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

Rothamsted Research

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96/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 fourth year, grass.

For previous year see 94-5/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:

04-Apr-96 : **T** : **VARIETY** KANLOW: Stefes IPU at 4.0 l in 220 l.
23-May-96 : **T** : **N** N1: 34.5% N at 174 kg.
05-Jun-96 : **B** : Duplosan New System CMPP at 2.5 l with Oxytril CM at 0.9 l in 200 l.
27-Nov-96 : **T** : **VARIETY** FOREST B, DAKOTAH: Hand harvested
30-Jan-97 : **T** : Hand harvested remaining varieties.

NOTE: Plants were sampled after flowering to assess stem numbers and dry matter.

96/R/CS/411

DRY MATTER TONNES/HECTARE

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

VARIETY	N	-	N1	Mean
CAVIN R	10.88		10.11	10.50
KANLOW	12.48		10.78	11.63
PATHFIND	9.91		9.01	9.46
SUNBURST	7.36		8.60	7.98
FOREST B	11.72		9.95	10.84
NEBR 28	10.56		9.27	9.92
DAKOTAH	5.40		5.37	5.38
Mean	9.76		9.01	9.39

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

VARIETY	N	VARIETY	N
1.014	0.542	1.434	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	26	1.757	18.7

MEAN DM% 67.2

PLOT AREA HARVESTED 0.00011