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Yields of the Field Experiments 1997



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

Rothamsted Research

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97/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 - Stackyard.

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

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 6.0×9.0 .

Treatments:

Treatments:					
T				1	Nitrogen or leaf removal:
-				1	lone
SN				5	Spring nitrogen
FN				E	Poliar nitrogen
HL				F	Half leaves removed
AL				2	All leaves removed
EXI	perimental			-	
					Ploughed and furrow pressed.
	26-Jul-96				
	Children Control - Control				Spring-tine cultivated.
					Rotary harrowed.
	16-Sep-96	:	В	:	Rotary harrowed, DETN 20, undressed, drilled at 40 seeds
					per m ² .
					Stomp 400 SC at 5.0 1 in 294 1. Spannit at 1.5 1 in 294 1.
					Irrigated 25 mm.
	08-Nov-96	:	B	:	Carbetamex at 3.0 kg with MSS Simazine 50 FL at 2.3 1 in
					200 1. Decis at 300 ml in 200 1.
	12-Dec-96	:	В	:	Rovral Flo at 1.0 1 in 200 1. Standon Tebuconazole at
					0.5 1 in 200 1.
					T SN: 46% N at 217 kg.
					T SN: 46% N at 217 kg.
					Compass at 3.0 1 in 200 1.
					T SN: 46% N at 217 kg.
					Mistral at 1.0 l in 300 l.
					T FN: 46% N at 32.6 kg.
					T FN: 46% N at 32.6 kg.
					T HL, AL: Leaf removal started.
					T FN: 46% N at 32.6 kg.
					Danadim Dimethoate 40 at 850 ml in 300 l.
					T FN: 46% N at 32.6 kg.
					T HL, AL: Leaf removal finished.
					Harvest at 3.0 1 in 400 1.
	23-Sep-97	:	В	:	Combine harvested.

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Previous crops: W. wheat 1995, set-aside 1996.

97/R/LP/3

- NOTES: (1) Dry matter was assessed regularly and light interception measured April to August. Leaf pod photosynthesis was measured frequently. Components of yield were measured at harvest and plant nitrogen content.
 - (2) 46% N was applied to one half plot of T -, in error, this has been omitted from the analysis.
 - (3) Because of poor emergence the yields of one block was lost and omitted from the analysis.

GRAIN TONNES/HECTARE

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

T 1.75 1.90 SN FN 1.56 HL 1.41 AL 0.91 Mean 1.51

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

0.208

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

Stratum d.f. CV% s.e. BLOCK.WP 8 0.294 19.5

GRAIN MEAN DM% 86.5

PLOT AREA HARVESTED 0.00216