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HMD

Human Mortality Database

www.mortality.org

10 years of work for the international scientific community

A joint project of

Department of Demography
at the University
of California

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Background

In May 2012, the Human Mortality Database (HMD) celebrates its 10th anniversary. Over the past decade, the HMD has become a very popular data source for use in demographic analysis. More than 20,000 users worldwide have registered on the HMD website.
The HMD was created to provide detailed mortality and population data to researchers, students, journalists, policy analysts, and others interested in the history of human longevity. The project began as an outgrowth of earlier projects in the Department of Demography at the University of California, Berkeley, USA (UCB), and at the Max Planck Institute for Demographic Research in Rostock, Germany (MPIDR).

We have followed four guiding principles in constructing this database: *comparability, flexibility, accessibility, and reproducibility.*

Types of data

The HMD contains data for (mostly) national populations, including:

- Population exposures and death counts at the finest detail available
- Original calculations of death rates and life tables, in a variety of formats

These indicators are computed on the basis of raw (input) data by means of a uniform set of methods. The input data consist of:

- Death counts from vital statistics
- Census counts
- Birth counts
- Population estimates from various sources

The HMD website

Example of country data page

U.S.A.

Background and documentation
Data sources
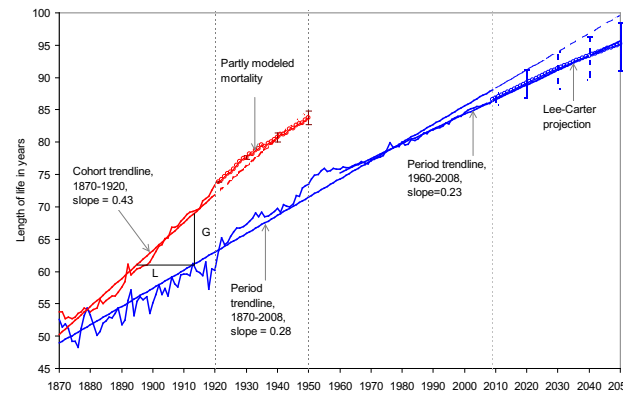
Complete Data Series [Explanatory notes]

	Available dates	Age interval × Year interval					
		1x1	1x5	1x10	5x1	5x5	5x10
Period data							
Births	1933 - 2007	1-year					
Deaths	1933 - 2007	1x1	1x5	1x10	5x1	5x5	5x10
Deaths by Lexis triangles	1933 - 2007	Lexis					
Population size	1933 - 2008	1-year			5-year		
Exposure-to-risk	1933 - 2007	1x1	1x5	1x10	5x1	5x5	5x10
Death rates	1933 - 2007	1x1	1x5	1x10	5x1	5x5	5x10
Life tables	1933 - 2007						
Females		1x1	1x5	1x10	5x1	5x5	5x10
Males		1x1	1x5	1x10	5x1	5x5	5x10
Total (both sexes)		1x1	1x5	1x10	5x1	5x5	5x10
Life expectancy at birth	1933 - 2007	1-year	5-year	10-year			
Cohort data							
Exposure-to-risk	1833 - 1977	1x1	1x5	1x10	5x1	5x5	5x10
Death rates	1833 - 1977	1x1	1x5	1x10	5x1	5x5	5x10

Input Data [Explanatory notes]

	Available dates	Data	Lexis map
Births	1933 - 2007	txt	
Deaths	1933 - 2007	txt	html
Population size	1933 - 2008	txt	html
Notes		pdf	
Reference file		pdf	

You are welcome to download and analyze all HMD data free of charge.

Trends in world record period and cohort life expectancies since 1870

Source: Population and Developement Review, Vol. 37(3), pp. 419-434.

www.mortality.org

Countries

As of May 2012 the database contains detailed population and mortality data for 37 countries (and some sub-populations):

Country/Area	Period Life Tables	Cohort Life Tables
Australia	1921-2009	-
Austria	1947-2010	-
Belarus	1959-2010	-
Belgium	1841-2009	-
Bulgaria	1947-2009	-
Canada	1921-2007	-
Chile	1992-2005	-
Czech Republic	1950-2009	-
Denmark	1835-2009	1835-1918
Estonia	1959-2009	-
Finland	1878-2009	1878-1918
France	1816-2009	1816-1918
Germany	1990-2009	-
East Germany	1956-2009	-
West Germany	1956-2009	-
Hungary	1950-2009	-
Iceland	1838-2010	1838-1919
Ireland	1950-2009	-
Israel	1983-2009	-
Italy	1872-2008	1872-1917
Japan	1947-2009	-
Latvia	1959-2009	-
Lithuania	1959-2010	-
Luxembourg	1960-2009	-
Netherlands	1850-2009	1850-1918
New Zealand	1948-2008	-
New Zealand, Maori	1948-2008	-
New Zealand, Non-Maori	1901-2008	-
Norway	1846-2009	1846-1918
Poland	1958-2009	-
Portugal	1940-2009	-
Russia	1959-2010	-
Slovakia	1950-2009	-
Slovenia	1983-2009	-
Spain	1908-2009	-
Sweden	1751-2010	1751-1919
Switzerland	1876-2009	1876-1918
Taiwan	1970-2010	-
U.K.	1922-2009	-
U.K., England & Wales	1841-2009	1841-1918
U.K., Scotland	1855-2009	1855-1918
U.K., Northern Ireland	1922-2009	-
U.S.A.	1933-2007	-
Ukraine	1959-2009	-