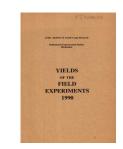
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Yields of the Field Experiments 1990



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Rothamsted Research

Rothamsted Research (1991) 90/R/LP/3 Vernalization Study - S. Lupins; Yields Of The Field Experiments 1990, pp 141 - 142 - DOI: https://doi.org/10.23637/ERADOC-1-42

90/R/LP/3

SPRING LUPINS

VERNALIZATION STUDY

Object: To study the effects of vernalizing imbibed seed of the lupin varieties C 8 and Vladimir on flowering date, maturity and yield when sown in spring - Long Hoos VI/VII 4.

Sponsors: J.E. Leach, D.P. Yeoman, G.F.J. Milford.

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 3.6 x 4.6.

Treatments: All combinations of:-

1. VARIETY Varieties:

C 8 VLADIMIR

2. SEED TRT Seed treatment:

NONE None

VERNALIZ Imbibed seed vernalized at 1 C for six weeks before

sowing

NOTE: Plots were netted against birds and mammals from late April to late August.

Basal applications: Manure: Muriate of potash at 520 kg. Weedkillers: Terbuthylazine at 0.42 kg and terbutryn at 0.98 kg in 220 l. Molluscicide: Methicarb at 0.18 kg. Insecticides: Dimethoate at 0.34 kg in 380 l. Deltamethrin at 7.5 g in 220 l. Irrigation: 25 mm on the first and last occasion, 12 mm on the second, third, fourth and fifth occasions and 19 mm on the sixth occasion, (total 120 mm).

Seed: Sown at 25 seeds per square metre.

Cultivations, etc.:- K applied: 21 Aug, 1989. Ploughed: 29 Aug. Rotary cultivated: 16 Mar, 1990 and 19 Mar. Seed sown: 20 Mar. Rolled: 23 Mar. Weedkillers and molluscicide applied: 26 Mar. Irrigation applied: 4, 10, 18, 24 May, 27 June, 16 and 26 July. Dimethoate applied: 17 May. Deltamethrin applied: 14 June. Hand harvested, Vladimir: 28 Aug, C 8: 24 Oct. Previous crops: Potatoes 1988, s. barley 1989.

- NOTES: (1) Plants were counted after emergence and at harvest. Leaf numbers were assessed fortnightly from May to June.

 Assessments were made of flower composition, pod bearing branches, pod and seed numbers.
 - (2) VLADIMIR plots produced very low yields and standard errors are not presented.

90/R/LP/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SEED TRT VARIETY C 8	NONE	VERNALIZ	Mean
	0.99	1.30	1.15
VLADIMIR	0.16	0.04	0.10
Mean	0.58	0.67	0 62

GRAIN MEAN DM% *

PLOT AREA HARVESTED (MEAN) 0.00117