# Package 'resampledata'

October 14, 2022

Type Package

| Cereals          |      |      |
|------------------|------|------|
| Challenger       | <br> | . 7  |
| ChiMarathonMen   | <br> | . 8  |
| corrExerciseA    | <br> | . 8  |
| corrExerciseB    | <br> | . 9  |
| Cuckoos          | <br> | . 9  |
| Diving2017       | <br> | . 10 |
| Fatalities       | <br> | . 10 |
| FishMercury      | <br> | . 11 |
| FlightDelays     | <br> | . 11 |
| Girls2004        | <br> | . 12 |
| Groceries        | <br> | . 12 |
| GSS2002          | <br> | . 13 |
| GSS2006          | <br> | . 13 |
| CeCream          | <br> | . 14 |
| LBoys            | <br> | . 14 |
| Illiteracy       | <br> | . 15 |
| Lottery          | <br> | . 15 |
| manatees         | <br> | . 16 |
| MathAnxiety      | <br> | . 16 |
| Maunaloa         | <br> | . 17 |
| MnGroundwater    | <br> | . 17 |
| MobileAds        | <br> | . 18 |
| Nasdaq           | <br> | . 18 |
| NBA1617          | <br> | . 19 |
| NCBirths2004     | <br> | . 19 |
| Olympics2012     | <br> | . 20 |
| Phillies2009     | <br> | . 20 |
| Pitchers2005     | <br> | . 21 |
| Quakes           | <br> | . 21 |
| Quetzal          | <br> | . 22 |
| RangersTwins2016 | <br> | . 22 |
| Reading          |      |      |
| Recidivism       | <br> |      |
| esampledata      | <br> | . 24 |
| Salaries         | <br> | . 24 |
| Sat2008          | <br> | . 25 |
| Service          | <br> | . 25 |
| Skateboard       | <br> | . 26 |
| Skating2010      | <br> | . 26 |
| Spruce           | <br> | . 27 |
| Starcraft        | <br> | . 27 |
| Fitanic          | <br> | . 28 |
| Turbine          | <br> | . 28 |
| ΓV               | <br> | . 29 |
| ΓΧBirths2004     | <br> | . 29 |
| Verizon          | <br> |      |
| Volleyball2009   | <br> | . 30 |

| Alelager | •                                 |  |      |     |     |     |   |    |      |     |     |    |    |    |     |     |    |   |     |     |     |      |     |     |    |  |  |  |  | 3  |  |
|----------|-----------------------------------|--|------|-----|-----|-----|---|----|------|-----|-----|----|----|----|-----|-----|----|---|-----|-----|-----|------|-----|-----|----|--|--|--|--|----|--|
| Index    | wafers<br>Walleye .<br>Watertable |  | <br> |     |     |     |   |    |      |     |     |    |    |    |     |     |    |   |     |     |     |      |     |     |    |  |  |  |  | 31 |  |
| Alela    | iger                              |  | (    | Cal | ori | ies | a | na | l ai | lca | ohe | ol | co | nı | ten | t f | or | a | les | s a | ına | l lo | ıge | ers | s. |  |  |  |  |    |  |

#### Description

A data set containing X. The variables are as follows:

#### Usage

Alelager

#### **Format**

A data frame with X rows and Y variables:

•

Bangladesh Bangladesh

#### Description

The Bangladesh data is provided solely for illustrative purposes and to enable statistical analysis. Full data are available from the British Geological Survey web site: http://www.bgs.ac.uk/arsenic/bphase2/datadownload.htm.

#### Usage

Bangladesh

#### **Format**

A data frame with X rows and Y variables:

•

#### **Details**

A data set containing X. The variables are as follows:

4 Beerwings

Batters2005

Batters2005

# Description

A data set containing X. The variables are as follows:

#### Usage

Batters2005

#### **Format**

A data frame with X rows and Y variables:

•

Beerwings

Beer and hot wings consumption.

# Description

A data set containing X. The variables are as follows:

# Usage

Beerwings

#### **Format**

A data frame with X rows and Y variables:

BookPrices 5

BookPrices Price of hardcover textbooks from mathematics and the natural sciences and the social sciences.

# Description

A data set containing X. The variables are as follows:

#### Usage

BookPrices

#### **Format**

A data frame with X rows and Y variables:

•

Bushmeat Bushmeat in Ghana.

#### Description

A data set containing X. The variables are as follows:

# Usage

Bushmeat

#### **Format**

A data frame with X rows and Y variables:

6 Cameras

Bushmeat2

Bushmeat in Ghana.

# Description

A data set containing X. The variables are as follows:

#### Usage

Bushmeat2

#### **Format**

A data frame with X rows and Y variables:

•

Cameras

Prices of a sample of point-and-shoot digital cameras.

# Description

A data set containing X. The variables are as follows:

## Usage

Cameras

#### **Format**

A data frame with X rows and Y variables:

Cereals 7

Cereals

Information on various cereals.

# Description

A data set containing X. The variables are as follows:

# Usage

Cereals

#### **Format**

A data frame with X rows and Y variables:

•

Challenger

Data on 23 Challenger flights.

# Description

A data set containing X. The variables are as follows:

# Usage

Challenger

#### **Format**

A data frame with X rows and Y variables:

8 corrExerciseA

ChiMarathonMen

Data on Marathon times.

# Description

A data set containing X. The variables are as follows:

#### Usage

ChiMarathonMen

#### **Format**

A data frame with X rows and Y variables:

•

corrExerciseA

Correlation Exercise A p.294

# Description

A data set containing X. The variables are as follows:

#### Usage

corrExerciseA

#### **Format**

A data frame with X rows and Y variables:

corrExerciseB 9

corrExerciseB

Correlation Exercise B p.294

# Description

A data set containing X. The variables are as follows:

# Usage

corrExerciseB

#### **Format**

A data frame with X rows and Y variables:

•

Cuckoos

Cuckoos

# Description

A data set containing X. The variables are as follows:

## Usage

Cuckoos

#### **Format**

A data frame with X rows and Y variables:

10 Fatalities

Diving2017

Diving times in 2017

# Description

A data set containing X. The variables are as follows:

#### Usage

Diving2017

#### **Format**

A data frame with X rows and Y variables:

•

Fatalities

Random sample of 100 driver fatalities in 2009 in Pennsylvania.

# Description

A data set containing X. The variables are as follows:

# Usage

Fatalities

#### **Format**

A data frame with X rows and Y variables:

FishMercury 11

| FishMercury | Mercury levels (parts per million) for 30 fish caught in lakes in Minnesota. |
|-------------|--|
|             |  |

# Description

A data set containing X. The variables are as follows:

# Usage

FishMercury

#### **Format**

A data frame with X rows and Y variables:

•

| FlightDelays | Information on 4029 United and American airlines departures from |
|--------------|--|
|              | LGA during May and June 2009.                                    |

# Description

A data set containing X. The variables are as follows:

# Usage

FlightDelays

#### **Format**

A data frame with X rows and Y variables:

12 Groceries

Girls2004 Random sample of 40 baby girls born in Alaska and 40 baby girls born in Wyoming.

# Description

A data set containing X. The variables are as follows:

# Usage

Girls2004

#### **Format**

A data frame with X rows and Y variables:

•

Groceries

Groceries.

# Description

A data set containing X. The variables are as follows:

## Usage

Groceries

## **Format**

A data frame with X rows and Y variables:

GSS2002

GSS2002

Results from 2002 General Society Survey.

# Description

A data set containing X. The variables are as follows:

# Usage

GSS2002

#### **Format**

A data frame with X rows and Y variables:

•

GSS2006

Results from 2006 General Society Survey.

# Description

A data set containing X. The variables are as follows:

#### Usage

GSS2006

#### **Format**

A data frame with X rows and Y variables:

ILBoys

IceCream Calorie information for a sample of brands of chocolate and vanilla ice cream.

# Description

A data set containing X. The variables are as follows:

#### Usage

IceCream

#### **Format**

A data frame with X rows and Y variables:

•

ILBoys IL Boys

# Description

A data set containing X. The variables are as follows:

## Usage

ILBoys

## **Format**

A data frame with X rows and Y variables:

Illiteracy 15

| Illiteracy | Data on a sample of countries where female illiteracy is more that 5 |
|------------|--|
|            | percent.   |

# Description

A data set containing X. The variables are as follows:

# Usage

Illiteracy

#### **Format**

A data frame with X rows and Y variables:

•

Lottery Winning numbers for the daily games from May 5, 2010 through August 15, 2010.

#### Description

A data set containing X. The variables are as follows:

# Usage

Lottery

#### **Format**

A data frame with X rows and Y variables:

16 MathAnxiety

manatees manatees

# Description

A data set containing X. The variables are as follows:

#### Usage

manatees

#### **Format**

A data frame with X rows and Y variables:

•

MathAnxiety

Math Anxiety

# Description

A data set containing X. The variables are as follows:

# Usage

MathAnxiety

#### **Format**

A data frame with X rows and Y variables:

Maunaloa 17

| Maunaloa Data on average CO2 levels (ppm) for the month of May from 1990 to 2010. | Maunaloa | Data on average CO2 levels (ppm) for the month of May from 1990 to 2010. |
|---|----------|--|
|---|----------|--|

# Description

A data set containing X. The variables are as follows:

# Usage

Maunaloa

#### **Format**

A data frame with X rows and Y variables:

•

| MnGroundwater | Measurements on water quality of 895 randomly selected wells in Min- |
|---------------|--|
|               | nesota.  |

# Description

A data set containing X. The variables are as follows:

# Usage

MnGroundwater

#### **Format**

A data frame with X rows and Y variables:

Nasdaq Nasdaq

MobileAds

Mobile Ads.

# Description

A data set containing X. The variables are as follows:

#### Usage

MobileAds

#### **Format**

A data frame with X rows and Y variables:

•

Nasdaq

NASDAQ Data.

# Description

A data set containing X. The variables are as follows:

# Usage

Nasdaq

#### **Format**

A data frame with X rows and Y variables:

NBA1617

NBA1617

NBA 2016-2017 data.

#### Description

A data set containing X. The variables are as follows:

#### Usage

NBA1617

#### **Format**

A data frame with X rows and Y variables:

•

NCBirths2004

Random sample of 1009 babies born in North Carolina during 2004.

# Description

A data set containing X. The variables are as follows:

## Usage

NCBirths2004

#### **Format**

A data frame with X rows and Y variables:

20 Phillies 2009

Olympics2012

2012 Olympics Data.

# Description

A data set containing X. The variables are as follows:

#### Usage

Olympics2012

#### **Format**

A data frame with X rows and Y variables:

•

Phillies2009

Data from the 2009 season for the baseball team of the Philadelphia Phillies.

# Description

A data set containing X. The variables are as follows:

#### Usage

Phillies2009

## **Format**

A data frame with X rows and Y variables:

Pitchers2005

Pitchers2005

Pitchers2005

#### Description

A data set containing X. The variables are as follows:

#### Usage

Pitchers2005

#### **Format**

A data frame with X rows and Y variables:

•

Quakes

Time between earthquakes (in days).

# Description

A data set containing X. The variables are as follows:

#### Usage

Quakes

#### **Format**

A data frame with X rows and Y variables:

22 RangersTwins2016

Quetzal. Quetzal.

# Description

A data set containing X. The variables are as follows:

#### Usage

Quetzal

#### **Format**

A data frame with X rows and Y variables:

•

RangersTwins2016

Rangers/Twins 2016 Baseball Data.

# Description

A data set containing X. The variables are as follows:

# Usage

RangersTwins2016

#### **Format**

A data frame with X rows and Y variables:

Reading 23

Reading

Children's reading abilities.

# Description

A data set containing X. The variables are as follows:

# Usage

Reading

#### **Format**

A data frame with X rows and Y variables:

•

Recidivism

Recidivism data.

# Description

A data set containing X. The variables are as follows:

## Usage

Recidivism

#### **Format**

A data frame with X rows and Y variables:

24 Salaries

| resampledata | resampledata: Data Sets for Mathematical Statistics with Resampling in ${\it R}$ |
|--------------|--|

#### **Description**

Package of data sets from "Mathematical Statistics with Resampling in R" (1st Ed. 2011, 2nd Ed. 2018) by Laura Chihara and Tim Hesterberg. Note the Bangladesh data is provided solely for illustrative purposes and to enable statistical analysis. Full data are available from the British Geological Survey web site <a href="http://www.bgs.ac.uk/arsenic/bangladesh/">http://www.bgs.ac.uk/arsenic/bangladesh/</a>.

#### **Data sets**

Type data(package="resampledata") to view all datasets.

#### References

Hesterberg, Tim (2014), What Teachers Should Know about the Bootstrap: Resampling in the Undergraduate Statistics Curriculum, http://arxiv.org/abs/1411.5279.

Chihara, Laura M., Hesterberg, Tim C. (1st Ed. 2011, 2nd Ed. 2018). Mathematical Statistics with Resampling and R. Hoboken, NJ: John Wiley & Sons.

#### **Examples**

library(resampledata)
data(FlightDelays)

| Salaries |
|----------|
|----------|

#### **Description**

A data set containing X. The variables are as follows:

#### Usage

Salaries

#### **Format**

A data frame with X rows and Y variables:

Sat2008 25

Sat2008 Sat2008

#### Description

A data set containing X. The variables are as follows:

#### Usage

Sat2008

#### **Format**

A data frame with X rows and Y variables:

•

Service

Service times (in minutes) for 174 customers at a college snack bar.

# Description

A data set containing X. The variables are as follows:

## Usage

Service

#### **Format**

A data frame with X rows and Y variables:

26 *Skating2010* 

Skateboard

Skateboarding data

#### Description

A data set containing X. The variables are as follows:

#### Usage

Skateboard

#### **Format**

A data frame with X rows and Y variables:

•

Skating2010

Scores from the short program and free skate for men's figure skating in the 2010 Olympics.

# Description

A data set containing X. The variables are as follows:

#### Usage

Skating2010

#### **Format**

A data frame with X rows and Y variables:

Spruce 27

Spruce

Study of factors affecting the growth of the black spruce.

# Description

A data set containing X. The variables are as follows:

# Usage

Spruce

#### **Format**

A data frame with X rows and Y variables:

•

Starcraft

Starcraft

# Description

A data set containing X. The variables are as follows:

## Usage

Starcraft

#### **Format**

A data frame with X rows and Y variables:

28 Turbine

Titanic

Data on male passengers on the Titanic.

# Description

A data set containing X. The variables are as follows:

# Usage

Titanic

#### **Format**

A data frame with X rows and Y variables:

•

Turbine

Wind Speeds (m/s) from Carleton College Turbine.

# Description

A data set containing X. The variables are as follows:

# Usage

Turbine

#### **Format**

A data frame with X rows and Y variables:

TV 29

TV TV

# Description

A data set containing X. The variables are as follows:

#### Usage

ΤV

#### **Format**

A data frame with X rows and Y variables:

TXBirths2004

Random sample of 1587 babies born in Texas in 2004.

# Description

A data set containing X. The variables are as follows:

# Usage

TXBirths2004

#### **Format**

A data frame with X rows and Y variables:

Volleyball2009

Verizon

Random sample of repair times for 1664 ILEC and 23 CLEC customers.

# Description

A data set containing X. The variables are as follows:

# Usage

Verizon

#### **Format**

A data frame with X rows and Y variables:

•

Volleyball2009

Volleyball2009

# Description

A data set containing X. The variables are as follows:

#### Usage

Volleyball2009

## **Format**

A data frame with X rows and Y variables:

wafers 31

wafers Wafers

# Description

A data set containing X. The variables are as follows:

#### Usage

wafers

#### **Format**

A data frame with X rows and Y variables:

•

Walleye Length and weight measurements for a sample of 60 walleye caught in Minnesota lakes.

# Description

A data set containing X. The variables are as follows:

#### Usage

Walleye

#### **Format**

A data frame with X rows and Y variables:

32 Watertable

|--|

# Description

A data set containing X. The variables are as follows:

# Usage

Watertable

#### **Format**

A data frame with X rows and Y variables:

# **Index**

| * datasets           | Quetzal, 22                     |
|----------------------|---------------------------------|
| Alelager, 3          | RangersTwins2016, 22            |
| Bangladesh, 3        | Reading, 23                     |
| Batters2005, 4       | Recidivism, 23                  |
| Beerwings, 4         | Salaries, 24                    |
| BookPrices, 5        | Sat2008, 25                     |
| Bushmeat, 5          | Service, 25                     |
| Bushmeat2, 6         | Skateboard, 26                  |
| Cameras, 6           | Skating2010, 26                 |
| Cereals, 7           | Spruce, 27                      |
| Challenger, 7        | Starcraft, 27                   |
| ChiMarathonMen, 8    | Titanic, 28                     |
| corrExerciseA, $8$   | Turbine, 28                     |
| corrExerciseB,9      | TV, 29                          |
| Cuckoos, 9           | TXBirths2004, 29<br>Verizon, 30 |
| Diving2017, 10       | Volleyball2009, 30              |
| Fatalities, 10       | wafers, 31                      |
| FishMercury, 11      | Walleye, 31                     |
| FlightDelays, 11     | Watertable, 32                  |
| Girls2004, <u>12</u> | water table, 32                 |
| Groceries, 12        | Alelager, 3                     |
| GSS2002, 13          | 2 2 3 2 7 2                     |
| GSS2006, 13          | Bangladesh, 3, 24               |
| IceCream, 14         | Batters2005,4                   |
| ILBoys, 14           | Beerwings, 4                    |
| Illiteracy, 15       | BookPrices, 5                   |
| Lottery, 15          | Bushmeat, 5                     |
| manatees, 16         | Bushmeat2, 6                    |
| MathAnxiety, 16      |                                 |
| Maunaloa, 17         | Cameras, 6                      |
| MnGroundwater, 17    | Cereals, 7                      |
| MobileAds, 18        | Challenger, 7                   |
| Nasdaq, 18           | ChiMarathonMen, 8               |
| NBA1617, 19          | corrExerciseA, 8                |
| NCBirths2004, 19     | corrExerciseB, 9                |
| Olympics2012, 20     | Cuckoos, 9                      |
| Phillies2009, 20     | Diving2017, 10                  |
| Pitchers2005, 21     |                                 |
| Quakes, 21           | Fatalities, 10                  |
|                      |                                 |

34 INDEX

| FishMercury, 11<br>FlightDelays, 11  | Verizon, 30<br>Volleyball2009, 30           |
|--|---|
| Girls2004, 12<br>Groceries, 12<br>GSS2002, 13<br>GSS2006, 13   | wafers, 31<br>Walleye, 31<br>Watertable, 32 |
| IceCream, 14 ILBoys, 14 Illiteracy, 15   |   |
| Lottery, 15  |   |
| manatees, 16 MathAnxiety, 16 Maunaloa, 17 MnGroundwater, 17 MobileAds, 18                                |   |
| Nasdaq, 18<br>NBA1617, 19<br>NCBirths2004, 19  |   |
| Olympics2012, 20   |   |
| Phillies2009, 20<br>Pitchers2005, 21   |   |
| Quakes, 21<br>Quetzal, 22  |   |
| RangersTwins2016, 22 Reading, 23 Recidivism, 23 resampledata, 24 resampledata-package (resampledata), 24 |   |
| Salaries, 24 Sat2008, 25 Service, 25 Skateboard, 26 Skating2010, 26 Spruce, 27 Starcraft, 27             |   |
| Titanic, 28 Turbine, 28 TV, 29 TXBirths2004, 29  |   |