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88/R/LN/2 Insect Study - Linseed

Rothamsted Research

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88/R/LN/2

LINSEED

INSECT STUDY

Object: To study the effects of insecticidal and fungicidal sprays on the pests, pathogens and yields of linseed - Ex-allotments.

Sponsors: A.W. Ferguson, I.H. Williams, B.D.L. Fitt.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 4.0 x 10.0.

Treatments: All combinations of:-

- | | |
|----------------|--|
| 1. INSECTICIDE | Insecticide: |
| NONE | None |
| DELTA | Deltamethrin at 0.0075 kg in 260 l on 6 May, 1988 and in 200 l on 20 May, 6 June, 20 June, 19 July, 5 Aug and 18 Aug |
| 2. FUNGICIDE | Fungicide |
| NONE | None |
| BE+IPR | Benomyl at 0.55 kg in 200 l and, separately, iprodione at 0.50 kg in 200 l on 6 June, 1988 19 July and 18 Aug |

Basal applications: Manures: 'Nitram' at 250 kg. Weedkiller: Trifluralin at 1.1 kg in 450 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Agral' at 0.50 l) in 200 l.

Seed: Antares, dressed iprodione and benomyl, sown at 87 kg.

Cultivations, etc.:- Ploughed: 27 Nov, 1987. Heavy spring-tine cultivated: 6 Apr, 1988. N applied: 7 Apr. Weedkiller applied, spring-tine cultivated: 12 Apr. Rotary harrowed, seed sown: 13 Apr. Desiccant with wetting agent applied: 19 Sept. Combine harvested: 28 Oct. Previous crops: S. barley 1986, linseed 1987.

NOTE: Insects were sampled and insect damage assessed, fortnightly, from emergence to maturity.

88/R/LN/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCIDE INSCCDE	NONE	BE+IPR	Mean
NONE	2.00	2.55	2.28
DELTA	1.88	3.11	2.49
Mean	1.94	2.83	2.39

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

INSCCDE	FUNGCIDE	INSCCDE FUNGCIDE
0.238	0.238	0.337

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.412	17.3

GRAIN MEAN DM% 85.5

PLOT AREA HARVESTED 0.00310