

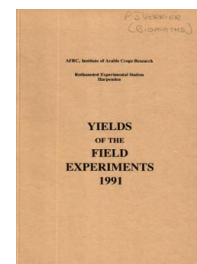
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# Yields of the Field Experiments 1991

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

### Rothamsted Research

Rothamsted Research (1992) *91/R/LP/1 Seed Rates and Growth Regulators - W. Lupins* ; Yields Of The Field Experiments 1991, pp 153 - 154 - DOI: <https://doi.org/10.23637/ERADOC-1-46>

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 \*\*\*\*\*

<b>SEEDRATE</b>	100	200	300	Mean
<b>G R TIME</b>				
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
<b>EXTRA</b>	MAY+JUNE	MAY+JULY	Mean	
	0.66	0.71	0.69	

GRAND MEAN 0.70

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

<b>G R TIME</b>	<b>SEEDRATE</b>	<b>G R TIME SEEDRATE &amp; EXTRA</b>
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