

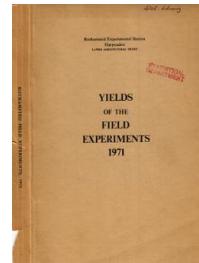
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71/R/B/5 Control of Cereal Aphids and Bydv - Barley

Rothamsted Research

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71/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 - Great Knott III.

Design: 4 blocks of 2 x 2 x 2 randomisation restricted.

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

Treatments: Insecticides. All combinations of:-

1. Granules broadcast at sowing: None (0), 4.50 kg phorate (GE).
2. Spray in May: None (0), menazon ('Saphicol' at 0.70 l in 449 l) (SM).
3. Spray in June: None (0), menazon ('Saphicol' at 0.70 l in 449 l) (SL).

Basal applications: 437 kg (20:10:10) combine drilled. Weedkillers: Paraquat at 0.56 kg ion in 225 l. Ioxynil octanoate, bromoxynil octanoate and the iso-octyl ester of dichlorprop ('Oxytril P' at 1.40 l in 225 l).

Cultivations, etc.: Paraquat applied: 14 Oct, 1970. Ploughed: 2 Nov. Phorate applied to GE plots, all plots rotary cultivated, seed combine drilled at 157 kg: 12 Mar, 1971. 'Oxytril P' applied: 11 May. Menazon applied: SM plots - 24 May, SL plots - 23 June. Combine harvested: 19 Aug. Variety: Julia. Previous crops: Potatoes 1969, winter wheat 1970.

NOTE: Virus infection was assessed and samples were taken for aphid incidence.

Standard error per plot.

Grain, tonnes/hectare: 0.154 or 2.67 (21 d.f.)

71/R/B/5

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

	O	SM	O	SL	Mean
	(±0.055)		(±0.055)		(±0.039)
O GE	5.75 6.12	5.93 6.23	5.84 6.19	5.84 6.16	5.84 6.18
			(±0.055)		(±0.039)
	O SM		5.95 6.08	5.92 6.09	5.93 6.08
Mean (±0.039)			6.01	6.00	6.01

	O	SL	O	SL	GE
	(±0.077)				
O SM	5.72 5.95	5.77 5.92	6.18 6.20	6.07 6.25	
Mean D.M. %	85.5				