

Carbon Dioxide Uptake in Grass Plants

Description

The CO2 data frame has 84 rows and 5 columns of data from an experiment on the cold tolerance of the grass species *Echinochloa crus-galli*.

Usage

CO2

Format

An object of class `c("nfnGroupedData", "nfGroupedData", "groupedData", "data.frame")` containing the following columns:

Plant

An ordered factor with levels `Qn1 < Qn2 < Qn3 < ... < Mc1` giving a unique identifier for each plant.

Type

a factor with levels `Quebec Mississippi` giving the origin of the plant

Treatment

a factor with levels `nonchilled chilled`

conc

a numeric vector of ambient carbon dioxide concentrations (mL/L).

uptake

a numeric vector of carbon dioxide uptake rates ($\mu\text{mol}/\text{m}^2\text{sec}$).

Dataset:

	Plant	Type	Treatment	conc	uptake
1	Qn1	Quebec	nonchilled	95	16.0
2	Qn1	Quebec	nonchilled	175	30.4
3	Qn1	Quebec	nonchilled	250	34.8
4	Qn1	Quebec	nonchilled	350	37.2
5	Qn1	Quebec	nonchilled	500	35.3
6	Qn1	Quebec	nonchilled	675	39.2
7	Qn1	Quebec	nonchilled	1000	39.7
8	Qn2	Quebec	nonchilled	95	13.6
9	Qn2	Quebec	nonchilled	175	27.3
10	Qn2	Quebec	nonchilled	250	37.1
11	Qn2	Quebec	nonchilled	350	41.8
12	Qn2	Quebec	nonchilled	500	40.6
13	Qn2	Quebec	nonchilled	675	41.4
14	Qn2	Quebec	nonchilled	1000	44.3

15	Qn3	Quebec nonchilled	95	16.2
16	Qn3	Quebec nonchilled	175	32.4
17	Qn3	Quebec nonchilled	250	40.3
18	Qn3	Quebec nonchilled	350	42.1
19	Qn3	Quebec nonchilled	500	42.9
20	Qn3	Quebec nonchilled	675	43.9
21	Qn3	Quebec nonchilled	1000	45.5
22	Qc1	Quebec chilled	95	14.2
23	Qc1	Quebec chilled	175	24.1
24	Qc1	Quebec chilled	250	30.3
25	Qc1	Quebec chilled	350	34.6
26	Qc1	Quebec chilled	500	32.5
27	Qc1	Quebec chilled	675	35.4
28	Qc1	Quebec chilled	1000	38.7
29	Qc2	Quebec chilled	95	9.3
30	Qc2	Quebec chilled	175	27.3
31	Qc2	Quebec chilled	250	35.0
32	Qc2	Quebec chilled	350	38.8
33	Qc2	Quebec chilled	500	38.6
34	Qc2	Quebec chilled	675	37.5
35	Qc2	Quebec chilled	1000	42.4
36	Qc3	Quebec chilled	95	15.1
37	Qc3	Quebec chilled	175	21.0
38	Qc3	Quebec chilled	250	38.1
39	Qc3	Quebec chilled	350	34.0
40	Qc3	Quebec chilled	500	38.9
41	Qc3	Quebec chilled	675	39.6
42	Qc3	Quebec chilled	1000	41.4
43	Mn1	Mississippi nonchilled	95	10.6
44	Mn1	Mississippi nonchilled	175	19.2
45	Mn1	Mississippi nonchilled	250	26.2
46	Mn1	Mississippi nonchilled	350	30.0
47	Mn1	Mississippi nonchilled	500	30.9
48	Mn1	Mississippi nonchilled	675	32.4

49	Mn1	Mississippi	nonchilled	1000	35.5
50	Mn2	Mississippi	nonchilled	95	12.0
51	Mn2	Mississippi	nonchilled	175	22.0
52	Mn2	Mississippi	nonchilled	250	30.6
53	Mn2	Mississippi	nonchilled	350	31.8
54	Mn2	Mississippi	nonchilled	500	32.4
55	Mn2	Mississippi	nonchilled	675	31.1
56	Mn2	Mississippi	nonchilled	1000	31.5
57	Mn3	Mississippi	nonchilled	95	11.3
58	Mn3	Mississippi	nonchilled	175	19.4
59	Mn3	Mississippi	nonchilled	250	25.8
60	Mn3	Mississippi	nonchilled	350	27.9
61	Mn3	Mississippi	nonchilled	500	28.5
62	Mn3	Mississippi	nonchilled	675	28.1
63	Mn3	Mississippi	nonchilled	1000	27.8
64	Mc1	Mississippi	chilled	95	10.5
65	Mc1	Mississippi	chilled	175	14.9
66	Mc1	Mississippi	chilled	250	18.1
67	Mc1	Mississippi	chilled	350	18.9
68	Mc1	Mississippi	chilled	500	19.5
69	Mc1	Mississippi	chilled	675	22.2
70	Mc1	Mississippi	chilled	1000	21.9
71	Mc2	Mississippi	chilled	95	7.7
72	Mc2	Mississippi	chilled	175	11.4
73	Mc2	Mississippi	chilled	250	12.3
74	Mc2	Mississippi	chilled	350	13.0
75	Mc2	Mississippi	chilled	500	12.5
76	Mc2	Mississippi	chilled	675	13.7
77	Mc2	Mississippi	chilled	1000	14.4
78	Mc3	Mississippi	chilled	95	10.6
79	Mc3	Mississippi	chilled	175	18.0
80	Mc3	Mississippi	chilled	250	17.9
81	Mc3	Mississippi	chilled	350	17.9
82	Mc3	Mississippi	chilled	500	17.9

83 Mc3 Mississippi chilled 675 18.9

84 Mc3 Mississippi chilled 1000 19.9