

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 1976

[Full Table of Content](#)

76/R/LP/2 and 76/W/LP/2 Control of Pathogens - Lupins

Rothamsted Research

Rothamsted Research (1977) *76/R/LP/2 and 76/W/LP/2 Control of Pathogens - Lupins ; Yields Of The Field Experiments 1976*, pp 343 - 345 - DOI: <https://doi.org/10.23637/ERADOC-1-15>

76/R/LP/2 and 76/W/LP/2

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 V6, Woburn (W) Far Field II.

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

Design: 3 blocks of 2 x 2 x 2 (duplicated in each block).

Whole plot dimensions: 2.41 x 6.10.

Treatments: All combinations of:-

1. ALDICARB Aldicarb to seedbed (kg):

0	None
10	10

2. FENITROT Fenitrothion foliar spray (kg):

0.00	None
0.75	0.75

3. PIRIMICA Pirimicarb foliar spray (kg):

0.00	None
0.14	0.14

NOTES: (1) An intended test of benomyl foliar spray was not applied.
(2) Sprays applied in 340 l.

Basal applications: Manures: (0:14:28) at 810 kg to (R) Long Hoos V6, 530 kg to (W) Far Field II. Chalk at 2.8 t to (R) Long Hoos V6 only.
Weedkiller: Trifluralin at 0.9 kg in 340 l. Irrigation: 50 mm to (R) Long Hoos V6 only.

Seed: Kievsky, sown at 220 kg.

Cultivations, etc.:-

(R) Long Hoos V6: Rotary cultivated: 10 Sept, 1975. Fertiliser applied: 8 Dec. Chalk applied: 11 Dec. Ploughed: 19 Dec. Spring-tine cultivated: 24 Mar, 1976. Weedkiller applied: 30 Mar. Aldicarb applied, spring-tine cultivated and seed sown: 31 Mar. Fenitrothion applied: 27 May. Pirimicarb applied: 15 June. 25 mm irrigation applied: 22 June. 25 mm irrigation applied: 6 July. Harvested by hand: 6 Sept. Previous crops: Fallow 1974 and 1975.

(W) Far Field II: Deep-tine cultivated: 19 Sept, 1975, 20 Sept, 24 Oct. Spring-tine cultivated: 27 Feb, 1976. Fertiliser applied, weedkiller applied, spring-tine cultivated twice, seed sown: 1 Apr, 1976. Fenitrothion applied: 28 May. Pirimicarb applied: 16 June. Harvested by hand: 17 Aug. Previous crops: Barley 1974 and 1975.

NOTE: Plant emergence, weevil damage, aphid infestation, diseases and pod numbers were assessed at both sites.

76/R/LP/2 LONG HOOS V 6 (R)

GRAIN TONNES/HECTARE

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

FENITROT	0.00	0.75	MEAN	
ALDICARB				
0	0.90	0.88	0.89	
10	0.92	1.05	0.98	
MEAN	0.91	0.96	0.94	
PIRIMICA	0.00	0.14	MEAN	
ALDICARB				
0	0.92	0.86	0.89	
10	1.01	0.96	0.98	
MEAN	0.96	0.91	0.94	
PIRIMICA	0.00	0.14	MEAN	
FENITROT				
0.00	0.93	0.88	0.91	
0.75	0.99	0.94	0.96	
MEAN	0.96	0.91	0.94	
FENITROT	0.00	0.75		
PIRIMICA	0.00	0.14	0.00	0.14
ALDICARB				
0	0.96	0.85	0.89	0.87
10	0.92	0.91	1.09	1.01

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

TABLE	ALDICARB	FENITROT	PIRIMICA	ALDICARB FENITROT
SED	0.048	0.048	0.048	0.067
TABLE	ALDICARB PIRIMICA	FENITROT PIRIMICA	ALDICARB FENITROT PIRIMICA	
SED	0.067	0.067	0.095	

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

STRATUM	DF	SE	CV%
BLOCK.WP	38	0.165	17.6
GRAIN MEAN DM%	87.4		
PLOT AREA HARVESTED	0.00108		

76/W/LP/2 FAR FIELD II (W)

GRAIN TONNES/HECTARE

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

FENITROT	0.00	0.75	MEAN	
ALDICARB				
0	1.70	1.70	1.70	
10	2.02	1.96	1.99	
MEAN	1.86	1.83	1.85	
PIRIMICA	0.00	0.14	MEAN	
ALDICARB				
0	1.63	1.77	1.70	
10	1.98	2.01	1.99	
MEAN	1.80	1.89	1.85	
PIRIMICA	0.00	0.14	MEAN	
FENITROT				
0.00	1.83	1.90	1.86	
0.75	1.77	1.88	1.83	
MEAN	1.80	1.89	1.85	
FENITROT	0.00	0.75		
PIRIMICA	0.00	0.14	0.00	0.14
ALDICARB				
0	1.60	1.80	1.65	1.74
10	2.05	1.99	1.90	2.03

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

TABLE	ALDICARB	FENITROT	PIRIMICA	ALDICARB FENITROT
SED	0.059	0.059	0.059	0.083
TABLE	ALDICARB PIRIMICA	FENITROT PIRIMICA	ALDICARB FENITROT PIRIMICA	
SED	0.083	0.083	0.117	

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

STRATUM	DF	SE	CV%
BLOCK.WP	38	0.203	11.0

GRAIN MEAN DM% 90.2

PLOT AREA HARVESTED 0.00108