

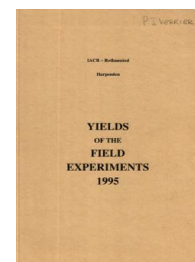
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95/R/LP/13 Spring-sown Winter Lupins - Lupins

Rothamsted Research

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95/R/LP/13

LUPINS

SPRING-SOWN WINTER LUPINS

Object: To assess the growth of two winter cultivars and one spring cultivar, sown in spring at three sowing dates, and the use of a desiccant to accelerate maturity - Sawyers 1 E.

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

Design: 3 randomised blocks of 3 x 2 x 2 + 1 (duplicated) plots.

Whole plot dimensions: 3.0 x 9.0.

Treatments: All combinations of:-

1. **VARIETY**

70	CH304/70
73	CH304/73
MIN	Minori

NOTE: 70 was sown at 240 kg, 73 at 160 kg and MIN at 220 kg, to give 80 seeds per m².

2. **SOW DATE** Dates of sowing:

E	13 March
M	27 March

3. **DESICCANT** Desiccant:

-	None
D	Glyphosate

plus extra treatment

MIN LATE **VARIETY** MIN, sown 10 April (duplicated)

Experimental diary:

13-Jan-95 : B : Roundup at 4.0 l in 200 l.
07-Feb-95 : B : Ploughed.
13-Mar-95 : T : **SOW DATE** E: Rotary harrowed, varieties drilled,
Stomp 400 at 5.0 l in 220 l.
27-Mar-95 : T : **SOW DATE** M: Rotary harrowed, varieties drilled,
30-Mar-95 : T : **SOW DATE** M: Stomp 400 at 5.0 l in 220 l.
10-Apr-95 : T : **DESI LAT** -, D: Rotary harrowed, varieties drilled,
Stomp 400 at 5.0 l in 220 l.
31-May-95 : B : Fusilade 5 at 2 l with Vassgro Spreader at 200 ml in
200 l.
21-Jul-95 : B : Corbel at 1.0 l in 300 l.
09-Aug-95 : T : **SOW DATE** E, **VARIETY** MIN, **DESICCANT** D: Roundup at 2.0 l in
220 l.
22-Aug-95 : T : **SOW DATE** E, **VARIETY** MIN: Hand harvested (one block).

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Experimental diary:

30-Aug-95 : T : SOW DATE M, VARIETY MIN, DESICANT D: Roundup at 2.0 l in 220 l.
 04-Sep-95 : T : SOW DATE E, VARIETY MIN: Hand harvested (two blocks).
 05-Sep-95 : T : SOW DATE E, VARIETY 70, 73, DESICANT D: Roundup at 2.0 l in 220 l.
 21-Sep-95 : T : SOW DATE M, VARIETY MIN, MIN LATE: Hand harvested.
 25-Sep-95 : T : SOW DATE E, VARIETY 70, 73: Combine harvested.
 : T : SOW DATE M, VARIETY 70, 73, DESICANT D: Roundup at 2.0 l in 220 l.
 11-Oct-95 : T : SOW DATE M, VARIETY 70, 73: Combine harvested.

Previous crops: S. wheat 1993, w. wheat 1994.

NOTES: (1) Late sowings of VARIETY 70, 73 were not harvested due to poor growth and are omitted from the tables.
 (2) Plants were counted at establishment and harvest. Leaf production was measured pre-vernalization, leaf and branch numbers were assessed after flowering. Photosynthesis was measured during pod development. Components of yield were measured, oil and protein content of grain were assessed.

GRAIN TONNES/HECTARE

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

SOW DATE	E	M	Mean
VARIETY			
70	1.31	0.77	1.04
73	1.08	0.70	0.89
MIN	1.71	1.17	1.44
Mean	1.37	0.88	1.12
DESICANT	-	D	Mean
VARIETY			
70	1.09	0.98	1.04
73	0.88	0.91	0.89
MIN	1.47	1.41	1.44
Mean	1.15	1.10	1.12
DESICANT	-	D	Mean
SOW DATE			
E	1.34	1.40	1.37
M	0.96	0.80	0.88
Mean	1.15	1.10	1.12

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GRAIN TONNES/HECTARE

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

VARIETY	DESICANT	-	D
	SOW DATE		
70	E	1.39	1.24
	M	0.80	0.73
73	E	1.06	1.11
	M	0.69	0.70
MIN	E	1.57	1.84
	M	1.37	0.97

MIN LATE

0.82

Grand mean 1.08

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

VARIETY	SOW DATE	DESICANT	VARIETY SOW DATE
0.082	0.067	0.067	0.116
VARIETY DESICANT	SOW DATE DESICANT	VARIETY SOW DATE DESICANT	
0.116	0.094	0.164	

SED for comparing **MIN LATE** with any item in **VARIETY, SOW DATE, DESICANT** table is 0.142

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	27	0.200	18.5

GRAIN MEAN DM% 84.8

PLOT AREA HARVESTED 0.00318 **VARIETY MIN**
 PLOT AREA HARVESTED 0.00165 OTHER TREATMENTS