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

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98/R/LP/2

LUPINS

LINES AND SOWING DATES

Object: To test the effect of sowing date on plant structure, light interception, dry matter accumulation and yield of seven lupin genotypes - Osier.

Sponsors: H.J. Stevenson, I. Shield, J.E. Leach, T. Scott.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 8.0 x 9.0.

Treatments:

LINE	Line	Seed dressing	Seed rate seeds per m ²	Sowing date
12S	DETN 12	undressed	40	15-Sep-97
20S	DETN 20	undressed	40	15-Sep-97
LDS	Ludet	Germipro	40	15-Sep-97
LYS	Lucyane	Germipro	40	15-Sep-97
LDM	Ludet	Germipro	80	10-Mar-98
LWM	Wodjil	undressed	80	10-Mar-98
AMM	Merritt	undressed	80	31-Mar-98
ATM	Tallerack	undressed	80	31-Mar-98

Experimental diary:

12-Aug-97 : B : Ploughed and furrow pressed.
15-Sep-97 : B : Flat rolled.
 : T : **LINE** LYS, LDS, 12S, 20S: Rotary harrowed. Cultivars drilled as treatment. Rolled.
29-Sep-97 : T : **LINE** LDM, AMM, ATM, LWM: Rotary harrowed.
02-Oct-97 : T : **LINE** LDM, AMM, ATM, LWM: Harrowed, rotary harrowed.
03-Oct-97 : T : **LINE** LDM, AMM, ATM, LWM: Rotary harrowed, cultivars Lucyane, Ludet, DETN 12 and DETN 20 drilled as treatment.
27-Oct-97 : B : Stomp 400 SC at 5.0 l in 200 l.
26-Nov-97 : B : Gesatop 500 SC at 2.5 l in 200 l.
18-Feb-98 : B : Folicur at 0.5 l in 200 l.
24-Feb-98 : B : Rovral Flo at 1.0 l in 200 l.
05-Mar-98 : T : **LINE** LDM, LWM: Heavy spring-tine cultivated twice.
10-Mar-98 : T : **LINE** LDM, LWM: Rotary harrowed. Cultivars drilled as treatment.
16-Mar-98 : T : **LINE** LYS, LDS, 12S, 20S: Skirmish at 1.0 l in 220 l.
17-Mar-98 : T : **LINE** LWM, LDM: MSS Simazine 50 FL at 2.0 l in 220 l.
30-Mar-98 : T : **LINE** AMM, ATM: Heavy spring-tine cultivated. Rotary harrowed.
31-Mar-98 : T : **LINE** AMM, ATM: Cultivars drilled as treatment.
01-Apr-98 : T : **LINE** AMM, ATM: MSS Simazine 50 FL at 2.0 l in 220 l.
02-Apr-98 : B : Danadim Dimethoate 40 at 850 ml in 200 l.

98/R/LP/2

Experimental diary:

27-Apr-98 : T : **LINE** LYS, LDS, 12S, 20S: Laser at 1.25 l with Chiltern
Cropoil at 2.5 l in 220 l.
20-May-98 : B : Folicur at 0.5 l in 200 l. Aphox at 280 g in 200 l.
12-Jun-98 : B : Alto 240 EC at 0.33 l with Bravo 500 at 1.5 l in 200 l.
17-Sep-98 : T : **LINE** LYS, LDS, LWM: Combine harvested.
23-Sep-98 : T : **LINE** 12S, 20S: Combine harvested.

NOTES: (1) A sowing on the 02-Oct-97 failed to grow and was resown in spring.
(2) **LINE** LDM, AMM and ATM failed to produce a harvestable crop.
- **LINE** DETN 12 was severely infected by bean yellow mosaic.
- Apical dissections were made October to March (autumn sown) April to May (spring sown). Plant counts were taken on five (autumn) and three (spring) occasions. Dates of flowering and final main stem leaf numbers were noted. Branch and leaf numbers were counted, plant heights were measured. Degree of lodging was assessed and components of yield at harvest were measured.

Previous crops: Industrial rape 1996, w. barley and wheat 1997.

GRAIN TONNES/HECTARE

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

LINE	
12S	2.11
20S	2.72
LDS	3.04
LYS	2.48
LWM	1.65
Mean	2.40

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

LINE
0.357

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.438	18.2
GRAIN MEAN DM%	75.1		
PLOT AREA HARVESTED	.00207		