

Package ‘USpopcenters’

January 20, 2025

Title United States Centers of Population (Centroids)

Version 0.2.0

Description Centers of population (centroid) data for census areas in the United States.

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URL <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.html>,

<https://github.com/NikKrieger/USpopcenters>

BugReports <https://github.com/NikKrieger/USpopcenters/issues>

Depends R (>= 2.10)

Suggests tibble

Encoding UTF-8

LazyData true

LazyDataCompression xz

RoxygenNote 7.2.3

NeedsCompilation no

Author Nik Krieger [aut, cre]

Maintainer Nik Krieger <nk@case.edu>

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block_group2000	<i>Centers of population of US census tracts according to the 2000 census</i>
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Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of census block groups in the US states plus the District of Columbia and Puerto Rico. Populations according to the 2000 decennial census are also included.

Usage

block_group2000

Format

A [tibble](#) with 211,267 rows and 7 variables:

STATEFP The two-digit GEOID of the state where the block group is located

COUNTYFP The last three digits of the five-digit GEOID of the county where the block group is located

TRACTCE The last six digits of the eleven-digit GEOID of the tract where the block group is located

BLKGRPCE The last digit of the twelve-digit GEOID of the block group

POPULATION The population of the block group

LATITUDE The latitude coordinate of the center of population (centroid) of the block group (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the block group (positive is east; negative is west)

Details

There are 707 block groups with a POPULATION of 0 and a missing value for both LATITUDE and LONGITUDE.

Unlike [county2000](#), block_group2000 does not contain data from American Samoa, Guam, the Northern Mariana Islands, or the US Virgin Islands.

The source data file in the [zip file](#) on the US census website has different column names than what its [data dictionary](#) reports. The data dictionary's version of the column names were used, since they are consistent with the majority of the other data files and data dictionaries on the census website.

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is in the .zip file at https://www2.census.gov/geo/docs/reference/cenpop2000/blkgrp/bg_popcen.zip. The 2000 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2000.html>

See Also

Other 2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#)

2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

Examples

block_group2000

block_group2010	<i>Centers of population of US census block groups according to the 2010 census</i>
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Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of census block groups in the US states plus the District of Columbia and Puerto Rico. Populations according to the 2010 decennial census are also included.

Usage

block_group2010

Format

A [tibble](#) with 220,334 rows and 7 variables:

STATEFP The two-digit GEOID of the state where the block group is located

COUNTYFP The last three digits of the five-digit GEOID of the county where the block group is located

TRACTCE The last six digits of the eleven-digit GEOID of the tract where the block group is located

BLKGRPCE The last digit of the twelve-digit GEOID of the block group

POPULATION The population of the block group

LATITUDE The latitude coordinate of the center of population (centroid) of the block group (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the block group (positive is east; negative is west)

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at https://www2.census.gov/geo/docs/reference/cenpop2010/blkgrp/CenPop2010_Mean_BG.txt The 2010 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2010.html>

See Also

Other 2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#); [block_group2000](#)

Examples

`block_group2010`

<code>block_group2020</code>	<i>Centers of population of US census block groups according to the 2020 census</i>
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Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of census block groups in the US states plus the District of Columbia and Puerto Rico. Populations according to the 2020 decennial census are also included.

Usage

`block_group2020`

Format

A [tibble](#) with 242,335 rows and 7 variables:

STATEFP The two-digit GEOID of the state where the block group is located

COUNTYFP The last three digits of the five-digit GEOID of the county where the block group is located

TRACTCE The last six digits of the eleven-digit GEOID of the tract where the block group is located

BLKGRPCE The last digit of the twelve-digit GEOID of the block group

POPULATION The population of the block group

LATITUDE The latitude coordinate of the center of population (centroid) of the block group (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the block group (positive is east; negative is west)

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at https://www2.census.gov/geo/docs/reference/cenpop2020/blkgrp/CenPop2020_Mean_BG.txt The 2020 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2020.html>

See Also

Other 2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [US_mean_center2020](#); [US_median_center2020](#)

2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#); [block_group2000](#)

Examples

`block_group2020`

`county2000`*Centers of population of US counties according to the 2000 census*

Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of counties (and county equivalents) in the US states plus the District of Columbia, Puerto Rico, American Samoa, Guam, the Northern Mariana Islands, and the US Virgin Islands. Populations according to the 2000 decennial census are also included.

Usage

`county2000`

Format

A [tibble](#) with 3,232 rows and 6 variables:

STATEFP The two-digit GEOID of the state where the county is located

COUNTYFP The last three digits of the five-digit GEOID of the county

COUNAME The name of the county

POPULATION The population of the county

LATITUDE The latitude coordinate of the center of population (centroid) of the county (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the county (positive is east; negative is west)

Details

This had to be stitched together from separate state files.

Unlike [county2020](#) and [county2010](#), `county2000` contains data from American Samoa, Guam, the Northern Mariana Islands, and the US Virgin Islands. Also unlike [county2020](#) and [county2010](#), `county2000` does not contain the `STNAME` (state name) column.

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The individual state source files are at <https://www2.census.gov/geo/docs/reference/cenpop2000/county/>. The 2000 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2000.html>

See Also

Other 2000 census centers of population: [state2000](#); [tract2000](#); [block_group2000](#)

2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

Examples

```
county2000
```

```
county2010
```

Centers of population of US counties according to the 2010 census

Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of counties (and county equivalents) in the US states plus the District of Columbia and Puerto Rico. Populations according to the 2010 decennial census are also included.

Usage

```
county2010
```

Format

A [tibble](#) with 3,221 rows and 7 variables:

STATEFP The two-digit GEOID of the state where the county is located

COUNTYFP The last three digits of the five-digit GEOID of the county

COUNAME The name of the county

STNAME The name of the state where the county is located

POPULATION The population of the county

LATITUDE The latitude coordinate of the center of population (centroid) of the county (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the county (positive is east; negative is west)

Details

Unlike [county2000](#), [county2010](#) and [county2020](#) do not contain data from American Samoa, Guam, the Northern Mariana Islands, or the US Virgin Islands. Also unlike [county2000](#), [county2010](#) and [county2020](#) contain the state name column STNAME.

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at https://www2.census.gov/geo/docs/reference/cenpop2010/county/CenPop2010_Mean_CO.txt The 2010 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2010.html>

See Also

Other 2010 census centers of population: [state2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#); [block_group2000](#)

Examples

county2010

county2020

Centers of population of US counties according to the 2020 census

Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of counties (and county equivalents) in the US states plus the District of Columbia and Puerto Rico. Populations according to the 2020 decennial census are also included.

Usage

county2020

Format

A [tibble](#) with 3,221 rows and 7 variables:

STATEFP The two-digit GEOID of the state where the county is located

COUNTYFP The last three digits of the five-digit GEOID of the county

COUNAME The name of the county

STNAME The name of the state where the county is located

POPULATION The population of the county

LATITUDE The latitude coordinate of the center of population (centroid) of the county (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the county (positive is east; negative is west)

Details

Unlike [county2000](#), [county2020](#) and [county2010](#) do not contain data from American Samoa, Guam, the Northern Mariana Islands, or the US Virgin Islands. Also unlike [county2000](#), [county2020](#) and [county2010](#) contain the state name column STNAME.

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at https://www2.census.gov/geo/docs/reference/cenpop2020/county/CenPop2020_Mean_CO.txt The 2020 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2020.html>

See Also

Other 2020 census centers of population: [state2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#); [block_group2000](#)

Examples

`county2020`

`state2000`

Centers of population of US states according to the 2000 census

Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of the US states plus the District of Columbia. Populations according to the 2000 decennial census are also included.

Usage

`state2000`

Format

A [tibble](#) with 51 rows and 5 columns

STATEFP The two-digit GEOID of the state

STNAME The name of the state

POPULATION The population of the state

LATITUDE The latitude coordinate of the center of population (centroid) of the state (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the state (positive is east; negative is west)

Details

Note that this dataset does not contain Puerto Rico data, unlike [state2010](#) and [state2020](#).

Furthermore, unlike [county2000](#), [state2000](#) does not contain data from Puerto Rico, American Samoa, Guam, the Northern Mariana Islands, or the US Virgin Islands.

The [source data file](#) on the US census website has different column names than what its [data dictionary](#) reports. The data dictionary's version of the column names were used, since they are consistent with the majority of the other data files and data dictionaries on the census website.

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at <https://www2.census.gov/geo/docs/reference/cenpop2000/statecenters.txt>. The 2000 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2000.html>

See Also

Other 2000 census centers of population: [county2000](#); [tract2000](#); [block_group2000](#)

2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

Examples

`state2000`

`state2010`*Centers of population of US states according to the 2010 census*

Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of the US states plus the District of Columbia and Puerto Rico. Populations according to the 2010 decennial census are also included.

Usage`state2010`**Format**

A [tibble](#) with 52 rows and 5 columns

STATEFP The two-digit GEOID of the state

STNAME The name of the state

POPULATION The population of the state

LATITUDE The latitude coordinate of the center of population (centroid) of the state (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the state (positive is east; negative is west)

Details

Note that this dataset (and [state2020](#)) contains Puerto Rico data, unlike [state2000](#).

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at https://www2.census.gov/geo/docs/reference/cenpop2010/CenPop2010_Mean_ST.txt. The 2010 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2010.html>

See Also

Other 2010 census centers of population: [county2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#); [block_group2000](#)

Examples

state2010

state2020

Centers of population of US states according to the 2020 census

Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of the US states plus the District of Columbia and Puerto Rico. Populations according to the 2020 decennial census are also included.

Usage

state2020

Format

A [tibble](#) with 52 rows and 5 columns

STATEFP The two-digit GEOID of the state

STNAME The name of the state

POPULATION The population of the state

LATITUDE The latitude coordinate of the center of population (centroid) of the state (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the state (positive is east; negative is west)

Details

Note that this dataset (and [state2010](#)) contains Puerto Rico data, unlike [state2000](#).

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at https://www2.census.gov/geo/docs/reference/cenpop2020/CenPop2020_Mean_ST.txt. The 2020 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2020.html>

See Also

Other 2020 census centers of population: [county2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#); [block_group2000](#)

Examples

`state2020`

<code>tract2000</code>	<i>Centers of population of US census tracts according to the 2000 census</i>
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Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of census tracts in the US states plus the District of Columbia and Puerto Rico. Populations according to the 2000 decennial census are also included.

Usage

`tract2000`

Format

A [tibble](#) with 66,304 rows and 6 variables:

STATEFP The two-digit GEOID of the state where the tract is located

COUNTYFP The last three digits of the five-digit GEOID of the tract

TRACTCE The last six digits of the eleven-digit GEOID of the tract

POPULATION The population of the tract

LATITUDE The latitude coordinate of the center of population (centroid) of the tract (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the tract (positive is east; negative is west)

Details

There are 307 tracts with a POPULATION of 0 and a missing value for both LATITUDE and LONGITUDE.

Unlike [county2000](#), `tract2000` does not contain data from American Samoa, Guam, the Northern Mariana Islands, or the US Virgin Islands.

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at https://www2.census.gov/geo/docs/reference/cenpop2000/tract/tract_pop.txt. The 2000 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2000.html>

See Also

Other 2000 census centers of population: [state2000](#); [county2000](#); [block_group2000](#)

2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

Examples

tract2000

tract2010

Centers of population of US census tracts according to the 2010 census

Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of census tracts in the US states plus the District of Columbia and Puerto Rico. Populations according to the 2010 decennial census are also included.

Usage

tract2010

Format

A [tibble](#) with 74,002 rows and 6 variables:

STATEFP The two-digit GEOID of the state where the tract is located

COUNTYFP The last three digits of the five-digit GEOID of the county where the tract is located

TRACTCE The last six digits of the eleven-digit GEOID of the tract

POPULATION The population of the tract

LATITUDE The latitude coordinate of the center of population (centroid) of the tract (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the tract (positive is east; negative is west)

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at https://www2.census.gov/geo/docs/reference/cenpop2010/tract/CenPop2010_Mean_TR.txt The 2010 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2010.html>

See Also

Other 2010 census centers of population: [state2010](#); [county2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#); [block_group2000](#)

Examples

tract2010

tract2020

Centers of population of US census tracts according to the 2020 census

Description

A data set of the latitude and longitude coordinates of the centers of population (centroids) of census tracts in the US states plus the District of Columbia and Puerto Rico. Populations according to the 2020 decennial census are also included.

Usage

tract2020

Format

A [tibble](#) with 85,395 rows and 6 variables:

STATEFP The two-digit GEOID of the state where the tract is located

COUNTYFP The last three digits of the five-digit GEOID of the county where the tract is located

TRACTCE The last six digits of the eleven-digit GEOID of the tract

POPULATION The population of the tract

LATITUDE The latitude coordinate of the center of population (centroid) of the tract (positive is north; negative is south)

LONGITUDE The longitude coordinate of the center of population (centroid) of the tract (positive is east; negative is west)

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file is at https://www2.census.gov/geo/docs/reference/cenpop2020/tract/CenPop2020_Mean_TR.txt The 2020 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2020.html>

See Also

Other 2020 census centers of population: [state2020](#); [county2020](#); [block_group2020](#); [US_mean_center2020](#); [US_median_center2020](#)

2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [block_group2010](#); [US_mean_center2010](#); [US_median_center2010](#)

2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#); [block_group2000](#)

Examples

tract2020

US_mean_center2020	<i>Mean and Median centers of population of the US</i>
--------------------	--

Description

A data set of the latitude and longitude coordinates of the mean and median centers of population (centroids) of the United States, according to the 2020 and 2010 US Census.

Usage

US_mean_center2020

US_median_center2020

US_mean_center2010

US_median_center2010

Format

A [tibble](#) with 1 row and 3 columns

POPULATION The population of the US

LATITUDE The latitude coordinate of the mean or median center of population (centroid) of the US (positive is north; negative is south)

LONGITUDE The longitude coordinate of the mean or median center of population (centroid) of the US (positive is east; negative is west)

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1 rows and 3 columns.

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1 rows and 3 columns.

An object of class `spec_tbl_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 1 rows and 3 columns.

Details

The total US population according to the decennial census is also included in each of these one-row [tibbles](#).

US census data terms of service

<https://www.census.gov/data/developers/about/terms-of-service.html>

Source

The source file for `US_mean_center2020` is at https://www2.census.gov/geo/docs/reference/cenpop2020/CenPop2020_Mean_US.txt.

The source file for `US_median_center2020` is at https://www2.census.gov/geo/docs/reference/cenpop2020/CenPop2020_Median_US.txt.

The 2020 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2020.html>

The source file for `US_mean_center2010` is at https://www2.census.gov/geo/docs/reference/cenpop2010/CenPop2010_Mean_US.txt.

The source file for `US_median_center2010` is at https://www2.census.gov/geo/docs/reference/cenpop2010/CenPop2010_Median_US.txt.

The 2010 center of population info page is at <https://www.census.gov/geographies/reference-files/time-series/geo/centers-population.2010.html>

See Also

Other 2020 census centers of population: [state2020](#); [county2020](#); [tract2020](#); [block_group2020](#)

Other 2010 census centers of population: [state2010](#); [county2010](#); [tract2010](#); [block_group2010](#)

2000 census centers of population: [state2000](#); [county2000](#); [tract2000](#); [block_group2000](#)

Examples

```
US_mean_center2020
US_median_center2020
US_mean_center2010
US_median_center2010
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