

# Package ‘baf’

May 7, 2026

**Title** Block Assignment Files

**Version** 0.0.4

**Description** Download and read US Census Bureau data relationship files. Provides support for cleaning and using block assignment files since 2010, as described in <https://www.census.gov/geographies/reference-files/time-series/geo/block-assignment-files.html>. Also includes support for working with block equivalency files, used for years outside of decennial census years.

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Imports** cli, curl, dplyr, fs, glue, readr

**Depends** R (>= 4.2.0)

**URL** <http://christophertkenny.com/baf/>,  
<https://github.com/christopherkenny/baf>

**Suggests** testthat (>= 3.0.0)

**Config/testthat/edition** 3

**LazyData** true

**NeedsCompilation** no

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**Repository** CRAN

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baf	<i>Download Block Assignment Files (BAF) from the Census Bureau</i>
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## Description

Download Block Assignment Files (BAF) from the Census Bureau

## Usage

```
baf(
  state,
  year = 2020,
  geographies = NULL,
  cache_to = baf_download_path(),
  overwrite = FALSE
)
```

## Arguments

state	state to download data for.
year	year to download data for. Default is 2020.
geographies	geography types to download. Default is NULL, which gets all available geographies.
cache_to	directory name to save the downloaded data. Default is baf_download_path().
overwrite	Should the data be re-downloaded? Default is FALSE.

## Value

a list of `dplyr::tibbles` for each geography type

## Examples

```
baf('DE', 2020)
```

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baf_download	<i>Download a file</i>
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**Description**

Download a file

**Usage**

```
baf_download(url, path, overwrite = FALSE, quiet = FALSE)
```

**Arguments**

url	a URL
path	a file path
overwrite	should the file at path be overwritten if it already exists? Default is FALSE.
quiet	should output and progress bar be suppressed?

**Value**

a path to the downloaded file, invisibly

**Examples**

```
tf <- tempfile(fileext = '.zip')
ex <- 'https://www2.census.gov/geo/docs/maps-data/data/baf2020/BlockAssign_ST01_AL.zip'
baf_download(url = ex, path = tf)
```

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baf_download_path	<i>Get download location for baf files</i>
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**Description**

Get download location for baf files

**Usage**

```
baf_download_path()
```

**Value**

a path

**Examples**

```
baf_download_path()
```

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clean_bafs	<i>Clean Block Assignment Files</i>
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**Description**

Clean Block Assignment Files

**Usage**

```
clean_bafs(bafs, state = NULL)
```

**Arguments**

bafs	list of block assignment files, named by type
state	if provided, adds the first two digits of the state FIPS to each code

**Value**

a tibble with two columns

- GEOID: block GEOIDs
- target: output GEOIDs for the target geography

**Examples**

```
data('example_baf') |>  
  clean_bafs('WA')
```

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example_baf	<i>Example BAF data from Adams County, WA</i>
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**Description**

list of tibbles with 1,562 rows each

**Usage**

```
data('example_baf')
```

**Value**

tibble with state identifying information

**Examples**

```
data('example_baf')
```

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