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## Yields of the Field Experiments 1988

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### 88/R/LN/2 Insect Study - Linseed

#### Rothamsted Research

Rothamsted Research (1989) *88/R/LN/2 Insect Study - Linseed* ; Yields Of The Field Experiments 1988, pp 248 - 249 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

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	NONE	BE+IPR	Mean
INSCTCDE			
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 \*\*\*

INSCTCDE	FUNGCIDE	INSCTCDE 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