

# Package: hudr (via r-universe)

August 29, 2024

**Encoding** UTF-8

**Language** en-US

**Type** Package

**Title** Providing Data from the US Department of Housing and Urban  
Development

**Version** 1.2.0

**Date** 2022-09-17

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**Description** Provides functions to access data from the US Department  
of Housing and Urban Development  
<<https://www.huduser.gov/portal/dataset/fmr-api.html>>.

**License** GPL (>= 3)

**Depends** R (>= 3.5.0)

**Imports** magrittr, data.table, janitor, httr

**RoxygenNote** 7.2.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2022-09-17 14:06:04 UTC

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hudr-package	<i>Package that provides data from HUD.</i>
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**Description**

Provides functions to access data from the US Department of Housing and Urban Development <https://www.huduser.gov/portal/dataset/fmr-api.html>.

**Details**

Provides data from the US Department of Housing and Urban Development (HUD).

**References**

<<https://www.huduser.gov/portal/dataset/fmr-api.html>>

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get_hud_chas_data	<i>Get HUD Comprehensive Housing Affordability Strategy (CHAS) data at the Place, MCD, County, State, National Level from HUD.</i>
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**Description**

Provides Comprehensive Housing Affordability Strategy (CHAS) data at the Place, MCD, County, State, National Level from HUD.

**Usage**

```
get_hud_chas_data(
  entityid,
  stateid,
  type,
  yr,
  hud_key = Sys.getenv("HUD_API_KEY")
)
```

**Arguments**

entityid	Character string containing the 'fips_code' from get_hud_fmr_listcounties(...) or 'cbsa_code' from get_hud_fmr_listmetros(...).
stateid	Character string containing the 'fips_code' for the State.
type	Character string indicating the summary level. Option include 1-5. 1 - Nation, 2 - State, 3 - County, 4 - MCD, 5 - Place.
yr	Character string indicating the year.
hud_key	Character string indicating your API key from HUD.

**Details**

Provides fair market rent data at the County and MSA level from HUD.

**Value**

A list of data tables containing fair market rent data from HUD.

**Author(s)**

Paul Richardson

**Examples**

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

chas_cnty_dt <- get_hud_chas_data(entityid = "033", stateid = "53",
                                type = "3", yr = "2014-2018",
                                hud_key = hud_key)

## End(Not run)
```

---

get\_hud\_chas\_entityid\_list

*Get HUD Comprehensive Housing Affordability Strategy (CHAS) data at the Place, MCD, County, State, National Level from HUD.*

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**Description**

Provides a data.table containing the entityIds for all of the counties within a given state for the Comprehensive Housing Affordability Strategy (CHAS) data from HUD.

**Usage**

```
get_hud_chas_entityid_list(
  stateid,
  geo_lvl,
  hud_key = Sys.getenv("HUD_API_KEY")
)
```

**Arguments**

- stateid            Character string containing the 'fips\_code' for the State.
- geo\_lvl           Character string indicating either "county", "MDC", or "city".
- hud\_key           Character string indicating your API key from HUD.

**Details**

Provides fair market rent data at the County and MSA level from HUD.

**Value**

A list of data tables containing fair market rent data from HUD.

**Author(s)**

Paul Richardson

**Examples**

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

chas_cnty_lst_dt <- get_hud_chas_entityid_list(stateid = "53",
                                              geo_lvl = "county",
                                              hud_key = hud_key)

## End(Not run)
```

---

get_hud_fmr_data	<i>Get HUD Fair Market Rent data at the County or MSA Level from HUD.</i>
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**Description**

Provides fair market rent data at the County and MSA level from HUD.

**Usage**

```
get_hud_fmr_data(entityid, yr, hud_key = Sys.getenv("HUD_API_KEY"))
```

**Arguments**

entityid	Character string containing the 'fips_code' from get_hud_fmr_listcounties(...) or 'cbsa_code' from get_hud_fmr_listmetros(...).
yr	Character string indicating the year.
hud_key	Character string indicating your API key from HUD. Default is Sys.getenv("HUD_API_KEY").

**Details**

Provides fair market rent data at the County and MSA level from HUD.

**Value**

A list of data tables containing fair market rent data from HUD.

**Author(s)**

Paul Richardson

**Examples**

```
## Not run:
library(hudr)

hud_key <- Sys.getenv("HUD_API_KEY")

cbsa_codes <- get_hud_fmr_listmetros(hud_key = hud_key)
cnty_codes <- get_hud_fmr_listcounties(hud_key = hud_key)

fmr_msa_dt <- get_hud_fmr_data(entityid = cbsa_codes$cbsa_code[1],
                             yr = "2020",
                             hud_key = hud_key)
fmr_cnty_dt <- get_hud_fmr_data(entityid = cnty_codes$fips_code[1],
                               yr = "2020",
                               hud_key = hud_key)

## End(Not run)
```

---

`get_hud_fmr_listcounties`  
*Get HUD List of County Codes data.*

---

**Description**

Provides list of county codes data from HUD.

**Usage**

```
get_hud_fmr_listcounties(stateid, hud_key = Sys.getenv("HUD_API_KEY"))
```

**Arguments**

`stateid`            Character string indicating the state.  
`hud_key`            Character string indicating your API key from HUD.

**Details**

Provides list of county codes data from HUD.

**Value**

A data table containing a list of county codes from HUD.

**Author(s)**

Paul Richardson

**Examples**

```
## Not run:  
library(hudr)  
  
hud_key <- Sys.getenv("HUD_API_KEY")  
  
state_codes <- get_hud_fmr_listcounties(hud_key = hud_key)  
  
## End(Not run)
```

---

get\_hud\_fmr\_listmetros

*Get HUD List of MSA Codes data.*

---

**Description**

Provides list of MSA codes data from HUD.

**Usage**

```
get_hud_fmr_listmetros(hud_key = Sys.getenv("HUD_API_KEY"))
```

**Arguments**

hud\_key            Character string indicating your API key from HUD.

**Details**

Provides list of MSA codes from HUD.

**Value**

A data table containing a list of MSA codes from HUD.

**Author(s)**

Paul Richardson

### Examples

```
## Not run:  
library(hudr)  
  
hud_key <- Sys.getenv("HUD_API_KEY")  
  
cbsa_codes <- get_hud_fmr_listmetros(hud_key = hud_key)  
  
## End(Not run)
```

---

`get_hud_fmr_liststates`

*Get HUD List of State Codes data.*

---

### Description

Provides list of state codes data from HUD.

### Usage

```
get_hud_fmr_liststates(hud_key = Sys.getenv("HUD_API_KEY"))
```

### Arguments

`hud_key` Character string indicating your API key from HUD.

### Details

Provides list of state codes data from HUD.

### Value

A data table containing a list of state codes from HUD.

### Author(s)

Paul Richardson

### Examples

```
## Not run:  
library(hudr)  
  
hud_key <- Sys.getenv("HUD_API_KEY")  
  
state_codes <- get_hud_fmr_liststates(hud_key = hud_key)  
  
## End(Not run)
```









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