

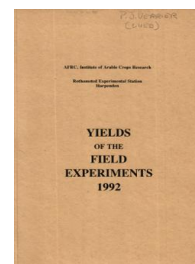
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92/R/PE/2 Spring Pea Breeders Lines - Peas

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 time cultivated.
09-Apr-92 : B : Heavy spring-time cultivated.
 : B : Rotary harrowed.
10-Apr-92 : B : Drilled at 320 kg, rolled.
03-Jun-92 : B : Fortrol at 2.0 l and Triflex-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		