

Package: wpp2019 (via r-universe)

September 13, 2024

Version 1.1-1

Date 2020-01-30

Title World Population Prospects 2019

Author United Nations Population Division

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Depends R (>= 2.14.2)

Imports data.table

Description Provides data from the United Nation's World Population Prospects 2019.

License file LICENSE

URL <http://population.un.org/wpp>

NeedsCompilation no

Date/Publication 2020-01-31 06:20:04 UTC

Repository <https://hanase.r-universe.dev>

RemoteUrl <https://github.com/cran/wpp2019>

RemoteRef HEAD

RemoteSha a1693cc46274ad5905bd93327e988f91692fb4da

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wpp2019-package

World Population Prospects 2019

Description

Data from the United Nations World Population Prospects 2019, released on June 17, 2019.

Details

Package: wpp2019
Version: 1.1-1
Date: 2020-1-30
License: CC-BY-3.0-IGO
URL: <http://population.un.org/wpp>

The package contains the following datasets:

- [tfr](#), [tfr_supplemental](#), [tfrprojMed](#), [tfrproj80u](#), [tfrproj80l](#), [tfrproj95u](#), [tfrproj95l](#), [tfrprojHigh](#), [tfrprojLow](#): estimates and projections of total fertility rate, including the projected 80% and 95% probability bounds, as well as low and high half child variants.
- [e0F](#), [e0M](#), [e0X_supplemental](#), [e0Xproj](#), [e0Xproj80u](#), [e0Xproj80l](#), [e0Xproj95u](#), [e0Xproj95l](#): sex-specific estimates and projections of life expectancy with X="F" and "M", including the projected 80% and 95% probability bounds.
- [pop](#), [popproj](#), [popproj80u](#), [popproj80l](#), [popproj95u](#), [popproj95l](#), [popprojHigh](#), [popprojLow](#): historical estimates of total population counts, as well as the median, probability bounds and the high and low variants of population projections.
- [popFT](#), [popMT](#), [popFTproj](#), [popMTproj](#): historical estimates and projection medians for sex-specific total population.
- [popF](#), [popM](#), [popXprojMed](#), [popXprojHigh](#), [popXprojLow](#): age- and sex-specific population estimates and projections with X="F" and "M", including the high and low variants.
- [mxF](#), [mxM](#): age- and sex-specific mortality rates
- [migration](#): total net migration
- [sexRatio](#): sex ratio at birth as a ratio of female to male
- [percentASFR](#): distribution of age-specific fertility rates
- [UNlocations](#): location dataset

Note

The package **wppExplorer** offers a shiny user interface to explore these datasets, as well as functions for convenient extraction of information from the data, see function `wpp.indicator()` in **wppExplorer**, or <https://rstudio.stat.washington.edu/shiny/wppExplorer/inst/explore/>.

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2019).

References

World Population Prospects: The 2019 Revision. <http://population.un.org/wpp>.

e0

United Nations Time Series of Life Expectancy

Description

Datasets containing the United Nations time series of the life expectancy (e0) for all countries of the world as available in 2019.

Usage

data(e0F)
data(e0M)

data(e0F_supplemental)
data(e0M_supplemental)

data(e0Fproj)
data(e0Mproj)

data(e0Fproj801)
data(e0Fproj80u)
data(e0Mproj801)
data(e0Mproj80u)

data(e0Fproj951)
data(e0Fproj95u)
data(e0Mproj951)
data(e0Mproj95u)

Format

The datasets contain one record per country or region. They contain the following variables:

country_code Numerical Location Code (3-digit codes following ISO 3166-1 numeric standard)
- see http://en.wikipedia.org/wiki/ISO_3166-1_numeric.

name Name of country or region (following ISO 3166 official short names in English - see <https://www.iso.org/obp/ui/#search/code/> and United Nations Multilingual Terminology Database - see <https://unterm.un.org/unterm>).

1950-1955, 1955-1960, ... Life expectancy in various five-year time intervals (i.e., from 1 July in year t to 1 July in year $t+5$ such as the period 1950-1955 refers to the period 1950.5-1955.5 and the mid of the period is 1953.0). The `e0*proj` datasets start at 2020-2025. The `e0*_supplemental` datasets start at 1750-1755. Missing data have NA values.

Details

Datasets `e0F` and `e0F_supplemental` contain estimates for female historical `e0`; `e0M` and `e0M_supplemental` contain estimates for male historical `e0`. The `*_supplemental` datasets contain a subset of countries for which data prior 1950 are available. Datasets `e0Mproj` and `e0Fproj` contain projections of male and female `e0`, respectively. Datasets `*80l`, `*95l` are the lower bounds of 80 and 95% probability intervals, `*80u`, `*95u` are the corresponding upper bounds.

The historical datasets (`e0F_supplemental` and `e0M_supplemental` for female and male, respectively) for 29 countries or areas cover the period 1750-1950 (including 20 countries with data since at least 1900) and are based on series for 5-year periods from the following sources: (1) University of California at Berkeley (USA), and Max Planck Institute for Demographic Research (Germany). (2012). Human Mortality Database Available at <https://www.mortality.org>. Data downloaded on 9 Jan. 2012; (2) University of California at Berkeley (USA), Max Planck Institute for Demographic Research (Germany), and Institut National d'Etudes Demographiques (France). Human Life-Table Database (2011). Available at <https://www.lifetable.de>. Data downloaded on 29 Dec. 2011; (3) Statistics Finland (2006). Statistical Yearbook of Finland 2006; (4) Hungarian Central Statistical Office (2006). Hungary Demographic Yearbook 2005; (5) Japan Ministry of Internal Affairs and Communication (2012). Historical Statistics of Japan. Available at: www.stat.go.jp/english/data/chouki; (6) Andreev E.M. et al. (1998). Demographic History of Russia 1927-1959. Informatika, Moscow.

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2019).

The pre-1950 datasets were collected by Patrick Gerland.

References

World Population Prospects: The 2019 Revision. <http://population.un.org/wpp>

Examples

```
data(e0M)
head(e0M)

data(e0Fproj)
str(e0Fproj)
```

migration	<i>Dataset on Migration</i>
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Description

Estimates and projections of total net migration.

Usage

```
data(migration)
```

Format

Data frame with one row per country. It contains the following variables:

country_code Numerical Location Code (3-digit codes following ISO 3166-1 numeric standard)
- see http://en.wikipedia.org/wiki/ISO_3166-1_numeric.

name Country name.

1950-1955, 1955-1960, ... Net migration (in thousand) for the specific five-year time period (i.e., from 1 July in year t to 1 July in year t+5 such as the period 1950-1955 refers to the period 1950.5-1955.5 and the mid of the period is 1953.0).

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2019).

References

World Population Prospects: The 2019 Revision. <http://population.un.org/wpp>.

Examples

```
data(migration)  
str(migration)
```

`mx`*Age-specific Mortality Data*

Description

Age-specific data on mortality rates for male (mxM) and female (mxF).

Usage

```
data(mxM)
data(mxF)
```

Format

Data frames with one row per country and age group. They contain the following variables:

`country_code` Numerical Location Code (3-digit codes following ISO 3166-1 numeric standard)
- see http://en.wikipedia.org/wiki/ISO_3166-1_numeric.

`name` Country name.

`age` A character string representing an age interval (given by the starting age of the interval).

1950-1955, 1955-1960, ... `mx` for the given five-year time period (i.e., from 1 July in year t to 1 July in year $t+5$ such as the period 1950-1955 refers to the period 1950.5-1955.5 and the mid of the period is 1953.0).

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2019).

References

World Population Prospects: The 2019 Revision. <http://population.un.org/wpp>

Examples

```
data(mxF)
head(mxF)
```

percentASFR

Datasets on Age-specific Distribution of Fertility Rates

Description

Datasets giving the percentage of fertility rates over ages 15-50.

Usage

```
data(percentASFR)
```

Format

A data frame with one row per country and age group. For each country there are seven age groups. It contains columns `country_code`, `name`, `age` and one column per five-year time interval (i.e., from 1 July in year `t` to 1 July in year `t+5` such as the period 1950-1955 refers to the period 1950.5-1955.5 and the mid of the period is 1953.0).

Source

This dataset is based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2019).

References

World Population Prospects: The 2019 Revision. <http://population.un.org/wpp>.

Examples

```
data(percentASFR)
str(percentASFR)
```

pop

Estimates and Projections of Population Counts

Description

Datasets with historical population estimates and projections.

Usage

```

data(pop)
data(popMT)
data(popFT)
data(popM)
data(popF)

data(popproj)
data(popproj80l)
data(popproj80u)
data(popproj95l)
data(popproj95u)
data(popprojHigh)
data(popprojLow)

data(popMTproj)
data(popFTproj)

data(popMprojMed)
data(popFprojMed)
data(popMprojHigh)
data(popFprojHigh)
data(popMprojLow)
data(popFprojLow)

```

Format

Datasets that start with popM or popF and do not have “T” in their names, are age-specific and are organized as data frames with one row per country and age group. For each country there are 21 age groups. It contains the following variables:

country_code Numerical Location Code (3-digit codes following ISO 3166-1 numeric standard)
- see http://en.wikipedia.org/wiki/ISO_3166-1_numeric.

name Country name.

age A character string representing an age interval. For each country there are 21 values: “0-4”, “5-9”, “10-14”, “15-19”, “20-24”, “25-29”, “30-34”, “35-39”, “40-44”, “45-49”, “50-54”, “55-59”, “60-64”, “65-69”, “70-74”, “75-79”, “80-84”, “85-89”, “90-94”, “95-99”, and “100+” in that order.

1950, 1955, ... Population estimate or projection (in thousand) for the given time.

The remaining datasets, i.e. those that do not have “M” or “F”, or have “T” in their names, contain one row per country.

Details

Dataset pop provides estimates of historical total population counts.

Datasets popMT and popFT provide estimates of total counts of male and female population, respectively.

Datasets popM (popF) contain age-specific estimates of the historical population counts for male (female).

Dataset popproj provides median projection of total population counts, i.e. aggregated over sex and age. Datasets popproj80l, popproj80u, popproj95l, and popproj95u are the lower (l) and upper (u) bounds of the 80 and 95% probability intervals of the total population. Datasets popprojHigh and popprojLow contain the upper and lower variant of total population defined as $\pm 1/2$ child.

Datasets popMTproj and popFTproj provide median projection of total counts of male and female population, respectively.

Datasets popXprojMed, popXprojHigh and popXprojLow contain median, high and low variants of age-specific projections, respectively, with X=M for male and X=F for female.

All values are in thousands.

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2019).

References

World Population Prospects: The 2019 Revision. <http://population.un.org/wpp>.

Examples

```
data(popM)
str(popM)
```

sexRatio

Sex Ratio at Birth

Description

Estimates and projections of the sex ratio at birth derived as the number of male divided by the number of female.

Usage

```
data(sexRatio)
```

Format

A data frame with one record per country. It contains columns `country_code`, `name`, and one column per five-year time interval (i.e., from 1 July in year t to 1 July in year $t+5$ such as the period 1950-1955 refers to the period 1950.5-1955.5 and the mid of the period is 1953.0).

Source

This dataset is based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2019).

References

World Population Prospects: The 2019 Revision. <http://population.un.org/wpp>.

Examples

```
data(sexRatio)
str(sexRatio)
```

tfr

United Nations Time Series of Total Fertility Rate

Description

Datasets containing the United Nations time series of the total fertility rate (TFR) for all countries of the world as available in 2019.

Usage

```
data(tfr)
data(tfr_supplemental)

data(tfrprojMed)
data(tfrproj80l)
data(tfrproj80u)

data(tfrproj95l)
data(tfrproj95u)

data(tfrprojHigh)
data(tfrprojLow)
```

Format

The datasets contain one record per country or region. It contains the following variables:

country_code Numerical Location Code (3-digit codes following ISO 3166-1 numeric standard)
- see http://en.wikipedia.org/wiki/ISO_3166-1_numeric.

name Name of country or region (following ISO 3166 official short names in English - see <https://www.iso.org/obp/ui/#search/code/> and United Nations Multilingual Terminology Database - see <https://unterm.un.org/unterm>).

1950-1955, 1955-1960, ... TFR in various five-year time intervals (i.e., from 1 July in year t to 1 July in year t+5 such as the period 1950-1955 refers to the period 1950.5-1955.5 and the mid of the period is 1953.0). The tfrproj* datasets start at 2020-2025. The tfr_supplemental datasets start at 1740-1745. Missing data have NA values.

Details

Dataset `tfr` contains estimates of the historical TFR starting at 1950; `tfr_supplemental` contains a subset of countries for which data prior 1950 are available. Datasets `tfrprojMed` contain the median projections. Datasets `tfrproj80l`, `tfrproj80u`, `tfrproj95l`, and `tfrproj95u` are the lower (l) and upper (u) bounds of the 80 and 95% probability intervals, respectively. Datasets `tfrprojHigh` and `tfrprojLow` contain high and low variants, respectively, defined as $\pm 1/2$ child.

The historical dataset `tfr_supplemental` (for 103 countries or areas) covers the period 1740-1950 (including 24 countries with data before 1850), and is based on series for five-year periods from the following sources: (1) Max Planck Institute for Demographic Research (Germany) and Vienna Institute of Demography (Austria). (2012). Human Fertility Database (HFD). Available at <https://www.humanfertility.org>. Data downloaded on 13 May 2012; (2) Festy, P. (1979). La fecondite des pays occidentaux de 1870 a 1970. Paris: Presses universitaires de France; (3) Chesnais, J.C. (1992). The demographic transition: stages, patterns, and economic implications: a longitudinal study of sixty-seven countries covering the period 1720-1984. Oxford ; New York: Clarendon Press; (4) Bhat, P.N.M. (1989). "Mortality and fertility in India, 1881-1961: a re-assessment." pp. 73-118 in India's historical demography: studies in famine, disease and society, edited by T. Dyson. London and Riverdale, Md: Curzon and Riverdale Co.; (5) Hofsten, E.A.G.v. and H. Lundstrom. (1976). Swedish population history: Main trends from 1750 to 1970. Stockholm: Statistiska centralbyran: LiberForlag; (6) Ajus, F. and M. Lindgren. (2012). Gapminder fertility dataset, 2010 (including documentation for Children per Woman (Total Fertility Rate) for countries and territories, Version 2. The Gapminder Foundation. Sweden, Stockholm. <http://www.gapminder.org/data/documentation/gd008/>. Data downloaded on 8 April 2012.

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2019).

The pre-1950 dataset was collected by Patrick Gerland.

References

World Population Prospects: The 2019 Revision. <http://population.un.org/wpp>.

Examples

```
data(tfr)
head(tfr)

data(tfrprojMed)
str(tfrprojMed)
```

UNlocations

United Nations Table of Locations

Description

United Nations table of locations, including regions, for statistical purposes as available in 2019.

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