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## Yields of the Field Experiments 1999

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### 99/R/CS/498 Panicum Virgatum Study - Grass

#### Rothamsted Research

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99/W/CS/497

**GRAIN (AT 90% DRY MATTER) TONNES/HECTARE**

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

**SULPHUR**

SO	0.47
S1	0.57
S2	0.81
S3	0.89
S4	0.96
S5	0.82

Mean	0.75
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\*\*\* Standard errors of differences of means \*\*\*

**SULPHUR**

0.067

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.095	12.6
GRAIN MEAN DM%	87.0		
PLOT AREA HARVESTED	0.00230		

99/R/CS/498

**PANICUM VIRGATUM STUDY**

**Object:** To test *Panicum* cultivars for biomass production - Highfield IV/Road Piece East.

**Sponsors:** D. G. Christian.

The second year, grass.

**Design:** 3 randomised blocks of 16 plots.

**Whole plot dimensions:** 2.0 x 4.5.

Treatments:

**CULTIVAR**

A	Alamo
B	Blackwell
C	Caddo
D	Cave-in-Rock
E	Forestburg
F	Kanlow
G	Nebraska-28
H	NI 93-1
I	NI 93-2
J	NU 94-2
K	Reap 921
L	Shelter
M	SU 94-1
N	9005439
O	9005438

Plus 3 unreplicated plots of mixtures

X1	G+K
X2	B+L
X3	F+Carthage

**Experimental diary:**

13-May-98 : B : : Ploughed  
14-May-98 : B : : Rolled.  
16-Jun-98 : B : : Muriate of potash at 190 kg, triple superphosphate at 247 kg.  
22-Jun-98 : B : : Rotary harrowed twice.  
                  : T : : Cultivars drilled with Oyjord drill.  
24-Jun-98 : B : : 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 500 SC at 3.0 l in 200 l.  
21-May-99 : B : : Hardy at 15 kg.  
20-Dec-99 : B : : Cut for yield.  
25-Jan-00 : B : : Cut and cleared.

**NOTES:** (1) The yield of two plots, with **CULTIVAR** H were lost because of poor establishment. An estimate was used in the analysis.  
(2) The yields for 1998, crop establishment year were negligible and are not published.

Previous crops: Fallow 1996, mixed cereal 1997, sown to w. wheat for 1998 and ploughed out in May.