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

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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		