

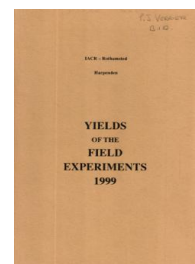
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99/R/LP/3 Pod Development and Yield - Lupins

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 |
|------|------|

*** 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. |