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82/R/WW/6 Fungicides and Microflora - Winter Wheat

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82/R/WW/6

WINTER WHEAT

FUNGICIDES AND MICROFLORA

Object: To study the effects of a range of fungicides and times of application on the colonisation of fungi on flag leaves and developing ears and on the yield of w. wheat - Geescroft.

Sponsor: N. Magan.

Design: 2 randomised blocks of 24 plots.

Whole plot dimensions: 3.0 x 14.0.

Treatments: All combinations of:-

1. E FUNG Early-applied fungicides:

NONE	None
CARB+MAN	Carbendazim at 0.25 kg plus maneb at 1.6 kg applied on 26 May

2. L FUNG A Late-applied fungicides:

BE+MN+MZ	Benomy1 at 0.56 kg, plus maneb at 0.78 kg, and mancozeb at 0.78 kg
CAPTAFOL	Captafol at 1.4 kg
CARB+MAN	Carbendazim at 0.25 kg plus maneb at 1.6 kg
IMAZALIL	Imazalil at 0.39 kg
PROCHLOR	Prochloraz at 0.40 l

3. LFNGDATE Dates of applying late fungicide:

M	10 June, 1982
L	16 June

plus two extra treatments not given L FUNG:

L FUNG 0

NONE	No early-applied fungicide (duplicated)
CARB+MAN	Carbendazim at 0.25 kg plus maneb at 1.6 kg applied on 26 May (duplicated)

NOTE: Treatment sprays were applied in 340 l.

Basal applications: Manures: 'Nitro-Chalk' applied at 480 kg. Weedkillers: Mecoprop (as 'Methoxone' at 5.0 l) with isoproturon at 2.0 kg in 250 l.

Seed: Maris Huntsman, sown at 190 kg.

Cultivations, etc.:- Spring-tine cultivated: 8 Oct, 1981. Heavy spring-tine cultivated twice: 12 Oct. Spring-tine cultivated, rotary harrowed, seed sown: 13 Oct. Weedkillers applied: 15 Apr, 1982. N applied: 23 Apr. Combine harvested: 11 Aug. Previous crops: W. beans 1980, potatoes 1981.

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NOTE: Grain and leaf microflora, especially *Alternaria* and *Cladosporium*, were assessed fortnightly from June to August.

GRAIN TONNES/HECTARE

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

L FUNG A	BE+MN+MZ	CAPTAFOL	CARB+MAN	IMAZALIL	PROCHLOR	MEAN
E FUNG						
NONE	8.14	8.37	7.98	7.63	7.98	8.02
CARB+MAN	8.64	8.17	8.45	8.29	8.39	8.39
MEAN	8.39	8.27	8.22	7.96	8.19	8.20
LFNGDATE	M	L	MEAN			
E FUNG						
NONE	8.16	7.89	8.02			
CARB+MAN	8.38	8.39	8.39			
MEAN	8.27	8.14	8.20			
LFNGDATE	M	L	MEAN			
L FUNG A						
BE+MN+MZ	8.20	8.58	8.39			
CAPTAFOL	8.30	8.25	8.27			
CARB+MAN	8.38	8.05	8.22			
IMAZALIL	8.07	7.84	7.96			
PROCHLOR	8.40	7.97	8.19			
MEAN	8.27	8.14	8.20			
E FUNG	LFNGDATE	M	L			
NONE	L FUNG A					
	BE+MN+MZ	7.91	8.37			
	CAPTAFOL	8.50	8.25			
	CARB+MAN	8.32	7.64			
	IMAZALIL	7.65	7.60			
	PROCHLOR	8.39	7.58			
CARB+MAN	BE+MN+MZ	8.48	8.80			
	CAPTAFOL	8.09	8.25			
	CARB+MAN	8.44	8.46			
	IMAZALIL	8.49	8.08			
	PROCHLOR	8.42	8.36			
L FUNG O	NONE	CARB+MAN	MEAN			
	8.07	7.75	7.91			
GRAND MEAN	8.16					

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GRAIN TONNES/HECTARE

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

TABLE	L FUNG O	E FUNG	L FUNG A	LFNGDATE
SED	0.364	0.163	0.258	0.163

TABLE	E FUNG L FUNG A	E FUNG LFNGDATE	L FUNG A LFNGDATE	E FUNG L FUNG A LFNGDATE
SED	0.364	0.230	0.364	0.515

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

STRATUM	DF	SE	CV%
BLOCK.WP	25	0.515	6.3

GRAIN MEAN DM% 85.9

PLOT AREA HARVESTED 0.00204