

# Package: brpop (via r-universe)

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**Title** Brazilian Population Estimatives  
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## Contents

datusus_mun_female_pop . . . . .	2
datusus_mun_male_pop . . . . .	3
ibge_pop . . . . .	3

mun_female_pop_totals . . . . .	4
mun_male_pop_totals . . . . .	5
mun_pop_age . . . . .	5
mun_pop_totals . . . . .	6
mun_reg_saude . . . . .	6
mun_reg_saude_449 . . . . .	7
mun_sex_pop . . . . .	7
regsaude_female_pop . . . . .	8
regsaude_female_pop_totals . . . . .	8
regsaude_male_pop . . . . .	9
regsaude_male_pop_totals . . . . .	9
regsaude_pop_age . . . . .	10
regsaude_pop_totals . . . . .	11
regsaude_sex_pop . . . . .	11
ufrn_mun_female_pop . . . . .	12
ufrn_mun_male_pop . . . . .	13
uf_female_pop_totals . . . . .	13
uf_male_pop_totals . . . . .	14
uf_pop_age . . . . .	14
uf_pop_totals . . . . .	15
uf_sex_pop . . . . .	16

## Index 17

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datasus\_mun\_female\_pop

*Municipality yearly female population estimates per age group from 2000 to 2021*

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### Description

A dataset containing female population estimates for Brazilian municipalities per age groups from 2000 to 2021.

### Usage

```
datasus_mun_female_pop()
```

### Details

The estimates were computed by DataSUS (Brazilian Ministry of Health), manually downloaded from DataSUS website, and organized as a tibble.

**code\_muni** municipality 6 digits code

**year** year of the estimative

**age\_group** age group

**pop** population estimative

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datasus_mun_male_pop	<i>Municipality yearly male population estimates per age group from 2000 to 2021</i>
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### Description

A dataset containing male population estimates for Brazilian municipalities per age groups from 2000 to 2021.

### Usage

```
datasus_mun_male_pop()
```

### Details

The estimates were computed by DataSUS (Brazilian Ministry of Health), manually downloaded from DataSUS website, and organized as a tibble.

**code\_muni** municipality 6 digits code

**year** year of the estimative

**age\_group** age group

**pop** population estimative

---

ibge_pop	<i>Municipality population from IBGE estimates, Census and population inquiries from 2000 to 2024</i>
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### Description

A dataset containing total population estimates for Brazilian municipalities from IBGE estimates, Census and population inquiries. This dataset does not contain breakdowns by age groups or sex.

### Usage

```
ibge_pop()
```

### Details

The population data was downloaded from the IBGE's SIDRA service and IBGE's FTP server.

Population data for the years of 2000 and 2010 were obtained from Census, SIDRA table 202 (<https://sidra.ibge.gov.br/Tabela/202>).

Population data for the year of 2022 was obtained from Census, SIDRA table 9514 (<https://sidra.ibge.gov.br/Tabela/9514>).

Population data for the year of 2007 was obtained from Population Inquiry, SIDRA table 793 (<https://sidra.ibge.gov.br/Tabela/793>).

Population data for the years of 2001 to 2006, 2008, 2009, 2011 to 2021 were obtained from Population Inquiry, SIDRA table 6579 (<https://sidra.ibge.gov.br/Tabela/6579>), including update from 2024-06-24.

Population data for 2023 are the IBGE estimates sent to TCU (<https://www.ibge.gov.br/estatisticas/sociais/populacao/37734-relacao-da-populacao-dos-municipios-para-publicacao-no-tcu.html>). The values are equal to Census 2022.

Population data for 2024 are the IBGE estimates sent to DOU (<https://www.ibge.gov.br/estatisticas/sociais/populacao/9103-estimativas-de-populacao.html>).

**code\_muni** municipality 7 digits code

**year** year

**pop** population

---

mun\_female\_pop\_totals *Municipality yearly female population estimates totals*

---

## Description

This function provides a tibble containing female population estimates for Brazilian municipalities totals.

## Usage

```
mun_female_pop_totals(source = "datasus")
```

## Arguments

**source** character. `datasus` for Brazilian Health Ministry estimates, or `ufrn` for UFRN-DEM-LEPP estimates.

## Value

A tibble.

## See Also

[datasus\\_mun\\_female\\_pop](#), [ufrn\\_mun\\_female\\_pop](#).

---

mun\_male\_pop\_totals     *Municipality yearly male population estimates totals*

---

**Description**

This function provides a tibble containing male population estimates for Brazilian municipalities totals.

**Usage**

```
mun_male_pop_totals(source = "datasus")
```

**Arguments**

source                    character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_male\\_pop](#), [ufrn\\_mun\\_male\\_pop](#).

---

mun\_pop\_age                *Municipality yearly population estimates per age group*

---

**Description**

This function provides a tibble containing population estimates for Brazilian municipalities per age groups.

**Usage**

```
mun_pop_age(source = "datasus")
```

**Arguments**

source                    character. datasus for Brazilian Health Ministry estimates, ufrn for UFRN-DEM-LEPP estimates, avg for an average between both.

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_male\\_pop](#), [datasus\\_mun\\_female\\_pop](#), [ufrn\\_mun\\_male\\_pop](#), [ufrn\\_mun\\_female\\_pop](#).

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mun_pop_totals	<i>Municipality yearly population totals</i>
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---

**Description**

This function provides a tibble containing total population estimates for Brazilian municipalities.

**Usage**

```
mun_pop_totals(source = "datasus")
```

**Arguments**

source	character. <code>datasus</code> for Brazilian Health Ministry estimates (2000 to 2021), <code>ufrn</code> for UFRN-DEM-LEPP estimates (2010 to 2030), or <code>ibge</code> for IBGE estimates (2000 to 2022).
--------	---

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_male\\_pop](#), [datasus\\_mun\\_female\\_pop](#), [ufrn\\_mun\\_male\\_pop](#), [ufrn\\_mun\\_female\\_pop](#), [ibge\\_pop](#).

---

mun_reg_saude	<i>Municipality and health region code table</i>
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---

**Description**

A dataset containing municipality and health regions codes. #'

**Usage**

```
mun_reg_saude
```

**Format**

A tibble with 5,597 rows and 2 variables:

**code\_muni** municipality 6 digits code

**cod\_reg\_saude** health region 4 digits code

---

mun_reg_saude_449	<i>Municipality and health region (449) code table</i>
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---

**Description**

A dataset containing municipality and health regions codes, following the 449 units specification. #'

**Usage**

```
mun_reg_saude_449
```

**Format**

A tibble with 5,597 rows and 2 variables:

**code\_muni** municipality 6 digits code

**cod\_reg\_saude** health region 5 digits code

---

mun_sex_pop	<i>Municipality yearly population estimates per age group and sex</i>
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**Description**

This function binds municipality male and female estimates and includes a new variable called 'sex'.

**Usage**

```
mun_sex_pop(source = "datasus")
```

**Arguments**

**source** character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_male\\_pop](#), [datasus\\_mun\\_female\\_pop](#), [ufrn\\_mun\\_male\\_pop](#), [ufrn\\_mun\\_female\\_pop](#).

---

regsaude\_female\_pop    *Health region yearly female population estimates per age group*

---

**Description**

This function provides a tibble containing female population estimates for Brazilian health regions per age groups.

**Usage**

```
regsaude_female_pop(type = "standard", source = "datasus")
```

**Arguments**

type	character. 'standard' or 'reg_saude_449'
source	character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_female\\_pop](#), [ufrn\\_mun\\_female\\_pop](#).

---

regsaude\_female\_pop\_totals  
*Health region yearly female population estimates totals*

---

**Description**

This function provides a tibble containing female population estimates for Brazilian health regions totals.

**Usage**

```
regsaude_female_pop_totals(type = "standard", source = "datasus")
```

**Arguments**

type	character. 'standard' or 'reg_saude_449'
source	character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.



**Value**

A tibble.

**See Also**

[regsaude\\_female\\_pop](#).

---

regsaude_male_pop	<i>Health region yearly male population estimates per age group</i>
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---

**Description**

This function provides a tibble containing male population estimates for Brazilian health regions per age groups.

**Usage**

```
regsaude_male_pop(type = "standard", source = "datasus")
```

**Arguments**

type	character. 'standard' or 'reg_saude_449'
source	character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_male\\_pop](#), [ufrn\\_mun\\_male\\_pop](#).

---

regsaude_male_pop_totals	<i>Health region yearly male population estimates totals</i>
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---

**Description**

This function provides a tibble containing male population estimates for Brazilian health regions totals.

**Usage**

```
regsaude_male_pop_totals(type = "standard", source = "datasus")
```

**Arguments**

type	character. 'standard' or 'reg_saude_449'
source	character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[regsaude\\_male\\_pop](#).

---

regsaude_pop_age	<i>Health region yearly population estimates per age group</i>
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---

**Description**

This function provides a tibble containing population estimates for Brazilian health regions per age groups.

**Usage**

```
regsaude_pop_age(type = "standard", source = "datasus")
```

**Arguments**

type	character. 'standard' or 'reg_saude_449'
source	character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[regsaude\\_male\\_pop](#), [regsaude\\_female\\_pop](#).

---

regsaude\_pop\_totals     *Health region yearly total population estimates*

---

**Description**

This function provides a tibble containing total population estimates for Brazilian health regions.

**Usage**

```
regsaude_pop_totals(type = "standard", source = "datasus")
```

**Arguments**

type	character. 'standard' or 'reg_saude_449'
source	character. datasus for Brazilian Health Ministry estimates (2000 to 2021), ufrn for UFRN-DEM-LEPP estimates (2010 to 2030), or ibge for IBGE estimates (2000 to 2022).

**Value**

A tibble.

**See Also**

[regsaude\\_male\\_pop](#), [regsaude\\_female\\_pop](#), [ibge\\_pop](#).

---

regsaude\_sex\_pop     *Health regions yearly population estimates per age group and sex*

---

**Description**

This function binds UF male and female datasets (uf\_male\_pop and uf\_female\_pop), aggregates estimates by health regions and includes a new variable called 'sex'.

**Usage**

```
regsaude_sex_pop(type = "standard", source = "datasus")
```

**Arguments**

type	character. 'standard' or 'reg_saude_449'
source	character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[regsaude\\_male\\_pop](#), [regsaude\\_female\\_pop](#).

---

ufrn_mun_female_pop	<i>Municipality yearly female population estimates per age group, from 2010 to 2030</i>
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---

**Description**

A dataset containing male population estimates for Brazilian municipalities per age groups from 2010 to 2030.

**Usage**

```
ufrn_mun_female_pop()
```

**Details**

The estimates were computed by the LEPP laboratory from the Demography Department/UFRN.

**code\_muni** municipality 6 digits code

**year** year of the estimative

**age\_group** age group

**pop** population estimative

**References**

FREIRE, F.H.M.A; GONZAGA, M.R; QUEIROZ, B.L. Projeção populacional municipal com estimadores bayesianos, Brasil 2010 - 2030. In: Sawyer, D.O (coord.). *Seguridade Social Municipais. Projeto Brasil 3 Tempos*. Secretaria Especial de Assuntos Estratégicos da Presidência da República (SAE/SG/PR) , United Nations Development Programme, Brazil (UNDP) and International Policy Centre for Inclusive Growth. Brasília (IPC-IG), 2019.

---

ufrn\_mun\_male\_pop      *Municipality yearly male population estimates per age group, from 2010 to 2030*

---

### Description

A dataset containing male population estimates for Brazilian municipalities per age groups from 2010 to 2030.

### Usage

```
ufrn_mun_male_pop()
```

### Details

The estimates were computed by the LEPP laboratory from the Demography Department/UFRN.

**code\_muni** municipality 6 digits code

**year** year of the estimative

**age\_group** age group

**pop** population estimative

### References

FREIRE, F.H.M.A; GONZAGA, M.R; QUEIROZ, B.L. Projeção populacional municipal com estimadores bayesianos, Brasil 2010 - 2030. In: Sawyer, D.O (coord.). Seguridade Social Municipais. Projeto Brasil 3 Tempos. Secretaria Especial de Assuntos Estratégicos da Presidência da República (SAE/SG/PR) , United Nations Development Programme, Brazil (UNDP) and International Policy Centre for Inclusive Growth. Brasília (IPC-IG), 2019.

---

uf\_female\_pop\_totals      *UF yearly female population estimates totals*

---

### Description

This function provides a tibble containing female population estimates for Brazilian UFs ("Unidades Federativas") totals.

### Usage

```
uf_female_pop_totals(source = "datasus")
```

### Arguments

**source** character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_female\\_pop](#), [ufrn\\_mun\\_female\\_pop](#).

---

`uf_male_pop_totals`      *UF yearly male population estimates totals*

---

**Description**

This function provides a tibble containing male population estimates for Brazilian UFs ("Unidades Federativas") totals.

**Usage**

```
uf_male_pop_totals(source = "datasus")
```

**Arguments**

`source`                  character. `datasus` for Brazilian Health Ministry estimates, or `ufrn` for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_male\\_pop](#), [ufrn\\_mun\\_male\\_pop](#).

---

`uf_pop_age`                  *UF yearly population estimates per age group*

---

**Description**

This function provides a tibble containing population estimates for Brazilian UFs ("Unidades Federativas") per age groups.

**Usage**

```
uf_pop_age(source = "datasus")
```

**Arguments**

source character. datasus for Brazilian Health Ministry estimates, or ufrn for UFRN-DEM-LEPP estimates.

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_male\\_pop](#), [datasus\\_mun\\_female\\_pop](#), [ufrn\\_mun\\_male\\_pop](#), [ufrn\\_mun\\_female\\_pop](#).

---

uf_pop_totals	<i>UF yearly population totals</i>
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**Description**

This function provides a tibble containing total population estimates for Brazilian UFs ("Unidades Federativas") totals.

**Usage**

```
uf_pop_totals(source = "datasus")
```

**Arguments**

source character. datasus for Brazilian Health Ministry estimates (2000 to 2021), ufrn for UFRN-DEM-LEPP estimates (2010 to 2030), or ibge for IBGE estimates (2000 to 2022).

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_male\\_pop](#), [datasus\\_mun\\_female\\_pop](#), [ufrn\\_mun\\_male\\_pop](#), [ufrn\\_mun\\_female\\_pop](#), [ibge\\_pop](#).

---

uf_sex_pop	<i>UF yearly population estimates per age group and sex</i>
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---

**Description**

This function binds municipality male and female estimates and includes a new variable called 'sex'.

**Usage**

```
uf_sex_pop(source = "datasus")
```

**Arguments**

source	character. <code>datasus</code> for Brazilian Health Ministry estimates, or <code>ufrn</code> for UFRN-DEM-LEPP estimates.
--------	--

**Value**

A tibble.

**See Also**

[datasus\\_mun\\_male\\_pop](#), [datasus\\_mun\\_female\\_pop](#), [ufrn\\_mun\\_male\\_pop](#), [ufrn\\_mun\\_female\\_pop](#).



# Index

## \* datasets

mun\_reg\_saude, 6  
mun\_reg\_saude\_449, 7

datusus\_mun\_female\_pop, 2, 4, 6–8, 14–16  
datusus\_mun\_male\_pop, 3, 5–7, 9, 14–16

ibge\_pop, 3, 6, 11, 15

mun\_female\_pop\_totals, 4  
mun\_male\_pop\_totals, 5  
mun\_pop\_age, 5  
mun\_pop\_totals, 6  
mun\_reg\_saude, 6  
mun\_reg\_saude\_449, 7  
mun\_sex\_pop, 7

regsaude\_female\_pop, 8, 9–12  
regsaude\_female\_pop\_totals, 8  
regsaude\_male\_pop, 9, 10–12  
regsaude\_male\_pop\_totals, 9  
regsaude\_pop\_age, 10  
regsaude\_pop\_totals, 11  
regsaude\_sex\_pop, 11

uf\_female\_pop\_totals, 13  
uf\_male\_pop\_totals, 14  
uf\_pop\_age, 14  
uf\_pop\_totals, 15  
uf\_sex\_pop, 16  
ufrn\_mun\_female\_pop, 4, 6–8, 12, 14–16  
ufrn\_mun\_male\_pop, 5–7, 9, 13, 14–16