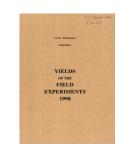
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# Yields of the Field Experiments 1998



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

# **Rothamsted Research**

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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:  $8.0 \times 9.0$ .

#### Treatments:

LINE	Line	Seed dressing	Seed rate seeds per m <sup>2</sup>	Sowing date
125	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:

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12-Aug-97 : B : Ploughed and furrow pressed.
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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 1 in 200 1.

26-Nov-97 : B : Gesatop 500 SC at 2.5 1 in 200 1.

18-Feb-98 : B : Folicur at 0.5 1 in 200 1.

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 1 in 220 1. 17-Mar-98 : T : LINE LWM, LDM: MSS Simazine 50 FL at 2.0 1 in 220 1. 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 1 in 220 1.

02-Apr-98 : B : Danadim Dimethoate 40 at 850 ml in 200 1.

#### 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	
125	2.11
205	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