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Yields of the Field Experiments 1997

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97/R/CS/442 Phalaris Lines - Grass

Rothamsted Research

Rothamsted Research (1998) *97/R/CS/442 Phalaris Lines - Grass* ; Yields Of The Field Experiments 1997, pp 82 - 84 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

97/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 third year.

For previous years see 96/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:

- 10-Apr-97 : B : Muriate of potash at 180 kg, triple superphosphate at 140 kg and 34.5% N at 348 kg.
- 13-May-97 : B : Atlas Dimethoate 40 at 1.7 l in 220 l.
- 04-Dec-97 : T : Hand harvested three replicates.
- 29-Jan-98 : T : Hand harvested remaining three blocks.

- NOTES:**
- (1) During the growing period observations were made on crop height, ground cover, flower emergence, lodging and duration of green leaf.
 - (2) Yields presented come from the hand harvest on 29-Jan-98.
 - (3) **LINES** 3, 4 failed to grow and have been omitted from the analysis.

97/R/CS/442

DRY MATTER TONNES/HECTARE

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

LINES	
1	7.00
2	6.90
5	6.44
6	5.06
7	6.46
8	9.29
9	7.15
10	8.91
11	7.99
12	6.19
13	7.19
14	7.46
15	8.15
Mean	7.25

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

LINES
1.028

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	1.259	17.4
MEAN DM%	72.2		
PLOT AREA HARVESTED	0.00023		

The wrong plot area was used in the 1996 analysis. The corrected yields follow.

96/R/CS/442

DRY MATTER TONNES/HECTARE

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

LINES	
1	9.65
2	8.69
3	0.96
4	1.15
5	8.54
6	5.75
7	9.71
8	9.13
9	7.46
10	8.74
11	8.91
12	7.66
13	8.29
14	9.07
15	5.92
Mean	7.31

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

LINES
1.128

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	28	1.382	18.9
MEAN DM%	78.6		
PLOT AREA HARVESTED	0.00023		