Package 'nsm3data'

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Title Datasets to Accompany Hollander, Wolfe, and Chicken NSM3

Version 0.1

Description Designed to add datasets which are used in the Nonparametric Statistical Methods textbook, 3rd edition.

Depends R (>= 3.5.0)

Suggests NSM3

LazyData true

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RoxygenNote 7.1.2

NeedsCompilation no

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Contents

acidred *acidred*

Description

Table 6.10: Number of Revertant Colonies of Salmonella Bacteria of Strain TA98 under Exposure to Various Doses of Acid Red 114, with Hamster Liver Activation

Usage

```
acidred
```

Format

6 arguments across 18 observations

x0 A dosage of 0 micrograms/milliliter

x100 A dosage of 100 micrograms/milliliter

x333 A dosage of 333 micrograms/milliliter

x1000 A dosage of 1000 micrograms/milliliter

x3333 A dosage of 3333 micrograms/milliliter

x10000 A dosage of 10000 micrograms/milliliter

adaptation *adaptation*

Description

Table 7.10: Adaptation Scores for College-Age Stutterers

Usage

```
adaptation
```

Format

3 arguments across 18 observations

subject Subject ID

no No shock after stutter

following Shock following a stutter

during Shock during a stutter

aircon *aircon*

Description

Table 11.2: Intervals in Hours between Failures of the Air-Conditioning System of Plane 8044

Usage

```
aircon
```

Format

1 argument across 12 observations

aircon List of Xi's

albumin *albumin*

Description

Table 3.18 - Intravascular Albumin Pool Before and After Prednisolone

Usage

```
albumin
```

Format

3 arguments across 8 observations

patient Patient ID

xi Before

yi After

alcohol *alcohol*

Description

Table 4.2: Alcohol Intake for 1 Year (Centiliter of Pure Alcohol)

Usage

```
alcohol
```

Format

1 arguments across 15 observations

control Alcohol consumption in the control group

sst Alcohol consumption in the social skills training group

apcalcf *apcalcf*

Description

Table 12.1: Discrepancy Scores for 68 Female AP Calculus Students

Usage

```
apcalcf
```

Format

1 argument across 68 observations

apcalc List of Xi's

apcalcm *apcalcm*

Description

Table 12.3: Discrepancy Scores for 82 Male AP Calculus Students

Usage

```
apcalcm
```

Format

1 argument across 82 observations

apcalc List of Xi's

assembly *assembly*

Description

Table 7.17: Assembly Times (min)

Usage

```
assembly
```

Format

4 arguments across 9 observations

worker Worker ID

a Assembly method type A

b Assembly method type B

c Assembly method type C

d Assembly method type D

beakclapping *beakclapping*

Description

Table 3.5: Beak-Clapping Counts per Minute

Usage

```
beakclapping
```

Format

4 arguments across 25 observations

embryo Embryo ID

xi The beak claps measured in the dark period

yi The beak claps measured in illumination

zi yi - xi

bedmaking *bedmaking*

Description

Table 3.15 - Net Oxygen Consumption (cc)

Usage

```
bedmaking
```

Format

2 arguments across 8 observations

patient Patient ID

zi cc's of oxygen

bleedingtime *bleedingtime*

Description

Table 3.7: Bleeding Time (in seconds)

Usage

```
bleedingtime
```

Format

3 arguments across 6 observations

subject Subject ID

xi Before asprin

yi After asprin

brainweight *brainweight*

Description

Table 8.4: Mean Brain Weights and Medullary Pyramid Large Fiber Counts for Cerebral Palsy Subjects

Usage

```
brainweight
```

Format

3 arguments across 11 observations

subject Subject ID

weight Brain weight, grams

fiber Pyramidal large fiber count

catheter *catheter*

Description

Table 9.10: Required Length of Heart Catheter as a Function of Height and Weight

Usage

```
catheter
```

Format

4 arguments across 12 observations

child Child ID

height Height, inches

Weight Weight, pounds

length Length of heart catheter, centimeters

cenosphereresin *cenosphereresin*

Description

Table 9.2: The Effects of Hydrostatic Pressure on the Density of a Cenosphere-Resin Composite

Usage

```
cenosphereresin
```

Format

3 arguments across 8 observations

specimen Specimen ID

pressure Pressue (psi)

density Density (grams/cubed-centimeter)

`chorioamnion` *chorioamnion*

Description

Table 4.1: Tritiated Water Diffusion Across Human Chorioamnion

Usage

```
chorioamnion
```

Format

1 arguments across 15 observations

term At term

later At 12-26 weeks gestational age

`ciliarybeat` *ciliarybeat*

Description

Table 8.10: Relation between Ciliary Beat Frequency (CBF) Values Obtained through Nasal Brushing and Endobronchial Forceps Biopsy

Usage

```
ciliarybeat
```

Format

3 arguments across 15 observations

subject Subject ID

nasal Nasal brushing

biopsy Endobronchial forceps biopsy

cloudseeding *cloudseeding*

Description

Table 9.5: Precipitation Amounts RI and Circulation Index M for Seeded and Control Units

Usage

```
cloudseeding
```

Format

3 arguments across 21 observations

unit Core sample, i

seededm Seeded X1j (M)

seededri Seeded Y1j (RI)

controlm Control X2j (M)

controlri Control Y2j (RI)

coatacidity *coatacidity*

Description

Table 7.23: Coat Acidity Value

Usage

```
coatacidity
```

Format

3 arguments across 18 observations

acidity Acidity

concentration Concentration of NaOH

type Type of coal

concrete *concrete*

Description

Table 11.8: Pneumatic Pressures Required to Break Concrete Cubes

Usage

```
concrete
```

Format

1 argument across 20 observations

concrete List of Xi's

coronary *coronary*

Description

Table 5.8: Peak Levels of Human Plasma Growth Hormone after Arginine Hydrochloride Infusion (Initial Test, nanograms per milliliter)

Usage

```
coronary
```

Format

2 arguments across 10 observations

typea Subjects with Type A behavior

typeb Subjects with Type B behavior

cotton *cotton*

Description

Table 7.5: Strength Index of Cotton

Usage

```
cotton
```

Format

1 arguments across 15 observations

p144 Potash level of 144 pounds per acre (lb/acre)

p108 Potash level of 108 pounds per acre (lb/acre)

p72 Potash level of 72 pounds per acre (lb/acre)

p54 Potash level of 54 pounds per acre (lb/acre)

p36 Potash level of 36 pounds per acre (lb/acre)

cysticerci *cysticerci*

Description

Featherston (1971). The weight of Taenia hydatigena tapeworms fed to dogs and the weight of the scoleces recovered from the dogs after 20 days. (A scolex is the attachment end of a tapeworm, consisting of the head and neck). The cysticerci used in the experiment were collected from sheep carcasses and force-fed to 10 dogs via gelatine capsules. The scoleces were recovered from each dog at autopsy, 20 days after the introduction of the tapeworms. The table gives the mean weight of the initial cysticerci and the mean weight of the recovered worms for each of the 10 dogs in the study.

Usage

```
cysticerci
```

Format

M arguments across N observations

cysticerci The initial weight of the tapeworm

worms The weight of the tapeworm after autopsy

ddt *ddt*

Description

Table 3.11 - 6-Beta-Hydroxycortisol Excretion (micrograms/24 hours)

Usage

```
ddt
```

Format

2 arguments across 10 observations

worker Sample ID

zi Excretion density

dewoxidant *dewoxidant*

Description

Table 3.13 - Oxidant Content of Dew Water, Port Burwell, 1960

Usage

```
dewoxidant
```

Format

2 arguments across 12 observations

sample Sample ID

zi Oxidant content, measured in ppm ozone

dogs *dogs*

Description

Table 3.3: Blood Levels of Immunoreactive Insulin (microunits per milliliter)

Usage

```
dogs
```

Format

3 arguments across 7 observations

dog Dog ID

xi The dog's before insulin level

yi The dog's after insulin level

fastfood *fastfood*

Description

Table 11.15 (Abridged): Service Times at a Fast-Food Restaurant (Times Only)

Usage

```
fastfood
```

Format

1 argument across 34 observations

fastfood List of Xi's

`flux` *flux*

Description

Table 9.4: Coastal Sediment Ammonium Flux in Apalachicola Bay, Florida

Usage

```
flux
```

Format

3 arguments across 16 observations

core Core sample, i

time Time, xij (hours)

flux Ammonium flux, Yij (micromoles N/square-meter)

`gizzard` *gizzard*

Description

Table 6.3: Length of YOY Gizzard Shad from Kokosing Lake, Ohio, Sampled in Summer, 1984 (mm)

Usage

```
gizzard
```

Format

1 argument across 40 observations

i Length samples from Site I

ii Length samples from Site II

iii Length samples from Site III

iv Length samples from Site IV

glucoseimpedance *glucoseimpedance*

Description

Table 8.12: Weighted Glucose Response and Glucose Impedance

Usage

```
glucoseimpedance
```

Format

3 arguments across 7 observations

subject Subject ID

response Weighted glucose response, X

impedance Glucose impedance, Y

granulocytic *granulocytic*

Description

Table 11.6: Ordered Survival Times (Days from Diagnosis)

Usage

```
granulocytic
```

Format

1 argument across 43 observations

granulocytic List of Xi's

grouse *grouse*

Description

Table 3.14 - Ruffed Grouse, Percentage Time in Active Movement

Usage

```
grouse
```

Format

2 arguments across 7 observations

grouse Grouse ID

zi Percentage time in active movement

guinea *guinea*

Description

Table 11.3: Ordered Survival Times in Days of Guinea Pigs under Regimen 4.3

Usage

```
guinea
```

Format

1 argument across 72 observations

guinea List of Xi's

hamiltondepression *hamiltondepression*

Description

Table 3.1: The Hamilton Depression Scale Factor IV Values

Usage

```
hamiltondepression
```

Format

3 arguments across 9 observations

patient The patient ID

xi Patient i's before value

yi Patient i's after value

hebbwilliams *hebbwilliams*

Description

Table 7.9: Error Scores by Species

Usage

```
hebbwilliams
```

Format

3 arguments across 36 observations

problem Problem ID

rats Error scores for rats

rabbits Error scores for rabbits

cats Error scores for cats

`hemidiaphragms` *hemidiaphragms*

Description

Table 9.6: Glycogen Content of Hemidiaphragms Measured by Optical Density in the Anthrone Test x 1000

Usage

```
hemidiaphragms
```

Format

5 arguments across 12 observations

j Core sample, i

standardlog Standard X1j (log dose)

standardglycogen Standard Y1j (glycogen)

samplelog Sample I X2j (log dose)

sampleglycogen Sample I Y2j (glycogen)

`hepatitis` *hepatitis*

Description

Table 11.22: Severe Viral Hepatitis Study

Usage

```
hepatitis
```

Format

4 argument across 24 observations

patient Patient ID

weeks Length of observation, weeks

status Status (1 = alive, 0 = dead)

highschool *highschool*

Description

Table 8.6: Spending per High-School Senior and the Percentage of Those Seniors Who Graduated during the 1987-1988 School Year

Usage

```
highschool
```

Format

3 arguments across 18 observations

state State

dollars Dollars $ spent per Pupil

graduation Percentage Graduated

hodgkins *hodgkins*

Description

Table 11.16: Relapse-Free Survival Times for Hodgkin's Disease Patients

Usage

```
hodgkins
```

Format

3 argument across 49 observations

relapse Binary variable of whether the patient relapsed or not (where 1 = yes, 0 = no)

days Days healthy (if not relapsed) or days to relapse

radiation Whether radiation was to the affected node (affected) or it was total nodal radiation

hydroxyproline *hydroxyproline*

Description

Table 3.4: Heat-Insoluble Hydroxyproline Micromoles per Gram of Dry Weight

Usage

```
hydroxyproline
```

Format

3 arguments across 7 observations

child Child ID

before The hydroxyproline density before growth hormone therapy

after The hydroxyproline density after growth hormone therapy

hypnotic *hypnotic*

Description

Table 3.6: Average Scores on the Stanford Profile Scales of Hypnotic Susceptibility

Usage

```
hypnotic
```

Format

3 arguments across 6 observations

subject Subject ID

xi Before score

yi After score

insecticide *insecticide*

Description

Table 9.7: Numbers of Drosophila Flies (Three Different Species) That Survive to Adulthood after Exposure to Various Levels (ppm) of an Organic Phosphorus Insecticide

Usage

```
insecticide
```

Format

3 arguments across 12 observations

species Species of Drosophila fly

level Level of insecticide (ppm)

survived Number survived to adulthood

ironsup *ironsup*

Description

Table 7.21: Percentage of Iron Retained

Usage

```
ironsup
```

Format

3 arguments across 109 observations

percentage Percentage of iron in sample

concentration Concentration in millimolars

form Form of iron (fe2, fe3)

`isomers` *isomers*

Description

Table 7.14: Percent Conversion of Methyl Glucoside to Monovinyl Isomers

Usage

```
isomers
```

Format

5 arguments across 30 observations

run Experimental run ID

p250 Conversion percentage at 250 PSI

p325 Conversion percentage at 325 PSI

p400 Conversion percentage at 400 PSI

p475 Conversion percentage at 475 PSI

p550 Conversion percentage at 550 PSI

`larvae` *larvae*

Description

Table 9.14: Number of Chaoborus Larvae and Water Quality of Samples

Usage

```
larvae
```

Format

5 arguments across 14 observations

sample Sample ID

larvae Number of larvae of Chaoborus collected in a grab sample of the sediment from an area of approximately 225 square centimeters of lake bottom

depth Depth (meters) of the lake at the sampling point

brackishness Brackishness (conductivity) of the water at the lake bottom (recorded in mhos per decimeter)

oxygen Dissolved oxygen (milligrams per liter) in the water sampled from the lake bottom

leadpoisoning *leadpoisoning*

Description

Table 4.7: Plasma glucose values in healthy geese versus lead-poisoned geese

Usage

```
leadpoisoning
```

Format

2 arguments across 15 observations

value Plasma glucose level of the goose

group Which goose was sampled (healthy, leadpoisoned)

leukocyte *leukocyte*

Description

Table 6.4: Number of Glucocorticoid Receptor (GR) Sites per Leukocyte Cell

Usage

```
leukocyte
```

Format

1 argument across 37 observations

normal GR sites per normal subject cell

hairy GR sites per hairy-cell anemia

lymphatic GR sites per chronic lymphatic leukemia cell

myelocytic GR sites per chronic myelocytic leukemia cell

acute GR sites per acute leukemia cell

`liver` *liver*

Description

Table 9.12: Survival Times of Liver Transplant Patients and Related Biological Measurements

Usage

```
liver
```

Format

6 arguments across 54 observations

patient Patient ID

time Survival time

clot A measure of the clotting potential of the patient's blood

prog A subjective index of the patient's prospect of recovery

enz A measure of a protein present in the body

liv A measure relating to white blood cell count

`mayfly` *mayfly*

Description

Table 3.10: Mayfly Head Width, Habitat A (Micrometer Divisions)

Usage

```
mayfly
```

Format

2 arguments across 10 observations

mayfly Sample ID

zi Head width

metabolic *metabolic*

Description

Table 6.8: Fasting Metabolic Rate (FMR) for White-Tailed Deer (kcal/kilogram/day)

Usage

```
metabolic
```

Format

1 argument across 26 observations

X1 Fasting metabolic rate between January-February

X2 Fasting metabolic rate between March-April

X3 Fasting metabolic rate between May-June

X4 Fasting metabolic rate between July-August

X5 Fasting metabolic rate between September-October

X6 Fasting metabolic rate between November-December

methyl *methyl*

Description

Table 11.1: Calculation of Epsilon for the Methylmercury Data

Usage

```
methyl
```

Format

1 arguments across 10 observations

methyl List of integers with Xi data

`motivational` *motivational*

Description

Table 6.6: Number of Pieces Processed

Usage

```
motivational
```

Format

1 argument across 18 observations

no Number of pieces processed by a subject with no information, control

rough Number of pieces processed by a subject in group B, rough information

accurate Number of pieces processed by a subject in group C, accurate information

`mucociliary` *mucociliary*

Description

Table 6.1: Half-Time of Mucociliary Clearance (hours)

Usage

```
mucociliary
```

Format

1 argument across 14 observations

normal Subjects with normal airways

obstructive Subjects with obstructive airways disease

asbestosis Subjects with asbestosis disease

nasturtiums *nasturtiums*

Description

Table 7.12: Logarithm of Toxic Dosages

Usage

```
nasturtiums
```

Format

7 arguments across 21 observations

day Day ID

a Chemical type A

b Chemical type B

c Chemical type C

d Chemical type D

e Chemical type E

f Chemical type F

g Chemical type G

niacin *niacin*

Description

Table 7.20: Amount of Niacin in Enriched Bran Flakes

Usage

```
niacin
```

Format

3 arguments across 12 observations

lab Laboratory ID

none No niacin enrichment

four Four milligrams per 100g bran flakes of niacin enrichment

eight Eight milligrams per 100g bran flakes of niacin enrichment

nsm3data *nsm3data*

Description

nsm3data: Designed to add datasets which are used in the textbook

Details

Additional Datasets to Accompany Hollander, Wolfe, and Chicken - Nonparametric Statistical Methods, Third Edition

THIS IS NOT a substitute for the textbook. You will almost certainly not be able to use anything in this package without having the textbook. Rather, this package is supplemental and is only designed to save you time that you would otherwise spend typing data into R or into a spreadsheet.

Usage

nsm3data contributes no additional functions, but it does have data and documentation. You need not specify the location of a dataset; simply use the `data()` function to read the data into your current environment after you have loaded the library. All datasets have accompanying descriptions that have varying degrees of helpfulness. To view this description, use the `help()` function in R to view the object's documentation. For example, use `help(pokeweed)` to view the `pokeweed` dataset documentation.

Table of Contents

nsm3data contains its own table of contents for the datasets that it includes. This table of contents may not be up-to-date, and we would appreciate your contributions if you find a dataset that doesn't have an entry. Instructions on how to do so are in CONTRIBUTING.md. To view the table of contents, use the `help()` function in R to view the `toc` object documentation: `help(toc)`. Please note that the `toc` object doesn't actually exist in any meaningful way, so trying to reference it will result in just a message.

Loading Data

All datasets in nsm3data are provided as R datasets, so to use a dataset, simply use the `data()` function after you have loaded in the library. Consult the table of contents to find the name of a dataset. For example, use `data(pokeweed)` to load the `pokeweed` dataset into your environment. The data will be loaded in as a dataframe, so you can use any method to view or manipulate that data as you would any other dataframe, including using `tidyr::` functions. If you are new to R, you need not fear overwriting the library datasets, since you are editing data that is in your own environment.

Examples

```
help(toc)
help(pokeweed)
head(pokeweed)
str(pokeweed)

## Not run:
View(pokeweed)
## End(Not run)
```

`nursing` *nursing*

Description

Table 8.7: Rankings for Faculty/Dean Decision-Making Agreement and Faculty Satisfaction for Participating Schools of Nursing

Usage

```
nursing
```

Format

3 arguments across 18 observations

school School

decision Rank for faculty/dean decision-making agreement

satisfaction Rank for faculty satisfaction

`oakstands` *oakstands*

Description

Table 6.7: Average Basal Area Increment (BAI) Vlues for Oak Stands in Southeastern Ohio

Usage

```
oakstands
```

Format

1 argument across 16 observations

X1 Growing site index interval of 66-68

X2 Growing site index interval of 69-71

X3 Growing site index interval of 72-74

X4 Growing site index interval of 75-77

X5 Growing site index interval of 78-80

`odors` *odors*

Description

Table 8.8: Annual Number of Odor Periods for Lake Michigan for the Period 1950-1964

Usage

```
odors
```

Format

2 arguments across 15 observations

year Year

periods Number of odor periods

`oxidant` *oxidant*

Description

Table 9.13: Maximum Oxidant Level, Wind Speed, Temperature, Humidity, and Insolation for a 30-Day Summer Period in the Los Angeles Pollution Control District

Usage

```
oxidant
```

Format

6 arguments across 30 observations

day Day ID
oxidant Maximum oxidant level
wind Wind speed
temperature Temperature (degrees F)
humidity Humidity
insolation Insolation (measure of the amount of sunlight)

---

ozone *ozone*

Description

Table 7.2: Effect of Experimental Ozone Exposures on Airway Resistance (centimeters of a liter of water/second)

Usage

```
ozone
```

Format

4 arguments across 4 observations

subject Subject ID
x1 After .1 ppm exposure
x2 After .6 ppm exposure
x3 After 1.0 ppm exposure

---

pine *pine*

Description

Table 6.5: Interstitial lengths of different species of pine tries

Usage

```
pine
```

Format

2 arguments across 36 observations

Length Interstitial length in centimeters
Type Type of pine tree

plasma.glucose *plasma.glucose*

Description

Table 6.9: Plasma glucose levels in muskellungefish after a certain number of hours

Usage

```
plasma.glucose
```

Format

5 arguments across 8 observations

zero Original plasma glucose level

one Plasma glucose level after 1 hour

four Plasma glucose level after 4 hours

twenty_four Plasma glucose level after 24 hours

ninety_six Plasma glucose level after 96 hours

pokeweed *pokeweed*

Description

Table 5.2 - Average Dry Feces Weight (mg)

Usage

```
pokeweed
```

Format

1 argument across 10 observations

kentucky Kentucky pokeweed

florida Florida pokeweed

pollution *pollution*

Description

Annual number of odor periods for Lake Michigan for the period 1950-1964

Usage

```
pollution
```

Format

4 arguments across 8 observations

year The year measured

odorperiods The number of odor periods measured in that year

prednisone *prednisone*

Description

Table 5.4: Platelet Counts of Newbonr Infants (per Millimeter-cubed)

Usage

```
prednisone
```

Format

1 arguments across 16 observations

with Mothers given prednisone

without Mothers not given prednisone

proline *proline*

Description

Table 8.9: Free Proline and Total Collagen Contents of Cirrhotic Patients

Usage

```
proline
```

Format

3 arguments across 7 observations

patient Patient ID

total Total collage, Xi, (mg/g dry weight of liver)

free Free proline, Yi, (micromoles/dry weight of liver)

psychoactive *psychoactive*

Description

Table 6.2: Raw scores indicating the degree of psychotherapeutic attraction for each experimental condition

Usage

```
psychoactive
```

Format

4 arguments across 8 observations

control The control group

TR Reading

VTP Videotape

RII Group

psychotic *psychotic*

Description

Table 7.3: Effect of Isometric Exercise on Serum Creating Phosphokinase (CPK) Activity (mU/liter) in Psychotic Patients

Usage

```
psychotic
```

Format

5 arguments across 14 observations

subject Subject ID

pre Preexercise

post19 19 hours postexercise

post42 42 hours postexercise

peak Peak-psychotic period

ratskin *ratskin*

Description

Table 7.13: Reactions of Male Rats to Chemical Substances

Usage

```
ratskin
```

Format

7 arguments across 21 observations

rat Experimental run ID

a Chemical type A

b Chemical type B

c Chemical type C

d Chemical type D

e Chemical type E

f Chemical type F

g Chemical type G

roundingfirst *roundingfirst*

Description

Table 7.1: Rounding First-Base Times

Usage

```
roundingfirst
```

Format

Seven arguments across twenty-two observations

Players The player

roundout Player's round out run time in seconds

roundout.rank Player's round out run time rank (by player)

narrowangle Player's narrow angle run time in seconds

narrowangle.rank Player's narrow angle run time rank (by player)

wideangle Player's wide angle run time in seconds

wideangle.rank Player's wide angle run time rank (by player)

salaries *salaries*

Description

Table 3.2: Annual Salaries

Usage

```
salaries
```

Format

3 arguments across 12 observations

pair Pair ID

private The equivalent private sector salary

government The equivalent government job salary

salivation *salivation*

Description

Table 5.7: Mean Drop Differences

Usage

```
salivation
```

Format

2 arguments across 10 observations

feedback Salivation rate for group with feedback

nofeedback Salivation rate for group with no feedback

sample *sample*

Description

Table K.L: Sample dataset description is written here.

Usage

```
sample
```

Format

M arguments across N observations

Variable Variable desciption

Variable Variable description

AnotherVariable Add more of these rows as needed

serum *serum*

Description

Table 7.24: Serum Level of LH (in Nanograms per Milliliter of Serum)

Usage

```
serum
```

Format

3 arguments across 60 observations

dosage Serum level of luteinizing hormone

regime Light regime (constant or 14 h light/10 h dark)

hormone Dosage of luteinizing release factor (LRF)

serumiron *serumiron*

Description

Table 5.1: Serum Iron (micrograms per 100 milliliters) Determination Using Hyland Control Sera

Usage

```
serumiron
```

Format

1 arguments across 40 observations

ramsay Serum iron detected using Ramsay method

jungparekh Serum iron detected using Jung-Parekh method

settlingvelocity *settlingvelocity*

Description

Table 3.12 - Settling Velocities of Sand Samples at 22-degrees Celcius

Usage

```
settlingvelocity
```

Format

2 arguments across 7 observations

sample Sample ID

zi Settling velocity, measured in centimeters/second

shelterbelts *shelterbelts*

Description

Table 7.7: Percent reduction in average wind speed at Dambutta, 1980/81 by shelterbelt trees

Usage

```
shelterbelts
```

Format

Six arguments across nine observations

Month A string with the month

m20 Measured at 20 meters of leeward distance from shelterbelt

m40 Measured at 40 meters of leeward distance from shelterbelt

m100 Measured at 100 meters of leeward distance from shelterbelt

m150 Measured at 150 meters of leeward distance from shelterbelt

m200 Measured at 200 meters of leeward distance from shelterbelt

shelterbeltsnov *shelterbeltsnov*

Description

Table 7.16: Percent reduction in average wind speed at Dambutta, 1980/81 by shelterbelt trees, November included

Usage

```
shelterbeltsnov
```

Format

Six arguments across ten observations

Month A string with the month

m20 Measured at 20 meters of leeward distance from shelterbelt

m40 Measured at 40 meters of leeward distance from shelterbelt

m100 Measured at 100 meters of leeward distance from shelterbelt

m150 Measured at 150 meters of leeward distance from shelterbelt

m200 Measured at 200 meters of leeward distance from shelterbelt

smokers *smokers*

Description

Sputum histamine levels (microgram/gram of dry weight sputum)

Usage

```
smokers
```

Format

2 arguments across 22 observations

sputumhistaminelevel Level in microgram/gram

allergic Groups of allergic/nonallergic

snowy *snowy*

Description

Table 9.1: Double Ratio for 5 Years in the Snowy Mountains of Australia

Usage

```
snowy
```

Format

2 arguments across 5 observations

years Years seeded, xi

double Double ratio, Yi

sodiumion *sodiumion*

Description

Table 5.3: Sodium Ion Content (mequiv/liter)

Usage

```
sodiumion
```

Format

2 arguments across 10 observations

plasma Plasma sodium ion determination

erythrocyte Erythrocyte sodium ion determination

soiltemp *soiltemp*

Description

Table 7.8: Maximum Soil Temperature (degrees Centigrade) at 5-cm Depth at Dambatta, 1980/81

Usage

```
soiltemp
```

Format

Five arguments across nine observations

Month A string with the month

m20 Measured at 20 meters of leeward distance from shelterbelt

m40 Measured at 40 meters of leeward distance from shelterbelt

m100 Measured at 100 meters of leeward distance from shelterbelt

m200 Measured at 200 meters of leeward distance from shelterbelt

squirrelmonkey *squirrelmonkey*

Description

Table 9.3: Body Weight and Total Surface Area of Squirrel Monkeys

Usage

```
squirrelmonkey
```

Format

3 arguments across 9 observations

monkey Monkey ID

weight Body weight, g

surface Total surface area, cubed-centimeters

stainless *stainless*

Description

Table 3.9: Percentage of Chromium in the Stainless Steel Samples

Usage

```
stainless
```

Format

2 arguments across 12 observations

sample Sample ID

percent Percentage of chromium

stockreturn *stockreturn*

Description

Table 8.11: Mean Rate of Return of Common Stock Portfolios over the Period 1956-1969 and the 1969 Value of Each Equity Portfolio for 32 Life Insurance Companies

Usage

```
stockreturn
```

Format

3 arguments across 32 observations

company Company ID

return Mean rate percent of return, 1956-1969

value Value of common stock portfolio, December 31, 1969 (millions of dollars)

stuttering *stuttering*

Description

Table 7.6: Influence of Rhythmicity of Metronome on Speech Fluency

Usage

```
stuttering
```

Format

4 arguments across 12 observations

subject Subject ID

r Subject spoke with a regular (rhythmic) metronome set at 120 ticks per minute

a Subject spoke with an arrhythmic metronome with intervals between 0.3 and 0.7 s but with an average of 120 ticks per minute

n Subject spoke unaided by a metronome

survival *survival*

Description

Table 11.11: Ordered Survival Times in Days of Guinea Pigs under Regimen 6.6

Usage

```
survival
```

Format

1 argument across 72 observations

survival List of Xi's

syllables *syllables*

Description

Table 7.4: Percentage Consonants Correctly Identified under Each of the Conditions: (A) Audition, (L) Lip Reading, (AL) Audition and Lip Reading, (C) Cued Speech, (AC) Audition and Cued Speech, (LC) Lip Reading and Cued Speech, and (ALC) Audition, Lip Reading, and Cued Speech

Usage

```
syllables
```

Format

8 arguments across 18 observations

subject Subject ID

A Audition

L Lip reading

AL Audition and lip reading

C Cued speech

AC Audition and cued speech

LC Lip reading and cued speech

ALC Audition, lip reading, and cued speech

tapeworms *tapeworms*

Description

Table 8.3: Relation Between Weight of the Cysticerci of Taenia hydatigena Fed to Dogs and Weight of Worms Recovered at 20 Days

Usage

```
tapeworms
```

Format

3 arguments across 18 observations

dog Dog ID

cysticerci Weight of cysticerci fed to dogs

worms Weight of worms recovered at 20 days

toc *toc*

Description

help(toc) displays the table of contents for datasets.

Usage

```
toc()
```

Details

A guide to the datasets in nsm3data. Datasets are listed under the Arguments section by the order they appear in the Nonparametric Statistical Methods textbook, 3ed. The reference name in the nsm3data package is given, along with the table number and the descriptor of the dataset.

Name	Table Number - Description
hamiltondepression	Table 3.1 - The Hamilton Depression Scale Factor IV Values
salaries	Table 3.2 - Annual Salaries
dogs	Table 3.3 - Blood Levels of Immunoreactive Insuline (microunits per milliliter)
hydroxyproline	Table 3.4 - Heat-Insoluble Hydroxyproline Micromoles per Gram of Dry Weight
beakclapping	Table 3.5 - Beak-Clapping Counts per Minute
hypnotic	Table 3.6 - Average Scores on the Stanford Profile Scales of Hypnotic Susceptibility
bleedingtime	Table 3.7 - Bleeding Time (in seconds)
stainless	Table 3.9 - Percentage of Chromium in the Stainless Steel Samples
mayfly	Table 3.10 - Mayfly Head Width, Habitat A (Micrometer Divisions)
ddt	Table 3.11 - 6-Beta-Hydroxycortisol Excretion (micrograms/24 hours)
settlingvelocity	Table 3.12 - Settling Velocities of Sand Samples at 22-degrees Celcius
dewoxidant	Table 3.13 - Oxidant Content of Dew Water, Port Burwell, 1960
grouse	Table 3.14 - Ruffed Grouse, Percentage Time in Active Movement
bedmaking	Table 3.15 - Net Oxygen Consumption (cc)
albumin	Table 3.18 - Intravascular Albumin Pool Before and After Prednisolone
chorioamnion	Table 4.1 - Tritiated Water Diffusion Across Human Chorioamnion
alcohol	Table 4.2: Alcohol Intake for 1 Year (Centiliter of Pure Alcohol)
smokers	Table 4.3 - Sputum Histamine Levels (micro-grams/gram Dry Weight Sputum)
violence	Table 4.4 - Seconds Spent in Room after Witnessing Violence
leadpoisoning	Table 4.7 - Plasma Glucose Levels
serumiron	Table 5.1: Serum Iron (micrograms per 100 milliliters) Determination Using Hyland Control Sera
pokeweed	Table 5.2 - Average Dry Feces Weight (mg)
sodiumion	Table 5.3: Sodium Ion Content (mequiv/liter)
prednisone	Table 5.4: Platelet Counts of Newbonr Infants (per Millimeter-cubed)
salivation	Table 5.7: Mean Drop Differences
coronary	Table 5.8: Peak Levels of Human Plasma Growth Hormone after Arginine Hydrochloride Infusion (I
mucociliary	Table 6.1: Half-Time of Mucociliary Clearance (hours)
psychotherapy	Table 6.2: Raw scores indicating the degree of psychotherapeutic attraction for each experimental co
gizzard	Table 6.3: Length of YOY Gizzard Shad from Kokosing Lake, Ohio, Sampled in Summer, 1984 (mm

liver	Table 9.12: Survival Times of Liver Transplant Patients and Related Biological Measurements
oxidant	Table 9.13: Maximum Oxidant Level, Wind Speed, Temperature, Humidity, and Insolation for a 30-I
larvae	Table 9.14: Number of Chaoborus Larvae and Water Quality of Samples
methyl	Table 11.1: Calculation of Epsilon for the Methylmercury Data
aircon	Table 11.2: Intervals in Hours between Failures of the Air-Conditioning System of Plane 8044
guinea	Table 11.3: Ordered Survival Times in Days of Guinea Pigs under Regimen 4.3
granulocytic	Table 11.6: Ordered Survival Times (Days from Diagnosis)
concrete	Table 11.8: Pneumatic Pressures Required to Break Concrete Cubes
tubercle	Table 11.9: Ordered Survival Times in Days of Guinea Pigs under Regimen 5.5
survival	Table 11.11: Ordered Survival Times in Days of Guinea Pigs under Regimen 6.6
hodgkins	Table 11.16: Relapse-Free Survival Times for Hodgkin's Disease Patients
hepatitis	Table 11.22: Severe Viral Hepatitis Study
apcalcf	Table 12.1: Discrepancy Scores for 68 Female AP Calculus Students
apcalcm	Table 12.3: Discrepancy Scores for 82 Male AP Calculus Students

Examples

```
## Not run:
help(toc)

## End(Not run)
```

`tremors` *tremors*

Description

Table 7.26: Forearm Tremor Frequency (Hz) as a Function of Weight Applied at the Wrist

Usage

```
tremors
```

Format

5 arguments across 6 observations

subject Acidity

t1 7.5lb of weight, treatment 1

t2 5lb of weight, treatment 2

t3 2.5lb of weight, treatment 3

t4 1.25lb of weight, treatment 4

t5 0lb of weight, treatment 5

triglyceride *triglyceride*

Description

Table 9.11: Blood Plasma Measurements Related to Total Triglyceride Level

Usage

```
triglyceride
```

Format

9 arguments across 13 observations

patient Patient ID

total Total triglyceride level, mmol/liter

sex Sex of the patient (coded as female = 0, male = 1)

obese Whether patient is obese (coded as no = 0, yes = 1)

clylomicrons Chylo-microns

vldl Very low density lipoprotein

ldl Low density lipoprotein

hdl High density lipoprotein

age Age of the patient

tubercle *tubercle*

Description

Table 11.9: Ordered Survival Times in Days of Guinea Pigs under Regimen 5.5

Usage

```
tubercle
```

Format

1 argument across 72 observations

tubercle List of Xi's

tuna *tuna*

Description

Table 8.1: Hunter L Values and Consumer Panel Scores for Nine Lots of Canned Tuna

Usage

```
tuna
```

Format

2arguments across 9 observations

lot Lot number for the can

hunter Hunter's L value

panel Panel score for the tuna

twins *twins*

Description

Table 8.5: Paired exam data of 13 different twin pairs

Usage

```
twins
```

Format

2 arguments across 13 observations

TwinX Exam score for twin X

TwinY Exam score for twin Y

violence *violence*

Description

Table 4.4: Seconds spent in the room after witnessing violence

Usage

```
violence
```

Format

2 arguments across 42 observations

seconds Number of seconds child remained in room

media Which program the child watched (olympics, karatekid)

welds *welds*

Description

Table 7.22: Strength of Weld

Usage

```
welds
```

Format

3 arguments across 30 observations

strength Weld strength

cycle Weld cycle time

gage Gage bar setting

Index