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98/R/CS/411 Panicum Spp Study - Grass

Rothamsted Research

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98/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 sixth year, grass.

For previous year see 94-97/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. VARIETY

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 dressings:

-	None
N1	60

Experimental diary:

19-Feb-98 : B : Barclay Gallup at 4.0 l in 220 l.
08-May-98 : T : Dow Shield at 0.5 l in 220 l, spot treated thistles.
04-Jun-98 : B : Dow Shield at 1.0 l in 220 l.
05-Jun-98 : T : N N1: 34.5% N at 174 kg.
16-Jun-98 : B : Muriate of potash at 190 kg. Triple superphosphate at 230 kg.
25-Jan-99 : B : Hand harvested.

98/R/CS/411

DRY MATTER TONNES/HECTARE

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

	N	-	N1	Mean
VARIETY				
CAVIN R	13.61		11.33	12.47
KANLOW	12.27		12.78	12.53
PATHFIND	10.37		9.69	10.03
SUNBURST	10.35		9.54	9.95
FORESTB	10.36		8.77	9.57
NEBR 28	10.74		12.13	11.44
DACOTAH	8.01		9.36	8.69
Mean	10.82		10.52	10.67

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

VARIETY	N	VARIETY
		N
1.168	0.624	1.651

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	26	2.023	19.0
MEAN DM%	48.8		
PLOT AREA HARVESTED	0.00047		