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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 INSCDCDE	NONE	IPR+PR	Mean
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 ***

INSCDCDE	FUNGCIDE	INSCDCDE 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