

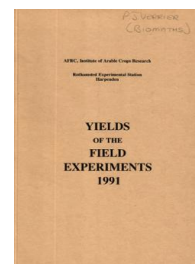
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91/R/LP/1 Seed Rates and Growth Regulators - W. Lupins

Rothamsted Research

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91/R/LP/1

WINTER LUPINS

SEED RATES AND GROWTH REGULATOR

Object: To compare the effects of different times of applying triapenthanol to three different seed rates on the growth and yield of w. lupins - Long Hoos V 2.

Sponsor: D.P. Yeoman.

Design: 3 randomised blocks of 14 plots.

Whole plot dimensions: 1.8 x 8.0.

Treatments: All combinations of:-

1. **G R TIME** Times of applying triapenthanol at 0.64 kg in 220 l:

NEVER	Never
PRE FLR	Pre-flowering, on 21 May, 1991
TERM POD	First pods on terminal inflorescence, on 20 June
SEC POD	First pods on secondary inflorescence, on 17 July

2. **SEEDRATE** Seed rates (kg):

100
200
300

plus two extra treatments: sown at 200 kg, triapenthanol applied at 0.32 kg in 220 l on each of two occasions:

EXTRA

MAY+JUNE	21 May and 20 June
MAY+JULY	21 May and 17 July

Basal applications: Weedkillers: Terbutylazine at 0.42 kg and terbutryn at 0.98 kg in 200 l. Fungicide: Prochloraz at 0.45 kg applied with the insecticide in 200 l. Insecticide: Pirimicarb at 0.14 kg. Desiccant: Diquat at 0.60 kg ion applied with a wetting agent, 'Vassgro', in 400 l. Previous crops: Fallow 1989, s. barley 1990.

Seed: Lugel (C8) inoculated with Rhizobium, sown at 60 seeds per square metre.

Cultivations, etc.:- Ploughed and rolled: 11 Sept, 1990. Cultivated with rotary grubber, rotary harrowed, seed sown, harrowed: 26 Sept. Weedkillers applied, rolled: 27 Sept. Fungicide and insecticide applied: 22 July, 1991. Desiccant applied: 12 Sept. Combine harvested: 22 Oct.

NOTE: The crop was netted against birds and mammals from after sowing until spring.

91/R/LP/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SEEDRATE	100	200	300	Mean
G R TIME				
NEVER	0.55	0.74	0.87	0.72
PRE FLR	0.55	0.56	0.79	0.63
TERM POD	0.58	0.80	0.95	0.78
SEC POD	0.52	0.55	0.96	0.68
Mean	0.55	0.66	0.89	0.70
EXTRA	MAY+JUNE	MAY+JULY	Mean	
	0.66	0.71	0.69	

GRAND MEAN 0.70

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

G R TIME	SEEDRATE	G R TIME SEEDRATE & EXTRA
0.095	0.082	0.164

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

Stratum	d.f.	s.e.	cv%
BLOCK	26	0.201	28.7

GRAIN MEAN DM% 69.4

PLOT AREA HARVESTED 0.00144