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

Rothamsted Research

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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	0.00	0.75	MEAN
ALDICARB			
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	0.00	0.75	MEAN
ALDICARB			
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