

# Package ‘befproj’

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**Type** Package

**Title** Makes a Local Population Projection

**Version** 0.1.1

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**Description** This is a sub national population projection model for calculating population development. The model uses a cohort component method. Further reading: Stanley K. Smith: A Practitioner's Guide to State and Local Population Projections. 2013. <[doi:10.1007/978-94-007-7551-0](https://doi.org/10.1007/978-94-007-7551-0)>.

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.0

**Imports** dplyr (>= 0.8.5)

**Depends** R (>= 2.10)

**NeedsCompilation** no

**Repository** CRAN

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`assump_data`*assumptions*

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**Description**

This is a Data Frame with assumptions about migrations rates, deaths and births.

**Usage**

```
data("assump_data")
```

**Format**

A data frame with 1111 observations on the following 14 variables.

`age` a numeric vector

`category` a factor with levels `asdr_men` `asdr_women` `asfr` `inmig.rates.men` `inmig.rates.women` `intermig.net.men` `intermig.net.women` `natpop.men` `natpop.women` `outmig.rates.men` `outmig.rates.women`

`ar_1` a numeric vector

`ar_2` a numeric vector

`ar_3` a numeric vector

`ar_4` a numeric vector

`ar_5` a numeric vector

`ar_6` a numeric vector

`ar_7` a numeric vector

`ar_8` a numeric vector

`ar_9` a numeric vector

`ar_10` a numeric vector

`ar_11` a numeric vector

`ar_12` a numeric vector

**Details**

This is a Data Frame that consists of assumptions and input to the population model. The Data Frame has 14 different variables under category: age specific death rates (`asdr`) for men and women, age specific fertility rates for women (`asfr`), domestic in migration and out migration rates for men and women, international in and out net migration for men and women, and the age specific national population.

**Source**

Umea kommun

**Examples**

```
data(assump_data)
str(assump_data)
```

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bef_components	<i>Makes a local population projection and produce results for population components</i>
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**Description**

Makes a local population projection and produce results for population components

**Usage**

```
bef_components(startpop, assumptions, YEAR)
```

**Arguments**

startpop	This is the start population
assumptions	This is a Data Frame with assumptions
YEAR	This is the year from which the forecast starts

**Value**

The output from [return](#)

**Examples**

```
bef_components(startpop_data,assump_data,2019)
```

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bef_proj	<i>Makes a local population projection and produce results for growth per year.</i>
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**Description**

Makes a local population projection and produce results for growth per year.

**Usage**

```
bef_proj(startpop, assumptions, YEAR)
```

**Arguments**

startpop	This is the start population
assumptions	This is a Data Frame with assumptions
YEAR	This is the year from which the forecast starts

**Value**

The output from [return](#)

**Examples**

```
bef_proj(startpop_data,assump_data,2019)
```

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bef_raw	<i>Makes a local population projection and produce results for age, sex and year</i>
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**Description**

Makes a local population projection and produce results for age, sex and year

**Usage**

```
bef_raw(startpop, assumptions, YEAR)
```

**Arguments**

startpop	This is the start population
assumptions	This is a Data Frame with assumptions
YEAR	This is the year from which the forecast starts

**Value**

The output from [return](#)

**Examples**

```
bef_raw(startpop_data,assump_data,2019)
```

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startpop_data	<i>Startpopulation</i>
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**Description**

This is a Data Frame with a startpopulation. The ages reaches from 0 to 100. The start year is from 2019.

**Usage**

```
data("startpop_data")
```

**Format**

A data frame with 101 observations on the following 3 variables.

age a numeric vector

women a numeric vector

men a numeric vector

**Source**

Statistiska centralbyran, SCB, Swedish statistics

**Examples**

```
data(startpop_data)  
str(startpop_data)
```

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