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96/R/CS/442 Phalaris Lines

Rothamsted Research

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96/R/CS/442

PHALARIS LINES

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

Sponsor: D.G. Christian.

Design: 6 randomised blocks of 15 plots.

Whole plot dimensions: 1.25 x 2.25.

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:

23-May-95 : T : LINES 1-15: Transplanted.

29-Apr-96 : B : Muriate of potash at 180 kg, triple superphosphate at 49 kg and 34.5% N at 348 kg.

13-May-96 : B : Duplosan New System CMPP at 2.5 l with Oxytril CM at 1.4 l in 200 l.

07-Jan-97 : T : Hand harvested three blocks.

05-Feb-97 : T : Hand harvested remaining three blocks.

- NOTES:**
- (1) Visual assessments were made of ground cover, stem height, leaf colour, date of flowering and incidence of diseases during the season.
 - (2) In the early harvested blocks, one plot of Line B was exchanged with one plot of Line B in the late harvested blocks.
 - (3) The yields presented are from the harvest on 07-Jan-97.

96/R/CS/442

DRY MATTER TONNES/HECTARE

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

LINES

| | |
|----|-------|
| 1 | 10.72 |
| 2 | 9.65 |
| 3 | 1.06 |
| 4 | 1.28 |
| 5 | 9.49 |
| 6 | 6.39 |
| 7 | 10.79 |
| 8 | 10.14 |
| 9 | 8.29 |
| 10 | 9.71 |
| 11 | 9.90 |
| 12 | 8.51 |
| 13 | 9.21 |
| 14 | 10.08 |
| 15 | 6.58 |

Mean 8.12

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

LINES

1.254

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

| Stratum | d.f. | s.e. | cv% |
|----------|------|-------|------|
| BLOCK.WP | 28 | 1.535 | 18.9 |

MEAN DM% 78.6

PLOT AREA HARVESTED 0.00020