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98/R/CS/442 Phalaris Lines

Rothamsted Research

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98/R/CS/442

PHALARIS LINES

Object: To assess the growth and yield of *Phalaris* lines for biofuel - Road Piece West.

Sponsor: D.G. Christian.

The fourth year.

For previous years see 96-97/R/CS/442.

Design: 6 randomised blocks of 15 plots.

Whole plot dimensions: 1.5 x 2.5.

Treatments:

LINES	<i>Phalaris</i> lines:
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I
10	J
11	K
12	L
13	M
14	N
15	O

Experimental diary:

27-Apr-98 : B : MSS Optica at 2.0 l in 220 l.
08-May-98 : B : Spannit at 1.5 l in 220 l.
18-May-98 : B : 34.5% N at 291 kg.
22-May-98 : B : Starane 2 at 1.0 l in 220 l.
15-Jun-98 : B : Triple superphosphate at 140 kg.
16-Jun-98 : B : Muriate of potash at 190 kg.
27-Jul-98 : B : BASF Dimethoate 40 at 1.7 l in 200 l.
21-Dec-98 : T : Hand harvested three replicates.
03-Feb-99 : T : Hand harvested remaining three replicates.

- NOTES:** (1) Ground cover, stem height, date and duration of flowering were recorded. Incidence of pests and diseases were also recorded.
(2) **LINES** 3 and 4 failed to grow and have been omitted from the analysis.
(3) Yields presented come from the hand harvest on 03-Feb-99.

98/R/CS/442

DRY MATTER TONNES/HECTARE

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

LINES	
1	7.45
2	7.43
5	7.30
6	5.37
7	8.80
8	8.56
9	6.27
10	6.58
11	6.17
12	5.54
13	6.96
14	8.19
15	6.55
Mean	7.01

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

LINES
1.249

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	1.529	21.8
MEAN DM%	73.1		
PLOT AREA HARVESTED	0.00023		