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90/R/LN/1 Pests and Diseases - Linseed

Rothamsted Research

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90/R/LN/1

LINSEED

PESTS & DISEASES

Object: To study the effects of insecticidal and fungicidal treatments on the pests, pathogens and yields of linseed - Hoosfield.

Sponsors: A.W. Ferguson, B.D.L. Fitt.

Design: 6 randomised blocks of 4 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments: All combinations of:-

1. **INSECTICIDE** Insecticides:

NONE	None
HC DE TR	Gamma HCH at 0.28 kg in 300 l on 11 Apr, 1990 and 25 Apr Deltamethrin at 7.5 g in 300 l on 11 Apr, 25 Apr, 9 May, 22 May, 11 July and 26 July Triazophos at 0.42 kg in 300 l on 5 June

2. **FUNGICIDE** Fungicides:

NONE	None
IP+PR+CM	Iprodione at 0.50 kg in 300 l on 14 June, 1990 Prochloraz at 0.50 kg in 300 l on 26 June Carbendazim at 0.25 kg and maneb at 1.6 kg in 300 l on 3 July Prochloraz (as seed dressing) at 0.40 g/kg seed

Basal applications: Manure: 'Nitram' at 250 kg. Weedkillers:

Clopyralid at 0.10 kg with bentazone at 0.72 kg in 200 l.

Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Enhance' at 0.20 l) in 320 l.

Seed: Antares, sown at 90 kg.

Cultivations, etc.:- Ploughed: 4 Dec, 1989. N applied, spring-tine cultivated, rotary harrowed twice, seed sown: 22 Mar, 1990.

Weedkillers applied: 14 May. Desiccant with wetting agent applied: 9 Aug. Combine harvested: 23 Aug. Previous crops: S. wheat 1988, linseed 1989.

NOTE: Insects and diseases were assessed regularly during the season.

90/R/LN/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

FUNGCIDE	NONE	IP+PR+CM	Mean
INSCTCDE			
NONE	1.86	1.98	1.92
HC DE TR	1.85	2.07	1.96
Mean	1.86	2.03	1.94

*** Standard errors of differences of means ***

INSCTCDE	FUNGCIDE	INSCTCDE FUNGCIDE
0.037	0.037	0.052

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK	5	0.107	5.5
BLOCK.WP	15	0.091	4.7

GRAIN MEAN DM% 93.0

PLOT AREA HARVESTED 0.00276