

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 1977

[Full Table of Content](#)



77/R/LP/1 and 77/W/LP/1 Control of Pathogens - Lupins

Rothamsted Research

Rothamsted Research (1978) *77/R/LP/1 and 77/W/LP/1 Control of Pathogens - Lupins* ; Yields Of The Field Experiments 1977, pp 387 - 388 - DOI: <https://doi.org/10.23637/ERADOC-1-29>

77/R/LP/1 and 77/W/LP/1

LUPINS

CONTROL OF PATHOGENS

Object: To study the effects of a range of pesticides on yield and incidence of pathogens of grain lupins - Rothamsted (R) Long Hoos V5, Woburn (W) Far Field I.

Sponsors: J.C. Wilson, A.J. Cockbain.

Design: 3 blocks each of four replicates of 2 x 2.

Whole plot dimensions: 2.29 x 6.10.

Treatments: All combinations of:-

1. ALDICARB Aldicarb to seedbed (kg):

0
10

2. FENITROT Fenitrothion foliar spray (kg):

0.00
0.75

NOTES: (1) Fenitrothion was applied in 340 l on 1 June to Long Hoos V5 (R), and on 2 June to Far Field I (W).

(2) Additional treatments to test pirimicarb and benomyl foliar sprays were planned but not applied because target pathogens were not present.

Basal applications: Manures: (0:14:28) at 500 kg to Long Hoos V5 (R). (0:14:28) at 340 kg to Far Field I (W). Weedkiller: Trifluralin at 1.1 kg in 340 l.

Seed: Kievsky, sown at 220 kg Long Hoos V5 (R), and at 250 kg Far Field I (W). Seed inoculated with *Rhizobium lupini*.

Cultivations, etc.:-

Long Hoos V5 (R): Ploughed: 3 Mar, 1977. PK applied: 10 Mar. Power harrowed: 5 Apr. Weedkiller applied, power harrowed: 6 Apr. Treatment aldicarb applied, power harrowed: 7 Apr. Seed sown: 8 Apr. Combine harvested: 28 Oct. Previous crops: Fallow 1975, potatoes 1976.

Far Field I (W): Heavy spring-tine cultivated: 19 Aug, 1976. Ploughed twice: 6 Sept, 15 Feb, 1977. Spring-tine cultivated: 30 Mar. Weedkiller applied, spring-tine cultivated: 31 Mar. Treatment aldicarb applied, PK applied, power harrowed and seed sown: 4 Apr. Combine harvested: 26 Oct. Previous crops: Potatoes 1975, wheat 1976.

NOTE: Diseases and pests were assessed during the season.

77/R/LP/1 LONG HOOS V 5(R)

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

FENITROT ALDICARB	0.00	0.75	MEAN
0	2.25	2.21	2.23
10	2.22	2.23	2.23
MEAN	2.23	2.22	2.23

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	ALDICARB	FENITROT	ALDICARB FENITROT
SED	0.044	0.044	0.062

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	42	0.151	6.8
GRAIN MEAN DM%	60.6		
PLOT AREA HARVESTED	0.00139		

77/W/LP/1 FAR FIELD (W)

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

FENITROT ALDICARB	0.00	0.75	MEAN
0	2.18	2.28	2.23
10	2.26	2.21	2.23
MEAN	2.22	2.24	2.23

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	ALDICARB	FENITROT	ALDICARB FENITROT
SED	0.049	0.049	0.069

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	42	0.169	7.6
GRAIN MEAN DM%	66.6		
PLOT AREA HARVESTED	0.00139		