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72/R/CS/95 Control of Pests and Diseases - S. Beans

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72/R/CS/95

CONTROL OF PESTS AND DISEASES

Object: To study the effects 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 72/R/BE/3) - West Barnfield I.

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

The first year, spring beans.

Design: 4 randomised blocks of 6 plots.

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

Treatments (T): None (O)
Aldicarb nematocide at 4.5 kg applied in granules (A)
Gamma BHC insecticide at 2.2 kg in 2220 l (B)
Dexon fungicide at 79 kg in 4440 l (DE)
Dieldrin insecticide at 2.2 kg in 2220 l (DI)
One plot per block was reserved without treatment (R)
Treatments applied and all plots rotary cultivated: 24 Mar, 1972.

Basal applications: Ground chalk at 7.5 tonnes. 400 kg (0:14:28) placement drilled. Weedkillers: Paraquat at 0.42 kg ion in 220 l. Simazine at 0.84 kg in 220 l. Insecticide: Demeton-s-methyl at 0.25 kg in 440 l.

Seed: Minor, sown at 220 kg.

Cultivations, etc.: Chalk applied: 3 Sept, 1971. Paraquat applied: 24 Sept. Ploughed: 13 Nov. Seed placement drilled: 25 Mar, 1972. Simazine applied: 2 May. Demeton-s-methyl applied: 24 June. Combine harvested: 25 Sept. Previous crops: Winter wheat 1970, barley 1971.

NOTE: Incidence of viruses was assessed on 3 occasions. Infestations by weevils, aphids and stem eelworm were also assessed.

Standard error per plot.

Grain, tonnes/hectare: 0.179 or 4.8% (23 d.f.)

72/R/CS/95

TABLES OF MEANS

GRAIN: TONNES/HECTARE

O*	T				Mean
	A	B	DE	DI	
3.58	3.59	3.70	3.90	3.92	3.71

STANDARD ERRORS OF DIFFERENCES

T	
Between any of A, B, DE or DI	0.127
O v any of A, B, DE or DI	0.110

Mean D.M. %: 80.6

* Duplicated treatment