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Yields of the Field Experiments 1980



Full Table of Content

80/R/WS/1 Spring Wheat Fungicides and Alternaria

Rothamsted Research

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80/R/WS/1

SPRING WHEAT

FUNGICIDES AND ALTERNARIA

Object: To study the effects of a range of fungicides, and times of application, on the incidence of fungi, especially Alternaria, on the ripening grain and on the yield of s. wheat - Delafield.

Sponsor: N. Magan.

Design: 2 randomised blocks of 24 plots.

Whole plot dimensions: 4.27 x 16.2.

Treatments: All combinations of:-

E FUNG Early-applied fungicide:

NONE None

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

on 9 June 1980

2. L FUNG Late-applied fungicide:

BENOMYL Benomyl at 0.56 kg
PROCHLOR Prochloraz at 0.50 kg
CAPTAFOL Captafol at 1.40 kg

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

IMAZALIL Imazalil at 0.5 kg

3. LFNGDATE Dates of applying late fungicide:

25 JUNE 7 JULY

plus two extra treatments not given L FUNG:

L FNG 0

NONE No early-applied fungicide (duplicated)

CARB+MAN Carbendazim at 0.25 kg plus maneb at 1.6 kg applied on

9 June (duplicated)

NOTE: Treatment sprays were applied in 340 1.

Basal applications: Manures: (20:10:10) at 450 kg, combine drilled.

Weedkillers: Dicamba with mecoprop and MCPA (as 'Banlene Plus' at 5.0 1)
in 250 l.

Seed: Timmo, sown at 190 kg.

Cultivations, etc.:- Subsoiled with times 160 cm apart and 40 cm deep: 2 Nov, 1979. Chisel ploughed twice: 4 Dec. Spring-time cultivated, seed sown: 6 Apr, 1980. Weedkillers applied: 27 May. Combine harvested: 4 Sept. Previous crops: S. beans and kale 1978, potatoes 1979.

80/R/WS/1

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

GRAIN TONNES/HECTARE

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

L FUNG E FUNG	BENOMYL P	ROCHLOR	CAPTAFOL	CARB+MAN	IMAZALIL	MEAN
NONE	4.33	4.51	4.51	4.50	4.14	4.40
CARB+MAN	4.86	4.75	4.72	4.50	4.83	4.73
CARD TRAIN	4.00					
MEAN	4.59	4.63	4.62	4.50	4.48	4.56
LFNGDATE E FUNG	25 JUNE	7 JULY	MEAN			
NONE	4.39	4.40	4.40			
CARB+MAN	4.78	4.68	4.73			
MEAN	4.59	4.54	4.56			
LFNGDATE L FUNG	25 JUNE	7 JULY	MEAN			
BENOMYL	4.77	4.41	4.59			
PROCHLOR	4.56	4.70	4.63			
CAPTAFOL	4.60	4.64	4.62			
CARB+MAN	4.56	4.43	4.50			
IMAZALIL	4.44	4.53	4.48			
MEAN	4.59	4.54	4.56			
	LFNGDATE	The state of the s	INE 7 JU	JLY		
E FUNG	L FUNG		27 4	00		
NONE	BENOMYL	1000		.28		
	PROCHLOR			.70		
	CAPTAFOL			.52		
	CARB+MAN			.44		
0400 -1441	IMAZALIL			.07		
CARB+MAN	BENOMYL			.54		
	PROCHLOR			.70		
	CAPTAFOL			.75 .42		
	CARB+MAN	-				
	IMAZALIL	. 4.	.66 5.	.00		
L FUNG 0	NONE	CARB+N	IAN ME	EAN		
	4.44	4.	.92 4.	.68		

GRAND MEAN 4.58

80/R/WS/1

GRAIN TONNES/HECTARE

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

TABLE		L FNG 0	E FUNG	L FUNG	LFNGDATE
SED		0.285	0.127	0.202	0.127
TABLE	HALAM	E FUNG	E FUNG LFNGDATE	L FUNG LFNGDATE	E FUNG L FUNG LFNGDATE
SED	10.4	0.285	0.180	0.285	0.403

SED FOR COMPARING A MEAN IN E FUNG.L FUNG.LFNGDATE TABLE WITH A L FNG O MEAN IS 0.247

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

STRATUM DF SE CV%

BLOCK.WP 25 0.403 8.8

GRAIN MEAN DM% 79.1

PLOT AREA HARVESTED 0.00260