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80/R/CS/250 Control of Cephalosporium

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80/R/CS/250

CONTROL OF CEPHALOSPORIUM

Object: To study the effects of aldicarb, benomyl and HCH on the incidence of Cephalosporium Stripe (*Cephalosporium gramineum*) and on the yield of w. wheat - New Zealand.

Sponsors: R.J. Gutteridge, K.E. Fletcher.

The first year, w. wheat.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 2.67 x 6.10.

Treatments:

CHEMICAL	Chemicals and methods of application:
NONE	None (5 plots per block)
ALDICARB	Aldicarb at 10 kg worked in to seedbed
BENOMYL	Benomyl at 20 kg worked in to seedbed
HCH	HCH seed dressing at 0.4 g per kg seed

NOTE: (1) Soil treatments were applied on 8 Oct, 1979.
(2) Benomyl was applied as a drench in 11,200 l of water.

Basal applications: Manures: (10:23:23) at 250 kg, combine drilled.
'Nitro-Chalk' at 340 kg. Weedkiller: Mecoprop at 2.5 l in 220 l.
Growth regulator: Chlormequat at 1.4 l in 250 l.

Seed: Bounty, sown at 180 kg.

Cultivations, etc.: - Chisel ploughed: 29 June, 1979, 3 July, 4 July, 17 July. Rotary cultivated: 6 July, 20 Aug. Spring-tine cultivated: 17 July, 27 Sept. Rotary harrowed, seed sown: 8 Oct. Weedkiller applied: 1 Mar, 1980. N applied: 8 Apr. Growth regulator applied: 6 May. Combine harvested: 23 Aug. Previous crops: Grass 1978 and 1979.

NOTES: Wireworm populations were assessed in August 1979, plant emergence in November, plant and shoot damage by stem borers in February, wireworms in May and incidence of Cephalosporium, take-all, and Phialophora in June.

80/R/CS/250

GRAIN TONNES/HECTARE

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

CHEMICAL	NONE	ALDICARB	BENOMYL	HCH	MEAN
	9.30	9.30	9.41	9.14	9.29

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

TABLE	CHEMICAL
SED	0.172 MIN REP 0.134 MAX-MIN

	CHEMICAL
MAX-MIN	NONE V ANY OF THE REMAINDER
MIN REP	ANY OF THE REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	18	0.211	2.3

GRAIN MEAN DM% 85.3

PLOT AREA HARVESTED 0.00161