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90/R/LP/3 Vernalization Study - S. Lupins

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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: Terbutylazine at 0.42 kg and terbutryn at 0.98 kg in 220 l. Molluscicide: Methiocarb 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	NONE	VERNALIZ	Mean
C 8	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