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Yields of the Field Experiments 1972



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Rothamsted Research

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72/R/B/5

BARLEY

CONTROL OF CEREAL APHIDS AND BYDV

Object: To study the effects of controlling cereal aphids on the incidence of barley yellow dwarf virus and yield of barley - Whittlocks.

Sponsor: R.T. Plumb.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 6.40 x 24.4. Area harvested: 0.00390.

Treatments: All combinations of:-

1. Phorate, as granules to seedbed: 0, 2.5, 5.0 kg.

2. Menazon, spray, in late May (M): None (O), menazon ('Saphi-Col' at 0.7 l in 370 l) applied on 1 June (S).

3. Menazon in late June (J): None (0), menazon ('Saphi-Col' at 0.71 in 4401) applied on 30 June (S).

Basal applications: 440 kg (20:15:15) combine drilled. Weedkiller: Bromoxynil, ioxynil, dichlorprop and MCPA ('Tetroxone' at 5.6 l in 220 l).

Seed: Julia sown at 160 kg.

Cultivations, etc.: Deep-tine cultivated: 9 Nov, 1971. Phorate applied: 25 Mar. Seed combine drilled: 29 Mar, 1972, Weedkiller applied: 8 May. Combine harvested: 24 Aug. Previous crops: Potatoes 1970, fallow 1971.

NOTE: Counts of plants with virus symptoms and of numbers and species of aphids were made on four occasions. Estimates of mildew infection (Erysiphe graminis) were made on two occasions. All plots were badly lodged at harvest.

Standard error per plot.
Grain, tonnes/hectare: 0.219 or 3.4% (33 d.f.)

72/R/B/5 TABLES OF MEANS

GRAIN: TONNES/HECTARE

			1	J			
edgley	1 Val	0	s s	0	difters yleid	S	Mean
PHORATE:	KG/HA				:5	phat.t.	Teanoga
0 2.5 5.0	SEC0.0 :	6.36 6.58 6.59	6.56 6.51 6.53	6.4	18	6.51 6.61 6.66	6.46 6.55 6.56
	(2 ¹) is		0 S	6.4	μ <u>μ</u> +7	6.58 6.60	6.51
Mean		1. UBE	AL (30) CV . C	6.4	15	6.59	6.52
M			0	A Partie	S		
J (f	0SS ri y	00 00 1	anoxos s	994 0		S	
PHORATE:	KG/HA	purpose (land lamin	m lidev be	esoub 1	ay Tyngs	
0 2.5 5.0	of malo	6.26 6.52 6.54	6.46 6.64 6.65	6.5 6.4 6.4	4	6.55 6.59 6.67	
		STANDA	RD ERRORS	OF DIFFEF	RENCES		
PHORATE	M State of	in Agrica lor thron ers made, r ascensus	PHORATE M	PHDRATE J	M J	PHORA M J	ATE
0.078	0.063	0.063	0.110	0.110	0.090	0.155	

312

Mean D.M. %: 85.2