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# Yields of the Field Experiments 1976

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

### Rothamsted Research

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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	0.95	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 11 (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