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92/R/PE/2 Spring Pea Breeders Lines - Peas

Rothamsted Research

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92/R/PE/2

PEAS

BREEDER'S LINES

Object: To evaluate the protein content and yield of new pea lines - Long Hoos VI/VII 5.

Sponsors: G.F.J. Milford, J.M. Day.

Design: 3 randomised blocks of 13 plots.

Whole plot dimensions: 2.0 x 10.0.

Treatments:

LINE Code number of breeder's line:

42-5
30-4
30-5
53-16
53-17
53-18
53-19
53-20
53-21
53-22
53-23
53-24
53-25

Experimental diary:

16-Mar-92 : B : Deep tine cultivated.
09-Apr-92 : B : Heavy spring-tine cultivated.
 : B : Rotary harrowed.
10-Apr-92 : B : Drilled at 320 kg, rolled.
03-Jun-92 : B : Fortrol at 2.0 l and Trifolex-Tra at 2.0 l in 200 l.
22-Jun-92 : B : Chiltern Chlorothalonil 500 at 3.0 l and Aphox at
 0.28 kg in 260 l.
29-Jul-92 : T : **LINE** 30-4: Cut and threshed.
31-Jul-92 : T : **LINE** 53-20, 53-24, 53-25: Cut and threshed.
03-Aug-92 : T : **LINE** 30-5, 53-16, 53-17, 53-22: Cut and threshed.
05-Aug-92 : T : **LINE** 42-5, 53-19, 53-21: Cut and threshed.
10-Aug-92 : T : **LINE** 53-23: Cut and threshed.

- NOTES:**
- (1) Experiment was preceded by w. lupins, which were sown in autumn 1991 and subsequently failed.
 - (2) Each line was cut by hand and threshed by stationary combine harvester.
 - (3) With the following lines one of the three plots was cut and threshed on a different day: **LINE** 42-5 and 53-21 on 3 Aug and 53-19 on 10 Aug.
 - (4) **LINE** 53-18 one plot cut and threshed on 3 Aug, one on 5 Aug, one plot not cut.

92/R/PE/2

Previous crops: W. lupins 1990, s. wheat 1991.

GRAIN TONNES/HECTARE

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

LINE	
42-5	4.87
30-4	4.41
30-5	5.20
53-16	5.13
53-17	4.94
53-18	5.23
53-19	3.99
53-20	4.61
53-21	4.18
53-22	4.67
53-23	3.92
53-24	4.55
53-25	4.81
Mean	4.66

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

LINE
0.382

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	0.467	10.0
GRAIN MEAN DM%	88.0		
PLOT AREA HARVESTED	0.00194		