

Package ‘DeductiveR’

December 3, 2021

Type Package

Title Deductive Rational Method

Version 1.0.0

Date 2021-11-22

Description Apply the Deductive Rational Method to a monthly series of flow or precipitation data to fill in missing data. The method is as described in: Campos, D.F., (1984, ISBN:9686194444).

License GPL-3

Encoding UTF-8

RoxygenNote 7.1.1

Imports dplyr, reshape2, ggplot2, moments

Suggests rmarkdown, knitr

VignetteBuilder knitr

NeedsCompilation no

Author Alonso Arriagada [aut, cre]

Maintainer Alonso Arriagada <alonso.arriagada@usach.cl>

Repository CRAN

Date/Publication 2021-12-03 17:50:02 UTC

R topics documented:

DR	2
DR_plot	2
DR_stats	3
Index	4

DR	<i>Apply the Deductive Rational Method to a monthly series of flow or precipitation data to fill in missing data.</i>
----	---

Description

Apply the Deductive Rational Method to a monthly series of flow or precipitation data to fill in missing data.

Usage

DR(data)

Arguments

data	data frame with columns: date - year - month - day - station (Type date and numeric the rest)
------	---

Value

DR_final: data frame with monthly values that result from the application of the Deductive Rational Method

DR_plot	<i>Plot the result from the application of the Deductive Rational Method</i>
---------	--

Description

Plot the result from the application of the Deductive Rational Method

Usage

DR_plot(dr)

Arguments

dr	data frame from DR function
----	-----------------------------

Value

None

DR_stats	<i>Statistics for the result from the application of the Deductive Rational Method</i>
----------	--

Description

Statistics for the result from the application of the Deductive Rational Method

Usage

```
DR_stats(dr)
```

Arguments

dr data frame from DR function

Value

data_long_month: data frame with statistical summary of monthly value that result from the application of the Deductive Rational Method

Index

DR, [2](#)
DR_plot, [2](#)
DR_stats, [3](#)