

# Package ‘aprean3’

August 29, 2016

**Title** Datasets from Draper and Smith ``Applied Regression Analysis''  
(3rd Ed., 1998)

**Version** 1.0.1

**Date** 2015-05-09

**Description** An unofficial companion to the textbook ``Applied Regression  
Analysis'' by N.R. Draper and H. Smith (3rd Ed., 1998) including all the  
accompanying datasets.

**URL** <https://github.com/lbraglia/aprean3>

**BugReports** <https://github.com/lbraglia/aprean3/issues>

**Depends** R (>= 3.1.1)

**License** GPL-3

**LazyData** true

**NeedsCompilation** no

**Author** Luca Braglia [aut, cre]

**Maintainer** Luca Braglia <lbraglia@gmail.com>

**Repository** CRAN

**Date/Publication** 2015-05-09 23:10:33

## R topics documented:

aprean3	5
dsa01a	5
dsa06b	6
dsa15a	7
dse03a	7
dse03aa	8
dse03bb	9
dse03c	9
dse03cc	10
dse03dd	10
dse03e	11

dse03ee	12
dse03f	12
dse03g	13
dse03gg	13
dse03h	14
dse03hh	14
dse03i	15
dse03ii	16
dse03j	16
dse03jj	17
dse03jj2	17
dse03jj3	18
dse03k	18
dse03kk	19
dse03ll	20
dse03n	20
dse03o	21
dse03r	21
dse03v	22
dse03w	22
dse03x	23
dse03z	24
dse04d	24
dse04e	25
dse04f	25
dse06a	26
dse06b	27
dse06c	27
dse06d	28
dse06e	29
dse06f	29
dse06g	30
dse06h	31
dse06i	31
dse06j	32
dse06k	33
dse06l	33
dse06z	34
dse07b	34
dse07c	35
dse08b	36
dse09b	36
dse12a	37
dse12b	38
dse12c	38
dse12d	39
dse12e	40
dse12h	40

dse13a . . . . .	41
dse13b . . . . .	42
dse13c . . . . .	42
dse13d . . . . .	43
dse13e . . . . .	44
dse13f . . . . .	44
dse13g . . . . .	45
dse13h . . . . .	46
dse14b . . . . .	46
dse14c . . . . .	47
dse14d . . . . .	48
dse14e . . . . .	48
dse14f . . . . .	49
dse14g . . . . .	50
dse14j . . . . .	50
dse14l . . . . .	51
dse14q . . . . .	52
dse14r . . . . .	52
dse14s . . . . .	53
dse14t . . . . .	54
dse14u . . . . .	54
dse15a . . . . .	55
dse15b . . . . .	56
dse15c . . . . .	56
dse15e . . . . .	57
dse15f . . . . .	58
dse15h . . . . .	59
dse15i . . . . .	60
dse15j . . . . .	60
dse15k . . . . .	61
dse15l . . . . .	62
dse15n . . . . .	62
dse15p . . . . .	63
dse16a . . . . .	64
dse16b . . . . .	64
dse16c . . . . .	65
dse16d . . . . .	66
dse17b . . . . .	66
dse19d . . . . .	67
dse22a . . . . .	68
dse22b . . . . .	69
dse22c . . . . .	69
dse22d . . . . .	70
dse22e . . . . .	71
dse22f . . . . .	72
dse22g . . . . .	72
dse23a_a . . . . .	73
dse23a_b . . . . .	74

dse23d . . . . .	74
dse23e . . . . .	75
dse23f . . . . .	76
dse23g_1 . . . . .	76
dse23g_2 . . . . .	77
dse23h . . . . .	78
dse24a . . . . .	79
dse24b . . . . .	79
dse24c . . . . .	80
dse24d . . . . .	80
dse24e . . . . .	81
dse24g . . . . .	81
dse24h . . . . .	82
dse24i . . . . .	83
dse24j . . . . .	83
dse24k . . . . .	84
dse24l . . . . .	84
dse24m . . . . .	85
dse24n . . . . .	86
dse24o . . . . .	86
dse24p . . . . .	87
dsq23_3_3 . . . . .	88
dsq23_3_7 . . . . .	88
dsq23_7_5 . . . . .	89
dss217 . . . . .	90
dss222 . . . . .	91
dss2310 . . . . .	91
dst021 . . . . .	92
dst032 . . . . .	93
dst033 . . . . .	93
dst081 . . . . .	94
dst121 . . . . .	94
dst132 . . . . .	95
dst134 . . . . .	96
dst141 . . . . .	96
dst144 . . . . .	97
dst145 . . . . .	98
dst146 . . . . .	98
dst181 . . . . .	99
dst191 . . . . .	100
dst192 . . . . .	100
dst232 . . . . .	101
dst242 . . . . .	102
dst252 . . . . .	102
dst253 . . . . .	103
dst261 . . . . .	103
dsx161 . . . . .	104

---

aprean3

*Datasets from Draper and Smith, "Applied Regression Analysis" (3rd ed., 1998)*

---

### Description

This package is an unofficial companion to the textbook "Applied Regression Analysis" by N.R. Draper and H. Smith (3rd ed., 1998).

### Details

It includes all the published datasets, both for easy reproducibility and algorithms benchmarking purposes.

Dataset names are lowercased and prefixed by dsX, where X is:

- e for Exercises
- x for eXamples
- q for eQuations
- a for Appendixes
- s for Sections.

Variables have lower-case name.

### Source

Draper, N.R., Smith, H. (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

---

dsa01a

*Dataset for Appendix A, Chapter 01*

---

### Description

Dataset for Appendix A, Chapter 01

### Usage

dsa01a

**Format**

A data.frame with 25 rows and 10 variables:

**x1**

**x2**

**x3**

**x4**

**x5**

**x6**

**x7**

**x8**

**x9**

**x10**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dsa01a

---

dsa06b

*Dataset for Appendix B, Chapter 06*

---

**Description**

Dataset for Appendix B, Chapter 06

**Usage**

dsa06b

**Format**

A data.frame with 70 rows and 4 variables:

**set**

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dsa06b

---

dsa15a

*Dataset for Appendix A, Chapter 15*

---

**Description**

Dataset for Appendix A, Chapter 15

**Usage**

dsa15a

**Format**

A data . frame with 13 rows and 5 variables:

**x1**

**x2**

**x3**

**x4**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dsa15a

---

dse03a

*Dataset for Exercise A, Chapter 03*

---

**Description**

Dataset for Exercise A, Chapter 03

**Usage**

dse03a

**Format**

A data.frame with 11 rows and 2 variables:

x

y

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03a

---

dse03aa

*Dataset for Exercise AA, Chapter 03*

---

**Description**

Dataset for Exercise AA, Chapter 03

**Usage**

dse03aa

**Format**

A data.frame with 7 rows and 2 variables:

x

y

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03aa



---

dse03bb

*Dataset for Exercise BB, Chapter 03*

---

**Description**

Dataset for Exercise BB, Chapter 03

**Usage**

dse03bb

**Format**

A data.frame with 10 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03bb

---

dse03c

*Dataset for Exercise C, Chapter 03*

---

**Description**

Dataset for Exercise C, Chapter 03

**Usage**

dse03c

**Format**

A data.frame with 13 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03c

---

`dse03cc`*Dataset for Exercise CC, Chapter 03*

---

**Description**

Dataset for Exercise CC, Chapter 03

**Usage**`dse03cc`**Format**

A data.frame with 10 rows and 2 variables:

`x``y`**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**`dse03cc`

---

`dse03dd`*Dataset for Exercise DD, Chapter 03*

---

**Description**

Dataset for Exercise DD, Chapter 03

**Usage**`dse03dd`**Format**

A data.frame with 9 rows and 2 variables:

`t``y`

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03dd

---

dse03e

*Dataset for Exercise E, Chapter 03*

---

**Description**

Dataset for Exercise E, Chapter 03

**Usage**

dse03e

**Format**

A data.frame with 7 rows and 3 variables:

**x**

**y1**

**y2**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03e

---

dse03ee

*Dataset for Exercise EE, Chapter 03*

---

**Description**

Dataset for Exercise EE, Chapter 03

**Usage**

dse03ee

**Format**

A data.frame with 23 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03ee

---

dse03f

*Dataset for Exercise F, Chapter 03*

---

**Description**

Dataset for Exercise F, Chapter 03

**Usage**

dse03f

**Format**

A data.frame with 12 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03f

---

`dse03g`*Dataset for Exercise G, Chapter 03*

---

**Description**

Dataset for Exercise G, Chapter 03

**Usage**`dse03g`**Format**

A data.frame with 17 rows and 2 variables:

`x``y`**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**`dse03g`

---

`dse03gg`*Dataset for Exercise GG, Chapter 03*

---

**Description**

Dataset for Exercise GG, Chapter 03

**Usage**`dse03gg`**Format**

A data.frame with 5 rows and 2 variables:

`wage``turnover`

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03gg

---

dse03h

*Dataset for Exercise H, Chapter 03*

---

**Description**

Dataset for Exercise H, Chapter 03

**Usage**

dse03h

**Format**

A data . frame with 14 rows and 2 variables:

x

y

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03h

---

dse03hh

*Dataset for Exercise HH, Chapter 03*

---

**Description**

Dataset for Exercise HH, Chapter 03

**Usage**

dse03hh

**Format**

A data . frame with 29 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03hh

---

dse03i

*Dataset for Exercise I, Chapter 03*

---

**Description**

Dataset for Exercise I, Chapter 03

**Usage**

dse03i

**Format**

A data . frame with 13 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03i

---

dse03ii

*Dataset for Exercise II, Chapter 03*

---

**Description**

Dataset for Exercise II, Chapter 03

**Usage**

dse03ii

**Format**

A data.frame with 32 rows and 2 variables:

**y**

**x**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03ii

---

dse03j

*Dataset for Exercise J, Chapter 03*

---

**Description**

Dataset for Exercise J, Chapter 03

**Usage**

dse03j

**Format**

A data.frame with 15 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley



**Examples**

dse03j

---

`dse03jj`*Dataset for Exercise JJ, Chapter 03*

---

**Description**

Dataset for Exercise JJ, Chapter 03

**Usage**`dse03jj`**Format**

A data.frame with 48 rows and 2 variables:

`y``x`**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**`dse03jj`

---

`dse03jj2`*Dataset for Exercise JJ2, Chapter 03*

---

**Description**

Dataset for Exercise JJ2, Chapter 03

**Usage**`dse03jj2`**Format**

A data.frame with 9 rows and 2 variables:

`y``x`

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03jj2

---

dse03jj3

*Dataset for Exercise JJ3, Chapter 03*

---

**Description**

Dataset for Exercise JJ3, Chapter 03

**Usage**

dse03jj3

**Format**

A data . frame with 48 rows and 2 variables:

**y**

**x**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03jj3

---

dse03k

*Dataset for Exercise K, Chapter 03*

---

**Description**

Dataset for Exercise K, Chapter 03

**Usage**

dse03k

**Format**

A data.frame with 34 rows and 2 variables:

**y**

**x**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03k

---

dse03kk

*Dataset for Exercise KK, Chapter 03*

---

**Description**

Dataset for Exercise KK, Chapter 03

**Usage**

dse03kk

**Format**

A data.frame with 12 rows and 2 variables:

**y1994**

**y1995**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03kk

---

dse0311

*Dataset for Exercise LL, Chapter 03*

---

**Description**

Dataset for Exercise LL, Chapter 03

**Usage**

dse0311

**Format**

A data.frame with 13 rows and 2 variables:

**y**

**x**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse0311

---

dse03n

*Dataset for Exercise N, Chapter 03*

---

**Description**

Dataset for Exercise N, Chapter 03

**Usage**

dse03n

**Format**

A data.frame with 12 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03n

---

`dse03o`*Dataset for Exercise O, Chapter 03*

---

**Description**

Dataset for Exercise O, Chapter 03

**Usage**`dse03o`**Format**

A data.frame with 7 rows and 2 variables:

`x``y`**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**`dse03o`

---

`dse03r`*Dataset for Exercise R, Chapter 03*

---

**Description**

Dataset for Exercise R, Chapter 03

**Usage**`dse03r`**Format**

A data.frame with 43 rows and 2 variables:

`t``a`

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03r

---

dse03v

*Dataset for Exercise V, Chapter 03*

---

**Description**

Dataset for Exercise V, Chapter 03

**Usage**

dse03v

**Format**

A data . frame with 50 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03v

---

dse03w

*Dataset for Exercise W, Chapter 03*

---

**Description**

Dataset for Exercise W, Chapter 03

**Usage**

dse03w

**Format**

A data.frame with 14 rows and 2 variables:

**year**

**price**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03w

---

dse03x

*Dataset for Exercise X, Chapter 03*

---

**Description**

Dataset for Exercise X, Chapter 03

**Usage**

dse03x

**Format**

A data.frame with 11 rows and 6 variables:

**x123**

**y1**

**y2**

**y3**

**x4**

**y4**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03x

---

dse03z

*Dataset for Exercise Z, Chapter 03*

---

**Description**

Dataset for Exercise Z, Chapter 03

**Usage**

dse03z

**Format**

A data.frame with 17 rows and 2 variables:

**consumption**

**population**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse03z

---

dse04d

*Dataset for Exercise D, Chapter 04*

---

**Description**

Dataset for Exercise D, Chapter 04

**Usage**

dse04d

**Format**

A data.frame with 14 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley



**Examples**

dse04d

---

`dse04e`*Dataset for Exercise E, Chapter 04*

---

**Description**

Dataset for Exercise E, Chapter 04

**Usage**`dse04e`**Format**

A data.frame with 10 rows and 2 variables:

`x``y`**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse04e

---

`dse04f`*Dataset for Exercise F, Chapter 04*

---

**Description**

Dataset for Exercise F, Chapter 04

**Usage**`dse04f`**Format**

A data.frame with 10 rows and 3 variables:

`x``y``xy`

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse04f

---

dse06a

*Dataset for Exercise A, Chapter 06*

---

**Description**

Dataset for Exercise A, Chapter 06

**Usage**

dse06a

**Format**

A data . frame with 11 rows and 4 variables:

**x0**

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06a

---

dse06b

*Dataset for Exercise B, Chapter 06*

---

**Description**

Dataset for Exercise B, Chapter 06

**Usage**

dse06b

**Format**

A data.frame with 12 rows and 3 variables:

**x**

**y**

**z**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06b

---

dse06c

*Dataset for Exercise C, Chapter 06*

---

**Description**

Dataset for Exercise C, Chapter 06

**Usage**

dse06c

**Format**

A data.frame with 15 rows and 3 variables:

**y**

**x1**

**x2**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06c

---

dse06d

*Dataset for Exercise D, Chapter 06*

---

**Description**

Dataset for Exercise D, Chapter 06

**Usage**

dse06d

**Format**

A data.frame with 8 rows and 3 variables:

**y**

**x1**

**x2**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06d

---

dse06e

*Dataset for Exercise E, Chapter 06*

---

**Description**

Dataset for Exercise E, Chapter 06

**Usage**

dse06e

**Format**

A data.frame with 16 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06e

---

dse06f

*Dataset for Exercise F, Chapter 06*

---

**Description**

Dataset for Exercise F, Chapter 06

**Usage**

dse06f

**Format**

A data.frame with 17 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06f

---

dse06g

*Dataset for Exercise G, Chapter 06*

---

**Description**

Dataset for Exercise G, Chapter 06

**Usage**

dse06g

**Format**

A data.frame with 17 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06g

---

dse06h

*Dataset for Exercise H, Chapter 06*

---

**Description**

Dataset for Exercise H, Chapter 06

**Usage**

dse06h

**Format**

A data.frame with 13 rows and 3 variables:

**y**

**x**

**z**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06h

---

dse06i

*Dataset for Exercise I, Chapter 06*

---

**Description**

Dataset for Exercise I, Chapter 06

**Usage**

dse06i

**Format**

A data.frame with 7 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06i

---

dse06j

*Dataset for Exercise J, Chapter 06*

---

**Description**

Dataset for Exercise J, Chapter 06

**Usage**

dse06j

**Format**

A data.frame with 10 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06j



---

dse06k

*Dataset for Exercise K, Chapter 06*

---

**Description**

Dataset for Exercise K, Chapter 06

**Usage**

dse06k

**Format**

A data.frame with 5 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06k

---

dse06l

*Dataset for Exercise L, Chapter 06*

---

**Description**

Dataset for Exercise L, Chapter 06

**Usage**

dse06l

**Format**

A data.frame with 9 rows and 4 variables:

**batchn**

**t**

**c**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse061

---

dse06z

*Dataset for Exercise Z, Chapter 06*

---

**Description**

Dataset for Exercise Z, Chapter 06

**Usage**

dse06z

**Format**

A data . frame with 19 rows and 2 variables:

x

y

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse06z

---

dse07b

*Dataset for Exercise B, Chapter 07*

---

**Description**

Dataset for Exercise B, Chapter 07

**Usage**

dse07b

**Format**

A data.frame with 48 rows and 4 variables:

**time**  
**set1**  
**set2**  
**set3**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse07b

---

dse07c

*Dataset for Exercise C, Chapter 07*

---

**Description**

Dataset for Exercise C, Chapter 07

**Usage**

dse07c

**Format**

A data.frame with 50 rows and 7 variables:

**y**  
**x1**  
**x2**  
**x3**  
**x4**  
**x5**  
**x6**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse07c

---

dse08b

*Dataset for Exercise B, Chapter 08*

---

**Description**

Dataset for Exercise B, Chapter 08

**Usage**

dse08b

**Format**

A data.frame with 5 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse08b

---

dse09b

*Dataset for Exercise B, Chapter 09*

---

**Description**

Dataset for Exercise B, Chapter 09

**Usage**

dse09b

**Format**

A data.frame with 5 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse09b

---

dse12a

*Dataset for Exercise A, Chapter 12*

---

**Description**

Dataset for Exercise A, Chapter 12

**Usage**

dse12a

**Format**

A data . frame with 18 rows and 5 variables:

**x1**

**x2**

**x3**

**x4**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse12a

---

dse12b

*Dataset for Exercise B, Chapter 12*

---

**Description**

Dataset for Exercise B, Chapter 12

**Usage**

dse12b

**Format**

A data.frame with 20 rows and 4 variables:

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse12b

---

dse12c

*Dataset for Exercise C, Chapter 12*

---

**Description**

Dataset for Exercise C, Chapter 12

**Usage**

dse12c

**Format**

A data.frame with 24 rows and 2 variables:

**t**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse12c

---

dse12d

*Dataset for Exercise D, Chapter 12*

---

**Description**

Dataset for Exercise D, Chapter 12

**Usage**

dse12d

**Format**

A data.frame with 15 rows and 6 variables:

**x1**

**x2**

**x3**

**y1**

**y2**

**y3**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse12d

---

dse12e

*Dataset for Exercise E, Chapter 12*

---

**Description**

Dataset for Exercise E, Chapter 12

**Usage**

dse12e

**Format**

A data.frame with 28 rows and 5 variables:

**fat**

**flour**

**water**

**rpm**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse12e

---

dse12h

*Dataset for Exercise H, Chapter 12*

---

**Description**

Dataset for Exercise H, Chapter 12

**Usage**

dse12h



**Format**

A data.frame with 27 rows and 4 variables:

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse12h

---

dse13a

*Dataset for Exercise A, Chapter 13*

---

**Description**

Dataset for Exercise A, Chapter 13

**Usage**

dse13a

**Format**

A data.frame with 6 rows and 3 variables:

**x**

**y**

**means**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse13a

---

dse13b

*Dataset for Exercise B, Chapter 13*

---

**Description**

Dataset for Exercise B, Chapter 13

**Usage**

dse13b

**Format**

A data.frame with 47 rows and 4 variables:

**filler**

**naphthenic\_oil**

**y**

**ytype**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse13b

---

dse13c

*Dataset for Exercise C, Chapter 13*

---

**Description**

Dataset for Exercise C, Chapter 13

**Usage**

dse13c

**Format**

A data.frame with 11 rows and 6 variables:

**x1**

**x2**

**x3**

**x4**

**y1**

**y2**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse13c

---

dse13d

*Dataset for Exercise D, Chapter 13*

---

**Description**

Dataset for Exercise D, Chapter 13

**Usage**

dse13d

**Format**

A data.frame with 24 rows and 4 variables:

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse13d

---

dse13e

*Dataset for Exercise E, Chapter 13*

---

**Description**

Dataset for Exercise E, Chapter 13

**Usage**

dse13e

**Format**

A data.frame with 43 rows and 2 variables:

**t**  
**m**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse13e

---

dse13f

*Dataset for Exercise F, Chapter 13*

---

**Description**

Dataset for Exercise F, Chapter 13

**Usage**

dse13f

**Format**

A data.frame with 16 rows and 3 variables:

**x1**  
**x2**  
**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse13f

---

dse13g

*Dataset for Exercise G, Chapter 13*

---

**Description**

Dataset for Exercise G, Chapter 13

**Usage**

dse13g

**Format**

A data.frame with 35 rows and 4 variables:

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse13g

---

dse13h

*Dataset for Exercise H, Chapter 13*

---

**Description**

Dataset for Exercise H, Chapter 13

**Usage**

dse13h

**Format**

A data.frame with 8 rows and 5 variables:

**x1**

**x2**

**x3**

**x4**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse13h

---

dse14b

*Dataset for Exercise B, Chapter 14*

---

**Description**

Dataset for Exercise B, Chapter 14

**Usage**

dse14b

**Format**

A data . frame with 18 rows and 5 variables:

**y**  
**tiller**  
**type**  
**nrate**  
**x**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14b

---

dse14c

*Dataset for Exercise C, Chapter 14*

---

**Description**

Dataset for Exercise C, Chapter 14

**Usage**

dse14c

**Format**

A data . frame with 9 rows and 4 variables:

**row**  
**y**  
**operator**  
**speed**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14c

---

dse14d

*Dataset for Exercise D, Chapter 14*

---

**Description**

Dataset for Exercise D, Chapter 14

**Usage**

dse14d

**Format**

A data . frame with 6 rows and 6 variables:

**z0**

**z1**

**z2**

**z3**

**z4**

**z5**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14d

---

dse14e

*Dataset for Exercise E, Chapter 14*

---

**Description**

Dataset for Exercise E, Chapter 14

**Usage**

dse14e



**Format**

A data . frame with 6 rows and 6 variables:

**z0**

**z1**

**z2**

**z3**

**z4**

**z5**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14e

---

dse14f

*Dataset for Exercise F, Chapter 14*

---

**Description**

Dataset for Exercise F, Chapter 14

**Usage**

dse14f

**Format**

A data . frame with 6 rows and 6 variables:

**z0**

**z1**

**z2**

**z3**

**z4**

**z5**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14f

---

dse14g

*Dataset for Exercise G, Chapter 14*

---

**Description**

Dataset for Exercise G, Chapter 14

**Usage**

dse14g

**Format**

A data.frame with 20 rows and 5 variables:

**system**

**x0**

**x1**

**x2**

**x3**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14g

---

dse14j

*Dataset for Exercise J, Chapter 14*

---

**Description**

Dataset for Exercise J, Chapter 14

**Usage**

dse14j

**Format**

A data.frame with 72 rows and 2 variables:

**wh**

**age**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14j

---

dse14l

*Dataset for Exercise L, Chapter 14*

---

**Description**

Dataset for Exercise L, Chapter 14

**Usage**

dse14l

**Format**

A data.frame with 8 rows and 3 variables:

**set**

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14l

---

dse14q

*Dataset for Exercise Q, Chapter 14*

---

**Description**

Dataset for Exercise Q, Chapter 14

**Usage**

dse14q

**Format**

A data . frame with 8 rows and 6 variables:

**x1**

**y1**

**x2**

**y2**

**x3**

**y3**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14q

---

dse14r

*Dataset for Exercise R, Chapter 14*

---

**Description**

Dataset for Exercise R, Chapter 14

**Usage**

dse14r

**Format**

A data.frame with 48 rows and 4 variables:

**boot**  
**subject**  
**temperature**  
**drop**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14r

---

dse14s

*Dataset for Exercise S, Chapter 14*

---

**Description**

Dataset for Exercise S, Chapter 14

**Usage**

dse14s

**Format**

A data.frame with 8 rows and 4 variables:

**x**  
**z**  
**zx**  
**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14s

---

dse14t

*Dataset for Exercise T, Chapter 14*

---

**Description**

Dataset for Exercise T, Chapter 14

**Usage**

dse14t

**Format**

A data.frame with 15 rows and 4 variables:

**x**

**z**

**xz**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14t

---

dse14u

*Dataset for Exercise U, Chapter 14*

---

**Description**

Dataset for Exercise U, Chapter 14

**Usage**

dse14u

**Format**

A data.frame with 15 rows and 4 variables:

**z1**

**z2**

**z3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse14u

---

dse15a

*Dataset for Exercise A, Chapter 15*

---

**Description**

Dataset for Exercise A, Chapter 15

**Usage**

dse15a

**Format**

A data.frame with 17 rows and 6 variables:

**x1**

**x2**

**x3**

**x4**

**x5**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15a

---

dse15b

*Dataset for Exercise B, Chapter 15*

---

**Description**

Dataset for Exercise B, Chapter 15

**Usage**

dse15b

**Format**

A data . frame with 9 rows and 4 variables:

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15b

---

dse15c

*Dataset for Exercise C, Chapter 15*

---

**Description**

Dataset for Exercise C, Chapter 15

**Usage**

dse15c



**Format**

A data . frame with 20 rows and 6 variables:

**x1**

**x2**

**x3**

**x4**

**x5**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15c

---

dse15e

*Dataset for Exercise E, Chapter 15*

---

**Description**

Dataset for Exercise E, Chapter 15

**Usage**

dse15e

**Format**

A data . frame with 90 rows and 8 variables:

**y**

**x1**

**x2**

**x3**

**x4**

**x5**

**x6**

**x7**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15e

---

`dse15f`*Dataset for Exercise F, Chapter 15*

---

**Description**

Dataset for Exercise F, Chapter 15

**Usage**`dse15f`**Format**

A data . frame with 20 rows and 6 variables:

`x1``x2``x3``x4``x5``y`**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**`dse15f`

---

dse15h

*Dataset for Exercise H, Chapter 15*

---

**Description**

Dataset for Exercise H, Chapter 15

**Usage**

dse15h

**Format**

A data . frame with 33 rows and 10 variables:

**year**

**x1**

**x2**

**x3**

**x4**

**x5**

**x6**

**x7**

**x8**

**x9**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15h

---

dse15i

*Dataset for Exercise I, Chapter 15*

---

**Description**

Dataset for Exercise I, Chapter 15

**Usage**

dse15i

**Format**

A data.frame with 48 rows and 6 variables:

**x1**

**x2**

**x3**

**x4**

**x5**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15i

---

dse15j

*Dataset for Exercise J, Chapter 15*

---

**Description**

Dataset for Exercise J, Chapter 15

**Usage**

dse15j

**Format**

A data.frame with 16 rows and 7 variables:

**x1**  
**x2**  
**x3**  
**x4**  
**x5**  
**x6**  
**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15j

---

dse15k

*Dataset for Exercise K, Chapter 15*

---

**Description**

Dataset for Exercise K, Chapter 15

**Usage**

dse15k

**Format**

A data.frame with 16 rows and 6 variables:

**y1**  
**y2**  
**x1**  
**x2**  
**x3**  
**x4**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15k

---

dse15l

*Dataset for Exercise L, Chapter 15*

---

**Description**

Dataset for Exercise L, Chapter 15

**Usage**

dse15l

**Format**

A data.frame with 15 rows and 8 variables:

**x1**

**x2**

**x3**

**x4**

**x5**

**x6**

**x7**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15l

---

dse15n

*Dataset for Exercise N, Chapter 15*

---

**Description**

Dataset for Exercise N, Chapter 15

**Usage**

dse15n

**Format**

A data.frame with 21 rows and 4 variables:

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15n

---

dse15p

*Dataset for Exercise P, Chapter 15*

---

**Description**

Dataset for Exercise P, Chapter 15

**Usage**

dse15p

**Format**

A data.frame with 16 rows and 6 variables:

**x1**

**x2**

**x3**

**x4**

**x5**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse15p

---

dse16a

*Dataset for Exercise A, Chapter 16*

---

**Description**

Dataset for Exercise A, Chapter 16

**Usage**

dse16a

**Format**

A data.frame with 5 rows and 4 variables:

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse16a

---

dse16b

*Dataset for Exercise B, Chapter 16*

---

**Description**

Dataset for Exercise B, Chapter 16

**Usage**

dse16b

**Format**

A data.frame with 6 rows and 4 variables:

**x1**

**x2**

**x3**

**y**



**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse16b

---

dse16c

*Dataset for Exercise C, Chapter 16*

---

**Description**

Dataset for Exercise C, Chapter 16

**Usage**

dse16c

**Format**

A data.frame with 7 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse16c

---

dse16d

*Dataset for Exercise D, Chapter 16*

---

**Description**

Dataset for Exercise D, Chapter 16

**Usage**

dse16d

**Format**

A data.frame with 5 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse16d

---

dse17b

*Dataset for Exercise B, Chapter 17*

---

**Description**

Dataset for Exercise B, Chapter 17

**Usage**

dse17b

**Format**

A data.frame with 8 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse17b

---

dse19d

*Dataset for Exercise D, Chapter 19*

---

**Description**

Dataset for Exercise D, Chapter 19

**Usage**

dse19d

**Format**

A data . frame with 8 rows and 4 variables:

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse19d

---

dse22a

*Dataset for Exercise A, Chapter 22*

---

**Description**

Dataset for Exercise A, Chapter 22

**Usage**

dse22a

**Format**

A data.frame with 11 rows and 9 variables:

**a**

**b**

**p0**

**p1**

**p2**

**p3**

**p4**

**p5**

**p6**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse22a

---

dse22b

*Dataset for Exercise B, Chapter 22*

---

**Description**

Dataset for Exercise B, Chapter 22

**Usage**

dse22b

**Format**

A data . frame with 6 rows and 4 variables:

**y**

**x1**

**x2**

**x3**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse22b

---

dse22c

*Dataset for Exercise C, Chapter 22*

---

**Description**

Dataset for Exercise C, Chapter 22

**Usage**

dse22c

**Format**

A data.frame with 20 rows and 7 variables:

**p1**

**p2**

**p3**

**p4**

**p5**

**p6**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse22c

---

dse22d

*Dataset for Exercise D, Chapter 22*

---

**Description**

Dataset for Exercise D, Chapter 22

**Usage**

dse22d

**Format**

A data.frame with 10 rows and 9 variables:

**time**

**weight\_diff**

**p0**

**p1**

**p2**

**p3**

**p4**

**p5**

**p6**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse22d

---

dse22e

*Dataset for Exercise E, Chapter 22*

---

**Description**

Dataset for Exercise E, Chapter 22

**Usage**

dse22e

**Format**

A data . frame with 9 rows and 7 variables:

**y**

**x1**

**x2**

**x3**

**x4**

**x5**

**x6**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse22e

---

dse22f

*Dataset for Exercise F, Chapter 22*

---

**Description**

Dataset for Exercise F, Chapter 22

**Usage**

dse22f

**Format**

A data.frame with 12 rows and 7 variables:

**y**

**x1**

**x2**

**x3**

**x4**

**x5**

**x6**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse22f

---

dse22g

*Dataset for Exercise G, Chapter 22*

---

**Description**

Dataset for Exercise G, Chapter 22

**Usage**

dse22g



**Format**

A data.frame with 24 rows and 5 variables:

**age**  
**n**  
**weight**  
**sd**  
**category**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse22g

---

dse23a\_a

*Dataset for Exercise A-a, Chapter 23*

---

**Description**

Dataset for Exercise A-a, Chapter 23

**Usage**

dse23a\_a

**Format**

A data.frame with 18 rows and 7 variables:

**pressure**  
**time**  
**x1**  
**x2**  
**x3**  
**x4**  
**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse23a\_a

---

dse23a\_b

*Dataset for Exercise A-b, Chapter 23*

---

**Description**

Dataset for Exercise A-b, Chapter 23

**Usage**

dse23a\_b

**Format**

A data.frame with 18 rows and 7 variables:

**premix**

**finish**

**x1**

**x2**

**x3**

**x4**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse23a\_b

---

dse23d

*Dataset for Exercise D, Chapter 23*

---

**Description**

Dataset for Exercise D, Chapter 23

**Usage**

dse23d

**Format**

A data.frame with 19 rows and 2 variables:

**pcal**  
**bstrength**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse23d

---

dse23e

*Dataset for Exercise E, Chapter 23*

---

**Description**

Dataset for Exercise E, Chapter 23

**Usage**

dse23e

**Format**

A data.frame with 16 rows and 9 variables:

**al**  
**bl**  
**cl**  
**dl**  
**a**  
**b**  
**c**  
**d**  
**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse23e

---

dse23f

*Dataset for Exercise F, Chapter 23*

---

**Description**

Dataset for Exercise F, Chapter 23

**Usage**

dse23f

**Format**

A data . frame with 9 rows and 4 variables:

**group**

**z1**

**z2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse23f

---

dse23g\_1

*Dataset for Exercise G-1, Chapter 23*

---

**Description**

Dataset for Exercise G-1, Chapter 23

**Usage**

dse23g\_1

**Format**

A data.frame with 15 rows and 9 variables:

**level**  
**tube**  
**x1**  
**x2**  
**x3**  
**x4**  
**x5**  
**x6**  
**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse23g\_1

---

dse23g\_2

*Dataset for Exercise G-2, Chapter 23*

---

**Description**

Dataset for Exercise G-2, Chapter 23

**Usage**

dse23g\_2

**Format**

A data.frame with 15 rows and 9 variables:

**level**  
**tube**  
**x1**  
**x2**  
**x3**  
**x4**  
**x5**  
**x6**  
**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse23g\_2

---

dse23h

*Dataset for Exercise H, Chapter 23*

---

**Description**

Dataset for Exercise H, Chapter 23

**Usage**

dse23h

**Format**

A data.frame with 16 rows and 6 variables:

**x1**

**x2**

**x3**

**x2x3**

**matings**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse23h

---

dse24a

*Dataset for Exercise A, Chapter 24*

---

**Description**

Dataset for Exercise A, Chapter 24

**Usage**

dse24a

**Format**

A data.frame with 3 rows and 2 variables:

**t**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24a

---

dse24b

*Dataset for Exercise B, Chapter 24*

---

**Description**

Dataset for Exercise B, Chapter 24

**Usage**

dse24b

**Format**

A data.frame with 12 rows and 2 variables:

**t**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24b

---

`dse24c`*Dataset for Exercise C, Chapter 24*

---

**Description**

Dataset for Exercise C, Chapter 24

**Usage**`dse24c`**Format**

A data . frame with 4 rows and 2 variables:

`x``y`**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**`dse24c`

---

`dse24d`*Dataset for Exercise D, Chapter 24*

---

**Description**

Dataset for Exercise D, Chapter 24

**Usage**`dse24d`**Format**

A data . frame with 5 rows and 2 variables:

`x``y`



**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24d

---

dse24e

*Dataset for Exercise E, Chapter 24*

---

**Description**

Dataset for Exercise E, Chapter 24

**Usage**

dse24e

**Format**

A data.frame with 14 rows and 2 variables:

**t**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24e

---

dse24g

*Dataset for Exercise G, Chapter 24*

---

**Description**

Dataset for Exercise G, Chapter 24

**Usage**

dse24g

**Format**

A data.frame with 5 rows and 2 variables:

**t**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24g

---

dse24h

*Dataset for Exercise H, Chapter 24*

---

**Description**

Dataset for Exercise H, Chapter 24

**Usage**

dse24h

**Format**

A data.frame with 38 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24h

---

dse24i

*Dataset for Exercise I, Chapter 24*

---

**Description**

Dataset for Exercise I, Chapter 24

**Usage**

dse24i

**Format**

A data.frame with 8 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24i

---

dse24j

*Dataset for Exercise J, Chapter 24*

---

**Description**

Dataset for Exercise J, Chapter 24

**Usage**

dse24j

**Format**

A data.frame with 13 rows and 3 variables:

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24j

---

dse24k

*Dataset for Exercise K, Chapter 24*

---

**Description**

Dataset for Exercise K, Chapter 24

**Usage**

dse24k

**Format**

A data.frame with 5 rows and 2 variables:

x

y

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24k

---

dse24l

*Dataset for Exercise L, Chapter 24*

---

**Description**

Dataset for Exercise L, Chapter 24

**Usage**

dse24l

**Format**

A data.frame with 55 rows and 3 variables:

**t**  
**y**  
**set**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse241

---

dse24m

*Dataset for Exercise M, Chapter 24*

---

**Description**

Dataset for Exercise M, Chapter 24

**Usage**

dse24m

**Format**

A data.frame with 43 rows and 2 variables:

**t**  
**m**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24m

---

dse24n

*Dataset for Exercise N, Chapter 24*

---

**Description**

Dataset for Exercise N, Chapter 24

**Usage**

dse24n

**Format**

A data . frame with 7 rows and 6 variables:

**t**

**w1**

**w2**

**w3**

**w4**

**w5**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24n

---

dse24o

*Dataset for Exercise O, Chapter 24*

---

**Description**

Dataset for Exercise O, Chapter 24

**Usage**

dse24o

**Format**

A data.frame with 4 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24o

---

dse24p

*Dataset for Exercise P, Chapter 24*

---

**Description**

Dataset for Exercise P, Chapter 24

**Usage**

dse24p

**Format**

A data.frame with 5 rows and 3 variables:

**x**

**y**

**z**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dse24p

---

dsq23\_3\_3

*Dataset for Equation 23.3.3*

---

**Description**

Dataset for Equation 23.3.3

**Usage**

dsq23\_3\_3

**Format**

A data.frame with 30 rows and 5 variables:

**x0**

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dsq23\_3\_3

---

dsq23\_3\_7

*Dataset for Equation 23.3.7*

---

**Description**

Dataset for Equation 23.3.7

**Usage**

dsq23\_3\_7



**Format**

A data.frame with 30 rows and 4 variables:

**x0**

**z1**

**z2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dsq23\_3\_7

---

dsq23\_7\_5

*Dataset for Equation 23.7.5*

---

**Description**

Dataset for Equation 23.7.5

**Usage**

dsq23\_7\_5

**Format**

A data.frame with 24 rows and 12 variables:

**x1**

**x2**

**x3**

**x4**

**x5**

**x6**

**x7**

**x8**

**x9**

**x10**

**x11**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dsq23\_7\_5

---

dss217

*Dataset for Section 21.7*

---

**Description**

Dataset for Section 21.7

**Usage**

dss217

**Format**

A data.frame with 25 rows and 3 variables:

**y**

**x6**

**x8**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dss217

---

dss222

*Dataset for Section 22.2*

---

**Description**

Dataset for Section 22.2

**Usage**

dss222

**Format**

A data . frame with 75 rows and 8 variables:

**n**

**p0**

**p1**

**p2**

**p3**

**p4**

**p5**

**p6**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dss222

---

dss2310

*Dataset for Section 23.10*

---

**Description**

Dataset for Section 23.10

**Usage**

dss2310

**Format**

A data.frame with 24 rows and 3 variables:

**rown**

**column**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dss2310

---

dst021

*Dataset from Table 02.1*

---

**Description**

Dataset from Table 02.1

**Usage**

dst021

**Format**

A data.frame with 23 rows and 3 variables:

**time\_order**

**y**

**x**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst021

---

dst032

*Dataset from Table 03.2*

---

**Description**

Dataset from Table 03.2

**Usage**

dst032

**Format**

A data.frame with 49 rows and 3 variables:

**v26**

**logs**

**z**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst032

---

dst033

*Dataset from Table 03.3*

---

**Description**

Dataset from Table 03.3

**Usage**

dst033

**Format**

A data.frame with 20 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst033

---

dst081

*Dataset from Table 08.1*

---

**Description**

Dataset from Table 08.1

**Usage**

dst081

**Format**

A data . frame with 21 rows and 2 variables:

x

y

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst081

---

dst121

*Dataset from Table 12.1*

---

**Description**

Dataset from Table 12.1

**Usage**

dst121

**Format**

A data.frame with 20 rows and 5 variables:

**x1**

**x2**

**x3**

**y**

**y4**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst121

---

dst132

*Dataset from Table 13.2*

---

**Description**

Dataset from Table 13.2

**Usage**

dst132

**Format**

A data.frame with 23 rows and 3 variables:

**p**

**f**

**Y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst132

---

dst134                      *Dataset from Table 13.4*

---

**Description**

Dataset from Table 13.4

**Usage**

dst134

**Format**

A data . frame with 23 rows and 3 variables:

**p**  
**f**  
**lny**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst134

---

dst141                      *Dataset from Table 14.1*

---

**Description**

Dataset from Table 14.1

**Usage**

dst141

**Format**

A data . frame with 13 rows and 4 variables:

**x**  
**z1**  
**z2**  
**y**



**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst141

---

dst144                      *Dataset from Table 14.4*

---

**Description**

Dataset from Table 14.4

**Usage**

dst144

**Format**

A data.frame with 9 rows and 4 variables:

**x0**

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst144

---

dst145                      *Dataset from Table 14.5*

---

**Description**

Dataset from Table 14.5

**Usage**

dst145

**Format**

A data.frame with 9 rows and 4 variables:

**x0**

**x1**

**x2**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst145

---

dst146                      *Dataset from Table 14.6*

---

**Description**

Dataset from Table 14.6

**Usage**

dst146

**Format**

A data.frame with 9 rows and 5 variables:

**x0**

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst146

---

dst181

*Dataset from Table 18.1*

---

**Description**

Dataset from Table 18.1

**Usage**

dst181

**Format**

A data.frame with 10 rows and 3 variables:

**areaa**

**areab**

**month**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst181

---

dst191

*Dataset from Table 19.1*

---

**Description**

Dataset from Table 19.1

**Usage**

dst191

**Format**

A data frame with 10 rows and 4 variables:

**x1**

**x2**

**x3**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst191

---

dst192

*Dataset from Table 19.2*

---

**Description**

Dataset from Table 19.2

**Usage**

dst192

**Format**

A data . frame with 36 rows and 8 variables:

**z2**

**z3**

**z4**

**x1**

**x2**

**x3**

**x4**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst192

---

dst232

*Dataset from Table 23.2*

---

**Description**

Dataset from Table 23.2

**Usage**

dst232

**Format**

A data . frame with 30 rows and 2 variables:

**group**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst232

---

dst242

*Dataset from Table 24.2*

---

**Description**

Dataset from Table 24.2

**Usage**

dst242

**Format**

A data.frame with 44 rows and 2 variables:

**x**

**y**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst242

---

dst252

*Dataset from Table 25.2*

---

**Description**

Dataset from Table 25.2

**Usage**

dst252

**Format**

A data.frame with 20 rows and 3 variables:

**type**

**y1974**

**y1992**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst252

---

dst253	<i>Dataset from Table 25.3</i>
--------	--------------------------------

---

**Description**

Dataset from Table 25.3

**Usage**

dst253

**Format**

A data . frame with 25 rows and 2 variables:

**height**

**diameter**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst253

---

dst261	<i>Dataset from Table 26.1</i>
--------	--------------------------------

---

**Description**

Dataset from Table 26.1

**Usage**

dst261

**Format**

A data.frame with 10 rows and 2 variables:

**x1974**

**y1992**

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dst261

---

dsx161

*Dataset for Example 1, Chapter 16*

---

**Description**

Dataset for Example 1, Chapter 16

**Usage**

dsx161

**Format**

A matrix with 6 rows and 5 columns.

**Source**

Draper, N.R., Smith, H., (1998) Applied Regression Analysis, 3rd ed., New York: Wiley

**Examples**

dsx161



# Index

## \*Topic **datasets**

dsa01a, [5](#)  
dsa06b, [6](#)  
dsa15a, [7](#)  
dse03a, [7](#)  
dse03aa, [8](#)  
dse03bb, [9](#)  
dse03c, [9](#)  
dse03cc, [10](#)  
dse03dd, [10](#)  
dse03e, [11](#)  
dse03ee, [12](#)  
dse03f, [12](#)  
dse03g, [13](#)  
dse03gg, [13](#)  
dse03h, [14](#)  
dse03hh, [14](#)  
dse03i, [15](#)  
dse03ii, [16](#)  
dse03j, [16](#)  
dse03jj, [17](#)  
dse03jj2, [17](#)  
dse03jj3, [18](#)  
dse03k, [18](#)  
dse03kk, [19](#)  
dse03ll, [20](#)  
dse03n, [20](#)  
dse03o, [21](#)  
dse03r, [21](#)  
dse03v, [22](#)  
dse03w, [22](#)  
dse03x, [23](#)  
dse03z, [24](#)  
dse04d, [24](#)  
dse04e, [25](#)  
dse04f, [25](#)  
dse06a, [26](#)  
dse06b, [27](#)  
dse06c, [27](#)  
dse06d, [28](#)  
dse06e, [29](#)  
dse06f, [29](#)  
dse06g, [30](#)  
dse06h, [31](#)  
dse06i, [31](#)  
dse06j, [32](#)  
dse06k, [33](#)  
dse06l, [33](#)  
dse06z, [34](#)  
dse07b, [34](#)  
dse07c, [35](#)  
dse08b, [36](#)  
dse09b, [36](#)  
dse12a, [37](#)  
dse12b, [38](#)  
dse12c, [38](#)  
dse12d, [39](#)  
dse12e, [40](#)  
dse12h, [40](#)  
dse13a, [41](#)  
dse13b, [42](#)  
dse13c, [42](#)  
dse13d, [43](#)  
dse13e, [44](#)  
dse13f, [44](#)  
dse13g, [45](#)  
dse13h, [46](#)  
dse14b, [46](#)  
dse14c, [47](#)  
dse14d, [48](#)  
dse14e, [48](#)  
dse14f, [49](#)  
dse14g, [50](#)  
dse14j, [50](#)  
dse14l, [51](#)  
dse14q, [52](#)  
dse14r, [52](#)  
dse14s, [53](#)

- dse14t, [54](#)
- dse14u, [54](#)
- dse15a, [55](#)
- dse15b, [56](#)
- dse15c, [56](#)
- dse15e, [57](#)
- dse15f, [58](#)
- dse15h, [59](#)
- dse15i, [60](#)
- dse15j, [60](#)
- dse15k, [61](#)
- dse15l, [62](#)
- dse15n, [62](#)
- dse15p, [63](#)
- dse16a, [64](#)
- dse16b, [64](#)
- dse16c, [65](#)
- dse16d, [66](#)
- dse17b, [66](#)
- dse19d, [67](#)
- dse22a, [68](#)
- dse22b, [69](#)
- dse22c, [69](#)
- dse22d, [70](#)
- dse22e, [71](#)
- dse22f, [72](#)
- dse22g, [72](#)
- dse23a\_a, [73](#)
- dse23a\_b, [74](#)
- dse23d, [74](#)
- dse23e, [75](#)
- dse23f, [76](#)
- dse23g\_1, [76](#)
- dse23g\_2, [77](#)
- dse23h, [78](#)
- dse24a, [79](#)
- dse24b, [79](#)
- dse24c, [80](#)
- dse24d, [80](#)
- dse24e, [81](#)
- dse24g, [81](#)
- dse24h, [82](#)
- dse24i, [83](#)
- dse24j, [83](#)
- dse24k, [84](#)
- dse24l, [84](#)
- dse24m, [85](#)
- dse24n, [86](#)
- dse24o, [86](#)
- dse24p, [87](#)
- dsq23\_3\_3, [88](#)
- dsq23\_3\_7, [88](#)
- dsq23\_7\_5, [89](#)
- dss217, [90](#)
- dss222, [91](#)
- dss2310, [91](#)
- dst021, [92](#)
- dst032, [93](#)
- dst033, [93](#)
- dst081, [94](#)
- dst121, [94](#)
- dst132, [95](#)
- dst134, [96](#)
- dst141, [96](#)
- dst144, [97](#)
- dst145, [98](#)
- dst146, [98](#)
- dst181, [99](#)
- dst191, [100](#)
- dst192, [100](#)
- dst232, [101](#)
- dst242, [102](#)
- dst252, [102](#)
- dst253, [103](#)
- dst261, [103](#)
- dsx161, [104](#)
- aprean3, [5](#)
- aprean3-package (aprean3), [5](#)
- dsa01a, [5](#)
- dsa06b, [6](#)
- dsa15a, [7](#)
- dse03a, [7](#)
- dse03aa, [8](#)
- dse03bb, [9](#)
- dse03c, [9](#)
- dse03cc, [10](#)
- dse03dd, [10](#)
- dse03e, [11](#)
- dse03ee, [12](#)
- dse03f, [12](#)
- dse03g, [13](#)
- dse03gg, [13](#)
- dse03h, [14](#)
- dse03hh, [14](#)
- dse03i, [15](#)

dse03ii, 16  
dse03j, 16  
dse03jj, 17  
dse03jj2, 17  
dse03jj3, 18  
dse03k, 18  
dse03kk, 19  
dse03ll, 20  
dse03n, 20  
dse03o, 21  
dse03r, 21  
dse03v, 22  
dse03w, 22  
dse03x, 23  
dse03z, 24  
dse04d, 24  
dse04e, 25  
dse04f, 25  
dse06a, 26  
dse06b, 27  
dse06c, 27  
dse06d, 28  
dse06e, 29  
dse06f, 29  
dse06g, 30  
dse06h, 31  
dse06i, 31  
dse06j, 32  
dse06k, 33  
dse06l, 33  
dse06z, 34  
dse07b, 34  
dse07c, 35  
dse08b, 36  
dse09b, 36  
dse12a, 37  
dse12b, 38  
dse12c, 38  
dse12d, 39  
dse12e, 40  
dse12h, 40  
dse13a, 41  
dse13b, 42  
dse13c, 42  
dse13d, 43  
dse13e, 44  
dse13f, 44  
dse13g, 45  
dse13h, 46  
dse14b, 46  
dse14c, 47  
dse14d, 48  
dse14e, 48  
dse14f, 49  
dse14g, 50  
dse14j, 50  
dse14l, 51  
dse14q, 52  
dse14r, 52  
dse14s, 53  
dse14t, 54  
dse14u, 54  
dse15a, 55  
dse15b, 56  
dse15c, 56  
dse15e, 57  
dse15f, 58  
dse15h, 59  
dse15i, 60  
dse15j, 60  
dse15k, 61  
dse15l, 62  
dse15n, 62  
dse15p, 63  
dse16a, 64  
dse16b, 64  
dse16c, 65  
dse16d, 66  
dse17b, 66  
dse19d, 67  
dse22a, 68  
dse22b, 69  
dse22c, 69  
dse22d, 70  
dse22e, 71  
dse22f, 72  
dse22g, 72  
dse23a\_a, 73  
dse23a\_b, 74  
dse23d, 74  
dse23e, 75  
dse23f, 76  
dse23g\_1, 76  
dse23g\_2, 77  
dse23h, 78  
dse24a, 79

dse24b, [79](#)  
dse24c, [80](#)  
dse24d, [80](#)  
dse24e, [81](#)  
dse24g, [81](#)  
dse24h, [82](#)  
dse24i, [83](#)  
dse24j, [83](#)  
dse24k, [84](#)  
dse24l, [84](#)  
dse24m, [85](#)  
dse24n, [86](#)  
dse24o, [86](#)  
dse24p, [87](#)  
dsq23\_3\_3, [88](#)  
dsq23\_3\_7, [88](#)  
dsq23\_7\_5, [89](#)  
dss217, [90](#)  
dss222, [91](#)  
dss2310, [91](#)  
dst021, [92](#)  
dst032, [93](#)  
dst033, [93](#)  
dst081, [94](#)  
dst121, [94](#)  
dst132, [95](#)  
dst134, [96](#)  
dst141, [96](#)  
dst144, [97](#)  
dst145, [98](#)  
dst146, [98](#)  
dst181, [99](#)  
dst191, [100](#)  
dst192, [100](#)  
dst232, [101](#)  
dst242, [102](#)  
dst252, [102](#)  
dst253, [103](#)  
dst261, [103](#)  
dsx161, [104](#)