,407	6.68

Kaskazini Pemba

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04776	0.175	0.04595	100,000	4,595	96,207	0.94723	6,483,202	64.83
1	4	0.00490	1.721	0.01938	95,405	1,849	377,407	0.98269	6,386,995	66.95
5	5	0.00203	2.500	0.01011	93,556	946	465,418	0.99163	6,009,588	64.23
10	5	0.00133	2.500	0.00661	92,611	612	461,523	0.99128	5,544,171	59.87
15	5	0.00218	2.500	0.01085	91,999	998	457,498	0.98682	5,082,648	55.25
20	5	0.00313	2.500	0.01555	91,001	1,415	451,467	0.98425	4,625,150	50.83
25	5	0.00322	2.500	0.01596	89,586	1,430	444,355	0.98329	4,173,683	46.59
30	5	0.00353	2.500	0.01747	88,156	1,540	436,929	0.98139	3,729,327	42.30
35	5	0.00399	2.500	0.01978	86,616	1,713	428,797	0.97784	3,292,398	38.01
40	5	0.00498	2.500	0.02460	84,903	2,088	419,293	0.97206	2,863,602	33.73
45	5	0.00637	2.500	0.03136	82,814	2,597	407,580	0.96161	2,444,308	29.52
50	5	0.00934	2.500	0.04565	80,218	3,662	391,934	0.94719	2,036,728	25.39
55	5	0.01244	2.500	0.06031	76,556	4,617	371,237	0.92438	1,644,794	21.48
60	5	0.01927	2.500	0.09191	71,939	6,612	343,165	0.88519	1,273,558	17.70
65	5	0.03011	2.500	0.14003	65,327	9,148	303,767	0.82616	930,393	14.24
70	5	0.04772	2.500	0.21316	56,180	11,976	250,960	0.73793	626,625	11.15
75	5	0.07739	2.500	0.32422	44,204	14,332	185,191	0.50703	375,666	8.50
80	+	0.15683	6.376	1.00000	29,872	29,872	190,475		190,475	6.38

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04218	0.172	0.04076	100,000	4,076	96,626	0.95205	6,751,616	67.52
1	4	0.00486	1.667	0.01920	95,924	1,842	379,399	0.98376	6,654,990	69.38
5	5	0.00181	2.500	0.00899	94,082	846	468,297	0.99243	6,275,590	66.70
10	5	0.00123	2.500	0.00613	93,237	571	464,754	0.99293	5,807,293	62.29
15	5	0.00161	2.500	0.00801	92,665	742	461,470	0.99077	5,342,539	57.65
20	5	0.00210	2.500	0.01047	91,923	962	457,209	0.98865	4,881,069	53.10
25	5	0.00246	2.500	0.01223	90,961	1,113	452,022	0.98697	4,423,859	48.63
30	5	0.00279	2.500	0.01384	89,848	1,243	446,133	0.98499	3,971,837	44.21
35	5	0.00327	2.500	0.01620	88,605	1,435	439,437	0.98137	3,525,704	39.79
40	5	0.00427	2.500	0.02110	87,170	1,839	431,251	0.97681	3,086,268	35.41
45	5	0.00513	2.500	0.02533	85,330	2,161	421,248	0.96954	2,655,017	31.11
50	5	0.00728	2.500	0.03573	83,169	2,972	408,415	0.95842	2,233,769	26.86
55	5	0.00976	2.500	0.04765	80,197	3,822	391,432	0.93955	1,825,354	22.76
60	5	0.01534	2.500	0.07388	76,376	5,643	367,770	0.90441	1,433,922	18.77
65	5	0.02531	2.500	0.11903	70,733	8,419	332,615	0.84751	1,066,152	15.07
70	5	0.04211	2.500	0.19048	62,313	11,869	281,894	0.76189	733,537	11.77
75	5	0.06974	2.500	0.29694	50,444	14,979	214,773	0.52446	451,643	8.95
80	+	0.14972	6.679	1.00000	35,465	35,465	236,870		236,870	6.68

Kusini Pemba

Abridged Life Table Based on Deaths and Population: Male

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04781	0.175	0.04600	100,000	4,600	96,204	0.94710	6,479,607	64.80
1	4	0.00494	1.720	0.01956	95,400	1,866	377,348	0.98257	6,383,403	66.91
5	5	0.00204	2.500	0.01015	93,534	950	465,298	0.99160	6,006,055	64.21
10	5	0.00133	2.500	0.00663	92,585	614	461,389	0.99126	5,540,757	59.85
15	5	0.00219	2.500	0.01087	91,971	1,000	457,355	0.98679	5,079,368	55.23
20	5	0.00314	2.500	0.01558	90,971	1,417	451,313	0.98421	4,622,012	50.81
25	5	0.00323	2.500	0.01600	89,554	1,433	444,188	0.98325	4,170,699	46.57
30	5	0.00353	2.500	0.01751	88,121	1,543	436,749	0.98135	3,726,510	42.29
35	5	0.00400	2.500	0.01982	86,578	1,716	428,602	0.97779	3,289,761	38.00
40	5	0.00499	2.500	0.02465	84,863	2,092	419,083	0.97201	2,861,159	33.72
45	5	0.00638	2.500	0.03142	82,771	2,601	407,352	0.96155	2,442,076	29.50
50	5	0.00936	2.500	0.04572	80,170	3,665	391,688	0.94712	2,034,724	25.38
55	5	0.01245	2.500	0.06039	76,505	4,620	370,974	0.92429	1,643,036	21.48
60	5	0.01929	2.500	0.09201	71,885	6,614	342,887	0.88507	1,272,062	17.70
65	5	0.03015	2.500	0.14016	65,270	9,148	303,480	0.82600	929,175	14.24
70	5	0.04776	2.500	0.21335	56,122	11,973	250,676	0.73774	625,695	11.15
75	5	0.07745	2.500	0.32444	44,148	14,324	184,933	0.50687	375,019	8.49
80	+	0.15690	6.373	1.00000	29,825	29,825	190,087		190,087	6.37

Abridged Life Table Based on Deaths and Population: Female

Age, x	Width, n	nMx	nax	nqx	lx	ndx	nLx	5Px	Tx	ex
0	1	0.04735	0.187	0.04559	100,000	4,559	96,292	0.94526	6,584,619	65.85
1	4	0.00616	1.659	0.02429	95,441	2,318	376,337	0.97974	6,488,326	67.98
5	5	0.00221	2.500	0.01101	93,123	1,025	463,052	0.99086	6,111,990	65.63
10	5	0.00146	2.500	0.00725	92,098	668	458,821	0.99179	5,648,938	61.34
15	5	0.00184	2.500	0.00918	91,430	839	455,053	0.98952	5,190,117	56.77
20	5	0.00237	2.500	0.01179	90,591	1,068	450,286	0.98722	4,735,064	52.27
25	5	0.00278	2.500	0.01378	89,523	1,234	444,532	0.98528	4,284,778	47.86
30	5	0.00316	2.500	0.01566	88,290	1,383	437,990	0.98303	3,840,246	43.50
35	5	0.00369	2.500	0.01830	86,907	1,591	430,556	0.97921	3,402,256	39.15
40	5	0.00472	2.500	0.02333	85,316	1,991	421,603	0.97454	2,971,700	34.83
45	5	0.00561	2.500	0.02765	83,325	2,304	410,867	0.96708	2,550,097	30.60
50	5	0.00782	2.500	0.03834	81,021	3,106	397,342	0.95541	2,139,230	26.40
55	5	0.01049	2.500	0.05109	77,915	3,981	379,624	0.93556	1,741,889	22.36
60	5	0.01634	2.500	0.07850	73,935	5,804	355,162	0.89906	1,362,264	18.43
65	5	0.02673	2.500	0.12529	68,130	8,536	319,311	0.84045	1,007,102	14.78
70	5	0.04413	2.500	0.19872	59,594	11,843	268,364	0.75328	687,791	11.54
75	5	0.07243	2.500	0.30663	47,752	14,642	202,153	0.51803	419,427	8.78
80	+	0.15239	6.562	1.00000	33,110	33,110	217,274		217,274	6.56

Appendix 2: District Childhood Mortality, Tanzania 2012 Census

Area/Region/District	IMR			CMR			U5MR		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
Tanzania	**46.2**	**50.9**	**41.3**	**21.3**	**23.0**	**19.7**	**66.5**	**72.7**	**60.2**
Urban	48.5	53.9	42.9	23.9	25.9	21.8	71.2	78.4	63.8
Rural	46.0	50.5	41.3	20.9	22.4	19.3	65.9	71.8	59.9
Tanzania Mainland	**46.2**	**50.9**	**41.3**	**21.3**	**23.0**	**19.6**	**66.5**	**72.7**	**60.1**
Urban	47.8	53.1	42.3	23.6	25.6	21.5	70.2	77.3	62.9
Rural	45.3	49.7	40.7	20.6	22.1	19.1	64.9	70.6	59.0
Tanzania Zanzibar	**46.4**	**51.0**	**41.6**	**22.0**	**23.6**	**20.4**	**67.4**	**73.3**	**61.2**
Urban	48.0	55.5	40.4	23.5	27.3	19.5	70.3	81.3	59.1
Rural	44.9	49.5	40.1	20.4	22.0	18.7	64.3	70.4	58.0
Dodoma	**42.1**	**47.5**	**36.5**	**16.1**	**18.8**	**13.4**	**57.5**	**65.5**	**49.4**
Kondoa District Council	**33.4**	36.7	30.1	**11.0**	11.8	10.2	**44.1**	48.0	39.9
Mpwapwa District Council	**39.8**	46.2	33.1	**12.6**	15.6	9.5	**51.9**	61.1	42.3
Kongwa District Council	**40.6**	43.5	37.6	**15.2**	16.1	14.2	**55.1**	58.9	51.2
Chamwino District Council	**42.5**	44.4	40.4	**16.5**	17.2	15.7	**58.2**	60.9	55.5
Dodoma Municipal Council	**43.6**	50.6	36.4	**18.4**	22.0	14.6	**61.2**	71.5	50.5
Bahi District Council	**45.5**	54.5	36.4	**16.9**	22.1	11.6	**61.6**	75.3	47.5
Chemba District Council	**49.3**	58.6	39.6	**23.0**	28.4	17.6	**71.1**	85.3	56.5
Arusha	**29.0**	**32.1**	**25.8**	**8.6**	**9.5**	**7.7**	**37.3**	**41.3**	**33.3**
Monduli District Council	**27.9**	30.6	25.2	**7.5**	8.1	6.9	**35.2**	38.4	31.9
Meru District Council	**32.8**	32.8	32.8	**9.7**	9.4	10.1	**42.2**	41.9	42.5
Arusha City Council	**31.7**	40.9	22.2	**9.0**	12.2	5.7	**40.4**	52.5	27.8
Karatu District Council	**34.2**	35.8	32.5	**12.1**	11.5	12.8	**45.9**	46.8	44.9
Ngorongoro District Council	**12.6**	14.6	10.5	**1.8**	1.9	1.6	**14.3**	16.5	12.1
Arusha District Council	**32.6**	36.4	28.8	**10.7**	12.0	9.4	**43.0**	48.0	37.9
Longido District Council	**33.9**	39.3	28.3	**11.5**	13.6	9.3	**45.0**	52.4	37.4
Kilimanjaro	**29.6**	**31.8**	**27.3**	**9.2**	**9.3**	**9.0**	**38.5**	**40.8**	**36.1**
Rombo District Council	**31.8**	36.7	26.8	**10.1**	11.1	9.0	**41.5**	47.3	35.5
Mwanga District Council	**27.5**	27.9	27.1	**8.6**	8.0	9.2	**35.8**	35.7	36.0
Same District Council	**26.3**	26.8	25.8	**6.9**	6.6	7.3	**33.1**	33.2	32.9
Moshi District Council	**32.6**	36.4	28.7	**10.5**	10.9	10.0	**42.7**	46.9	38.4
Hai District Council	**30.7**	33.0	28.4	**9.3**	12.5	6.0	**39.7**	45.1	34.3
Moshi Municipal Council	**35.7**	38.8	32.5	**12.7**	12.3	13.2	**47.9**	50.6	45.2
Siha District Council	**28.0**	29.1	26.8	**7.6**	6.7	8.5	**35.3**	35.6	35.1
Tanga	**44.7**	**48.6**	**40.8**	**20.1**	**21.3**	**19.0**	**64.0**	**68.8**	**59.0**
Lushoto District Council	**44.8**	45.6	43.9	**21.1**	20.3	22.0	**64.9**	65.0	64.9
Korogwe District Council	**37.3**	41.9	32.5	**11.8**	14.2	9.3	**48.6**	55.5	41.5
Muheza District Council	**43.1**	46.8	39.4	**18.5**	19.7	17.3	**60.8**	65.6	56.0
Tanga City Council	**39.5**	42.8	36.0	**16.0**	16.8	15.1	**54.8**	58.9	50.6
Pangani District Council	**52.7**	59.6	45.7	**25.7**	29.0	22.4	**77.1**	86.9	67.0
Handeni District Council	**56.9**	61.5	52.2	**29.5**	30.7	28.3	**84.8**	90.4	79.0
Kilindi District Council	**42.1**	46.0	38.0	**16.0**	17.6	14.4	**57.4**	62.8	51.9
Mkinga District Council	**49.7**	55.2	43.9	**25.5**	31.1	19.6	**73.8**	84.6	62.7
Korogwe Town Council	**44.3**	46.6	41.9	**19.5**	19.0	20.1	**62.9**	64.7	61.1
Handeni Town Council	**35.0**	38.0	31.9	**19.0**	20.7	17.3	**53.4**	57.9	48.7

Area/Region/District	IMR			CMR			U5MR		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
Morogoro	**47.6**	**54.3**	**40.7**	**22.1**	**25.5**	**18.7**	**68.7**	**78.4**	**58.6**
Kilosa District Council	**40.2**	43.5	36.7	**14.9**	15.2	14.5	**54.4**	58.0	50.7
Morogoro District Council	**58.6**	62.1	54.9	**32.2**	34.3	30.1	**88.9**	94.3	83.3
Kilombero District Council	**50.3**	57.6	42.8	**24.0**	27.4	20.4	**73.1**	83.4	62.4
Ulanga District Council	**48.9**	57.2	40.3	**23.1**	27.4	18.6	**70.8**	83.0	58.1
Morogoro Municipal Council	**46.8**	55.8	37.6	**22.2**	27.3	17.0	**68.0**	81.6	53.9
Mvomero District Council	**44.7**	53.4	35.8	**19.8**	24.9	14.6	**63.6**	76.9	49.9
Gairo District Council	**47.6**	56.4	38.5	**22.3**	27.3	17.2	**68.8**	82.1	55.0
Pwani	**51.3**	**57.0**	**45.5**	**25.3**	**27.6**	**23.0**	**75.4**	**83.1**	**67.4**
Bagamoyo District Council	**53.0**	57.4	48.5	**26.5**	27.4	25.5	**78.1**	83.3	72.8
Kibaha District Council	**43.8**	49.9	37.5	**18.1**	21.5	14.6	**61.1**	70.3	51.5
Kisarawe District Council	**55.8**	60.5	51.0	**30.0**	30.7	29.4	**84.2**	89.3	78.9
Mkuranga District Council	**52.0**	57.0	46.9	**25.4**	27.0	23.6	**76.0**	82.5	69.4
Rufiji District Council	**49.4**	55.6	43.0	**23.7**	26.5	20.8	**71.9**	80.6	62.9
Mafia District Council	**61.4**	62.9	60.0	**37.0**	37.2	36.7	**96.1**	97.7	94.5
Kibaha Town Council	**46.2**	52.7	39.5	**21.2**	29.3	12.8	**66.4**	80.5	51.8
Dar es Salaam	**49.0**	**54.4**	**43.4**	**24.6**	**26.5**	**22.5**	**72.3**	**79.5**	**64.9**
Kinondoni Municipal Council	**49.2**	55.0	43.2	**24.6**	26.9	22.3	**72.6**	80.4	64.5
Ilala Municipal Council	**42.4**	47.7	37.0	**19.1**	21.4	16.8	**60.7**	68.1	53.2
Temeke Municipal Council	**54.4**	59.3	49.2	**29.2**	30.6	27.8	**82.0**	88.1	75.7
Lindi	**47.0**	**56.5**	**37.2**	**19.0**	**24.9**	**12.8**	**65.0**	**80.0**	**49.5**
Kilwa District Council	**44.9**	55.5	34.0	**16.9**	23.9	9.7	**61.0**	78.1	43.4
Lindi District Council	**50.7**	62.2	38.9	**22.1**	29.4	14.6	**71.7**	89.8	53.0
Nachingwea District Council	**44.6**	50.5	38.5	**17.5**	20.3	14.7	**61.3**	69.7	52.6
Liwale District Council	**42.2**	51.9	32.2	**13.3**	19.4	7.0	**54.8**	70.2	39.0
Ruangwa District Council	**47.5**	58.6	36.2	**19.1**	26.6	11.4	**65.7**	83.6	47.2
Lindi Municpal Council	**53.7**	60.9	46.2	**27.7**	31.4	23.9	**79.9**	90.4	69.0
Mtwara	**45.2**	**52.3**	**38.0**	**18.0**	**21.9**	**13.9**	**62.3**	**73.0**	**51.4**
Mtwara District Council	**41.7**	49.7	33.3	**13.8**	18.2	9.2	**54.8**	67.0	42.2
Newala District Council	**45.8**	54.2	37.1	**19.3**	24.4	14.0	**64.1**	77.3	50.6
Masasi District Council	**40.1**	47.1	32.9	**13.4**	17.3	9.3	**52.9**	63.6	41.8
Tandahimba District Council	**44.8**	49.4	40.0	**17.5**	19.1	15.7	**61.5**	67.6	55.1
Mtwara Municipal Council	**43.5**	47.1	39.8	**19.9**	22.0	17.8	**62.5**	68.1	56.9
Nanyumbu District Council	**63.4**	71.3	55.3	**33.0**	36.5	29.3	**94.2**	105.1	83.1
Masasi District Council	**36.8**	47.0	26.3	**11.4**	18.5	4.0	**47.6**	64.6	30.2
Ruvuma	**47.6**	**52.4**	**42.6**	**22.2**	**23.9**	**20.4**	**68.7**	**75.0**	**62.2**
Tunduru District Council	**43.3**	48.0	38.5	**16.0**	17.6	14.3	**58.6**	64.7	52.3
Songea District Council	**54.1**	55.9	52.2	**30.6**	30.8	30.5	**83.0**	84.9	81.1
Mbinga District Council	**42.8**	47.9	37.5	**19.4**	21.2	17.5	**61.3**	68.1	54.3
Songea Municipal Council	**47.5**	51.8	43.2	**22.4**	23.4	21.4	**68.9**	74.0	63.7
Namtumbo District Council	**68.1**	77.0	58.9	**39.0**	42.8	35.1	**104.4**	116.4	92.0
Nyasa District Council	**30.9**	34.0	27.7	**7.1**	8.2	6.0	**37.8**	41.9	33.5

Area/Region/District	IMR			CMR			U5MR		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
Iringa	**59.8**	**66.6**	**52.7**	**33.0**	**35.8**	**30.0**	**90.7**	**100.0**	**81.2**
Iringa District Council	**56.1**	60.2	51.9	**30.3**	32.1	28.4	**84.7**	90.4	78.8
Mufindi District Council	**64.5**	69.5	59.4	**36.5**	36.8	36.2	**98.7**	103.8	93.5
Iringa Municipal Council	**49.1**	58.1	39.7	**23.6**	28.3	18.6	**71.4**	84.8	57.6
Kilolo District Council	**67.5**	78.3	56.4	**38.8**	44.6	32.9	**103.6**	119.4	87.4
Mafinga Town Council	**50.1**	58.7	41.2	**24.5**	28.8	20.0	**73.3**	85.8	60.4
Mbeya	**49.0**	**53.7**	**44.2**	**23.7**	**25.1**	**22.2**	**71.5**	**77.5**	**65.5**
Chunya District Council	**38.2**	41.3	35.0	**13.7**	14.3	13.0	**51.4**	55.0	47.6
Mbeya District Council	**53.1**	59.3	46.7	**25.9**	28.8	23.0	**77.6**	86.4	68.6
Kyela District Council	**42.1**	47.9	36.0	**17.0**	20.4	13.5	**58.4**	67.4	49.1
Rungwe District Council	**47.8**	52.8	42.6	**23.1**	24.9	21.3	**69.8**	76.4	63.0
Ileje District Council	**51.9**	59.4	44.2	**27.7**	31.2	24.0	**78.1**	88.7	67.1
Mbozi District Council	**48.1**	51.0	45.1	**24.2**	23.9	24.5	**71.1**	73.7	68.5
Mbarali District Council	**49.6**	54.2	44.9	**14.8**	24.6	4.6	**63.6**	77.5	49.4
Mbeya City Council	**52.7**	57.7	47.5	**29.0**	30.2	27.8	**80.2**	86.2	73.9
Momba District Council	**57.5**	61.8	53.0	**30.4**	30.9	29.9	**86.1**	90.8	81.3
Tunduma Town Council	**54.9**	57.8	51.9	**30.8**	29.8	31.9	**84.0**	85.8	82.2
Singida	**32.4**	**35.6**	**29.2**	**10.7**	**11.6**	**9.7**	**42.8**	**46.8**	**38.6**
Iramba District Council	**33.6**	34.1	33.1	**13.6**	14.1	13.1	**46.8**	47.7	45.8
Singida District Council	**21.8**	25.8	17.6	**3.8**	4.7	2.9	**25.5**	30.4	20.5
Manyoni District Council	**40.3**	43.7	36.8	**15.6**	16.0	15.1	**55.2**	59.0	51.3
Singida Municipal Council	**34.3**	39.0	29.4	**12.0**	13.9	10.1	**45.9**	52.3	39.2
Ikungi District Council	**29.4**	33.8	24.9	**7.8**	9.7	5.8	**37.0**	43.2	30.6
Mkalama District Council	**33.2**	35.4	30.9	**11.0**	11.0	11.1	**43.8**	46.0	41.6
Tabora	**47.5**	**52.4**	**42.4**	**23.0**	**24.8**	**21.2**	**69.4**	**75.9**	**62.6**
Nzega District Council	**41.6**	46.2	36.9	**17.4**	18.8	16.0	**58.3**	64.1	52.3
Igunga District Council	**42.0**	47.1	36.6	**17.8**	19.6	15.9	**59.0**	65.8	51.9
Uyui District Council	**54.7**	57.8	51.4	**30.0**	31.1	28.9	**83.0**	87.1	78.8
Urambo District Council	**48.7**	54.5	42.8	**22.7**	24.7	20.7	**70.3**	77.8	62.5
Sikonge District Council	**47.4**	56.2	38.2	**22.2**	26.9	17.4	**68.5**	81.6	55.0
Tabora Municipal Council	**57.0**	59.1	54.7	**32.7**	33.4	32.1	**87.8**	90.6	85.0
Kaliua District Council	**49.5**	55.3	43.6	**23.6**	25.6	21.6	**71.9**	79.4	64.3
Rukwa	**54.8**	**59.9**	**49.5**	**27.9**	**29.4**	**26.3**	**81.2**	**87.6**	**74.6**
Kalambo District Council	**53.9**	59.6	48.0	**25.3**	26.5	24.1	**77.9**	84.5	71.0
Sumbawanga District Council	**56.2**	58.2	54.0	**31.4**	32.5	30.3	**85.8**	88.8	82.7
Nkasi District Council	**59.7**	68.2	50.9	**30.7**	33.9	27.4	**88.5**	99.8	77.0
Sumbawanga Municipal Council	**44.7**	48.3	41.0	**20.0**	20.0	20.0	**63.8**	67.3	60.2
Kigoma	**48.9**	**54.3**	**43.4**	**24.0**	**26.1**	**21.8**	**71.7**	**78.9**	**64.2**
Kibondo District Council	**40.7**	46.2	34.9	**17.4**	20.2	14.5	**57.3**	65.5	48.9
Kasulu District Council	**44.0**	48.9	39.0	**21.0**	22.7	19.2	**64.1**	70.5	57.4
Kigoma District Council	**64.0**	67.8	60.1	**37.4**	37.0	37.8	**99.1**	102.3	95.7
Kigoma-Ujiji Munic. Council	**65.4**	73.4	57.3	**39.3**	42.2	36.2	**102.1**	112.5	91.5
Uvinza District Council	**50.2**	55.5	44.7	**24.9**	27.3	22.4	**73.8**	81.2	66.2
Buhigwe District Council	**47.4**	51.3	43.4	**24.0**	24.5	23.4	**70.2**	74.5	65.8
Kakonko District Council	**49.1**	56.2	41.8	**24.9**	28.4	21.2	**72.8**	83.0	62.2
Kaulu Town Council	**36.1**	41.0	31.0	**14.3**	16.6	11.9	**49.8**	57.0	42.4

Area/Region/District	IMR			CMR			U5MR		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
Shinyanga	**46.2**	**50.8**	**41.5**	**21.6**	**23.1**	**20.0**	**66.7**	**72.7**	**60.6**
Shinyanga Municipal Council	**49.3**	53.1	45.3	**24.7**	25.0	24.4	**72.7**	76.7	68.6
Kishapu District Council	**36.6**	39.0	34.1	**14.0**	14.6	13.3	**50.0**	53.0	46.9
Shinyanga District Council	**36.9**	39.2	34.5	**14.5**	15.4	13.6	**50.9**	54.1	47.7
Kahama District Council	**53.2**	60.1	46.1	**27.5**	30.4	24.5	**79.2**	88.7	69.5
Kahama Town Council	**50.7**	55.6	45.6	**25.7**	26.8	24.6	**75.1**	80.9	69.1
Kagera	**61.8**	**67.1**	**56.4**	**34.2**	**35.6**	**32.7**	**93.9**	**100.3**	**87.2**
Karagwe District Council	**56.5**	61.7	51.1	**29.0**	30.0	27.9	**83.8**	89.9	77.6
Bukoba District Council	**69.8**	76.7	62.7	**40.7**	42.5	38.8	**107.6**	115.9	99.0
Muleba District Council	**64.6**	70.8	58.2	**36.0**	37.6	34.4	**98.3**	105.7	90.6
Biharamulo District Council	**50.9**	57.6	44.1	**24.1**	26.6	21.6	**73.8**	82.6	64.7
Ngara District Council	**68.2**	73.1	63.2	**38.0**	38.2	37.8	**103.6**	108.5	98.5
Bukoba Municipal Council	**62.3**	71.2	53.1	**34.8**	38.8	30.7	**94.9**	107.3	82.2
Missenyi District Council	**55.1**	57.7	52.3	**27.4**	27.7	27.2	**81.0**	83.8	78.0
Kyerwa District Council	**66.1**	67.7	64.6	**42.2**	43.8	40.5	**105.5**	108.5	102.4
Mwanza	**44.3**	**48.2**	**40.3**	**20.4**	**21.3**	**19.5**	**63.8**	**68.5**	**59.0**
Ukerewe District Council	**55.8**	58.6	52.9	**31.7**	32.3	31.0	**85.7**	89.1	82.3
Magu District Council	**42.0**	45.8	38.2	**17.9**	18.2	17.6	**59.2**	63.1	55.1
Nyamagana Municipal Council	**51.3**	56.5	46.0	**26.2**	27.1	25.3	**76.1**	82.0	70.1
Kwimba District Council	**45.1**	51.3	38.6	**20.6**	22.9	18.3	**64.7**	73.0	56.2
Sengerema District Council	**38.1**	40.0	36.1	**16.2**	16.6	15.8	**53.7**	56.0	51.3
Ilemela Municipal Council	**42.2**	46.7	37.7	**18.1**	19.1	17.1	**59.6**	64.9	54.1
Misungwi District Council	**40.5**	44.9	35.9	**16.6**	17.7	15.6	**56.4**	61.8	50.9
Mara	**50.7**	**55.1**	**46.2**	**24.2**	**25.6**	**22.8**	**73.6**	**79.2**	**67.9**
Tarime District Council	**37.9**	39.2	36.6	**13.2**	13.3	13.2	**50.7**	52.0	49.4
Serengeti District Council	**45.2**	50.1	40.2	**18.9**	20.8	16.9	**63.2**	69.8	56.3
Musoma District Council	**58.8**	65.4	51.9	**30.6**	33.0	28.0	**87.5**	96.3	78.5
Bunda District Council	**49.2**	55.0	43.2	**23.1**	25.2	20.8	**71.1**	78.8	63.1
Musoma Municipal Council	**54.6**	62.9	46.1	**28.0**	31.9	23.9	**81.1**	92.8	68.9
Rorya District Council	**72.3**	72.3	72.2	**44.3**	41.5	47.2	**113.3**	110.8	116.0
Butiama District Council	**45.9**	53.4	38.2	**18.5**	23.0	13.9	**63.5**	75.2	51.6
Manyara	**33.3**	**37.7**	**28.9**	**11.6**	**13.4**	**9.7**	**44.5**	**50.6**	**38.3**
Babati District Council	**35.2**	38.0	32.3	**13.5**	14.1	12.9	**48.3**	51.6	44.8
Hanang District Council	**29.5**	34.8	24.0	**8.6**	11.5	5.5	**37.8**	45.9	29.4
Mbulu District Council	**38.0**	41.2	34.8	**15.8**	16.5	15.1	**53.2**	57.0	49.3
Simanjiro District Council	**27.8**	31.8	23.7	**8.3**	9.6	6.9	**35.8**	41.1	30.4
Kiteto District Council	**33.4**	40.3	26.3	**9.9**	14.0	5.7	**42.9**	53.7	31.9
Babati Town Council	**34.1**	37.0	31.1	**12.6**	13.2	12.0	**46.3**	49.8	42.8
Njombe	**54.5**	**59.8**	**49.0**	**28.5**	**30.3**	**26.7**	**81.4**	**88.3**	**74.4**
Njombe Town Council	**54.7**	58.4	50.9	**28.5**	28.2	28.7	**81.6**	85.0	78.1
Wanging'ombe Dist. Council	**51.1**	54.3	47.8	**25.6**	25.7	25.4	**75.3**	78.6	71.9
Makete District Council	**60.1**	68.9	51.0	**33.0**	38.3	27.5	**91.1**	104.6	77.1
Njombe District Council	**44.9**	48.0	41.7	**18.6**	19.1	18.2	**62.7**	66.2	59.1
Ludewa District Council	**55.9**	63.5	48.0	**30.4**	34.3	26.4	**84.5**	95.6	73.1
Makambako Town Council	**61.4**	67.5	55.0	**36.0**	37.9	34.0	**95.1**	102.9	87.1

Area/Region/District	IMR			CMR			U5MR		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
Katavi	**58.2**	**64.2**	**52.0**	**31.7**	**33.9**	**29.4**	**88.0**	**95.9**	**79.9**
Mpanda Town Council	**57.1**	70.0	43.8	**29.4**	39.1	19.5	**84.7**	106.4	62.4
Mpanda District Council	**62.6**	66.2	58.9	**34.4**	34.3	34.6	**94.9**	98.2	91.4
Mlele District Council	**56.0**	61.1	50.8	**30.5**	32.1	28.9	**84.8**	91.2	78.2
Simiyu	**39.4**	**41.8**	**37.0**	**15.4**	**15.2**	**15.6**	**54.3**	**56.4**	**52.1**
Bariadi District Council	**40.8**	42.8	38.9	**16.7**	16.0	17.5	**56.9**	58.1	55.7
Itilima District Council	**28.1**	28.8	27.4	**6.0**	6.0	6.0	**33.9**	34.6	33.2
Meatu District Council	**37.2**	39.7	34.6	**13.2**	13.2	13.3	**49.9**	52.3	47.5
Maswa District Council	**43.5**	47.6	39.3	**20.2**	21.0	19.5	**62.9**	67.6	58.0
Busega District Council	**49.3**	51.7	46.7	**24.5**	23.3	25.7	**72.5**	73.8	71.2
Geita	**41.0**	**44.1**	**37.7**	**17.6**	**17.9**	**17.2**	**57.8**	**61.2**	**54.3**
Geita District Council	**42.3**	44.9	39.6	**18.8**	18.6	19.0	**60.3**	62.7	57.9
Nyang'hwale District Council	**34.6**	38.5	30.5	**11.9**	13.2	10.6	**46.1**	51.2	40.8
Mbogwe District Council	**36.8**	40.9	32.5	**13.6**	14.6	12.7	**49.9**	54.9	44.8
Bukombe District Council	**41.3**	43.2	39.4	**18.7**	18.7	18.7	**59.3**	61.1	57.4
Chato District Council	**42.6**	46.8	38.2	**18.6**	19.7	17.4	**60.4**	65.6	55.0
Kaskazini Unguja	**42.1**	**47.2**	**36.9**	**18.1**	**20.5**	**15.6**	**59.5**	**66.8**	**51.9**
Kaskazini A District	**42.9**	50.6	35.0	**20.0**	24.7	15.1	**62.0**	74.1	49.5
Kaskazini B District	**37.4**	39.2	35.6	**14.8**	14.3	15.4	**51.7**	52.9	50.4
Kusini Unguja	**56.8**	**63.4**	**50.1**	**30.8**	**33.5**	**28.0**	**85.9**	**94.8**	**76.7**
Kati District	**60.4**	67.9	52.6	**32.9**	35.1	30.7	**91.3**	100.7	81.7
Kusini District	**49.7**	54.6	44.6	**26.2**	30.1	22.2	**74.6**	83.1	65.8
Mjini Magharibi	**47.1**	**53.6**	**40.4**	**23.0**	**26.1**	**19.8**	**69.0**	**78.3**	**59.4**
Magharibi District	**47.4**	53.6	41.0	**23.2**	26.1	20.3	**69.5**	78.3	60.5
Mjini District	**51.5**	55.0	47.8	**27.2**	27.2	27.1	**77.2**	80.7	73.6
Kaskazini Pemba	**43.4**	**45.9**	**40.8**	**19.3**	**19.4**	**19.2**	**61.8**	**64.4**	**59.2**
Wete District	**37.5**	42.2	32.7	**14.3**	16.5	12.1	**51.3**	58.0	44.4
Micheweni District	**49.7**	50.0	49.5	**24.2**	22.2	26.1	**72.7**	71.1	74.3
Kusini Pemba	**45.8**	**46.0**	**45.6**	**21.9**	**19.6**	**24.3**	**66.7**	**64.7**	**68.8**
Chake Chake District	**44.7**	47.0	42.4	**20.0**	18.6	21.3	**63.8**	64.8	62.8
Mkoani District	**46.8**	45.0	48.7	**23.7**	20.4	27.1	**69.4**	64.5	74.5

Appendix 3: Census Questionnaires

Short Questionnaire

THE UNITED REPUBLIC OF TANZANIA

2012 POPULATION AND HOUSING CENSUS

SHORT QUESTIONNAIRE

STRICTLY CONFIDENTIAL **PHCF 2**

FORM NO. ☐☐ **OF** ☐☐

A: IDENTIFICATION

Region …… District…….. Ward/Shehia……..... Village/Street ……..... **EA** **HOUSEHOLD NO.**

☐☐ ☐☐ ☐☐☐ ☐☐ ☐☐☐ ☐☐☐

B: ALL PERSONS

No.	HOUSEHOLD MEMBERS	RELATIONSHIP TO THE HEAD OF HOUSEHOLD	SEX	AGE	DISABILITY					
					ALBINISM	SEEING	HEARING	WALKING	REMEMBERING	SELF-CARE
	Please state the names of all persons who spent the census night, that is Sunday 26th August, 2012 in your household, starting with the name of the head of household	What is the relationship of [NAME] to the head of the household? Head = 1 Spouse = 2 Son/Daughter = 3 Parent = 4 Grand Child = 5 Other Relative = 6 Not Related = 7	Is [NAME] a male or a female? MALE = 1 FEMALE = 2	How old is [NAME]? WRITE AND SHADE AGE IN COMPLETE YEARS. IF UNDER ONE YEAR WRITE "00" FOR 97 YEARS AND ABOVE WRITE '97'	Is [NAME] an albino? Yes = 1 No = 2	Does (NAME) have difficulty seeing, even if wearing glasses? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to See = 4 Not Applicable = 5	Does (NAME) have difficulty hearing, even if using a hearing aid? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to Hear = 4 Not Applicable = 5	Does [NAME] have difficulty walking or climbing steps? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to Walk = 4 Not Applicable = 5	Does (NAME) have difficulty remembering or concentrating? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to Remember = 4 Not Applicable = 5	Does (NAME) have difficulty with self-care, such as washing all over or dressing? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to Care = 4 Not Applicable = 5
(01)	(02)	(03)	(04)	(05)	06	(07)	(08)	(09)	(10)	(11)
1		☐	☐	☐☐	☐	☐	☐	☐	☐	☐
2		☐	☐	☐☐	☐	☐	☐	☐	☐	☐

If an extra Questionnaire has been used put an "X" in the box ☐

B: ALL PERSONS

No.	DISABILITY OTHER DISABILITIES		MARITAL STATUS	CITIZENSHIP	PLACE OF RESIDENCE	WHERE RESPONDENT SPENDS MOST OF THE DAY TIME	BIRTH CERTIFICATE
	11A) Does, [NAME] have other type of disabilities/difficulties among the following? READ ALL TYPES OF DISABILITIES/DIFFICULTIES TO RESPONDENT.		What is current marital status of [NAME]? READ ALL RESPONSES TO RESPONDENT Never Married = 1 Married = 2 Living together = 3 Divorced = 4 Separated = 5 Widowed = 6 Not Stated = 7	[NAME] is a citizen of which country? IF TANZANIAN, WRITE CODE 1 IN THE BOX ON THE LEFT WRITE CODE OF THE COUNTRY IN THE TWO BOXES ON THE RIGHT. FOR DUAL CITIZENSHIP, WRITE CODE '98" CODES ARE ON A SEPARATE SHEET	Which region/country does [NAME] usually live? WRITE AND SHADE CODE FOR THE REGION AND DISTRICT IF LIVING IN TANZANIA, OR THE COUNTRY CODE FOLLOWED BY "44" IF LIVING OUTSIDE TANZANIA.	Where do you spend most of your time during a day? WRITE AND SHADE REGION AND DISTRICT CODES IF SPENDS MOST OF THE DAY TIME IN TANZANIA OR THE COUNTRY CODE FOLLOWED BY "444" IF OUTSIDE TANZANIA CODES FOR THE 5th BOX Rural =1 Regional /District Headquarters =2 Other Urban= 3	Does (NAME) has birth certificate/notification? Yes birth certificate= 1 Yes birth notification= 2 No = 3 Don't Know = 4
(01)	IF ANSWER IS NO, GO TO QUESTION 12	MULTIPLE RESPONSE IS ALLOWED					
	Yes / No	Cleft Palate / Spinal befida / Spinal cord injuries / Mental health / Psoriasis	(12)	(13)	(14)	(15)	(16)
1	1 2	1 2 3 4 5					
2	1 2	1 2 3 4 5					
3	1 2	1 2 3 4 5					
4	1 2	1 2 3 4 5					
5	1 2	1 2 3 4 5					
6	1 2	1 2 3 4 5					
7	1 2	1 2 3 4 5					

C: EDUCATION: ALL PERSONS AGED 4 YEARS AND ABOVE			
No.	**LITERACY**	**EDUCATION ATTAINMENT**	**LEVEL OF EDUCATION**
	Can [NAME] read and write a short sentence in Kiswahili, English, Kiswahili and English or any other language? Kiswahili = 1 English = 2 Kiswahili and English = 3 Other Languages = 4 Illiterate = 5	Are you/Is [NAME] currently attending, partially attended, completed or never attended school? Now attending =1 Partially attended =2 Completed =3 Never attended =4 IF THE ANSWER IS 'NEVER ATTENDED' SKIP TO SECTION D	What level of education has [NAME] completed or is currently attending? WRITE AND SHADE THE APPROPRIATE CODE. CODES ARE IN SEPARATE HANDBOOK
(01)	(17)	(18)	(19)
1			
2			
3			
4			
5			
6			
7			
8			

D: GENERAL AND MATERNAL DEATHS

PLEASE RECORD INFORMATION ON DEATHS THAT OCCURRED IN THE HOUSEHOLD DURING THE LAST 12 MONTHS. DO NOT FORGET CHILDHOOD MORTALITY

(20) Was there any death which occurred in this household during the last 12 months?

Yes = 1
No = 2 ☐ IF THE ANSWER IS NO, SKIP TO SECTION E

IF THE ANSWER IS YES, RECORD THE NUMBER OF DEATHS ☐☐

Death Serial Number	Was the deceased a male or a female? Male =1 Female =2	How old was the deceased at the time of death? WRITE AGE IN COMPLETED YEARS. IF UNDER ONE YEAR WRITE "00" IF IS 97 YEARS OR ABOVE WRITE '97'	What was the cause of death? Road Accident = 1 Other Injuries = 2 Suicide = 3 Violence = 4 Sickness/Disease = 5 Martenal Death = 6 Other = 7	IF DEATH IS OF WOMAN AGED BETWEEN 12 AND 49 YEARS		
				Did the death occur during pregnancy? Yes = 1 No = 2 IF THE ANSWER IS YES, SKIP TO SECTION E	Did the death occur during childbirth Yes = 1 No = 2 IF THE ANSWER IS YES SKIP TO SECTION E	Did the death occur during the 6 weeks period following the end of pregnancy, irrespective of the way the pregnancy ended? Yes = 1 No = 2
(21)	(22)	(23)	(24)	(25)	(26)	(27)
1	☐	☐☐	☐	☐	☐	☐
2	☐	☐☐	☐	☐	☐	☐
3	☐	☐☐	☐	☐	☐	☐
4	☐	☐☐	☐	☐	☐	☐
5	☐	☐☐	☐	☐	☐	☐
6	☐	☐☐	☐	☐	☐	☐

If number of death is more than 8, use an extra questionnaire ☐

E: AGRICULTURE AND LIVESTOCK

AGRICULTURE

(28) Has/is any member of this household operated/operating any land for agricultural purposes during 2011/12 agricultural year?

Yes = 1
No = 2

IF THE ANSWER IS NO, SKIP TO QUESTION 30

☐

(29) Which of the following crops did the household grow?

	Yes	No
Maize	1	2
Paddy	1	2
Cassava	1	2
Banana	1	2
Other Crops	1	2

LIVESTOCK

(30) Was any member of this household engaged in raising cattle, goats, sheep or poultry up to the census night?

Yes = 1
No = 2

IF THE ANSWER IS NO, SKIP TO QUESTION 32

☐

(31) How many cattle, goats or sheep were available during the Census night?
IF NO, WRITE AND SHADE CODE "00000"

Cattle					
Goats					
Sheeps					
Poultry					

FISH FARMING

(32) Is there any member of this household who is currently engaged in fish farming?

Yes = 1
No = 2

☐

F: CITIZENS IN DIASPORA

33) Is there any person who was a member of this household currently living outside Tanzania?

Yes = 1
No = 2 ☐

IF THE ANSWER IS NO, SKIP TO SECTION G

	M	F
34) Write the number of males and females living outside Tanzania?	☐☐	☐☐

35) In which country are they living?

CODES ARE IN SEPARATE HANDBOOK

1st HH Member	☐☐	6th HH Member	☐☐
2nd HH Member	☐☐	7th HH Member	☐☐
3rd HH Member	☐☐	8th HH Member	☐☐
4th HH Member	☐☐	9th HH Member	☐☐
5th HH Member	☐☐	10th HH Member	☐☐

IF THE NUMBER OF DIASPORA IS MORE THAN 10, USE EXTRA QUESTIONNAIRE ☐

36) Have you or anyone in this household received remitance in the form of cash or in kind from them during the last 12 months? Yes =1, No =2

1st HH Member	☐	6th HH Member	☐
2nd HH Member	☐	7th HH Member	☐
3rd HH Member	☐	8th HH Member	☐
4th HH Member	☐	9th HH Member	☐
5th HH Member	☐	10th HH Member	☐

G: SOCIAL SECURITY FUNDS

37) Is there a person in this household who is a member of the following social security funds?

Yes = 1
No = 2 | | |

IF THE ANSWER IS NO, GO TO SECTION H, MULTIPLE RESPONSE IS ALLOWED

		Fund
National Social Security Fund (NSSF)	=1	
Zanzibar Social Security Fund (ZSSF)	=2	
Parastatal Pension Fund (PPF)	=3	
Public Service Pension Fund (PSPF)	=4	
Government Employee Provident Fund (GEPF)	=5	
Local Authority Pension Fund (LAPF)	=6	
National Health Insurance Fund/Community Health Fund (NHIF/CHF)	=7	
Other Funds	=8	

H: TOTAL NUMBER OF PERSONS IN THE HOUSEHOLD

Males			
Females			
Total			

DATE HOUSEHOLD ENUMERATED	**Day**		**Month**	

NAME OF SUPERVISOR _____

DATE OF EDITING QUESTIONNAIRE	**Day**		**Month**	

Long Questionnaire

PHCF 3

THE UNITED REPUBLIC OF TANZANIA

2012 POPULATION AND HOUSING CENSUS

STRICTLY CONFIDENTIAL

LONG QUESTIONNAIRE

FORM NO. ☐☐ OF ☐☐

A: IDENTIFICATION

Region …… District…… Ward/Shehia…… Village/Street …… EA ……

HOUSEHOLD NO. ☐☐☐

B: ALL PERSONS

No.	HOUSEHOLD MEMBERS	RELATIONSHIP TO THE HEAD OF HOUSEHOLD	SEX	AGE	DISABILITY					
					ALBINISM	SEEING	HEARING	WALKING	REMEMBERING	SELFCARE
	Please state the names of all persons who spent the census night, that is Sunday 26th August, 2012 in your household, starting with the name of the head of household	What is the relationship of [NAME] to the head of the household? Head = 1 Spouse = 2 Son/Daughter = 3 Parent = 4 Grand Child = 5 Other Relative = 6 Not Related = 7	Is [NAME] a male or a female? Male = 1 Female = 2	How old is [NAME]? WRITE AND SHADE AGE IN COMPLETE YEARS. IF UNDER ONE YEAR WRITE "00" FOR 97 YEARS AND ABOVE WRITE '97'	Is [NAME] an albino? Yes = 1 No = 2	Does (NAME) have difficulty seeing, even if wearing glasses? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to See = 4 Not Applicable = 5	Does (NAME) have difficulty hearing, even if using a hearing aid? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to Hear = 4 Not Applicable = 5	Does [NAME] have difficulty walking or climbing steps? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to Walk = 4 Not Applicable = 5	Does (NAME) have difficulty remembering or concentrating? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to Remember = 4 Not Applicable = 5	Does (NAME) have difficulty with self-care, such as washing all over or dressing? No Difficulty = 1 Some Difficulty = 2 A lot of Difficulty = 3 Unable to Care = 4 Not Applicable = 5
(01)	(02)	(03)	(04)	(05)	'(06)	(07)	(08)	(09)	(10)	(11)
1		☐	☐	☐☐	☐	☐	☐	☐	☐	☐
2		☐	☐	☐☐	☐	☐	☐	☐	☐	☐

If an extra Questionnaire has been used put an "X" in the box ☐

B: ALL PERSONS

No.	DISABILITY OTHER DISABILITIES								MARITAL STATUS	CITIZENSHIP		
	11A) Does, [NAME] have other type of disabilities/difficulties among the following? READ ALL TYPES OF DISABILITIES/DIFFICULTIES TO RESPONDENT.								What is current marital status of [NAME]? READ ALL RESPONSES TO RESPONDENT Never Married = 1 Married = 2 Living together = 3 Divorced = 4 Separated = 5 Widowed = 6 Not Stated = 7	[NAME] is a citizen of which country? IF TANZANIAN, WRITE CODE 1 IN THE BOX ON THE LEFT WRITE CODE OF THE COUNTRY IN THE TWO BOXES ON THE RIGHT. FOR DUAL CITIZENSHIP, WRITE CODE "98" CODES ARE ON A SEPARATE SHEET	
(01)	IF ANSWER IS NO, GO TO QUESTION 12		MULTIPLE RESPONSE IS ALLOWED						(12)	(13)		
	Yes	No	Cleft Palate	Spinal befida	Spinal cord injuries	Mental health	Psoriasis					
1	1	2	1	2	3	4	5					
2	1	2	1	2	3	4	5					
3	1	2	1	2	3	4	5					
4	1	2	1	2	3	4	5					
5	1	2	1	2	3	4	5					
6	1	2	1	2	3	4	5					
7	1	2	1	2	3	4	5					
8	1	2	1	2	3	4	5					

	B: ALL PERSONS						C: EDUCATION: ALL PERSONS AGED 4 YEARS AND ABOVE		
No.	**PLACE OF RESIDENCE**	**WHERE RESPONDENT SPENDS MOST OF**	**PLACE OF BIRTH**	**PLACE OF RESIDENCE IN 2011**	**BIRTH CERTIFICATE**	**SURVIVAL OF PARENTS**	**LITERACY**	**EDUCATION ATTAINMENT**	**LEVEL OF EDUCATION**
	Which region/country does [NAME] usually live? WRITE AND SHADE CODE FOR THE REGION AND DISTRICT IF LIVING IN TANZANIA, OR THE COUNTRY CODE FOLLOWED BY "44" IF LIVING OUTSIDE TANZANIA. CODES ARE IN SEPARATE HANDBOOK	Where do you spend most of your time during the day? WRITE AND SHADE REGION AND DISTRICT CODES IF SPENDS MOST OF THE DAY TIME IN TANZANIA OR THE COUNTRY CODE FOLLOWED BY "444" IF OUTSIDE TANZANIA. CODES ARE IN SEPARATE HANDBOOK CODES FOR THE 5th BOX Rural =1 Regional /District Headquarters =2 Other Urban= 3	In which region/country was [NAME] born? WRITE CODE FOR THE REGION AND DISTRICT IF BORN IN THE COUNTRY, OR THE COUNTRY CODE FOLLOWED BY "44" IF BORN OUTSIDE TANZANIA. CODES ARE IN SEPARATE HANDBOOK	Where was [NAME] living in 2011? WRITE AND SHADE CODE FOR THE REGION AND DISTRICT IF LIVING IN THE COUNTRY, OR THE COUNTRY CODE FOLLOWED BY "44" IF LIVING OUTSIDE TANZANIA. FOR CHILDREN AGED '00' IN QUESTION 05 WRITE CODE **'9798'**	Does (NAME) has birth certificate/notification? Yes birth certificate= 1 Yes birth notification= 2 No = 3 Don't Know = 4	Is [NAME]'s Father alive? Is [NAME]'s Mother alive? Yes = 1 No = 2 Don't Know = 3	Can [NAME] read and write a short sentence in Kiswahili, English, Kiswahili and English or any other language? Kiswahili = 1 English = 2 Kiswahili and English = 3 Other Languages = 4 Illiterate = 5	Are you/is [NAME] currently attending, partially attended, completed or never attended school? Now attending =1 Partially attended =2 Completed =3 Never attended =4 IF THE ANSWER IS 'NEVER ATTENDED' SKIP TO SECTION D	What level of education has [NAME] completed or is currently attending? WRITE AND SHADE THE APPROPRIATE CODE. CODES ARE IN SEPARATE HANDBOOK
	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1						Father Mother			
2									
3									
4									
5									
6									

	D: ECONOMIC ACTIVITY: ALL PERSONS AGED 5 YEARS AND ABOVE					E: FEMALES AGED 12 YEARS AND ABOVE				
						CHILDREN EVER BORN			FERTILITY IN LAST 12 MONTHS FOR WOMEN AGED 12 TO 49 YEARS	
No.	ECONOMIC ACTIVITY		EMPLOYMENT STATUS	OCCUPATION	INDUSTRY	How many male/female children were born alive to [NAME] and are now living with you/her in this household? IF SHE IS NOT LIVING WITH ANY OF HER CHILDREN WRITE AND SHADE "00"	How many male/female children were born alive to [NAME] and are now living elsewhere? IF SHE HAS NO CHILDREN LIVING ELSEWHERE WRITE AND SHADE "00"	How many male/female children were born alive to [NAME] and are now unfortunately dead? IF NONE OF HER CHILDREN HAS DIED WRITE AND SHADE "00"	How many male/female children were born alive to [NAME] in the last 12 months (i.e. 26 August 2011 - 25 August 2012)? IF THERE IS NO CHILD BORN ALIVE IN THE LAST 12 MONTHS WRITE AND SHADE "0". DON'T ASK FEMALES AGED 50 YEARS AND ABOVE	How many of the male/female children who were born alive to [NAME] in the last 12 months are still alive? IF THERE IS NO CHILD SURVIVING WRITE AND SHADE "0"
	In the last 12 months, did [NAME] mainly…. Worked for payment, worked without payment, worked for own benefit, not worked but actively seeking for work, available for work but not actively seeking for work, household chores (e.g. cooking), full time student or unable to work/sick/too old/disable WRITE AND SHADE THE APPROPRIATE CODE. CODES ARE IN SEPARATE HANDBOOK	In the week preceding census' night, did [NAME] mainly…. Worked for payment, worked without payment, worked for own benefit, not worked but actively seeking for work, available for work but not actively seeking for work, household chores (e.g. cooking), full time student or unable to work/sick/too old/disable WRITE AND SHADE THE APPROPRIATE CODE. IF CODE GREATER THAN '3' SKIP TO SECTION E CODES ARE IN SEPARATE HANDBOOK	Was [NAME] an employer, employee, own account worker non-agriculture, own account worker agriculture, contributing family worker, or an apprentice in the week preceding the census' night? WRITE AND SHADE THE APPROPRIATE CODE. CODES ARE IN SEPARATE HANDBOOK	What type of work did [NAME] do in the week preceding the census' night? WRITE AND SHADE THE APPROPRIATE CODE. CODES ARE IN SEPARATE HANDBOOK	What is the main activity at [NAME'S] place of work for the week preceding the census' night? WRITE AND SHADE THE APPROPRIATE CODE. CODES ARE IN SEPARATE HANDBOOK					
	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
1						M F	M F	M F	M F	M F
2										
3										
4										
5										
6										
7										
8										

F: GENERAL AND MATERNAL DEATHS IN THE HOUSEHOLD

PLEASE RECORD INFORMATION ON DEATHS THAT OCCURRED IN THE HOUSEHOLD DURING THE LAST 12 MONTHS. DO NOT FORGET CHILDHOOD MORTALITY

(33) Was there any death which occurred in this household during the last 12 months? YES=1 NO=2 ☐ **IF THE ANSWER IS NO, SKIP TO SECTION G**

RECORD THE NUMBER OF DEATHS ☐☐

Death Serial Number	Was the deceased a male or a female? Male =1 Female =2	How old was the deceased at the time of death? WRITE AGE IN COMPLETED YEARS. IF UNDER ONE YEAR WRITE '00" IF 97 YEARS OR ABOVE WRITE '97'	What was the cause of death? Road Accident = 1 Other Injuries = 2 Suicide = 3 Domestic Violence = 4 Sickness/Disease = 5 Martenal Death = 6 Other = 7	**IF DEATH IS OF A WOMAN AGED 12 TO 49 YEARS**		
				Did the death occur during pregnancy? Yes = 1 No = 2 IF THE ANSWER IS YES SKIP TO SECTION G	Did the death occur during childbirth? Yes = 1 No = 2 IF THE ANSWER IS YES SKIP TO SECTION G	Did the death occur during the 6 weeks period following the end of pregnancy, irrespective of the way the pregnancy ended? Yes = 1 No = 2
(34)	(35)	(36)	(37)	(38)	(39)	(40)
1	☐	☐☐	☐	☐	☐	☐
2	☐	☐☐	☐	☐	☐	☐
3	☐	☐☐	☐	☐	☐	☐
4	☐	☐☐	☐	☐	☐	☐
5	☐	☐☐	☐	☐	☐	☐
6	☐	☐☐	☐	☐	☐	☐
7	☐	☐☐	☐	☐	☐	☐
8	☐	☐☐	☐	☐	☐	☐

If number of death is more than 8, use an extra questionnaire ☐

G: HOUSING CONDITIONS AND OWNERSHIP OF ASSETS

What is the ownership status of the main dwelling used by the household? IF THE ANSWER IS CODE 2 OR ABOVE, SKIP TO QUESTION 43		What legal right do you have over the ownership of this land where your house is built?		What are the main roofing materials used for the main building of this household?		What are the main flooring materials used for the main building of this household?		What are the main wall materials used for the main building of this household?	
(41)		(42)		(43)		(44)		(45)	
Owned by household	=1	Title deed	= 1	Iron sheets	=1	Cement	=1	Stones	=1
Lived in without paying any rent	=2	Residential Licence	= 2	Tiles	=2	Ceramic tiles	=2	Cement bricks	=2
Rented privately	=3	Offer	= 3	Concrete	=3	Parquet or Polished wood	=3	Sundried bricks	=3
Rented by employer	=4	Customary ownership	= 4	Asbestos	=4	Terazzo	=4	Baked bricks	=4
Rented by government at a subsidized rent	=5	Contract	= 5	Grass/Leaves	=5	Vinyl or Asphalt strips	=5	Timber	=5
Owned by Employer - Free of charge	=6	Registration (Zanzibar)	= 6	Mud and Leaves	=6	Wood Planks	=6	Timber ana Sheets	=6
Owned by Employer - With rent	=7	No legal right	= 7	Plastics/Box	=7	Palm/Bamboo	=7	Poles and Mud	=7
				Tent	=8	Earth/Sand	=8	Grass	=8
						Dung	=9	Tent	=9
							1-Modern floor		
							0-Non modern floor		
☐		☐		☐		☐		☐	

G: HOUSING CONDITIONS AND OWNERSHIP OF ASSETS

How many rooms are available for sleeping in this household?	What is the main source of drinking water for this household?		What is the main source of energy used by this household for cooking?		What is the main source of energy used by this household for lighting?	
(46)	(47)		(48)		(49)	
RECORD NUMBER OF ROOMS FOR SLEEPING	Piped water into dwelling	=01	Electricity (TANESCO/ZECO)	=01	Electricity (TANESCO/ZECO)	=01
	Piped water in the yard/plot	=02	Solar	=02	Solar	=02
	Public tap/standpipe	=03	Generator/private sources	=03	Generator (private source)	=03
	Tubewell/borehole	=04	Cooking Gas	=04	Gas (Industrial)	=04
	Protected dug well	=05	Gas (Biogas)	=05	Gas (Biogas)	=05
	Unprotected dug well	=06	Electricity (Wind)	=06	Electricity (Wind)	=06
	Protected spring	=07	Paraffin	=07	Acetylene lamp	=07
	Unprotected spring	=08	Coal	=08	Kerosene (lantern/chimney)	=08
	Rainwater collection	=09	Charcoal	=09	Kerosene (Wick lamps)	=09
	Bottled water	=10	Firewood	=10	Candles	=10
	Cart with small tank/drum	=11	Wood/ residuals	=11	Firewood	=11
	Tanker truck	=12	Animal residuals	=12	Torch/Rechargeable lamps	=12
	Surface water (river, dam, lake, pond, stream,charco, canal, irrigation channels)	=13	Not Applicable	=13		
			Improved cooking fuel		Have electricity	
			Non improved cooking fuel		Have no electricity	
	Improved source					
	Non improved source					

G: HOUSING CONDITIONS AND OWNERSHIP OF ASSETS

How many rooms are available for sleeping in this household?	What is the main source of drinking water for this household?		What is the main source of energy used by this household for cooking?		What is the main source of energy used by this household for lighting?	
(46)	(47)		(48)		(49)	
RECORD NUMBER OF ROOMS FOR SLEEPING	Piped water into dwelling	=01	Electricity (TANESCO/ZECO)	=01	Electricity (TANESCO/ZECO)	=01
	Piped water in the yard/plot	=02	Solar	=02	Solar	=02
	Public tap/standpipe	=03	Generator/private sources	=03	Generator (private source)	=03
	Tubewell/borehole	=04	Cooking Gas	=04	Gas (Industrial)	=04
	Protected dug well	=05	Gas (Biogas)	=05	Gas (Biogas)	=05
	Unprotected dug well	=06	Electricity (Wind)	=06	Electricity (Wind)	=06
	Protected spring	=07	Paraffin	=07	Acetylene lamp	=07
	Unprotected spring	=08	Coal	=08	Kerosene (lantern/chimney)	=08
	Rainwater collection	=09	Charcoal	=09	Kerosene (Wick lamps)	=09
	Bottled water	=10	Firewood	=10	Candles	=10
	Cart with small tank/drum	=11	Wood/ residuals	=11	Firewood	=11
	Tanker truck	=12	Animal residuals	=12	Torch/Rechargeable lamps	=12
	Surface water (river, dam, lake, pond, stream,charco, canal, irrigation channels)	=13	Not Applicable	=13		
			Improved cooking fuel		Have electricity	
			Non improved cooking fuel		Have no electricity	
	Improved source					
	Non improved source					

G: HOUSING CONDITIONS

What is the main type of toilet facility used by this household? (50)		How is the household refuse disposed of? (51)		Does your household have/own the following assets? FOR "YES" ANSWER, THESE ASSETS SHOULD BE IN WORKING CONDITION. SHADE THE APPROPRIATE ANSWER FOR EACH ITEM (52)		
					YES	**NO**
Flush/pour flush to piped sewer system	=01	Regularly collected	=1	Radio	1	2
Flush/pour flush to septic tank	=02	Irregularly collected	=2	Telephone (Land Line)	1	2
Flush/pour flush to covered pit	=03	Burnt	=3	Mobile Phone	1	2
Flush/pour flush to somewhere else	=04	Roadside dumping	=4	Bicycle	1	2
Ventilated improved pit (VIP) latrine	=05	Burying/pit	=5	Motor vehicle	1	2
Pit latrine with washable slab and with lid	=06	Other dumping	=6	Motorcycle/Vespa	1	2
Pit latrine with washable slab without lid	=07			Tricycle (Guta)	1	2
Pit latrine with not-washable/ soil slab	=08			Tri motorcycle (Bajaj)	1	2
Pit latrine without slab/ open pit	=09			Television	1	2
Composting/ ecosan latrine	=10			Electric Iron	1	2
Bucket	=11			Charcoal Iron	1	2
No facility/bush/field/ beach	=12			Cooker (Electric or Gas)	1	2
				Refrigerator/Freezer	1	2
Improved 1				Computer /Laptop	1	2
Non improved 0				Internet Facility	1	2
				Plough	1	2
Regarded as sanitation				Power tiller	1	2
				Hand hoe	1	2
				Wheelbarrow	1	2
				Oxen	1	2
				Donkey/Camel	1	2
				House	1	2
				Land/Farm	1	2
				1 At least two items out of the listed assets		
				0 Less than two items from the listed assets		

H: AGRICULTURE AND LIVESTOCK

AGRICULTURE

(53) Has/is any member of this household operated/operating any land for agricultural purposes during 2011/12 agricultural year?

Yes = 1
No = 2

IF THE ANSWER IS NO, SKIP TO QUESTION 55

(54) Which of the following crops did the household grow?

	Yes		No
Maize	1		2
Paddy	1		2
Cassava	1		2
Banana	1		2
Other Crops	1		2

LIVESTOCK

(55) Was any member of this household engaged in raising cattle, goats, sheep or poultry up to the census night?

Yes = 1
No = 2

IF THE ANSWER IS NO, SKIP TO QUESTION 57

(56) How many cattle, goats or sheep were available during the Census night?
IF NO, WRITE AND SHADE CODE "00000"

Cattle					
Goats					
Sheep					
Poultry					

FISH FARMING

(57) Is there any member of this household who is currently engaged in fish farming?

Yes = 1
No = 2

I: CITIZENS IN DIASPORA

58) Is there any person who was a member of this household currently living outside Tanzania? Yes = 1 No = 2
IF THE ANSWER IS NO, SKIP TO SECTION J

	M	F
59) Write the number of males and females living outside Tanzania?		

60) In which country are they living?

CODES ARE IN SEPARATE HANDBOOK

1st HH Member		6th HH Member	
2nd HH Member		7th HH Member	
3rd HH Member		8th HH Member	
4th HH Member		9th HH Member	
5th HH Member		10th HH Member	

IF THE NUMBER OF DIASPORA IS MORE THAN 10, USE EXTRA QUESTIONNAIRE

61) Have you or anyone in this household received remitance in the form of cash or in kind from them during the last 12 months? Yes =1, No =2

1st HH Member		6th HH Member	
2nd HH Member		7th HH Member	
3rd HH Member		8th HH Member	
4th HH Member		9th HH Member	
5th HH Member		10th HH Member	

J: SOCIAL SECURITY FUNDS

62) Is there a person in this household who is a member of the following social security funds?

Yes = 1 No = 2 IF THE ANSWER IS NO, GO TO SECTION H. MULTIPLE RESPONSE IS ALLOWED

		Fund
National Social Security Fund (NSSF)	=1	
Zanzibar Social Security Fund (ZSSF)	=2	
Parastatal Pension Fund (PPF)	=3	
Public Service Pension Fund (PSPF)	=4	
Government Employee Provident Fund (GEPF)	=5	
Local Authority Pension Fund (LAPF)	=6	
National Health Insurance Fund/Community Health Fund (NHIF/CHF)	=7	
Other Fund	=8	

K: TOTAL NUMBER OF PERSONS IN THE HOUSEHOLD

Males

Females

Total

DATE HOUSEHOLD ENUMERATED Day Month

NAME OF SUPERVISOR

DATE OF EDITING QUESTIONNAIRE Day Month