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94/R/LP/2 Sowing Dates and Population - W. Lupins

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94/R/LP/2

WINTER LUPINS

SOWING DATES AND POPULATION

Object: To study the effects of sowing date and plant density on plant structure, yield, components of yield and harvest date - Great Harpenden I.

Sponsors: G.F.J. Milford, I. Shield, J.E. Leach, J.M. Day.

Design: 4 blocks of 4 plots split into 4 sub-plots.

Whole plot dimensions: 14.52 x 6.0.

Treatments:

Whole plots

1. SOW DATE	Date of sowing:
S1	2 September, 1993
S2	22 September
S3	17 October
S4	28 October

Sub-plots

2. POPULATN	Number of seeds sown per m ² :
P1	28
P2	42
P3	56
P4	70

Experimental diary:

- 31-Aug-93 : B : Ploughed and furrow pressed.
01-Sep-93 : B : Rolled, rotary harrowed.
02-Sep-93 : T : SOW DATE S1: Rotary harrowed, CH304/70, dressed iprodione and carbendazim, drilled.
06-Sep-93 : T : SOW DATE S1: Opogard 500 FW at 2.8 l in 220 l.
20-Sep-93 : T : SOW DATE S2: Rotary harrowed.
22-Sep-93 : T : SOW DATE S2: Rotary harrowed, CH304/70, dressed iprodione and carbendazim, drilled. Opogard 500 FW at 2.8 l in 220 l.
15-Oct-93 : T : SOW DATE S3, S4: Spring-tine cultivated.
16-Oct-93 : T : SOW DATE S3: Rotary harrowed.
17-Oct-93 : T : SOW DATE S3: CH304/70, dressed iprodione and carbendazim, drilled.
28-Oct-93 : T : SOW DATE S4: CH304/70, dressed iprodione and carbendazim, drilled.
01-Nov-93 : T : SOW DATE S3, S4: Opogard 500 FW at 2.8 l in 220 l.
23-Dec-93 : B : Sportak 45 at 1.1 l in 220 l.
16-Feb-94 : B : Atlas Simazine at 1.0 l in 200 l.

94/R/LP/2

Experimental diary:

30-Mar-94 : T : **SOW DATE** S4: Heavy spring-tine cultivated.
 20-Apr-94 : T : **SOW DATE** S4: Rotary harrowed, Minori drilled.
 21-Apr-94 : T : **SOW DATE** S1: Laser at 1.25 l in 186 l.
 29-Apr-94 : T : **SOW DATE** S4: Opogard 500 SC at 2.8 l in 220 l.
 08-Jul-94 : B : Atlas Dimethoate 40 at 850 ml in 200 l.
 06-Sep-94 : T : **SOW DATE** S1, S2: Combine harvested.
 19-Oct-94 : T : **SOW DATE** S4: Combine harvested.

Previous crops: W. wheat 1992, w. barley 1993.

NOTES: (1) All seed was inoculated with rhizobium.
 (2) Lupins on the S3 and S4 plots failed. S4 plots were resown with a spring variety.

GRAIN TONNES/HECTARE

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

POPULATN SOW DATE	P1	P2	P3	P4	Mean
S1	1.94	1.92	2.20	2.55	2.15
S2	0.33	0.37	0.56	1.07	0.58
S4	0.10	0.04	0.07	0.20	0.10
Mean	0.79	0.78	0.94	1.27	0.94

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

	SOW DATE	POPULATN	SOW DATE POPULATN
s.e.d.	0.152	0.147	0.267
Except when comparing means with the same level(s) of			
SOW DATE			0.254

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.214	22.7
BLOCK.WP.SP	27	0.360	38.1

GRAIN MEAN DM% 79.1

SUB PLOT AREA HARVESTED 0.00058 (**SOW DATE** S1, S2)
 0.00090 (**SOW DATE** S4)