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Yields of the Field Experiments 1973

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73/R/CS/95 - Control of Pests , Diseases - Beans

Rothamsted Research

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73/R/CS/95

CONTROL OF PESTS AND DISEASES

Object: To study the effect of a range of chemicals on pest and disease incidence and yield of beans using a seed stock free of seed-borne viruses and a site isolated from other bean crops (see also 73/R/BE/5) - West Barnfield I.

Sponsors: A.J. Cockbain, R. Gardner, G.A. Salt.

The second year, spring beans...

For previous year see 72/R/CS/95(t).

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 6.40 x 19.2. Area harvested: 0.00615.

Treatments: Chemicals, applied cumulatively 1972 and 1973 (kg)

	CHEMICAL
None (two plots per block)	None
Aldicarb, nematocide/insecticide, 4.5 as granules	Aldicarb
Gamma DHC, insecticide, 2.2 in 290 l	DHC
Dexon fungicide, 78.5 in 2600 l	Dexon
Dieldrin insecticide, 2.2 in 290 l	Dieldrin

Basal applications: Manures: (0:14:28) at 400 kg placement drilled.
Weedkillers: Paraquat at 0.56 kg ion in 220 l. Simazine at 0.84 kg in 220 l. **Insecticide:** Demeton-s-methyl at 0.25 kg in 370 l.

Seed: Minor, sown at 220 kg.

Cultivations, etc.:- Paraquat applied: 5 Oct, 1972. Treatments applied and all plots rotary cultivated: 13 Mar, 1973. Seed sown: 14 Mar. Simazine applied: 15 Mar. Insecticide applied: 8 June. Combine harvested: 4 Sept.

NOTE: Incidence of viruses was assessed on 9 May, 29 June and 23 July. Adult weevil damage was assessed on 17 May and weevil populations on 8 June. Crop was examined for wilt on 6 June and sampled for root health on 2 Aug.

Standard error per plot.

Grain, tonnes/hectare: 0.217 or 5.7% (16 d.f.)

73/R/CS/95

TABLES OF MEANS

GRAIN: TONNES/HECTARE

CHEMICAL					
None*	Aldicarb	BHC	Dexon	Dieldrin	Mean
3.73	3.78	4.31	3.40	4.01	3.82

STANDARD ERRORS OF DIFFERENCES

CHEMICAL

None v any of remainder 0.133
Between remainder 0.154

Mean D.M. % 83.0

* Duplicated treatment