

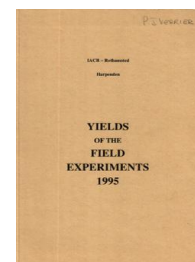
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95/R/LP/2 Lines and Sowing Dates - Lupins

Rothamsted Research

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95/R/LP/2

LUPINS

LINES AND SOWING DATES

Object: To test the effects of sowing date on the plant architecture and yield of two lines of lupins sown in autumn and spring - Highfield VI.

Sponsors: G.F.J. Milford, I. Shield.

Design: 4 randomised blocks of 3 x 2 plots.

Plot dimensions: 2.88 x 6.0.

Treatments: All combinations of:-

1. LINES

70	CH304/70
73	CH304/73

2. SOW DATE

Date of sowing:

E	Early September, 1994
M	Late September
L	Middle of March, 1995

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.

05-Sep-94 : T : SOW DATE E: Rotary harrowed, lines drilled at 40 seeds per m².

06-Sep-94 : T : SOW DATE E: Opogard 500 SC at 2.8 l in 220 l.

12-Sep-94 : B : Draza at 5.5 kg.

22-Sep-94 : T : SOW DATE M: Rotary harrowed, lines drilled at 40 seeds per m².

26-Sep-94 : T : SOW DATE M: Opogard 500 SC at 2.8 l in 200 l.

30-Nov-94 : B : Falcon at 1.0 l in 200 l.

16-Dec-94 : T : SOW DATE E, M: Farmon PDQ at 15.0 l in 900 l, inter-row sprayed using dribble bar.

03-Feb-95 : T : SOW DATE E, M: Hand weeded.

09-Mar-95 : T : SOW DATE L: Sting CT at 4.0 l in 220 l.

13-Mar-95 : T : SOW DATE E, M: Atlas Simazine at 2.0 l in 220 l.

14-Mar-95 : T : SOW DATE L: Heavy spring-tine cultivated, rotary harrowed, lines drilled at 40 seeds per m².

14-Mar-95 : T : SOW DATE L: Opogard 500 SC at 2.8 l in 220 l.

11-Apr-95 : T : SOW DATE E, M: Cultar at 0.75 l 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.

16-Jun-95 : T : SOW DATE L: Fusilade 5 at 2.0 l in 220 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 : T : SOW DATE E, M: Combine harvested.

95/R/LP/2

NOTES: (1) **SOW DATE** L did not produce harvestable grain.
 (2) Plant numbers were assessed in autumn, winter, spring and at harvest. Plant components were assessed at flowering. Components of yield were measured after harvest.

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

GRAIN TONNES/HECTARE

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

SOW DATE	E	M	Mean
LINES			
70	1.73	2.21	1.97
73	2.74	2.99	2.87
Mean	2.23	2.60	2.42

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

LINES	SOW DATE	LINES
		SOW DATE
0.142	0.142	0.201

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.284	11.7

GRAIN MEAN DM% 90.3

PLOT AREA HARVESTED 0.00072