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## Yields of the Field Experiments 1999

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### 99/R/LP/3 Pod Development and Yield - Lupins

#### Rothamsted Research

Rothamsted Research (2000) *99/R/LP/3 Pod Development and Yield - Lupins* ; Yields Of The Field Experiments 1999, pp 161 - 162 - DOI: <https://doi.org/10.23637/ERADOC-1-34>

99/W/LP/1

**GRAIN TONNES/HECTARE**

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

**DENSITY**

30	1.94
50	1.69
70	1.56
90	1.34

Mean	1.63
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\*\*\* Standard errors of differences of means \*\*\*

**DENSITY**

0.184

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

Stratum	d.f.	s.e.	cv%
WP	8	0.226	13.8

GRAIN MEAN DM% 83.7

PLOT AREA HARVESTED 0.00207

99/R/LP/3

## LUPINS

### POD DEVELOPMENT AND YIELD

**Object:** To define the role of nitrogen in pod abortion, development and seed yield. To determine the relationships between leaves and pods in supplying carbohydrate to the developing seeds - Bones Close.

**Sponsors:** I.F. Shield, J.E. Leach.

**Design:** 2 blocks of 2 x 6 plots systematically arranged for irrigation.

**Sub plot dimensions:** 8.0 x 9.0 and 4.0 x 9.0 (HR + AR).

**Treatments:**

Whole plots:

- |                    |             |
|--------------------|-------------|
| 1. <b>IRRIGATN</b> | Irrigation: |
| O                  | None        |
| I                  | Irrigated   |

Sub-plots:

- |                    |  |
|--------------------|--|
| 2. <b>N STRUCT</b> | Nitrogen or fungicide:                               |
| -                  | None   |
| SN                 | Spring nitrogen                                      |
| FN                 | Foliar nitrogen                                      |
| E                  | Epoxiconazole with fenpropimorph and kresoxim-methyl |

**NOTE:** Two treatments HR + AR were abandoned, no yields.

HR Half leaves removed

AR All leaves removed.

**Experimental diary:**

29-Aug-98	: B :	: Ploughed and furrow pressed, started.
30-Aug-98	: B :	: Ploughed and furrow pressed, completed.
07-Sep-98	: B :	: Flat rolled.
	: B :	: Combination drilled, DTN 20, untreated, at 50 seeds/m <sup>2</sup> with the Accord drill.
	: B :	: Rolled.
	: B :	: Spannit at 1.5 l in 200 l.
11-Sep-98	: B :	: Hardy at 7.5 kg.
16-Oct-98	: B :	: tm)Stomp 400 SC at 5.0 l in 200 l.
	: B :	: tm)Decis at 300 ml in 200 l.
29-Jan-99	: B :	: Carbetamex at 3.0 kg in 200 l.
16-Mar-99	: B :	: Alpha Simazine 50 SC at 2.3 l in 200 l.
17-Mar-99	: B :	: tm)Folicur at 0.5 l in 200 l.
	: B :	: tm)Rovral Flo at 1.0 l in 200 l.
08-Apr-99	: T : SN	: 46% N at 240 kg.
15-Apr-99	: B :	: Lo-Gran 20 WG at 18.75 g in 200 l.
16-Apr-99	: T :	: tm)Corbel at 0.2 l in 220 l, all except E plots.
	: T :	: tm)Opus at 1.0 l in 220 l, all except E plots.
	: T : E	: Mantra at 1.0 l in 220 l.
27-Apr-99	: T : SN	: 46% N at 240 kg.
14-May-99	: T : SN	: 46% N at 240 kg.