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80/R/WW/7 Winter Wheat Fungicides and Soil-borne Diseases

Rothamsted Research

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80/R/WW/7

WINTER WHEAT

FUNGICIDES AND SOIL-BORNE DISEASES

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

Sponsor: G.L. Bateman.

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 2.13 x 12.2.

Treatments:

FUNGICIDE	Fungicides and times and methods of application:
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 0.56 kg ion in 220 l.
Mecoprop at 2.5 l in 280 l.

Seed: Flanders, no seed dressing, sown at 190 kg.

Cultivations, etc.: - Heavy spring-tine cultivated twice: 20 Sept, 1979.
Heavy spring-tine cultivated: 4 Oct. Autumn treatments applied: 11 Oct.
Paraquat applied: 16 Oct. Seed sown: 18 Oct. N applied: 11 Apr, 1980.
Mecoprop applied: 16 Apr. Spring treatments applied: 24 Apr.
Combine harvested: 21 Aug. Previous crops: W. wheat 1978, s. barley 1979.

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

80/R/WW/7

GRAIN TONNES/HECTARE

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

FUNGCIDE	NONE	BEN A	BEN S	CHL A	KWG A+S	NUA A+S	MEAN
	9.47	9.60	9.78	9.42	9.75	8.65	9.45

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

TABLE	FUNGCIDE
SED	0.207 MIN REP 0.179 MAX-MIN

FUNGCIDE
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	0.292	3.1

GRAIN MEAN DM% 83.4

PLOT AREA HARVESTED 0.00176