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91/R/LN/4 Rates and Times of Fungicides - Linseed

Rothamsted Research

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91/R/LN/4

LINSEED

RATES AND TIMES OF FUNGICIDE

Object: To study the effects of fungicide rates and timing on the control of pathogens and on the yield of linseed - White Horse II.

Sponsor: B.D.L. Fitt.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments:

FUNG R T	Fungicides, rates and times of application:
NONE	None
PROC 4 E	Prochloraz at 400 g, applied early on 20 June, 1991
PROC 5 E	" " 500 g, " " " 20 June
PROC 4 L	" " 400 g, " later " 17 July
PROC 5 L	" " 500 g, " " " 17 July
P2E+P2L	" " 250 g, " early on 20 June and later on 17 July
P3E+FN6E	" " 394 g + fenpropimorph at 656 g applied early on 20 June
P3L+FN6L	Prochloraz + fenpropimorph at above rates applied later on 17 July

NOTE: Fungicides were applied in 200 l.

Basal applications: Manure: 'Nitram' at 220 kg. Weedkillers: Bromoxynil at 0.24 kg and clopyralid at 0.05 kg with bentazone at 0.96 kg in 200 l. Desiccant: Diquat at 0.60 kg ion, with a wetting agent, 'Vassgro' at 0.40 l, in 400 l.

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

Cultivations, etc.: Ploughed: 18 Oct, 1990. N applied: 9 Apr, 1991. Spring-tine cultivated, rotary harrowed, seed sown: 10 Apr. Weedkillers applied: 5 June. Desiccant with wetting agent applied: 2 Sept. Combine harvested: 9 Oct. Previous crops: W. wheat 1989 and 1990.

NOTE: The incidence of diseases was assessed regularly during the season.

91/R/LN/4

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNG R T	
NONE	1.52
PROC 4 E	1.77
PROC 5 E	1.51
PROC 4 L	1.54
PROC 5 L	1.85
P2E+P2L	1.58
P3E+FN6E	1.61
P3L+FN6L	1.76
Mean	1.64

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

FUNG R T
0.199

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.244	14.8
GRAIN MEAN DM%	84.7		
PLOT AREA HARVESTED	0.00345		