

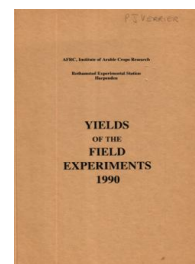
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1990

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1991) *90/R/LP/2 Vernalization Study - W. Lupins* ; Yields Of The Field Experiments 1990, pp 140 - 140 - DOI: <https://doi.org/10.23637/ERADOC-1-42>

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:

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 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