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00/R/CS/411 Panicum Study - Grass

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Rothamsted Research (2001) *00/R/CS/411 Panicum Study - Grass* ; Yields Of The Field Experiments 2000, pp 70 - 71 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/CS/411

PANICUM STUDY

Object: To quantify the biomass yield potential of varieties of *Panicum virgatum* species - Road Piece West.

Sponsor: D.G. Christian.

The eighth year, grass.

For previous year see 94-99/R/CS/411

Design: 3 randomised blocks of 7 x 2 plots.

Whole plot dimensions: 5.0 x 2.0.

Treatments: All combinations of:-

1. **SPECIES**

CAVIN R	Cave-in-Rock
KANLOW	Kanlow
PATHFIND	Pathfinder
SUNBURST	Sunburst
FORESTB	Forestburg
NEBR 28	Nebraska 28
DACOTAH	Dacotah

2. **N** Nitrogen fertilizer, kg N cumulative to previous annual dressings:

-	None
N1	60

Experimental diary:

01-Apr-00 : B : : Alpha Glyphogan at 4.0 l in 220 l.
19-May-00 : B : : Muriate of potash at 462 kg. Triple superphosphate at 291 kg.
26-May-00 : T : N1 : 34.5% N at 174 kg.
16-Jun-00 : B : : Starane 2 at 1.0 l in 300 l.
23-Jun-00 : B : : Dow Shield at 1.0 l in 220 l, spot sprayed thistles.
16-Jan-01 : B : : Cut.

NOTES: (1) Harvested samples were analysed for chemical content.
(2) The yield of one plot, with treatment combination **SPECIES FORESTB N** - was lost because of an error in weighing. An estimate was used in the analysis.

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DRY MATTER TONNES/HECTARE

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

	N	-	N1	Mean
SPECIES				
CAVIN R	9.26		11.26	10.26
KANLOW	11.67		10.37	11.02
PATHFIND	8.42		8.31	8.36
SUNBURST	8.69		7.73	8.21
FORESTB	9.07		7.59	8.33
NEBR 28	9.81		9.69	9.75
DACOTAH	5.55		7.39	6.47
Mean	8.92		8.91	8.91

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

SPECIES	N	SPECIES
		N
0.803	0.429	1.136

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	25	1.391	15.6
MEAN DM%	74.5		
PLOT AREA HARVESTED	0.00068		