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Department of Economic and Social Affairs Population Division

World Mortality Report 2015



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PREFACE

The World Mortality Report 2015, prepared by the Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat, provides an overview of the patterns, levels, and trends in mortality at the national, regional, and global level during 1950-2015 drawn from the latest set of demographic estimates for 233 countries or areas, as published in *World Population Prospects: The 2015 Revision* (United Nations, 2015a). The analysis focuses on country and regional data for selected mortality indicators. In addition to examining the summary indicator of life expectancy at birth, the report analyses levels and trends in mortality for key age groups in childhood and provides a snapshot of adult and "old age" mortality levels. The report focuses mostly on the period from 1990 to 2015, the implementation period identified for the Millennium Development Goals, and reviews in particular how further improvements in child survival can be achieved by addressing key determinants of inequalities in infant and early childhood mortality in selected lower and middle-income countries. Some implications for the sustainable development goals and targets on health are discussed, including priorities for future reductions in mortality risks.

The mortality estimates presented in this report are available from the Population Division's website as part of the *World Population Prospects: The 2015 Revision* (http://esa.un.org/unpd/wpp/). The annex table 1 provides data in the period from 1950 to 2015 on summary mortality indicators on life expectancy, infant and children, adult, and old ages. This information is presented for the world, for geographic regions and development groups, and for the 201 countries or areas with 90,000 inhabitants or more in 2015. In addition, a comprehensive listing of sources of data relevant for mortality estimation in each country or area is also available online as supplement to this report (see *Mortality Data Inventory 2015*¹)

The Population Division is grateful to the Statistics Division of the United Nations Department of Economic and Social Affairs for its continuing cooperation. The Population Division also acknowledges the assistance and cooperation of the World Health Organization, UNICEF, UNFPA, UNAIDS, Measure DHS, the Human Mortality Database, the International Programs Center of the U.S. Census Bureau, and IPUMS-International as well as national statistical offices in providing some of the data that inform the estimates presented in this report.

For information about the *World Mortality Report 2015*, please contact the Director, Population Division, Department of Economic and Social Affairs, United Nations, New York, NY 10017, USA (email: population@un.org).

¹ United Nations, Department of Economic and Social Affairs, Population Division (2015). World Mortality Report 2015: Mortality Data Inventory 2015 (POP/DB/MORT/2015). Available online at: http://www.un.org/en/development/desa/population/theme/mortality/

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CONTENTS

Pri	EFACE	III
Exr	PLANATORY NOTES	VIII
Exi	ECUTIVE SUMMARY	1
I.	GLOBAL LEVELS AND TRENDS IN MORTALITY	5
	 A. Introduction	5 7 13 19 23 27
II.	DETERMINANTS OF INEQUALITIES IN INFANT AND EARLY CHILDHOOD MORTALITY	29
	A. Introduction	29
	B. Theoretical framework and major hypotheses	31
	C. Data and methods of Analysis.	32
	D. Results	35
	E. Discussion	50
III.	POLICY IMPLICATIONS OF THE SUSTAINABLE DEVELOPMENT GOALS FOR POPULATION HEALTH	53
IV.	References	57
V.	ANNEX TABLES: SUMMARY MORTALITY INDICATORS IN 1950-2015, BY COUNTRY OR AREA	63

TABLES

	in early childhood by area (urban-rural) (12-59 months)
I.9.	Proportional hazard model coefficients and relative risk
	in early childhood (0-59 months) by mother's education.
1.10	List of countries with the most recent DHS survey condu and the number of children analysed in each survey

I.1.	Distribution of the world population by the level of life expectancy at birth, 1950-1955 to 2010-2015	. 7
I.2.	Life expectancy at birth by development group and major area, 1950-1955 and 2005-2015	. 8
I.3.	Life expectancy at birth by sex, by development group and major area, 1950-1955 and 2005-2015	. 12
I.4.	Ten countries and areas with the highest and the lowest life expectancy,	
	by development region, 2010-2015	. 13
I.5.	Under-five mortality rate by development group and major area, 1990-1995 and 2010-2015	. 14
I.6.	Ten countries and areas with the highest and lowest under-five mortality, in 1990-1995 and 2010-2015	. 15
I.7.	Infant mortality rates by development group and major area, 1950-1955 and 2010-2015	. 18
I.8.	Adult mortality rate by sex, development group and major area, 2010-2015	. 20
I.9.	Distribution of the global 15-59 years old population by the level of adult mortality	
	in a person's country or area of residence, 1950-1955 to 2010-2015	. 22
I.10.	Life expectancy at age 60, by sex, development group and major area, 2010-2015	. 24
I.11.	Distribution of the global population aged 60 years or older by the level of life expectancy at age 60	
	in a person's country or area of residence, 1950-1955 to 2010-2015	. 26
II.1.	Background variables and dependent variables	. 34
II.2.	Proportional hazard model coefficients and relative risk of death in	
	early childhood (0-59 months) by household wealth	. 36
II.3.	Proportional hazard model coefficients and relative risk of death	
	in early childhood (0-11) months by household wealth	. 37
II.4.	Proportional hazard model coefficients and relative risk of death	
	in early childhood (12-59 months by household wealth	. 38
II.5.	Proportional hazard model coefficients and relative risk of death	
	in early childhood by region (0-59 months) by household wealth	. 40
II.6.	Proportional hazard model coefficients and relative risk of death	
	in early childhood by region (0-11 months) by household wealth	. 41
II.7.	Proportional hazard model coefficients and relative risk of death	
	in early childhood by (12-59 months) by household wealth	. 42
II.8.	Proportional hazard model coefficients and relative risk of death	
	in early childhood by area (urban-rural) (12-59 months) by household wealth	. 43
II.9.	Proportional hazard model coefficients and relative risk of death	
	in early childhood (0-59 months) by mother's education	. 44
II.10	List of countries with the most recent DHS survey conducted in 2005-2013	
	and the number of children analysed in each survey	. 52

FIGURES

Page

I.1.	Distribution of the world's population by the level of life expectancy at birth	
	for a person's country or area of residence	8
I.2.	Life expectancy at birth by development group, 1950-2015	9
I.3.	Life expectancy at birth by major area, 1950-2015	11
I.4.	Under-five mortality by development group, 1950-2015	16
I.5.	Under-five mortality by major area, 1950-2015	17
I.6.	Infant mortality rate by development group, 1950-2015	18
I.7.	Adult mortality rate (45q15) by sex and region, 2010-2015	21
I.8.	Distribution of the global 15-59 years old population by the level of adult mortality	
	in a person's country or area of residence, 1950-1955 to 2010-2015	22
I.9.	Life expectancy at age 60 by sex and region, 2010-2015	25
I.10.	Distribution of the global population aged 60 years or older by the level of life expectancy at age 60	
	in a person's country or area of residence, 1950-1955 to 2010-2015	26
II.1.	Net relative risk of death by household wealth in childhood (0-59 months) in the world	36
II.2.	Net relative risk of death in infancy in the world (0-11 months), by household wealth, World	37
II.3.	Net relative risk of death in childhood (12-59 months) by household wealth, World	38
II.4.	Net relative risk of death in childhood (0-59 months) by household wealth and by region	39
II.5.	Net relative risk of death (0-59 months) by wealth quintile	45
II.6.	Net relative risk of death (0-59 months) by wealth quintile and by region	46
II.7.	Net relative risk of death (0-59 months) by mother's education	47
II.8.	Net relative risk of death (0-59 months) by mother's education and by region	48
II.9.	Net relative risk of death (0-59 months), tertiary mother's education versus richest quintile	49

EXPLANATORY NOTES

The following symbols have been used in the tables throughout this report:

Two dots (..) indicate that data are not available or are not reported separately. A hyphen (-) indicates that the item is not applicable. A minus sign (-) before a figure indicates a decrease. A full stop (.) is used to indicate decimals. Years given refer to 1 July. Use of a hyphen (-) between years, for example, 1995-2000, signifies the full period involved, from 1 July of the first year to 1 July of the second year.

Numbers and percentages in tables do not necessarily add to totals because of rounding.

References to countries, territories and areas:

The designations employed and the material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory or area or its authorities, or concerning the delimitation of its frontiers or boundaries.

The designation "more developed" and "less developed" regions are intended for statistical purposes and do not express a judgment about the stage reached by a particular country or area in the development process. The term "country" as used in this publication also refers, as appropriate, to territories or areas.

More developed regions comprise all regions of Europe plus Northern America, Australia/New Zealand and Japan. Less developed regions comprise all regions of Africa, Asia (excluding Japan), and Latin America and the Caribbean as well as Melanesia, Micronesia and Polynesia. Countries or areas in the more developed regions are designated as "developed countries". Countries or areas in the less developed regions are designated as "developing countries".

The least developed countries, as defined by the United Nations General Assembly in its resolutions (59/209, 59/210, 60/33, 62/97, 64/L.55, 67/L.43, 64/295) included 48 countries in January 2014: 34 in Africa, 9 in Asia, 4 in Oceania and one in Latin America and the Caribbean. Those 48 countries are: Afghanistan, Angola, Bangladesh, Benin, Bhutan, Burkina Faso, Burundi, Cambodia, Central African Republic, Chad, Comoros, Democratic Republic of the Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Kiribati, Lao People's Democratic Republic, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Myanmar, Nepal, Niger, Rwanda, São Tomé and Príncipe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Sudan, Sudan, Timor-Leste, Togo, Tuvalu, Uganda, United Republic of Tanzania, Vanuatu, Yemen and Zambia. These countries are also included in the less developed regions.

The group denominated "other less developed countries" comprises all countries in the less developed regions minus the least developed countries.

The term "sub-Saharan Africa" is used to designate the countries in Africa that exclude those in Northern Africa.

Countries and areas are grouped geographically into six major areas designated as: Africa; Asia; Europe; Latin America and the Caribbean; Northern America, and Oceania. These major areas are further divided into 21 geographic regions.

The names and composition of geographic areas follow those presented in "Standard country or area codes for statistical use" (ST/ESA/STAT/SER.M/49/Rev.3), available at <u>http://unstats.un.org/unsd/methods/m49/m49.htm</u>.

The following abbreviations/acronyms have been used:

AIDS	Acquired Immunodeficiency Syndrome
DESA	Department of Economic and Social Affairs
HIV	Human Immunodeficiency Virus
IMR	Infant Mortality Rate
MDG	Millennium Development Goals
NCD	Non-Communicable Disease
SAR	Special Administrative Region
SDG	Sustainable Development Goals
U5MR	Under-five Mortality Rate
UNAIDS	Joint United Nations Programme on HIV/AIDS
UNFPA	United Nations Population Fund
UNICEF	United Nations Children's Fund
UNPD	United Nations Population Division
WHA	World Health Assembly
WHO	World Health Organization

CLASSIFICATION OF COUNTRIES BY MAJOR AREA AND REGION OF THE WORLD

Africa				
Eastern Africa	Middle Africa	Northern Africa	Western Africa	
Burundi	Angola	Algeria	Benin	
Comoros	Cameroon	Egypt	Burkina Faso	
Djibouti	Central African Republic	Libyan Arab Jamahiriya	Cabo Verde	
Eritrea	Chad	Morocco	Côte d'Ivoire	
Ethiopia	Congo	Sudan	Gambia	
Kenya	Democratic Republic of the	Tunisia	Ghana	
Madagascar	Congo	Western Sahara	Guinea	
Malawi	Equatorial Guinea		Guinea-Bissau	
Mauritius ²	Gabon	Southern Africa	Liberia	
Mayotte	São Tomé and Príncipe		Mali	
Mozambique		Botswana	Mauritania	
Réunion		Lesotho	Niger	
Rwanda		Namibia	Nigeria	
Seychelles		South Africa	Saint Helena ³ *	
Somalia		Swaziland	Senegal	
South Sudan			Sierra Leone	
Uganda			Togo	
United Republic of Tanzania ⁴				
Zambia				
Zimbabwe				

² Including Agalega, Rodrigues, and Saint Brandon. ³ Including Ascension, and Tristan da Cunha. ⁴ Including Zanzibar.

Asia					
Eastern Asia	South-Central Asia ⁵	South-Eastern Asia	Western Asia		
	Central Asia				
China ⁶	Kazakhstan	Brunei Darussalam	Armenia		
China, Hong Kong SAR ⁷	Kyrgyzstan	Cambodia	Azerbaijan ⁸		
China, Macao SAR ⁹	Tajikistan	Indonesia	Bahrain		
China, Taiwan Province of China Democratic People's	Turkmenistan	Lao People's Democratic	Cyprus ¹⁰		
Republic of Korea	Uzbekistan	Republic	Georgia ¹¹		
Japan		Malaysia ¹²	Iraq		
Mongolia	Southern Asia	Myanmar	Israel		
Republic of Korea		Philippines	Jordan		
	Afghanistan	Singapore	Kuwait		
	Bangladesh	Thailand	Lebanon		
	Bhutan	Timor-Leste	Oman		
	India	Viet Nam	Qatar		
	Iran (Islamic Republic of)		Saudi Arabia		
	Maldives		State of Palestine ¹³		
	Nepal		Syrian Arab Republic		
	Pakistan		Turkey		
	Sri Lanka		United Arab Emirates		
			Yemen		

⁵ The regions Southern Asia and Central Asia are combined into South-Central Asia.

⁶ For statistical purposes, the data for China do not include Hong Kong and Macao, Special Administrative Regions (SAR) of China, and Taiwan Province of China.

<sup>Province of China.
⁷ As of 1 July 1997, Hong Kong became a Special Administrative Region (SAR) of China.
⁸ Including Nagorno-Karabakh.
⁹ As of 20 December 1999, Macao became a Special Administrative Region (SAR) of China.
¹⁰ Including Northern Cyprus.
¹¹ Including Abkhazia and South Ossetia.
¹² Including Sabah and Sarawak.
¹³ Including East Jerusalem.</sup>

Europe

Eastern Europe	Northern Europe	Southern Europe	Western Europe
Belarus	Channel Islands ¹⁴	Albania	Austria
Bulgaria	Denmark	Andorra*	Belgium
Czechia	Estonia	Bosnia and Herzegovina	France
Hungary	Faeroe Islands*	Croatia	Germany
Poland	Finland ¹⁵	Gibraltar*	Liechtenstein*
Republic of Moldova ¹⁶	Iceland	Greece	Luxembourg
Romania	Ireland	Holy See ¹⁷ *	Monaco*
Russian Federation	Isle of Man*	Italy	Netherlands
Slovakia	Latvia	Malta	Switzerland
Ukraine	Lithuania	Montenegro	
	Norway ¹⁸	Portugal	
	Sweden	San Marino*	
	United Kingdom of Great	Serbia ¹⁹	
	Britain and Northern	Slovenia	
	Ireland ²⁰	Spain ²¹	
		The former Yugoslav	
		Republic of Macedonia ²²	

¹⁴ Refers to Guernsey, and Jersey.
¹⁵ Including Åland Islands.
¹⁶ Including Transnistria.
¹⁷ Refers to the Vatican City State.
¹⁸ Including Svalbard and Jan Mayen Islands.
¹⁹ Including Kosovo.
²⁰ Also referred to as United Kingdom.
²¹ Including Canary Islands, Ceuta and Melilla.
²² Also referred to as TFYR Macedonia.

Latin America and the Caribbean

Caribbean	Central America	South America
Anguilla*	Belize	Argentina
Antigua and Barbuda	Costa Rica	Bolivia
Aruba	El Salvador	Brazil
Bahamas	Guatemala	Chile
Barbados	Honduras	Colombia
British Virgin Islands*	Mexico	Ecuador
Caribbean Netherlands* ²³	Nicaragua	Falkland Islands (Malvinas)*
Cayman Islands*	Panama	French Guiana
Cuba		Guyana
Curaçao		Paraguay
Dominica*		Peru
Dominican Republic		Suriname
Grenada		Uruguay
Guadeloupe ²⁴		Venezuela (Bolivarian Rep. of)
Haiti		
Jamaica		
Martinique		
Montserrat*		
Puerto Rico		
Saint Kitts and Nevis*		
Saint Lucia		
Saint Vincent and the		
Grenadines		
Sint Maarten (Dutch part)*		
Trinidad and Tobago		
Turks and Caicos Islands*		
United States Virgin Islands		

 ²³ Refers to Bonaire, Saba and Sint Eustatius.
 ²⁴ Including Saint-Barthélemy and Saint-Martin (French part).

Northern America

Bermuda* Canada Greenland* Saint Pierre and Miquelon* United States of America

Oceania

Australia/New Zealand	Melanesia	Micronesia	Polynesia ²⁵
Australia ²⁶	Fiji	Guam	American Samoa*
New Zealand	New Caledonia	Kiribati	Cook Islands*
	Papua New Guinea	Marshall Islands*	French Polynesia
	Solomon Islands	Micronesia	Niue*
	Vanuatu	(Federated States of)	Samoa
		Nauru*	Tokelau*
		Northern Mariana Islands*	Tonga
		Palau*	Tuvalu*
			Wallis and Futuna Islands*

Sub-Saharan Africa

Angola	Côte d'Ivoire	Guinea-Bissau	Namibia	South Africa
Benin Botswana	Democratic Republic of the Congo	Kenya Lesotho	Niger Nigeria	South Sudan Swaziland
Burkina Faso	Djibouti	Liberia	Réunion	Togo
Burundi	Equatorial Guinea	Madagascar	Rwanda	Uganda
Cameroon	Eritrea	Malawi	Saint Helena	United Republic
Cape Verde	Ethiopia	Mali	São Tomé and Príncipe	of Tanzania
Central African Republic	Gabon	Mauritania	Senegal	Zambia
Chad	Gambia	Mauritius	Seychelles	Zimbabwe
Comoros	Ghana	Mayotte	Sierra Leone	
Congo	Guinea	Mozambique	Somalia	

NOTE: Countries with a population of less than 90,000 in 2015 are indicated by an asterisk (*).

 ²⁵ Including Pitcairn.
 ²⁶ Including Christmas Island, Cocos (Keeling) Islands, and Norfolk Island.

Executive summary

The global increase of living standard, the improvement in health and the consequent reduction in mortality over the last six and a half decades are among the notable achievements of development. Central to this transformation has been the epidemiological transition, from predominantly infectious causes of death to a predominance of deaths due chronic and degenerative diseases. The epidemiological transition entailed a shift in the age pattern of mortality from one in which childhood diseases were more common to a situation where disease and mortality are highly concentrated at older ages, thus the importance of analysing mortality in childhood, adulthood and at old age. The driving force in this transition is socioeconomic development accompanied by investments in public health and education.

Despite this impressive global progress, large disparities remain in levels of mortality across countries and regions. These differentials are the results of uneven progress in development, and reflect inequalities in access to food, safe drinking water, sanitation, medical care and other basic human needs. They also reflect risk factors, behavioural choices and societal contexts that affect the survival of individuals. The reduction of mortality, particularly child and maternal mortality has been a core target of the internationally agreed development goals, such as those contained in the Programme of Action of the International Conference on Population and Development, the United Nations Millennium Declaration and the 2030 Agenda for Sustainable Development (United Nations, 2015b). Accurate estimates of mortality are crucial for assessing progress towards these goals and the health of populations more generally.

"Health is central to development: it is a precondition for, a contributor to, as well as an indicator and an outcome of progress in sustainable development" (WHO, 2012). Over the last several decades, great progress in improving health, nutrition, access to safe water, improved sanitation and standard of living have been accomplished through the world. The Millennium Development Goals (MDGs), especially in respect to mother and child health (goals 4 and 5), but also in reducing the incidence and mortality impact of the HIV/AIDS epidemic, tuberculosis and malaria (goal 6), have contributed to accelerate progress in child survival and contributed to a significant reduction in maternal mortality in many countries. While these achievements have been remarkable, they must be sustainable Development Goals (SDGs) and targets adopted by UN Member States in September 2015 (United Nations, 2015a).

This report, which addresses various aspects of mortality, is primarily based on the results of the 2015 Revision of the World Population Prospects. The first chapter summarizes the patterns, levels and trends in mortality at the national, regional and global level in the period from 1950 to 2015 drawn from the latest set of demographic estimates for the world, major geographic regions and development groups, and for the 201 countries or areas with 90,000 inhabitants or more in 2015, as published in the *World Population Prospects: The 2015 Revision* (United Nations, 2015c). It focuses mostly on the years from 1990 to 2015, the period used for assessing progress toward the Millennium Development Goals (MDGs).

The goal of reducing mortality at the national level as envisioned in the MDGs or the new Sustainable Development Goals (SDGs) requires an attention to existing inequalities in survival, especially for those in the most vulnerable situations. Hence, the second chapter focuses on inequalities in child survival and on how they constrain further improvements in average levels of

child survival. It looks at the disparities in early childhood mortality in 50 low-and middle-income countries (LMICs) using the Demographic and Health Surveys (DHS) conducted between 2005 and 2013. The third chapter discusses the policies and programmes to be implemented to achieve this reduction in mortality. Annex table 1 provides data on summary indicators of mortality and life expectancy for infants, children, adults and older persons from 1950 to 2015, and annex table 2 provides the list of countries with the most recent DHS Surveys conducted during 2005-2013 including the number of children analysed in each survey.

The most recent United Nations country-level mortality estimates for the period 2010-2015, from the *World Populations Prospects: The 2015 Revision* indicate that the number of years that a newborn is expected to live, on average, has increased worldwide by 24 years since 1950, or by about 3.6 years per decade over the past 65 years. Worldwide, 55.1 per cent of world population lives in the period from 2010 to 2015 in countries with life expectancy above 70 years, and 9.6 per cent lives in countries where life expectancy has reached 80 or higher.

Global progress since 1990 has been substantial: child mortality rates, also known as the "underfive mortality rates", 27 have declined at a remarkable pace by about 3% annually. Despite this significant improvement, the ambitious Millennium Development Goal 4 target of a two-thirds reduction in under-five mortality between 1990 and 2015 has not been reached at the global scale, but it contributed greatly to accelerate the reduction of childhood mortality (UN IGME, 2015).

Worldwide, under-five mortality fell by 45 per cent between 1990-1995 and 2010-2015, from 91 deaths per 1,000 live births to 50 deaths per 1,000 live births. In 2010-2015, the probability of dying between birth and age 5 in the less developed regions is 54 per 1,000, more than eight times higher than in the more developed regions, where it stands at 6 per 1,000 live births.

Mortality affecting young and middle-aged adults (that is, between ages 15 and 59) is becoming increasingly preventable through changes in risk behaviours (for example, decline in tobacco use) or through medical intervention (for example, early detection and treatment of cervical cancer and cardiovascular diseases). In 1950-1955, no country had an adult probability of dying between exact ages 15 and 60 years (also called "adult mortality rate", or more informally, "adult mortality") lower than 100 per 1,000, meaning than 10 per cent of those alive at age 15 died before reaching 60. In 2010-2015, 35 per cent of the global adult age population lived in countries with adult mortality lower than 100 per 1,000.

Adult mortality is higher for men than for women in all regions of the world. Overall, the magnitude of the differences in adult mortality risks by sex varies considerably across regions. Overall, Australia/New Zealand, Northern, Southern and Western Europe, as well as Northern America are among the regions with the lowest levels of adult mortality in the world.

The expected number of remaining years of life for those reaching age 60 years has increased steadily since the 1950s, at a pace of about one year per decade. Given the mortality rates prevailing worldwide in 2010-2015, a person aged 60 could expect to live another 20.2 years, compared to 14 years in 1950-1955.

The report analyses the progress and challenges to improving life expectancy at birth by 1) reviewing the levels and trends in key mortality indicators across countries classified by development group and major geographic area; (2) examining the changes in survival prospects at

²⁷ Measured as the number of deaths to children under the age of 5 years per 1,000 live births.

various stages of the life course, including among children, among adults in the reproductive and working ages, and among older persons; (3) reviewing the determinants of inequalities in survival on children under-five years old as to proposing ways to further reduce under-five mortality by addressing socio-economic inequalities in child survival.

KEY FINDINGS

- There has been substantial global progress in life expectancy at birth since the 1950s, albeit with the persistence of significant differences across and within regions.
- From 1950 to 2015, the number of years that a newborn is expected to live, on average, increased worldwide by 24 years, or by about 3.6 years per decade.
- In the past 65 years, all major areas of the world have achieved major increases in life expectancy at birth, but progress in mortality reduction has differed greatly across regions.
- Under-five (or child) mortality rates have declined at the remarkable pace of nearly 3 per cent per year between 1990 and 2015. Child mortality rates are currently about 45 per cent lower than in 1990-1995. However, progress has been uneven: an increasing proportion of child deaths occur in sub-Saharan Africa and Southern Asia.
- While the chances of survival of children have greatly improved recently, differences exist between and within countries.
- Further reductions in under-five mortality will be necessary to achieve the new Sustainable Development Goals (SDGs) by 2030, accelerating the progress registered during the Millennium Development Goals (MDGs) period. In particular, new policies to reduce socio-economic inequalities and to improve the living conditions of the most disadvantaged will be needed.
- Within countries, household wealth is closely associated with the survival of children under five years of age. Differences in survival by household wealth remain even after accounting for other factors, such as age of mother at the birth of the child, length of the mother's previous birth interval, birth order and sex of the child.
- Children from the richest households are more likely to survive through the first five years of life than their counterparts from the poorest households.
- Across the globe, the association between household wealth and child mortality tends to be strongest amongst children who are 1-4 years old, but is also significant during the first year of life.
- Asia, and Latin America and the Caribbean are the regions where the association between household wealth and the risk of child death is most pronounced.
- Aside from household wealth, mother's education is known to have a significant and independent effect on child survival.
- Thus a greater emphasis should be given as part of the 2030 Development Agenda to reduce health inequalities, and to provide universal access to health care services for mothers, children and adolescents—especially among the most vulnerable populations.
- Mortality amongst young and middle-aged adults is increasingly preventable by changing risk behaviours and timely medical interventions. The probability of dying between ages 15 and 60 decreased by 60 per cent between 1950 and 2015, or by about 9 per cent per decade.
- Adult mortality, just like child mortality, is closely linked to the level of development.
- Mortality at the older adult ages has also been improving significantly. Life expectancy at age 60 has been increasing steadily since the 1950s, by about one year per decade
- Adult mortality is typically higher for men than for women in all regions of the world, and across all levels of development. Accordingly, life expectancy at birth for women is almost always higher than for men.
- Further reductions in non-communicable diseases among adults, including for the more developed regions, will require a growing number of countries to scale-up, depending on their respective demographic and health profiles, a range of cost-effective prevention and treatment options both at the individual and collective levels.

I. Global levels and trends in mortality

A. INTRODUCTION

The global increase of living standard, the improvement in health, and the consequent reduction in mortality over the last six and half decades are among the notable achievements of development. This report analyses worldwide mortality declines, according to the *2015 Revision* of *World Population Prospects*. Life expectancy at birth for the world as a whole rose from 46.8 years in 1950-1955 to 70.5 years in 2010-2015. The proportion of the world's population living in countries where life expectancy was below 50 years fell from 57.7 per cent in the early 1950s to 0.1 per cent in 2010-2015, while the share living in countries with life expectancy of 70 years or higher rose from 1 per cent to 55.1 per cent. Over the same period, the probability of dying in early childhood — that is, the number of deaths below age 5 per 1,000 live births — fell from 215.1 per 1,000 to 49.6 per 1,000.

However, large disparities remain in levels of mortality across countries and regions. These differentials are results of uneven progress in development, and reflect inequalities in access to food, safe drinking water, sanitation, medical care and other basic human needs. They also reflect risk factors, behavioural choices and societal contexts that affect the survival of individuals. The reduction of mortality, particularly child and maternal mortality, is a core target of the internationally agreed development goals, such as those contained in the Programme of Action of the International Conference on Population and Development, the United Nations Millennium Declaration and the 2030 Agenda for Sustainable Development. Accurate estimates of mortality are crucial for assessing progress towards these goals and the health of populations more generally.

The improvement in the health of populations and the reduction in mortality over the last six and half decades are among the notable achievements of development. The dominant description of this transformation has been the epidemiological transition, from predominantly infectious causes of death to a predominance of deaths due to chronic and degenerative diseases. This entailed a shift in the age pattern or mortality from one in which childhood diseases are more common to a situation where disease and mortality are concentrated at old age, thus the importance of analysing mortality in childhood, adulthood and at old age. The driving force in the transition is socioeconomic development associated with investments in public health, and education.

The World Mortality Report 2015 presents mortality levels and trends for 201 countries and areas (hereafter referred to as "countries") that had populations of 90,000 or more in 2015. The estimates for individual countries are based upon data collected in each country pertaining to deaths and the population at risk of death, both by age and sex. Such data are collected for national populations through a variety of instruments, including registration systems for vital events, population censuses and sample surveys. The amount and the quality of data available to produce estimates of mortality levels and trends for the entire time span between 1950 and 2015, and for all age groups, vary widely across countries and over time. The most recent sources of

data included for each country or area may be found at http://esa.un.org/unpd/wpp/Excel-Data/data-sources.htm.

Variable degrees of uncertainty are associated with mortality estimates obtained from each of the types of empirical sources. Death registration, for example, varies in quality and completeness across countries and over time. Household surveys also vary in quality and coverage and tend to be much better at producing valid estimates of under-five mortality than of mortality risks at other ages. As a result, information from such surveys often must be supplemented with model age patterns of mortality to generate estimates of mortality risks across the full range of ages.

In order to produce a time series of mortality estimates by age and sex for each country or area, the Population Division uses a variety of techniques to evaluate the data quality and make adjustments where necessary, and to ensure that the estimates are consistent with information on fertility and migration trends, which together shape the size and age structure of a population at any given point in time. The specific methodologies employed, including those used to incorporate information on the mortality impact of the HIV/AIDS epidemic, are described in the report of the Methodology of the United Nations Population Estimates and Projections (United Nations, 2015a). Other approaches to reconcile discrepant information on mortality risks from various data sources to produce consistent time series of mortality estimates across countries and over time have been proposed (for example, GBD 2013 Mortality and Causes of Death Collaborators, 2015). All approaches highlight the wide range of uncertainty that must be understood to accompany the mortality estimates for many countries, particularly those for which empirical data are sparse or widely discrepant. More and higher quality mortality surveys could help to reduce that uncertainty in the future, but ultimately systems of civil registration and vital statistics must be improved to provide each country with valid measurements of the ageand sex-specific mortality risks in their populations (United Nations, 2014).

B. LIFE EXPECTANCY AT BIRTH

The level of life expectancy at birth summaries mortality levels of a population at all ages for a given time period (Table A1). The measure describes the average length of time that a person born in that period would live if he or she experienced the age-specific mortality rates of that period throughout his or her lifetime. It provides a useful description of mortality that is independent from the age structure of population, and is therefore comparable across populations and over time periods.

1. Distribution of world population by the level of life expectancy

Table I.1 and Figure I.1 show the changing proportions of world population according to the level of life expectancy at birth since 1950, as assessed in *World Population Prospects: The 2015 Revision*. In 1950-1955, 71.9 per cent of the world population lived in countries where life expectancy at birth was lower than 60 years. By 2010-2015, only 8.5 per cent of the world population lived in countries with life expectancy below 60.

At the other end of the spectrum, in 1950-1955 only a few countries had a level of life expectancy at birth greater than 70 years, and only 1 per cent of the world population lived in such countries. In 2010-2015, 55.1 per cent of world population lived in countries with life expectancy above 70 years; and for 9.6 per cent of the global population life expectancy has reached 80 or higher.

Life expectancy	Population by the level of life expectancy at birth (in years)						
at birth	1950-1955	1960-1965	1970-1975	1980-1985	1990-1995	2000-2005	2010-2015
To	otal population	n (in billion)					
Under 40	0.642	0.138	0.049	0.006	0.010	0.000	0.000
40-49	0.882	1.552	0.902	0.299	0.343	0.269	0.008
50-59	0.374	0.389	0.541	1.256	1.191	0.463	0.602
60-69	0.718	0.692	1.540	2.132	2.568	2.271	2.598
70-79	0.025	0.398	0.839	0.953	1.409	3.092	3.245
Over 80	0.000	0.000	0.000	0.000	0.000	0.227	0.687
	Percentage of	listribution					
Under 40	24.3	4.3	1.3	0.1	0.2	0.0	0.0
40-49	33.4	49.0	23.3	6.4	6.2	4.3	0.1
50-59	14.2	12.3	14.0	27.0	21.6	7.3	8.4
60-69	27.2	21.8	39.8	45.9	46.5	35.9	36.4
70-79	1.0	12.6	21.7	20.5	25.5	48.9	45.5
Over 80	0.0	0.0	0.0	0.0	0.0	3.6	9.6

Table I.1.Distribution of the world population by the level of life expectancy at birth for a person's country or
area of residence, 1950-1955 to 2010-2015



Figure I.1. Distribution of the world's population by the level of life expectancy at birth for a person's country or area of residence, 1950-1955 to 2010-2015

2. Trends in life expectancy for development groups and major areas

In 1950-1955, average life expectancy for the world was 46.8 years (table I.2). In the developing world, the decline of mortality from high levels had just begun. The least developed countries had life expectancy of only 36.1 years, while the other less developed countries' life expectancy was higher at 42.3 years. In the more developed countries, the decline of mortality had taken place long before 1950, and life expectancy had reached an average level of 64.7 years, 23.2 years higher than the level for the less developed regions as a whole. For the world's major areas, life expectancy ranged from a low of 37.3 years in Africa to a high of 68.6 years in Northern America.

		·s)		
Development group or major area	1950-1955	2010-2015	Absolute change	Percentage change
World	46.8	70.5	23.7	50.6
More developed regions	64.7	78.3	13.6	21.1
Less developed regions	41.5	68.8	27.2	65.6
Least developed countries	36.1	62.2	26.0	72.0
Other less developed countries	42.3	70.2	27.9	65.8
High-income countries	64.0	78.8	14.8	23.2
Middle-income countries	42.4	69.5	27.2	64.2
Low-income countries	35.0	60.3	25.3	72.4

Table I.2. Life expectancy at birth by development and income group and region, 1950-1955 and 2005-2015

	Life expectancy at birth (years)				
Development group or major area	1950-1955	2010-2015	Absolute change	Percentage change	
Africa	37.3	59.5	22.2	59.4	
Asia	42.1	71.6	29.5	70.0	
Europe	63.6	77.0	13.4	21.1	
Latin America and the Caribbean	51.2	74.5	23.3	45.6	
Northern America	68.6	79.2	10.6	15.4	
Oceania	60.4	77.5	17.0	28.2	

Since 1950, all regions of the world have achieved major increases in life expectancy (figure I.2). The world as a whole gained an additional 23.6 years of life expectancy (50.6 per cent) since the early 1950s (table I.2), reaching a level of 70.5 years in 2010-2015. During this same period, the less developed regions gained 27.3 years (65.6 per cent) of life expectancy, bigger than the world's average. In the more developed regions, gains were smaller at 13.6 years (21.1 percent) of life expectancy, because large reductions in child mortality, which have a larger impact than changes in adult mortality on overall life expectancy change, had already occurred by 1950 in those regions.



Figure I.2. Life expectancy at birth by development group, 1950-2015

In this report, countries and areas are also categorised into high-income, middle-income, and low-income countries that are defined by the World Bank. The major difference between the least developed and the low-income countries is that, some populous countries have life expectancy higher than the average of the least developed countries, such as Bangladesh and Myanmar, but are not categorised in the low-income countries. As a result, the levels of life expectancy of low-income countries are lower than that of the least developed countries. Similarly, the major difference between the more developed regions and the high-income countries is that, some populous countries and areas have life expectancy higher than the average of the more developed regions, such as the Republic of Korea, Taiwan province of China, Hong Kong SAR of China, and Singapore, are categorised in the high-income countries. As a consequence, the levels of life expectancy of the high-income countries are higher than that of the more developed regions, in recent years. The differences between the middle-income countries and the other less developed regions, and between other mortality measures such as child mortality, could be explained as combinations of the two major differences discussed above.

The difference in life expectancy between the less developed regions and the more developed regions reduced from 23.2 years in 1950-1955 to 9.6 years in 2010-2015, indicating mortality declines in the former were faster than in the latter. Progress in the least developed countries, which saw a gain of 26 years, however, were less than in the other less developed countries, where life expectancy increased by 27.8 years. As a result, the life expectancy gap between the least developed countries and the other less developed countries widened from 6.2 years to 8.0 years.

Among the major areas, progress in mortality reduction has differed greatly (figure I.3). Asia, and Latin America and the Caribbean experienced steady increases in life expectancy throughout the second half of the twentieth century. Latin America and the Caribbean had the highest life expectancy among large developed regions throughout this period, rising from 51.2 years in 1950-1955 to 74.6 years in 2010-2015 (table I.2). But the largest increase in life expectancy among regions occurred in Asia, rising from 42.1 years in 1950-1955 to 71.6 years in 2010-2015, that is a gain of about 30 years. In Africa (figure I.3), however, life expectancy increased from the 1950s until the early 1980s, but this progress slowed down between the late 1980s and all through the 1990s, mainly because of the HIV/AIDS epidemic. There have been indications in more recent years that the worst part of the epidemic has passed, with the estimated level of life expectancy at birth for the continent reaching 59.5 years in 2010-2015.





Within the more developed regions, trends for Northern America and Europe have diverged since the early 1970s. The two major areas had nearly equal life expectancy in 1965-1970, 70.5 and 70.0 years, respectively. After 1970, Northern America experienced subsequently increase of life expectancy, reaching 79.2 years in 2010-2015. Europe, on the other hand, reached a 77.0 years life expectancy in 2010-2015. The difference was mainly a result of declines in life expectancy in some Eastern European countries.

3. Sex differences in life expectancy

In all development groups and regions, women live longer than men (table I.3). Worldwide, women lived on average, 4.5 years longer than men in 2010-2015. This "female advantage" in life expectancy means that life expectancy for women globally was 6.5 per cent higher than that for men. The female advantage- the difference of life expectancy between sexes was largest in the more developed regions where women live 6.4 years (or 8.5 per cent) longer than men in 2010-2015. In the less developed regions, women's life expectancy was 3.7 years (or 5.6 per cent) higher than men's in the same period. The difference by sex is the smallest in the least developed countries, at 2.9 years (or 4.7 per cent) greater for women compared to men. In all development groups, the sex gap in life expectancy has grown since 1950-1955. This change has been larger in the less developed regions, where the sex difference in life expectancy was 1.9 years in 1950-1955, and 3.7 years in 2010-2015.

	Life expectancy at birth (years)								
	1950-1955					2010-2015			
Development group or major area	Male	Female	Percentage difference	Absolute difference - years (female - male)	Male	Female	Percentage difference	Absolute difference - years (female - male)	
World	45.4	48.3	6.5	3.0	68.3	72.7	6.5	4.5	
More developed regions	62.1	67.2	8.2	5.1	75.1	81.5	8.5	6.4	
Less developed regions	40.6	42.5	4.6	1.9	66.9	70.7	5.6	3.7	
Least developed countries	35.0	37.4	6.9	2.4	60.7	63.6	4.7	2.9	
Other less developed countries	41.5	43.3	4.3	1.8	68.3	72.1	5.6	3.8	
Africa	36.2	38.5	6.5	2.3	58.2	60.9	4.7	2.7	
Asia	41.3	43.0	4.1	1.7	69.7	73.6	5.5	3.8	
Europe	60.9	66.1	8.5	5.2	73.4	80.6	9.7	7.1	
Latin America and the Caribbean	49.5	53.0	6.9	3.4	71.2	77.9	9.4	6.7	
Northern America	65.8	71.7	8.9	5.8	76.8	81.5	6.1	4.7	
Oceania	58.1	63.1	8.5	4.9	75.3	79.7	5.9	4.4	

Table I.3.Life expectancy at birth by sex, by development group and major area, 1950-1955and 2005-2015

Among the world's regions, the sex difference in life expectancy in 2010-2015 ranged from 2.7 years (or 4.7 per cent) in Africa to 7.1 years (or 9.7 per cent) in Europe. In the more developed regions, the sex gap was bigger in Europe (7.1 years or 11.3 per cent) than in Northern America (4.7 years or 6.1 per cent) largely due to a wider sex difference in Eastern Europe compared to other European regions. Latin America and the Caribbean had the largest female advantage in life expectancy (6.7 years or 9.4 per cent) among the major areas in the less developed regions. The relatively small female advantage in Africa in 2010-2015 is mainly a consequence of the differential impact of the HIV/AIDS epidemic on mortality levels by sex, with HIV prevalence estimated to be higher among women than among men.

4. Countries with the highest and lowest life expectancies

Table I.4 shows the countries with the highest and the lowest life expectancies at birth in different periods. The ten countries with the highest life expectancies in the current period, in 2010-2015, had life expectancy of 81.6 or higher for both sexes combined. All of these countries are located in the more developed regions. Presently, Japan had the highest life expectancy in the world, at 83.3 years for 2010-2015.

The ten countries with lowest life expectancies in 2010-2015 had values ranging from 49.2 to 54.7 years. While these levels of life expectancy are some 20 years higher than the lowest values found in the 1950s, they are more than 20 years lower than the highest life expectancy levels found in the current period. Most of the countries in the list of lowest life expectancies are affected by challenges such as HIV/AIDS or conflict.

Dank	Country or grea	Life expectancy	Pank	Country or grad	Life expectancy
Кипк	Country of area	(years)	Καπκ	Country of area	(years)
		A. More devel	oped region	S	
	Highest life expectancy at birth			Lowest life expectancy at b	irth
1.	Japan	83.3	1.	Russian Federation	69.8
2.	Italy	82.8	2.	Ukraine	70.7
3.	Switzerland	82.7	3.	Belarus	71.1
4.	Iceland	82.3	4.	Republic of Moldova	71.3
5.	Spain	82.3	5.	Lithuania	73.1
6.	Australia	82.1	6.	Latvia	73.9
7.	Sweden	81.9	7.	Bulgaria	74.0
8.	France	81.8	8.	Romania	74.5
9.	Canada	81.8	9.	Serbia	74.6
10.	New Zealand	81.6	10.	Hungary	75.0
		B. Less devel	oped regions		
	Highest life expectancy at l	birth		Lowest life expectancy at b	irth
1.	China, Hong Kong SAR	83.7	1.	Swaziland	49.2
2.	Singapore	82.6	2.	Lesotho	49.5
3.	Israel	82.1	3.	Central African Republic	49.5
4.	Republic of Korea	81.4	4.	Sierra Leone	50.2
5.	Martinique	81.2	5.	Côte d'Ivoire	51.0
6.	Chile	81.2	6.	Chad	51.1
7.	Guadeloupe	80.5	7.	Angola	51.7
8.	China, Macao SAR	80.3	8.	Nigeria	52.3
	United States Virgin				
9.	Islands	80.0	<i>9</i> .	Mozambique	54.6
10.	Cyprus	79.9	10.	Guinea-Bissau	54.7

Table I.4.Ten countries and areas with the highest and ten countries and areas with the lowest life expectancy at
birth, by development region, 2010-2015

C. CHILD MORTALITY

Infant mortality is measured as the probability of dying between birth and age 1, while underfive mortality is measured as the probability of dying between birth and age 5. Both measures are important to reflect children's well-being and socioeconomic development. Under-five mortality, in particular, is a closely monitored public health indicator and its reduction by two-thirds between 1990 and 2015 is the central target of Millennium Development Goal 4 of the United Nations Millennium Declaration. More recently, in the 2030 agenda for sustainable development just adopted, the second target of Goal 3 is to reduce under-five mortality to at least as low as 25 per 1,000 live births by 2030.

1. Under-five mortality

Estimates of under-five mortality for the world, development groups and major areas are provided in table I.5 for 1990-1995 and 2010-2015, and for all countries or areas in table A2. Worldwide, under-five mortality fell by 45 per cent between 1990-1995 and 2010-2015, dropping from 91 deaths per 1,000 live births to 50 deaths per 1,000 live births. In 2010-2015, the probability of dying between birth and age 5 in the less developed regions was 54 per 1,000, which is more than nine times as high as in the more developed regions, where it was only 6 per 1,000. During the most recent period, the least developed countries experienced a higher level of under-five mortality, 86 per 1,000 live births. Among other countries of the less developed countries, the risk of dying before age five was 45 per 1,000 live births, slightly more than half the level of the least developed countries,. Within the less developed regions, Asia has experienced the most rapid reduction in child mortality which fell by around 53 per cent between 1990-1995 and 2010-2015. The pace of decline in under-five mortality was slower, just under 32 per cent in Oceania. Africa experienced an intermediate pace of decline with the under-five mortality rate falling by 46 per cent between 1990-1995 and 2010-2015.

	Under-five (deaths un per 1,000 l - Both sexes	mortality der age 5 ive births) combined -	Absolute change	Percentage change
Development group or major area	1990-1995	2010-2015	1990-1995 to 2010-2015	
World	91	50	41	45
More developed regions	13	6	7	51
Less developed regions	100	54	45	46
Least developed countries	172	86	87	50
Other less developed countries	83	45	38	46
Africa	167	90	77	46
Asia	83	39	44	53
Europe	15	6	9	58
Latin America and the Caribbean	49	26	23	47
Northern America	10	7	3	34
Oceania	38	26	12	32

Table I.5. Under-five mortality rate by development group and major area, 1990-1995 and 2010-2015

Table I.6 indicates the countries with the highest and the lowest under-five mortality in different periods. The ten countries and areas with lowest under-five mortality in 2010-2015 had values ranging from 2.0 to 3.3 deaths per 1000 births. All of these countries and areas are in the more developed regions. The ten countries with the highest under-five mortality in the current period, 2010-2015, had under-five mortality of 122.2 deaths per 1000 births or higher for both sexes combined. Except Nigeria, all of these countries are least developed countries.

		Under-five mortality			Under-five mortality
Rank	Country or area	(per 1000)	Rank	Country or area	(per 1000)
			1000 1005		
	Highest under-five		1990-1995	Lowest under-five	
	mortality			mortality	
1.	Rwanda	466.4	1.	Singapore	5.8
2.	Niger	293.2	2.	Iceland	5.9
3.	Sierra Leone	272.8	3.	Finland	6.1
4.	Angola	253.4	4.	Japan	6.1
5.	Mali	246.3	5.	Sweden	6.3
6.	Liberia	233.6	6.	China, Hong Kong SAR	6.9
7.	Mozambique	228.7	7.	Norway	7.3
8.	Somalia	221.9	8.	Switzerland	7.5
9.	South Sudan	219.5	9.	Netherlands	7.6
10.	Guinea	215.9	10.	Canada	7.6
			2010-2015		
	Highest under-five	-	2010-2015	Lowest under-five	
	mortality			mortality	
1	Angola	155 7	1	Luxambourg	2.0
1. 2	Chad	155.0	1.	Luxembourg	2.0
2. 2	Cuince Pissen	155.0	2.	China Hong Kong SAP	2.5
3. 1	Control African Dopublic	151.0	J. 1	Leoland	2.0
4. 5	Sierra Laona	130.7	4.	Itela	2.0
5.	Sierra Leone	134.2	J.	Tialy	2.7
0. 7	Somana Dumm di	131.2	0. 7	Fillianu	2.9
/. 0	Durunun Mali	123.2	/. o	Inorway	3.0
0. 0	Iviali South Sudan	122.5	ð. 0	Japan Czash Popublic	3.0 2.1
9. 10	Nigoria	122.3	<i>9</i> .	Czech Republic Swadan	3.1
10.	Nigeria	122.2	10.	Sweden	3.3

Table I.6. Ten countries and areas with the highest and lowest under-five mortality, in 1990-1995 and 2010-2015

Looking back at the longer period 1950-2015, worldwide under-five mortality fell by 77 per cent. The more developed regions experienced the fastest decline (92 per cent); while in the least developed countries the decline was the slowest, about 73 per cent (figure 1.4). The overall level and trend worldwide as shown on Figure I.4 for the world is more similar to that of the other less developed regions, indicating that the childhood deaths of the latter are more than that of the more developed regions and the least developed countries. Between 1950-1995 and 2010-2015, the biggest decline in childhood deaths was in the other less developed regions (57.4 million), followed by more developed regions (6.8 million), and the least developed countries (2.8 million).



Figure I.4. Under-five mortality by development group, 1950-2015

Within the regions in 1950-2015 (figure I.5), the decline in under-five mortality in Europe was the most rapid (93 per cent), followed by Latin America and the Caribbean (86 per cent), Asia (84 per cent), North America (82 per cent), Oceania (72 per cent); and Africa (71 per cent). Between 1950-1955 and 2010-2015, the biggest decline of childhood deaths, however, was not in Europe but Asia (55.8 million), followed by Latin America and the Caribbean (5.7 million), Europe (5.3 million), North America (0.7 million), and Oceania (0.1 million). Despite the decline (71 per cent) in under-five mortality accompanied by a decline in average number of children per woman (29 per cent) from 6.6 to 4.7, in Africa the number of childhood deaths increased by 0.5 million due to population growth and the increase in the total number of births during this period.

Figure I.5 Under-five mortality by major area, 1950-2015



Worldwide, the average annual rate of decline in under-five mortality is 2.5 per cent between 1950 and 2015. While since 1990-2015, this rate raised to 3.0 per cent. The ambitious Millennium Development Goal 4 target of a two-thirds reduction in under-five mortality between 1990 and 2015 has not been reached at the global scale, it remarkably accelerated the reduction of childhood mortality.

2. Infant mortality

Infant mortality rate (IMR) refers to the deaths before age 1 per 1,000 births (see table A3 for estimates for all countries or areas). For the world as a whole, the IMR fell from 142 in 1950-1955 to 36 in 2010-2015, a reduction of 75 per cent (table I.7 and figure I.6).

Infant survival in the less developed regions lags behind the situation observed in more developed regions, and the chances of surviving to the first birthday are especially low in the least developed countries. In the more developed regions, IMR fell from 60 per 1,000 births in 1950-1955 to 5 per 1,000 births in 2010-2015, a decline of 91 per cent, while in the less developed regions IMR declined by 76 per cent, from 161 to 39. Progress was the slowest in the least developed countries where the IMR fell from 203 per 1,000 births in 1950-1955 to 57 per 1,000 births in 2010-2015, a decline of 72 per cent.

	Infant mortality rate (infant deaths per 1,000 live births) - Both sexes combined -		Absolute change	Percentage change
Development group or major area	1950-1955	2010-2015		
World	142	36	106	75
More developed regions	60	5	54	91
Less developed regions	161	39	122	76
Least developed countries	203	57	146	72
Other less developed countries	155	33	122	78
Africa	187	59	128	69
Asia	157	31	126	80
Europe	72	5	67	93
Latin America and the Caribbean	127	20	107	84
Northern America	31	6	25	81
Oceania	60	20	40	66

Table I.7.Infant mortality rates by development group and major area, 1950-1955 and 2010-2015

Figure I.6. Infant mortality rate by development group, 1950-2015



Of the world's regions, Africa has seen the slowest progress in lowering infant mortality (figure I.6), with a decline of 69 per cent between 1950-1955 and 2010-2015, compared to 75 per cent for the world. In Africa, an estimated 59 out of 1,000 babies born during 2010-2015 will die

before their first birthdays. Asia achieved an 80 per cent reduction in infant mortality since 1950-1955 and the progress is expected to continue. Among the less developed regions, Latin America and the Caribbean had the lowest IMR, falling from 127 in 1950-1955 to 20 in 2010-2015. In Europe and Northern America, IMR was the lowest, below 7 in 2010-2015.

D. ADULT MORTALITY

Following the decline of child mortality, the importance of mortality at adult ages (15 to 59 years) is increasing. Although death registration systems in some countries shed light on the risks of mortality experienced at various ages, valid measures of adult mortality are not yet available throughout many countries of the less developed regions where such systems are not yet in place. When possible, other sources of information have been incorporated, such as mortality rates estimated from surveys and censuses. Despite these efforts, for several developing countries, the levels and trends of adult mortality described in this report are derived from child mortality and a model life table age pattern of mortality, rather than an empirical observation of adult deaths and populations. Therefore, many of the regional trends and differences in adult mortality mirror closely those described for childhood mortality. With this in mind, the discussion below is focused on regional patterns in the levels of adult mortality estimated for the most recent period, 2010-2015.

1. Mortality between ages 15 and 59

To assess adult mortality, this report uses the probability of dying between exact ages 15 and 60 years, denoted as $_{45}q_{15}$ (see estimates for all countries or areas in table A4). In 2010-2015 the value of $_{45}q_{15}$ for the world (both sexes combined) is estimated at 153, indicating that 153 out of 1,000 15-year-olds were expected to die before age 60. This measure is particularly relevant for health policy in that it captures the risks of mortality affecting young and middle-aged adults, most of whose deaths are considered to be "preventable", such as through changes in risk behaviours (for example, tobacco use) or through medical intervention (for example, early detection and treatment of cervical cancer).

Just as child survival is highly correlated with the level of development, so is adult mortality. In the less developed regions, the risk of dying between ages 15 and 60 has been much higher than in the more developed regions. In 2010-2015, the probability that a 15-years–old in the less developed regions died before age 60 was 161 per 1,000 (table I.8), which was 30 per cent higher than in the more developed regions, where the risk of dying between ages 15 and 60 was 112 per 1,000. The least developed countries are particularly disadvantaged in terms of adult survival, with 240 per 1,000, or 24 per cent of 15-year-olds estimated to die before age 60.

Among the more developed regions, ${}_{45}q_{15}$ in 2010-2015 stood at 102 per 1,000 in Northern America and 126 per 1,000 in Europe. Notably, despite the relatively high level of development, the level of ${}_{45}q_{15}$ in Europe was only slightly below the levels in Asia and Latin America and the Caribbean (136 per 1,000 and 138 per 1,000, respectively). The European average was pulled downward by the relatively high adult mortality in Eastern Europe, especially among men. Among the less developed regions, Africa had the highest level of adult mortality, with a ${}_{45}q_{15}$ of
285 per 1,000 in 2010-2015. In some countries, the HIV/AIDS epidemic stalled or reversed progress in adult survival, pushing up the average ${}_{45}q_{15}$ for the region.

	Probability of dying between age 15 and 60 (45q15) (deaths under age 60 per 1,000 alive at age 15)			
Development group or major area	Both sexes	Male	Female	Ratio Male/ Female
World	153	182	122	1.5
More developed regions	112	152	72	2.1
Less developed regions	161	188	133	1.4
Least developed countries	240	263	217	1.2
Other less developed countries	151	178	121	1.5
Africa	285	308	263	1.2
Asia	136	163	108	1.5
Europe	126	176	75	2.3
Latin America and the Caribbean	138	180	95	1.9
Northern America	102	127	76	1.7
Oceania	103	123	83	1.5

 Table I.8.
 Adult mortality rate^{*} by sex, development group, and major area, 2010-2015

Conditional probability of dying between exact ages 15 and 60 years.

2. Sex differences in adult mortality

At the world level the male-to-female ratio of ${}_{45}q_{15}$ was 1.5 in 2010-2015 (table 1.8), meaning that men were 50 per cent more likely to die between the ages of 15 and 60 than women. In the more developed regions, particularly in Europe, men were more than twice as likely to die between these ages. Among the less developed regions, the sex differential in ${}_{45}q_{15}$ in Latin America and the Caribbean (1.9 in 2010-2015) was wider than the differentials in other major areas. In Asia and Africa, the male-to-female ratios in ${}_{45}q_{15}$ were estimated to be substantially lower, at 1.2 for Asia and 1.2 for Africa in 2010-2015. HIV/AIDS reduced women's survival advantage in Africa, where more women than men were estimated to have HIV, and was largely responsible for the relatively low sex ratio in adult mortality in the region.

The assessment of sex differences in ${}_{45}q_{15}$ across major areas can mask even greater heterogeneity that exists across smaller geographic regions. To shed light on that variability, figure 1.7 presents adult mortality rates by sex for the 21 regions of the world in 2010-2015. The highest levels of adult mortality for both males and females were estimated to occur in the four regions that constitute sub-Saharan Africa (Eastern, Middle, Southern and Western Africa). Southern Africa had the highest adult mortality levels in the world, where 462 and 412 per 1,000 men and women, respectively, were expected to die between the ages of 15 and 60. Southern Africa is also the region of the world most affected by HIV/AIDS, which has amplified adult mortality risks in the region. Across Africa's five regions, Northern Africa had the lowest levels of adult mortality, with ${}_{45}q_{15}$ estimated at 175 and 117 per 1,000, respectively, for males and females. At the opposite end of the spectrum, Australia and New Zealand, Northern, Southern and Western Europe, as well as Northern America were among the regions with the lowest levels of adult mortality in the world. As noted above, the European average was heavily influenced by relatively high adult mortality in Eastern Europe, where $_{45}q_{15}$ for both sexes combined stood at 197 per 1,000 in 2010-2015 (data not shown), higher than the average for less developed regions.

Male adult mortality was higher than female adult mortality in all regions of the world. Overall, the magnitude in the differences in adult mortality by sex varied considerably across regions. Within the more developed regions, males in Eastern Europe had exceptionally high adult mortality, at the level of 285 per 1,000. As a consequence, Eastern Europe had the largest sex differential in adult mortality of any world region, with a male-to-female ratio of 2.6. Southern Europe was the only other region with a male-to-female ratio above 2, though unlike Eastern Europe where the high ratio resulted from male mortality that was exceptionally high, Southern Europe's high ratio was attributable mainly to relatively low female mortality.



Figure I.7. Adult mortality rate (45q15) by sex and region^{*}, 2010-2015

* Sorted by the level of mortality for both sexes combined.

3. Distribution of adult age population by the level of adult mortality

Table I.9 and Figure I.8 indicates the changing proportions of the world's population in adult ages according to the level of adult mortality since 1950. In 1950-1955, no country had an adult mortality lower than 100. In 2010-2015, 35 per cent of adult age population lived in countries with adult mortality lower than 100.

Population by the level of adult mortality (45q15) per 1,000 alive at age 15							
Adult mortality	1950-1955	1960-1965	1970-1975	1980-1985	1990-1995	2000-2005	2010-2015
To	otal population	n (in billion)					
Under 100	0.000	0.000	0.000	0.074	0.215	0.409	1.500
100-149	0.016	0.156	0.264	0.421	1.138	1.401	0.861
150-249	0.497	0.461	0.992	1.336	0.835	1.360	1.570
250-349	0.173	0.275	0.571	0.496	0.722	0.256	0.205
350-449	0.118	0.088	0.136	0.157	0.148	0.142	0.168
Over 450	0.652	0.682	0.033	0.006	0.024	0.104	0.009
	Percentage of	listribution					
Under 100	0.0	0.0	0.0	3.0	7.0	11.1	34.8
100-149	1.1	9.4	13.2	16.9	36.9	38.1	20.0
150-249	34.1	27.8	49.7	53.6	27.1	37.0	36.4
250-349	11.9	16.5	28.6	19.9	23.4	7.0	4.8
350-449	8.1	5.3	6.8	6.3	4.8	3.9	3.9
Over 450	44.8	41.0	1.6	0.2	0.8	2.8	0.2

Table I.9.Distribution of the global 15-59 years old population by the level of adult mortality in a person's
country or area of residence, 1950-1955 to 2010-2015





At the other end of the spectrum, in 1950-1955 45 per cent of adult age population lived in countries where adult mortality was 450 and higher. In 2010-2015, the proportion of adult age population living in countries with adult mortality higher than 450 had reduced to 0.2 per cent. This decline was significant, but not smooth. As can be seen in figure I.8, the proportion of adult age population living in countries with adult mortality higher than 450 increased in the 1990s.

More specifically, in 1980-1985 only 4 countries had an adult mortality higher than 450: Eritrea, Timor-Leste, South Sudan, and Sierra Leone. In 2000-2005, however, the number of countries with an adult mortality higher than 450 increased to 14; and all these countries are in Sub-Saharan Africa: Zimbabwe, Lesotho, Botswana, Swaziland, Malawi, Zambia, South Africa, Central African Republic, Sierra Leone, Namibia, Uganda, Kenya, Côte d'Ivoire, and the United Republic of Tanzania. This increase was mainly the consequence of the HIV/AIDS epidemic.

E. OLD AGE MORTALITY

As mortality at childhood and adult ages declines, the proportion of deaths at old ages (60 and over) naturally increases. Thus, it is important to better understand the mortality levels and patterns at old ages, which is measured by the life expectancy at age 60 in this report (see estimates for all countries or areas in table A6). To accurately calculate life expectancy at age 60, death rates at ages older than 60 are needed. Unfortunately, death registrations by age are unavailable in many countries in the less developed regions. Moreover, surveys that collect information on old-age deaths are rare. For many countries in the less developed regions, the levels and trends of life expectancy at age 60 in this report are derived from child mortality, and sometimes combined with adult mortality as well, according to a model life table age pattern of mortality. For this reason, the discussion below is focused on regional patterns in the levels of old-age mortality estimated for the most recent period, 2010-2015.

1. Life expectancy at age 60

Life expectancy at age 60, denoted as e_{60} , indicates the average number of additional years one is expected to live once having reached age 60. In 2010-2015, e_{60} is estimated at 20.2 years for the world (table I.10), indicating that given the mortality rates prevailing over that period, on average, a person aged 60 could expect to live another 20.2 years, to reach age 80.2.

Differences by sex or location in survival at more advanced ages, after age 60, follow a pattern that is similar to the differences observed at younger ages. In the less developed regions, persons aged 60 in 2010-2015 are estimated to have, on average, an additional 18.9 years to live, compared to 22.8 years in the more developed regions. Older people in the least developed countries are the most disadvantaged in terms of survival, with 60-year-olds expected to live an average of 17.3 additional years. In Africa, survival prospects at older ages lag behind those of other regions: with an e_{60} of 16.7 years, 60-year olds in Africa have 7 fewer years of life remaining relative to their peers in Oceania, where an e_{60} of 23.7 years is the highest worldwide.

	Life expectancy at age 60 (years)				
				Absolute	
				difference - years	
Development group or major area	Both sexes	Male	Female	(female - male)	
World	20.2	18.7	21.5	2.8	
More developed regions	22.8	20.8	24.6	3.8	
Less developed regions	18.9	17.8	20.0	2.2	
Least developed countries	17.3	16.7	17.8	1.2	
Other less developed countries	19.1	17.9	20.2	2.3	
Africa	16.7	15.9	17.4	1.5	
Asia	19.4	18.1	20.6	2.5	
Europe	21.9	19.8	23.8	4.0	
Latin America and the Caribbean	21.8	20.1	23.3	3.3	
Northern America	23.5	21.9	24.9	3.0	
Oceania	23.7	22.1	25.2	3.1	

Table I.10. Life expectancy at age 60, by sex, development group and major area, 2010-2015

2. Sex differences in life expectancy at age 60

At more advanced ages, on average, women at older ages outlive their male counterparts in all regions of the world. Worldwide, in 2010-2015, a 60-year-old woman was expected to live, on average, 2.8 years longer than a 60-year-old man (table I.10). The female advantage in survival at old age is the greatest in the more developed regions, where the sex difference in e_{60} is estimated at 3.8 years, and smallest among the least developed countries, where it is estimated at 1.2 years. Across the world's regions, the female advantage in survival beyond age 60 is the greatest in Europe, with women expected to live more than 4 years longer on average than men, and smallest in Africa, with women at older ages expected to outlive their male counterparts by less than 1.5 years on average.

The gender differences in e_{60} across major areas were even greater. To indicate the variability, figure 1.9 presents e_{60} by sex for the 21 regions of the world in 2010-2015. The lowest levels of e_{60} for both sexes are estimated to occur in the two regions of sub-Saharan Africa (Middle and Western Africa). Western Africa had the lowest levels of e_{60} in the world, where men and women aged 60, respectively, were expected to live 14.1 and 14.7 years. Across Africa's five regions, Northern Africa had the highest levels of e_{60} , which are estimated as 17.6 and 19.5 years, respectively, for males and females.



Figure 1.9. Life expectancy at age 60 by sex and region, 2010-2015

At the opposite end of the spectrum, Australia-New Zealand, Northern, Southern and Western Europe, as well as Northern America are among the regions with the highest levels of e_{60} in the world. As noted above, the European average is heavily influenced by relatively low levels in Eastern Europe, where e_{60} for both sexes combined stood at 19 years in 2010-2015 (data not shown), and corresponded to the average for less developed regions.

Male e_{60} is lower than female e_{60} in all regions of the world. Overall, the magnitude of the differences in old-age mortality risks by sex varies considerably across regions. Within the more developed regions, males in Eastern Europe have exceptionally low e_{60} , 16.2 years. As a consequence, Eastern Europe has the largest sex differential in e_{60} of any world region, with a difference of 5 years. Southern Africa and Southern Europe are the only other regions with a sex differential above 4 years. In contrast to Southern Africa where the high differential is result of exceptionally low male e_{60} (13.7 years), Southern Europe's high differential is mainly attributable to relatively high female e_{60} (25.9 years).

3. Distribution of old age population by the level of life expectancy at age 60

The proportions of the world's population aged 60 years or older by the level of e_{60} since 1950 are depicted in Table I.11 and Figure I.10. In 1950-1955, 54.2 per cent of old age population lived in countries where e_{60} was lower than 15 years. In 2010-2015, only 2.1 per cent

of old age population lived in countries where e_{60} was lower than 15 years. The decline is significant and smooth.

Table I.11.Distribution of the global population aged 60 years or older by the level of life expectancy at age 60 in
a person's country or area of residence, 1950-1955 to 2010-2015

Life expectancy	Population b	y the level of	life expectan	cy at age 60 (in years)		
at age 60	1950-1955	1960-1965	1970-1975	1980-1985	1990-1995	2000-2005	2010-2015
To	otal population	n (in billion)					
Under 12	0.006	0.005	0.000	0.000	0.000	0.000	0.000
12-15	0.054	0.035	0.041	0.018	0.013	0.011	0.006
15-18	0.050	0.082	0.061	0.076	0.083	0.083	0.081
18-21	0.001	0.002	0.044	0.081	0.057	0.052	0.057
21-25	0.000	0.000	0.000	0.000	0.056	0.094	0.147
Over 25	0.000	0.000	0.000	0.000	0.000	0.000	0.002
	Percentage of	listribution					
Under 12	5.0	3.9	0.2	0.0	0.1	0.0	0.0
12-15	49.2	27.9	28.0	10.0	6.3	4.5	2.1
15-18	45.0	66.4	41.7	43.4	39.7	34.7	27.6
18-21	0.8	1.8	30.1	46.5	27.3	21.6	19.4
21-25	0.0	0.0	0.0	0.1	26.7	39.2	50.1
Over 25	0.0	0.0	0.0	0.0	0.0	0.0	0.8

Figure I. 10. Distribution of the global population aged 60 years or older by the level of life expectancy at age 60 in a person's country or area of residence, 1950-1955 to 2010-2015



On the other hand, before 2005-2010 no country had an e_{60} higher than 25 years. In 2005-2010, this upper limit for e_{60} was broken by Japan where those alive at age 60 have been living on average more than 25 years after age 60. In 2010-2015, about 0.8 per cent of old age population lived in 7 countries or areas with e_0 over 25, which have reliable data and are: Japan, China Hong Kong SAR, Chile, France, Italy, Singapore, and Switzerland.

F. CONCLUSIONS

Socioeconomic development at certain stages will cause the demographic transition, in which mortality and fertility decline from high to low levels. The countries of the more developed regions initiated their transitions first, when mortality began to decline rapidly, especially among children, in the late-nineteenth century. Today 45 countries and areas, mostly in the more developed regions, enjoy life expectancies at birth that are unprecedented in human history – higher than 80 years. While the countries of the less developed regions initiated their demographic transitions later than the more developed regions, 9 countries and areas have also reached life expectancies at birth higher than 80 years. Numerous other countries of the less developed regions are today progressing quickly through their transitions, with falling mortality rates among both children and adults producing rapid improvements in life expectancy. However, many populations of the less developed regions, especially the least developed countries, remain in the early stages of their transitions. In 2010-2015, three countries still had their life expectancy below 50 years: Central African Republic, Lesotho, and Swaziland.

In the early stages of demographic transition, mortality decline occurs mainly among children. The high infant and child mortality rates are largely attributable to persistent high incidence and fatality of communicable diseases; and reducing mortality depends largely on improvements of the sanitation, nutrition and health discoveries such as vaccines to reduce mortality from communicable diseases. Between 1990 and 2015, the under-five mortality of the least developed countries declined by 50 per cent, bigger than the 45 per cent of the world's average. Among the less developed regions, Asia experienced the most rapid improvement in child survival since 1990, about 53 per cent. The pace of decline in under-five mortality in Oceania was slower, about 32 per cent. Africa experienced an intermediate pace of decline with the under-five mortality in the least developed countries was about 86 per 1,000, while in the other less developed regions and the more developed regions were 45 and 6 per 1,000, respectively.

In the advanced stages of the demographic transition, there are not much room for child mortality to further decline substantially, and more people survive to adult and old ages. As a consequence, further mortality decline are concentrated mainly at adult and old ages, and depends largely on reducing the effects of the non-communicable diseases.

Just as child survival is highly correlated with the level of development, so is adult mortality. In the less developed regions the risks of dying at adult ages are much higher than those in the more developed regions. In 2010-2015, the probability that a person 15-years—old in the other less developed regions will die before age 60 was 161 per 1,000, which was 30 per cent higher than in the more developed regions, where the risk of dying between ages 15 and 60 was 112 per

1,000. The least developed countries are particularly disadvantaged in terms of adult survival, with 240 per 1,000 15-year-olds estimated to die before age 60.

Old-age mortality is measured by the life expectancy at age 60, denoted as e_{60} , in this report. In 2010-2015, e_{60} is estimated at 20.2 years for the world, indicating that on average a person aged 60 could expect to live another 20.2 years, to reach age 80.2. Differences in survival at more advanced ages, after age 60, follow a pattern similar to the differences observed at younger ages. In 2010-2015, the values of e_{60} were estimated as 18.9 years in the less developed regions, and 22.8 years in the more developed regions. Older people in the least developed countries were again most disadvantaged in terms of survival, with 60-year-olds expected to live an average of 17.3 additional years.

II. Socio economic determinants of inequalities in infant and early childhood mortality

A. INTRODUCTION

Considerable progress has been achieved on child survival during the last decades. A child born in Africa or Southern Asia in 2015 was about 25 percent more likely to celebrate his or her fifth birthday than a child born in those two regions in 1960. His or her chances of survival were even larger if he was born in Latin America, Asia or Europe. For example, a child born in Brazil or Myanmar in 2015 could expect to live 20 years longer than one born in those countries just 50 years ago (WHO, 2015a).

Despite this substantial progress, an increasing proportion of child deaths worldwide are occurring today in sub-Saharan Africa and Southern Asia due to higher levels of child mortality and to faster rates of population growth in these two regions than elsewhere.

Millennium Development Goal 4 set a target of reducing under-five mortality globally by twothirds between 1990 and 2015. More recently, target 3.2 of the Sustainable Development Goals aims to reduce under-five mortality to no more than 25 deaths per 1,000 live births by 2030. Because of the large differences in child mortality between and within countries, overall reductions in child mortality of the magnitude envisaged in the SDGs will require designing and implementing policies to address inequalities in the health, environment and living conditions of children, especially those belonging to the most disadvantaged population groups. To maximize the effectiveness of such policies, it is important to understand the causes of existing inequalities in child health and survival, to identify critical factors of success for the policies applied to date, and to devise strategies for reducing disparities in the future.

Several factors may contribute to inequalities in child survival. As regards the major causes of death, it is estimated that more than half of under-five deaths are attributable to just a very small number of conditions, namely, pneumonia, diarrhoea, malaria, measles and HIV/AIDS (UNICEF 2015, WHO 2013). Mosley and Chen (1984), in their framework on the determinants of child heath, provided a distinction between the "proximate" and the "underlying" determinants of health. The former affect children's health directly (for example, feeding practices, preventive activities, care during pregnancy and childbirth), while the latter do so only indirectly through their impact on the proximate determinants (for example, mother's education and knowledge, household income, access to health facilities).

Indeed, as pointed out by Wagstaff and others (2004), the causes of socioeconomic inequalities in child health are clear. A limited number of proximate determinants have been demonstrated to affect the health of children directly. These behaviours, preventive practices, and interventions, which can improve child health and reduce child deaths, are unequally distributed across socioeconomic groups. But the Mosley-Chen framework prompts the obvious next question: why do these inequalities in the proximate determinants of child health arise and persist in some countries? Why, for example, are children in the richest quintile in India three times more likely to be immunized despite the existence of a free-of-charge and ostensibly universal government immunization program (Pande and Yazbeck, 2002).

Studies of child survival have made use of many types of information and are guided by many research paradigms (Schultz, 1984). Statistical analyses of the determinants of child survival may deal with different types of observations at the regional, country and world levels. These data range from population aggregates, characteristics of systematically selected populations such as those encountered in a clinical practice, to data from representative household surveys on children and families.

Microeconomic analysis of family economic and demographic behaviour rests on the hypothesis that people allocate their time and other economic resources in response to the value of the time of each family member, the amount of the family's non-human capital endowments, and the relative prices of the family's market inputs and outputs (Schultz, 1984).

In a review of the literature on the impact of socio-economic factors on child mortality, Wagstaff and others (2004) stated that better evidence was needed to assess the impact of socioeconomic factors on child health and, most of all, a new approach to improve the health of all children was necessary. In a study comparing the impact of mother's education and household wealth, the authors concluded that mother's education was a more important determinant of child survival than household wealth.

In another study on slums and child health in developing countries, Fink and others (2012) show that a significant fraction of the observed health differences appears to be explained by pronounced differences in maternal education, household wealth, and access to health services across residential areas.

In a more recent study, Fuchs and others (2010) show that education matters more than wealth for reducing child mortality in developing countries. But this study only refers to the last child born to each woman to avoid having to estimate multi-levels models that account for clustering of children within households. This significantly limits the possibility of studying the impact of household wealth on underfive mortality.

By 2015, the target date for the Millennium Development Goals, several countries in the developing world, mostly in Africa have not reached the health indicators –only 27 countries out of 201 reduced their under-five mortality by more than two-thirds between 1990 and 2015. As the targets for the Sustainable Development Goals are now set in the area of health, it is essential to monitor progress beyond national averages and examine the situation across different households.

The goal of this chapter is to investigate the determinants of inequalities in child survival. It looks at the disparities in childhood mortality in about 50 low- and middle-income countries using the Demographic and Health Surveys (DHS). While over the years, a number of studies have been conducted to tease out the determinants of inequalities in child survival (Chalasani, 2010; Fuchs and others, 2010), these studies focused either on specific countries or presented the situation in various countries. In this study, the intention is to present the situation in various regions (Africa, Asia and Latin America and the Caribbean) as well as in the world in general by pooling the data from DHS surveys. The study will document the differentials in the impact of the determinants of socio-economic inequalities between regions if any. The study will also present the situation in individual countries to explain the regional differences if any.

B. THEORETICAL FRAMEWORK AND MAJOR HYPOTHESES

Previously, the assessment of economic inequalities in health had been hindered by the wellknown difficulty of measuring income, traditionally the preferred indicator of economic status. While the gender and perhaps the race of an individual are usually rather obvious, her or his income can be much harder to assess (Gwatkin and others, 2007). With the availability of questions on assets from the Demographic and Health Surveys, the wealth index is developed with the help of the World Bank. The DHS Wealth Index was based on the assumption that an underlying continuum of economic status exists which is related to the wealth of a household (Rutstein, 2008).

What is known about the impact of household wealth and mother's education on child survival? In their influential essay, Mosley and Chen (1984) proposed a comprehensive analytical framework for studying the determinants of child survival in low-income settings. This framework is based on the idea that all social and economic determinants of child morbidity and mortality necessarily operate through a set of proximate determinants, which in turn influence the risk of disease and the outcome of disease processes (Chalasani, 2010).

In developing countries, the assets that households have acquired are a good indicator of their "long-run" economic status (Filmer and Pritchett, 1999; Bollen and others, 2002). With the assistance of the Demographic and Health Surveys programme, the World Bank has developed a tool to measure the relative economic position of households using data on durable consumer goods, housing quality, water and sanitary facilities and other amenities (Gwatkin and others, 2000). These assets are combined into an index of economic status using the method of Principal Component Analysis (PCA). The PCA method has been shown to provide a measure of economic status that has a higher predictive value, at least with regard to fertility, then other proxies such as an index based on the value of goods owned, or occupation (Houweling and others, 2003).

The wealth index is a variable that represents only economic resources. Education and occupation are left out in the calculation of the wealth index since they might interfere with the purely economic variables and potentially offset their effects (Fuchs and others, 2010).

More education leads to higher income by increasing access to higher paying employment or enabling self-employment to be more economically productive. The higher income leads to access to health-promoting resources. The link between maternal education and child health, and the tendency for poorer women to be less well educated, is one of the other key explanations of why poorer children die earlier and are less well nourished. The socioeconomic inequalities in maternal education are significant both across countries and within them (Filmer and Pritchett, 1999).

In previous studies, most analyses found that both maternal education and household economic resources within a multivariate analysis each had an independent effect on child health (Hobcraft, 1984; Heaton and others, 2005). An extensive review of available data in developing countries conducted by Mensch and colleagues in 1985 found that approximately half of the gross association between mother's education and child mortality remained after statistical control of household economic resources and/or living conditions such as dwelling characteristics, water supply, and toilet (Mensch and others, 1985). In this chapter, it is assumed that the effects of mother's education and household wealth on child health are independent of each other.

The causes of socioeconomic inequalities in child health are clear (Wagstaff, 2004). A limited number of proximate determinants have been demonstrated to affect the health of children directly. These behaviours, preventive practices, and interventions, which can improve child health and reduce child deaths, are unequally distributed across socioeconomic groups. Many studies have shown that child health is positively associated with income at both the country level (Pritchett and others, 1996; Preston, 1975) and the child-individual level (Alderman and others, 2000; Lee and others, 1997). Likewise, for the health-promoting effects of most proximate determinants, there is a positive association with higher income, including adult energy intake, likelihood of a pregnant woman receiving antenatal care, timing of antenatal consultations (Gertler and others, 1993), and likelihood of a delivery taking place away from home (Guilkey and Riphahn, 1998).

Not only is a household's total income an important factor, but the degree of a woman's control over its use matters (Wagstaff, 2004). Women who exert relatively little control over household financial resources are less likely to receive antenatal care, have fewer antenatal visits, and are less likely to have visits in the first trimester of pregnancy (Beegle and others., 2001). It is assumed that poorer women exert less control over household resources than better-off women. The evidence may be weak in this area.

While the direct causes of most child mortality are diseases that are preventable and treatable, children from poor households who might more likely be exposed to such diseases, are less likely to receive proper medical attention than children from better-off households (Victoria and others, 2003).

C. DATA AND METHODS OF ANALYSIS

The data used in this chapter are from the Demographic and Health Surveys (DHS) nationally representative population-based surveys that had historically focused on fertility and reproductive health. They also provided information on a vast array of child health outcomes and household characteristics, not only on child mortality but also on various factors that could affect child survival outcomes. In this study, about 50 DHS surveys conducted in the low- and middle-income countries (LMICs) of Africa, Asia, and Latin America and the Caribbean were analysed. The surveys carried out in Europe (for example, Albania) and other parts of the world (Oceania) were not included in the analysis because of the small number of surveys in these regions. The study also focused on the latest survey conducted in these countries covering the period 2003 to 2013. The selection of surveys was also guided by the availability of recoded microdata as of February 2015 (see supplementary table). The surveys were grouped by regions and pooled to study the differentials in the impact of household wealth by region.

One of the problems which may affect the results of the analysis and lead to misleading findings is the quality of data used. It is often argued that retrospective data are subject to recall bias. Evaluation of the DHS data showed that misreporting is more severe for children born more than 15 years before the survey. The fact that the study is limited to children born in the last five years before the survey reduced the misreporting bias.

In developing countries where data on mortality are scarce, the DHS surveys have clearly represented a breakthrough for the study of the relationship between various characteristics of the mothers and their husbands, such as education, urban or rural residence. One of the advantages of the DHS surveys is the collection of full birth histories whereas many other surveys have often collected only

summary birth histories (for example, number of children ever born and children surviving) and hence allow only a more limited form of micro analysis.

The unit of analysis is the child. To the child record are attached the characteristics of the parents and those of the household. The dependent variable is the death of the child. The analytical procedure consists of predicting the effect of household wealth and mother's education on the survival outcome, the death of a child.

In order to establish the pathways of influence of our variables of interest, the models are first estimated from the simplest, beginning by estimating the gross effect of household wealth and only including household wealth in the model. Then background variables are added to see if they influence the effect of the main variable, that is, the net effect. In other terms, the gross effect is captured when only the variable of interest, household wealth, is included in the model. The inclusion of control variables allows teasing out of the "real effect" of household wealth, that is the net effect. If we call β the coefficient estimated by the model (the gross effect or net effect) and Z_i , the characteristics of the individual *j*, $e^{\beta Z_i}$ is the relative risk associated with having the characteristics Z_i . If the relative risk is equal to unity, it means that the characteristic examined has no effect. The study will document to what extent mother's education is as important as household wealth for the survival of a child.

The following background variables have been included in the models: mother's education, age of the mother at the birth of the child, length of the mother's previous birth interval, sex of the child, birth order, type of residence (urban or rural), and household wealth. The variable on the duration of breastfeeding was first included in the models but due to the fact that it was not collected in some surveys, it was excluded from the list of independent variables. In any case, the inclusion of breastfeeding duration does not significantly affect the impact of household wealth or mother's education.

Further details about the analytical approach used (proportional hazard modelling of the risk of dying for a child using individual characteristics of the households, mothers and their children) and the dataset analysed are given in a technical paper (Gaigbe-Togbe, 2015). Table II.1 presents these variables and their categories used for this analysis.

Variable	Category
Dependent variable	
Survival	
	Dead
	Alive
Independent variables	
Household wealth	
	Poorest quintile
	Poor quintile
	Middle quintile
	Rich quintile
	Richest quintile
Mother's education	
	No education or less than primary
	Primary education
	Secondary education
	Tertiary education
Age of mother at birth	
	Less than 18 years
	18 to 19 years
	20 to 29 years
	30 years and over
Previous birth interval	
	less than 18 months
	18 to 24 months
	24 months or more
Birth order	
	First birth
	Second or third birth
	Fourth birth or higher
Sex of the child	
	Male
	Female
Type of residence	
	Rural
	Urban

Table II.1. Background variables and dependent variables

Mortality may be studied using logit modelling. Several studies conducted on mortality have used logit models and reached the same results as the hazard models (Palloni and Tienda, 1986). In this study, the choice of hazard modelling is based on the fact that it allows a continuous representation of the time of the event as is likely the case for a death. Although logit models allow us to handle time-dependent covariates like breastfeeding and following conception, it is restricted because of the difficulty in incorporating the exact time of occurrence of an event, such as breastfeeding or the occurrence of a following conception (Gaigbe-Togbe, 1994).

This analysis is based on a series of proportional hazard models of the effect of household wealth and mother's education on child survival. The exposure variable, age, is measured in months. Several models are constructed for the different age segments. Models have been built for the infancy period (0-11 months), for the toddler period (12-59 months), and also the whole early childhood mortality (0-59 months).

D. RESULTS

The following section presents the results of the analysis of the impact of household wealth and mother's education on early childhood mortality. The results are shown for ages 0-4 years (0-59 months), for the first year (0-11 months), and for ages 1-4 years (12-59 months), respectively.

1. Effect of household wealth at global level (all 50 countries)

Table II.2 presents relative levels of under-five mortality for groups of households classified according to a composite measure of household wealth. Within each category, the table gives the population-weighted average relative level of child mortality compared to the poorest category-across 50 low-and middle-income countries. The table distinguishes between "gross" and "net" differentials. Gross differentials are based on observed death rates, derived using available data and direct calculation methods. Net differentials are based on adjusted estimates of the under-five mortality rate, where the adjustment consists of applying statistical controls for other factors potentially contributing to the gross differentials separately from household wealth. In addition to household wealth, variables such as age of mother at the birth of the child, length of the mother's previous birth interval, birth order and sex of the child were used as statistical controls. Figure II.1 presents the net relative risk of death. The table presents the estimated coefficients as well as the relative risks. The reference category (the poorest quintile) is given in parentheses. The results suggest that household wealth may have substantial effects on child survival at the global level. In general, the probability of child survival tends to be higher at higher levels of household wealth. Children from households in the richest quintile have the lowest risk of death, and both the gross and the net relative risks of dying tend to decrease from the poorest to the richest quintile.

The gross relative risk of a child dying from the richest quintile is 68 per cent that for a child from the poorest quintile. When the effects of other potential intervening factors are controlled using statistical methods, the relative risk of a child dying from the richest household becomes 78 per cent that for a child from the poorest household. The relative risk of dying for a child decreases steadily from the poorest household (figure II.1). The gross relative risk of dying for a child from a middle-income household (middle quintile) is 91 per cent of that for a child from the poorest household, whereas the net relative risk of the same child is 96 per cent that of a child from the poorest household. Thus in both cases, the differential become smaller but does not disappear when accounting for the association between other potential causal factors and levels of child mortality. This finding is consistent with the conclusion that household wealth has a substantial causal impact on levels of child mortality and may account for a significant portion of the observed differentials.

		Gross effect		Net effect		
Variable	Gross effect	Relative risk	Net effect	Relative risk		
Wealth index						
(Poorest)		1.0000		1.0000		
Poor	-0.18800	0.9822	0.01304	1.0131		
Middle	-0.09743***	0.9072	-0.04293*	0.9580		
Rich	-0.14512***	0.8649	-0.06516***	0.9369		
Richest	-0.38149***	0.6828	-0.25359***	0.7760		
Note: Reference category is give	Note: Reference category is given in parentheses					
*** p<.001	** p<.01	* p<.05	& p<.10	#N = 468094		

 Table II.2.
 Proportional hazard model coefficients and relative risks of death in early childhood (0-59 months) by household wealth



Figure II.1. Net relative risk^{*} of death by household wealth in childhood (0-59 months) in the world

2. Effect of household wealth on infant mortality

The association between household wealth and the survival of infants is statistically significant. At the global level (the 50 countries in the analysis), the net relative risk of dying for a child born in a household in the richest quintile dying is 80 per cent of that for a child born in a household in the poorest quintile (table II.3 and figure II.2). The relative risk of mortality diminishes with the level of household wealth. It is 96 per cent for a child in the middle quintile of households and 94 per cent for a child from the rich quintile.

		Gross effect		Net effect
Variable	Gross effect	Relative risk	Net effect	Relative risk
Wealth index				
(Poorest)		1.0000		1.0000
Poor	-0.04078*	0.9600	-0.005439	0.9946
Middle	-0.09929***	0.9055	-0.042679*	0.9582
Rich	-0.14025***	0.8691	0.062948**	0.9390
Richest	-0.33514***	0.7152	0.216473***	0.8054
Note: Reference cate	egory is given in parenthes	es		
*** p<.001	** p<.01	* p<.05	& p<.10	#N = 202720

 Table II.3.
 Proportional hazard model coefficients and relative risks in infancy (0-11 months) by household wealth



Figure II.2. Net relative risk^{*} of death in infancy in the world (0-11 months), by household wealth, World

3. Effect of household wealth on child mortality (12-59 months)

At the global level, the association between household wealth and child mortality is still present after the first year of life. Table II.4 and figure II.3 show that the net relative risk of dying for a child of the richest quintile compared to that for the poorest quintile is 66 per cent between the first year of life and the fifth birthday. Whereas the gross relative risk of dying for a child from the middle quintile is 88 per cent that for a child from the poorest quintile, the net relative risk is 9 per cent but not significant.

		Gross affect		Net effect	
Variable	Gross effect	Relative risk	Net effect	Relative risk	
Wealth index					
(Poorest)		1.0000		1.0000	
Poor	0.01854	1.0187	0.05978	1.0616	
Middle	-0.13247**	0.8759	-0.05836	0.9433	
Rich	-0.19930***	0.8193	-0.08324&	0.9201	
Richest	-0.62176***	0.5370	-0.41454***	0.6607	
<i>Note</i> : Reference category is given in parentheses					
*** p<.001	** p<.01	* p<.05	& p<.10	# N =265374	

 Table II.4.
 Proportional hazard model coefficients and relative risks of death in childhood (12-59 months interval) by household wealth



Figure II.3. Net relative risk^{*} of death in childhood (12-59 months) by household wealth, World

4. Effect of household wealth on mortality at the regional level

Figure II.4 and table II.5 present the association between household wealth and child survival for the three regions included in the analysis for the whole early childhood (0-59 months). The net relative risk of dying before reaching the fifth birthday for a child born in the richest household in Africa is 89 per cent of that for a child born in the poorest household in the region after controlling for other factors. The gross relative risk is 81 per cent. In Asia, the gross relative risk of dying for a child from the richest household is 46 per cent of that for a child of the poorest household. When other factors are controlled, the relative risk becomes 52 per cent that for a child from the poorest household. In Latin America and the Caribbean, the association between household wealth and child survival is comparable to that of Asia with a child in the richest household having only 61 per cent of gross relative risk of dying and 70 per cent net relative risk of dying of that for a child from the poorest household. Of the three regions, Africa is the region where the association between household wealth and child survival seems to be the lowest, with a net relative risk of dying of 89 per cent, compared to 70 per cent in Latin America and the Caribbean and 52 per cent in Asia.





		Gross effect		Net effect	
Variable	Gross effect	Relative risk	Net effect	Relative risk	
	AFR	ICA (#N = 301365)			
Wealth index					
(Poorest)		1.0000		1.0000	
Poor	0.02784	1.0284	0.05720	1.0589	
Middle	-0.02197	0.9783	0.02211	1.0224	
Rich	-0.01313	0.9870	0.05119*	1.0525	
Richest	-0.20739***	0.8127	-0.11267***	0.8935	
ASIA (# N= 92769)					
Wealth index					
(Poorest)		1.0000		1.0000	
Poor	-0.15578***	0.8558	0.11882**	0.8880	
Middle	-0.28552***	0.7516	-0.22163***	0.8012	
Rich	-0.41311***	0.6616	-0.32776***	0.7205	
Richest	-0.77281***	0.4617	-0.64927**	0.5224	
	LATIN AMERICA	AND THE CARIBB	EAN (#N = 66937)		
Wealth index					
(Poorest)		1.0000		1.0000	
Poor	-0.21834***	0.8039	-0.16603**	0.8470	
Middle	-0.24142***	0.7555	-0.15633**	0.8553	
Rich	-0.50584***	0.6030	-0.39056***	0.6767	
Richest	-0.49252***	0.6111	-0.36299***	0.6956	
Note reference categ	ory is given in parenth	neses			
*** p<.001	** p<.01	* p<.05	& p<.10		

Table II.5 Proportional hazard model coefficients and relative risks of death by region (0-59 months) by household wealth

5. Impact of household wealth on infant mortality (0-11 months) by region

Table II.6 shows that during the first year of life, the gross relative risk of dying for a child born in the richest household in Africa is 94 per cent of that for the poorest household. It is slightly reduced to 92 per cent when other factors are controlled but not statistically significant. The association between household wealth and the survival of infants is only significant for the richest category when other factors are not taken into consideration. In contrast, the association between household wealth and infant survival is more pronounced in Asia. The gross relative risk of dying for a child from a richest household from Asia compared to that for a child from the poorest household is 73 per cent and the relative risk increases to 78 per cent when other factors are controlled. The association between household wealth and infant mortality increases steadily from the poorest quintile to the richest quintile in Asia whereas, in Africa and Latin America and the Caribbean, this relationship is not observed.

		Gross effect		Net effect	
Variable	Gross effect	Relative risk	Net effect	Relative risk	
		AFRICA (#N = 74	4206)		
Wealth index					
(Poorest)		1.0000		1.0000	
Poor	0.006092	1.0061	0.02199	1.0481	
Middle	-0.010917	0.9891	0.01160	1.0161	
Rich	-0.002317	1.0023	0.03138	1.0526	
Richest	-0.059556*	0.9422	-0.02892	0.9176	
		ASIA (# N=21502	2)		
Wealth index					
(Poorest)		1.0000		1.0000	
Poor	-0.002907	0.9971	0.01477	1.0149	
Middle	-0.110953*	0.8950	-0.07132	0.9312	
Rich	-0.160313**	0.8519	-0.12355*	0.8838	
Richest	-0.310249***	0.7333	-0.24566***	0.7822	
	Ι ΑΤΙΝΙ ΑΜΕΡΙΟΑ	AND THE CADIBBEA	NI (#NI –14731)		
Wealth index	LATIN AWERICA	AND THE CARIBBER	$(\pi N = 14751)$		
(Deorest)		1 0000		1 0000	
(Foorest)	0.09559	1.0000	0.020005	0.000	
Poor	-0.08558	0.9180	-0.039995	0.9608	
Middle	-0.04888	0.9523	-0.005241	0.9948	
Rich	-0.15996*	0.8522	-0.123441	0.8839	
Richest	-0.07230	0.9303	-0.074071	0.9286	
Note: Reference cate	gory is given in parenthe	ses			
*** p<.001	** n< 01	* n< 05	& p< 10		

Table II.6. Proportional hazard model coefficients and relative risks by region (0-11 months) by household wealth

The gross and net relative risks of dying for a child in the richest quintile in Latin America and the Caribbean are respectively 93 per cent and 92 per cent that for a child in the poorest quintile. As observed in Africa, the association between household wealth on the survival of infants is less pronounced in Latin America and the Caribbean and is even statistically not significant when other factors are controlled in the model.

6. Impact of household wealth on child mortality (12-59 months) by region

Whereas the association between household wealth and survival is less pronounced in infancy in Asia, it is more important after the first anniversary in all regions. In Africa, the gross relative risk of death for a child in the richest quintile is 64 per cent lower than that for a child in the poorest quintile. The relative risk is reduced to 73 per cent when other factors are taken into consideration -net relative risk (table II.7).

In Asia, the gross relative risk of death of a child from the richest quintile is only 32 per cent of that for a child from the poorest quintile. The relationship still holds when other factors are controlled for with relative risk of death in the richest quintile being 38 per cent lower than that in the poorest.

Variable	Gross offect	Gross effect	Not offect	Net effect
	Gloss effect	Kelauve IISK	Net effect	Kelative lisk
Wealth index		AFRICA (#N = 227159)		
(Poorest)		1.0000		1.0000
Poor	0.08537	1.0891	0.11922**	1.1266
Middle	-0.02570	0.9746	0.02441	1.0247
Rich	-0.03462	0.9660	0.04354	1.0445
Richest	-0.44657***	0.6398	-0.30845***	0.7346
Wealth index		ASIA (# N-71267)		
(Deerest)		1 0000		1 0000
(Poolest)		1.0000		1.0000
Poor	-0.2453*	0.7825	-0.19660	0.8215
Middle	-0.6112***	0.5427	-0.52253***	0.5930
Rich	-0.6685***	0.5125	-0.55122***	0.5762
Richest	-1.1455***	0.3181	-0.97611***	0.3768
Wealth index	LATIN AME	RICA AND THE CARI	BBEAN (#N = 52206)	
(Poorest)		1.0000		1.0000
Poor	-0.5538***	0.5748	-0.4814**	0.6179
Middle	-0.5141**	0.5981	-0.3929*	0.6751
Rich	-0.9264***	0.3960	-0.7484***	0.4731
Richest	-1.5538***	0.2941	-0.9785**	0.3759
Note: Reference category is	s given in parentheses			

 Table II.7.
 Proportional hazard model coefficients and Relative risks by region (12-59 months) by household wealth and by region

*** p<.001	** p<.01	* p<.05	& p<.10
1	1	1	1

In Latin America and the Caribbean, the association between household wealth and child survival after the first year of life is most marked. The gross relative risk of dying for a child in the richest quintile is only 29 per cent that for a child in the poorest quintile. When other factors are statistically controlled for, the relationship between household wealth and child mortality does not change with a child in the richest quintile having only 38 per cent risk of dying after the first year compared to a child in the poorest quintile.

7. The impact of the place of residence (urban-rural) at the global level

As pointed out earlier, the wealth index is based on the number of assets that a household possesses and the services available to the household. Some of these assets or services could be public goods and available to the majority of households in some areas making it difficult to differentiate the impact of the wealth index. Some of the assets that are available in urban areas may not be available in rural areas. It is therefore important to take into account the place of residence while calculating the wealth index or constructing different indexes for the urban areas and the rural areas. The DHS wealth index as currently calculated relates to the national population as a whole. A concern with the originally constituted index was that it was too "urban" in its construction, depending on assets and services that mainly urban populations would have but that rural populations would not have. Later, separate urban and rural wealth indexes were calculated and then combined into a national wealth index to allow for differing item weightings in each area and urban- and rural-specific analyses (Rutstein, 2008; Rutstein and Staveteig, 2014).

V	Care as affer at	Gross effect	NT-4 -664	Net effect
Variable	Gross effect	Relative risk	Net effect	Relative risk
		URBAN (#N = 158861)		
Wealth index				
(Poorest)		1.0000		1.0000
Poor	-0.092922	0.911265	-0.03385	0.9667
Middle	-0.104197*	0.901048	-0.01501	0.9851
Rich	0.006305	1.3006325	0.12338	1.1313
Richest	-0.133825**	0.874743	0.02855	1.02896
		RURAL (# N=309249)		
Wealth index				
(Poorest)		1.0000		1.0000
Poor	0.02164	1.02187	0.045590	1.046646
Middle	-0.01266	0.98742	0.026943	1.027309
Rich	-0.06161**	0.94025	-0.009027	0.991014
Richest	-0.31329***	0.73104	-0.234414*	0.791034
Note: Reference category is given in parentheses				

 Table II.8.
 Proportional hazard model coefficients and Relative risks of death by type of area (12-59 months) by household wealth

*** p<.001 ** p<.01 * p<.05	& p<.10
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In order to address this issue, separate models for urban areas and rural areas were constructed. Table II.8 shows that the association between household wealth and child survival is more prevalent in rural areas as a whole than in urban areas. The gross relative risk of dying for a child from the richest household in rural areas is 73 per cent that for a child in a poorest household while his or her net relative

risk is 79 per cent and statistically significant. In contrast, the gross relative risk of death for a child in the richest quintile in urban areas is 87 per cent and the net relative risk is not different from that for a child of the poorest quintile. The availability of services for the large majority of households in urban areas reduces the magnitude of the impact of household wealth. For example, better water supply and sanitation are more available to the majority of households in urban areas than in rural areas. A number of studies have demonstrated that water supply and sanitation were important determinants of early childhood mortality (Merrick, 1976; Fayehun, 2010; Gaigbe-Togbe, 1994; Osita and others, 2014). As an obvious fact, water supply and sanitation are important factors, which are included in the measurement of the wealth index. As observed at the global level, the impact of household wealth seems to be more prevalent in rural areas than in urban areas in Asia and to a less extent in Africa and Latin America and the Caribbean.

8. The impact of mothers' education at the global level

Most studies conducted so far demonstrate that mother's education has an impact on child health as household wealth does. However, the question is whether the impact of household health is independent of that of mother's education. It is well known that wealth increases with education. In order to answer this question, models on the impact of mother's education were also constructed. It appears that the effect of mother's education is still present when household wealth is statistically controlled, indicating that the effect of education is independent of that of household wealth. In contrast, the impact of household wealth tends to be reduced or become less statistically significant when mother's education is introduced in the models. The gross relative risk of dying of a child from a household with a mother with tertiary education is 26 per cent that for a child of a mother with no education or less than primary level education (table 9). When other factors are controlled, including household wealth, the relative risk of dying of a child of a mother with less than a primary education.

Variable	Gross effect	Gross effect Relative risk	Net effect	Net effect Relative risk	
Mother's education					
(No education)		1.0000		1.0000	
Primary	-0.28483***	0.7522	-0.2589***	0.7719	
Secondary	-0.69453***	0.4993	-0.6414***	0.5266	
Tertiary	-1.33038***	0.2638	-1.223***	0.2944	
Note: Reference category is given in parentheses					
*** p<.001	** p<.01	* p<.05	& p<.10	#N = 468094	

 Table II.9.
 Proportional hazard model coefficients and relative risks of death in early child hood (0-59 months) by mother's education

The study of 17 developing countries conducted by Bicego and Boerma in 1993 found that the effect of controlling for household economic resources reduced the relationship between maternal education and both neonatal mortality and mortality at ages 1-23 months by similar and substantial amounts, but that the degree to which economic resources confounded this relationship varied considerably over the countries studied (Bicego and Boerma, 1993; Fuchs and others, 2010; Quamruzzama and others, 2014).

9. The impact of household wealth and mother's education on child survival at the country level

Although the analysis is conducted mostly at the global and regional levels, it is essential to investigate the impact of household wealth in individual countries. Figure II.5 presents the net relative risk of death by wealth quintile and by countries and figure II.6 shows the relative risks of death by wealth quintile and by region for the whole age group 0-59 months. The red vertical lines represent the value of the category of reference, in this case, the poorest quintile. It appears that the relationship between household wealth and child survival is most pronounced. For most countries under study, the relative risk of death of children in the first five years of life is associated with household wealth. In particular, children from households in the richest quintile have a net relative risk of death much lower than children from households in the poorest quintile.



Figure II.5. Net relative risk of death (0-59 months) by wealth quintile

Note: The poorest wealth quintile (omitted from this figure) is the baseline reference category.

Figure II.6 shows that except for Africa, the net relative risk of dying for children from the richest households are constantly lower than that for children from the poorest households in other regions (Asia and Latin America and the Caribbean). For six countries in Africa, (Angola, Kenya, Madagascar, Sierra Leone, United Republic of Tanzania and Zambia) these results suggest that children from the richest households have a relative risk of death higher than that of children from the poorest households.



Figure II.6. Net relative risk of death (0-59 months) by wealth quintile and by region

Note: The poorest wealth quintile (omitted from this figure) is the baseline reference category.

Figure II.7 presents the net relative risk of death of children 0 to 59 months by the level of education of the mother for individual countries. The red vertical lines represent children with mothers with less than primary level of education. Again, it is apparent that mother's education plays a role in the chances of survival of children even after controlling for household wealth in many countries. For only 6 countries out of the 50, children of mothers with a tertiary education have a relative risk of death higher than that of the children of mothers with less than a primary education or no education.



Figure II.7. Net relative risk of death (0-59 months) by mother's level of education

Note: The "No education or less than primary" category (omitted from this figure) is the baseline reference category

Figure II.8 presents the net relative risk of death by mother's education and by region. It appears again that in Africa, children of mothers with primary education do not have a marked advantage over children of mothers with no education. But as the level of education increases, marked differences are observed for children of mothers with secondary and tertiary education having a lower relative risk of death than children of mothers with no education. In Asia and Latin America, on the other hand, children of mothers with primary education have a lower relative risk of death than children of mothers with no education. The relationship becomes more marked for the secondary and tertiary education.



Figure II.8. Net relative risk of death (0-59 months) by mother's education and by region

Note: The "No education or less than primary" category (omitted from this figure) is the baseline reference category.

Figure II.9 presents the relative risks of death for the children of mothers with tertiary education plotted against the relative risks of death of children in the richest quintile. The red line represents the regression line. Although, the R-squared is only 0.106, the coefficient of linear regression of household wealth on education (0.216) is significant at a p-value of 1 per cent. In 35 of the 50 countries included in

the analysis, children of mothers with tertiary education and children from richest households have relative risk of death lower than that of children from the poorest households and children from mothers with less than primary education. In six countries, all in Africa (Angola, Madagascar, Kenya, Sierra Leone, United Republic of Tanzania, and Zambia), the relative risk of death of children in the richest quintile is lower than that of the poorest quintile whereas the relative risk of death of children with mothers with tertiary education is higher than that of the children of mothers with no education or less than primary education in 10 countries (five in Africa and five in Asia). In contrast, in two countries, United Republic of Tanzania and Zambia, the relative risk of death for children from the wealthiest households and with mothers possessing tertiary education is higher than that of both children from the poorest households and of mothers with no education or less than primary education.

Figure II.9. Net relative risk of death (0-59 months), tertiary mother's education versus richest quintile



Relative risk of death by mother's education

E. DISCUSSION

The study has demonstrated that household wealth plays a crucial role in the survival of children under-five years of age in many countries in the study. Children from the richest households are more likely to survive through the first five years of life than their counterparts from the poorest households. As pointed out in Mosley's framework, for the health-promoting effects of the most proximate determinants of health, there is a positive association with higher income, including energy intake, likelihood that delivery will take place away from home, and type of preventive measures that could improve child health and reduce child deaths. At the regional level, Asia and Latin America are the regions where the relationship between household wealth and risk of child death is the most pronounced. Conversely, in Africa, while the relationship between household wealth and child death still holds, it is weaker. Many factors may contribute to the weakening of the impact of household wealth on child survival. One possible factor is that in settings with more challenging geographic conditions and where most of the population live far from a health facility, economic conditions may be less important than geography (Mulholland and others, 2008). This tends to be the case in many African countries.

In the first year of life, the impact of household wealth is significant only for Asia. After the first year of life, the influence of household wealth is present in all regions studied: Africa, Asia, and Latin America and the Caribbean. The effect of household wealth is more pronounced in the age group 12-59 months in all regions. The reasons for the less significance of the impact of household wealth in infancy in Africa and Latin America and the Caribbean are not clear. It may be possible that the cumulative effect of differential in nutritional status and access to health services become more pronounced after infancy in these regions, which may explain the lack of effect of household wealth in infancy in those regions. Studies from INDEPTH show that the differentials noted in infancy have shaped the relationship between socio-economic status and under-five mortality (Mwageni and others, 2011). But another has shown that the relationship does not hold when other factors are taken into consideration (Debpuur and others, 2011).

The study also shows that irrespective of the household wealth, the impact of mother's education is present, proving that mother's education affects child survival through other mechanisms than the resources available to the household. The knowledge and practices that could save the lives of children are mostly acquired by women with a level of education higher than the primary level. Such practices include better hygiene.

The inclusion of mother's education without interaction term in the model reduces the impact of household wealth. This confirms that part of the effect of household wealth on child survival plays through that of mother's education (Fuchs and others, 2010).

This confirms the hypothesis that in addition to economic resources that the level of education allows to acquire, it also allows a better knowledge of measures to be taken to improve hygiene and the health of young children. Educated mothers are more likely to follow the instructions given by the medical personal when their children become sick. They are also more likely to assess the ill-health status of their children and follow the vaccination schedule (Desai and Alva, 1998; Abuya and others, 2012; Fuchs and others, 2010; Hajizadeh and others, 2014).

Another aspect relative to household wealth is that its impact is more pronounced in the period after the first year of life except in Asia, where household wealth is also an important determinant of child survival in the first year of life. In general, the influence of household wealth on child mortality increases with age.

The impact of household wealth on child survival is more present in rural areas than in urban areas. Many of the variables that are used in the combined wealth index such as electricity, water supply, and sanitation are commonly available in urban areas. The existence of better health facilities and services available to all is more common in urban areas. This makes it less likely that household wealth could have a significant impact on child survival in these areas. On the contrary, the presence of electricity and piped water in the household in rural areas is less common thus accentuating the differences with other households and the impact of household wealth. Studies have also found that there are significant socioeconomic differences in an apparently homogeneously poor rural area, for example, and that the main difference between the more and less poor in health is not in the likelihood of being ill but in the access to adequate treatment once ill (Gwatkin, 2003; WHO, 2009).

This study has demonstrated that socioeconomic inequalities matter for child health and mortality. Hence, an equity-focused approach as proposed by the United Nations Children Fund (UNICEF), will improve returns on investment, averting many more child and maternal deaths. While it is important to invest globally in child health, it is equally important to target the most economically vulnerable children. Equity in the access to health care services will improve child survival in settings where health facilities are inaccessible to dwellings (Mulholland and others, 2008).

The 2008 World Health Report identified raising the visibility of health inequities in public awareness and policy debates as a key mechanism to address health equity within primary health care (WHO, 2008). Because of national burdens of disease, ill health and malnutrition are concentrated in the most excluded and deprived child populations. Providing these children with essential services can reduce disparities within nations, accelerate progress towards the health-related Millennium Development Goals (MDGs) and more recently the Sustainable Development Goals, and reduce disparities within nations (UNICEF, 2010, Carrera and others, 2012).

Table II.10	List of countries with the most recent DHS survey conducted in 2005-2013
	and the number of children analysed in each survey

Country	Region	Survey	Number of children
Angola	Africa	2010 MIS	3,194
Armenia	Asia	2010 DHS	646
Azerbaijan	Asia	2006 DHS	905
Bangladesh	Asia	2011 DHS	3,250
Benin	Africa	2011 DHS	5,284
Bolivia	Latin America and the Caribbean	2008 DHS	3,396
Burkina Faso	Africa	2010 DHS	6,068
Cambodia	Asia	2010 DHS	3,184
Cameroon	Africa	2011 DHS	4,955
Colombia	Latin America and the Caribbean	2010 DHS	6,785
Comoros	Africa	2012 DHS	1,292
Congo	Africa	2011 DHS	3,937
Dominican Republic	Latin America and the Caribbean	2013 DHS	1,445
Egypt	Africa	2008 DHS	4,670
Ethiopia	Africa	2010-2011 DHS	4,313
Gabon	Africa	2012 DHS	2,591
Guinea	Africa	2012 DHS	2,872
Haiti	Latin America and the Caribbean	2012 DHS	2,948
India	Asia	2005 DHS	19,440
Indonesia	Asia	2012 DHS	7,164
Jordan	Asia	2012 DHS	3,916
Kenya	Africa	2008-2009 DHS	2,413
Kyrgyzstan	Asia	2012 DHS	1,860
Lesotho	Africa	2009-2010 DHS	1,688
Liberia	Africa	2013 DHS	3,137
Madagascar	Africa	2011DHS	6,248
Malawi	Africa	2010 DHS	7,907
Maldives	Asia	2009 DHS	1,690
Mali	Africa	2012 DHS	4,062
Morocco	Africa	2003-2004 DHS	2,329
Mozambique	Africa	2011 DHS	4,604
Namibia	Africa	2013 DHS	2,071
Nepal	Asia	2011 DHS	1,968
Niger	Africa	2012 DHS	4,943
Nigeria	Africa	2013 DHS	12,784
Pakistan	Asia	2012-2013 DHS	4,232
Peru	Latin America and the Caribbean	2012 DHS	3,654
Philippines	Asia	2013 DHS	2,856
Rwanda	Africa	2010 DHS	3,220
São Tomé and Príncipe	Africa	2008-2009 DHS	792
Senegal	Africa	2010 DHS	4,998
Sierra Leone	Africa	2013 DHS	4,629
Swaziland	Africa	2006 DHS	1,131
Tajikistan	Asia	2011 DHS	2,013
Timor-Leste	Asia	2009 DHS	3,771
Turkey	Asia	2003 DHS	1,659
Uganda	Africa	2011 DHS	3,104
United Republic of Tanzania	Africa	2010 DHS	3,230
Zambia	Africa	2007 DHS	2,638
Zimbabwe	Atrica	2010DHS	5,246

III. Policy implications of the Sustainable Development Goals for population health

"Health is central to development: it is a precondition for, a contributor to, as well as an indicator and an outcome of progress in sustainable development" (WHO, 2012). Over the last several decades, there has been considerable progress worldwide in improving various factors that influence population health, including nutrition, access to safe water, improved sanitation and the general standard of living. The Millennium Development Goals (MDGs) emphasized key aspects of the health and mortality of populations, including maternal and child health (goals 4 and 5), as well as HIV/AIDS, tuberculosis and malaria (goal 6).

It is difficult to know for certain whether the MDGs merely drew attention to the progress being made in these areas or whether the Goals helped to fuel an acceleration of that progress. In either case, the remarkable achievements of the MDGs era must be sustained and reinforced if the world is to achieve the new and more ambitious objectives of the Sustainable Development Goals (SDGs) adopted by United Nations General Assembly in September 2015 (United Nations, 2015a),

The SDGs call for the following achievements by 2030:

- Reduce the global maternal mortality ratio to less than 70 per 100,000 live births (target 3.1);
- End preventable deaths of newborns and children under five years of age, with all countries aiming to reduce neonatal mortality to at least as low as 12 per 1,000 live births and under-five mortality to at least as low as 25 per 1,000 live births (target 3.2);
- End the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases and combat hepatitis, water-borne diseases and other communicable diseases (target 3.3);
- Reduce by one third, premature mortality from non-communicable diseases (NCDs) through prevention and treatment and promote mental health and well-being (target 3.4).

Improving health services and providing cost-effective and high-impact interventions that address the needs of women and newborns across the continuum of care, with an emphasis on care around the time of birth, remains critical as means of saving lives.

Pneumonia, diarrhoea and malaria remain the leading causes of death among children under 5. Forty-five per cent of under-five deaths occur in the first month of life or neonatal period, when deaths are dominated by pregnancy-related factors, including preterm and intrapartum complications (ranging between 48 and 61 per cent of neonatal deaths across regions) and infections like sepsis, meningitis and pneumonia accounting (between 7 and 24 per cent). During the second through twelfth month of life or post-neonatal period, deaths from the leading infectious diseases (pneumonia, diarrhoea, malaria, meningitis, AIDS, measles) still account for nearly 70 per cent of the total in sub-Saharan Africa (Liu, 2014).

Yet many of these deaths are easily preventable through simple, cost-effective interventions administered before, during and immediately after birth (The Partnership for Maternal, Newborn and Child Health, 2011). Too many mothers and newborns still miss out on key interventions that can save their lives. Globally, only around half of all pregnant women receive the recommended minimum of four antenatal care visits. In 2014, about 29 per cent of births were delivered without the help of a skilled

health care provider. High quality care for pregnant women and newborns is often lacking, even for babies and mothers who have contact with the health system (UNICEF, 2015).

As this report has highlighted, socio-economic inequalities are closely associated with observed levels of child health and mortality. The strong association between mortality and various measures of socio-economic status (as measured by household wealth and mother's education) remains even after other potential causal factors are taken into account. Those factors include mother's age, urban/rural type of residence, and key characteristics of the child such as sex, birth order, length of previous birth interval). Therefor health policies that focus on reducing inequalities, as proposed by the United Nations Children Fund (UNICEF), seem more likely to yield large returns on the investments being made by countries, averting more child and maternal deaths than policies hat focused on improving overall levels of health and mortality without attention to the role of inequalities. While it is important to invest globally in maternal and child health, it is critical that these efforts target the most economically vulnerable children and their families.

The 2008 World Health Report identified raising the visibility of health inequities in public awareness and policy debates as a crucial step towards a strengthened emphasis on health equity within primary health care (WHO, 2008). Because malnutrition, ill health and the overall burden of disease are typically concentrated in the most disadvantaged populations, providing children in such settings with essential services can help to reduce disparities within countries and accelerate progress towards the achievement of health -related development goals (UNICEF, 2010; Carrera and others, 2012). Ensuring equal access to health care services can improve maternal and child survival in settings where health facilities are far removed from the dwellings (Mulholland and others, 2008), and for subpopulations that remain at high risk of death from preventable conditions (WHO, 2015a).

Mother and child survival are a shared responsibility across the public, private and civil society sectors. Better results can be obtained by them working together to improve nutrition, access to water and sanitation, health, education and other services. The latest update to the Global Strategy for Women's, Children's and Adolescents' Health for 2016-2030 (Every Woman Every Child, 2015) focuses on three overarching objectives—Survive, Thrive and Transform—and builds on the momentum of the powerful multi-stakeholder movement, Every Woman Every Child, that has developed over the past five years. The new strategy includes an emphasis on adolescents, as they are central to everything that should be achieved in the next decades and provides a road map to support country priorities and plans to insure that no woman, child or adolescent should face a greater risk of preventable death because of where they live or who they are.

Achievement of these health-related targets will require a holistic approach, as part of an integrated development agenda Progress toward these health objectives (SDG 3) must be supported by progress in other domains for example by improving living conditions (SDGs 1, 2), expanding access to education (SDG4), empowering women and girls (SDG5), increasing opportunities for employment and decent work (SDG8), building sustainable cities (SDG 11) and promoting peaceful and inclusive societies (SDG 16). (United Nations, 2013).

In particular, progress toward the health-related targets will require a special emphasis on promoting social, economic and political inclusion of all, irrespective of age, sex, disability, race ethnicity, origin, religion or economic or other status (SDG 10.2). Persons with disability, for example, face higher risks of mortality than the rest of the population, especially in situations of disaster or crisis.

The mortality rate for those with disabilities can be as much as two to four times higher than their peers without disabilities. The Sendai Framework for Disaster Risk Reduction 2015-2030 includes persons with disabilities as beneficiaries and as agents of change. Implementation of the Framework should be integrated into the efforts to reduce the elevated mortality risks of persons with disabilities.

Similarly, achieving further reductions in mortality due to non-communicable diseases(NCDs), including for the more developed regions, will require an integrated approach taking into account demographic factors, such as population, ageing, and rapid urbanization, as well as behavioural factors, such as smoking, inactivity and unhealthy diets, and the forces driving them, including the marketing of consumer goods. Given that population ageing will be the dominant demographic trend globally over the next several decades, more and more countries will need to scale-up a range of cost-effective prevention and treatment options for NCDs, both at the individual and collective levels (WHO, 2015b).

The United Nations Political Declaration on NCDs, adopted by the General Assembly in 2011, and the United Nations Outcome Document on NCDs, adopted by the Assembly in 2014, include a road map of commitments made by governments. The Global Action Plan for the Prevention and Control of NCDs 2013-2020 (WHA Resolution A66/9), endorsed by the World Health Assembly in May 2013, provides a non-exhaustive menu of policy options and cost-effective interventions, focusing on the four categories of non-communicable disease that make the largest contribution to morbidity and mortality— cardiovascular diseases, cancer, chronic respiratory diseases and diabetes — and includes voluntary targets focusing on risk factors such as tobacco use, high blood pressure, high salt intake, obesity and physical inactivity, and on access to essential medicines, technologies, drug therapy and counselling.

The World Health Organization Framework Convention on Tobacco Control (WHO FCTC), ratified by 180 Parties representing 90 per cent of the global population, is the first public health treaty negotiated under the auspices of WHO. Sustainable Development Goal 3 target (3.a) commits governments to strengthen the implementation of the WHO FCTC in all countries. Effective country implementation of multisectoral control measures, such as raising taxes on tobacco and banning smoking in public places, are major success factors (WHO, 2015b).

Among many potential public health measures, the following five interventions, which are part of the World Health Assembly's NCD targets (WHA Resolution A66/8), would need to be in place by 2030 in order to come close to reaching the NCD target 3.4 of the SDGs (Nugent, 2015): (1) tobacco taxation at sufficiently high rates to achieve a 50 per cent relative reduction in user prevalence, (2) treatment of heart attacks by providing aspirin to 75 per cent of patients at the onset of an acute myocardial infarction (AMI), (3) a 30 per cent reduction in the mean dietary intake of salt through voluntary reformulation of processed foods, (4) management of hypertension by providing medicine to half of medium- to high-risk patients, and (5) an expanded strategy for secondary prevention of cardiovascular disease (70 per cent coverage and at least 60 per cent adherence to a multi-pill regimen for those at a high risk of a cardiovascular event).
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V. Annex: Summary mortality indicators in 1950-2015, by country or area

Page

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71
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581
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93
99
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Life expectancy at birth (years)*

	Both sexes N						Absolute difference, years				
	Both sexes	;		Male		Female		(fema	ale - ma	le)	
Country or area	1950-55 2	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-	55 201	0-15	1950-2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(1	LO)	(11)
WORLD	46.8	70.5		45.4	68.3	48.3	72.7		3.0 🔵	4.5	
More developed regions ^a	64.7	78.3		62.1	75.1	67.2	81.5		5.1	6.4	
Less developed regions ^b	41.5	68.8		40.6	66.9	42.5	70.7		1.9	3.7	
Least developed countries ^c	36.1	62.2		35.0	60.7	37.4	63.6		24	2.9	
Other less developed countries ^d	12.3	70.2		<i>4</i> 1 5	68.3	/3.3	72 1		1.8	2.9	
Less developed regions, excluding China	40.7	67.0		40.0	65.1	41.5	69.1		1.5	4.0	
High-income countries ^e	64.0	78.8		61.4	75.7	66.5	81.9		5 1	6.2	
Middle-income countries ^e		60.5		11 /	67.7	12.2	71 5			2.0	·
Linner middle income countries ^e	42.4	72 0		41.4 42 E	71.0	43.5 AG E	71.5		2.1	3.0 1 2	
opper-middle income countries	44.9	75.0		45.5	/1.0	40.5	70.0			4.2	~~ - ·
Lower-middle-income countries	39.8	66.3		39.4	64.6	40.3	68.1).9	3.6	*
Low-income countries	35.0	60.3	•	33.5	58.7	36.4	61.9		2.9	3.2	
Sub-Saharan Africa	36.2	57.2		34.9	55.9	37.5	58.4		2.5	2.5	
AFRICA	37.3	59.5	•	36.2	58.2	38.5	60.9		2.3	2.7	
Eastern Africa	37.0	60.5	+	35.6	58.9	38.4	62.2		2.8	3.3	
Burundi	39.0	56.1	+	37.5	54.2	40.6	58.0		3.1	3.9	
Comoros	38.7	62.8	•	37.5	61.2	40.0	64.5		2.5	3.3	
Djibouti	41.0	62.1		39.7 22 Q	60.0	42.4 27.0	65.2		1.0	3.Z	
Ethiopia	24.1	62.1	+	27.9	61.2	25 /	65.0		+.0 •	4.5	
Kenva	42.3	60.6	-	40.5	59.1	44 2	62.2		3.6	3.7	
Madagascar	36.3	64 5		35.3	63.0	37.4	66.0		20	3.0	
Malawi	36.3	61.0	-	35.8	59.9	36.7	62.0		0.9	2.1	
Mauritius ¹	50.2	74.1		49.0	70.7	51 5	77 7		2 5	7 1	, ····
Mavotte	47.3	79.3		44.9	76.0	50.6	82.9		5.7	6.9	
Mozambique	31.3	54.6		30.1	52.9	32.5	56.2		2.4	3.2	
Réunion	47.9	79.5		44.9	76.0	50.6	82.9		5.7	6.9	
Rwanda	40.0	63.1		38.5	59.7	41.6	66.3		3.1	6.7	
Seychelles	58.0	72.9		55.7	68.7	60.1	77.9	Ŏ.	1.4 🔴	9.2	
Somalia	34.0	54.9		32.5	53.3	35.5	56.5		3.0 🦲	3.2	
South Sudan	0 27.9	55.1	••	26.6	54.1	29.3	56.0		2.7 🌑	1.9	
Uganda	40.0	57.2		38.5	55.7	41.6	58.8		3.1 🔵	3.2	
United Republic of Tanzania ²	41.2	64.0		39.6	62.6	42.9	65.6		3.3 🔵	3.0	
Zambia	42.1	58.8		40.6	57.2	43.6	60.3		3.0 🔵	3.2	
Zimbabwe	48.5	54.8		47.0	53.6	50.1	56.0		3.1 🔵	2.4	
Middle Africa	36.7	55.6	•	35.1	54.3	38.2	57.0		3.1	2.7	
Angola	30.0	51.7	•	28.6	50.2	31.5	53.2		2.9 🔵	3.0	
Cameroon	38.5	54.9		37.2	53.7	39.9	56.0		2.7	2.3	
Central African Republic	33.4	49.5		32.0	47.8	34.9	51.3		2.9	3.4	
Chad	36.1	51.1	•	33.4	50.1	38.9	52.2		5.5	2.1	
Congo	43.2	61.4		42.3	60.0	44.1	62.9		1.8	3.0	
Democratic Republic of the Congo	39.1	58.1	++	37.6	56.7	40.4	59.5		2.8	2.9	
Equatorial Guinea	34.5	57.1	•	33.U 25 5	55.9 63 3	30.U	58.0			2.7	
Sao Tomo and Principo	- 57.0 - 16.1	66.7		55.5 45 1	64.2	30.0 49.0	68.2			4.0	
Northern Africa	40.4	70.5		43.1	68.6	48.0	72.4		1.8	3.8	
Algeria	42.9	74.4		42.3	72.1	43.5	76.8		1.3	4.7	
Egypt	41.1	70.8		40.6	68.7	41.6	73.1		1.0	4.3	-
Libya	36.7	71.5		35.6	68.8	37.9	74.4	ŏ	2.3	5.6	
Morocco	45.7	73.6	•	44.0	72.6	47.4	74.6		3.4	2.0	
Sudan	44.5	63.1	••	43.2	61.6	46.0	64.6	ŏ	2.8 🦲	3.0	
Tunisia	38.8	74.6	• • • •	37.8	72.3	39.9	77.0	Ĭ i	2.1 🦲	4.7	
Western Sahara	35.5	67.6	••	34.0	65.9	37.1	69.8		3.1 🦲	3.9	

United Nations Department of Economic and Social Affairs/Population Division World Mortality Report 2015

	Both sexes			Mala Famala				Absolute difference, years			
	Both sex	es		Male		Female		(female	e - male)		
Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-5	5 2010-15	1950-2015	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Southern Africa	44.7	57.1		43.6	55.0	45.8	59.0	2.	2 🥚 4.1		
Botswana	47.7	64.1		45.7	61.8	49.6	66.5	3.	9 🔴 4.7		
Lesotho	42.2	49.5		40.8	49.2	43.4	49.6	2.	5 🌒 0.4		
Namibia	41.7	64.3		39.5	61.6	44.1	67.0	4.	5 🔵 5.4		
South Africa	45.0	57.1		44.0	54.9	46.0	59.1	2.) 🔴 4.3		
Swaziland	41.4	49.2		39.4	49.7	43.4	48.5	4.	-1.2		
Western Africa ³	33.7	55.0		32.7	54.4	34.8	55.6	2.	1 🌒 1.2		
Benin	33.7	59.2	•	33.6	57.8	33.9	60.6	0.	3 🔵 2.8		
Burkina Faso	30.9	58.1		30.1	56.7	32.0	59.3	2.	2.6		
Cabo Verde	48.1	73.0	• • • •	46.9	71.1	49.1	74.7	2.	2 🔵 3.6	++	
Côte d'Ivoire	32.1	51.0		31.2	50.2	33.1	51.9	1.	3 🌒 1.6		
Gambia	30.3	59.8	• • • • •	29.1	58.5	31.4	61.2	2.	4 🌒 2.7	~~~	
Ghana	42.2	61.0	• • • •	41.9	60.1	42.4	62.0	0.	5 🌒 1.9		
Guinea	33.1	58.0		32.0	57.6	34.2	58.5	2.	3 🌒 0.9		
Guinea-Bissau	35.9	54.7	•	34.5	53.0	37.3	56.5	2.	3 🔵 3.5		
Liberia	33.1	60.3	••	30.8	59.3	35.9	61.2	5.	2 🌒 1.9		
Mali	27.0	57.2	••	26.3	57.4	27.7	57.0	1.	4 🔴 -0.5		
Mauritania	38.6	62.8	•	38.5	61.3	38.7	64.3	0.	2 🔵 3.0		
Niger	35.0	60.7		35.0	59.9	34.9	61.6	-0.	1 🌒 1.7		
Nigeria	34.0	52.3	• • • • •	32.7	52.0	35.4	52.6	2.	7 🌒 0.6	• • • •	
Senegal	35.5	65.8		34.8	63.9	36.1	67.6	1.	3 🔵 3.8	•	
Sierra Leone	28.8	50.2		27.1	49.7	30.6	50.7	3.	5 🌒 1.1	\sim	
Тодо	35.3	59.0		34.5	58.3	36.1	59.7	• 1.	5 🔵 1.4		
ASIA	42.1	71.6	•	41.3	69.7	43.0	73.6	1.	7 🔵 3.8		
Eastern Asia	45.2	76.6		43.7	74.7	46.8	78.6	3.	3.9	\sim	
China ⁴	43.4	75.4		42.1	74.0	44.8	77.0	2.	7 🔵 3.1	\sim	
China, Hong Kong SAR ⁵	63.2	83.7		59.0	80.9	66.4	86.6	7 .	4 🛑 5.7		
China, Macao SAR ⁶	61.0	80.3		59.4	78.1	62.4	82.5	3.	.4.4		
Dem. People's Republic of Korea	58.2	79.3		56.4	76.4	60.0	82.3	3.	5 🔵 5.9		
Japan	37.6	69.9		32.6	66.3	43.2	73.3	1 0.	5 🛑 7.0	\$	
Mongolia	62.2	83.3	•	60.4	80.0	63.9	86.5	3.	5 🔴 6.5		
Republic of Korea	43.2	68.9	•	41.5	64.8	44.9	73.3	3.	4 🔴 8.5		
Other non-specified areas	47.9	81.4	•	46.0	78.0	49.9	84.6	3.	8 🔴 6.7		
South-Central Asia ⁷	37.5	67.8	+	37.8	66.3	37.1	69.3	— -0. ⁻	7 🔵 3.0		
Central Asia	54.6	68.4		50.6	64.5	58.9	72.3	8.	3 🦲 7.8		
Kazakhstan	55.1	69.1		50.2	64.3	60.7	73.9	10.	5 🔵 9.6		
Kyrgyzstan	52.8	70.3		48.8	66.4	57.2	74.3	8.	5 🛑 7.9	• - ~	
Tajikistan	53.0	69.1		50.8	65.9	55.6	72.8	4.	9 🔴 6.9		
Turkmenistan	51.3	65.4		47.9	61.3	55.1	69.7	7 .	2 🔴 8.4		
Uzbekistan	55.8	68.2	• • •	52.4	64.9	59.4	71.6	7 .	0 🔴 6.7	•	
Southern Asia	37.0	67.7	•	37.5	66.4	36.5	69.2	- 0.9	9 🔵 2.8		
Afghanistan	28.6	59.8	•	28.0	58.7	29.4	61.1	1.	4 🔴 2.4		
Bangladesh	40.7	71.0		40.3	69.9	41.1	72.3	0.	3 🔵 2.4		
Bhutan	29.5	68.9	••	28.8	68.6	30.3	69.1	• 1.	5 🔴 0.5	·	
India	36.6	67.5	•	37.2	66.1	36.0	68.9	-1.	2 🔵 2.8		
Iran (Islamic Republic of)	40.6	7 5.1	• • • •	42.1	74.0	39.1	76.2	-3.	1 🔴 2.2		
Maldives	34.5	7 6.4	•	34.0	75.4	34.8	77.4	• 0.	в 🌒 2.0		
Nepal	34.0	69.0	•	33.8	67.6	34.2	70.5	• 0.4	4 🔵 2.8		
Pakistan	37.1	65.9	•	36.7	65.0	37.4	66.8	0.	7 🌒 1.9		
Sri Lanka	54.5	74.6	• • •	53.1	71.2	56.8	78.0	3.	7 🛑 6.8	~	

								Absolu	te differe	nce, years
	Both sexes			Male		Female		(fema	e - male)	
Country or area	1950-55 2	010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-5	5 2010-1	5 1950-2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
South-Eastern Asia	46.5	70.3		44.5	67.5	48.5	73.2	4	.0 🔵 5.	7
Brunei Darussalam	58.3	78.4		56.8	76.6	59.9	80.4	3	.2 3	8
Cambodia	40.3	67.6		39.0	65.5	41.7	69.6	2	.7 4	1
Indonesia	43.5	68.6		42.0	66.6	45.0	70.7	3	.0 4	1
Lao People's Democratic Republic	40.9	65.5		39.1	64.1	42.9	66.8	3	.8 🔴 2.	7
Malaysia ⁸	54.8	74.5	•	53.9	72.2	55.8	76.9	2	.0 4	7
Myanmar	36.1	65.6		33.1	63.6	39.3	67.7	6	.2 4	1
Philippines	55.4	68.0	•	54.1	64.7	56.7	71.6	2	.5 6.	8
Singapore	60.2	82.6	•	57.5	79.6	63.0	85.6	5	.5 🔴 6.	0
Thailand	50.8	74.1		48.3	70.8	53.6	77.6	5	.3 🦲 6.	8
Timor-Leste	30.0	67.7		29.6	66.1	30.4	69.5	0	.8 🔵 3.	5
Viet Nam	53.5	75.6		50.8	70.7	56.5	80.3	5	.8 🦲 9.	6
Western Asia	43.8	72.7		41.6	70.0	46.3	75.6	4	.7 🔵 5.	6
Armenia	62.8	74.4		59.7	70.7	65.9	78.4	6	.2 🔴 7.	7
Azerbaijan ⁹	58.0	70.6		54.4	67.5	61.5	73.8	7	.1 🔴 6.	2
Bahrain	43.0	76.4		39.7	75.6	47.0	77.4	7	.4 1	8
Cyprus ¹⁰	66.7	79.9		64.8	77 7	68.7	82.2	3	9 6 4	5
Coorgia ¹¹	60.6	746		54.0 E6 7	70.0	64.4	70 1			2
Georgia		60.2		27.0	67.0	20 0	70.1		./ . /	
liay	68.0	09.2 ·		57.0 67.5	80.2	50.9 70.2	71.4 02.0		.9 4 .	5
lordan	46.5	73.8	•	07.5 47.1	72.2	70.3 15 Q	75 5	-1	2 3 3	3
Kuwait	53.4	713		52.5	72.2	4J.5 54 7	75.5	2	2 3 .	2
Lebanon	60.5	78.9	•	58.9	77.1	62.2	80.9	3	3 3 3	7
Oman	36.1	76.4	•	35.6	74 7	36.5	78.9		9 1 4	2
Oatar	55.2	77.9	•	52.7	77 1	57.9	79.7	5	2 2 2	6
Saudi Arabia	41 9	74.1	-	40.0	72.8	44 1	75.5		1 2	7
State of Palostino ¹²	11.5	726		10.0	70.7	18.0	74.7		2 2	
Surian Arab Popublic	40.0	60.5		44.7	64.0	40.5	76.2	4	2 - 12	2
	48.7	7/ 8	•	40.J 38 1	71 5	40.0	70.3	6	1 6	5
United Arab Emirates	41.0	74.0	•	41 O	76.0	44.2	78.2	6		2
Vemen	34.7	63.5		33.6	62.2	35.9	64.9		3 2	7
FUROPE	63.6	77.0		60.9	73.4	66.1	80.6	5	2 7	1
Eastern Europe	60.3	71.9		56.9	66.9	63.2	76.8	6	.3 9	9
Belarus	60.7	71.1		57.6	65.3	63.4	77.0	5	.8 11.	7
Bulgaria	62.1	74.0		60.5	70.6	63.7	77.6	3	.2 6	9
Czech Republic	66.4	78.3		63.9	75.4	68.8	81.3	4	.9 6 5.	9
Hungary	64.0	75.0		61.9	71.2	66.1	78.5	4	.2 🔴 7.	3
Poland	61.4	77.1		58.6	73.1	64.2	81.1	5	.6 🔴 8.	1
Republic of Moldova ¹³	59.0	713		55.0	67.2	63.0	75 4	8	0 8	2 ~ ~
Romania	61.1	74.5		59.4	70.9	62.8	78.1	3	.0 0 0	1
Russian Federation	58.5	69.8		53.9	64.2	62.0	75.6	8	.1 11	4
Slovakia	64.5	76.0		62.5	72.2	66.3	79.7	3	.8 7.	5
Likraine ¹⁴	61.8	70.7	·	58.7	65.7	64.3	75.7	5	6 9	
Northorn Europa ¹⁵		90.1		66.2	77 0	71.2	07.2			
	00.0	00.1	-	00.5	77.0	71.2	02.5	4	.9 4.	
Channel Islands	69.2	80.4		66.6	/8.5	/1./	82.4	5	.1 3.	g ·
Denmark	/0.9	80.0		69.6	78.0	/2.3	81.9	2	.o 🗾 3.	y 🗸 🔪
	61.8	/6.5		57.1	/1.6	65.5	81.1	8	.4 🛑 9.	5
Finland	66.1	80.5		62.7	77.6	69.3	83.4	6	.7 🛑 5.	8
Iceland	72.0	82.3		69.9	80.7	74.3	83.8	4	.4 🔵 3.	1
Ireland	66.7	80.6		65.4	78.4	68.1	82.7	2	.7 🔵 4.	3
Latvia	62.4	73.9		58.2	68.9	65.9	78.7	7	.7 🛑 9.	8
Lithuania	60.8 🛑	73.1		57.3	67.4	64.0	78.8	6	.7 🛑 11.	4

Image: bases Male Family Control rote and second secon		Both sexes									Absolute difference, years			
Country or are 1950-15 1950-201 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 1950-202 71.0 81.3 71.0 81.3 71.0 81.3 71.0 81.3 71.0 81.3 71.0 81.3 71.0 81.3 71.0 81.3 71.0 81.3 71.0 81.0 71.0 81.1 71.0 81.0 71.0 <t< th=""><th></th><th>Both sexe</th><th>es</th><th></th><th>Male</th><th></th><th>Female</th><th></th><th>(fem</th><th>ale -</th><th>male)</th><th></th></t<>		Both sexe	es		Male		Female		(fem	ale -	male)			
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) Norway ³ 72.7 81.3 70.9 79.2 74.4 83.4 3.6 4.2 United Kingdom 69.3 80.4 66.5 78.5 71.8 82.4 5.1 3.9 Southern Europe ³ 63.5 77.5 54.4 75.0 55.1 80.2 1.7 5.1 Boshia and Herzegovina 63.7 76.3 75.6 54.4 75.0 55.1 80.2 8.0 6.0 Creata 65.7 76.3 72.6 67.7 81.8 8.2 3.7 5.0 Maha 66.3 87.6 67.8 83.5 5.0 7.7 1.8 6.7 8.3 7.0 5.0 6.0 7.7 7.1 8.0.5 5.7 7.18 8.0.5 5.0 7.7 5.0 8.0 5.0 5.0 5.0 5.1 7.7 5.0 8.0 <th>Country or area</th> <th>1950-55</th> <th>2010-15</th> <th>1950-2015</th> <th>1950-55</th> <th>2010-15</th> <th>1950-55</th> <th>2010-15</th> <th>1950</th> <th>-55</th> <th>2010-15</th> <th>1950-2015</th>	Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950	-55	2010-15	1950-2015		
bioway ¹⁶ 72.7 81.3 70.3 80.1 71.8 83.4 8.4 8.4 9.5 9.5 Sweden 71.7 81.9 70.3 80.1 71.8 83.7 72.8 3.6 9.4 Municd Kingdom 63.3 81.2 77.5 72.8 82.4 9.1 9.9 9.5	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
sweeden 71.7 813 70.3 80.1 73.1 83.7 2.8 3.6 Southern Europe ¹⁹ 63.5 81.2 61.5 78.4 65.4 82.4 5.1 7.7 Albania 53.3 77.3 7.6 7.6 7.7 88.8 2.0 5.1 7.6 Greece 6.7.7 7.6 7.6 6.7.7 7.8 8.0 0.0 7.6 7.7 7.8 8.0 0.0 7.6 7.7 7.8 8.0 0.0 7.6 7.7 7.8 7.6 7.7 7.8 8.0 0.0 7.6 7.7 7.8 8.0 7.0 7.6 7.7 7.4 8.3 8.0 6.1 7.5 2.8 5.1 7.6 7.7 7.4 8.3 8.0 5.0 7.5 2.8 5.1 7.6 8.1 8.1 8.1 8.0 5.0 5.1 7.6 8.1 8.1 8.1 8.0 5.0 5.1 7.6	Norway ¹⁸	72.7	81.3		70.9	79.2	74.4	83.4		3.6	4.2			
United Kingdom 69.3 80.4 66.7 78.5 71.8 82.4 5.1 3.9 Southern Europe ¹⁹ 63.5 81.2 61.5 78.4 65.4 83.9 3.9 5.4 Bosnia and Herzgovina 53.3 77.3 54.4 75.5 61.6 80.2 1.7 78.4 67.7 78.8 6.2 5.1 4.4 7.6 61.8 80.2 6.7 78.6 63.8 7.6 67.7 78.8 6.7 78.6 67.7 78.8 67.7 78.9	Sweden	71.7	81.9		70.3	80.1	73.1	83.7	ŏ	2.8	3.6			
Souther Europe ¹⁹ 63.5 81.2 61.5 78.4 65.4 83.9 9.9 5.4 Albania 55.3 77.5 5.4 75.0 56.1 80.2 1.7 5.1 Greace 65.7 76.3 76.6 77.6 83.6 6.31 80.4 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 6.0 4.0 7.0 7.6 6.7 7.6 6.7 7.6 6.7 8.0 6.0 7.7 4.6 6.7 8.0 5.0 7.7 7.8 6.0 7.7 2.8 5.7 7 7.4 6.23 8.1 7.8 6.0 7.7 9.8 5.0 7.7 9.8 5.0 7.7 9.8 5.0 7.7 9.8 7.7 9.8 7.7	United Kingdom	69.3	80.4		66.7	78.5	71.8	82.4	Ŏ	5.1	3.9			
Albania 55.3 77.5 54.4 75.0 56.1 80.2 1.7 51.7 Bosnia and Herzegovina 63.7 76.3 52.6 77.7 54.7 78.8 2.0 51.7 Greece 65.7 80.6 63.8 77.6 63.8 77.6 63.1 80.4 3.8 6.7 Malta 65.1 80.3 76.6 58.1 78.8 61.3 82.4 6.7 83.6 6.7 83.6 6.7 83.6 6.7 83.6 6.7 83.6 6.7 83.6 6.7 83.6 6.7 78.6 77.8 78.7 5.3 6.1 77.7 71.8 6.7 77.5 2.8 5.7 77.5 0.0 4.6 6.7 5.9 77.5 77.8 77.5 0.0 4.6 6.7 5.9 6.8 77.7 77.4 8.0 77.5 7.0 77.4 8.0 77.5 7.0 77.8 0.0 4.6 6.7 7.5 7.6 8.8 7.5 7.6 8.8 7.5 7.5 7.5 7.5 <	Southern Europe ¹⁹	63.5	81.2		61.5	78.4	65.4	83.9		3.9	5.4	-		
Bosnia and Herzegovina 53.7 75.3 52.6 73.7 54.7 78.8 0.0 51.1 Craalia 66.3 77.0 59.3 77.6 61.8 80.4 38 6.7 Greace 65.7 80.6 63.8 77.6 67.7 83.6 6.0 6.0 Italy 66.3 82.8 64.4 80.3 68.1 85.2 3.7 5.0 Portugal 59.8 76.0 75.8 77.7 78.8 61.3 78.2 3.2 4.4 Montenegro 59.8 76.0 75.8 77.7 77.8 60.5 77.5 2.0 0.1 4.6 5.6 Solvenia 50.6 80.1 63.0 76.9 68.1 83.1 64.6 85.1 64.6 85.1 64.6 85.1 64.6 5.6 77.7 77.8 78.5 70.8 78.5 70.8 78.5 70.8 78.5 70.8 78.5 70.8 78.5 70.8 78.5 70.8 78.5 78.8 76.5 88.8 6.1 <td< td=""><td>Albania</td><td>55.3</td><td>77.5</td><td></td><td>54.4</td><td>75.0</td><td>56.1</td><td>80.2</td><td></td><td>1.7</td><td>5.1</td><td></td></td<>	Albania	55.3	77.5		54.4	75.0	56.1	80.2		1.7	5.1			
Coatia 61.3 70 93.3 73.6 61.1 80.4 9.8 6.7 Greece 66.3 82.8 64.4 80.3 65.7 78.6 67.7 83.6 9.0 6.0 Malta 66.3 82.8 64.4 80.3 68.1 82.2 9.7 8.0 7.0 7.4 62.3 83.5 9.3 0.4 4.4 Portugal 93.7 80.5 57.0 77.4 62.3 83.5 5.3 6.1 Spain ² 95.0 76.6 80.1 63.0 70.7 71.8 60.6 80.1 63.0 75.9 77.5 9.0 6.6 Spain ² 54.9 75.2 54.9 77.2 9.75.5 80.8 85.6 52.0 51.1 63.0 81.1 63.6 81.1 83.4 6.9 82.0 51.1 63.0 81.1 63.6 83.1 83.9 5.0 51.1 77.0 83.0 5.0 51.1 77.0 83.0 5.0 51.1 77.0 83.0 5.0 51.1 51.	Bosnia and Herzegovina	53.7	76.3		52.6	73.7	54.7	78.8	ŏ	2.0	5.1	-		
Greece 65.7 80.6 63.8 77.7 83.6 0.4 0.6 0.4 Italy 66.1 80.3 62.8 77.6 67.7 83.6 0.3 0.4 Matta 66.1 80.3 64.5 76.6 67.8 82.0 0.3 0.4 Portugal 597 80.5 77.7 77.4 60.5 77.5 2.8 5.7 Sterbia ²⁰ 59.1 74.6 77.7 78.8 60.5 77.7 7.8 60.6 77.7 7.8 60.7 78.5 70.8 8.7 78.5 70.8 8.7 78.5 70.8 8.7 78.5 70.8 8.7 7.5 0.0 0.4 6.4 5.6 6.1 78.5 70.8 78.5 70.8 78.5 70.8 78.5 70.8 78.5 70.8 79.6 8.1 7.4 6.4 8.9 8.9 9.9 6.1 7.1 8.1 76.7 8.1.0 78.5 70.8 8.3 9.6 7.1 8.1 7.6 78.5 78.8 8.9	Croatia	61.3	77.0	++	59.3	73.6	63.1	80.4	Õ	3.8	6.7			
taly 66.3 82.8 64.4 80.3 63.1 82.2 3.7 5.0 Mata 66.1 80.3 64.4 80.5 78.6 67.8 82.2 3.2 3.4 4.4 Portugal 59.7 80.5 76.0 58.1 73.8 61.3 78.2 3.2 3.4 4.4 Portugal 59.7 80.5 77.0 77.4 62.3 83.5 5.3 6.1 Speini ²³ 65.6 80.1 63.0 76.9 68.1 83.1 5.1 6.2 Spein ²¹ 65.6 80.1 63.0 76.9 68.1 83.1 5.0 5.1 TKPK Nacedonia ²² 67.6 81.1 63.6 78.5 70.0 83.7 4.8 5.2 5.1 Vactria 67.6 80.5 65.1 78.0 70.1 83.0 5.0 5.1 7.2 83.7 5.9 6.1 Germany 67.6 81.3 70.6 79.4 7.2 83.7 5.0 7.7 4.8 4.9 4.9	Greece	65.7	80.6	••	63.8	77.6	67.7	83.6		4.0	6.0			
Malta 6.6.1 80.3 64.5 78.6 67.8 82.0 9.3.3 3.4 Portugal 59.8 76.0 55.1 71.8 60.1 82.0 9.3.0 3.4 4.4 Portugal 59.7 80.5 57.0 77.4 62.3 83.2 9.2 4.4 Serbia ³⁰ 59.1 74.6 57.7 71.8 60.5 75.1 62.2 5.5 61.1 83.1 4.6 5.6 6.1 63.0 7.9 54.9 72.9 54.9 72.9 54.9 72.5 6.8 83.1 4.6 5.6 6.1 7.8 7.0 82.7 7.0 82.7 7.0 83.7 7.0 83.7 7.0 83.7 7.0 83.7 7.0 83.7 7.0 83.7 7.0 83.7 7.0 83.7 83.0 5.0 5.1 6.1 7.3 84.9 5.9 6.1 7.3 84.9 5.9 6.1 7.3 84.9 5.9 6.1 7.3 84.9 5.9 6.1 7.3 8.7 7.8 8.1	Italy	66.3	82.8	••	64.4	80.3	68.1	85.2		3.7 (5.0			
Montenegro 95.8 76.0 58.1 73.8 61.3 78.2 9.3.2 4.4 Serbia ²⁰ 95.7 80.5 77.0 77.4 60.3 78.5 5.2 6.5 6.5 Sorbia ²⁰ 65.6 80.1 65.0 76.9 68.1 83.1 5.1 6.2 Spain ²¹ 64.2 82.2 65.3 78.5 70.0 83.7 4.6 5.0 TFYR Macedonia ²² 65.3 78.5 70.0 83.0 5.0 5.1 7.6 8.0 5.0 5.1 7.6 8.0 5.0 5.1 7.6 8.0 5.0 5.1 7.8 7.00 83.0 5.0 5.1 7.8 7.0 8.0 5.0 5.1 7.6 8.0 5.0 5.1 7.0 7.4 8.0 5.0 5.1 7.0 7.4 8.0 7.0 8.0 7.2 8.0 8.0 5.0 5.1 7.0 7.0 8.0 7.0 7.0 8.0 7.0 7.0 8.0 7.0 7.0 7.0 7.0 <td< td=""><td>Malta</td><td>66.1</td><td>80.3</td><td>•</td><td>64.5</td><td>78.6</td><td>67.8</td><td>82.0</td><td></td><td>3.3 (</td><td>3.4</td><td>\sim</td></td<>	Malta	66.1	80.3	•	64.5	78.6	67.8	82.0		3.3 (3.4	\sim		
Portugal 53.7 80.5 57.0 77.4 62.3 83.5 5.3 6.1 Serbia ²⁰ 59.1 74.6 57.7 71.8 60.5 77.5 2.8 5.7 Spain ²¹ 64.2 82.3 61.8 79.4 66.4 85.1 9.1 5.6 TYR Macedonia ²² 54.9 72.9 54.9 77.5 0.0 4.6 5.6 Western Europe ²³ 67.0 81.2 65.3 78.5 60.8 83.1 0.46 5.1 France 67.6 80.5 65.1 78.0 78.2 69.6 83.1 0.3 0.5 5.1 Germany 67.6 80.6 65.3 78.2 69.6 83.1 0.4.3 4.9 Uwerbourg 67.6 80.7 70.8 7.9 0.8.1 6.1 78.0 80.4 6.2 78.9 69.0 83.1 6.2 3.8 6.2 78.9 6.1 78.0 6.4 4.3 4.7 4.6 4.3 4.7 4.6 4.3 4.7 4.6 <td< td=""><td>Montenegro</td><td>59.8</td><td>6.0</td><td>+</td><td>58.1</td><td>73.8</td><td>61.3</td><td>78.2</td><td></td><td>3.2 (</td><td>4.4</td><td>\checkmark</td></td<>	Montenegro	59.8	6.0	+	58.1	73.8	61.3	78.2		3.2 (4.4	\checkmark		
Serbia ²⁰ 59.1 74.6 57.7 71.8 60.5 77.5 2.8 5.7 Slovenia 6.6.4 80.1 63.0 76.9 68.1 83.1 5.1 6.2 Spain ²¹ 6.4.2 82.3 6.8 75.9 75.9 0.0 4.6 Western Europe ²³ 67.7 81.2 65.3 78.5 70.0 8.7 4.6 5.5 Prince 67.6 80.5 65.1 78.5 70.6 83.7 5.9 6.1 France 67.6 80.5 65.1 78.2 69.6 83.1 4.3 4.9 Germany 67.5 80.6 65.3 78.2 69.6 83.1 4.3 4.9 Netherlands 67.1 81.3 70.6 79.4 79.0 8.4 6.4 4.3 Switzerland 63.2 72.4 70.0 80.4 71.6 8.4 4.6 4.3 Caribaen ^{2*} 72.0 73.4 59.1 72.9 73.7 8.4 6.7 4.9 Caribaen	Portugal	59.7	80.5	•	57.0	77.4	62.3	83.5		5.3 (6.1			
Slovenia 65.6 80.1 63.0 76.9 68.1 83.1 5.1 6.2 Spain ²¹ 64.2 82.3 61.8 79.4 66.4 85.1 9.6 5.6 Western Europe ²³ 67.7 81.2 65.3 78.5 70.0 83.7 0.0 4.6 5.6 Western Europe ²³ 67.6 80.5 65.1 78.0 70.1 83.0 5.0 5.1 France 67.1 81.8 64.1 78.5 68.8 83.1 0.0 6.1 Germany 67.5 80.6 65.3 78.2 69.6 83.1 0.4.7 4.9 Netherlands 71.9 81.3 70.6 79.4 73.2 83.1 2.6 3.8 Switzerland 65.2 78.4 45.0 83.1 2.5 4.7 Artigua and Barbuda 52.0 72.4 50.6 69.7 73.5 2.5 4.9 Aruba 60.0 73.2 74.7 50.6 73.8 72.7 4.5 4.9 Carbbear	Serbia ²⁰	59.1	74.6		57.7	71.8	60.5	77.5		2.8	5.7			
Spain 21 64.2 82.3 61.8 79.4 66.4 85.1 4.6 5.6 TFW Macedonia 22 5.9 75.2 5.9 72.9 54.9 77.5 0.0 4.6 Western Europe 31 66.3 81.1 63.6 78.5 68.8 83.6 5.2 5.1 Prince 67.1 81.8 64.1 78.5 68.8 83.6 5.0 5.1 France 67.1 81.8 64.1 78.8 69.9 84.9 5.9 6.1 Germany 67.5 80.6 65.3 78.2 68.6 83.1 4.3 4.9 Wetherlands 71.9 81.3 70.6 79.4 73.2 83.1 4.6 4.3 4.6 4.3 4.6 4.3 4.6 4.3 4.6 4.3 4.6 4.3 4.6 4.3 4.6 4.3 4.6 4.3 4.6 4.3 4.6 4.4 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.7 4.6 4.2 <td>Slovenia</td> <td>65.6</td> <td>80.1</td> <td>••</td> <td>63.0</td> <td>76.9</td> <td>68.1</td> <td>83.1</td> <td></td> <td>5.1</td> <td>6.2</td> <td></td>	Slovenia	65.6	80.1	••	63.0	76.9	68.1	83.1		5.1	6.2			
TFYR Macedonia ²⁷ 54.9 75.2 54.9 72.9 54.9 77.5 0.0 4.6 Western Europe ¹³ 67.7 81.2 65.3 78.5 70.0 83.7 4.8 5.2 Austria 66.3 81.1 66.3 78.5 66.8 88.6 5.2 5.1 Belgium 67.6 80.5 65.1 78.0 70.1 83.0 5.0 5.1 France 67.1 81.8 64.1 78.8 69.0 83.7 5.9 4.7 Germany 66.0 81.3 63.2 78.9 69.0 83.7 5.9 4.7 Netherlands 71.9 81.3 70.6 70.4 73.2 83.0 6.7 Caribbean ²⁴ 52.0 72.4 49.5 71.2 53.0 77.9 3.4 6.7 Antigua and Barbuda 60.4 75.4 49.5 71.2 53.0 77.7 4.9 4.9 Aruba 60.4 75.4 59.1 72.9 59.3 77.7 4.9 4.6 4.9	Spain ²¹	64.2	82.3		61.8	79.4	66.4	85.1		4.6	5.6			
Western Europe ¹³ 67.7 81.2 65.3 78.5 70.0 83.7 4.8 5.2 Austria 66.3 81.1 63.6 78.5 68.8 83.6 5.2 5.1 France 67.6 80.5 65.1 78.0 70.1 83.0 5.0 5.1 Germany 67.5 80.6 65.3 78.2 69.6 83.1 4.3 4.9 Luxembourg 66.0 81.3 70.6 79.4 73.2 83.1 2.6 3.8 Vattriand 69.3 82.7 67.0 80.4 71.6 84.7 4.6 4.3 Vattriand 69.3 82.7 67.0 80.4 71.6 84.7 4.6 4.3 Caribbean ²⁴ 52.0 72.4 50.6 69.7 53.5 75.2 2.9 5.5 4.7 4.9 4.7 4.9 4.7 4.9 4.7 4.9 4.7 4.9 4.7 4.9 4.7 4.9 4.7 4.8 4.1 7.7 8.5 7.2 5.9 7.7	TFYR Macedonia ²²	54.9	75.2		54.9	72.9	54.9	77.5		0.0	4.6			
Austria 66.3 81.1 63.6 78.5 68.8 83.6 5.2 5.1 Pelgium 67.6 80.5 65.1 78.0 70.1 83.0 5.0 5.1 France 67.1 81.8 64.1 78.8 69.9 83.1 4.3 4.9 Germany 67.5 80.6 65.3 78.2 69.0 83.1 4.3 4.9 Netherlands 71.9 81.3 70.6 79.4 73.2 83.1 2.6 3.8 Caribbean ² 52.0 72.4 49.5 71.2 53.0 77.9 3.4 6.7 Caribbean ² 52.0 75.8 56.0 73.3 60.8 78.2 4.7 4.9 Aruba 60.0 75.4 52.0 75.8 57.0 61.4 78.8 3.0 61.1 78.8 51.0 61.4 78.9 54.9 4.9 Aruba 60.0 73.2 75.8 77.1 61.3 81.3 3.5 4.2 4.7 Cuba Curaa 56.3 </td <td>Western Europe²³</td> <td>67.7</td> <td>81.2</td> <td></td> <td>65.3</td> <td>78.5</td> <td>70.0</td> <td>83.7</td> <td></td> <td>4.8</td> <td>5.2</td> <td></td>	Western Europe ²³	67.7	81.2		65.3	78.5	70.0	83.7		4.8	5.2			
Belgium 67.6 80.5 65.1 78.0 70.1 83.0 5.0 5.1 France 67.1 81.8 64.1 78.8 69.9 84.9 5.9 6.1 Germany 66.0 81.3 63.2 78.2 69.0 83.7 5.9 4.7 Netherlands 71.9 81.3 70.6 79.4 73.2 83.1 2.6 3.8 Valtzerland 69.3 82.7 7.0 80.4 71.6 84.7 4.6 4.3 Valtzerland 69.3 82.7 7.2 53.0 77.9 3.4 6.7 Caribbean ⁴ 52.0 72.4 50.6 69.7 73.3 60.8 78.2 9.4 9.4 Aruba 60.4 75.4 59.1 72.9 61.6 77.8 2.5 4.9 Bahamas 60.0 75.1 55.8 72.0 61.4 78.1 3.0 6.1 Grenado 65.3 73.2 57.4 73.7 62.2 80.7 3.2 6.2 Oba	Austria	66.3	81.1		63.6	78.5	68.8	83.6		5.2	5.1			
France 67.1 81.8 64.1 78.8 69.9 84.9 5.9 6.1 Germany 67.5 80.6 65.3 78.2 69.6 83.1 4.3 4.9 Lwembourg 66.0 81.3 65.3 78.2 69.6 83.1 4.3 4.9 Netherlands 71.9 81.3 70.6 79.4 73.2 83.1 2.6 3.8 Switzerland 69.3 82.7 67.0 80.4 71.6 84.7 4.6 4.3 Caribbean ⁴ 52.0 72.4 50.6 69.7 53.5 75.2 2.9 5.5 Antigua and Barbuda 58.5 75.8 55.1 72.9 59.3 77.7 4.5 4.8 Guadeloupe 57.2 75.4 57.7 72.9 59.3 77.7 4.5 4.8 Cuba 57.2 75.4 57.8 77.1 61.3 81.3 3.5 4.2 Curaçao 60.7 77.8 59.3 77.7 4.5 4.8 4.4 4.4 4.8	Belgium	67.6	80.5		65.1	78.0	70.1	83.0	ŏ	5.0	5.1	<u> </u>		
Germany 67.5 80.6 65.3 78.2 69.6 83.1 4.3 4.9 Luxembourg 66.0 81.3 78.9 69.0 83.7 5.9 4.7 Netherlands 71.9 81.3 70.6 79.4 73.2 83.1 2.6 3.8 Switzerland 69.3 82.7 67.0 80.4 71.6 84.7 4.6 4.3 LATIN AMERICA AND THE CARIBBEAN 51.2 74.5 49.5 71.2 53.0 77.9 3.4 6.7 Caribbean ²⁴ 52.0 72.4 50.6 69.7 53.5 75.2 2.9 5.5 Antigua and Barbuda 60.0 75.1 58.5 72.0 61.6 77.8 2.5 4.9 Barbados 57.2 75.4 59.1 72.9 59.3 77.7 4.5 4.8 Cuba 59.4 79.2 57.8 77.1 61.3 81.3 3.5 4.2 Curaçao 60.0 73.2 59.1 74.5 62.2 80.7 5.2 60.7 5.	France	67.1	81.8		64.1	78.8	69.9	84.9	ŏ	5.9	6.1			
Luxembourg 66.0 81.3 63.2 78.9 69.0 83.7 5.9 4.7 Netherlands 71.9 81.3 70.6 79.4 73.2 83.1 2.6 3.8 LATIN AMERICA AND THE CARIBBEAN 51.2 74.5 49.5 71.2 53.0 77.9 3.4 6.7 Caribbean ³⁴ 52.0 72.4 50.6 69.7 53.5 75.2 2.9 5.5 Antigua and Barbuda 58.5 75.8 56.0 73.3 60.8 78.2 4.9 4.6 Aruba 60.0 75.1 58.5 72.0 61.4 78.1 3.0 6.1 Barbados 57.2 75.4 59.1 74.5 62.2 80.7 3.2 6.2 Curaçao 60.7 77.8 59.1 74.5 62.2 80.7 3.2 6.2 4.8 Garieda 56.3 73.2 54.4 70.2 47.3 76.5 2.6 6.3 Guadelouge ²⁵ 53.3 80.5 51.5 76.8 54.4 0.25 <t< td=""><td>Germany</td><td>67.5</td><td>80.6</td><td>••</td><td>65.3</td><td>78.2</td><td>69.6</td><td>83.1</td><td>ŏ</td><td>4.3</td><td>4.9</td><td></td></t<>	Germany	67.5	80.6	••	65.3	78.2	69.6	83.1	ŏ	4.3	4.9			
Netherlands 71.9 81.3 70.6 79.4 73.2 83.1 2.6 3.8 Switzerland 65.3 82.7 67.0 80.4 71.6 84.7 4.6 4.3 LATIN AMERICA AND THE CARIBBEAN 51.2 74.5 49.5 71.2 53.0 77.9 3.4 6.7 Caribbean ²⁴ 52.0 72.4 50.6 69.7 53.5 75.2 2.9 5.5 Antigua and Barbuda 58.5 75.8 56.0 73.3 60.8 78.2 4.7 4.9 Bahamas 60.0 75.1 58.5 72.0 61.4 78.1 3.0 6.1 Barbados 59.4 79.2 57.8 77.1 61.3 81.3 3.5 4.2 Cuba 59.4 79.2 57.8 77.1 61.3 81.3 3.5 4.2 Curaçao 60.0 73.2 44.7 70.2 47.3 76.5 2.6 6.3 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 <	Luxembourg	66.0	81.3	••	63.2	78.9	69.0	83.7		5.9	4.7			
Switzerland 69.3 82.7 67.0 80.4 71.6 84.7 4.6 4.3 LATIN AMERICA AND THE CARIBBEAN 51.2 74.5 49.5 71.2 53.0 77.9 3.4 6.7 Caribbean ²⁴ 52.0 72.4 50.6 69.7 53.5 75.2 2.9 5.5 Antigua and Barbuda 58.5 75.8 75.1 58.5 72.0 61.4 78.1 3.0 6.1 Barbados 57.2 75.4 59.1 72.9 61.6 77.8 2.5 4.9 Cuba 59.4 79.2 57.8 77.1 61.3 81.3 3.5 4.2 Curaçao 60.7 77.8 59.1 74.5 62.2 80.7 3.2 6.2 Dominican Republic 66.3 73.2 44.7 70.2 47.3 76.5 2.6 6.3 Gruadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 7.2 Jamaica 55.6 81.2 54.4 70.8 54.4 2.5	Netherlands	71.9	81.3	••	70.6	79.4	73.2	83.1		2.6	3.8			
LATIN AMERICA AND THE CARIBBEAN 51.2 74.5 49.5 71.2 53.0 77.9 3.4 6.7 Caribbean ²⁴ 52.0 72.4 50.6 69.7 53.5 75.2 2.9 5.5 Antigua and Barbuda 58.5 75.8 56.0 73.3 60.8 78.2 4.7 4.9 Antuba 60.4 75.4 59.1 72.9 61.6 77.8 2.2.5 4.9 Bahamas 60.0 75.1 58.5 72.0 61.4 78.1 3.0 6.1 Cuba 57.2 75.4 54.7 72.9 59.3 77.7 4.5 4.8 Cuba Cuba 60.7 77.8 52.2 80.7 3.2 62.2 Dominican Republic 46.0 73.2 44.7 70.2 47.3 76.5 2.6 6.3 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 7.2 Haiti 37.5 62.3 75.4 57.1 73.1 60.0 77.9 2.9 <td< td=""><td>Switzerland</td><td>69.3</td><td>82.7</td><td>••</td><td>67.0</td><td>80.4</td><td>71.6</td><td>84.7</td><td></td><td>4.6</td><td>4.3</td><td></td></td<>	Switzerland	69.3	82.7	••	67.0	80.4	71.6	84.7		4.6	4.3			
Caribbean ²⁴ 52.0 72.4 50.6 69.7 53.5 75.2 2.9 5.5 Antigua and Barbuda 58.5 75.8 56.0 73.3 60.8 78.2 4.7 4.9 Aruba 60.4 75.4 59.1 72.9 61.6 77.8 2.5 4.9 Bahamas 60.0 75.1 58.5 72.0 61.4 78.1 0.0 6.1 Barbados 57.2 75.4 54.7 72.9 59.3 77.7 4.5 4.8 Cuba 59.4 79.2 57.8 71.1 61.3 81.3 3.2 6.2 4.8 Curaçao 60.0 73.2 44.7 70.2 47.3 76.5 2.6 6.3 Guadeloupe ²⁵ 53.3 80.5 51.5 57.6 8.44 9.8 0 3.4 4.8 Guadeloupe ²⁵ 53.3 80.5 51.5 57.6 8.44 2.5 4.2 4.8 Jamaica 58.6 75.4 57.1 73.1 60.0 77.9 2.9	LATIN AMERICA AND THE CARIBBEAN	51.2	74.5	•	49.5	71.2	53.0	77.9	\bigcirc	3.4 (6.7			
Antigua and Barbuda 58.5 75.8 56.0 73.3 60.8 78.2 4.7 4.9 Aruba 60.4 75.4 59.1 72.9 61.6 77.8 2.5 4.9 Bahamas 60.0 75.1 58.5 72.0 61.4 78.1 3.0 6.1 Barbados 57.2 75.4 54.7 72.9 59.3 77.7 4.5 4.2 Cuba 59.4 79.2 57.8 77.1 61.3 81.3 3.5 4.2 Dominican Republic 46.0 73.2 54.4 70.8 57.9 75.6 3.4 4.8 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 7.2 Haiti 37.5 62.3 36.2 60.2 38.8 64.4 2.5 4.2 Jamaica 55.6 75.4 57.1 73.1 60.0 77.9 2.9 4.8 Martinique 55.6 74.8 49.6 72.2 74.9 2.5 4.2 Saint Lu	Caribbean ²⁴	52.0	72.4		50.6	69.7	53.5	75.2		2.9	5.5			
Aruba 60.4 75.4 59.1 72.9 61.6 77.8 2.5 4.9 Bahamas 60.0 75.1 58.5 72.0 61.4 78.1 3.0 6.1 Barbados 57.2 75.4 54.7 72.9 59.3 77.7 4.5 4.8 Cuba 59.4 79.2 57.8 77.1 61.3 81.3 3.5 4.2 Curaçao 60.7 77.8 59.1 74.5 62.2 80.7 3.2 6.2 Dominican Republic 46.0 73.2 54.4 70.8 57.9 75.6 3.4 4.8 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 7.2 Haiti 37.5 62.3 36.2 60.2 38.8 64.4 2.5 4.2 Jamaica 58.6 75.4 77.1 73.1 60.0 77.9 2.9 4.8 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 <td< td=""><td>Antigua and Barbuda</td><td>58.5</td><td>75.8</td><td>•</td><td>56.0</td><td>73.3</td><td>60.8</td><td>78.2</td><td></td><td>4.7 (</td><td>4.9</td><td></td></td<>	Antigua and Barbuda	58.5	75.8	•	56.0	73.3	60.8	78.2		4.7 (4.9			
Bahamas 60.0 75.1 58.5 72.0 61.4 78.1 3.0 6.1 Barbados 57.2 75.4 57.7 72.9 59.3 77.7 4.5 4.8 Cuba 59.4 79.2 57.8 77.1 61.3 81.3 3.5 4.2 Curaçao 60.0 77.8 59.1 74.5 62.2 80.7 3.2 6.2 Dominican Republic 46.0 73.2 44.7 70.2 47.3 76.5 2.6 6.3 Graadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 4.8 Jamaica 58.6 75.4 57.1 73.1 60.0 77.9 2.9 4.2 Martinique 55.6 81.2 54.2 77.8 56.9 84.4 2.7 66.6 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Vincent and the Grenadines 51.1 72.7 77.7 77.2 60.7 82.9 3.0 5.7	Aruba	60.4	75.4	•	59.1	72.9	61.6	77.8		2.5 (4.9			
Barbados 57.2 75.4 54.7 72.9 59.3 77.7 4.5 4.8 Cuba 59.4 79.2 57.8 77.1 61.3 81.3 3.5 4.2 Curaçao 60.7 77.8 59.1 74.5 62.2 80.7 3.2 6.2 Dominican Republic 46.0 73.2 44.7 70.2 47.3 76.5 2.6 6.3 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 7.2 Haiti 37.5 62.3 36.2 60.2 38.8 64.4 2.5 4.2 Jamaica 55.6 81.2 54.2 77.8 56.9 84.4 2.5 4.2 Martinique 55.6 81.2 54.2 77.8 56.9 84.4 2.7 6.6 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Uncia 52.6 74.8 49.6 72.2 74.9 2.5 4.2 4.4 4.5	Bahamas	60.0	75.1	•	58.5	72.0	61.4	78.1		3.0	6.1			
Cuba 59.4 79.2 57.8 77.1 61.3 81.3 3.5 4.2 Curaçao 60.7 77.8 59.1 74.5 62.2 80.7 3.2 6.2 Dominican Republic 46.0 73.2 54.4 70.2 47.3 76.5 2.6 6.3 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 4.8 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 4.8 Jamaica 55.6 75.4 57.1 73.1 60.0 77.9 2.9 4.8 Martinique 55.6 81.2 55.2 65.7 83.2 4.1 8.0 Saint Lucia 52.6 74.8 49.7 70.7 52.2 74.9 2.5 4.2 Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 3.0 5.7 Sint Ucia 55.9 60.8 57.7 77.2 60.7 82.9 3.0 5.7 <td>Barbados</td> <td>57.2</td> <td>75.4</td> <td>•</td> <td>54.7</td> <td>72.9</td> <td>59.3</td> <td>77.7</td> <td></td> <td>4.5 (</td> <td>4.8</td> <td></td>	Barbados	57.2	75.4	•	54.7	72.9	59.3	77.7		4.5 (4.8			
Curaçao 60.7 77.8 59.1 74.5 62.2 80.7 3.2 6.2 Dominican Republic 46.0 73.2 44.7 70.2 47.3 76.5 2.6 6.3 Grenada 56.3 73.2 54.4 70.8 57.9 75.6 3.4 4.8 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 4.8 Haiti 37.5 62.3 36.2 60.2 38.8 64.4 2.5 4.2 Jamaica 58.6 75.4 57.1 73.1 60.0 77.9 2.9 4.8 Martinique 55.6 81.2 54.2 77.8 56.9 84.4 2.7 6.6 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Lucia 52.6 74.8 49.6 72.2 55.3 77.6 5.7 5.4 Contral America 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7	Cuba	59.4	79.2	•	57.8	77.1	61.3	81.3		3.5 (4.2			
Dominican Republic 46.0 73.2 44.7 70.2 47.3 76.5 2.6 6.3 Grenada 56.3 73.2 54.4 70.8 57.9 75.6 3.4 4.8 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 7.2 Haiti 37.5 62.3 36.2 60.2 38.8 64.4 2.5 4.2 Jamaica 58.6 75.4 57.1 73.1 60.0 77.9 2.9 4.8 Martinique 55.6 81.2 54.2 77.8 56.9 84.4 2.7 6.6 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Lucia 52.6 74.8 49.6 72.2 55.3 77.6 5.7 5.4 Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 2.5 4.2 Central America 49.0 75.7 47.4 73.1 50.7 78.4 3.3	Curaçao	60.7	77.8		59.1	74.5	62.2	80.7		3.2 (6.2	+		
Grenada 56.3 73.2 54.4 70.8 57.9 75.6 3.4 4.8 Guadeloupe ²⁵ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 7.2 Haiti 37.5 62.3 36.2 60.2 38.8 64.4 2.5 4.2 Jamaica 58.6 75.4 57.1 73.1 60.0 77.9 2.9 4.8 Martinique 55.6 81.2 54.2 77.8 56.9 84.4 2.7 6.6 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Lucia 52.6 74.8 49.6 72.2 74.9 2.5 4.2 Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 2.5 4.2 United States Virgin Islands 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7 Belize 55.9 69.8 54.6 67.2 57.3 72.7 5.5 5.0	Dominican Republic	46.0	73.2	•	44.7	70.2	47.3	76.5		2.6	6.3	•		
Guadeloupe ²³ 53.3 80.5 51.5 76.8 54.9 84.0 3.4 7.2 Haiti 37.5 62.3 36.2 60.2 38.8 64.4 2.5 4.2 Jamaica 58.6 75.4 57.1 73.1 60.0 77.9 2.9 4.8 Martinique 55.6 81.2 54.2 77.8 56.9 84.4 2.7 6.6 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Lucia 52.6 74.8 49.6 72.2 55.3 77.6 5.7 5.4 Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 2.5 4.2 United States Virgin Islands 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7 Central America 49.0 72.7 54.6 67.2 57.3 81.7 3.3 5.3 Belize 55.9 69.8 74.4 73.1 50.7 74.4 9.2	Grenada	56.3	73.2	•	54.4	70.8	57.9	75.6		3.4 (4.8	•		
Haiti 37.5 62.3 36.2 60.2 38.8 64.4 2.5 4.2 Jamaica 58.6 75.4 57.1 73.1 60.0 77.9 2.9 4.8 Martinique 55.6 81.2 54.2 77.8 56.9 84.4 2.7 6.6 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Lucia 52.6 74.8 49.6 72.2 55.3 77.6 5.7 5.4 Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 2.5 4.2 Trinidad and Tobago 57.9 70.2 57.1 66.9 58.7 73.8 1.6 7.0 United States Virgin Islands 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7 Central America 49.0 72.5 54.6 67.2 57.3 72.7 2.7 5.5 5.0 Guatemala 42.0 71.5 41.8 67.9 47.1	Guadeloupe ²⁵	53.3	80.5	•	51.5	76.8	54.9	84.0		3.4	7.2			
Jamaica 58.6 75.4 57.1 73.1 60.0 77.9 2.9 4.8 Martinique 55.6 81.2 54.2 77.8 56.9 84.4 2.7 6.6 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Lucia 52.6 74.8 49.6 72.2 55.3 77.6 5.7 5.4 Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 2.5 4.2 United States Virgin Islands 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7 Central America 49.0 75.7 47.4 73.1 50.7 78.4 3.3 5.3 Belize 55.9 69.8 54.6 67.2 57.3 72.7 2.7 5.5 Costa Rica 56.0 79.2 54.8 76.7 57.3 81.7 2.5 5.0 El Salvador 44.3 72.6 41.8 67.9 47.1 77.1 5	Haiti	37.5	62.3	•	36.2	60.2	38.8	64.4		2.5 (4.2			
Martinique 55.6 81.2 54.2 77.8 56.9 84.4 2.7 6.6 Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Lucia 52.6 74.8 49.6 72.2 55.3 77.6 5.7 5.4 Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 2.5 4.2 Trinidad and Tobago 57.9 70.2 57.1 66.9 58.7 73.8 1.6 7.0 United States Virgin Islands 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7 Central America 49.0 75.7 47.4 73.1 50.7 78.4 3.3 5.3 Belize 55.9 69.8 54.6 67.2 57.3 72.7 2.7 5.5 Costa Rica 56.0 79.2 54.8 76.7 57.3 81.7 2.5 5.0 Guatemala 42.0 71.5 41.8 67.9 47.1 77.1	Jamaica	58.6	75.4		57.1	73.1	60.0	77.9		2.9 (4.8			
Puerto Rico 63.5 79.2 61.5 75.2 65.7 83.2 4.1 8.0 Saint Lucia 52.6 74.8 49.6 72.2 55.3 77.6 5.7 5.4 Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 2.5 4.2 Trinidad and Tobago 57.9 70.2 57.1 66.9 58.7 73.8 1.6 7.0 United States Virgin Islands 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7 Central America 49.0 75.7 47.4 73.1 50.7 78.4 3.3 5.3 Belize 55.9 69.8 54.6 67.2 57.3 72.7 2.7 5.5 Costa Rica 56.0 79.2 54.8 76.7 57.3 81.7 2.5 5.0 Guatemala 42.0 71.5 41.8 67.9 47.1 77.1 5.4 9.2 Honduras 41.8 72.8 40.5 70.4 43.1 75.4	Martinique	55.6	81.2	•	54.2	77.8	56.9	84.4		2.7 (6.6			
Saint Lucia 52.6 74.8 49.6 72.2 55.3 77.6 5.7 5.4 Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 2.5 4.2 Trinidad and Tobago 57.9 70.2 57.1 66.9 58.7 73.8 1.6 7.0 United States Virgin Islands 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7 Central America 49.0 75.7 47.4 73.1 50.7 78.4 3.3 5.3 Belize 55.9 69.8 54.6 67.2 57.3 72.7 2.7 5.5 Costa Rica 56.0 79.2 54.8 76.7 57.3 81.7 2.5 5.0 El Salvador 44.3 72.6 41.8 67.9 47.1 77.1 5.4 9.2 4.9 Guatemala 42.0 71.5 41.8 67.9 42.3 75.0 0.5 7.1 Honduras 41.8 72.8 40.5 70.4 43.1	Puerto Rico	63.5	79.2		61.5	75.2	65.7	83.2		4.1 (8.0			
Saint Vincent and the Grenadines 51.1 72.7 49.7 70.7 52.2 74.9 2.5 4.2 Trinidad and Tobago 57.9 70.2 57.1 66.9 58.7 73.8 1.6 7.0 United States Virgin Islands 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7 Central America 49.0 75.7 47.4 73.1 50.7 78.4 3.3 5.3 Belize 55.9 69.8 54.6 67.2 57.3 72.7 2.7 5.5 Costa Rica 56.0 79.2 54.8 76.7 57.3 81.7 2.5 5.0 El Salvador 44.3 72.6 41.8 67.9 47.1 77.1 5.4 9.2 - Guatemala 42.0 71.5 41.8 67.9 42.3 75.0 0.5 71.1 Honduras 41.8 72.8 40.5 70.4 43.1 75.4 2.6 5.0 Mexico 50.7 76.5 48.9 74.0 52.5	Saint Lucia	52.6	74.8	+	49.6	72.2	55.3	77.6		5.7	5.4			
Irinidad and Tobago 57.9 70.2 57.1 66.9 58.7 73.8 1.6 7.0 United States Virgin Islands 59.2 80.0 57.7 77.2 60.7 82.9 3.0 5.7 Central America 49.0 75.7 47.4 73.1 50.7 78.4 3.3 5.3 Belize 55.9 69.8 54.6 67.2 57.3 72.7 2.7 5.5 Costa Rica 56.0 79.2 54.8 76.7 57.3 81.7 2.5 5.0 El Salvador 44.3 72.6 41.8 67.9 47.1 77.1 5.4 9.2 Guatemala 42.0 71.5 41.8 67.9 42.3 75.0 0.5 7.1 Honduras 41.8 72.8 40.5 70.4 43.1 75.4 2.6 5.0 Mexico 50.7 76.5 48.9 74.0 52.5 78.9 3.6 4.9 Nicaragua 42.3 74.5 40.9 71.4 43.7 77.5 2.8 6.	Saint Vincent and the Grenadines	51.1	72.7	-	49.7	/0./	52.2	74.9		2.5	4.2			
Central America 49.0 75.7 47.4 73.1 50.7 78.4 3.3 5.7 Belize 55.9 69.8 54.6 67.2 57.3 72.7 2.7 5.5 Costa Rica 56.0 79.2 54.8 76.7 57.3 81.7 2.5 5.0 El Salvador 44.3 72.6 41.8 67.9 47.1 77.1 5.4 9.2 Guatemala 42.0 71.5 41.8 67.9 42.3 75.0 0.5 7.1 Honduras 41.8 72.8 40.5 70.4 43.1 75.4 2.6 5.0 Mexico 50.7 76.5 48.9 74.0 52.5 78.9 3.6 4.9 Nicaragua 42.3 74.5 40.9 71.4 43.7 77.5 2.8 6.1 Panama 56.8 77.3 55.9 74.3 57.8 80.5 1.9 6.1	Initiad States Virgin Islands	57.9	/0.2	•	57.1	00.9	58.7	/3.8		1.0				
Belize 55.9 69.8 54.6 67.2 57.3 72.7 2.7 5.5 Costa Rica 56.0 79.2 54.8 76.7 57.3 81.7 2.5 5.0 El Salvador 44.3 72.6 41.8 67.9 47.1 77.1 5.4 9.2 Guatemala 42.0 71.5 41.8 67.9 42.3 75.0 0.5 7.1 Honduras 41.8 72.8 40.5 70.4 43.1 75.4 2.6 5.0 Mexico 50.7 76.5 48.9 74.0 52.5 78.9 3.6 4.9 Nicaragua 42.3 74.5 40.9 71.4 43.7 77.5 2.8 6.1 Panama 56.8 77.3 55.9 74.3 57.8 80.5 1.9 6.1	Control Amorica	10 0	80.0		37.7	72.1	50.7	78.4		2.0	5.7	-		
Costa Rica 56.0 79.2 54.8 76.7 57.3 81.7 2.5 5.0 El Salvador 44.3 72.6 41.8 67.9 47.1 77.1 5.4 9.2 Guatemala 42.0 71.5 41.8 67.9 42.3 75.0 0.5 7.1 Honduras 41.8 72.8 40.5 70.4 43.1 75.4 2.6 5.0 Mexico 50.7 76.5 48.9 74.0 52.5 78.9 3.6 4.9 Nicaragua 42.3 74.5 40.9 71.4 43.7 77.5 2.8 6.1 Panama 56.8 77.3 55.9 74.3 57.8 80.5 1.9 6.1	Belize	55.0	69.8		54.6	67.2	57.3	70.4		2.2	5.5			
El Salvador 44.3 72.6 41.8 67.9 47.1 77.1 5.4 9.2 Guatemala 42.0 71.5 41.8 67.9 42.3 75.0 0.5 7.1 Honduras 41.8 72.6 41.8 67.9 42.3 75.0 0.5 7.1 Mexico 50.7 76.5 48.9 74.0 52.5 78.9 3.6 4.9 Nicaragua 42.3 74.5 40.9 71.4 43.7 77.5 2.8 6.1 Panama 56.8 77.3 55.9 74.3 57.8 80.5 1.9 6.1	Costa Rica	56.0	79 2	•	54.8	76.7	57.3	, <u>2</u> ., 81.7		2.7	5.0	-		
Guatemala 42.0 71.5 41.8 67.9 42.3 75.0 0.5 7.1 Honduras 41.8 72.8 40.5 70.4 43.1 75.4 2.6 5.0 Mexico 50.7 76.5 48.9 74.0 52.5 78.9 3.6 4.9 Nicaragua 42.3 77.3 55.9 74.3 57.8 80.5 1.9 6.1	El Salvador	■ 44 3	776		41 8	67.9	47 1	77 1		5.4 (- <u>5.0</u>	-		
Honduras 41.8 72.8 40.5 70.4 43.1 75.4 2.6 5.0 Mexico 50.7 76.5 48.9 74.0 52.5 78.9 3.6 4.9 Nicaragua 42.3 74.5 40.9 71.4 43.7 77.5 2.8 6.1 Panama 56.8 77.3 55.9 74.3 57.8 80.5 1.9 6.1	Guatemala	42 N	71 5		41 8	67.9	42.3	75.0	ě	0.5 (7 1			
Mexico 50.7 76.5 48.9 74.0 52.5 78.9 3.6 4.9 Nicaragua 42.3 74.5 40.9 71.4 43.7 77.5 2.8 6.1 Panama 56.8 77.3 55.9 74.3 57.8 80.5 1.9 6.1	Honduras	41.8	72.8		40.5	70.4	43.1	75.4	ě	2.6	5.0			
Nicaragua 42.3 74.5 40.9 71.4 43.7 77.5 2.8 6.1 Panama 56.8 77.3 55.9 74.3 57.8 80.5 1.9 6.1	Mexico	50.7	76.5	•	48.9	74.0	52.5	78.9		3.6	4.9			
Panama 💿 56.8 🔴 77.3 🦟 55.9 74.3 57.8 80.5 🌑 1.9 🛑 6.1 🦯	Nicaragua	42.3	74.5		40.9	71.4	43.7	77.5	ŏ	2.8	6.1			
	Panama	56.8	77.3	•	55.9	74.3	57.8	80.5	Ō	1.9	6.1			

								Absolu	ite differer	nce, years
	Both sex	es		Male		Female		(fema	le - male)	
Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-	55 2010-1	5 1950-2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
South America ²⁶	51.9	74.4		50.1	70.7	53.7	78.0	3	.6 🔵 7.	3
Argentina	62.5	76.0	++	60.4	72.2	65.1	79.8	4	.7 🔵 7.	7
Bolivia (Plurinational State of)	40.0	67.7	••	38.7	65.3	41.4	70.2	2	.8 🥚 4.9	9
Brazil	50.8	74.1	••	49.1	70.3	52.6	77.9	3	.5 🛑 7.0	6 🔶 🔶
Chile	53.6	81.2	••	51.2	78.1	56.1	84.1	4	.8 🛑 6.(0
Colombia	50.6	73.7	•	49.0	70.2	52.3	77.4	3	.4 🔵 7.1	2
Ecuador	48.7	75.5	•	47.4	72.8	49.9	78.4	2	.5 🛑 5.0	6
French Guiana	53.3	9.0	•	50.3	75.8	56.9	82.6	6	.6 🛑 6.8	8 ~~~~
Guyana	58.8	66.3	•	56.2	64.0	61.6	68.6	5	.4 🔵 4.0	6
Paraguay	62.7	72.7	••	60.7	70.7	64.7	74.9	4	.0 🥚 4.:	2
Peru	43.9	74.2	• • • •	42.9	71.5	45.0	76.8	2	.1 🔵 5.3	3
Suriname	56.0	70.9		54.4	67.8	57.7	74.2	3	.3 🛑 6.4	4
Uruguay	66.1	77.0	••	63.3	73.3	69.4	80.4	6	.1 🛑 7.1	2
Venezuela (Bolivarian Republic of)	54.8	73.9	•	53.5	69.9	56.3	78.2	2	.8 🔵 8.3	3
NORTHERN AMERICA 27	68.6	9.2		65.8	76.8	71.7	81.5	5	.8 🥚 4.	7
Canada	68.9	81.8	•	66.6	79.7	71.5	83.8	4	.8 🦲 4.1	1 /
United States of America	68.6	7 8.9	••	65.8	76.5	71.7	81.3	5	.9 🔵 4.8	8

Life expectancy at birth (years)*

								Abs	olute d	differend	e, years
	Both sexe	es		Male		Female		(fer	nale -	male)	
Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	195	0-55	2010-15	1950-2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
OCEANIA	60.4	77.5	•	58.1	75.3	63.1	79.7	\bigcirc	4.9 (4.4	
Australia/New Zealand	69.5	82.0	• • • •	66.9	79.9	72.2	84.1		5.3	4.2	
Australia ²⁸	69.4	82.1		66.8	79.9	72.3	84.3		5.5	4.3	
New Zealand	69.7	81.6	••	67.6	79.7	72.0	83.4	Ō	4.4	3.6	
Melanesia	37.3	64.0	• • •	36.3	61.9	38.5	66.3		2.2	4.4	\sim
Fiji	52.2	69.7	•	50.1	66.9	54.7	72.9		4.6	6.0	
New Caledonia	50.7	6.2	•	49.6	73.6	52.1	79.3		2.5	5.8	
Papua New Guinea	34.7	62.3	•	33.8	60.3	35.7	64.5		1.9 (4.2	\sim
Solomon Islands	45.4	67.5	• • • •	44.9	66.2	46.4	69.0		1.5 (2.8	
Vanuatu	41.9	71.5	••	40.6	69.6	43.4	73.6		2.8 (4.0	
Micronesia ²⁹	53.5	72.8	•	52.2	70.5	55.0	75.3		2.8	4.8	
Guam	57.1	78.7	•	55.4	76.1	59.7	81.5		4.3 (5.3	**
Kiribati	46.4	65.7	• • • •	44.2	62.6	48.6	68.9		4.4	6.4	
Micronesia (Fed. States of)	54.6	68.9	•	54.1	68.0	55.2	69.9		1.1	1.9	
Polynesia ³⁰	50.4	74.3	•	48.6	71.7	52.5	77.1		3.9	5.4	
French Polynesia	48.9	6.1	•	48.0	74.0	50.0	78.6		2.0	4.6	
Samoa	45.9	73.0	•	43.0	70.0	49.6	76.4		6.6	6.4	*****
Tonga	58.6	72.6	•	58.5	69.7	58.7	75.6		0.3	5.8	•
Legend:	<u>Columns</u>	2 and 3:		<u>Columns 4</u>	and 11:			<u>Colu</u>	<u>ımns 9</u>) and 10:	
	colored c	ircles		colored do	ot on time	trend		colo	red ci	rcles	
	< 50 = bla	ick		minimum	value = blu	ie dot		< 25	perce	entile = b	lack
	50-59 = g	ray		maximum	value = re	d dot		25-4	9 perc	centile =	gray
	60-69 = li	ght red						50-7	'5 perc	entile =	light red
	70+ = red							75+	perce	ntile = re	d

(*) Source: United Nations, Department of Economic and Social Affairs, Population Division (2015). *World Population Prospects: The 2015 Revision, DVD Edition*. Accessed on 12 Nov. 2015 at: http://esa.un.org/unpd/wpp/DVD/

File MORT/7-1: Life expectancy at birth (both sexes combined) by major area, region and country, 1950-2100 (years POP/DB/WPP/Rev.2015/MORT/F07-1 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL FILES/3 Mortality/WPP2015 MORT F07 1 LIFE EXPECTANCY 0 BOTH SEXES.XLS

File MORT/7-2: Male life expectancy at birth by major area, region and country, 1950-2100 (years) POP/DB/WPP/Rev.2015/MORT/F07-2 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL_FILES/3 Mortality/WPP2015 MORT_F07_2 LIFE_EXPECTANCY_0_MALE.XLS

File MORT/7-3: Female life expectancy at birth by major area, region and country, 1950-2100 (years) POP/DB/WPP/Rev.2015/MORT/F07-3 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1_Indicators%20(Standard)/EXCEL_FILES/3_Mortality/WPP2015_MORT_F07_3_LIFE_EXPECTANCY_0_FEMALE.XLS

								Average a	nnual				
	Bot	th sexe	es					change (19	990-2015)	Male		Female	
Country or area	19	50-55	199	90-95	201	0-15	1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)		(2)	((3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
WORLD		215	\bigcirc	91	\bigcirc	50	•	-2.0	-2.3	93	52	88	47
More developed regions ^a		78		13		6	<u> </u>	-0.3	-2.6	14	7	11	6
Less developed regions ^b		248		100		54	•	-2.3	-2.3	102	56	97	52
Least developed countries ^c		324		172		86	•	-4.3	-2.5	179	91	165	80
Other less developed countries ^d		237		83		45	•	-1.9	-2.3	85	46	81	43
Less developed regions, excluding China	ŏ	268	ŏ	112	ŏ	61	•	-2.5	-2.3	114	63	109	58
High-income countries ^e		82		15		7		-0.4	-2.5	16	8		7
Middle-income countries ^e		241		89		48	•	-2.1	-2.3	91	49	87	46
Upper-middle-income countries ^e		208		53		24	•	-15	-2.7	56	26	49	22
Lower middle income countries ^e		200		112		60	•	-1.5	-2.7	114	20 62	110	50
Low income countries ^e		211		100		00	•	-2.0	-2.5	114	02	170	59
Low-Income countries		319		100		91	•	-4.8	-2.0	193	90	1/8	60
Sub-Sanaran Africa		307		184		99	•	-4.3	-2.3	193	104	1/5	92
AFRICA Eastern Africa	8	310		167		90	•	-3.9	-2.3	1/5	95	159	84
Eastern Ainca Burundi		201		202		172		-5.2	-2.8	212	122	1/4	11/
Comoros		201		11/		78	•	-4.0	-2.0	1213	83	192	72
Diibouti		260		120		83	•	-1.8	-1.0	120	80	107	72
Fritrea		201		120		60	•	-3.5	-2.7	120	63	121	56
Ethionia		334		191		74	•	-5.8	-2.7	199	81	182	67
Kenva		248	ă	109		78	•	-1.5	-1.4	116	85	102	71
Madagascar	ŏ	295	ŏ	152	õ	55	•	-4.9	-3.2	158	58	147	51
Malawi	ŏ	348	ŏ	215	ŏ	77	•	-6.9	-3.2	220	80	210	73
Mauritius ¹		168		21		14	·	-0.4	-1 7	24	15		13
Mayotte		222		17		5		-0.6	-3.6	19	5	10	13
Mozambique		366		229		99	•	-6.5	-2.8	240	108	217	91
Réunion	ŏ	222		17		5		-0.6	-3.6	19	-00		4
Rwanda	ŏ	271	ŏ	466		73		-19.7	-4.2	492	78	439	67
Sevchelles	ŏ	111		15		13	•	-0.1	-0.9	19	16	12	9
Somalia	ŏ	335	ŏ	222	ŏ	131	•	-4.5	-2.0	232	138	211	124
South Sudan	ŏ	408	ŏ	220	ŏ	122	•	-4.9	-2.2	229	127	210	117
Uganda	ŏ	271	ŏ	175	Ŏ	93	•	-4.1	-2.3	183	99	167	88
United Republic of Tanzania ²		259	ŏ	165	$\overline{\bigcirc}$	51	•	-5.7	-3.4	173	55	156	48
Zambia	ŏ	251	ŏ	182	ŏ	83		-4.9	-2.7	190	89	173	76
Zimbabwe	ŏ	191	ŏ	81	Ŏ	72	•	-0.5	-0.6	86	79	76	64
Middle Africa	Ŏ	305	Ŏ	188	Ŏ	126	• • • • • • • • • • • • • • • • • • • •	-3.1	-1.6	197	132	178	119
Angola		375		253		156	••	-4.9	-1.9	270	164	236	147
Cameroon		286		144		115	• • • •	-1.4	-1.0	151	122	137	108
Central African Republic		341		182		151	•	-1.6	-0.9	198	166	166	135
Chad		312		199		155	• • • • • • • • • • • • • • • • • • • •	-2.2	-1.1	206	160	191	150
Congo		240		125		75	••	-2.5	-2.0	132	81	117	69
Democratic Republic of the Congo		281		182		115	• • • • • •	-3.4	-1.8	190	120	174	110
Equatorial Guinea		329		184		109	• • • • • •	-3.8	-2.0	193	115	175	103
Gabon		302	\bigcirc	91	\bigcirc	62	• • • • • • • • • • • • • • • • • • • •	-1.5	-1.6	96	66	86	57
Sao Tome and Principe		210	\bigcirc	87	\bigcirc	63	•	-1.2	-1.4	94	69	81	56
Northern Africa		318	\bigcirc	82	\bigcirc	40	•	-2.1	-2.6	86	43	79	37
Algeria		278	0	60	\bigcirc	36		-1.2	-2.0	63	44	57	27
Egypt	0	387	Õ	80		24		-2.8	-3.5	83	25	78	23
Libya		346	\bigcirc	39	0	29		-0.5	-1.3	42	33	36	24
Morocco		252		68	0	32		-1.8	-2.7	72	34	64	29
Sudan		228		130		82	•	-2.4	-1.9	136	84	124	79
Tunisia		302		41		20	•	-1.0	-2.5	44	21	36	19
Western Sahara		323		106	\bigcirc	46		-3.0	-2.8	113	52	99	40

								Average a	nnual				
	Во	th sex	es					change (19	90-2015)	Male		Female	
Country or area	19	50-55	199	90-95	201	0-15	1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)		(2)		(3)	(4	1)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Southern Africa		176	\bigcirc	66	\bigcirc	52		-0.7	-1.0	74	59	59	45
Botswana		201		73	\bigcirc	40	•	-1.7	-2.3	80	45	66	35
Lesotho		253	\bigcirc	94	\bigcirc	82	•	-0.6	-0.6	98	90	89	74
Namibia	Ó	257	Ō	81	\bigcirc	42	• • • •	-1.9	-2.4	91	50	69	33
South Africa		166		63	\bigcirc	51	•	-0.6	-0.9	70	58	55	44
Swaziland		260	\bigcirc	95	\bigcirc	92	•	-0.2	-0.2	101	99	89	84
Western Africa ³		342		202		111	•	-4.6	-2.3	210	116	193	105
Benin	Ŏ	349	Ŏ	168	Ŏ	108	••	-3.0	-1.8	188	117	148	99
Burkina Faso		376		204		108	• • • • •	-4.8	-2.3	209	123	198	92
Cabo Verde		197	\bigcirc	54		24	• • • • •	-1.5	-2.8	58	26	49	21
Côte d'Ivoire		394		149		105	••	-2.2	-1.5	160	114	138	96
Gambia		383		156	\bigcirc	83	• • • • •	-3.6	-2.3	164	89	147	77
Ghana		249		114	\bigcirc	78	• • • • •	-1.8	-1.6	120	83	109	72
Guinea		346		216		101	• • • • • • • • • • • • • • • • • • • •	-5.8	-2.7	222	106	209	95
Guinea-Bissau		312		204		152	• • • • • • • • • • • • • • • • • • • •	-2.6	-1.3	219	166	189	137
Liberia		333		234	\bigcirc	85	• • • • • •	-7.4	-3.2	246	91	220	79
Mali		428		246		122	• • • • • •	-6.2	-2.5	253	128	239	117
Mauritania		285		123	\bigcirc	90	• • • • •	-1.6	-1.3	130	98	114	82
Niger		325		293		104		-9.5	-3.2	297	108	289	100
Nigeria		336		213		122	•	-4.6	-2.1	221	126	205	118
Senegal		320		138	\bigcirc	54	• • • • • • • • • • • • • • • • • • • •	-4.2	-3.1	145	58	131	49
Sierra Leone	\bigcirc	420		273		134	• • • • • • • • • • • • • • • • • • • •	-6.9	-2.5	289	141	256	127
Тодо		321		142	\bigcirc	86	•	-2.8	-2.0	152	92	132	80
ASIA		238	\bigcirc	83	\bigcirc	39	•	-2.2	-2.7	84	40	82	38
Eastern Asia		194	\bigcirc	46		13		-1.7	-3.6	49	14	44	12
China ⁴		205	\bigcirc	50		14		-1.8	-3.6	52	14	47	13
China, Hong Kong SAR ⁵	\bigcirc	87		7		3	~	-0.2	-3.1	7	3	7	2
China, Macao SAR ⁶	\bigcirc	90		14		5	•	-0.4	-3.0	16	7	12	4
Dem. People's Republic of Korea		110		8		5	•	-0.1	-1.8	9	6	8	5
Japan		203	\bigcirc	56	\bigcirc	28	•	-1.4	-2.5	59	30	54	26
Mongolia	\bigcirc	77		6		3	••	-0.2	-2.5	7	3	6	3
Republic of Korea		294	\bigcirc	91	\bigcirc	32	• • • • •	-3.0	-3.3	98	35	85	28
Other non-specified areas		194		13		4	•	-0.5	-3.6	14	4	12	3
South-Central Asia ⁷		286		115	\bigcirc	55	•	-3.0	-2.6	113	55	117	56
Central Asia		165	\bigcirc	77	\bigcirc	42	•	-1.8	-2.3	84	47	70	37
Kazakhstan		144	\bigcirc	61		17		-2.2	-3.6	68	20	53	15
Kyrgyzstan		175	\bigcirc	72		23	•	-2.5	-3.4	79	25	65	21
Tajikistan		218		115	\bigcirc	51		-3.2	-2.8	121	56	108	46
Turkmenistan		193	\bigcirc	96	\bigcirc	60		-1.8	-1.9	105	67	86	52
Uzbekistan		160		72	\bigcirc	53		-0.9	-1.3	78	60	65	46
Southern Asia		290		116	\bigcirc	56		-3.0	-2.6	114	55	119	56
Afghanistan		407		163	\bigcirc	99		-3.2	-2.0	167	102	158	95
Bangladesh		328		129	\bigcirc	41		-4.4	-3.4	132	44	126	38
Bnutan		395		125		37	•	-4.4	-3.5	131	41	119	34
Ingla		279		116		53	•	-3.1	-2.7	111	51	120	55
		298		50		1/	•	-1./	-3.3	51	18	49	10
IVIAIDIVES		381		124		11		-3.6	-4.4	87	12	/6	9
Nepal		340		124		40	•	-4.2	-3.4	125	42	124	3/
rakislali Sri Lanka		349		132		0/	•	-2.3	-1./	135	90	130	65
SIILdIIKd		144	\bigcirc	26		10	•	-0.8	-5.1	28	10	23	9

							Average a	nnual				
	Во	th sexes	;				change (19	990-2015)	Male		Female	
Country or area	19	50-55 1	990-95	2010-	15	1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)		(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)
South-Fastern Asia		237	63	\cap	30	•	-16	-2.6	69	34	57	27
Brunei Darussalam	ŏ	112	16		5	•	-0.5	-3.5	16	5	15	4
Cambodia		213	110		35		-4.2	-3.5	126	30	111	31
Indonesia		299	73	ŏ	30	•	-2.1	-2.9	79	34	67	27
Lao People's Democratic Republic		265	137		60	•	-3.8	-2.5	1/13	63	130	57
Malaysia ⁸		107	10		00	•	-5.0	-2.0	145	05	150	57
Muanmar		210	101		0	•	-0.4	-2.3	10	9	15	/ 50
		127	101		20	•	-2.1	-2.0	111	24	90	52
Singanara			40		30	•	-0.9	-1.8	55	34 2	43	20
Singapore		100			12	•	-0.2	-3.1	0	۲ ۲	כ דר	2
		189	31		13		-0.9	-2.9	35	15	27	11
limor-Leste		389	1/4		56	•	-5.9	-3.4	183	60	165	51
viet Nam		158	46		24		-1.1	-2.4	51	27	40	21
western Asia		269	52		31	→ →	-1.0	-2.5	67	33	57	28
Armenia		97) 53		10	•	-1.8	-3.5	57	18	48	14
Azerbaijan		174) 100	\bigcirc	47	•	-2.6	-2.6	110	51	89	43
Bahrain		268	19	0	9		-0.5	-2.5	19	10	18	8
Cyprus ¹⁰	\bigcirc	78	11		5		-0.3	-2.7	12	6	10	4
Georgia ¹¹	\bigcirc	90 🤇	49		16		-1.6	-3.3	53	18	45	15
Iraq		327 🤇	48		38	••	-0.5	-1.1	51	41	45	34
Israel	\bigcirc	49 🤇	10		4	••	-0.3	-2.8	11	5	9	4
Jordan		239	34		20	••	-0.7	-2.1	35	21	33	18
Kuwait		193	16		11	• <u> </u>	-0.3	-1.6	18	12	15	10
Lebanon	\bigcirc	94 🤇	30		11	••	-1.0	-3.2	32	11	28	11
Oman		359	40		9	••	-1.6	-3.9	43	9	38	8
Qatar		163	18		8	••	-0.5	-2.9	19	8	18	8
Saudi Arabia		300 🤇	39		17	••	-1.1	-2.8	41	17	36	16
State of Palestine ¹²		209	41		24	•	-0.8	-2.0	44	27	37	21
Syrian Arab Republic	ŏ	211	32	Ŏ	21	• • • •	-0.5	-1.7	34	23	29	19
Turkey	Ŏ	293	73	Ŏ	19	• • • • • • • • • • • • • • • • • • • •	-2.7	-3.7	80	21	64	16
United Arab Emirates	Õ	269	19	Ŏ	7	••	-0.6	-3.1	21	8	17	6
Yemen		371	119	\bigcirc	73	+++	-2.3	-1.9	124	76	114	70
EUROPE	\bigcirc	94	15		6	< <u> </u>	-0.4	-2.9	17	7	13	6
Eastern Europe		122	23		9	< <u> </u>	-0.7	-3.0	26	11	20	8
Belarus		128	18		5	< <u> </u>	-0.6	-3.6	21	6	15	4
Bulgaria		118	19		11	~	-0.4	-2.2	21	12	17	9
Czech Republic	\bigcirc	54	11		3	••	-0.4	-3.6	12	4	10	2
Hungary	\bigcirc	83	15		6	••	-0.5	-3.2	17	6	13	5
Poland	\bigcirc	92 🤇	18		5	••	-0.6	-3.5	20	6	16	5
Republic of Moldova ¹³		101	35		13	•	-1.1	-3.1	39	15	30	12
Romania	ŏ	113	29	Ŏ	13	•	-0.8	-2.8	32	14	25	12
Russian Federation	Ŏ	142	26	Ŏ	10	·	-0.8	-3.0	30	12	22	9
Slovakia	Õ	86	14	Ŏ	6	••	-0.4	-2.8	15	7	12	5
Ukraine ¹⁴		113	21		11	·	-0.5	-2.4	24	12	18	9
Northern Europe ¹⁵		42	0		5	· · · ·	-0.2	-2.4	10	5	8	4
Channel Islands ¹⁶		40	16		Q	•	-0.3	_2 1	18	9	1/	9
Denmark		33			1	•	-0.5	-2.1	01	1	7	1
Estopia		112	20		4	•	-0.2	-2.3		4 5	17	4
Einland ¹⁷		112	20		4	•	-0.0	-3.5		5	1/	4
Finiana		42	6		3		-0.2	-2.6	7	3	6	3
Iceland		2/	6		3	•	-0.2	-2.8	7	3	5	2
		107	24		4	•	-0.2	-2.8	9	4	10	3 -
		107	21		8	•	-0.7	-3.2	24	9	19	/
Lithuania		138	20		5		-0.7	-3.8	22	5	17	4

							Average a	nnuai				
	Bot	th sexe	s				change (19	990-2015)	Male		Female	
Country or area	19	50-55	1990-	95 2	2010-15	1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)		(2)	(3)		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Norway ¹⁸		30		7	3		-0.2	-2.9	8	3	7	3
Sweden		24	ŏ	6	3	•	-0.2	-2.4	7	4	6	3
United Kingdom		34	ŏ	8	5	•	-0.2	-2.0	9	5	7	5
Southern Europe 19		97		12		•	-0.4	-3.2	14	5	11	4
Albania		194	<u> </u>	37	16	•	-1.1	-2.9	40	17	34	15
Bosnia and Herzegovina	ŏ	203		22	9	•	-0.6	-2.9	23	10	20	8
Croatia	ŏ	104	ŏ	12	5	•	-0.3	-2.9	12	6	12	4
Greece		58	ŏ	9	4	•	-0.3	-3.1	10	4	9	3
Italy	ŏ	75	ŏ	9	3		-0.3	-3.5	10	3	8	3
Malta	Õ	56	ŏ	11	6	•	-0.3	-2.4	12	6	11	6
Montenegro		133	ŏ	20	8	•	-0.6	-3.1	21	8	20	7
Portugal	ŏ	137	Ď	12	4	•	-0.4	-3.4	14	4	11	3
Serbia ²⁰		136	Ň	20	12	•	-0.4	-2.1	23	13	18	10
Slovenia		29		9	3	•	-0.3	-3.1	10	4	8	3
Spain ²¹		83		8		•	-0.2	-2.9	 9	4	8	3
TEVP Macadania ²²		100		20	11	•	0.2	2.5	21	10	20	0
		155		29			-0.9	-3.2	31	12	28	9
Western Europe		52		8	4		-0.2	-2.5	9	4	7	4
Austria		64		9	4		-0.2	-2.8	10	4	8	3
Beigium		53		9	4	•	-0.3	-2.8	11	5	8	4
France		54		8	4		-0.2	-2.6	9	4	/	4
Germany		55		8	4		-0.2	-2.5	9	4	/	3
Luxembourg		55		9		•	-0.3	-3.8	9	2	8	2
Netherlands	0	30		ð		•	-0.2	-2.3	9	5	/	4
		100		10	2	•	-0.2	-2.2	8	20	1	4
Caribbeen ²⁴		190		49	20		-1.2	-2.4	54	29	44	22
Caribbean		185		62 (39		-1.1	-1.8	55	43	58	36
		115		23			-0.6	-2.5	28	15	1/	/ 1 Г
Aruba		95		22	17	•	-0.2	-1.1	20	19	20	10
Barbados		90 121		20	11	•	-0.5	-2.1	20	14	20	12
		112		14		•	-0.5	-2.3	16	12	13	10
Cuba		87		17	12	•	-0.4	-2.5	20	0 1/	12	10
Dominican Benublic		252		55	28	•	-0.5	-1.5	20 61	32	10	24
Grenada		1/1		24	13	•	-0.5	-2.4	25	1/	-+5	12
Guadalauna ²⁵		124		10			-0.J	-2.2	10		14	12
Haiti		221	1	27	77		-0.5	-3.0	122	/ 22	14 122	0 71
		110		27	10		-2.5	-2.0	152	05 10	122	17
Martinique		110		17			-0.5	-1.7	29	19	25	1/
Ruorto Rico		75		1/			-0.5	-2.0	19	9	14	7
		100		24	15	•	-0.5	-2.4	15	0 17	20	12
Saint Lucia		199		24	21	•	-0.5	-2.0	29	25	20	12
Tripidad and Tobago		100	2	20	21	•	-0.4	-1.3	30	23	21	27
United States Virgin Islands		109		10		•	-0.2	-0.5	10	54	17	12
Central America		205		46	25	•	-0.5	-1.5	50	28	42	21
Belize		136		27	17	•	-1.1	-2.5	30	18	3/	15
Costa Rica		154		18	11	•	-0.3	-1.8	19	10	15	10
Fl Salvador		230		53	20	•	-1 7	-3.1	58	21	48	18
Guatemala		259	5	74	32	•	-2.1	-2.9	78	37		26
Honduras	ě	277		60		•	-1.0	-1.7	, 0 66	۵۶ 45	54	20
Mexico		193		40	23		-0.9	-2.1	<u>4</u> 4		37	20
Nicaragua		254		62	24		-1.9	-3.1	 69	20	54	20
Panama		128		33	20	•	-0.7	-2.0	38	20	28	17
							5		50		-0	

Under-five mortality (deaths under age 5 per 1,000 live births)*

					Average a	nnual				
	Both sex	es			change (19	990-2015)	Male		Female	
Country or area	1950-55	1990-95	2010-15	1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
South America ²⁶	185	9 49	25		-1.2	-2.5	54	28	44	21
Argentina	84	28	16	•	-0.6	-2.2	31	18	25	14
Bolivia (Plurinational State of)	298	138	72	•	-3.3	-2.4	147	77	128	67
Brazil	190	50	24	◆	-1.3	-2.5	54	28	45	20
Chile	180	25	12	•	-0.7	-2.6	30	13	20	10
Colombia	189	38	25	•	-0.6	-1.7	42	29	34	22
Ecuador	206	55	25	•	-1.5	-2.7	60	27	49	24
French Guiana	149	24	11	•	-0.7	-2.7	30	13	18	9
Guyana	97	58	41	◆	-0.8	-1.4	63	47	52	35
Paraguay	102	55	35	••	-1.0	-1.8	62	40	47	29
Peru	269	77	29	••	-2.4	-3.1	85	33	70	25
Suriname	114	45	23	••	-1.1	-2.4	51	25	38	21
Uruguay	64	23	15	•	-0.4	-1.7	26	17	20	13
Venezuela (Bolivarian Republic of)	150	29	16	•	-0.7	-2.2	32	18	26	14
NORTHERN AMERICA 27	37	10	• 7	•	-0.2	-1.7	11	8	9	6
Canada	45	8	5	•	-0.1	-1.5	8	6	7	5
United States of America	36	11	7	•	-0.2	-1.7	12	8	9	6
OCEANIA	91	38	26	•	-0.6	-1.6	41	27	35	25
Australia/New Zealand	31	8	5	••	-0.2	-2.2	9	5	7	4
Australia ²⁸	30	8	5	•	-0.2	-2.1	9	5	7	4
New Zealand	34	9	5	•	-0.2	-2.2	11	6	8	5
Melanesia	235	85	56	•	-1.4	-1.7	91	57	78	56
Fiji	151	35	20	•	-0.7	-2.1	37	22	32	18
New Caledonia	171	29	15	••	-0.7	-2.4	36	17	22	13
Papua New Guinea	254	92	62	•	-1.5	-1.6	98	63	84	62
Solomon Islands	219	109	47	•	-3.1	-2.8	107	50	111	44
Vanuatu	254	68	28	•	-2.0	-2.9	71	32	64	24
Micronesia ²⁹	149	54	34	•	-1.0	-1.8	59	39	48	29
Guam	117	25	11	•	-0.7	-2.7	29	12	20	10
Kiribati	213	87	60	•	-1.4	-1.6	102	74	71	45
Micronesia (Fed. States of)	139	54	40	•	-0.7	-1.3	52	40	56	40
Polynesia ³⁰	132	33	18	•	-0.7	-2.2	35	19	30	18
French Polynesia	142	20	8	•	-0.6	-3.1	21	8	19	7
Samoa	160	45	23	•	-1.1	-2.4	49	24	41	23
Tonga	80	32	24	•	-0.4	-1.2	28	24	36	25
		0	-	L						
Legend:	<u>Columns</u>	<u>2-4:</u>		<u>Column 5:</u>			<u>Columns</u>	<u>6-7:</u>		
	colored a	ircles		colored dot	on time tre	nd	cell color	shading b	y pace of	decline
	< 25 = bl	ack		minimum va	alue = blue c	lot	light blue	= slower	pace of de	cline
	25-49 = g	ray		maximum va	alue = red d	ot	dark blue	= fastest	pace of de	cline
	50-99 = li	ght red								
	100+ = re	ed								
	cell color	shadina	by mortal	litv level						
	22.1 20101		~,ui							

green = low

red = high

(*) Source: United Nations, Department of Economic and Social Affairs, Population Division (2015). *World Population Prospects: The 2015 Revision, DVD Edition*. Accessed on 12 Nov. 2015 at: http://esa.un.org/unpd/wpp/DVD/

File MORT/1-2: Under-five mortality (both sexes combined) by major area, region and country, 1950-2100 (deaths under age five per 1,000 live bin POP/DB/WPP/Rev.2015/MORT/F01-2 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL FILES/3 Mortality/WPP2015 MORT F01 2 Q5 BOTH SEXES.XLS

							Average a	nnual				
	Both	n sexe	s				change (1	990-2015)	Male		Female	
Country or area	195	0-55	1990-	95	2010-1	5 1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)	(2	2)	(3)		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
WORLD		142	\supset	63	3	5	-1.4	-2.2	66	38	59	34
More developed regions ^a	\bigcirc	60 (11		5	-0.3	-2.6	12	6	9	5
Less developed regions ^b		161		69	3	€	-1.5	-2.2	73	41	65	37
Least developed countries ^c		203	1	07	5	7 *	-2.5	-2.3	114	62	99	53
Other less developed countries ^d		155		60	3	3	-1.3	-2.2	63	35	57	32
Less developed regions, excluding China	Ŏ	177	Ď	76	<u> </u>	1	-1.6	-2.1	80	46	72	41
High-income countries ^e	\bigcirc	62		12		5	-0.3	-2.4	13	7	10	6
Middle-income countries ^e		158		64	3	5	-1.4	-2.2	67	37	60	34
Upper-middle-income countries ^e	ŏ	135		42	1	,	-1.2	-2.8	45	20	39	17
Lower-middle-income countries ^e	ŏ	183		79	4	1	-1.7	-2.2	82	46	75	42
Low-income countries ^e		195	1	13	6	•	-2.7	-2.4	120	64	105	55
Sub-Sabaran Africa ^f		192		11			2.7	-2.4	110	60	103	50
	X	187		11 02			-2.4	-2.1	109	63	95	54
Fastern Africa	ŏ	180	1	13	5		-3.0	-2.1	105	58	105	48
Burundi	ŏ	167		21	7	3	-2.1	-1.8	130	85	111	70
Comoros	ŏ	193		81	5	3	-1.1	-1.4	88	63	74	53
Djibouti	ŏ	154		76	5	5	-1.0	-1.4	81	60	71	50
Eritrea	ŏ	200		90	<u> </u>	5	-2.2	-2.4	97	49	83	44
Ethiopia	ŏ	200	1	14	5) •	-3.2	-2.8	122	55	106	45
Kenya	Ŏ	147	Ď	72	5	2	-1.0	-1.3	78	58	66	47
Madagascar		183	1	00	3	7 •	-3.2	-3.2	105	39	95	35
Malawi		198	1	39	6) + (-4.0	-2.8	145	63	133	57
Mauritius ¹		103		18	1	2	-0.3	-1.8	21	13	16	11
Mayotte		142	Ď	14	•	4	-0.5	-3.5	15	5	12	4
Mozambique		220	1	35	64	1 +	-3.5	-2.6	145	71	125	58
Réunion		142		14		1	-0.5	-3.5	15	5	12	4
Rwanda		161 (2	89	4 9)	-12.0	-4.1	314	54	261	45
Seychelles	\bigcirc	85 (12	1	י אר אין נ	-0.1	-0.6	14	13	9	7
Somalia		200	1	30	7	•	-2.5	-1.9	139	85	120	74
South Sudan	\bigcirc	249	1	30	7	3	-2.6	-2.0	139	82	121	73
Uganda		161	1	10	6		-2.4	-2.2	117	66	103	56
United Republic of Tanzania ²		153	1	03	3	7	-3.3	-3.2	111	40	95	34
Zambia		148 (1	15	5		-3.0	-2.6	122	60	107	50
Zimbabwe		115 (59	4	3	-0.5	-0.9	63	54	55	43
Middle Africa		183	1	13	79		-1.7	-1.5	122	85	104	73
Angola		231 (1	51	9		-2.7	-1.8	164	104	136	89
Cameroon		170 (90			-0.8	-0.9	96	79	83	67
Central African Republic		204		12	9		-0.9	-0.8	123	104	100	82
Chad		142		19			-1.2	-1.0	127	101	111	90
Colligo Democratic Benublic of the Congo		142	1	80 10	с э. С 7		-1.5	-1.8	00 117	دد مح	102	40 60
Equatorial Guinea		107		10 11			-1.8	-1.7	117	70	102	00
Equatorial Guinea		197		60 11			-2.0	-1.8	119	/5	102	20
Sao Tome and Principe		125		58			-0.8	-1.4	63	47	52	39
Northern Africa		201	5	59			-1.5	-2.5	62	32	55	27
Algeria	ŏ	163		48	3	•	-0.9	-1.8	51	37	44	23
Egypt	ŏ	249		60			-2.0	-3.4	62	20	57	18
Libya	õ	254		33	24	4	-0.4	-1.3	36	28	30	20
Morocco	õ	151	0	53	2	5	-1.3	-2.5	57	29	49	24
Sudan	Õ	135		80	5	3	-1.3	-1.7	85	56	74	51
Tunisia	Õ	232		35	1	€	-0.8	-2.3	38	19	32	18
Western Sahara		217	\mathbf{C}	76	3	7 •	-1.9	-2.5	83	42	69	32

								Average a	nnual				
	Во	th sex	es					change (19	90-2015)	Male		Female	
Country or area	19	50-55	199	90-95	20	10-15	1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)		(2)	((3)		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Southern Africa		117	\bigcirc	51	\bigcirc	40		-0.6	-1.1	56	44	45	34
Botswana		135	\bigcirc	57	\bigcirc	32	•	-1.2	-2.1	63	37	50	28
Lesotho		169	Õ	69	0	60	•	-0.5	-0.7	74	67	64	53
Namibia	Ó	172	Õ	60	\bigcirc	34	•	-1.3	-2.2	69	40	51	27
South Africa		110	\bigcirc	48	\bigcirc	38	•	-0.5	-1.0	53	43	43	33
Swaziland		174	Õ	69	0	65	•	-0.2	-0.3	75	71	63	58
Western Africa ³		201		116	\bigcirc	71	• • • • • • • • • • • • • • • • • • • •	-2.3	-2.0	124	75	109	66
Benin		210		103		69	•	-1.7	-1.7	116	76	88	61
Burkina Faso		228		104	\bigcirc	67	•	-1.9	-1.8	109	73	99	60
Cabo Verde		132		42		20	• • • • • •	-1.1	-2.6	46	22	38	18
Côte d'Ivoire		268		103	\bigcirc	73	•	-1.5	-1.4	113	81	93	66
Gambia		156	\bigcirc	75	\bigcirc	47	•	-1.4	-1.9	78	49	73	45
Ghana		147	\bigcirc	73		51	•	-1.1	-1.5	76	54	69	48
Guinea		207		128	\bigcirc	59	••	-3.5	-2.7	137	59	120	59
Guinea-Bissau		180		122	\bigcirc	92	••	-1.5	-1.2	130	100	112	84
Liberia		224		155		61	•	-4.7	-3.0	167	66	141	56
Mali		242		128	\bigcirc	84	•	-2.2	-1.7	134	96	122	71
Mauritania		148	\bigcirc	80	\bigcirc	67	•	-0.6	-0.8	83	75	77	59
Niger		162		130		60	••	-3.5	-2.7	134	65	125	55
Nigeria		201		126	\bigcirc	76	•	-2.5	-2.0	133	80	118	72
Senegal		128	\bigcirc	72	\bigcirc	44	•	-1.4	-1.9	76	48	67	40
Sierra Leone		237		161	\bigcirc	94	•	-3.3	-2.1	177	100	143	89
Тодо	Õ	186	Õ	83	Õ	50	•	-1.7	-2.0	90	55	77	45
ASIA		157	\bigcirc	62	\bigcirc	31	•	-1.5	-2.5	64	32	59	30
Eastern Asia		123	\bigcirc	37		11	-	-1.3	-3.5	39	12	35	10
China ⁴		129	\bigcirc	40		12	-	-1.4	-3.6	43	12	38	11
China, Hong Kong SAR ⁵	\bigcirc	62		5		2	•	-0.2	-3.2	5	2	5	2
China. Macao SAR ⁶	$\overline{\bigcirc}$	66		11		4	•	-0.3	-3.1	11	5	10	3
Dem. People's Republic of Korea	Õ	79	ŏ	5	ŏ	4	•	-0.1	-1.1	6	4	5	4
Japan		123		42	ŏ	22	•	-1.0	-2.4	44	24	40	20
Mongolia		50	ŏ	4	ŏ	2	•	-0.1	-2.5	5	2	4	2
Republic of Korea		183		68	$\overline{\bigcirc}$	26	•	-2.1	-3.1	73	28	62	23
Other non-specified areas	ŏ	138	ŏ	10	Ŏ	3	•	-0.3	-3.5	10	3	9	3
South-Central Asia ⁷	Ŏ	194	$\overline{\bigcirc}$	83	$\overline{\bigcirc}$	44	•	-1.9	-2.4	85	45	80	43
Central Asia	ŏ	127	Ŏ	63	ŏ	34	•	-1.5	-2.3	69	38	57	29
Kazakhstan	Õ	110	Õ	51		14	••	-1.8	-3.6	57	16	44	12
Kyrgyzstan	Ŏ	140	Õ	60	Ŏ	20	••	-2.0	-3.4	65	21	54	18
Tajikistan	ŏ	160	$\check{\bigcirc}$	88	Õ	40	•	-2.4	-2.7	93	44	84	36
Turkmenistan	ŏ	150	Ŏ	76	Ŏ	47	•	-1.4	-1.9	83	53	68	40
Uzbekistan	ŏ	125	Ŏ	59	Ŏ	44	•	-0.8	-1.3	65	50	53	37
Southern Asia	Ŏ	197	Õ	83	Õ	44	•	-2.0	-2.4	86	45	81	43
Afghanistan	Õ	281	Õ	111	Õ	71	•	-2.0	-1.8	117	75	105	67
Bangladesh	Ŏ	221	Õ	90	\bigcirc	33	•	-2.9	-3.2	96	36	84	30
Bhutan	ŏ	269	Ŏ	76	Ŏ	30	•	-2.3	-3.0	81	34	70	27
India	Õ	186	Õ	82	Õ	41	• • ••••	-2.0	-2.5	83	41	80	42
Iran (Islamic Republic of)		220		40		15	▶	-1.3	-3.1	41	16	38	14
Maldives	Õ	269	\bigcirc	61	Õ	9	▶	-2.6	-4.3	66	10	55	8
Nepal	Õ	229	\bigcirc	88	\bigcirc	32	• • • • • • • • • • • • • • • • • • •	-2.8	-3.2	91	35	84	30
Pakistan	ŏ	256		102	\bigcirc	70	•	-1.6	-1.6	107	74	96	65
Sri Lanka	Õ	89		20		8	•	-0.6	-2.9	22	9	18	7

								nnual				
	Bot	h sexes	5				change (19	990-2015)	Male		Female	
Country or area	19	50-55 1	1990-95	2010)-15	1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
South-Eastern Asia		157	47		24	•	-1.2	-2.4	52	27	42	21
Brunei Darussalam	\bigcirc	81	13		4	▲	-0.4	-3.4	13	5	12	4
Cambodia		143	86	Õ	30	_ _	-2.8	-3.3	94	33	78	26
Indonesia	Ŏ	193	56	Ŏ	25	• • • • •	-1.6	-2.8	62	28	51	22
Lao People's Democratic Republic		177	96		47	• • • •	-2.4	-2.6	103	50	88	43
Malaysia ⁸		102	12		7	~	-0.3	-2.2	13	8	11	6
Myanmar	ŏ	214	73	Õ	46	•	-1.3	-1.8	82	52	63	40
Philippines	Õ	97	36		23	• • • • • •	-0.6	-1.8	40	26	32	21
Singapore	Ō	61	5		2	~	-0.1	-3.1	5	2	4	1
Thailand		128	26		11	••	-0.7	-2.8	29	13	23	10
Timor-Leste		265	119	0	44	•	-3.7	-3.2	128	48	109	39
Viet Nam		104	34		19	••	-0.7	-2.1	38	22	29	17
Western Asia		192	48		24	••	-1.2	-2.5	52	27	43	22
Armenia	\bigcirc	83 🤇	44		13	• • • • • • • • • • • • • • • • • • • •	-1.5	-3.5	48	15	40	11
Azerbaijan ⁹		120	82		40	• • • • • •	-2.1	-2.6	88	42	75	36
Bahrain	Ŏ	173	15		7	••	-0.4	-2.7	15	8	15	6
Cyprus ¹⁰	$\overline{\bigcirc}$	65	9		4	·	-0.2	-2.7	10	5	8	4
Georgia ¹¹	ŏ	80	45	ŏ	14	•	-1.6	-35	48	15	41	12
Irag		225	37		32		-0.2	-0.6	39	35	34	29
Israel		39	8		3	•	-0.2	-2.9	9	4	8	
Jordan		147	29	ŏ	17	•	-0.6	-2.1	31	19	27	15
Kuwait	ŏ	124	13	ŏ	9		-0.2	-1.6	14	10	12	8
Lebanon		68	25	ŏ	9	•	-0.8	-3.2	27	9	23	9
Oman	Ŏ	211	31	ŏ	7	•	-1.2	-3.8	32	8	29	7
Qatar	ŏ	106	15	ŏ	6	•	-0.4	-2.8	15	7	14	6
Saudi Arabia	ŏ	202	30	Ŏ	15	•	-0.8	-2.5	33	16	28	15
State of Palestine ¹²	Ŏ	140	33		21	•	-0.6	-1.9	36	23	30	18
Syrian Arab Republic	ŏ	141	26	ŏ	18	•	-0.4	-1.6	29	20	23	16
Turkey	ŏ	218	56	ŏ	13	•	-2.2	-3.9	64	15	48	11
United Arab Emirates	ŏ	181	16	Ŏ	6	•	-0.5	-3.1	18	7	15	5
Yemen	Õ	251	84		54	***	-1.5	-1.8	89	58	78	49
EUROPE	\bigcirc	72	13		5	~	-0.4	-2.9	14	6	11	5
Eastern Europe	\bigcirc	90	19		8	< <u> </u>	-0.6	-3.0	22	9	17	7
Belarus	\bigcirc	96	15		4	••	-0.6	-3.7	17	5	13	3
Bulgaria	\bigcirc	92	15		9	••	-0.3	-2.1	17	10	13	8
Czech Republic		46	9		2	••	-0.3	-3.7	11	3	8	2
Hungary	\bigcirc	72	13		5	••	-0.4	-3.2	15	5	12	4
Poland	\bigcirc	79	16		5	••	-0.6	-3.6	18	5	15	4
Republic of Moldova ¹³	\bigcirc	81	29		11	•	-0.9	-3.1	33	12	25	10
Romania	\bigcirc	91	23		10	••	-0.7	-2.9	25	10	20	9
Russian Federation		101	22		8	•	-0.7	-3.1	25	9	19	7
Slovakia	\bigcirc	74	12		5	••	-0.3	-2.9	13	5	10	4
Ukraine ¹⁴	\bigcirc	79	17		9	< <u> </u>	-0.4	-2.3	20	10	14	8
Northern Europe ¹⁵	\bigcirc	34	7		4	·	-0.2	-2.4	8	4	6	3
Channel Islands ¹⁶	Õ	32	14		8	•	-0.3	-2.1	16	8	11	8
Denmark	Ŏ	28	6	ŏ	3	•	-0.1	-2.3		3		4
Estonia	$\overline{\mathbf{O}}$	85	16	ŏ	3	•	-0.7	-4.0	18	4	14	3
Finland ¹⁷		34	5		2		-0.1	-2.8	6_	ว	 5	3
Iceland		21	5		2	•	-0.1	-2.9	0 6	2	ر ۲	2
Ireland		41	7		2	•	-0.2	-2.8	0 8	2	4	2
Latvia		77	18		6		-0.6	-3.2	19	7	16	6
Lithuania		108	16		4		-0.6	-3.9	18	4	15	3

	ł						Average a	nnuai				
	Bot	th sexe	S				change (19	990-2015)	Male		Female	
Country or area	19	50-55	1990-9	95 2	2010-15	1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)		(2)	(3)		(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Norway ¹⁸		22		6	3		-0.2	-2.9	7	3	5	2
Sweden	ŏ	20	ŏ	5	3	•	-0.1	-2.4	6	3	5	2
United Kingdom	Õ	29	Ŏ	7	4	•	-0.1	-2.0	8	5	6	4
Southern Europe ¹⁹		78		10	4	•	-0.3	-3.2	11	4	9	3
Albania		145		31	14	•	-0.8	-2.7	33	15	28	14
Bosnia and Herzegovina	ŏ	189		18	8	•	-0.5	-2.9	20	8	16	7
Croatia	Õ	96		10	4	•	-0.3	-3.1	10	4	10	3
Greece	Õ	46	Ŏ	8	3	•	-0.3	-3.3	9	3	8	3
Italy	Õ	60	Ŏ	8	2	•	-0.3	-3.5	8	2	7	2
Malta	Ō	51		10	5	•	-0.2	-2.5	11	6	8	4
Montenegro		120		18 🌘	4	•	-0.7	-3.8	18	5	18	4
Portugal	Ō	93		10	3	•	-0.3	-3.3	11	4	8	3
Serbia ²⁰		118		17	10	•	-0.4	-2.2	19	11	15	8
Slovenia		23	Ŏ	7	3	•	-0.2	-3.0	8	3	6	3
Spain ²¹		65		7	3	•	-0.2	-2.7	7	3	6	3
TEYR Macedonia ²²		136		77	10	•	-0.8	-3.1	28	11	25	9
Western Europe ²³		130		-/	10		0.0	2.1	20	11	25	2
Austria		44 EE		4	2	•	-0.2	-2.5	/	4	0	3
Rolgium		22		6	2	•	-0.2	-2.0	ہ ۵	4	7	2
France		40		7	3	•	-0.2	-2.5	8	4	, 6	3
Germany		40		6	3	•	-0.2	-2.5	7	7	5	3
Luxembourg		40		7	2	•	-0.2	-2.5	7	2	5	1
Netherlands		23		6	3	•	-0.5	-2.2	, 7	2	, 5	3
Switzerland		29		6	4	•	-0.1	-2.0	, 7	4	5	4
LATIN AMERICA AND THE CARIBBEAN		127		39	20	•	-1.0	-2.4	43	23	35	17
Caribbean ²⁴		125		46	27	•	-0.9	-2.0	49	30	42	24
Antigua and Barbuda		93		18	9	•	-0.5	-2.5	23	13	13	6
Aruba	Ŏ	69		19	15	•	-0.2	-1.1	22	17	15	13
Bahamas	Ŏ	71		16	9	•	-0.3	-2.1	18	10	13	8
Barbados	Õ	86		17	10	•	-0.4	-2.1	19	11	15	8
Cuba	ŏ	81		10	5	•	-0.2	-2.2	11	6	8	5
Curaçao	ŏ	66		15	10	•	-0.2	-1.5	16	12	13	9
Dominican Republic		153	Õ	48	25	•	-1.1	-2.4	53	29	42	21
Grenada		108		18	10	•	-0.4	-2.3	18	10	17	9
Guadeloupe ²⁵		81		14	6	•	-0.4	-2.9	15	7	12	5
Haiti	Ŏ	222) i	86	47	•	-1.9	-2.3	91	51	81	42
Jamaica	Õ	90		23	15	•	-0.4	-1.7	24	16	21	14
Martinique	Ō	81		14	6	•	-0.4	-2.7	15	7	12	6
Puerto Rico	Ō	63		12	6	•	-0.3	-2.3	13	7	10	6
Saint Lucia		148		17	11	•	-0.3	-1.9	21	12	14	9
Saint Vincent and the Grenadines		122		22	17	*	-0.3	-1.3	27	19	17	13
Trinidad and Tobago		83		28	25	•	-0.2	-0.6	31	27	25	23
United States Virgin Islands		58		15	9	•	-0.3	-1.9	16	8	15	11
Central America		127		36	19	•	-0.8	-2.3	39	22	33	17
Belize		100		30 🤇	14	• • • • •	-0.8	-2.6	31	16	28	13
Costa Rica		103		15 🌘	9		-0.3	-1.8	16	10	13	9
El Salvador		150	- 4	41	17		-1.2	-2.9	45	19	37	15
Guatemala		141		55	23		-1.6	-2.9	60	28	50	18
Honduras		169		43 🤇	28		-0.8	-1.8	48	32	38	23
Mexico		121		33	19		-0.7	-2.2	36	21	31	16
Nicaragua		172	4	48	20		-1.4	-2.9	54	22	42	18
Panama	\bigcirc	86		26	15		-0.6	-2.1	30	18	22	12

Infant mortality rate (deaths under age 1 per 1,000 live births)*

					Average a	nnual				
	Both sex	es			change (19	990-2015)	Male		Female	
Country or area	1950-55	1990-95	2010-15	1950-2015	Absolute	Per cent	1990-95	2010-15	1990-95	2010-15
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
South America ²⁶	127	39	19		-1.0	-2.6	44	22	35	16
Argentina	64	24	14	•	-0.5	-2.2	27	16	22	12
Bolivia (Plurinational State of)	173	85	43	←	-2.1	-2.5	92	46	78	39
Brazil	137	43	20	←	-1.1	-2.6	47	24	38	17
Chile	130	20	7	←	-0.6	-3.2	25	9	14	6
Colombia	123	28	18	•	-0.5	-1.8	31	21	24	15
Ecuador	138	43	21	•	-1.1	-2.6	49	22	37	20
French Guiana	103	21	10	•	-0.6	-2.7	26	11	15	8
Guyana	72	45	33	←	-0.6	-1.3	50	38	40	29
Paraguay	73	43	29	•	-0.7	-1.6	48	33	37	24
Peru	159	55	19	••	-1.8	-3.3	62	22	49	16
Suriname	78	35	17	•	-0.9	-2.5	39	19	29	16
Uruguay	57	20	13	•	-0.4	-1.8	23	14	18	11
Venezuela (Bolivarian Republic of)	108	23	14	•	-0.5	-2.1	26	15	20	12
NORTHERN AMERICA 27	31	9	6		-0.1	-1.6	10	6	8	5
Canada	39	6	5	••	-0.1	-1.3	7	5	6	4
United States of America	30	9	6	•	-0.1	-1.6	10	7	8	5
OCEANIA	60	28	20	•	-0.4	-1.4	31	21	26	19
Australia/New Zealand	24	7	4	←	-0.1	-2.1	8	5	6	3
Australia ²⁸	24	7	• 4	•	-0.1	-2.1	8	4	6	3
New Zealand	27	8	4	•	-0.2	-2.1	8	5	7	4
Melanesia	143	62	44	•	-0.9	-1.5	66	44	57	43
Fiji	64	25	16	◆ ◆	-0.5	-1.8	27	18	23	14
New Caledonia	117	24	13	••	-0.6	-2.3	30	15	18	11
Papua New Guinea	158	67	48	•	-1.0	-1.4	72	48	61	47
Solomon Islands	146	78	38	•	-2.0	-2.6	79	41	77	35
Vanuatu	170	52	24	•	-1.4	-2.7	56	27	47	20
Micronesia ²⁹	103	42	28	•	-0.7	-1.7	46	32	37	23
Guam	83	21	10	•	-0.6	-2.7	24	11	17	9
Kiribati	143	64	47	•	-0.9	-1.4	75	57	52	35
Micronesia (Fed. States of)	97	42	33	•	-0.5	-1.1	42	33	43	32
Polynesia ³⁰	98	27	16	•	-0.6	-2.1	29	16	25	15
French Polynesia	130	18	7	•	-0.6	-3.1	19	7	17	7
Samoa	107	36	20	←	-0.8	-2.3	39	20	33	19
Tonga	59	26	20	••	-0.3	-1.1	24	20	29	21
Legend:	<u>Columns</u>	2-4:		Column 5:			<u>Columns</u>	<u>6-7:</u>		
	colored a < 25 = bl 25-49 = g	c ircles lack gray		<i>colored dot</i> minimum va maximum va	<i>on time tre</i> alue = blue d alue = red d	nd lot ot	cell color light blue dark blue	shading b = slower = fastest	by pace of pace of de pace of de	decline cline cline
	50-99 = 1 100+ = re	ignt red ed								
	cell color shading by mortality level									

green = low

red = high

(*) Source: United Nations, Department of Economic and Social Affairs, Population Division (2015) *World Population Prospects: The 2015 Revision, DVD Edition*. Accessed on 12 Nov. 2015 at: http://esa.un.org/unpd/wpp/DVD/

File MORT/7-1: Life expectancy at birth (both sexes combined) by major area, region and country, 1950-2100 (years POP/DB/WPP/Rev.2015/MORT/F07-1 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL FILES/3 Mortality/WPP2015 MORT F01 1 IMR BOTH SEXES.XLS

Probability of dying between age 15 and 60 (45q15), per 1,000 alive at age 15 st

									Excess n	nale mor	tality
	Both	sexe	S		Male		Female		(ratio N	1ale / Fe	male)
Country or area	1950-	55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	5 2010-1	5 1950-2015
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
WORLD	93	84 (153		419	182	348	122	1.20	0 1.4	9
More developed regions ^a	2	01	112		247	152	161	72	1.53	3 🛑 2.1	1
Less developed regions ^b	4	70 (9 161		494	188	444	133	1.11	l 🔵 1.4	1
Least developed countries ^c	4	88 (240	•	513	263	462	217	1.11	l 🔵 1.2	1
Other less developed countries ^d	4	67	151	► <u></u>	492	178	441	121	1.11	l 🔵 1.4	7
Less developed regions, excluding China	4	64	9 190	•	479	223	449	156	1.07	7 🔵 1.4	3
High-income countries ^e	2	.09	104	• • ••••	254	139	168	68	1.51	L 🔵 2.0	4
Middle-income countries ^e	4	58	156	•	484	185	431	126	1.12	2 🔵 1.4	7
Upper-middle-income countries ^e	6 4	40	115	•	479	139	399	91	1.20) 🔵 1.5	3
Lower-middle-income countries ^e		76	197	•	487	231	464	160	1.05	5 🔵 1.4	4
Low-income countries ^e		30	271	•	568	205	/03	247	1 1	. 11	
Sub Sabaran Africa ^f		00	271		520	200	455	202	1.13	2 - 1.1	1
		72	285		505	308	4/3	263			7
Fastern Africa		.88	205		518	320	442	203		$\frac{1}{3}$ 1 1	8
Burundi		.64	307	•	497	336	430	270		1 - 12	1
Comoros	0 5	02	235	•	533	260	471	210	1.13	3 1.2	4
Djibouti		42	259	•	471	281	414	235	1.14	1.2	0
Eritrea	6	08	272	•	650	307	568	238	1.14	1.2	9
Ethiopia	Ŭ 5	22	241	•	552	267	493	216	1.12	2 🔵 1.2	4
Kenya	<u> </u>	29	290	\sim	461	309	395	271	1.17	7 🔴 1.1	4
Madagascar	4	95	232	••	515	257	474	208	1.09	9 🔵 1.2	4
Malawi	4	43 (303		466	316	422	291	1.11	1.0	9 — 🔶
Mauritius ¹	• 3	97 (149	·	446	198	348	97	1.28	3 🔴 2.0	5
Mayotte	4	07	100	•	465	144	324	56	1.43	3 🦲 2.5	8 • • • •
Mozambique	5	56	404	•	585	433	527	380	1.11	1.1	4
Réunion	93	93 (99	••	465	144	324	56	1.43	3 🔴 2.5	8
Rwanda	4	53	250		485	326	423	185	1.15	5 🛑 1.7	6
Seychelles	2	96 (173		336	243	257	94	1.31	L 🛑 2.5	9
Somalia	9 5	24 (321		555	350	492	291	1.13	3 🔵 1.2	0 0
South Sudan	6	00	343		630	357	566	329	1.11	L 🛑 1.0	8
Uganda	4	54 (344	\sim	485	373	423	317	1.15	5 🔵 1.1	8
United Republic of Tanzania ²	4	40 (276	\sim	472	298	409	253	1.16	5 🔵 1.1	8
Zambia	4	31 (320		461	345	401	297	1.15	5 🔵 1.1	6
Zimbabwe	93	64 (463		392	477	336	450	1.17	1.0	6
Middle Africa		.90 (316		524	337	459	295	1.14	1.1	4
Angola		72	352	•	604	3//	539	328	1.12		5
Cameroon Control African Bonublic		20	366		499	379	442	353	1.1:		/ —
		00	420		502	202	499	41Z 2E1	1.13		2
Congo		10	270		545 1/12	292	455	260	1.20		5
Democratic Republic of the Congo		.63	273	•	442	297	436	200		1 - 12	0
Equatorial Guinea		18	309	•	549	329	486	240	1.1	3 - 1.1	5
Gabon		88	258		520	255	457	263	1.14	0.9	7
Sao Tome and Principe		86	194	•	411	221	356	168	1.15	5 1.3	2
Northern Africa		33	147	•	370	175	295	117	1.26	5 1.4	9
Algeria	. 3	74	113	•	398	138	349	87	1.14	1.5	9
Egypt	<u> </u>	52 (157	•	304	193	198	117	1.54	ļ 🍎 1.6	5•
Libya	• 4	55	140	•	475	176	433	101	1.10) 🛑 1.7	5
Morocco	03	46	100	••	381	108	310	91	1.23	3 🔵 1.2	0 ~~~
Sudan	• 4	04	230	••	432	259	376	202	1.15	5 🔵 1.2	8
Tunisia	4	89	102	•+	503	129	474	75	1.06	5 🛑 1.7	2*
Western Sahara	5	43 (184	• • • • • • • • • • • • • • • • • • • •	577	206	506	154	1.14	l 🔵 1.3	4

United Nations Department of Economic and Social Affairs/Population Division World Mortality Report 2015

Probability of dying between age 15 and 60 (45q15), per 1,000 alive at age 15*

								Excess n	nale morta	ality
	Both sex	Male		Female		(ratio N	lale / Fem	ale)		
Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	2010-15	1950-2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Southern Africa	534	434	$\widehat{}$	563	462	507	412	1.11	1.12	
Botswana	396	303	$ \longrightarrow $	435	346	363	260	1.20	1.33	
Lesotho	459	584		493	580	432	593	1.14	0.98	
Namibia	466	286	\checkmark	508	330	424	247	1.20	1.34	
South Africa	544	435	\frown	570	463	519	412	1.10	1.12	
Swaziland	470	568		510	557	432	584	1.18	0.95	
Western Africa ³	526	328		555	345	496	311	1.12	1.11	
Benin	511	251	•	508	275	515	228	0.99	1.21	
Burkina Faso	558	270	•	594	287	512	257	1.16	1.11	
Cabo Verde	393	120	• • • • • •	421	143	368	102	1.14	. 🔵 1.40	
Côte d'Ivoire	489	415		514	430	463	396	1.11	. 1.09	
Gambia	572	270	•	604	297	540	243	1.12	1.22	
Ghana	430	254		448	274	411	236	1.09	1.16	-
Guinea	537	282		566	294	505	270	1.12	1.09	-
Guinea-Bissau	504	283	•	535	310	474	257	1.13	1.21	
Liberia	556	257		599	277	500	239	1.20	1.16	
Mali	607	269	•	637	268	573	272	1.11	0.98	
Mauritania	471	209	•	488	231	454	186	1.08	1.24	\rightarrow
Niger	511	231	•	529	246	498	211	1.06	1.17	
Nigeria	524	367	•	557	383	492	352	1.13	1.09	
Senegal	508	198	•	533	233	485	168	1.10	1.39	· ····
Sierra Leone	558	410	\sim	567	413	551	407	1.03	1.01	
Τορο	509	281	•	536	298	483	266	1.11	1.12	
ASIA	471	136		495	163	446	108	1.11	1.50	
Eastern Asia	453	87	•	494	103	408	71	1.21	1.44	~
China ⁴	476	89	•	516	102	431	74	1.20	1.37	~~
China Hong Kong SAR ⁵	226	10	•	203	-0-	172	34	1 70		
China, Macaa SAB^{6}	220		•	200	00	220	J- /1	1 22		-
Chillia, Macao SAR	249		•	2/9	127	250	41	1.22	1.93	
	28/	90	•	317	102	255	20 111	1.20	2.38	
Japan				744	183	209	111	1.40		-
Nongolia Depublic of Koroo	247	230	•	274	204	220	40 125	1.25	1.93	-
Other pen specified areas	405			120	504	323	20	1.1/	2.20	
	405			459	97	570	59	1.19	2.47	-
South-Central Asia	533	1/8	•	528	211	538	143	0.98	1.48	
	296	196		388	263	205	131	1.89	2.01	
Kazakhstan	316	216		443	306	193	127	2.29	2.42	
Kyrgyzstan	339	183		433	254	251	113	1./3	2.24	•
Tajikistan	225			253	209	198	120	1.28	1.74	
Turkmenistan	340	228		406	300	2/5	155	1.48	1.93	
Uzbekistan	2/3			352	239	195	135	1.81		
Southern Asia	540	1/8		533	209	550	143	0.9/	1.46	
Afghanistan	630	268		653	289	600	245	1.09	1.18	•
Bangladesh	327	136		326	157	328	113	1.00	1.38	
Bnutan	617	220	•	642	216	589	226	1.09	0.95	
ingia	571	188		564	223	580	151	0.97	1.48	*
iran (Islamic Republic of)	405	87		3/2	108	438	66	0.85	1.63	
iviaidives	470	/4		456	87	490	61	0.93	1.42	
Nepal	559	166	•	5/9	185	541	147	1.07	1.26	+
Pakistan	431	164	•	420	181	443	146	0.95	1.24	+
Sri Lanka	301	141		333	205	254		1.31	. 🛑 2.65	

Probability of dying between age 15 and 60 (45q15), per 1,000 alive at age 15*

									Exces	s ma'	le morta	lity
	Both	sexes			Male		Female		(ratio) Mal	le / Fema	ale)
Country or area	1950	-55 2	010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-	-55 2	2010-15	1950-2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	1	(10)	(11)
South-Fastern Asia		353	173	•	381	214	325	131	1	18	1.64	
Brunei Darussalam		280	74	•	305	90	252	56	1	.21	1.63	
Cambodia		531	184		553	218	510	155	1	08	1 40	•
Indonesia		315	187	•	323	210	307	152	1	05	1 38	-
Lao Pooplo's Domocratic Popublic		175	206	•	525	210	127	196	1	17	1.30	
		475	200	•	515	227	437	100		.17	1.22	
Malaysia		326	128	•	336	1/2	314	83	1.	.07	2.06	• • •
Myanmar		535) 204		588	233	479	177	1.	.23 🌘	1.32	•
Philippines	\bigcirc	306) 215		330	276	283	148	1.	.17	1.86	
Singapore	\bigcirc	300) 58		346	/4	249	41	1.	.39	1.81	
Thailand	\bigcirc	338) 160		366	211	311	108	1.	.18 🌘	1.95	
Timor-Leste	\bigcirc	610) 158		633	181	588	134	1.	.08 (1.35	
Viet Nam	\bigcirc	294	130		351	189	234	69	1.	.50	2.75	
Western Asia		367	126		408	155	326	93	1.	.25	1.67	
Armenia	\bigcirc	226) 121	\sim	276	173	179	72	1.	.54 🧲	2.41	
Azerbaijan ⁹	\bigcirc	171 🔵	133	\checkmark	247	179	103	88	2.	.41 🌗	2.04	~
Bahrain		393 🧲	72	••	440	77	331	61	1.	.33 🌘	1.26	
Cyprus ¹⁰	\bigcirc	151 🧲	55	•	189	74	114	36	1.	.66 🌔	2.06	• • • • • •
Georgia ¹¹	Õ	267	118	•	358	174	185	66	1.	.94 🌔	2.65	
Irag		464	168	•	482	200	447	136	1	.08	1.47	·
Israel		149	57	•	164	74	132	41	1	.25	1.81	
Iordan		373	114	•	399	131	341	96	1	.17	1.36	
Kuwait		251	83	•	271	99	219	60	1	.24	1.66	
Lebanon	ŏ	261	66	•	286	76	234	53	1	.22	1.43	
Oman		433	103	•	456	116	407	73	1	.12	1.60	
Oatar		268	71	•	309	-10	221	49	1	40	1 60	
Saudi Arabia		396	90	•	431	96	357	82	1	21	1 17	
State of Palosting ¹²		412	124	•	101	146	271	102		20 (1 1 1	-
State of Palestille		412 257	104	•	245	200	271	102		.20	2.26	·
		201	111	•	54Z	290	221	09 76		.92	5.20	
Lusited Areh Emirates		267		•	432	147	331	70		.30	1.94	~ ~
Vomen		400	79	•	411	240	319	29	1	.29	1.42	
			120	•	244	170	400	200		.15	2.24	
		197	107		244	205	150	109		.50	2.34	
Deleme			214		294	285	172	108		./1	2.03	
Belarus		214	214		2/1	319	1/0	108		.59	2.95	
Bulgaria		191	140		210	193	167	80		.29	2.20	
		107	152		232	120	146	50	1.	.59	2.13	
Hungary		195	153	\sim	229	210	164	96		.40	2.20	
Poland		243	120		293	172	198	67	1.	.48	2.58	• • •
Republic of Moldova ²⁹	\bigcirc	288) 173	~~~	367	246	215	102	1.	.71 🌘	2.41	
Romania	\bigcirc	207	140	\sim	235	199	181	80	1.	.30 🧲	2.48	•
Russian Federation	\bigcirc	239) 235		343	341	172	128	2.	.00 🥊	2.68	
Slovakia	\bigcirc	188 🥘	120		221	172	157	67	1.	.40 🤇	2.55	
Ukraine ¹⁴		204 🤇	206	\checkmark	270	299	157	114	1.	.72 🌔	2.62	
Northern Europe ¹⁵	\bigcirc	168 🧲	78	•	204	99	134	57	1	.52 🌔	1.75	
Channel Islands ¹⁶	\bigcirc	164 🦱	55	• -	198	66	133	44	1.	.49 🌔	1.48	
Denmark		139	75		157	92	122	57	1.	.28 🤇	1.62	
Estonia		214	130		303	193	152	68	2.	.00	2.82	
Finland ¹⁷		216	81	•	286	110	151	52	1	.90	2.13	\checkmark
Iceland		149	51	•	179	64	117	32	1	.53	1.66	· · · · · · ·
Ireland		197	68	•	212	8 <u>/</u>	120	50	1	18	1 62	
Latvia		213	164		213	2/2	150	91 97	1	87 /	2.03	
Lithuania		213	179	-	292 275	243	150	۵7 ۵۶	1	76	2.70	
Entradina			1/0	L 🕶 👘 🐪	215	204	100	52	- <u> </u>		2.00	9

Probability of dying between age 15 and 60 (45q15), per 1,000 alive at age 15 st

									Excess n	nale morta	ality
	Both s	exes			Male		Female		(ratio N	Iale / Fem	ale)
Country or area	1950-	55 2	010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	2010-15	1950-2015
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Norway ¹⁸	1	25	63	•	149	77	101	47	1.47	1.62	\sim
Sweden	1	35	56	•	154	67	116	44	1.33	1.54	-
United Kingdom	0 1	67	73	•	204	90	133	57	1.54	1.60	
Southern Europe ¹⁹	1	91	67	•	227	90	158	45	1.43	2.00	-
Albania	2	28	70	•	233	89	224	52	1.04	1.72	
Bosnia and Herzegovina	2	39	101	•	268	133	212	68	1.26	1.96	-
Croatia	2	24	99	•	270	138	181	58	1.49	2.37	
Greece	2	00	76	• • • •	237	105	165	46	1.44	2.29	
Italy	1	67	54	••	202	70	135	39	1.49	1.81	
Malta	0 1	77	58	••	203	73	151	42	1.35	1.74	
Montenegro	2	23	104	••	253	133	197	74	1.28	1.79	\sim
Portugal	2)7 🔵	80	• • • •	255	113	165	48	1.55	2.35	++
Serbia ²⁰	2	40	118	••	256	155	224	81	1.14	1.92	
Slovenia	2	65	78	••	330	106	204	49	1.62	2.18	
Spain ²¹	1	95	61	•	233	82	160	39	1.46	2.09	
TFYR Macedonia ²²	2	91	106	•	298	137	284	73	1.05	1.89	-
Western Furone ²³		74	74	•	212	95	140	52	1 51	1 85	-
Austria		33	68	•	212	89	145	45	1.51	1.05	
Belgium		78	78	•	221	99	136	58	1.62	1.72	·
France		95	81	•	244	110	149	53	1.64	2.08	
Germany	0 1	58	73	•	201	94	140	51	1.43	1.83	-
Luxembourg	2	00	68	•	247	85	151	49	1.63	1.76	
Netherlands	1	26	60	•	144	67	108	53	1.33	1.28	
Switzerland	1	53	54	•	199	67	129	40	1.55	1.69	
LATIN AMERICA AND THE CARIBBEAN	3	32	138	••	358	180	305	95	1.17	1.91	
Caribbean ²⁴	3	15 🤇	153	•	337	185	291	120	1.16	1.53	
Antigua and Barbuda	2	88	133	••	305	158	274	111	1.11	1.42	•
Aruba	2	51	96	••	284	120	240	75	1.18	1.61	
Bahamas	2	64	163	• • • • •	291	204	242	122	1.21	1.67	
Barbados	2	94	102	• • • • • • • • • • • • • • • • • • • •	333	129	264	77	1.26	1.67	••
Cuba	2	55	94	••	280	113	225	73	1.25	1.54	
Curaçao	2	78	102	••	300	142	255	68	1.18	2.09	
Dominican Republic	3	52	166	•	374	209	325	123	1.15	1.70	•
Grenada	2	52	146	•	292	189	221	101	1.32	1.87	•
Guadeloupe ²⁵	4	01	87	• • • • •	440	128	365	51	1.21	2.50	
Haiti	4	51	252	• • • •	467	283	436	222	1.07	1.28	•
Jamaica	2	52	136	••	272	168	233	103	1.17	1.64	
Martinique	3	88	71	• • • •	407	101	371	46	1.10	2.21	• • • •
Puerto Rico	2	46	101	••	284	148	204	56	1.39	2.62	
Saint Lucia	2	86	141		330	171	245	112	1.35	1.53	\sim
Saint Vincent and the Grenadines	3	55	159		379	184	337	132	1.12	1.40	
Trinidad and Tobago	3)5) 173		323	219	286	126	1.13	1.74	
United States Virgin Islands	3	28	65		360	81	298	51	1.21	1.59	
Central America	3	52	126		394	162	330	90	1.20	1.80	
Belize	2	95 () 183		317	227	273	136	1.16	1.66	
Costa Rica	2	/2	91	•	287	119	256	62	1.12	1.92	•
El Salvador	4	39	185	•	495	272	379	108	1.31	2.52	+
Guatemala	4		185	•	445	241	443	132	1.00	1.83	•
Honduras	4	37	151	•	461	1/7	412	124	1.12		
IVIEXICO		43 C	115	•	3/9	147	307	83	1.23	1./8	
Nicaragua	4		154	•	493	200	418	110	1.18	1.82	
Panama	2	95	120		305	156	284	82	1.07	1.90	•

Probability of dying between age 15 and 60 (45q15), per 1,000 alive at age 15*

	Dath			Mala		Famala		Excess m	ale morta	ality
	Boths	sexes		iviale		Female		(ratio ivi	ale / Fem	ale)
Country or area	1950-	55 2010	15 1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	2010-15	1950-2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
South America ²⁶	3	25 🔵 1	.40	350	187	299	94	1.17	2.00	
Argentina	2	47 🔵 1	.17	287	158	200	77	1.44	2.05	
Bolivia (Plurinational State of)	4	17 🔵 1	.93	441	224	395	162	1.12	1.38	+
Brazil	3	51 🔵 1	.49	369	200	334	97	1.10	2.07	++
Chile	2	.99	74	333	101	265	46	1.26	2.20	++
Colombia	3	27 🔵 1	.45	358	196	297	92	1.21	2.12	
Ecuador	3	49 🔵 1	.30 *	364	169	335	90	1.09	1.88	••
French Guiana	3	42	66	383	89	289	43	1.33	2.04	
Guyana	2	.93 🔵 2	15	334	252	248	176	1.35	1.43	\sim
Paraguay	1	.98 🔵 1	.48	226	168	173	128	1.31	1.31	
Peru	3	64 🔵 1	.29 +	392	159	334	99	1.17	1.60	•
Suriname	3	22 🔵 1	.76	348	225	293	124	1.19	1.82	
Uruguay	2	.04 🔵 1	.09 + 09	251	140	151	78	1.66	1.78	
Venezuela (Bolivarian Republic of)	3	32 🔵 1	.47 •	355	199	307	93	1.15	2.15	
NORTHERN AMERICA 27	0 1	.98 🔵 1	.02	243	127	151	76	1.62	1.67	\sim
Canada	1	.71 🔵	66	204	80	135	51	1.51	1.57	
United States of America	2	.00 🔵 1	.06	247	132	152	79	1.63	1.68	\sim

Probability of dying between age 15 and 60 (45q15), per 1,000 alive at age 15*

	Bot	h cov				Malo		Fomalo		Exc	ess ma	ale morta	ality alo)
Country or area	195	0-55	2010-	15 19	50-2015	1950-55	2010-15	1950-55	2010-15	19	50-55	2010-15	1950-2015
(1)	(2)	(3)	13 13	(4)	(5)	(6)	(7)	(8)		(9)	(10)	(11)
OCEANIA	\bigcirc	270	1	03 🔭		305	123	234	83	\bigcirc	1.30	1.49	
Australia/New Zealand	\bigcirc	174		63 🔭		210	79	137	47		1.53	1.67	
Australia ²⁸	\bigcirc	176		62 🔶		214	78	136	46		1.57	1.71	
New Zealand	Ō	167	Ó	66 🔶		194	81	140	53		1.39	1.54	·
Melanesia		640	2	55 🛀		657	292	618	217		1.06	1.35	
Fiji	\bigcirc	317	1	93 🛀		343	239	285	143		1.20	1.67	•
New Caledonia		368		88 🔶		391	112	339	63		1.16	1.77	• • • •
Papua New Guinea	\bigcirc	691	2	82 📩		709	319	671	243		1.06	1.31	
Solomon Islands		428	1	83 📩		443	203	398	162		1.11	1.25	
Vanuatu		465	1	37 📩		495	161	432	113		1.15	1.43	••
Micronesia ²⁹	\bigcirc	335	1	21 📩		355	142	309	99		1.15	1.44	
Guam	\bigcirc	303		68 🔶		327	85	260	50		1.26	1.72	
Kiribati		412	2	03 🛀		452	244	373	163		1.21	1.50	• • • • •
Micronesia (Fed. States of)	\bigcirc	325	1	67 🔶		341	181	307	154		1.11	1.18	
Polynesia ³⁰		455	1	20 🛀		488	149	417	89		1.17	1.68	
French Polynesia	Ó	477	1	09 🛀		491	135	460	79		1.07	1.71	
Samoa		530	1	33 🔶		585	166	465	97		1.26	1.70	••
Tonga	\bigcirc	337	1	37 🔶		348	171	327	105		1.06	1.62	••
Legend:	<u>Colı</u>	umns	2 and 3	<u>3:</u>		<u>Columns</u>	4 and 11:			<u>Col</u>	umns	9 and 10:	
	colo	red c	ircles			colored d	ot on time	e trend		colo	ored c	ircles	
	< 15	50 = b	lack			minimum	value = b	lue dot		< 2!	5 perc	entile = b	lack
	150	-249 :	= gray			maximum	n value = r	ed dot		25-	49 per	centile =	gray
	250	-349 =	= light	red						50-	75 per	centile =	light red
	350	+ = re	d							75+	- perce	entile = re	ed
	<i>cell</i> gree red	<i>color</i> en = lo = higł	<i>shadir</i> วพ า	ng by r	mortality i	level							

(*) Source: United Nations, Department of Economic and Social Affairs, Population Division (2015).*World Population Prospects: The 2015 Revision, DVD Edition*. Accessed on 12 Dec. 2015 at: http://esa.un.org/unpd/wpp/DVD/

File MORT/11-1: Probability of dying between the ages of 15 and 60 years (both sexes combined) by major area, region and country, 1950-210(POP/DB/WPP/Rev.2015/MORT/F11-1 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL FILES/3 Mortality/WPP2015 MORT F11 1 Q1545 BOTH SEXES.XLS

http://esa.un.org/unpd/wpp/DVD/Files/1 indicators%20(standard)/Excel_Files/3_Mortailty/wPP2015_MORT_F11_1_Q1545_BOTH_SEXES.XLS

File MORT/11-2: Male probability of dying between the ages of 15 and 60 years by major area, region and country, 1950-210(POP/DB/WPP/Rev.2015/MORT/F11-2 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL FILES/3 Mortality/WPP2015 MORT F11 2 Q1545 MALE.XLS

File MORT/11-3: Female probability of dying between the ages of 15 and 60 years by major area, region and country, 1950-210(POP/DB/WPP/Rev.2015/MORT/F11-3 > Estimates, 1950 - 2015 <u>http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL FILES/3 Mortality/WPP2015 MORT F11 3 Q1545 FEMALE.XLS</u>

Probability of surviving between birth and age 60 (60p0), per 1,000 live births*

										Defic	it ma	ale survi	val
	Bot	1 sex	es			Male		Female		(ratio	o Ma	le / Fem	ale)
Country or area	195	0-55	201	0-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950	-55	2010-15	1950-2015
(1)	(1	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9))	(10)	(11)
WORLD	\bigcirc	460	\bigcirc	797	•	430	767	490	827	0	.88 (0.93	•
More developed regions ^a		729		881		683	841	773	922	0	.88 (0.91	~~
Less developed regions ^b		373	\bigcirc	783		353	757	394	812	0	.90 (0.93	
Least developed countries ^c		318		680	•	297	655	340	705	0	.87 (0.93	
Other less developed countries ^d		381		804		362	776	402	833	0	.90 (0.93	
Less developed regions, excluding China		367	\bigcirc	750	•	355	718	380	784	0	.93 (0.92	
High-income countries ^e		717		888		672	852	761	925	0	.88 (0.92	
Middle-income countries ^e		385	\bigcirc	796		365	767	407	826	0	.90 (0.93	\checkmark
Upper-middle-income countries ^e	\bigcirc	418		859		385	834	455	885	• 0	.85	0.94	
Lower-middle-income countries ^e		354	$\overline{\bigcirc}$	745		346	712	362	780	0	.96 (0.91	
Low-income countries ^e	ŏ	291	$\overline{\mathbf{O}}$	647		263	621	320	672	0	.82	0.92	
Sub-Sabaran Africa ^f	ŏ	310		589		286	567	335	612		85	0.93	
AFRICA	ŏ	335	ŏ	632		311	608	359	655		.87 (0.93	
Eastern Africa	ŏ	324	$\overline{\mathbf{O}}$	633	-	300	605	349	660	0	.86 (0.92	
Burundi	ŏ	352	$\overline{\bigcirc}$	586		324	554	379	619	0	.85 (0.89	
Comoros	ŏ	335	Ŏ	696		310	669	361	724	0	.86 (0.92	
Djibouti	Ŏ	379	Ŏ	663	••	355	638	404	690	0	.88 (0.92	
Eritrea	Ŏ	262	Õ	678	••	227	643	298	713	0	.76 (0.90	
Ethiopia		285		687	••	262	657	308	717	0	.85 (0.92	++
Kenya		396	\bigcirc	637	\checkmark	367	614	429	660	0	.86 (0.93	
Madagascar		314		712	•	297	685	333	740	0	.89 (0.93	
Malawi		340	\bigcirc	628		325	613	353	642	0	.92 (0.95	
Mauritius ¹	\bigcirc	487		838		448	788	526	890	0	.85 (0.89	~~~
Mayotte	\bigcirc	449		895	•	402	851	518	940	0	.78 (0.91	
Mozambique	\bigcirc	249	\bigcirc	522	•	228	491	270	550	0	.84 (0.89	
Réunion	\bigcirc	460		896	•	402	851	518	940	0	.78 (0.91	+
Rwanda		366	\bigcirc	682		338	609	393	747	0	.86 (0.82	
Seychelles		613		815		574	743	651	896	0	.88 (0.83	
Somalia		283	\bigcirc	567	+	259	538	310	596		.84 (0.90	
South Sudan		205		556		185	541	230	572		.80	0.95	-
		305		570		338	547	393	605		.00 (0.90	
United Republic of Tanzania		382		6/3		354	649	412	698		.86 (0.93	
		394		602		368	5/5	421	628		.87	0.92	
Middle Africa		320		576		203	405 554	312	500		84	0.95	
Angola	ŏ	220	$\overline{\mathbf{O}}$	520		209	494	257	546		81		
Cameroon	ŏ	345	$\tilde{\mathbf{O}}$	542		321	526	369	558		.87	0.94	
Central African Republic	ŏ	276		461		252	438	302	485	0	.83 (0.90	
Chad	ŏ	311		506		270	487	356	526	0	.76 (0.93	
Congo	Ŏ	409	Ŏ	651		391	628	427	674	0	.92 (0.93	
Democratic Republic of the Congo	Ŏ	353	Õ	623	••	326	599	377	648	0	.86 (0.92	
Equatorial Guinea		290	Ō	595	••	265	574	317	619	0	.84 (0.93	++
Gabon		324	\bigcirc	683	++	298	682	351	682	0	.85 (1.00	
Sao Tome and Principe	\bigcirc	454	\bigcirc	744		431	712	482	775	0	.89 (0.92	
Northern Africa	\bigcirc	435		812	•	413	782	458	843	0	.90 (0.93	
Algeria	0	430	0	850	•	414	817	448	885	0	.92 (0.92	
Egypt	\bigcirc	446	0	819	•	426	782	466	859	0	.91 (0.91	
Libya		337	0	832		318	793	359	875	0	.89 (0.91	
Morocco	0	469		870	•	437	859	503	882	0	.87 (0.97	
Sudan		429		692	+	404	665	455	/20		.89 (0.92	\sim
Nestern Sahara		220		077	•	325	85U 74C	350	904 207		.91 (97 /	ບ.94	
vvcstern Janara		209		115	•	202	740	221	007		.02	0.92	

United Nations Department of Economic and Social Affairs/Population Division World Mortality Report 2015

Probability of surviving between birth and age 60 (60p0), per 1,000 live births*

					Deficit male survival					
	Both sex	es		Male		Female		(ratio Male / Female)		
Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	2010-15	1950-2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Southern Africa	369	522	\sim	342	492	394	548	0.87	0.90	
Botswana	464	664		427	620	498	710	0.86	0.87	
Lesotho	384	370		355	370	409	366	0.87	1.01	
Namibia	377	677		337	628	419	721	0.80	0.87	\sim
South Africa	366	521		342	490	389	547	0.88	0.90	\checkmark
Swaziland	372	382		336	388	409	371	0.82	1.05	••
Western Africa ³	285	575		263	559	307	590	0.86	0.95	
Benin	291	653		290	627	294	680	0.99	0.92	
Burkina Faso	250	634		228	611	278	655	0.82	0.93	
Cabo Verde	469	856		445	832	492	876	0.90	0.95	
Côte d'Ivoire	280	488		264	473	298	506	0.89	0.93	
Gambia	238	653		215	625	262	681	0.82	0.92	
Ghana	402	672		390	652	414	692	0.94	0.94	
Guinea	276	628		254	616	300	640	0.85	0.96	
Guinea-Bissau	313	591		287	560	340	623	0.84	0.90	-
Liberia	269	664		232	644	318	683	0.73	0.94	
Mali	200	625		183	626	219	622	0.84	1.01	
Mauritania	351	709		341	684	361	736	0.94	0.93	·
Niger	303	677		294	661	309	696	0.95	0.95	
Nigeria	289	531		264	518	315	543	0.84	0.95	
Senegal	307	749		290	712	324	781	0.90	0.91	
Sierra Leone	231	487		213	481	251	494	0.85	0.97	\sim
Тодо	306	639		287	622	325	655	0.88	0.95	
ASIA	377	824		359	799	398	852	0.90	0.94	
Eastern Asia	415	898		380	882	454	915	0.84	0.96	
China ⁴	388	896		355	882	427	911	0.83	0.97	
China, Hong Kong SAR ⁵	698	948		635	931	753	964	0.84	0.97	
China Macao SAR ⁶	672	934	•	641	013	694	951		0.96	·
Dem People's Republic of Korea	621	896		580	857	658	937		0.50	
Janan	274	823		182	787	381	860	0.30	0.51	
Mongolia	686	023		659	01Q	71/	957	0.40	0.52	
Republic of Korea	438	751		408	667	469	838	0.52		- An
Other non-specified areas	430	927		400	808	100	957	0.87	0.00	
South Control Asia ⁷	200	760		214	720	202	802	1.04	0.04	+
South-Central Asia	509			314	/39	505	802	1.04	0.92	
Kazakhstan	575	705		492	677	685	000	0.75	0.04	
Kuzakiistaii	572	707		401	774	621	020	0.07	0.79	
Taiikistan	557	795		452	724	620	000	0.75	0.84	
Turkmoniston	500	783		153	735 64E	020 E 97	706	0.89	0.83	
Uzbekistan	521	719		437	709	507	790 010	0.70	0.01	
Southorn Asia	201	764		200	708	202	801	1.05	0.80	+
Afghanistan	201	648		196	627	295	671	0.85	0.93	
Randladoch	/201	922	•	100	800	126	847	0.85	0.93	
Phutan	212	720		427	720	430	729	0.98	1.00	-
	213	759	•	79/	759	251	750			*
Iran (Islamic Republic of)	285	205	-	294 114	/32 97/	2/3	790 017	1.07	0.92	•
Maldives	306	035		414 207	074 000	201	078	1 02		—
Nenal	271	706		207	500 775	201	920 917	- 1.02 - 0.02		
Dakistan	2/1	750	•	200	027 סבד	201	01/ 776	0.93	0.95	-
Sri Lanka	570	8/18		547	730	54Z 620	912		0.95	
Jii Luinku	5/5	040	-	550	/04	020	212	- 0.09	- 0.00	

Probability of surviving between birth and age 60 (60p0), per 1,000 live births*

							Deficit male survival			
	Both sexes			Male		Female		(ratio Male / Female)		
Country or area	1950-5	5 2010-1	5 1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	2010-15	1950-2015
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
South-Eastern Asia	47	1 79	7	440	754	504	841	0.87	0.90	\sim
Brunei Darussalam	62	8 🔵 92	0	601	902	657	939	0.91	0.96	
Cambodia	33	7 🔵 77	3	313	736	361	806	0.87	0.91	
Indonesia	46	0 🔵 78	8	442	759	480	820	0.92	0.93	
Lao People's Democratic Republic	36	6 🔵 73	9	332	717	402	760	0.83	0.94	
Malavsia ⁸	56	9 🔴 86	3	555	818	585	908	0.95	0.90	
Myanmar	29	7 74	1	251	708	351	773	0.72	0.92	
Philippines	58	4 75	7	561	695	607	825	0.92	0.84	
Singapore	63	4 93	9	589	922	684	956	0.86	0.96	
Thailand	50	9 82	3	476	770	546	878	0.87	0.88	-
Timor-Leste	21	9 78	9	206	763	232	816	0.89	0.94	
Viet Nam	56		5	515	784	617	909	0.83	0.51	
Western Asia		6 84	1	397	810	478	876	0.83	0.00	
Armenia	69	5 86		642	810	747	913	0.86	0.52	
Azorbaijan ⁹	67			602	775	776	071		0.05	
Azerbaijan	0/		.3	270	011	/30	020	0.82	0.89	
	42		.0	370	911	490	929	0.76	0.98	
Cyprus	0 77	5 93	.9	738	920	811	960	0.91	0.96	-
Georgia	66	0 🔵 86	i5	572	809	742	919	0.77	0.88	
Iraq	34	3 79	6	326	761	360	830	0.91	0.92	
Israel	80	5 🔵 93	8	787	920	825	954	0.95	0.96	
Jordan	46	1 🔵 86	6	457	848	469	885	0.97	0.96	· · · ·
Kuwait	59	2 🔵 90	4	572	887	621	929	0.92	0.95	
Lebanon	65	8 🔵 92	.3	631	913	688	935	0.92	0.98	•
Oman	34	1 🔵 88	.7	327	872	356	917	0.92	0.95	
Qatar	59	7 🔵 91	.9	555	912	647	942	0.86	0.97	
Saudi Arabia	<u> </u>	7 🔵 89	0	374	883	444	898	0.84	0.98	•
State of Palestine ¹²	44	6 🔵 85	1	413	827	488	876	0.85	0.94	
Syrian Arab Republic	49	1 🔵 78	4	496	691	487	891	1.02	0.78	• • • • • •
Turkey	<u> </u>	4 🔵 86	i5 🔶 🔶	354	827	458	903	0.77	0.92	
United Arab Emirates	44	1 🔵 91	.3	396	906	494	933	0.80	0.97	•
Yemen	30	3 🔵 70	18	282	684	327	730	0.86	0.94	•••
EUROPE	72	1 🔵 86	57	672	816	764	918	0.88	0.89	~~
Eastern Europe	67	1 🔵 79	4	604	706	725	883	0.83	0.80	
Belarus	67	6 🔵 78	0	619	675	725	887	0.85	0.76	
Bulgaria	70	4 🔵 84	.8	677	795	732	904	0.92	0.88	
Czech Republic	76	4 🔵 🤉 90	17	717	876	808	940	0.89	0.93	
Hungary	73	2 🔵 84	2	694	784	769	899	0.90	0.87	+
Poland	68	1 🔵 87	4	630	821	729	928	0.86	0.88	
Republic of Moldova ¹³	63	3 🔵 81	.4	552	740	711	886	0.78	0.84	\sim
Romania	69	4 🔵 84	7	664	789	723	908	0.92	0.87	+
Russian Federation	64	1 75	5	547	649	707	863	0.77	0.75	
Slovakia	73	7 🔵 87	3	701	821	772	927	0.91	0.89	+
Ukraine ¹⁴	69	6 78		631	690	745	876	0.85	0 79	
Northern Europe ¹⁵	70	3 0 01	7	754	895	830	030	0.01	0.95	
Channel Islands ¹⁶				754	000	000	045			
Degreed				700	925	830	945	0.91	0.98	
	82			807	903	850	938	0.95	0.96	~ *
	68	8		602	802	/54	927	0.80	0.8/	
Finland	74	6 9 1	.5	674	886	813	945	0.83	0.94	~
Iceland	82	3 94	5	791	932	856	959	0.92	0.97	
Ireland	75	8 92	.8	739	912	779	945	0.95	0.97	
Latvia	69	2 82	.8	615	750	752	906	0.82	0.83	
Lithuania	67	0 🔵 81	.6	608	729	726	902	0.84	0.81	\sim

United Nations Department of Economic and Social Affairs/Population Division World Mortality Report 2015

Probability of surviving between birth and age 60 (60p0), per 1,000 live births*

								Deficit male survival			
	Both sexes			Male		Female		(ratio Male / Female)			
Country or area	1950-5	5 2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	5 2010-15	1950-2015	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Norway ¹⁸	84	4 🔵 934		817	919	872	949	0.94	1 🔴 0.97		
Sweden	84	941		818	929	862	953	0.9	5 0.97		
United Kingdom	80	1 921		762	904	838	938	0.91	0.96		
Southern Europe ¹⁹	72	927		686	905	757	950	0.91	0.95		
Albania	60	9 913		599	894	619	933	0.97	0.96	+	
Bosnia and Herzegovina	60	2 889		578	857	625	923	0.92	2 0.93		
Croatia	69	2 895		650	855	731	937	0.89	0.91		
Greece	74	7 920		710	890	781	950	0.92	L 🔵 0.94		
Italy	76	4 943		728	927	798	958	0.92	L 🦲 0.97		
Malta	77	2 🔵 936		743	921	802	952	0.93	3 🦲 0.97		
Montenegro	67	0 🔴 889		639	859	697	919	0.92	2 🦲 0.93		
Portugal	67	1 🔵 916		625	882	714	948	0.88	3 🦲 0.93		
Serbia ²⁰	65	3 870		632	832	674	909	0.94	1 🔴 0.92	~	
Slovenia	71	918		648	890	767	948	0.84	0.94		
Spain ²¹	72	8 935		688	913	765	957	0.90	0.95		
TEVP Macadania ²²			*	E00	0E1	F01	010				
	0 30	004		702	000	591	910	0.90			
western Europe				/36	900	817	944	0.90	0.95		
Austria	/6	928	+	/12	906	803	951	0.89	0.95		
Belgium			•	729	896	820	938	0.89			
France				700	000	807	943				
Germany	/8.			743	902	810	945	0.9	0.95		
Luxembourg			•	698	912	806	949				
Switzerland	04		+	822	928	840	943	0.95			
	52	5 9 941		704 498	927 791	555	882			+	
Caribbean ²⁴	54			510	771	569	840				
Antigua and Barbuda	62			597	827	643	881	0.9		~	
	65	7 886		63/	860	679	Q10	0.5		~~~	
Bahamas	65	824		624	782	676	865	0.9	0.55		
Barbados	60	7 886		564	858	643	912	0.52	R 🛑 0.90		
Cuba	65			620	878	686	919	0.00	0.94		
Curação	64	7 885		621	844	674	921	0.92	0.90	·	
Dominican Republic	46	7 807		446	762	492	853	0.91	0.92	-	
Grenada	62	6 840		589	797	656	886	0.90	0.90		
Guadeloupe ²⁵	50			471	863	5/1	9/2	0.8	7 🔴 0.92		
Haiti		672		378	630	364	706		0.52	An .	
lamaica	63			520 616	813	662	880		2 0 0 0	-	
Martinique	53			512	880	555	9/7	0.5	0.52	\checkmark	
Puerto Rico	68	9 892		649	844	732	937	0.52	a 🛑 0.94		
Saint Lucia	55	1 842		511	811	588	874	0.03	7 🛑 0.93	-	
Saint Vincent and the Grenadines	51	6 820		492	792	536	851	0.01	0.93		
Trinidad and Tobago	60	8 797		590	749	627	847	0.94	1 0 88	·	
United States Virgin Islands	61	924		583	910	639	937	0.9	0.97		
Central America	48	849		459	811	520	887	0.8	3 0.91		
Belize	59	1 797		567	751	616	847	0.92	0.89		
Costa Rica	60	4 897		586	868	625	926	0.94	1 0.94	~~	
El Salvador	41	2 795		365	708	464	873	0.79	0.81		
Guatemala	38	5 784		381	725	389	841	0.98	0.86	•	
Honduras	38	7 808	•	365	779	410	839	0.89	0.93		
Mexico	51	8 861		480	827	548	896	0.88	3 0.92		
Nicaragua	38	7 823	•	357	775	418	868	0.85	5 0.89		
Panama	60	0 🔴 859		586	821	616	900	0.95	5 🦲 0.91	•	

United Nations Department of Economic and Social Affairs/Population Division World Mortality Report 2015

Probability of surviving between birth and age 60 (60p0), per 1,000 live births*

								Deficit male survival			
	Both sexes			Male		Female		(ratio Male / Female)			
Country or area	1950-5	5 2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	2010-15	1950-2015	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
South America ²⁶	53	6 🔵 835		508	787	566	885	0.90	0.89		
Argentina	68	3 🔵 867	•	644	825	730	909	0.88	0.91		
Bolivia (Plurinational State of)	38	5 🔵 736	••	361	704	410	770	0.88	0.91		
Brazil	51	2 🔵 828	•	489	774	536	883	0.91	0.88		
Chile	56	1 🔵 912	•	525	883	598	942	0.88	0.94		
Colombia	52	8 🔵 830		496	777	560	885	0.89	0.88		
Ecuador	49	3 🔵 844	•	476	804	511	885	0.93	0.91		
French Guiana	54	5 🔵 922		496	898	607	946	0.82	0.95	++	
Guyana	62	4 🔵 746	•	579	704	673	790	0.86	0.89		
Paraguay	70	9 🔵 818	•	677	795	739	843	0.92	0.94		
Peru	44	5 🔵 841	•	421	808	469	875	0.90	0.92	+	
Suriname	58	0 🔵 801		552	751	611	854	0.90	0.88	+	
Uruguay	74	1 🔵 876	•	694	844	795	908	0.87	0.93		
Venezuela (Bolivarian Republic of)	55	8 🔵 837		535	783	583	893	0.92	0.88	•	
NORTHERN AMERICA 27	76	8 🔵 891		720	865	818	917	0.88	0.94		
Canada	78	6 🔵 928	++	750	913	826	943	0.91	0.97		
United States of America	76	7 🔵 887		718	860	818	914	0.88	0.94		
Probability of surviving between birth and age 60 (60p0), per 1,000 live births*

									Deficit male survival			val
	Both s	exes			Male		Female	(ratio Male / Female)				
Country or area	1950-5	55 202	LO-15	1950-2015	1950-55	2010-15	1950-55	2010-15	195	0-55	2010-15	1950-2015
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9	9)	(10)	(11)
OCEANIA	65	51	870	• • •	614	849	690	891	\bigcirc	0.89	0.95	
Australia/New Zealand	79	95	931		757	915	835	948		0.91 (0.97	
Australia ²⁸	79	95 🔵	932		755	916	837	949		0.90 (0.97	
New Zealand	80	00 🔵	928	• • • •	770	913	830	942		0.93 (0.97	
Melanesia	25	59 🔵	696	• • •	240	660	281	734		0.85 (0.90	$ \frown $
Fiji	56	54 🔵	787	•	530	740	606	838		0.87 (0.88	
New Caledonia	50	70	896	•	485	870	535	923		0.91 (0.94	~
Papua New Guinea	22	15 🔘	667	• • • •	197	631	235	705		0.84 (0.90	~
Solomon Islands	42	28	772	• • •	416	751	452	795		0.92 (0.94	
Vanuatu	37	79 🔵	835	• • •	353	808	409	863		0.86 (0.94	
Micronesia ²⁹	55	51	844		529	819	578	871		0.92 (0.94	
Guam	60)2 🔵	920	• • • •	574	902	649	939		0.88 (0.96	•
Kiribati	44	14 🔵	742	• • • •	405	691	484	793		0.84	0.87	
Micronesia (Fed. States of)	56	56 🔘	794	• • • •	554	781	580	807		0.96 (0.97	
Polynesia ³⁰	46	51 🔵	862	•	427	832	500	894		0.85	0.93	
French Polynesia	43	38	883	•	423	856	456	913		0.93 (0.94	~~~
Samoa	38	31	844	• • • •	326	811	449	880		0.73 (0.92	• • • •
Tonga	60)2	839	•	597	807	605	871		0.99 (0.93	• • • • •
Legend:	<u>Colum</u>	ns 2 ar	nd 3:		<u>Columns</u>	4 and 11:			<u>Colu</u>	imns 9) and 10:	
	colore	d circle	25		colored d	lot on time	e trend		colored circles			
	< 400 = red					value = b	lue dot		< 25 percentile = black			
	400-59	9 = lig	ht rec	ł	maximun	n value = r	ed dot		25-4	19 per	centile =	gray
	600-79	9 = lig	ht gra	iy					50-7	'5 per	centile =	light red
	800+ =	black							75+	perce	ntile = re	d
	cell color shading by survival level											

cell color shading by surviva green = high red = low

(*) Source: United Nations, Department of Economic and Social Affairs, Population Division (2015). *World Population Prospects: The 2015 Revision, DVD Edition*. Accessed on 12 Dec. 2015 at: http://esa.un.org/unpd/wpp/DVD/

Note: Probability of surviving between birth and age 60 (60p0) is computed as the complement to the probability of dying between birth and the age of 60 years (60q0) per 1,000 live births. In this case, 60p0 = 1000 - 60q0.

File MORT/9-1: Probability of dying between birth and the age of 60 years (both sexes combined) by major area, region and country, 1950-210(POP/DB/WPP/Rev.2015/MORT/F09-1 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL FILES/3 Mortality/WPP2015 MORT F09 1 Q0060 BOTH SEXES.XLS

File MORT/9-2: Male probability of dying between birth and the age of 60 years by major area, region and country, 1950-210(POP/DB/WPP/Rev.2015/MORT/F09-2 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1_Indicators%20(Standard)/EXCEL_FILES/3_Mortality/WPP2015_MORT_F09_2_Q0060_MALE.XLS

File MORT/9-3: Female probability of dying between birth and the age of 60 years by major area, region and country, 1950-210(POP/DB/WPP/Rev.2015/MORT/F09-3 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL FILES/3 Mortality/WPP2015 MORT F09 3 Q0060 FEMALE.XLS

	Both sexes					Female		Absolute difference, years (female - male)			
Country or area	1950-55 2010-15 1950-2015			1950-55	2010-15	1950-55	2010-15	1950-55	1950-2015		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
WORLD	14.0	20.2		13.0	18.7	15.0	21.5	2.0	2.8		
More developed regions ^a	16.8	22.8	-	15.5	20.8	18.0	24.6	25	- 38		
Less developed regions ^b	12.0	18.0		11 5	17.8	12.0	24.0	1 5	2 2 2		
Less developed regions	12.2	10.9		11.5	17.0	12.9	20.0	1.5	2.2		
	12.0	17.3	•	11.6	16.7	12.4	17.8	0.8	1.2		
Other less developed countries	12.2	19.1	•	11.4	17.9	13.0	20.2	1.5	2.3		
Less developed regions, excluding China	13.2	18.6	•	12.6	17.4	13.7	19.6	1.2	2.2		
High-income countries	16.8	23.2	•	15.4	21.2	18.0	25.0	2.6	3.9		
Middle-income countries ^e	12.4	18.8	•	11.6	17.7	13.1	19.9	1.6	2.2		
Upper-middle-income countries ^e	11.8	19.8	+	10.9	18.5	12.7	21.1	1.8	2.5		
Lower-middle-income countries ^e	13.1	17.6		12.5	16.7	13.7	18.6	1.2	1.9		
Low-income countries ^e	12.0	16.9		11.4	16.0	12.6	17.7	1.2	1.7		
Sub-Saharan Africa ^f	12.0	16.1		11.5	15.4	12.5	16.8	1.0	1.4		
AFRICA	12.5	16.7		12.0	15.9	13.0	17.4	1.0	1.5		
Eastern Africa	12.8	17.7		12.2	16.9	13.2	18.3	1.0	1.4		
Burundi	13.2	16.4		12.6	15.8	13.7	17.1	1.1	1.3		
Comoros	12.6	16.2	••	12.0	15.3	13.2	17.0	1.2	1.7		
Djibouti	13.6	17.5	•	13.1	16.9	14.1	18.1	1.0	1.2	••	
Eritrea	10.7	15.4	••	9.5	13.7	11.9	16.9	2.4	3.3		
Ethiopia	12.2	17.8	++	11.7	17.1	12.6	18.4	0.9	1.3	++	
Kenya	13.9	17.8	++	13.3	17.1	14.4	18.4	1.2	1.4		
Madagascar	12.7	16.9	• • • • • • • • • • • • • • • • • • • •	12.4	16.2	12.9	17.5	0.5	1.3		
Malawi	12.5	18.8	• • • • •	12.2	17.6	12.7	19.9	0.5	2.3	• • • •	
Mauritius ¹	12.6	20.2		11.1	18.0	14.1	22.1	2.9	4.1	~~	
Mayotte	13.9	23.3	••	12.0	21.4	16.4	25.4	4.4	4.0	••	
Mozambique	11.6	17.0	• • • • •	11.2	16.2	12.0	17.6	0.9	1.4	++	
Réunion	14.7	23.5	• • • •	12.0	21.4	16.4	25.4	4.4	4.0	`	
Rwanda	13.4	17.9		12.8	17.1	13.9	18.5	1.1	1.3		
Seychelles	14.6	9.4	•	13.7	16.9	15.4	21.9	1.6	5.0		
Somalia	12.2	16.1	•	11.7	15.5	12.6	16.6	1.0	1.1		
South Sudan	10.8	16.4	•	10.4	15.9	11.3	16.9	0.9	1.0		
Uganda	13.4	17.3	•	12.8	16.6	13.9	17.9	1.1	1.3		
United Republic of Tanzania ²	13.7	18.5	•	13.1	17.8	14.2	19.1	1.1	1.3		
Zambia	13.8	17.7	+	13.3	17.0	14.3	18.4	1.0	1.4		
Zimbabwe	15.0	17.5		14.4	16.8	15.6	18.2	1.1	1.4		
Middle Africa	12.8	16.4	•	12.2	15.8	13.3	17.0	1.1	1.1		
Angola	11.4	15.7	•	10.8	15.1	11.8	16.3	1.0	1.2		
Cameroon	13.1	16.4	•	12.6	15.8	13.6	17.0	1.0	1.2		
Central African Republic	12.1	15.8		11.6	15.0	12.5	16.5	1.0	1.5		
Chad	12.6	15.7	•	11.8	15.2	13.4	16.2	1.5	1.0		
Congo	14.0	17.9		13.6	17.2	14.4	18.5	0.8	1.3		
Democratic Republic of the Congo	13.2	16.6	+	12.7	16.0	13.7	17.1	1.0	1.1		
Equatorial Guinea	12.3	16.8	•	11.8	16.3	12.7	17.5	1.0	1.2		
Gabon	12.8	18.3	•	12.3	17.7	13.3	18.9	1.0	1.2		
Sao Tome and Principe	14.7	18.2		14.2	17.5	15.2	18.8	1.0	1.3	~	
Algoria	14.5	21.6		12.7	20.0	14.0	19.5	1.0	1.9	-	
niger la Favint	15.0	21.0		17.2	20.9 16.0	14.U 17 /	22.3 18 /	0.8	1.4		
Lipva	12 2	12.3		12.0	16.9	17.4 17.4	10.4 10.6	2.0 0.2	2.3		
Morocco	1/10	10.2	-	12.2	18 5	14 11 G	10.7	1 2	2.0		
Sudan	14.0	19.1	•	13.4 13.8	17.2	14.0 14.8	18 3	1.2	1.2		
Tunisia	12.7	19 5		12.6	17.2	12.9	21.2	0.3			
Western Sahara	12.0	16.9		11.4	16.1	12.7	18.0	1.2	1.9		
			-							-	

								Absolute difference, years			
	Both sexe	es		Male		Female		(female -	male)		
Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	2010-15	1950-2015	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Southern Africa	11.8	16.2	++	10.6	13.7	12.7	18.0	2.1	4.3	•	
Botswana	14.2	17.1		13.2	15.9	14.8	18.1	1.6	2.2		
Lesotho	13.3	15.5		12.5	14.5	13.8	16.2	1.3	1.7		
Namibia	13.1	17.3	•	12.3	15.9	13.9	18.4	1.6	2.5		
South Africa	11.5	16.1	•	10.4	13.5	12.6	18.1	2.2	4.6	•	
Swaziland	13.1	16.3	+	12.3	15.3	13.8	17.2	1.5	1.9		
Western Africa ³	11.2	14.4		10.9	14.1	11.5	14.7	0.6	0.7	\sim	
Benin	11.3	15.6	•	11.6	15.0	11.1	16.1	-0.5	1.2		
Burkina Faso	10.6	15.1	+	10.3	14.7	11.1	15.4	0.9	0.8		
Cabo Verde	14.2	18.6	•	13.4	17.3	14.7	19.7	1.3	2.4	• • • • •	
Côte d'Ivoire	12.8	14.1		12.4	13.8	13.2	14.4	0.8	0.6		
Gambia	10.4	15.2	•	10.1	14.7	10.7	15.9	0.5	1.2		
Ghana	12.7	15.5		12.4	15.0	12.9	16.0	0.4	1.0		
Guinea	10.9	15.0		10.7	14.7	11.2	15.3	0.5	0.6		
Guinea-Bissau	11.9	15.0	•	11.5	14.5	12.2	15.5	0.7	1.0		
Liberia	10.7	15.4	•	10.2	14.8	11.3	15.8	1.1	1.0	~~~	
Mali	9.9	15.2	•	9.6	15.1	10.1	15.3	0.5	0.2		
Mauritania	12.0	16.5	•	11.8	15.8	12.1	17.0	0.3	1.3		
Niger	11.3	16.0	•	11.2	15.5	11.4	16.5	0.1	1.0		
Nigeria	11.2	13.7		10.8	13.4	11.5	13.9	0.6	0.5		
Senegal	11.4	16.6	•	11.2	15.7	11.6	17.4	0.4	1.7		
Sierra Leone	10.6	13.0		10.7	13.0	10.5	13.1	-0.2	0.1		
Тодо	11.4	15.1		11.1	14.7	11.6	15.4	0.5	0.8		
ASIA	12.1	19.4	•	11.3	18.1	12.9	20.6	1.6	2.5		
	11.4	20.6	+	10.4	19.1	12.4	22.1	2.0	3.0		
China '	10.8	19.4		9.8	18.3	11.7	20.6	1.8	2.3	\sim	
China, Hong Kong SAR	16.2	25.8	•	12.6	23.4	18.3	28.2	5.7	4.7	·	
China, Macao SAR ⁶	15.8	22.9	•	14.8	21.3	16.3	24.4	1.5	3.0		
Dem. People's Republic of Korea	15.4	23.3	•	14.5	21.7	16.0	24.9	1.5	3.3		
Japan	11.2	16.8		9.3	13.7	13.0	19.3	3.7	5.6		
Mongolia	15.7	25.8	•	14.4	23.0	16.9	28.4	2.5	5.4		
Republic of Korea	13.0	18.0		12.5	16.0	13.4	19.8	0.9	3.8		
Other non-specified areas	14.4	24.3		13.4	21.5	15.1	26.5	1.7	5.0		
South-Central Asia ⁷	12.5	17.9		12.0	17.2	12.9	18.6	0.9	1.4		
Central Asia	15.3	17.7		13.5	15.6	17.4	19.6	3.9	4.0		
Kazakhstan	14.8	17.1		12.6	14.4	17.4	19.2	4.9	4.8		
Kyrgyzstan	14.9	17.7		13.1	15.5	17.1	19.6	4.0	4.1	$\sim \sim \sim$	
Tajikistan	16.2	18.3	\sim	14.8	16.2	17.9	20.8	3.1	4.6		
Turkmenistan	14.5	17.0		13.0	15.0	16.3	18.8	3.3	3.8		
Uzbekistan	16.0	18.3		14.6	16.6	17.6	19.8	2.9	3.3		
Southern Asia	12.3	17.9	•	12.0	17.2	12.7	18.5	0.7	1.3		
Afghanistan	10.7	15.7	•	10.4	14.9	11.2	16.5	0.8	1.5		
Bangladesh	11.6	18.7	•	11.8	18.2	11.4	19.1	-0.3	0.9		
Bhutan	11.0	20.2		10.5	20.2	11.4	20.1	0.8	-0.1		
ingia	12.1	17.7	•	11.7	17.0	12.4	18.4	0.7	1.4		
Iran (Islamic Republic Of)	12.8	19.4	•	12.5	19.1	13.1	19.7	0.6	0.6	×	
IVIAIDIVES	11.6	19.5	•	11./	19.0	11.6	20.1	-0.0			
Nepal		17.3	•	11.4	16.4	12.1	18.1	0.7	1.7		
		1/.8		14.1	1/.5	10.3	18.0	2.2	0.4	~ ~	
STILATIKA	14.5	20.4		13.4	19.1	10.0	21.b	- 3.2	2.5		

								Absolute difference, years			
	Both sexe	S		Male		Female		(female	- male)		
Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	2010-15	1950-2015	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
South-Eastern Asia	14.0	18.4	••	13.2	16.8	14.8	19.9	1.6	3.1		
Brunei Darussalam	15.3	21.4	••	14.5	20.1	16.1	22.7	1.6	5 2.6		
Cambodia	12.2	17.1		11.0	16.3	13.3	17.7	2.3	1.4		
Indonesia	13.3	16.5	••	13.0	15.2	13.6	17.8	0.5	2.5		
Lao People's Democratic Republic	12.9	16.6	••	12.2	15.8	13.7	17.4	1.4	1.6		
Malaysia ⁸	14.4	19.3		14.3	18.4	14.5	20.1	0.2	. 1.7		
Myanmar	12.2	16.7		11.3	15.7	13.1	17.5	1.8	3 1.9		
Philippines	15.3	16.8		14.4	15.1	16.0	18.3	1.5	3.2	•	
Singapore	14.5	25.1		12.2	22.5	16.5	27.5	4.3	5.0		
Thailand	16.9	21.4		15.2	20.0	18.5	22.6	3.3	2.6	m	
Timor-Leste	11.1	16.9		10.7	16.1	11.4	17.7	0.7	. 1.6		
Viet Nam	15.1	22.3		13.3	19.3	16.9	24.8	3.6	5.5	1	
Western Asia	14.3	19.8		13.5	18.0	14.9	21.5	1.5	3.5		
Armenia	16.5	19.6		15.1	17.0	17.8	21.9	2.7	4.9		
Azerbaijan ⁹	16.4	18.2	\checkmark	15.0	16.4	17.8	19.9	2.8	3.5	~	
Bahrain	13.6	19.4		12.8	18.9	14.5	20.0	1.7	1.1	+	
Cyprus ¹⁰	17.6	221	-	16.7	20.0	195	22.0	1 9	2 2 2 2	-	
	17.0	22.1		14.0	20.4	10.5	23.0				
Georgia	15.2	19.8		14.0	17.5	16.4	21.6	2.4	4.1	-	
Iraq	13.1	17.5		12.6	16.2	13.5	18.6	0.9	2.4		
Israel	17.2	24.6	•	16.5	23.2	17.9	25.7	1.4	2.5	•	
Jordan		19.0	•	13.7	17.8	15.1	20.2	1.5	2.4		
Kuwait	15.1			14.8	17.4	15.5	18.1	0.6			
Lebanon	15.8	22.0	••	15.0	20.4	10.0	23.8	1.7	3.4		
Oman	12.6	20.6	•	12.3	19.3	12.9	22.0	0.6		•	
Qatar Galadi Alashia	15.8	21.0	+	14.8	20.5	16.8	21.9	2.0	1.4	*	
Saudi Arabia	14.1	18.5	•	13.3	17.4	14.9	19.7	1.6	2.2		
State of Palestine	13.8	18.5		13.1	17.2	14.7	19.7	1.6	2.5		
Syrian Arab Republic	14.5	18.7	•	14.3	16.8	14.7	20.9	0.4	4.2		
Turkey	13.3	20.8	•	12.5	18.6	13.9	22.7	1.4	4.1		
United Arab Emirates	13.9	19.8	•	12.9	19.5	14.8	20.6	1.9	1.1		
Yemen	12.8	16.2		12.2	15.4	13.4	17.1	1.2	1./	***	
	16.8	21.9	• • •	15.5	19.8	17.8	23.8	2.4			
Eastern Europe	16.5	19.0		14.9	16.2	17.6	21.2	2.7	5.0		
Belarus	16.9	18.1		15.6	14.5	17.7	20.9	2.1	. 6.4		
Bulgaria	17.4	19.2		16.8	17.0	18.0	21.2		4.2		
	15.9	21.5		14.7	19.3	17.0	23.4	2.3			
Huligary	16.0	20.1		14.2	10.7	10.8	22.1	1.0	4.5 4.5	•	
	15.5	21.5		14.2	18.7	10.0	23.9	2.4	5.1	· · ·	
Republic of Moldova	14.2	17.3		12.5	14.8	15.4	19.5	2.9	4.7	~	
Romania	15.8	19.8		14.9	17.6	16.5	21.6	1.6			
Russian Federation	16.9	18.3	\sim	14.6	15.2	18.2	20.7	3.6	5.5		
	16.7	20.3	· · · · ·	16.0	17.7	17.2	22.4	1.2	4./	+	
Ukraine T	17.0	18.1		15.7	15.2	17.7	20.2	2.0	5.0		
Northern Europe	17.0	23.3	•	15.4	21.7	18.3	24.8	2.9	3.1		
Channel Islands ¹⁶	17.5	23.2	•	16.2	21.3	18.5	24.9	2.3	3.6		
Denmark	17.8	22.8	•	17.3	21.3	18.2	24.2	0.9	3.0		
Estonia	17.2	21.3		14.9	17.9	18.6	23.9	3.7	6.0	•	
Finland ¹⁷	15.6	23.7	• • • •	14.0	21.6	16.9	25.6	2.9	4.0		
Iceland	9.5	24.5		18.4	23.4	20.4	25.5	2.0	2.1		
Ireland	16.4	23.4		15.6	21.7	17.2	24.9	1.5	3.2		
Latvia	17.8	9.8		15.8	16.4	19.1	22.2	3.2	. 🔵 5.8		
Lithuania	18.5	19.2	$\frown \checkmark \checkmark$	17.0	15.4	19.6	22.3	2.6	6.9	•	

								Absolute difference, years			
	Both sex	es		Male		Female		(female -	male)		
Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-55	2010-15	1950-2015	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
Norway ¹⁸	9.2	23.9		18.5	22.2	19.9	25.4	1.4	3.2	-	
Sweden	17.9	24.3		17.3	22.8	18.4	25.6	1.1	2.8		
United Kingdom	16.7	23.5		14.9	22.1	18.3	24.9	3.4	2.8		
Southern Europe ¹⁹	16.7	24.0		15.7	21.8	17.6	25.9	1.9	4.1	-	
Albania	17.5	21.2		17.0	19.2	17.9	23.3	0.8	4.1		
Bosnia and Herzegovina	13.9	20.2		13.5	18.5	14.2	21.8	0.7	3.3		
Croatia	14.4	20.6		13.2	18.2	15.4	22.7	2.2	4.6	-	
Greece	16.4	23.6		15.1	21.5	17.5	25.6	2.4	4.1		
Italy	17.2	25.1	••	16.4	23.0	17.9	27.0	1.6	4.0		
Malta	15.1	22.8	++	14.2	21.5	15.9	23.9	1.7	2.4	•	
Montenegro	15.5	19.8		14.7	18.4	16.1	21.1	1.4	2.7	\sim	
Portugal	16.9	23.7	••	15.4	21.5	18.1	25.6	2.7	4.1		
Serbia ²⁰	15.3	19.1		14.6	17.3	15.9	20.8	1.3	3.5		
Slovenia	15.4	23.1	••	14.0	20.6	16.7	25.2	2.7	4.6		
Spain ²¹	16.9	24.8		15.6	22.5	18.1	26.9	2.5	4.4		
TEYR Macedonia ²²	14.5	19.1		14.3	17.7	14.7	20.4	0.4	2.8		
Western Europe ²³	16.0	24.1	-	15.9	22.1	17.0	25.0	21	2.0	-	
Austria	16.5	24.1		15.0	22.1	17.5	25.6	2.1	3.0		
Relgium	16.9	23.0	•	15.2	21.0	17.0	25.0	2.4	3.7	-	
France	17.0	25.7	•	15.0	21.7	17.9	23.4	2.3			
Germany	16.8	23.2	-	16.0	21.5	17.5	25.2	15	3.6	-	
Luxembourg	15.9	23.9		14.8	21.0	17.0	25.6	2.5	3.0		
Netherlands	18.3	23.5	-	17.7	22.0	18.8	25.0	10	3.0		
Switzerland	17.0	25.0		15.8	23.2	18.1	26.6	2.3	3.4		
LATIN AMERICA AND THE CARIBBEAN	15.1	21.8		14.4	20.1	15.8	23.3	1.4	3.3		
Caribbean ²⁴	15.6	21.8		15.2	20.3	15.9	23.3	0.8	3.0		
Antigua and Barbuda	15.1	21.5		12.8	20.0	17.0	22.8	4.2	2.8	+	
Aruba	15.9	19.9		15.0	18.0	16.6	21.6	1.5	3.6		
Bahamas	15.8	22.3		14.9	20.4	16.5	23.8	1.6	3.4		
Barbados	15.6	19.5	•	14.4	17.8	16.2	21.1	1.8	3.4		
Cuba	16.0	23.1		15.7	21.7	16.4	24.5	0.7	2.8		
Curaçao	16.4	22.6		16.0	20.9	16.7	24.0	0.7	3.2	+	
Dominican Republic	14.3	21.7	••	13.8	20.4	15.0	23.1	1.1	2.8		
Grenada	14.8	18.8	••	13.5	17.5	15.6	19.9	2.1	2.4		
Guadeloupe ²⁵	14.5	24.5		13.0	22.2	15.6	26.6	2.6	4.4		
Haiti	13.8	17.8		13.7	16.9	13.9	18.7	0.3	1.8		
Jamaica	16.7	22.2		16.1	21.0	17.1	23.4	1.0	2.4		
Martinique	13.8	24.7	••	12.9	22.4	14.4	26.8	1.5	4.4	••	
Puerto Rico	17.6	23.6		17.2	21.1	18.1	25.9	0.9	4.8	••	
Saint Lucia	17.0	21.1		14.3	19.2	19.4	22.9	5.1	3.7	*	
Saint Vincent and the Grenadines	14.6	19.9	~	13.7	18.9	15.1	20.8	1.4	1.9	\sim	
Trinidad and Tobago	14.4	18.2	•	14.2	16.1	14.6	20.2	0.5	4.1		
United States Virgin Islands	14.2	23.2	••	12.7	20.4	15.5	25.9	2.8	5.5		
Central America	15.1	22.6	•	14.6	21.5	15.7	23.6	1.1	2.1		
Belize	15.4	17.0		14.9	15.8	15.8	18.4	1.0	2.6	++	
Costa Rica	15.4	23.6	•	14.9	22.2	15.9	25.0	1.0	2.8		
El Salvador	13.0	21.5	•	11.5	20.1	14.7	22.6	3.2	2.5	\$	
Guatemala	14.3	21.3	• • • •	14.1	20.3	14.5	22.3	0.4	2.1		
Honduras	13.6	22.1	•	13.3	20.7	13.9	23.4	0.6	2.7	•	
Mexico	15.6	22.7	•	15.1	21.6	16.1	23.7	1.0	2.0		
Nicaragua	13.2	22.3	•	12.5	21.0	13.9	23.4	1.4	2.4		
Panama	15.8	23.9	++	15.4	22.5	16.4	25.3	1.0	2.8		

	Both sexes			Male Female					Absolute difference, years (female - male)			
Country or area	1950-5	5 2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950)-55	2010-15	1950-2015	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9))	(10)	(11)	
South America ²⁶	15	.1 🔵 21.5		14.2	19.6	15.9	23.2		1.6	3.7		
Argentina	16	.3 🛑 21.4		15.0	18.6	17.9	23.8		2.9	5.3	•	
Bolivia (Plurinational State of)	12	.7 🛑 21.1		12.4	20.0	12.9	22.2		0.5	2.1		
Brazil	14	.9 🛑 21.3		14.1	19.4	15.6	23.0		1.5	3.5	i	
Chile	16	.2 🛑 25.2		14.9	23.1	17.5	26.9		2.6	3.8	i	
Colombia	14	.7 🛑 21.4	•	14.1	20.1	15.2	22.5		1.1	2.4		
Ecuador	14	.7 🛑 22.9		14.0	21.7	15.3	23.9		1.3	2.2		
French Guiana	14	.8 🛑 22.2		13.8	19.5	15.8	25.0		2.0	5.5	i ••	
Guyana	16	.0 🔵 16.0	•	14.9	15.4	17.0	16.6		2.0	1.2	\sim	
Paraguay	16	.8 🛑 21.0	••	15.8	20.0	17.7	22.2		1.9	2.2		
Peru	13	.8 🛑 21.2	•	13.3	19.8	14.2	22.7		0.9	2.9	••	
Suriname	15	.1 🔵 18.5		14.5	16.7	15.7	20.1		1.1	3.4	•	
Uruguay	16	.9 🛑 22.0	•	15.3	19.0	18.8	24.5		3.6	5.5	i 🛶 🔶	
Venezuela (Bolivarian Republic of)	15	.3 🔵 20.6		14.8	18.6	15.9	22.6		1.0	4.1		
NORTHERN AMERICA 27	0 17	.4 🔵 23.5	•	15.9	21.9	19.0	24.9		3.1	3.0		
Canada	17	.8 🔵 24.7	•	16.7	23.1	19.0	26.2		2.4	3.1		
United States of America	17	.4 🛑 23.3	•	15.9	21.8	19.0	24.7		3.1	3.0		

Life expectancy at age 60 (years)*

								Absolut	e difference	e, years		
	Both sexes			Male		Female		(female				
Country or area	1950-55	2010-15	1950-2015	1950-55	2010-15	1950-55	2010-15	1950-5	5 2010-15	1950-2015		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
OCEANIA	16.3	23.7	••	14.8	22.1	18.0	25.2	3.	2 🔵 3.1			
Australia/New Zealand	17.2	24.8	••	15.6	23.3	18.8	26.4	3.	2 🦳 3.1			
Australia ²⁸	17.1	24.9	++	15.4	23.3	18.7	26.5	3.	3 🔴 3.2			
New Zealand	17.5	24.5	••	16.3	23.2	18.9	25.8	2.	6 🔵 2.6			
Melanesia	10.5	15.7	•	9.8	14.1	11.5	17.3	1.	7 🔵 3.1			
Fiji	12.4	17.0	••	12.1	15.3	12.9	18.8	0.	8 🛑 3.5			
New Caledonia	14.4	20.3	••	13.7	18.3	15.2	22.7	1.	4 🔴 4.3	•		
Papua New Guinea	10.0	14.9	•	9.1	13.3	11.0	16.5	1.	9 🛑 3.3			
Solomon Islands	13.4	16.9	•	13.1	16.1	14.3	17.8	1.	2 🔵 1.7			
Vanuatu	13.1	18.0	••	12.5	16.9	13.8	19.2	1.	3 🔵 2.3			
Micronesia ²⁹	14.7	19.7		14.0	18.2	15.5	21.3	1.	5 🔵 3.1			
Guam	15.4	22.0		14.5	19.8	16.3	24.2	1.	8 🛑 4.4			
Kiribati	13.9	16.8	•	13.0	15.5	14.7	17.8	1.	6 🔵 2.3	••		
Micronesia (Fed. States of)	14.9	17.3	•	14.3	16.5	15.6	18.0	1.	3 🔵 1.5			
Polynesia ³⁰	12.7	19.5	++	11.7	17.6	13.8	21.5	2.	1 🔵 3.8			
French Polynesia	12.7	20.2	++	12.6	18.9	12.9	21.7	• 0.	3 🔵 2.8			
Samoa	11.5	18.9	••	10.2	16.4	13.2	21.4	3.	0 🛑 5.0	•		
Tonga	14.0	18.6	• • •	12.8	16.2	15.0	21.0	2.	2 4.7	• • • •		
Legend:	<u>Columns</u>	2 and 3:		<u>Columns 4</u>	and 11:			<u>Column</u>	<u>s 9 and 10:</u>			
	colored ci	ircles		colored do	ot on time t	rend		colored	circles			
	< 15 = bla	ck		minimum	value = blu	e dot		< 25 per	centile = bla	ick		
	15-17 = g	ray		maximum value = red dot				25-49 percentile = gray				
	18-20 = lig	ght red						50-75 p	ercentile = li	ght red		
	21+ = red							75+ percentile = red				

(*) Source: United Nations, Department of Economic and Social Affairs, Population Division (2015). *World Population Prospects: The 2015 Revision, DVD Edition*. Accessed on 12 Nov. 2015 at: http://esa.un.org/unpd/wpp/DVD/

File MORT/13-1: Life expectancy at age 60 (both sexes combined) by major area, region and country, 1950-2100 (years POP/DB/WPP/Rev.2015/MORT/F13-1 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1 Indicators%20(Standard)/EXCEL_FILES/3_Mortality/WPP2015_MORT_F13_1_LIFE_EXPECTANCY_60_BOTH_SEXES.XLS

File MORT/13-2: Male life expectancy at age 60 by major area, region and country, 1950-2100 (years) POP/DB/WPP/Rev.2015/MORT/F13-2 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1_Indicators%20(Standard)/EXCEL_FILES/3_Mortality/WPP2015_MORT_F13_2_LIFE_EXPECTANCY_60_MALE.XLS

File MORT/13-3: Female life expectancy at age 60 by major area, region and country, 1950-2100 (years) POP/DB/WPP/Rev.2015/MORT/F13-3 > Estimates, 1950 - 2015 http://esa.un.org/unpd/wpp/DVD/Files/1_Indicators%20(Standard)/EXCEL_FILES/3_Mortality/WPP2015_MORT_F13_3_LIFE_EXPECTANCY_60_FEMALE.XLS

Notes

(*) * Countries or areas listed individually are only those with 90,000 inhabitants or more in 2015; the rest are included in the aggregates but are not listed separately. (a) More developed regions comprise Europe, Northern America, Australia/New Zealand and Japan. (b) Less developed regions comprise all regions of Africa, Asia (except Japan), Latin America and the Caribbean plus Melanesia, Micronesia and Polynesia. (c) The group of least developed countries, as defined by the United Nations General Assembly in its resolutions (59/209, 59/210, 60/33, 62/97, 64/L.55, 67/L.43, 64/295) included 48 countries in January 2014: 34 in Africa, 9 in Asia, 4 in Oceania and one in Latin America and the Caribbean. (d) Other less developed countries comprise the less developed regions excluding the least developed countries. (e) The country classification by income level is based on 2014 GNI per capita from the World Bank. (f) Sub-Saharan Africa refers to all of Africa except Northern Africa. (1) Including Agalega, Rodrigues and Saint Brandon. (2) Including Zanzibar. (3) Including Saint Helena, Ascension, and Tristan da Cunha. (4) For statistical purposes, the data for China do not include Hong Kong and Macao, Special Administrative Regions (SAR) of China, and Taiwan Province of China. (5) As of 1 July 1997, Hong Kong became a Special Administrative Region (SAR) of China. (6) As of 20 December 1999, Macao became a Special Administrative Region (SAR) of China. (7) The regions Southern Asia and Central Asia are combined into South-Central Asia. (8) Including Sabah and Sarawak. (9) Including Nagorno-Karabakh. (10) Refers to the whole country (11) Including Abkhazia and South Ossetia. (12) Including East Jerusalem. (13) Including Transnistria. (14) Including Crimea (15) Including Faeroe Islands, and Isle of Man. (16) Refers to Guernsey, and Jersey. (17) Including Åland Islands. (18) Including Svalbard and Jan Mayen Islands. (19) Including Andorra, Gibraltar, Holy See, and San Marino. (20) Including Kosovo. (21) Including Canary Islands, Ceuta and Melilla. (22) The former Yugoslav Republic of Macedonia. (23) Including Liechtenstein, and Monaco. (24) Including Anguilla, British Virgin Islands, Caribbean Netherlands, Cayman Islands, Dominica, Montserrat, Saint Kitts and Nevis, Sint Maarten (Dutch part) and Turks and Caicos Islands. (25) Including Saint-Barthélemy and Saint-Martin (French part).

- (26) Including Falkland Islands (Malvinas).
- (27) Including Bermuda, Greenland, and Saint Pierre and Miguelon.
- (28) Including Christmas Island, Cocos (Keeling) Islands and Norfolk Island.
- (29) Including Marshall Islands, Nauru, Northern Mariana Islands, and Palau.
- (30) Including American Samoa, Cook Islands, Niue, Pitcairn, Tokelau, Tuvalu, and Wallis and Futuna Islands.

