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81/R/CS/256 Fungicides and Soil-borne Diseases - W. Wheat

Rothamsted Research

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81/R/CS/256

WINTER WHEAT

FUNGICIDES AND SOIL-BORNE DISEASES

Object: To study the residual effects of a range of soil-applied fungicides on soil-borne diseases and yield of w. wheat - Claycroft.

Sponsor: G.L. Bateman.

The second year, w. wheat.

For previous year see 80/R/WW/7.

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 2.13 x 12.2.

Treatments:

FUNGICIDE(80)	Residues of fungicides and times and methods of application for w. wheat harvested 1980:
NONE	None (duplicated)
BEN A	Benomyl at 20 kg, worked in to seedbed in autumn
BEN S	Benomyl at 20 kg, as a drench in 5400 l in spring
CHL A	Chloroneb at 14 kg, worked in to seedbed in autumn
KWG A+S	'KWG 0599' at 23 kg a.i. worked in to seedbed in autumn, repeated as a drench in 5400 l in spring
NUA A+S	Nuarimol at 4.4 kg worked in to seedbed in autumn, repeated as a drench in 5400 l in spring

Basal applications: Manures: (10:23:23) at 250 kg, combine drilled.
'Nitro-Chalk' at 560 kg. Weedkillers: Paraquat at 0.84 kg ion in 250 l.
Isoproturon at 2.1 l in 250 l. Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 3.7 l) in 250 l.

Seed: Flanders, with no seed dressing, sown at 200 kg.

Cultivations, etc.: - Heavy spring-tine cultivated twice: 12 Sept, 1980, 16 Sept. Paraquat applied: 3 Oct. Rotary harrowed: 6 Oct. Seed sown: 9 Oct. Isoproturon applied: 9 Apr, 1981. N applied: 15 Apr. 'Brittox' applied: 23 Apr. Combine harvested: 26 Aug.

NOTE: Foot and root rots were assessed monthly between April and July.

81/R/CS/256

GRAIN TONNES/HECTARE

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

FUNGCIDE(80)	NONE	BEN A	BEN S	CHL A	KWG A+S	NUA A+S	MEAN
	6.68	6.76	7.28	6.64	7.00	7.26	6.90

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

TABLE	FUNGCIDE(80)
SED	0.171 MIN REP 0.148 MAX-MIN

	FUNGCIDE(80)
MAX-MIN	NONE V ANY OF REMAINDER
MIN REP	ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	19	0.242	3.5

GRAIN MEAN DM% 86.2

PLOT AREA HARVESTED 0.00176