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Yields of the Field Experiments 1974

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74/R/BE/6 Control of Weevils - Beans

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74/R/BE/6

SPRING BEANS

CONTROL OF WEEVILS

Object: To study the effects of several insecticides on the yield and control of weevils and weevil-transmitted viruses of field beans - Dell Piece.

Sponsors: A.J. Cockbain, P. Etheridge.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 8.53 x 12.2. Area harvested: 0.00390.

Treatments: All combinations of insecticides:

1. Sprays to foliage	SPRAY
None	None
Fenitrothion at 0.75 kg	Fenitro
Malathion at 1.0 kg	Malathio
Methomyl at 1.0 kg	Methomyl
2. Granules to foliage	GRANULE
None	None
Phorate at 1.0 kg	Phorate

NOTE: Sprays, in 500 l, and granules were applied on 15 May, 30 May and 19 June.

Basal applications: Manures: (0:14:28) at 400 kg. Weedkiller: Simazine at 1.1 kg in 220 l. Insecticides: Demeton-s-methyl at 0.25 kg in 220 l.

Seed: Maris Bead, sown at 220 kg.

Cultivations, etc.: Ploughed: 3 Jan, 1974. Spring-tine cultivated twice: 27 Mar. Rotary harrowed: 1 Apr. Seed sown and spring-tine cultivated: 2 Apr. Simazine applied: 5 Apr. Demeton-s-methyl applied: 13 June. Combine harvested: 26 Sept. Previous crops: Fallow 1972, winter wheat 1973.

74/R/EE/6

NOTE: Amounts of damage by weevils (*Apion* and *Sitona*) were recorded on 9 May and 25 May. Numbers of adults were estimated on 12 June. Incidence of viruses was assessed on 25 April, 12 June, 4 and 23 July and samples of seed were taken at harvest to assess virus infection.

Standard error per plot.

Grain, tonnes/hectare: 0.472 or 12.1% (14 d.f.)

TABLES OF MEANS

GRAIN: TONNES/HECTARE

	SPRAY				Mean
	None	Fenitro	Malathio	Methomyl	
GRANULE					
None	3.55	3.84	4.41	3.45	3.82
Phorate	4.42	3.58	3.89	4.10	4.00
Mean	3.98	3.71	4.15	3.78	3.91

STANDARD ERRORS OF DIFFERENCES

GRANULE	SPRAY	GRANULE SPRAY
0.193	0.273	0.385

Mean D.M.% 65.2