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79/R/WW/5 Fungicides - W. Wheat

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79/R/WW/5

WINTER WHEAT

FUNGICIDES

Object: To study the effects of a range of fungicides and two methods of application on the incidence of diseases and on the yield of winter wheat - Webbs.

Sponsors: J.F. Jenkyn, R.D. Prew.

Design: 3 randomised blocks of 14 plots.

Whole plot dimensions: 2.13 x 13.4.

Treatments:

FUNGICIDE	Fungicides and methods of application:
NONE	None
BAS389 S	'BAS 389' as a seed dressing at 1 g a.i. per kg of seed
BENOD F	Benodanil as a foliar spray at 1.1 kg
BTS S	'BTS 40542' as a seed dressing at 0.2 g a.i. per kg of seed
BTS F	'BTS 40542' as a foliar spray at 0.4 kg
CARBOX S	Carboxin as a seed dressing at 1.5 g per kg of seed
CARBOX F	Carboxin as a foliar spray at 1.1 kg
EL228 S	'EL 228' as a seed dressing at 0.2 g a.i. per kg of seed
EL228 F	'EL 228' as a foliar spray at 0.04 kg a.i.
H719 S	'H 719' as a seed dressing at 1.5 g a.i. per kg of seed
H719 F	'H 719' as a foliar spray at 1.1 kg a.i.
OM S	Organo-mercury as a seed dressing ('Agrosan GN' at 2.2 g per kg of seed)
PP296 F	'PP 296' as a foliar spray at 0.125 kg
TRIAD S	Triadimefon as a seed dressing at 0.5 g per kg of seed

NOTES: (1) All seed dressing treatments (except organo-mercury) were sown at 220 kg. All remaining treatments were sown at 190 kg.
(2) Foliar sprays were applied on 1 June, 1979 in 340 l.

Basal applications: Manures: (10:23:23) at 250 kg. 'Nitro-Chalk' at 460 kg.
Weedkillers: Paraquat at 0.42 kg ion in 220 l. Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 0.25 kg in 220 l).

Seed: Kador.

Cultivations, etc.: - Deep-tine cultivated twice: 31 Aug, 1978 and 1 Sept.
Heavy spring-tine cultivated: 14 Sept. NPK applied: 17 Oct. Paraquat applied: 18 Oct. Rolled and disc harrowed: 23 Oct. Seed sown: 24 Oct.
N applied: 19 Apr, 1979. 'Brittox' applied: 14 May. Combine harvested: 31 Aug. Previous cropping: Wheat 1977, barley 1978.

NOTE: Foot and root rots were assessed in spring and summer. Leaf diseases were assessed in late summer.

79/R/WW/5

GRAIN TONNES/HECTARE

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

FUNGCIDE	
NONE	4.77
BAS389 S	5.13
BENOD F	4.50
BTS S	5.65
BTS F	5.38
CARBOX S	5.16
CARBOX F	4.85
EL228 S	5.43
EL228 F	4.89
H719 S	4.68
H719 F	5.11
OM S	5.55
PP296 F	5.43
TRIAD S	5.68
MEAN	5.16

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

TABLE	FUNGCIDE
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SED	0.407

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

STRATUM	DF	SE	CV%
BLOCK.WP	26	0.498	9.7

GRAIN MEAN DM% 86.1

PLOT AREA HARVESTED 0.00195