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## Yields of the Field Experiments 1990

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### 90/R/LP/2 Vernalization Study - W. Lupins

#### Rothamsted Research

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90/R/LP/2

WINTER LUPINS

VERNALIZATION STUDY

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

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

**Design:** 4 randomised blocks of 2 plots.

**Whole plot dimensions:** 3.6 x 4.6.

**Treatments:**

<b>SEED TRT</b>	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 Oct 1989 to Aug 1990.

**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 0.22 kg. Insecticides: Dimethoate at 0.34 kg in 380 l. Deltamethrin at 7.5 g in 220 l. Irrigation: 12 mm on each of five occasions and 25 mm on the second occasion.

**Seed:** C 8, sown at 25 seeds per square metre.

**Cultivations, etc.:** - K applied: 21 Aug, 1989. Ploughed: 29 Aug. Rotary cultivated: 13 Sept. Rolled, rotary cultivated: 4 Oct. Seed sown: 5 Oct. Weedkillers and molluscicide applied: 6 Oct. Irrigation applied: 6 Oct, 4, 10, 18, 24 and 31 May, 1990. Hand weeded: 17 Apr, 2 May and 15 June. Dimethoate applied: 17 May. Deltamethrin applied: 14 June. Hand harvested: 2 Oct. Previous crops: Potatoes 1988, s. barley 1989.

**NOTE:** Plants were counted after emergence and at harvest. Leaf numbers were assessed fortnightly from December to April. Assessments were made of flower composition, pod-bearing branches and pod numbers.

**GRAIN (AT 90% DRY MATTER) TONNES/HECTARE**

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

SEED TRT	NONE	VERNALIZ	Mean
	1.70	1.69	1.69

GRAIN MEAN DM% \*

PLOT AREA HARVESTED (MEAN) 0.00068