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99/R/CS/499 Panicum Virgatum and Nitrogen - Grass

Rothamsted Research

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99/R/CS/498

TOTAL DRY WEIGHT TONNES/HECTARE

***** Tables of means *****

CULTIVAR	
A	6.56
B	10.24
C	10.09
D	10.31
E	5.71
F	8.40
G	6.90
H	4.63
I	7.64
J	9.09
K	5.89
L	7.73
M	12.38
N	5.77
O	5.78
X1	7.84*
X2	8.43*
X3	11.55*
Mean	7.81

* Unreplicated and not included in analysis or mean

*** Standard errors of differences of means ***

CULTIVAR
1.626

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	26	1.992	25.5
MEAN DM%	64.1		
PLOT AREA HARVESTED	0.00019		

99/R/CS/499

PANICUM VIRGATUM AND NITROGEN

Object: To test cultivars of *Panicum* with and without nitrogen for biomass production - Road Piece West.

Sponsors: D.G. Christian.

The second year, grass.

Design: 3 randomised blocks of 5 x 2 + 3 + 1.

Whole plot dimensions: 5.0 x 8.0.

Treatments: All combinations of:-

1. **CULTIVAR**

B	Blackwell
CT	Carthage
CR	Cave-in-Rock
P	Pangburn
S	Summer

2. **NITROGEN** Kg N:

N-	None
N3	75

EXTRA Cultivar Cave-in-Rock, nitrogen kg N:

N1	25
N2	50
N4	150

Plus an extra plot per block for destructive sampling, no yields

Experimental diary:

20-May-98 : B : : tm)Roundup at 4.0 l in 200 l.
: B : : tm)LI-700 at 1.0 l in 200 l.
16-Jun-98 : B : : Muriate of potash at 190 kg, triple superphosphate at
247 kg.
22-Jun-98 : B : : Rotary harrowed.
: T : : Cultivars drilled with the Oyjord drill.
24-Jun-98 : B : : Cambridge rolled.
24-Jul-98 : B : : Basagran SG at 1.1 l in 200 l.
06-Aug-98 : B : : Swipe 560 EC at 3.5 l in 200 l.
26-Jan-99 : B : : Cut.
12-Mar-99 : B : : tm)PDQ at 3.0 l in 200 l.
: B : : tm)Enhance at 100 ml in 200 l.
09-Apr-99 : B : : Gesaprim at 3.0 l in 200 l.
19-Apr-99 : B : : tm)PDQ at 3.0 l in 200 l.
: B : : tm)Enhance at 100 ml in 200 l.
14-May-99 : B : : Dow Shield at 0.5 l in 220 l, spot treated thistles.
: B : : Duplosan at 2.3 l in 220 l, spot treated nettles.
21-May-99 : B : : Hardy at 15 kg.
15-Jun-99 : B : : Dow Shield at 1.0 l in 220 l, spot treated thistles.
17-Jun-99 : T : : Nitrogen treatments applied as 34.5% N.
17-Jan-00 : B : : Cut for yield.
25-Jan-00 : B : : Cut and cleared started.
28-Jan-00 : B : : Cut and cleared finished.