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

Rothamsted Research

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95/R/CS/411

PANICUM STUDY

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

Sponsor: D.G. Christian.

The third year, grass.

For previous year see 94/R/CS/411

Design: 3 blocks of 7 x 2 plots.

Whole plot dimensions: 5.0 x 2.0.

Treatments:

1. **VARIETY**

CAVIN R	Cave in Rock
KANLOW	Kanlow
PATHFIND	Pathfinder
SUNBURST	Sunburst
FOREST B	Forest Burg
NEBR 28	NEBR 28
DAKOTAH	Dakotah

2. **N** Nitrogen fertilizer, kg N:

-	None
N1	60

Experimental diary:

02-May-95 : B : Duplosan New System CMPP at 2.5 l with Oxytril CM at 1.4 l in 200 l.
15-May-95 : T : N N1: 34.5% N at 174 kg.
22-Jun-95 : B : Duplosan New System CMPP at 2.5 l with Oxytril CM at 1.4 l in 200 l.
23-Oct-95 : T : **VARIETY** DAKOTAH: Cut.
14-Dec-95 : T : **VARIETY** FOREST B, SUNBURST: Cut.
04-Jan-96 : T : **VARIETY** NEBR 28, PATHFIND: Cut.
06-Feb-96 : T : **VARIETY** KANLOW: Cut.
08-Feb-96 : T : **VARIETY** CAVIN R: Cut.

NOTE: Soil nitrogen was measured in April. Height was measured and samples taken for biomass in September. Harvest samples were analysed for N,P and K.

95/R/CS/411

DRY MATTER TONNES/HECTARE

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

NITROGEN	-	N1	Mean
VARIETY			
CAVIN R	8.11	8.03	8.07
KANLOW	7.10	5.34	6.22
PATHFIND	8.48	8.22	8.35
SUNBURST	6.98	8.05	7.51
FOREST B	7.35	8.72	8.04
NEBR 28	8.59	7.30	7.95
DAKOTAH	5.28	5.70	5.49
Mean	7.41	7.34	7.37

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

VARIETY	NITROGEN	VARIETY
		NITROGEN
0.374	0.200	0.529

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	26	0.647	8.8
MEAN DM%		57.3	
PLOT AREA HARVESTED	0.00011		