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78/R/WS/3 Fungicides and Grain Microflora - S. Wheat

Rothamsted Research

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78/R/WS/3

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 - Summerdells I.

Sponsor: R.A. Hill.

Design: 2 randomised blocks of 3 x 2 x 2 x 2.

Whole plot dimensions: 4.27 x 13.1.

Treatments: All combinations of:-

1. FUNGICIDE Broad spectrum fungicides:

CAPTAFOL	Captafol at 1.4 kg
CARB+MAN	Carbendazim at 0.25 kg + maneb at 1.6 kg
BENOMYL	Benomyl at 1.1 kg

2. APP TIME Application times of broad spectrum fungicides:

	10 July	20 July	11 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

NOTE: Treatment sprays were applied in 340 l.

Basal applications: Manures: (20:14:14) at 440 kg, combine drilled. Weedkiller: Mecoprop at 2.5 kg in 220 l.

Seed: Timmo, sown at 190 kg.

Cultivations, etc.: Chisel ploughed twice: 8 and 10 Nov, 1977. Spring-tine cultivated twice and seed sown: 13 Mar, 1978. Weedkiller applied: 22 May. Combine harvested: 15 Sept. Previous crops: Winter oats 1976, potatoes 1977.

NOTE: Grain microflora were assessed weekly after heading. Thousand grain weights were measured, and grain was assessed for germination, vigour and breadmaking quality.

78/R/WS/3

GRAIN TONNES/HECTARE

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

APP TIME FUNGICIDE	E	M	L	E+M	E+L	M+L	E+M+L	MEAN
CAPTAFOL	6.50	6.75	6.18	6.35	6.82	6.55	6.80	6.57
CARB+MAN	6.86	6.50	6.38	6.71	6.55	6.82	6.86	6.67
BENOMYL	6.38	6.50	6.25	6.53	6.48	6.62	6.71	6.50
MEAN	6.58	6.59	6.27	6.53	6.62	6.66	6.79	6.58

APP TIME NONE 6.31

GRAND MEAN 6.54

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

TABLE	FUNGICIDE	APP TIME	FUNGICIDE APP TIME
SED	0.098	0.150	0.259

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

STRATUM	DF	SE	CV%
BLOCK.WP	25	0.259	4.0

GRAIN MEAN DM% 80.5

PLOT AREA HARVESTED 0.00195