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Yields of the Field Experiments 1979



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Rothamsted Research

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79/R/WS/1

SPRING WHEAT

FUNGICIDES AND GRAIN MICROFLORA

Object: To study the effects of a range of fungicides applied at a range of times on the yield, quality and grain microflora of spring wheat - Whittlocks.

Sponsor: J. Lacey.

Design: 2 randomised blocks of 24 plots.

Whole plot dimensions: 4.27 x 13.1.

Treatments: All combinations of:-

1. FUNGCIDE Broad spectrum fungicides:

CAPTAFOL Captafol at 1.4 kg

CARB+MAN Carbendazim at 0.25 kg + maneb at 1.6 kg

BENOMYL Benomyl (see Note (2))

2. APP TIME Application times of broad spectrum fungicides:

3 July 11 July 3 Aug

NONE None None None E Sprayed None None M None Sprayed None L None None Sprayed E+M Sprayed Sprayed None E+L Sprayed None Sprayed M+L None Sprayed Sprayed E+M+L Sprayed Sprayed Sprayed

NOTES: (1) Treatment sprays were applied in 340 1.

(2) First benomyl sprays were applied at 1.1 kg in error. The intended rate of 0.28 kg was used for both later applications.

Basal applications: Manures: (20:14:14) at 440 kg, combine drilled. Weedkillers: Bromoxynil and ioxynil (as 'Oxytril CM' at 1.4 kg) and mecoprop at 1.7 kg in 220 l.

Seed: Highbury, sown at 190 kg.

Cultivations, etc.:- Deep-tine cultivated twice: 31 Oct, 1978 and 2 Nov. Spring-tine cultivated, seed sown: 20 Apr, 1979. Weedkillers applied: 4 June. Combine harvested: 6 Sept. Previous cropping: Winter oats 1977, potatoes 1978.

NOTE: Grain microflora were assessed at fortnightly intervals after heading. Thousand grain weights were measured, and grain was assessed for germination and seedling growth.

79/R/WS/1

GRAIN TONNES/HECTARE

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

APP TIME FUNGCIDE	E	М	L	E+M	E+L	M+L	E+M+L	MEAN
CAPTAFOL CARB+MAN BENOMYL	5.51 5.54 5.82	5.61 5.66 5.54	5.82 5.32 5.33	5.50 5.80 5.92	5.73 5.57 5.86	5.55 5.71 5.35	5.89 5.61 6.13	5.66 5.60 5.71
MEAN	5.62	5.60	5.49	5.74	5.72	5.54	5.87	5.66

APP TIME NONE 5.36

GRAND MEAN 5.62

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

TABLE	FUNGCIDE	APP TIME	FUNGCIDE APP TIME	
SED	0.129	0.197	0.341	

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

STRATUM DF SE CV%

BLOCK.WP 25 0.341 6.1

GRAIN MEAN DM% 83.2

PLOT AREA HARVESTED 0.00195