

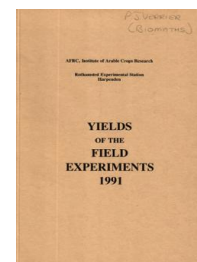
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91/R/LN/2 Fungicides and Disease Resistance - Linseed

Rothamsted Research

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91/R/LN/2

LINSEED

FUNGICIDES AND DISEASE RESISTANCE

Object: To study the effects of different fungicides on the pathogens and yield of linseed - Long Hoos IV 4.

Sponsors: I. Vloutoglou, B.D.L. Fitt.

Design: 5 randomised blocks of 4 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

FUNGCIDE	Fungicides:
NONE	None
BENOMYL	Benomyl at 0.14 kg
IPRODION	Iprodione at 0.25 kg
PROCHLOR	Prochloraz at 0.16 kg

NOTE: Fungicides were applied in 220 l on 20 June, 1991, 10 and 23 July, 7 and 27 Aug.

Basal applications: Manure: 'Nitram' at 220 kg. Weedkillers: Bentazone at 0.96 kg with bromoxynil at 0.24 kg and clopyralid at 0.05 kg in 200 l. Desiccant: Diquat at 0.60 kg ion with wetting a agent, 'Vassgro' at 0.4 l, in 400 l.

Seed: Antares undressed, sown at 600 seeds per square metre.

Cultivations, etc.:- Ploughed: 4 Sept, 1990. N applied: 9 Apr, 1991. Rotary harrowed, seed sown, rolled: 10 Apr. Weedkillers applied: 6 June. Desiccant with wetting agent applied: 2 Sept. Combine harvested: 11 Oct. Previous crops: S. barley 1989, w. wheat 1990.

NOTE: Foliar diseases were assessed throughout the growing season.

91/R/LN/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGICIDE	
NONE	2.24
BENOMYL	2.59
IPRODION	2.50
PROCHLOR	2.67
Mean	2.50

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

FUNGICIDE
0.082

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.129	5.2
GRAIN MEAN DM%	87.1		
PLOT AREA HARVESTED	0.00230		