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## Yields of the Field Experiments 1971

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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 2.6% (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	5.75	5.93	5.84	5.84	5.84
GE	6.12	6.23	6.19	6.16	6.18
			(±0.055)		(±0.039)
		O	5.95	5.92	5.93
		SM	6.08	6.09	6.08
Mean (±0.039)			6.01	6.00	6.01

	O		GE	
	O	SL	O	SL
	(±0.077)			
O	5.72	5.77	6.18	6.07
SM	5.95	5.92	6.20	6.25

Mean D.M.  $\bar{x}$ : 85.5