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75/ Rtws/1 - Control of Foliar Diseases - Spring Wheat

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75/R/WS/1

SPRING WHEAT

CONTROL OF FOLIAR DISEASES

Object: To study the effects of a range of fungicides on the incidence of foliar diseases and yield of spring wheat - Fosters Corner.

Sponsors: J.F. Jenkyn, A. Bainbridge.

Design: 3 randomised blocks of 7 plots.

Whole plot dimensions: 4.27 x 9.14.

Treatments: Fungicide and methods of application:-	FUNGICIDE
None	C
Benodanil foliar spray on 18 June and 18 July	BS 2
Carbendazim foliar spray on 18 June and 18 July	CS 2
MEB 6447 foliar spray on 18 June and 18 July	MS 2
Tridemorph foliar spray on 18 June and 18 July	TS 2
MEB 6447 seed dressing and MEB 6447 foliar spray on 18 July	MD MS 1
MEB 6447 seed dressing and benodanil, carbendazim, MEB 6447, tridemorph foliar sprays on 18 June and 18 July	ME ALL S

NOTES: (1) All foliar fungicides were applied in 340 l:-

- (a) Benodanil at 1.12 kg with 175 ml Cistowett.
- (b) Carbendazim at 0.25 kg.
- (c) MEB 6447 at 0.25 kg a.i.
- (d) Tridemorph at 0.53 kg.

(2) MEB 6447 seed dressing was applied at 50 g a.i. per 100 kg seed.

Basal applications: Manures: (20:14:14) at 380 kg combine drilled.

Weedkiller: Dicamba with mecoprop and MCPA ('Tetralex Plus' at 7.0 l in 220 l).

Seed: Kleiber, sown at 190 kg.

Cultivations, etc.: - Ploughed: 11 Nov, 1974. Spring-tine cultivated:

21 Apr, 1975. Spring-tine cultivated and rotary harrowed: 24 Apr.

Seed sown and harrowed in: 25 Apr. Weedkiller applied: 13 June.

Combine harvested: 28 Aug. Previous crops: Barley 1973, beans 1974.

NOTES: (1) MEB 6447 seed dressing lessened germination.

(2) Mildew was assessed on three occasions.

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*** TABLE OF MEANS ***

GRAIN TONNES/HECTARE

FUNGCIDE	0	BS 2	CS 2	MS 2	TS 2	MD MS 1	MD ALL S	MEAN
	2.77	2.77	2.92	3.24	2.96	2.90	2.45	2.86

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

TABLE	FUNGCIDE
SED	0.166

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.204	7.1

GRAIN MEAN DM% 87.0

PLOT AREA HARVESTED 0.00195