

Package ‘agridatasets’

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Type Package

Title A Comprehensive Collection of Agricultural and Agronomic Datasets

Version 0.1.0

Maintainer Renzo Caceres Rossi <arenzocaceresrossi@gmail.com>

Description

Offers a rich and diverse collection of datasets focused on agriculture, agronomy, animal science, and related fields. The package includes experimental, observational, and field-trial data on crops such as rice, wheat, corn, soybean, cotton, coffee, avocado, and orange, as well as forestry species including bamboo, eucalyptus, and timber. Datasets cover plant breeding and genetics, factorial and randomized block experiments, herbicide and insecticide efficacy trials, pest and disease infestation, soil characteristics and land suitability, plant growth regulators, seed germination, and crop yield modeling. Additional datasets address animal science topics such as cattle insemination and conception, pig and broiler growth, lamb births, and toxicology studies on aquatic and non-target species. Data sources include peer-reviewed agronomic studies, uniformity and Latin square field trials, glasshouse experiments, and international agricultural surveys. Designed for agronomists, researchers, plant and animal scientists, data scientists, and students, this package facilitates exploratory data analysis, statistical modeling, and hypothesis testing in agricultural and biological sciences.

License GPL-3

Language en

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<https://lightbluetitan.github.io/agridatasets/>

BugReports <https://github.com/lightbluetitan/agridatasets/issues>

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Author Renzo Caceres Rossi [aut, cre] (ORCID:
<https://orcid.org/0009-0005-0744-854X>)
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agridatasets

agridatasets: A Comprehensive Collection of Agricultural and Agronomic Datasets

Description

This package provides a diverse collection of datasets focused on agriculture, agronomy, animal science, and related fields. The package includes experimental, observational, and field-trial data on crops such as rice, wheat, corn, soybean, cotton, coffee, avocado, and orange, as well as forestry species including bamboo, eucalyptus, and timber.

Details

agridatasets: A Comprehensive Collection of Agricultural and Agronomic Datasets

A Comprehensive Collection of Agricultural and Agronomic Datasets.

Author(s)

Maintainer: Renzo Caceres Rossi <arenzocaceresrossi@gmail.com>

See Also

Useful links:

- <https://github.com/lightbluetitan/agridatasets>

alfalfa_soil

Alfalfa Soil Requirement for Land Evaluation

Description

This dataset, alfalfa_soil, is a data frame containing alfalfa soil requirement information for land evaluation. It includes codes for soil parameters together with values across suitability classes and weights.

Usage

```
data(alfalfa_soil)
```

Format

A data frame with 12 observations and 8 variables:

code Character vector indicating the soil parameter code
s3_a Character vector indicating the s3_a value
s2_a Character vector indicating the s2_a value
s1_a Character vector indicating the s1_a value
s1_b Character vector indicating the s1_b value
s2_b Character vector indicating the s2_b value
s3_b Character vector indicating the s3_b value
wt Character vector indicating the weight

Details

The dataset name has been kept as 'alfalfa_soil' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the ALUES package version 0.2.1

apple_canker

Apple Canker Infestation of Apple Shoots

Description

This dataset, apple_canker, is a data frame containing apple canker infestation data across apple cultivars and inoculum levels. It includes information on inoculum level, cultivar, block, number infested, and total number of shoots.

Usage

```
data(apple_canker)
```

Format

A data frame with 36 observations and 5 variables:

inoculum Integer vector indicating the inoculum level
gen Factor w/ 3 levels indicating the cultivar
block Factor w/ 4 levels indicating the block
y Integer vector indicating the number of infested shoots
n Integer vector indicating the total number of shoots

Details

The dataset name has been kept as 'apple_canker' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

apple_uniformity	<i>Uniformity Trial in Apple</i>
------------------	----------------------------------

Description

This dataset, apple_uniformity, is a data frame containing apple yield data from a uniformity trial experiment. It includes information on row, column, and yield.

Usage

```
data(apple_uniformity)
```

Format

A data frame with 198 observations and 3 variables:

row Integer vector indicating the row

col Integer vector indicating the column

yield Integer vector indicating the yield

Details

The dataset name has been kept as 'apple_uniformity' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

arabica_soil*Arabica Coffee Soil Requirement for Land Evaluation*

Description

This dataset, arabica_soil, is a data frame containing arabica coffee soil requirement information for land evaluation. It includes codes for soil parameters together with values across suitability classes and weights.

Usage

```
data(arabica_soil)
```

Format

A data frame with 11 observations and 8 variables:

code Character vector indicating the soil parameter code

s3_a Character vector indicating the s3_a value

s2_a Character vector indicating the s2_a value

s1_a Character vector indicating the s1_a value

s1_b Character vector indicating the s1_b value

s2_b Character vector indicating the s2_b value

s3_b Character vector indicating the s3_b value

wts Character vector indicating the weight

Details

The dataset name has been kept as 'arabica_soil' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the ALUES package version 0.2.1

`arabica_temp`*Arabica Coffee Temp Requirement for Land Evaluation*

Description

This dataset, `arabica_temp`, is a data frame containing arabica coffee temperature requirement information for land evaluation. It includes codes for temperature parameters together with values across suitability classes and weights.

Usage

```
data(arabica_temp)
```

Format

A data frame with 3 observations and 8 variables:

code Character vector indicating the temperature parameter code

s3_a Character vector indicating the s3_a value

s2_a Character vector indicating the s2_a value

s1_a Character vector indicating the s1_a value

s1_b Character vector indicating the s1_b value

s2_b Character vector indicating the s2_b value

s3_b Character vector indicating the s3_b value

wts Character vector indicating the weight

Details

The dataset name has been kept as 'arabica_temp' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `ALUES` package version 0.2.1

arabica_terrain	<i>Arabica Coffee Terrain Requirement for Land Evaluation</i>
-----------------	---

Description

This dataset, `arabica_terrain`, is a data frame containing arabica coffee terrain requirement information for land evaluation. It includes codes for terrain parameters together with values across suitability classes and weights.

Usage

```
data(arabica_terrain)
```

Format

A data frame with 6 observations and 8 variables:

code Character vector indicating the terrain parameter code

s3_a Character vector indicating the s3_a value

s2_a Character vector indicating the s2_a value

s1_a Character vector indicating the s1_a value

s1_b Character vector indicating the s1_b value

s2_b Character vector indicating the s2_b value

s3_b Character vector indicating the s3_b value

wts Character vector indicating the weight

Details

The dataset name has been kept as 'arabica_terrain' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `ALUES` package version 0.2.1

`arabica_water`*Arabica Coffee Water Requirement for Land Evaluation*

Description

This dataset, `arabica_water`, is a data frame containing arabica coffee water requirement information for land evaluation. It includes codes for water-related parameters together with values across suitability classes and weights.

Usage

```
data(arabica_water)
```

Format

A data frame with 4 observations and 8 variables:

code Character vector indicating the water-related parameter code

s3_a Character vector indicating the s3_a value

s2_a Character vector indicating the s2_a value

s1_a Character vector indicating the s1_a value

s1_b Character vector indicating the s1_b value

s2_b Character vector indicating the s2_b value

s3_b Character vector indicating the s3_b value

wts Character vector indicating the weight

Details

The dataset name has been kept as `'arabica_water'` to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `ALUES` package version 0.2.1

avocado_us_sale*Hass Avocado Weekly US Sales*

Description

This dataset, `avocado_us_sale`, is a data frame containing weekly Hass avocado sales data in the US. It includes information on week ending date, type, average selling price, total bulk and bags units, PLU 4046 units, PLU 4225 units, PLU 4770 units, total bagged units, small bagged units, large bagged units, and extra-large bagged units.

Usage

```
data(avocado_us_sale)
```

Format

A data frame with 810 observations and 11 variables:

week_ending Date vector indicating the week ending date

type Character vector indicating the type

avg_selling_price Numeric vector indicating the average selling price

total_bulk_and_bags_units Numeric vector indicating the total bulk and bags units

plu4046_units Numeric vector indicating the PLU 4046 units

plu4225_units Numeric vector indicating the PLU 4225 units

plu4770_units Numeric vector indicating the PLU 4770 units

total_bagged_units Numeric vector indicating the total bagged units

sml_bagged_units Numeric vector indicating the small bagged units

lrg_bagged_units Numeric vector indicating the large bagged units

xlrg_bagged_units Numeric vector indicating the extra-large bagged units

Details

The dataset name has been kept as `'avocado_us_sale'` to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `avocado` package version 0.2.0

bamboo_growth	<i>Bamboo Growth by Geographic Location</i>
---------------	---

Description

This dataset, `bamboo_growth`, is a data frame containing observations on bamboo growth collected from different geographic locations. It includes information on sampling compartments, locality blocks, transect numbers, and counts of old and new bamboo shoots.

Usage

```
data(bamboo_growth)
```

Format

A data frame with 595 observations and 5 variables:

Compartment Integer vector indicating the sampling compartment

Locality_Block Integer vector indicating the locality block

Transect_Number Integer vector indicating the transect number

Old_Shoots Integer vector indicating the number of old bamboo shoots

New_Shoots Integer vector indicating the number of new bamboo shoots

Details

The dataset name has been kept as 'bamboo_growth' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `gpk` package version 1.0

biological_control	<i>Biological Pest Control</i>
--------------------	--------------------------------

Description

This dataset, `biological_control`, is a data frame containing measurements related to biological pest control experiments. In a study of the effectiveness of biological control of the exotic weed tansy ragwort, researchers manipulated the exposure to the ragwort flea beetle on 15 plots that had been planted with a high density of ragwort.

Usage

```
data(biological_control)
```

Format

A data frame with 15 observations and 2 variables:

Load Numeric vector indicating the flea beetle load (beetles/gram of ragwort dry mass)

Mass Numeric vector indicating the average dry mass of ragwort remaining (grams/plant)

Details

The dataset name has been kept as 'biological_control' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the Sleuth3 package version 1.0-6

bird_grazing	<i>Bird Abundance in Grazing Areas</i>
--------------	--

Description

This dataset, bird_grazing, is a data frame containing the density of understorey birds at a series of sites in two areas either side of a stockproof fence. It includes information on time period, grazing area, and bird count.

Usage

```
data(bird_grazing)
```

Format

A data frame with 62 observations and 3 variables:

When Factor w/ 2 levels indicating the time period

Grazed Factor w/ 2 levels indicating the grazing area

Birds Integer vector indicating the bird count

Details

The dataset name has been kept as 'bird_grazing' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the GLMsData package version 1.4

blackgrass_herbicide	<i>Herbicide Efficacy</i>
----------------------	---------------------------

Description

This dataset, `blackgrass_herbicide`, is a data frame containing data from a factorial experiment conducted to evaluate the efficacy of three herbicides across nine different populations of black-grass. It includes information on plot identifier, replicate, pot, population, type, herbicide, and fresh weight.

Usage

```
data(blackgrass_herbicide)
```

Format

A data frame with 135 observations and 7 variables:

ID Factor w/ 135 levels indicating the plot identifier

Rep Factor w/ 5 levels indicating the replicate

DPot Factor w/ 27 levels indicating the pot

Population Factor w/ 9 levels indicating the black-grass population

Type Factor w/ 2 levels indicating the type

Herbicide Factor w/ 3 levels indicating the herbicide

Fwt Numeric vector indicating the fresh weight

Details

The dataset name has been kept as `'blackgrass_herbicide'` to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `smbdata` package version 0.2.0

black_duck_survival	<i>Survival of Black Ducks</i>
---------------------	--------------------------------

Description

This dataset, `black_duck_survival`, is a data frame containing survival data on black ducks (*Anas rubripes*) followed by the US Fish and Wildlife Service. It includes information on duck identifier, time, status, age, weight, and length.

Usage

```
data(black_duck_survival)
```

Format

A data frame with 50 observations and 6 variables:

duck Integer vector indicating the duck identifier

time Integer vector indicating the time

status Integer vector indicating the status

age Integer vector indicating the age

weight Integer vector indicating the weight

length Integer vector indicating the length

Details

The dataset name has been kept as 'black_duck_survival' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `collett` package version 0.1.2

broiler_growth	<i>Broiler Chicken Daily Measurements</i>
----------------	---

Description

This dataset, `broiler_growth`, is a data frame containing daily weight, feed, and egg measurements for a broiler chicken. It includes information on body weight, target body weight, average daily feed intake, average daily gain, egg weight, and age.

Usage

```
data(broiler_growth)
```

Format

A data frame with 59 observations and 6 variables:

bw Integer vector indicating the body weight
targetbw Integer vector indicating the target body weight
adfi Numeric vector indicating the average daily feed intake
adg Numeric vector indicating the average daily gain
eggwt Numeric vector indicating the egg weight
age Integer vector indicating the age

Details

The dataset name has been kept as 'broiler_growth' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

budworm_pyrethroid	<i>Insecticide Doses and Tobacco Budworm</i>
--------------------	--

Description

This dataset, budworm_pyrethroid, is a data frame containing the number of tobacco budworms dying at various doses of pyrethroid. It includes information on number killed, total number of budworms, dose, and gender.

Usage

```
data(budworm_pyrethroid)
```

Format

A data frame with 12 observations and 4 variables:

Killed Integer vector indicating the number killed
Number Integer vector indicating the total number of budworms
Dose Integer vector indicating the dose
Gender Factor w/ 2 levels indicating the gender

Details

The dataset name has been kept as 'budworm_pyrethroid' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the GLMsData package version 1.4

`carrot_fly_infestation`*Carrot Fly Infestation of Carrots*

Description

This dataset, `carrot_fly_infestation`, is a data frame containing carrot fly infestation data across carrot genotypes and treatments. It includes information on treatment, genotype, block, total number of plants, and number of infested plants.

Usage

```
data(carrot_fly_infestation)
```

Format

A data frame with 96 observations and 5 variables:

trt Factor w/ 2 levels indicating the treatment

gen Factor w/ 16 levels indicating the genotype

block Factor w/ 3 levels indicating the block

n Integer vector indicating the total number of plants

y Integer vector indicating the number of infested plants

Details

The dataset name has been kept as 'carrot_fly_infestation' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

carrot_insecticide	<i>Insecticide Treatments for Carrot Fly Larvae</i>
--------------------	---

Description

This dataset, carrot_insecticide, is a data frame containing carrot fly damage data for different insecticide treatments and depths. It includes information on treatment, insecticide, depth, replicate, number of damaged carrots, and total number of carrots.

Usage

```
data(carrot_insecticide)
```

Format

A data frame with 36 observations and 6 variables:

treatment Factor w/ 11 levels indicating the treatment

insecticide Factor w/ 3 levels indicating the insecticide

depth Numeric vector indicating the depth

rep Factor w/ 3 levels indicating the replicate

damaged Integer vector indicating the number of damaged carrots

total Integer vector indicating the total number of carrots

Details

The dataset name has been kept as 'carrot_insecticide' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

cattle_butterfat	<i>Butterfat and Dairy Cattle</i>
------------------	-----------------------------------

Description

This dataset, cattle_butterfat, is a data frame containing the average butterfat content for dairy cattle. It includes information on butterfat content, breed, and age.

Usage

```
data(cattle_butterfat)
```

Format

A data frame with 100 observations and 3 variables:

Butterfat Numeric vector indicating the butterfat content

Breed Factor w/ 5 levels indicating the breed

Age Factor w/ 2 levels indicating the age

Details

The dataset name has been kept as 'cattle_butterfat' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the GLMsData package version 1.4

cauliflower_growth	<i>Leaves for Cauliflower Plants at Different Times</i>
--------------------	---

Description

This dataset, cauliflower_growth, is a data frame containing cauliflower leaf growth data across different growing times. It includes information on year, degree days, and number of leaves.

Usage

```
data(cauliflower_growth)
```

Format

A data frame with 14 observations and 3 variables:

year Integer vector indicating the year

degdays Numeric vector indicating the degree days

leaves Integer vector indicating the number of leaves

Details

The dataset name has been kept as 'cauliflower_growth' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

coffee_composition	<i>Arabica and Robusta Chemical Composition Samples</i>
--------------------	---

Description

This dataset, `coffee_composition`, is a data frame containing chemical composition samples of Arabica and Robusta coffee. It includes information on variety, country, water, bean weight, extract yield, pH value, free acid, mineral content, fat, caffeine, trigonelline, chlorogenic acid, neochlorogenic acid, and isochlorogenic acid.

Usage

```
data(coffee_composition)
```

Format

A data frame with 43 observations and 14 variables:

Variety Factor w/ 2 levels indicating the coffee variety

Country Factor w/ 29 levels indicating the country

Water Numeric vector indicating the water content

Bean Weight Numeric vector indicating the bean weight

Extract Yield Numeric vector indicating the extract yield

pH Value Numeric vector indicating the pH value

Free Acid Numeric vector indicating the free acid content

Mineral Content Numeric vector indicating the mineral content

Fat Numeric vector indicating the fat content

Caffeine Numeric vector indicating the caffeine content

Trigonelline Numeric vector indicating the trigonelline content

Chlorogenic Acid Numeric vector indicating the chlorogenic acid content

Neochlorogenic Acid Numeric vector indicating the neochlorogenic acid content

Isochlorogenic Acid Numeric vector indicating the isochlorogenic acid content

Details

The dataset name has been kept as `'coffee_composition'` to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the IMIFA package version 2.2.0

coffee_production	<i>World Coffee Production 2016 - 2017</i>
-------------------	--

Description

This dataset, `coffee_production`, is a data frame containing world coffee production data. It includes information on country name, coffee production in 2016, and coffee production in 2017.

Usage

```
data(coffee_production)
```

Format

A data frame with 47 observations and 3 variables:

name_long Character vector indicating the country name

coffee_production_2016 Integer vector indicating the coffee production in 2016

coffee_production_2017 Integer vector indicating the coffee production in 2017

Details

The dataset name has been kept as 'coffee_production' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `spData` package version 2.3.5

cork_tree_direction	<i>Cork Samples Weight on Four Sides of Trees</i>
---------------------	---

Description

This dataset, `cork_tree_direction`, is a data frame containing weight measurements of cork samples taken from four sides of trees. It includes information on tree identifier, direction, and weight.

Usage

```
data(cork_tree_direction)
```

Format

A data frame with 112 observations and 3 variables:

tree Factor w/ 28 levels indicating the tree identifier

dir Factor w/ 4 levels indicating the direction

y Integer vector indicating the weight

Details

The dataset name has been kept as 'cork_tree_direction' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

corn_hybrid_density	<i>Factorial Experiment on Corn Hybrids</i>
---------------------	---

Description

This dataset, corn_hybrid_density, is a data frame containing observations from a factorial experiment comparing three corn hybrids across two sowing densities. It includes information on hybrid, sowing density, and the corresponding response variable.

Usage

```
data(corn_hybrid_density)
```

Format

A data frame with 24 observations and 3 variables:

A Character vector indicating the corn hybrid

B Character vector indicating the sowing density

Resp Numeric vector indicating the response variable

Details

The dataset name has been kept as 'corn_hybrid_density' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the AgroR package version 1.3.7

cotton_pesticide	<i>Cotton Response to Herbicide and Insecticide</i>
------------------	---

Description

This dataset, `cotton_pesticide`, is a data frame containing observations on cotton response to herbicide and insecticide treatments. It includes information on plot identifier, herbicide level, insecticide level, and weight.

Usage

```
data(cotton_pesticide)
```

Format

A data frame with 25 observations and 4 variables:

ID Factor w/ 25 levels indicating the plot identifier

H Numeric vector indicating the herbicide level

I Integer vector indicating the insecticide level

Weight Numeric vector indicating the weight

Details

The dataset name has been kept as 'cotton_pesticide' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `smbdata` package version 0.2.0

cowpea_maize_yield	<i>Intercropping Experiment of Maize and Cowpea</i>
--------------------	---

Description

This dataset, `cowpea_maize_yield`, is a data frame containing maize and cowpea yield data under different nitrogen levels from an intercropping experiment. It includes information on block, nitrogen level, cowpea variety, maize variety, cowpea yield, and maize yield.

Usage

```
data(cowpea_maize_yield)
```

Format

A data frame with 72 observations and 6 variables:

block Factor w/ 3 levels indicating the block
nitro Factor w/ 4 levels indicating the nitrogen level
cowpea Factor w/ 2 levels indicating the cowpea variety
maize Factor w/ 3 levels indicating the maize variety
cyield Integer vector indicating the cowpea yield
myield Integer vector indicating the maize yield

Details

The dataset name has been kept as 'cowpea_maize_yield' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

cows_insemination	<i>Crossbreeding of Cows</i>
-------------------	------------------------------

Description

This dataset, cows_insemination, is a data frame containing records of artificial insemination and conception in cows collected over multiple time periods. It includes insemination and conception counts for three breeding cycles labeled C1, C2, and C3.

Usage

```
data(cows_insemination)
```

Format

A data frame with 10 observations and 7 variables:

Time Factor indicating the time period
Sillod_Insemination_C1 Integer vector indicating the number of inseminations during cycle 1
Sillod_Conception_C1 Integer vector indicating the number of conceptions during cycle 1
Sillod_Insemination_C2 Integer vector indicating the number of inseminations during cycle 2
Sillod_Conception_C2 Integer vector indicating the number of conceptions during cycle 2
Sillod_Insemination_C3 Integer vector indicating the number of inseminations during cycle 3
Sillod_Conception_C3 Integer vector indicating the number of conceptions during cycle 3

Details

The dataset name has been kept as 'cows_insemination' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the gpk package version 1.0

earthworm_crop_soils	<i>Earthworms in Cultivated Soils</i>
----------------------	---------------------------------------

Description

This dataset, earthworm_crop_soils, is a data frame containing observations on earthworm populations in cultivated soils. It includes measurements of earthworm density and biomass together with information on crop type, year, and soil type.

Usage

```
data(earthworm_crop_soils)
```

Format

A data frame with 12 observations and 5 variables:

Density Integer vector indicating earthworm population density

Biomass Numeric vector indicating earthworm biomass

Crop Factor indicating the crop type

Year Integer vector indicating the year of observation

Soil Factor indicating the soil type

Details

The dataset name has been kept as 'earthworm_crop_soils' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the gpk package version 1.0

earthworm_population	<i>Population Dynamics of Earthworms</i>
----------------------	--

Description

This dataset, `earthworm_population`, is a data frame containing observations on earthworm population dynamics over time. It includes monthly measurements of earthworm density and biomass.

Usage

```
data(earthworm_population)
```

Format

A data frame with 46 observations and 3 variables:

Month Factor indicating the month of observation

Density Numeric vector indicating earthworm population density

Biomass Numeric vector indicating earthworm biomass

Details

The dataset name has been kept as 'earthworm_population' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `gpk` package version 1.0

eelworm_fumigation	<i>Eelworm Fumigant Treatments</i>
--------------------	------------------------------------

Description

This dataset, `eelworm_fumigation`, is a data frame containing counts of eelworms before and after fumigant treatments. It includes information on block, row, column, fumigant, dose, initial and final eelworm counts, grain, straw, and weeds.

Usage

```
data(eelworm_fumigation)
```

Format

A data frame with 48 observations and 10 variables:

block Factor w/ 4 levels indicating the block
row Integer vector indicating the row
col Integer vector indicating the column
fumigant Factor w/ 5 levels indicating the fumigant
dose Integer vector indicating the dose
initial Integer vector indicating the initial eelworm count
final Integer vector indicating the final eelworm count
grain Numeric vector indicating the grain measurement
straw Numeric vector indicating the straw measurement
weeds Numeric vector indicating the weeds measurement

Details

The dataset name has been kept as 'eelworm_fumigation' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

egg_weight_daily	<i>Sample of Egg Weights on 24 Consecutive Days</i>
------------------	---

Description

This dataset, egg_weight_daily, is a data frame containing a sample of egg weights collected on 24 consecutive days. It includes information on day and weight.

Usage

```
data(egg_weight_daily)
```

Format

A data frame with 240 observations and 2 variables:

day Integer vector indicating the day
weight Integer vector indicating the egg weight

Details

The dataset name has been kept as 'egg_weight_daily' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

```
eucalyptus_progenies  #' Eucalyptus Grandis Progenies Height
```

Description

This dataset, eucalyptus_progenies, is a data frame containing height measurements of 7-year-old Eucalyptus grandis trees. It includes observations across three trials and six progenies arranged in randomized blocks.

Usage

```
data(eucalyptus_progenies)
```

Format

A data frame with 72 observations and 4 variables:

trati Character vector indicating the progeny

bloc Character vector indicating the block

exp Character vector indicating the trial

resp Numeric vector indicating the height response

Details

The dataset name has been kept as 'eucalyptus_progenies' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the AgroR package version 1.3.7

fish_feeding*Food Consumption for Fish*

Description

This dataset, fish_feeding, is a data frame containing the food consumption for various fish species. It includes information on species, maximum weight, temperature, aspect ratio, food type, and food consumption.

Usage

```
data(fish_feeding)
```

Format

A data frame with 33 observations and 6 variables:

Species Factor w/ 33 levels indicating the species

MaxWt Integer vector indicating the maximum weight

Temp Integer vector indicating the temperature

AR Numeric vector indicating the aspect ratio

Food Factor w/ 2 levels indicating the food type

FoodCon Numeric vector indicating the food consumption

Details

The dataset name has been kept as 'fish_feeding' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the GLMsData package version 1.4

fungicide_latin_square*Latin Square Experiment for Testing Fungicide*

Description

This dataset, fungicide_latin_square, is a data frame containing data from a Latin square experiment for testing fungicide. It includes information on treatment, yield, row, and column.

Usage

```
data(fungicide_latin_square)
```

Format

A data frame with 25 observations and 4 variables:

trt Factor w/ 5 levels indicating the treatment

yield Numeric vector indicating the yield

row Integer vector indicating the row

col Integer vector indicating the column

Details

The dataset name has been kept as 'fungicide_latin_square' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

grape_uniformity	<i>Uniformity Trial of Grape</i>
------------------	----------------------------------

Description

This dataset, grape_uniformity, is a data frame containing grape yield data from a uniformity trial experiment. It includes information on row, column, and yield.

Usage

```
data(grape_uniformity)
```

Format

A data frame with 155 observations and 3 variables:

row Integer vector indicating the row

col Integer vector indicating the column

yield Numeric vector indicating the yield

Details

The dataset name has been kept as 'grape_uniformity' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

guinea_pig_sleep	<i>Sleep Times for Guinea Pigs</i>
------------------	------------------------------------

Description

This dataset, guinea_pig_sleep, is a data frame containing sleep times for guinea pigs. It includes information on dose and sleep time.

Usage

```
data(guinea_pig_sleep)
```

Format

A data frame with 30 observations and 2 variables:

Dose Numeric vector indicating the dose

Sleep Numeric vector indicating the sleep time

Details

The dataset name has been kept as 'guinea_pig_sleep' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the GLMsData package version 1.4

hawaii_plant_size	<i>Maximum Plant Size in the Hawaiian Archipelago</i>
-------------------	---

Description

This dataset, hawaii_plant_size, is a data frame containing maximum plant size measurements for species in the Hawaiian archipelago. It includes information on species, family, native status, sample size, 95th percentile diameter, and maximum diameter of the three largest individuals.

Usage

```
data(hawaii_plant_size)
```

Format

A data frame with 58 observations and 6 variables:

species Character vector indicating the species

family Integer vector indicating the family code

native.status Factor w/ 2 levels indicating the native status

n Integer vector indicating the sample size

d95 Numeric vector indicating the 95th percentile diameter

dmax3 Numeric vector indicating the maximum diameter of the three largest individuals

Details

The dataset name has been kept as 'hawaii_plant_size' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the biometrics package version 1.0.4

hawaii_tree_growth	<i>Hawaii Tree Diameter Growth</i>
--------------------	------------------------------------

Description

This dataset, hawaii_tree_growth, is a data frame containing diameter growth increments of a tropical tree species in Hawaii. It includes information on tree code, diameter at breast height, total height, crown area, competition index, and current annual increment for 1986, 1987, and 1988.

Usage

```
data(hawaii_tree_growth)
```

Format

A data frame with 63 observations and 8 variables:

tree.code Factor w/ 63 levels indicating the tree code

dbh Numeric vector indicating the diameter at breast height

toth Numeric vector indicating the total height

crown.area Numeric vector indicating the crown area

comp.ind Numeric vector indicating the competition index

cai.1986 Numeric vector indicating the current annual increment for 1986

cai.1987 Numeric vector indicating the current annual increment for 1987

cai.1988 Numeric vector indicating the current annual increment for 1988

Details

The dataset name has been kept as 'hawaii_tree_growth' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the biometrics package version 1.0.4

idn_rice_farms	<i>Rice Production in Indonesia</i>
----------------	-------------------------------------

Description

This dataset, idn_rice_farms, is a data frame containing observations on rice production farms in Indonesia. It includes information on farm size, status, rice varieties, program participation, input use, labor, wages, output, price, and region.

Usage

```
data(idn_rice_farms)
```

Format

A data frame with 1026 observations and 20 variables:

id Integer vector indicating the farm identifier
size Numeric vector indicating the farm size
status Factor w/ 3 levels indicating the status
varieties Factor w/ 3 levels indicating the rice varieties
bimas Factor w/ 3 levels indicating the bimas program participation
seed Integer vector indicating the seed quantity
urea Integer vector indicating the urea quantity
phosphate Integer vector indicating the phosphate quantity
pesticide Integer vector indicating the pesticide quantity
pseed Numeric vector indicating the price of seed
purea Numeric vector indicating the price of urea
pphosph Numeric vector indicating the price of phosphate
hiredlabor Integer vector indicating the hired labor
famlabor Integer vector indicating the family labor
totlabor Integer vector indicating the total labor
wage Numeric vector indicating the wage
goutput Integer vector indicating the gross output
noutput Integer vector indicating the net output
price Numeric vector indicating the price
region Factor w/ 6 levels indicating the region

Details

The dataset name has been kept as 'idn_rice_farms' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the plm package version 2.6-7

kiwi_crop_design	<i>Experimental Design of Kiwifruit Cover Crops</i>
------------------	---

Description

This dataset, kiwi_crop_design, is a data frame containing the experimental design of a kiwifruit cover crop study. It includes information on sample identifier and treatment.

Usage

```
data(kiwi_crop_design)
```

Format

A data frame with 12 observations and 2 variables:

SampleID Character vector indicating the sample identifier

Treatments Character vector indicating the treatment

Details

The dataset name has been kept as 'kiwi_crop_design' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the easynem package version 1.0.3

ladybird_fungus	<i>Ladybird Transmission of Fungus</i>
-----------------	--

Description

This dataset, ladybird_fungus, is a data frame containing data from an experiment conducted to study the transmission of fungus from ladybirds to aphids on two host plant types (beans or birdsfoot trefoil). It includes information on plot identifier, run, plant, host, ladybird presence, number of cadavers, number of live aphids, and number of infected aphids.

Usage

```
data(ladybird_fungus)
```

Format

A data frame with 72 observations and 8 variables:

ID Factor w/ 72 levels indicating the plot identifier

Run Factor w/ 2 levels indicating the run

DPlant Factor w/ 36 levels indicating the plant

Host Factor w/ 2 levels indicating the host plant type

Ladybird Factor w/ 2 levels indicating the ladybird presence

Cadaver Integer vector indicating the number of cadavers

Live Integer vector indicating the number of live aphids

Infected Integer vector indicating the number of infected aphids

Details

The dataset name has been kept as 'ladybird_fungus' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the smbdata package version 0.2.0

lamb_births	<i>Number of Lambs Born to 3 Breeds on 3 Farms</i>
-------------	--

Description

This dataset, `lamb_births`, is a data frame containing lamb birth data across sheep breeds and farms. It includes information on farm, breed, lamb class, and number of lambs.

Usage

```
data(lamb_births)
```

Format

A data frame with 36 observations and 4 variables:

farm Factor w/ 3 levels indicating the farm

breed Factor w/ 3 levels indicating the breed

lambclass Factor w/ 4 levels indicating the lamb class

y Integer vector indicating the number of lambs

Details

The dataset name has been kept as 'lamb_births' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `agridat` package version 1.26

nitrofen_toxicity	<i>Toxicity of Nitrofen in Aquatic Systems</i>
-------------------	--

Description

This dataset, `nitrofen_toxicity`, is a data frame containing data from an experiment to measure the reproductive toxicity of nitrofen on a species of zooplankton (*Ceriodaphnia dubia*). Fifty animals were randomized into batches of ten and each batch was put in a solution with a measured concentration of nitrofen. It includes information on nitrofen concentration and brood sizes across three broods along with the total.

Usage

```
data(nitrofen_toxicity)
```

Format

A data frame with 50 observations and 5 variables:

conc Numeric vector indicating the nitrofen concentration

brood1 Numeric vector indicating the number of offspring in brood 1

brood2 Numeric vector indicating the number of offspring in brood 2

brood3 Numeric vector indicating the number of offspring in brood 3

total Numeric vector indicating the total number of offspring

Details

The dataset name has been kept as 'nitrofen_toxicity' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the boot package version 1.3-32

orange_rootstocks	<i>Orange Plant Growth Under Rootstocks</i>
-------------------	---

Description

This dataset, orange_rootstocks, is a data frame containing observations on orange plants grown under different rootstocks. It includes information on rootstock treatment, block, and the corresponding response variable.

Usage

```
data(orange_rootstocks)
```

Format

A data frame with 27 observations and 3 variables:

trat Character vector indicating the rootstock treatment

bloco Character vector indicating the block

resp Numeric vector indicating the response variable

Details

The dataset name has been kept as 'orange_rootstocks' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the AgroR package version 1.3.7

peach_uniformity	<i>Uniformity Trial of Peach</i>
------------------	----------------------------------

Description

This dataset, peach_uniformity, is a data frame containing peach yield data from a uniformity trial experiment. It includes information on row, column, and yield.

Usage

```
data(peach_uniformity)
```

Format

A data frame with 144 observations and 3 variables:

row Integer vector indicating the row

col Integer vector indicating the column

yield Integer vector indicating the yield

Details

The dataset name has been kept as 'peach_uniformity' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

pig_weight_gain	<i>Weight Gain in Pigs for Different Treatments</i>
-----------------	---

Description

This dataset, pig_weight_gain, is a data frame containing weight gain data in pigs for different treatments. It includes information on pen, treatment, pig identifier, sex, initial weight, final weight, feed consumption, adjusted initial weight, average daily gain, and feed conversion ratio.

Usage

```
data(pig_weight_gain)
```

Format

A data frame with 30 observations and 10 variables:

pen Factor w/ 5 levels indicating the pen
treatment Factor w/ 3 levels indicating the treatment
pig Integer vector indicating the pig identifier
sex Factor w/ 2 levels indicating the sex
weight1 Numeric vector indicating the initial weight
weight2 Numeric vector indicating the final weight
feed Numeric vector indicating the feed consumption
w0 Integer vector indicating the adjusted initial weight
g Numeric vector indicating the average daily gain
h Numeric vector indicating the feed conversion ratio

Details

The dataset name has been kept as 'pig_weight_gain' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

plant_growth_regulator

Plant Heights in Glasshouse

Description

This dataset, plant_growth_regulator, is a data frame containing plant height measurements from a glasshouse experiment conducted to examine how different doses of a growth regulator affect plant height under controlled conditions. It includes information on pot, row, column, growth regulator dose, and plant height.

Usage

```
data(plant_growth_regulator)
```

Format

A data frame with 24 observations and 5 variables:

Pot Factor w/ 24 levels indicating the pot

Row Factor w/ 4 levels indicating the row

Column Factor w/ 6 levels indicating the column

Dose Factor w/ 6 levels indicating the growth regulator dose

Height Numeric vector indicating the plant height

Details

The dataset name has been kept as 'plant_growth_regulator' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the smbdata package version 0.2.0

pollen_removal	<i>Pollen Removal</i>
----------------	-----------------------

Description

This dataset, pollen_removal, is a data frame containing data from a study investigating reproductive strategies in plants. Biologists recorded the time spent at sources of pollen and the proportions of pollen removed by bumblebee queens and honeybee workers pollinating a species of lily.

Usage

```
data(pollen_removal)
```

Format

A data frame with 47 observations and 3 variables:

PollenRemoved Numeric vector indicating the proportion of pollen removed

DurationOfVisit Integer vector indicating the duration of visit

BeeType Factor w/ 2 levels indicating the bee type

Details

The dataset name has been kept as 'pollen_removal' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the Sleuth3 package version 1.0-6

potato_scab_sulfur	<i>Potato Scab Infection with Sulfur Treatments</i>
--------------------	---

Description

This dataset, `potato_scab_sulfur`, is a data frame containing observations on potato scab infection under different sulfur treatments. It includes information on infection score, treatment, row, and column.

Usage

```
data(potato_scab_sulfur)
```

Format

A data frame with 32 observations and 4 variables:

inf Integer vector indicating the infection score

trt Factor w/ 7 levels indicating the treatment

row Integer vector indicating the row

col Integer vector indicating the column

Details

The dataset name has been kept as 'potato_scab_sulfur' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `agridat` package version 1.26

rabbit_body_mass	<i>Body Weight in Rabbits</i>
------------------	-------------------------------

Description

This dataset, `rabbit_body_mass`, is a data frame containing measurements used to examine the relationship between hind foot length and body weight in rabbits. It includes continuous measurements of hind foot length and body weight.

Usage

```
data(rabbit_body_mass)
```

Format

A data frame with 141 observations and 2 variables:

Hind_Foot_Length Numeric vector indicating hind foot length

Body_Weight Numeric vector indicating body weight

Details

The dataset name has been kept as 'rabbit_body_mass' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the gpk package version 1.0

red_wine_quality	<i>Red Wine Characteristics and Quality</i>
------------------	---

Description

This dataset, red_wine_quality, is a data frame containing physicochemical characteristics and quality ratings of red wine samples from north Portugal. It includes information on acidity, sugar, chlorides, sulfur dioxide, density, pH, sulphates, alcohol, and quality.

Usage

```
data(red_wine_quality)
```

Format

A data frame with 1599 observations and 12 variables:

fixed_acidity Numeric vector indicating the fixed acidity

volatile_acidity Numeric vector indicating the volatile acidity

citric_acid Numeric vector indicating the citric acid content

residual_sugar Numeric vector indicating the residual sugar

chlorides Numeric vector indicating the chlorides content

free_sulfur_dioxide Numeric vector indicating the free sulfur dioxide

total_sulfur_dioxide Numeric vector indicating the total sulfur dioxide

density Numeric vector indicating the density

pH Numeric vector indicating the pH

sulphates Numeric vector indicating the sulphates content

alcohol Numeric vector indicating the alcohol content

quality Integer vector indicating the quality rating

Details

The dataset name has been kept as 'red_wine_quality' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the live package version 1.5.13

rice_wheat_production *Rice and Wheat Production*

Description

This dataset, rice_wheat_production, is a data frame containing observations on rice and wheat production over multiple years. It includes information on food type, year, area, production, yield, and irrigation.

Usage

```
data(rice_wheat_production)
```

Format

A data frame with 106 observations and 6 variables:

Food Factor indicating the food type

Year Factor indicating the year

Area Numeric vector indicating the area

Production Numeric vector indicating the production

Yield Integer vector indicating the yield

Irrigated Factor indicating irrigation

Details

The dataset name has been kept as 'rice_wheat_production' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the gpk package version 1.0

river_deforestation	<i>River Deforestation Temperatures</i>
---------------------	---

Description

This dataset, river_deforestation, is a data frame containing air and water temperature measurements before and after deforestation. It includes information on water temperature, air temperature, and deforestation period.

Usage

```
data(river_deforestation)
```

Format

A data frame with 56 observations and 3 variables:

Temp_water Numeric vector indicating the water temperature

Temp_air Numeric vector indicating the air temperature

Deforestation Factor w/ 2 levels indicating the deforestation period

Details

The dataset name has been kept as 'river_deforestation' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the EnTraineR package version 1.0.0

robusta_soil	<i>Robusta Coffee Soil Requirement for Land Evaluation</i>
--------------	--

Description

This dataset, robusta_soil, is a data frame containing robusta coffee soil requirement information for land evaluation. It includes codes for soil parameters together with values across suitability classes and weights.

Usage

```
data(robusta_soil)
```

Format

A data frame with 10 observations and 8 variables:

code Character vector indicating the soil parameter code
s3_a Character vector indicating the s3_a value
s2_a Character vector indicating the s2_a value
s1_a Character vector indicating the s1_a value
s1_b Character vector indicating the s1_b value
s2_b Character vector indicating the s2_b value
s3_b Character vector indicating the s3_b value
wts Character vector indicating the weight

Details

The dataset name has been kept as 'robusta_soil' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the ALUES package version 0.2.1

robusta_temp	<i>Robusta Coffee Temp Requirement for Land Evaluation</i>
--------------	--

Description

This dataset, robusta_temp, is a data frame containing robusta coffee temperature requirement information for land evaluation. It includes codes for temperature parameters together with values across suitability classes and weights.

Usage

```
data(robusta_temp)
```

Format

A data frame with 3 observations and 8 variables:

code Character vector indicating the temperature parameter code
s3_a Character vector indicating the s3_a value
s2_a Character vector indicating the s2_a value
s1_a Character vector indicating the s1_a value
s1_b Character vector indicating the s1_b value
s2_b Character vector indicating the s2_b value
s3_b Character vector indicating the s3_b value
wts Character vector indicating the weight

Details

The dataset name has been kept as 'robusta_temp' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the ALUES package version 0.2.1

robusta_terrain	<i>Robusta Coffee Terrain Requirement for Land Evaluation</i>
-----------------	---

Description

This dataset, robusta_terrain, is a data frame containing robusta coffee terrain requirement information for land evaluation. It includes codes for terrain parameters together with values across suitability classes and weights.

Usage

```
data(robusta_terrain)
```

Format

A data frame with 5 observations and 8 variables:

code Character vector indicating the terrain parameter code
s3_a Character vector indicating the s3_a value
s2_a Character vector indicating the s2_a value
s1_a Character vector indicating the s1_a value
s1_b Character vector indicating the s1_b value
s2_b Character vector indicating the s2_b value
s3_b Character vector indicating the s3_b value
wts Character vector indicating the weight

Details

The dataset name has been kept as 'robusta_terrain' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the ALUES package version 0.2.1

robusta_water*Robusta Coffee Water Requirement for Land Evaluation*

Description

This dataset, `robusta_water`, is a data frame containing robusta coffee water requirement information for land evaluation. It includes codes for water-related parameters together with values across suitability classes and weights.

Usage

```
data(robusta_water)
```

Format

A data frame with 4 observations and 8 variables:

code Character vector indicating the water-related parameter code

s3_a Character vector indicating the s3_a value

s2_a Character vector indicating the s2_a value

s1_a Character vector indicating the s1_a value

s1_b Character vector indicating the s1_b value

s2_b Character vector indicating the s2_b value

s3_b Character vector indicating the s3_b value

wts Character vector indicating the weight

Details

The dataset name has been kept as `'robusta_water'` to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `ALUES` package version 0.2.1

seed_germination	<i>Seed Germination with Different Temperatures</i>
------------------	---

Description

This dataset, `seed_germination`, is a data frame containing seed germination data under different temperatures and concentrations. It includes information on temperature, replicate, concentration, number germinated, and total number of seeds.

Usage

```
data(seed_germination)
```

Format

A data frame with 64 observations and 5 variables:

temp Factor w/ 4 levels indicating the temperature
rep Factor w/ 4 levels indicating the replicate
conc Numeric vector indicating the concentration
germ Integer vector indicating the number germinated
seeds Integer vector indicating the total number of seeds

Details

The dataset name has been kept as 'seed_germination' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `agridat` package version 1.26

soil_munsell_colors	<i>Traditional Soil Color Names</i>
---------------------	-------------------------------------

Description

This dataset, `soil_munsell_colors`, is a data frame containing traditional soil color names associated with Munsell color notation. It includes information on Munsell notation and the corresponding traditional color name.

Usage

```
data(soil_munsell_colors)
```

Format

A data frame with 482 observations and 2 variables:

munsell Character vector indicating the Munsell color notation

traditional_name Character vector indicating the traditional color name

Details

The dataset name has been kept as 'soil_munsell_colors' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the aqp package version 2.3.2

soil_munsell_minerals *Common Soil Minerals Munsell Colors*

Description

This dataset, soil_munsell_minerals, is a data frame containing Munsell color information for common soil minerals. It includes information on mineral name, Munsell color notation, hue, value, and chroma.

Usage

```
data(soil_munsell_minerals)
```

Format

A data frame with 20 observations and 5 variables:

mineral Character vector indicating the mineral name

color Character vector indicating the Munsell color notation

hue Character vector indicating the Munsell hue

value Integer vector indicating the Munsell value

chroma Integer vector indicating the Munsell chroma

Details

The dataset name has been kept as 'soil_munsell_minerals' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the aqp package version 2.3.2

soybean_cultivars	<i>Soybean Cultivars Grain Yield</i>
-------------------	--------------------------------------

Description

This dataset, `soybean_cultivars`, is a data frame containing grain yield evaluations of ten commercial soybean cultivars arranged in randomized complete blocks. It includes information on cultivar, block, and grain yield.

Usage

```
data(soybean_cultivars)
```

Format

A data frame with 40 observations and 3 variables:

cult Factor w/ 10 levels indicating the cultivar

bloc Factor w/ 4 levels indicating the block

prod Numeric vector indicating the grain yield

Details

The dataset name has been kept as 'soybean_cultivars' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from the `AgroR` package version 1.3.7

strawberry_cross_disease	<i>Ordered Disease Ratings of Strawberry Crosses</i>
--------------------------	--

Description

This dataset, `strawberry_cross_disease`, is a data frame containing disease ratings for strawberry crosses across parental combinations. It includes information on male parent, female parent, block, disease category, and count.

Usage

```
data(strawberry_cross_disease)
```

Format

A data frame with 144 observations and 5 variables:

male Factor w/ 3 levels indicating the male parent

female Factor w/ 4 levels indicating the female parent

block Factor w/ 4 levels indicating the block

category Factor w/ 3 levels indicating the disease category

count Integer vector indicating the count

Details

The dataset name has been kept as 'strawberry_cross_disease' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

strawberry_yield	<i>RCB Experiment of Strawberry</i>
------------------	-------------------------------------

Description

This dataset, strawberry_yield, is a data frame containing strawberry yield data from a randomized complete block experiment. It includes information on row, column, block, genotype, and yield.

Usage

```
data(strawberry_yield)
```

Format

A data frame with 32 observations and 5 variables:

row Integer vector indicating the row

col Integer vector indicating the column

block Factor w/ 4 levels indicating the block

gen Factor w/ 8 levels indicating the genotype

yield Numeric vector indicating the yield

Details

The dataset name has been kept as 'strawberry_yield' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

timber_genetics	<i>Timber Tree Genetic Characteristics</i>
-----------------	--

Description

This dataset, timber_genetics, is a data frame containing observations on genetic and environmental components of timber tree characteristics. It includes information on locality, year, replicate, subculture, elongation, multiples, rooting, germination, seed length, and seed width.

Usage

```
data(timber_genetics)
```

Format

A data frame with 224 observations and 10 variables:

Locality Integer vector indicating locality

Year Integer vector indicating year

Replicate Integer vector indicating replicate

Subculture Integer vector indicating subculture

Elongation Numeric vector indicating elongation

Multiples Numeric vector indicating multiples

Rooting Numeric vector indicating rooting

Germination Integer vector indicating germination

Seed_Length Numeric vector indicating seed length

Seed_Width Numeric vector indicating seed width

Details

The dataset name has been kept as 'timber_genetics' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the gpk package version 1.0

tomato_insecticides	<i>Commercial Insecticides Used in Tomato Pest Control</i>
---------------------	--

Description

This dataset, `tomato_insecticides`, is a data frame containing a curated record of 15 commercial insecticide products used for pest control in tomato (*Solanum lycopersicum*) cultivation. Each entry documents the product name, active ingredient, and target pest group (caterpillars, aphids, whiteflies, mites, thrips, and nematodes).

Usage

```
data(tomato_insecticides)
```

Format

A data frame with 15 observations and 4 variables:

insecticide_id Character vector indicating the insecticide identifier

product_name Character vector indicating the product name

active_ingredient Character vector indicating the active ingredient

target_pest Character vector indicating the target pest group

Details

The dataset name has been kept as 'tomato_insecticides' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the `agridatasets` package and assists users in identifying its specific characteristics.

Source

Data taken from Zenodo: <https://zenodo.org/records/21611429>

tomato_uniformity	<i>Uniformity Trial of Tomato</i>
-------------------	-----------------------------------

Description

This dataset, `tomato_uniformity`, is a data frame containing tomato yield data from a uniformity trial experiment. It includes information on row, column, and yield.

Usage

```
data(tomato_uniformity)
```

Format

A data frame with 180 observations and 3 variables:

row Integer vector indicating the row

col Integer vector indicating the column

yield Integer vector indicating the yield

Details

The dataset name has been kept as 'tomato_uniformity' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

toxin_lethal_dose	<i>Crop Protection Product Lethal Dose</i>
-------------------	--

Description

This dataset, toxin_lethal_dose, is a data frame containing observations used to identify the lethal dose of a crop protection product. It includes information on dose level together with the number of dead and alive individuals.

Usage

```
data(toxin_lethal_dose)
```

Format

A data frame with 6 observations and 3 variables:

dose Numeric vector indicating the dose level

dead Integer vector indicating the number of dead individuals

alive Integer vector indicating the number of alive individuals

Details

The dataset name has been kept as 'toxin_lethal_dose' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the mcprofile package version 1.0-1

turnip_density	<i>Density and Spacing Experiment for Turnips</i>
----------------	---

Description

This dataset, turnip_density, is a data frame containing turnip yield data under different plant densities and spacings across three blocks. It includes information on yield, block, spacing, and density.

Usage

```
data(turnip_density)
```

Format

A data frame with 60 observations and 4 variables:

yield Numeric vector indicating the yield

block Factor w/ 3 levels indicating the block

spacing Integer vector indicating the spacing

density Numeric vector indicating the density

Details

The dataset name has been kept as 'turnip_density' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

us_state_soils	<i>US State Soils</i>
----------------	-----------------------

Description

This dataset, us_state_soils, is a data frame containing the official state soil for each US state and territory. It includes information on the state name, its abbreviation, and the corresponding soil series.

Usage

```
data(us_state_soils)
```

Format

A data frame with 52 observations and 3 variables:

state Character vector indicating the state name

abbreviated Character vector indicating the state abbreviation

series Character vector indicating the soil series

Details

The dataset name has been kept as 'us_state_soils' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the aqp package version 2.3.2

view_datasets_agridatasets

View Available Datasets in agridatasets

Description

This function lists all datasets available in the 'agridatasets' package. If the 'agridatasets' package is not loaded, it stops and shows an error message. If no datasets are available, it returns a message and an empty vector.

Usage

```
view_datasets_agridatasets()
```

Value

A character vector with the names of the available datasets. If no datasets are found, it returns an empty character vector.

Examples

```
if (requireNamespace("agridatasets", quietly = TRUE)) {  
  library(agridatasets)  
  view_datasets_agridatasets()  
}
```

wheat_bunt*Fungus Infection in Varieties of Wheat*

Description

This dataset, wheat_bunt, is a data frame containing fungus infection data for different wheat varieties. It includes information on bunt race, percentage infection, replicate, and genotype.

Usage

```
data(wheat_bunt)
```

Format

A data frame with 400 observations and 4 variables:

bunt Factor w/ 20 levels indicating the bunt race

pct Numeric vector indicating the percentage infection

rep Factor w/ 2 levels indicating the replicate

gen Factor w/ 10 levels indicating the genotype

Details

The dataset name has been kept as 'wheat_bunt' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

wheat_splitsplit*Split-Split-Plot Experiment of Wheat*

Description

This dataset, wheat_splitsplit, is a data frame containing wheat yield data from a split-split-plot experiment. It includes information on row, column, yield, inoculation, treatment, genotype, moisture condition, seed treatment, and block.

Usage

```
data(wheat_splitsplit)
```

Format

A data frame with 160 observations and 9 variables:

row Integer vector indicating the row
col Integer vector indicating the column
yield Integer vector indicating the yield
inoc Factor w/ 2 levels indicating the inoculation
trt Integer vector indicating the treatment
gen Factor w/ 2 levels indicating the genotype
dry Factor w/ 2 levels indicating the moisture condition
dust Factor w/ 5 levels indicating the seed treatment
block Factor w/ 4 levels indicating the block

Details

The dataset name has been kept as 'wheat_splitsplit' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the agridat package version 1.26

willow_cutting_yield	<i>Effect of Type and Size of Cutting on Willow Yield</i>
----------------------	---

Description

This dataset, willow_cutting_yield, is a data frame containing observations on the effect of cutting type and size on willow yield. It includes information on plot identifier, block, plot, cutting type, cutting size, and yield.

Usage

```
data(willow_cutting_yield)
```

Format

A data frame with 25 observations and 6 variables:

ID Factor w/ 25 levels indicating the plot identifier
Block Factor w/ 5 levels indicating the block
Plot Factor w/ 5 levels indicating the plot
Type Factor w/ 5 levels indicating the cutting type
Size Factor w/ 3 levels indicating the cutting size
Yield Numeric vector indicating the yield

Details

The dataset name has been kept as 'willow_cutting_yield' to avoid confusion with other datasets in the R ecosystem. This naming convention helps distinguish this dataset as part of the agridatasets package and assists users in identifying its specific characteristics.

Source

Data taken from the smbdata package version 0.2.0

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