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76/R/WW/5 Fungicides - W. Wheat

Rothamsted Research

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76/R/WW/5

WINTER WHEAT

FUNGICIDES

Object: To study the effects of a range of fungicides on control of foliar and root diseases and on yield of winter wheat - Long Heos III.

Sponsors: J.F. Jenkyn, R.D. Prew.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 2.13 x 13.4.

Treatments: All combinations of:-

1. F FORM Fungicides, applied as foliar sprays:

ME 125	'ME 125' at 0.37 l a.i.
MEB 6447	'MEB-6447' (Triadimefon at 0.25 kg)
S	Wettable sulphur at 2.4 kg

2. F TIME Times of applying foliar fungicides:

E	Early (14 May, 1976, growth stage 6-7)
L	Late (15 June, growth stage 10.5.2)
E+L	Early plus late

EXTRA Plus two extra treatments:

NONE None (2 plots/block)

U 34910 Seed dressed with 'U-34,910' at 2.23 g a.i. per kg seed

NOTE: Sprays were applied in 340 l.

Basal applications: Manures: (10:24:24) at 250 kg, combine drilled, 'Nitro-Chalk' at 380 kg. Weedkillers: Paraquat at 0.42 kg ion in 220 l. Chlortoluron at 2.7 kg in 220 l. Dicamba with mecoprop and MCPA. ('Banlene Plus' at 5.6 l in 220 l).

Seed: Cama, sown at 190 kg.

Cultivations, etc.: - Paraquat applied to stubble: 7 Oct, 1975. Ploughed: 11 Oct. Heavy spring-tine cultivated: 16 Oct. Seed sown: 6 Nov. Chlortoluron applied: 23 Mar, 1976. N applied to all plots: 6-Apr. 'Banlene Plus' applied: 13 Apr. Combine harvested: 2 Aug. Previous crops: Oats 1974, wheat 1975.

NOTE: Mildew was assessed twice and samples were taken for root disease assessments.

76/R/WW/5

WINTER WHEAT

***** TABLES OF MEANS *****

F TIME	E	L	E+L	MEAN
F FORM				
ME 125	3.41	2.72	3.04	3.05
MEB 6447	3.12	2.92	3.66	3.23
S	2.87	2.94	2.87	2.89
MEAN	3.13	2.86	3.19	3.06
EXTRA	NONE	U 34910	MEAN	
	2.73	2.38	2.64	

GRAND MEAN 2.96

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	EXTRA	F FORM	F TIME	F FORM F TIME
SED	0.204	0.136	0.136	0.235
SED OF F FORM.F TIME v EXTRA NONE			0.204	
SED OF F FORM.F TIME v EXTRA U 34910			0.235	

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	23	0.288	9.8

GRAIN MEAN DM% 89.0

PLOT AREA HARVESTED 0.00195