

Package ‘wpp2012’

May 8, 2026

Version 2.2-1

Date 2014-8-21

Title World Population Prospects 2012

Author Hana Sevcikova (hanas@uw.edu), Patrick Gerland (gerland@un.org), Kirill Andreev (andreev@un.org), Nan Li (li32@un.org), Danan Gu (gud@un.org), Thomas Spoorenberg (spoorenberg@un.org)

Maintainer Hana Sevcikova <hanas@uw.edu>

Depends R (>= 2.14.2)

Description Data from the United Nation's World Population Prospects 2012

License GPL (>= 2)

URL <http://esa.un.org/wpp>, <http://esa.un.org/unpd/ppp>

NeedsCompilation no

Repository CRAN

Date/Publication 2014-08-22 07:14:07

Contents

wpp2012-package	2
e0	3
migration	4
mx	5
percentASFR	6
pop	7
sexRatio	8
tfr	9
UNlocations	10
Index	12

Description

Data from the United Nations World Population Prospects 2012.

Details

Package: wpp2012
Version: 2.2-1
Date: 2014-8-21
Depends: R (>= 2.14.2)
License: GPL (>= 2)
URL: <http://esa.un.org/wpp>, <http://esa.un.org/unpd/ppp>

The package contains the following datasets:

- `tfr`, `tfr_supplemental`, `tfrprojMed`, `tfrproj80u`, `tfrproj80l`, `tfrproj95u`, `tfrproj95l`, `tfrprojHigh`, `tfrprojLow`: estimates and projections of total fertility rate.
- `e0F`, `e0M`, `e0X_supplemental`, `e0Xproj`, `e0Xproj80u`, `e0Xproj80l`, `e0Xproj95u`, `e0Xproj95l`: sex-specific estimates and projections of life expectancy with X="F" and "M".
- `popF`, `popM`, `popXprojMed`, `popXprojHigh`, `popXprojLow`: age- and sex-specific population estimates and projections with X="F" and "M".
- `popproj80l`, `popproj80u`, `popproj95l`, `popproj95u`, `popprojLow`, `popprojHigh`: Lower and upper bounds of 80 and 95% probability intervals of total population projections, as well as +/-1/2 child variants.
- `mxF`, `mxM`: age- and sex-specific mortality rates
- `migrationF`, `migrationM`: age- and sex-specific net migration (see note below)
- `sexRatio`: sex ratio at birth as a ratio of female to male
- `percentASFR`: distribution of age-specific fertility rates
- `UNlocations`: location dataset

Note

Distributions of net migrants by age and sex are provided for illustrative purpose only. Migration figures are based on intercensal net residuals and official statistics, population distribution by age and sex or simplified versions of Rogers-Castro migration age patterns, and incorporate statistical adjustment errors.

Author(s)

Hana Sevcikova (hanas@uw.edu), Patrick Gerland (gerland@un.org), Kirill Andreev (andreev@un.org), Nan Li (li32@un.org), Danan Gu (gud@un.org), Thomas Spoorenberg (spoorenberg@un.org)
Maintainer: Hana Sevcikova <hanas@uw.edu>

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2013). The probabilistic projections were produced with the method of Raftery et al. (2012).

References

World Population Prospects: The 2012 Revision. (<http://esa.un.org/unpd/wpp>) Special Tabulations.

Probabilistic projections: <http://esa.un.org/unpd/ppp>

A. E. Raftery, N. Li, H. Sevcikova, P. Gerland, G. K. Heilig (2012). Bayesian probabilistic population projections for all countries. *Proceedings of the National Academy of Sciences* 109:13915-13921.

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 2012. 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.

Usage

data(e0F)

data(e0M)

data(e0F_supplemental)

data(e0M_supplemental)

data(e0Fproj)

data(e0Mproj)

data(e0Fproj80l)

data(e0Fproj80u)

data(e0Mproj80l)

data(e0Mproj80u)

data(e0Fproj95l)

data(e0Fproj95u)

data(e0Mproj95l)

data(e0Mproj95u)

Format

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

country Name of country or region (following ISO 3166 official short names in English - see http://www.iso.org/iso/country_codes/iso_3166_code_lists/english_country_names_and_code_elements.htm and United Nations Multilingual Terminology Database - see <http://unterm.un.org>).

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

1950-1955, 1955-1960, ... Life expectancy in various five-year time intervals. last.observed containing the year of the last observation for each country. The e0*proj datasets start at 2010-2015. The e0*_supplemental datasets start at 1750-1755. Missing data have NA values.

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2013).

References

World Population Prospects: The 2012 Revision. (<http://esa.un.org/unpd/wpp>) Special Tabulations.

Examples

```
data(e0M)
head(e0M)

data(e0Fproj)
str(e0Fproj)
```

migration

Datasets on Migration

Description

Estimates and projections of male and female age-specific net migration.

Usage

```
data(migrationM)
data(migrationF)
```

Format

Data frames with one row per country and age group. For each country there are 21 age groups. It contains the following variables:

country Country name.

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

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.

1990-1995, 1995-2000, 2000-2005, ... Net migration for the specific time period. Not available data are represented by an empty string.

Note

Distributions of net migrants by age and sex are provided for illustrative purpose only. Migration figures are based on intercensal net residuals and official statistics, population distribution by age and sex or simplified versions of Rogers-Castro migration age patterns, and incorporate statistical adjustment errors.

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2013).

References

World Population Prospects: The 2012 Revision. (<http://esa.un.org/unpd/wpp>) Special Tabulations.

Examples

```
data(migrationM)
str(migrationM)
```

 mx

Age-specific Mortality Data

Description

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

Usage

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

Format

Data frames with one row per country and age group. For each country there are 22 or more age groups (i.e., up to age 100+ or 110+). It contains the following variables:

country Country name.

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

age A character string representing an age interval (given by the starting age of the interval). For each country there are 22 values: "0", "1", "5", "10", "15", "20", "25", "30", "35", "40", "45", "50", "55", "60", "65", "70", "75", "80", "85", "90", "95", and "100+" in that order.

1950-1955, 1955-1960, ... Mortality rate for the given time period. Not available data are represented by an empty string.

Source

This dataset is based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2013).

References

World Population Prospects: The 2013 Revision. (<http://esa.un.org/unpd/wpp>) Special Tabulations.

Examples

```
data(mxF)
str(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, country_code, age and one columns per time interval.

Source

This dataset is based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2013).

References

World Population Prospects: The 2012 Revision. (<http://esa.un.org/unpd/wpp>) Special Tabulations.

Examples

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

pop

Estimates and Projections of Population Counts

Description

Datasets with age-specific male and female historical population estimates and projections. Datasets popM (popF) contains estimates of the historical population counts for male (female). Datasets popXprojMed, popXprojHigh and popXprojLow contain median, high and low projections, respectively, with X=M for male and X=F for female. 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, i.e. aggregated over sex and age. Datasets popprojHigh and popprojLow contain the upper and lower bounds of total population defined as $\pm 1/2$ child.

Usage

```
data(popM)
data(popF)
data(popMprojMed)
data(popFprojMed)
data(popMprojHigh)
data(popFprojHigh)
data(popMprojLow)
data(popFprojLow)
data(popproj80l)
data(popproj80u)
data(popproj95l)
data(popproj95u)
data(popprojHigh)
data(popprojLow)
```

Format

Data frames with one row per country and age group. For each country there are 21 age groups. It contains the following variables:

country Country name.

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

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 for the given time (mid-year).

Datasets popproj80l, popproj80u, popproj95l, popproj95u, popprojHigh, and popprojLow contain one row per country.

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2013).

References

World Population Prospects: The 2012 Revision. (<http://esa.un.org/unpd/wpp>) Special Tabulations.

Probabilistic projections: <http://esa.un.org/unpd/ppp>

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 female divided by the number of male.

Usage

```
data(sexRatio)
```

Format

A data frame with one record per country. It contains columns country, country_code, and one columns per time interval.

Source

This dataset is based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2013).

References

World Population Prospects: The 2012 Revision. (<http://esa.un.org/unpd/wpp>) Special Tabulations.

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 2012. Dataset `tfr` contains estimates of the historical TFR starting with 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.

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` Name of country or region (following ISO 3166 official short names in English - see http://www.iso.org/iso/country_codes/iso_3166_code_lists/english_country_names_and_code_elements.htm and United Nations Multilingual Terminology Database - see <http://unterm.un.org>).

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

1950-1955, 1955-1960, ... TFR in various five-year time intervals. `last.observed` containing the year of the last observation for each country. The `tfrproj*` datasets start at 2010-2015. The `tfr_supplemental` datasets start at 1740-1745. Missing data have NA values.

Source

These datasets are based on estimates and projections of United Nations, Department of Economic and Social Affairs, Population Division (2013).

References

World Population Prospects: The 2012 Revision. (<http://esa.un.org/unpd/wpp>) Special Tabulations.

Examples

```
data(tfr)
head(tfr)

data(tfrprojMed)
str(tfrprojMed)
```

UNlocations

United Nations Table of Locations

Description

United Nations table of locations, including regions, as available in 2012.

Usage

```
data(UNlocations)
```

Format

A data frame with one observations per country or region. It contains the following seven variables:

name Name of country or region (following ISO 3166 official short names in English - see http://www.iso.org/iso/country_codes/iso_3166_code_lists/english_country_names_and_code_elements.htm and United Nations Multilingual Terminology Database - see <http://unterm.un.org>).

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

reg_code Code of the regions.

reg_name Name of the regions.

area_code Area code.

area_name Area names, such as Africa, Asia, Europe Latin America and the Caribbean, Northern America, Oceania, World.

location_type Code giving the type of the observation (0=World, 2=Major Area, 3=Region, 4=Country/Area, 5=Development group, 12=Special groupings).

Source

Data provided by the United Nations Population Division

Examples

```
data(UNlocations)
```

Index

- * **datasets**
 - e0, 3
 - migration, 4
 - mx, 5
 - percentASFR, 6
 - pop, 7
 - sexRatio, 8
 - tfr, 9
 - UNlocations, 10
- * **package**
 - wpp2012-package, 2
- e0, 3
- e0_supplemental (e0), 3
- e0F, 2
- e0F (e0), 3
- e0F_supplemental (e0), 3
- e0Fproj (e0), 3
- e0Fproj80l (e0), 3
- e0Fproj80u (e0), 3
- e0Fproj95l (e0), 3
- e0Fproj95u (e0), 3
- e0M, 2
- e0M (e0), 3
- e0M_supplemental (e0), 3
- e0Mproj (e0), 3
- e0Mproj80l (e0), 3
- e0Mproj80u (e0), 3
- e0Mproj95l (e0), 3
- e0Mproj95u (e0), 3
- e0X_supplemental, 2
- e0Xproj, 2
- e0Xproj80l, 2
- e0Xproj80u, 2
- e0Xproj95l, 2
- e0Xproj95u, 2
- migration, 4
- migrationF, 2
- migrationF (migration), 4
- migrationM, 2
- migrationM (migration), 4
- mx, 5
- mxF, 2
- mxF (mx), 5
- mxM, 2
- mxM (mx), 5
- percentASFR, 2, 6
- pop, 7
- popF, 2
- popF (pop), 7
- popFprojHigh (pop), 7
- popFprojLow (pop), 7
- popFprojMed (pop), 7
- popM, 2
- popM (pop), 7
- popMprojHigh (pop), 7
- popMprojLow (pop), 7
- popMprojMed (pop), 7
- popproj80l, 2
- popproj80l (pop), 7
- popproj80u, 2
- popproj80u (pop), 7
- popproj95l, 2
- popproj95l (pop), 7
- popproj95u, 2
- popproj95u (pop), 7
- popprojHigh, 2
- popprojHigh (pop), 7
- popprojLow, 2
- popprojLow (pop), 7
- popXprojHigh, 2
- popXprojLow, 2
- popXprojMed, 2
- sexRatio, 2, 8
- tfr, 2, 9
- tfr_supplemental, 2

tfr_supplemental (tfr), 9
tfrproj80l, 2
tfrproj80l (tfr), 9
tfrproj80u, 2
tfrproj80u (tfr), 9
tfrproj95l, 2
tfrproj95l (tfr), 9
tfrproj95u, 2
tfrproj95u (tfr), 9
tfrprojHigh, 2
tfrprojHigh (tfr), 9
tfrprojLow, 2
tfrprojLow (tfr), 9
tfrprojMed, 2
tfrprojMed (tfr), 9

UNlocations, 2, 10

wpp2012 (wpp2012-package), 2
wpp2012-package, 2