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## Yields of the Field Experiments 1989

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### 89/R/LP/2 Pests and Diseases - Linseed

#### Rothamsted Research

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89/R/LN/2

LINSEED

PESTS & DISEASES

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

**Sponsors:** A.W. Ferguson, B.D.L. Fitt, R.A. Gutteridge.

**Design:** 6 randomised blocks of 4 plots.

**Whole plot dimensions:** 3.0 x 11.0.

**Treatments:** All combinations of:-

1. **INSECTICIDE**            Insecticide:
  - NONE                        None
  - DELTA                      Deltamethrin at 7.5 g in 200 l on 19 May, 1989  
                                 and in 260 l on 5 June and in 200 l on 19 June and  
                                 24 July
2. **FUNGICIDE**            Fungicides:
  - NONE                        None
  - IPR+PR                    Iprodione at 0.50 kg in 200 l on 19 June, 1989.  
                                 Prochloraz at 0.50 kg in 200 l on 4 July.  
                                 Prochloraz (as seed dressing) at 0.40 g/kg seed

**Basal applications:** Manures: 'Nitram' at 250 kg. Weedkillers: Glyphosate at 1.4 kg in 200 l. Bentazone at 0.96 kg with clopyralid at 0.038 kg and bromoxynil at 0.18 kg in 260 l. MCPA at 0.48 kg in 200 l. Desiccant: Glyphosate at 1.4 kg in 200 l.

**Seed:** Antares, sown at 90 kg.

**Cultivations, etc.:-** Ploughed: 7 Dec, 1988. Glyphosate weedkiller applied: 27 Mar, 1989. N applied: 30 Mar. Spring-tine cultivated: 18 Apr. Rotary harrowed twice, seed sown: 21 Apr. Bentazone with clopyralid and bromoxynil applied: 1 June. MCPA applied: 9 June. Desiccant applied: 18 Aug. Combine harvested: 4 Sept. Previous crops: Linseed 1987 and 1988.

**NOTE:** Insects were sampled and insect damage assessed, fortnightly, from emergence to maturity. Fungal disease incidence was assessed at emergence, at intervals throughout the season, and on the seed after harvest.

89/R/LN/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCIDE	NONE	IPR+PR	Mean
INSCTCDE			
NONE	1.31	1.43	1.37
DELTA	1.32	1.42	1.37
Mean	1.32	1.43	1.37

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

INSCTCDE	FUNGCIDE	INSCTCDE FUNGCIDE
0.090	0.090	0.128

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.222	16.2
GRAIN MEAN DM%	93.2		
PLOT AREA HARVESTED	0.00207		