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76/R/WW/8 Fungicides and Grain Microflora - W. Wheat

Rothamsted Research

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76/R/WW/8

WINTER 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 winter wheat - Long Hoos IV 4.

Sponsor: R.A. Hill.

Design: Single replicate of 2 x 3 x 2 x 2 x 2 fully randomised.

Whole plot dimensions: 2.41 x 8.23.

Treatments: All combinations of:-

1. SPECFUNG Specific fungicides for foliar pathogen control:

NONE	None
T+B	Tridemorph at 0.53 kg plus benodanil at 1.4 kg mixed and applied on 14 and 27 May

2. B S FUNG Broad spectrum fungicides:

BENOMYL	Benomyl at 0.28 kg
CAPTAFOL	Captafol at 1.4 kg
BEN+CAP	Benomyl and captafol at above rates applied separately

3. APP TIME Application of broad spectrum fungicides:

	3 June	24 June	8 July
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

NOTE: All sprays were applied in 340 l.

Basal applications: Manures: (0:14:28) at 880 kg. 'Nitro-Chalk' at 450 kg.

Seed: Cama, sown at 200 kg.

Cultivations, etc.:- PK applied: 23 Sept, 1975. Ploughed: 26 Sept. Power harrowed and sown: 14 Oct. N applied: 10 May, 1976. Combine harvested: 28 July. Previous crops: Spring wheat 1974, fallow 1975.

NOTE: Grain microflora were assessed at fortnightly intervals from late May to harvest. Mildew and rust were assessed on several occasions. Eyespot and glume blotch were assessed before harvest.

76/R/WW/8

GRAIN TONNES/HECTARE

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

ALL PLOTS

APP TIME	NONE	E	M	L	E+M	E+L	M+L	E+M+L	MEAN
SPECFUNG									
NONE	5.84	5.83	5.89	5.93	5.84	6.03	5.54	5.58	5.82
T+B	5.68	5.93	6.19	5.72	5.65	6.00	5.87	5.87	5.86
MEAN	5.76	5.88	6.04	5.82	5.75	6.04	5.70	5.73	5.84

EXCLUDING APP TIME NONE

APP TIME	E	M	L	E+M	E+L	M+L	E+M+L	MEAN
B S FUNG								
BENOMYL	5.76	6.21	5.99	5.71	6.30	5.53	5.68	5.88
CAPTAFOL	5.98	5.60	6.26	5.54	5.83	5.73	5.57	5.79
BEN+CAP	5.90	6.31	5.21	5.98	6.01	5.85	5.93	5.89
MEAN	5.88	6.04	5.82	5.75	6.04	5.70	5.73	5.85

B S FUNG	BENOMYL	CAPTAFOL	BEN+CAP	MEAN
SPECFUNG				
NONE	5.76	5.69	5.98	5.81
T+B	6.00	5.88	5.79	5.89
MEAN	5.88	5.79	5.89	5.85

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

TABLE	SPECFUNG	B S FUNG	APP TIME	SPECFUNG B S FUNG
SED	0.130 0.139*	0.170	0.260	0.241

TABLE	SPECFUNG APP TIME	B S FUNG APP TIME
SED	0.368	0.451

* USE ONLY WITH TABLES EXCLUDING APP TIME NONE

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

STRATUM	DF	SE	CV%
WP	16	0.451	7.7

GRAIN MEAN DM% 87.8

PLOT AREA HARVESTED 0.00111