

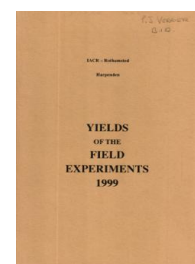
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99/R/LP/3 Pod Development and Yield - Lupins

Rothamsted Research

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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. **IRRIGATN** Irrigation:

O	None
I	Irrigated

Sub-plots:

2. **N STRUCT** 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 ² 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.