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Yields of the Field Experiments 1995

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95/R/LP/1 Lupin Varieties - Lupins

Rothamsted Research

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95/R/LP/1

LUPINS

LUPIN VARIETIES

Object: To assess the overwinter survival, crop structure, yield potential and maturity date of nine lines of autumn-sown determinate lupins - Highfield VI.

Sponsors: G.F.J. Milford, H.J. Stevenson.

Design: 4 randomised blocks of 10 plots.

Plot dimensions: 2.88 x 6.0.

Treatments:

LINES	Lines and growth regulator:
A	DTN 01
B	DTN 02
C	DTN 11
D	DTN 12
E	DTN 13
F	DTN 16
G	DTN 19
H	DTN 20
70	CH304/70
70R	CH304/70 with growth regulator in spring

Experimental diary:

29-Jul-94 : B : Deep tine cultivated with vibrating tines 60 cm apart and 45 cm deep. Rolled.
04-Aug-94 : B : Ploughed and furrow pressed. Rolled.
02-Sep-94 : B : Rotary harrowed twice.
 : T : **LINES:** Lines drilled at 40 seeds per m².
06-Sep-94 : B : Opogard 500 SC at 2.8 l in 220 l.
12-Sep-94 : B : Draza at 5.5 kg.
30-Nov-94 : B : Falcon at 1.0 l in 200 l.
15-Dec-94 : B : Farmon PDQ at 15.0 l in 900 l, inter-row sprayed using dribble bar.
06-Feb-95 : B : Hand weeding started.
14-Feb-95 : B : Hand weeding finished.
13-Mar-95 : B : Atlas Simazine at 2.0 l in 200 l.
04-Apr-95 : T : **LINES** 70R: Cultar at 826 ml in 220 l.
19-Apr-95 : B : Atlas Dimethoate 40 at 850 ml in 200 l.
23-May-95 : B : Atlas Dimethoate 40 at 850 ml in 200 l.
20-Jun-95 : B : Corbel at 0.5 l with Tilt Turbo 475 EC at 1.0 l in 200 l.
30-Jun-95 : B : Atlas Dimethoate 40 at 850 ml in 200 l.
17-Aug-95 : B : Combine harvested.

Previous crops: W. wheat 1993, set-aside 1994.

95/R/LP/1

- NOTES:** (1) The yield of one plot was lost during harvesting with treatment: **LINES** A. An estimated value was used in the analysis.
- (2) Plant populations were assessed monthly September to April. Plant heights were measured in February and June. Final main stem leaf numbers, date of first floret opening and maximum floret numbers were recorded. Branch and leaf numbers were counted in July. Components of yield were assessed.

GRAIN TONNES/HECTARE

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

LINES	
A	1.70
B	2.49
C	2.04
D	1.59
E	1.87
F	2.09
G	1.91
H	2.16
70	2.00
70R	1.81
Mean	1.96

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

LINES
0.325

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	26	0.460	23.4
GRAIN MEAN DM%	89.8		
PLOT AREA HARVESTED	0.00072		