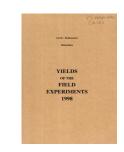
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Yields of the Field Experiments 1998



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

Rothamsted Research

Rothamsted Research (1999) 98/R/LP/3 Pod Development and Yield - Lupins; Yields Of The Field Experiments 1998, pp 172 - 173 - DOI: https://doi.org/10.23637/ERADOC-1-52

98/R/LP/3

LUPINS

POD DEVELOPMENT AND YIELD

Object: To monitor the role of nitrogen in pod abortion, development and yield. To determine the relationship between leaves and pods in supplying carbohydrate to the seed - Fosters West.

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

Design: 2 randomised blocks of 2 plots split into 5.

Whole plot dimensions: 6.0×9.0 .

Treatments:

Whole plots

1. IRRIGATN	Irrigation:	
0	None Irrigated	
Sub-plots		

- Nitrogen or leaf removal: 2. T
 - None

Spring nitrogen SN Foliar nitrogen FN Half leaves removed HR All leaves removed AR

Experimental diary:

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27-Aug-97 : B : Ploughed and furrow pressed.
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12-Sep-97 : B : Rolled, rotary harrowed, DTN 20, undressed, drilled at

60 seeds per m2. Rolled. 15-Sep-97 : B : Stomp 400 SC at 5.0 1 in 200 1.

18-Sep-97 : B : Spannit at 1.1 1 in 200 1.

05-Dec-97 : B : Gesatop 500 SC at 2.3 1 in 200 1.

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

24-Feb-98 : B : Rovral Flo at 1.0 l in 200 l.

16-Mar-98 : B : Skirmish at 1.0 1 in 200 1.

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

08-Apr-98 : T : T SN: 46% N at 217 kg.

30-Apr-98 : T : T SN: 46% N at 217 kg.

09-May-98 : B : Laser at 1.25 l with Chiltern Cropoil at 1.0 l in 200 l.

20-May-98 : B : Folicur at 0.5 1 in 200 1. Aphox at 280 g in 200 1.

04-Jun-98 : T : IRRIGATN I: Irrigated 12 mm. 05-Jun-98 : T : IRRIGATN I: Irrigated 12 mm.

12-Jun-98 : B : Alto 240 EC at 0.33 1 with Bravo 500 at 1.5 1 in 200 1.

03-Jul-98 : T : T FN: 46% N at 32.6 kg in 220 1. 15-Jul-98 : T : T FN: 46% N at 32.6 kg in 220 1.

98/R/LP/3

Experimental diary:

22-Jul-98 : T : T HR, AR: Leaf removal started.

23-Jul-98 : T : IRRIGATN: Irrigated 25 mm.

24-Jul-98 : T : T FN: 46% N at 32.6 kg in 220 1.

31-Jul-98 : T : T FN: 46% N at 32.6 kg in 220 1.

07-Aug-98 : T : T HR, AR: Leaf removal finished.

12-Aug-98 : T : IRRIGATN: Irrigated 20 mm. 25-Sep-98 : B : Combine harvested.

Previous crops: W. rape 1996, w. wheat 1997.

NOTE: Plants were sampled regularly for biomass production and nitrogen content. Leaf and pod photosynthesis was measured regularly and light interception weekly. Flowering date was also noted.

GRAIN TONNES/HECTARE

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

T	-	SN	FN	Mean
IRRIGATN				
0	3.50	3.05	3.12	3.34
I	3.04	2.77	2.90	2.96
Mean	3.27	2.91	3.01	3.15

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

T IRRIGATN*

T 0.305 min.rep

0.216 0.305 min.rep 0.176 0.249 max-min

* within the same level of IRRIGATN only

min.rep Any of the remainder max-min - v any of the remainder

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

Stratum d.f. s.e. cv%

BLOCK.WP.SP 12 0.305 9.7

GRAIN MEAN DM% 69.9

SUB-PLOT AREA HARVESTED 0.00223