

Package: popmex (via r-universe)

April 1, 2026

Type Package

Title Population Density Mexico

Version 0.1.0

Maintainer The package maintainer <felie.dzul.m@gmail.com>

Description The goal of the popmex package is to provide spatial population dataset at different levels of resolution.

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URL <https://github.com/fdzul/popmex>, <https://fdzul.github.io/popmex/>

BugReports <https://github.com/fdzul/popmex/issues>

Encoding UTF-8

LazyData true

Depends R (>= 3.5)

RoxygenNote 7.3.3

Suggests knitr, rmarkdown

VignetteBuilder knitr

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

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RemoteUrl <https://github.com/fdzul/popmex>

RemoteRef HEAD

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Contents

extract_pop	2
hdx_pop2021	2
hdx_pop2022	3
hdx_pop2023	4
pop2000	4
pop2010	5
pop2020	7

Index**9**

extract_pop	<i>extracts the population density at the locality level in hexagons of 400 meters resolution for the years 2023 and 2022</i>
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Description

extracts the population density at the locality level in hexagons of 400 meters resolution for the years 2023 and 2022

Usage

```
extract_pop(year, cve_edo, locality)
```

Arguments

year	is the year dataset
cve_edo	is the id of state.
locality	is the target locality.

Value

a sf object

Author(s)

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Examples

```
popmex::extract_pop(year = 2023, cve_edo = "31", locality = "Merida")
```

hdx_pop2021	<i>Population Density Mexico HDX data 2021</i>
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Description

A subset of data from the HUMANITARIAN DATA EXCHANGE Population Density of Mexico dataset ...

Usage

```
hdx_pop2021
```

Format

'hdx_pop2021' A sf & data frame with 362028 rows and 2 columns:

population Population Density for 400m H3 Hexagons

geom geometry ...

Details

EPSG 4326...

Source

<<https://data.humdata.org/dataset/kontur-population-dataset>>

hdx_pop2022

Population Density Mexico HDX data 2022

Description

A subset of data from the HUMANITARIAN DATA EXCHANGE Population Density of Mexico dataset ...

Usage

hdx_pop2022

Format

'hdx_pop2022' A sf & data frame with 463830 rows and 3 columns:

h3 id of hexagon

population Population Density for 400m H3 Hexagons

geom geometry ...

Source

<<https://data.humdata.org/dataset/kontur-population-mexico?>>

 hdx_pop2023

Population Density Mexico HDX data 2023

Description

A subset of data from the HUMANITARIAN DATA EXCHANGE Population Density of Mexico dataset ...

Usage

hdx_pop2023

Format

'hdx_pop2023' A sf & data frame with 456514 rows and 3 columns:

h3 id of hexagon

population Population Density for 400m H3 Hexagons

geom geometry ...

Details

EPSG 4326...

Source

<<https://data.humdata.org/dataset/kontur-population-mexico?>>

pop2000

population by municipality (ITER 2000).

Description

a dataset of population by municipality of mexico. dataset ...

Usage

pop2000

Format

'pop2000' A data frame with 2443 rows and 4 columns:

CVEGEO id of the municipality.

pobtot population

pobfem female population

pobmas male population ...

Details

The population data by total number and sex for each municipality were obtained from the dataset of territorial indicators known as ITER /(Indicadores Territoriales/), which is a database derived from the 2020 Population and Housing Census generated by Instituto Nacional de Estadística y Geografía (INEGI)

Source

<<https://www.inegi.org.mx/app/scitel/Default?ev=9>>

pop2010

population by municipality (ITER 2010).

Description

a dataset of population by municipality of mexico. dataset ...

Usage

pop2010

Format

'pop2010' A data frame with 2456 rows and 44 columns:

CVEGEO id of the municipality.

pobtot population

pobfem female population

pobmas male population

p_0a2 population between 0 and 2 years of age

p_0a2_f female population between 0 and 2 years of age

p_0a2_m male population between 0 and 2 years of age

p_3ymas population over 3 years of age

p_3ymas_f female population over 3 years of age

p_3ymas_m male population over 3 years of age

p_5ymas population over 5 years of age

p_5ymas_f female population over 5 years of age

p_5ymas_m male population over 5 years of age

p_12ymas population over 12 years of age

p_12ymas_f female population over 12 years of age

p_12ymas_m male population over 12 years of age

p_15ymas population over 15 years of age

p_15ymas_f female population over 15 years of age
p_15ymas_m male population over 15 years of age
p_18ymas population over 18 years of age
p_18ymas_f female population over 18 years of age
p_18ymas_m male population over 18 years of age
p_3a5 population between 3 and 5 years of age
p_3a5_f female population between 3 and 5 years of age
p_3a5_m male population between 3 and 5 years of age
p_6a11 population between 6 and 11 years of age
p_6a11_f female population between 6 and 11 years of age
p_6a11_m male population between 6 and 11 years of age
p_8a14 population between 8 and 14 years of age
p_8a14_f female population between 8 and 14 years of age
p_8a14_m male population between 8 and 14 years of age
p_12a14 population between 12 and 14 years of age
p_12a14_f female population between 12 and 14 years of age
p_12a14_m male population between 12 and 14 years of age
p_15a17 population between 15 and 17 years of age
p_15a17_f female population between 15 and 17 years of age
p_15a17_m male population between 15 and 17 years of age
p_18a24 population between 18 and 24 years of age
p_18a24_f female population between 18 and 24 years of age
p_18a24_m male population between 18 and 24 years of age
p_15a49_f female population between 15 and 49 years of age
p_60ymas population over 60 years of age
p_60ymas_f female population over 60 years of age
p_60ymas_m male population over 60 years of age ...

Details

The population data by total number and sex for each municipality were obtained from the dataset of territorial indicators known as ITER /(Indicadores Territoriales/), which is a database derived from the 2020 Population and Housing Census generated by Instituto Nacional de Estadística y Geografía (INEGI)

Source

<<https://www.inegi.org.mx/app/scitel/Default?ev=9>>

pop2020

population by municipality (ITER 2020).

Description

a dataset of population by municipality of mexico. dataset ...

Usage

pop2020

Format

'pop2020' A data frame with 2469 rows and 44 columns:

CVEGEO id of the municipality.

pobtot population

pobfem female population

pobmas male population

p_0a2 population between 0 and 2 years of age

p_0a2_f female population between 0 and 2 years of age

p_0a2_m male population between 0 and 2 years of age

p_3ymas population over 3 years of age

p_3ymas_f female population over 3 years of age

p_3ymas_m male population over 3 years of age

p_5ymas population over 5 years of age

p_5ymas_f female population over 5 years of age

p_5ymas_m male population over 5 years of age

p_12ymas population over 12 years of age

p_12ymas_f female population over 12 years of age

p_12ymas_m male population over 12 years of age

p_15ymas population over 15 years of age

p_15ymas_f female population over 15 years of age

p_15ymas_m male population over 15 years of age

p_18ymas population over 18 years of age

p_18ymas_f female population over 18 years of age

p_18ymas_m male population over 18 years of age

p_3a5 population between 3 and 5 years of age

p_3a5_f female population between 3 and 5 years of age

p_3a5_m male population between 3 and 5 years of age

p_6a11 population between 6 and 11 years of age
p_6a11_f female population between 6 and 11 years of age
p_6a11_m male population between 6 and 11 years of age
p_8a14 population between 8 and 14 years of age
p_8a14_f female population between 8 and 14 years of age
p_8a14_m male population between 8 and 14 years of age
p_12a14 population between 12 and 14 years of age
p_12a14_f female population between 12 and 14 years of age
p_12a14_m male population between 12 and 14 years of age
p_15a17 population between 15 and 17 years of age
p_15a17_f female population between 15 and 17 years of age
p_15a17_m male population between 15 and 17 years of age
p_18a24 population between 18 and 24 years of age
p_18a24_f female population between 18 and 24 years of age
p_18a24_m male population between 18 and 24 years of age
p_15a49_f female population between 15 and 49 years of age
p_60ymas population over 60 years of age
p_60ymas_f female population over 60 years of age
p_60ymas_m male population over 60 years of age ...

Details

The population data by total number and sex for each municipality were obtained from the dataset of territorial indicators known as ITER /(Indicadores Territoriales/), which is a database derived from the 2020 Population and Housing Census generated by Instituto Nacional de Estadística y Geografía (INEGI)

Source

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Index

* datasets

hdx_pop2021, [2](#)

hdx_pop2022, [3](#)

hdx_pop2023, [4](#)

pop2000, [4](#)

pop2010, [5](#)

pop2020, [7](#)

extract_pop, [2](#)

hdx_pop2021, [2](#)

hdx_pop2022, [3](#)

hdx_pop2023, [4](#)

pop2000, [4](#)

pop2010, [5](#)

pop2020, [7](#)