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Yields of the Field Experiments 1972

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72/R/BE/3 Spring Beans Control of Pests and Diseases

Rothamsted Research

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72/R/BE/3

SPRING BEANS

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 infected with seed-borne viruses and not isolated from other bean crops (see also 72/R/CS/95) - Great Knott III.

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

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 6.40 x 15.2. Area harvested: 0.00615.

Treatments (T): None

Aldicarb nematicide at 4.5 kg applied in granules

Gamma BHC insecticide at 2.2 kg in 2220 l

Dexon fungicide at 79 kg as a dust

Dieldrin insecticide at 2.2 kg in 2220 l

Treatments applied and all plots rotary cultivated: 23 Mar, 1972.

(O)
(A)
(B)
(DE)
(DI)

Basal applications: Ground chalk at 7.5 tonnes. FYM at 30 tonnes. 400 kg (0:14:28) 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 440 l.

Seed: Maris Bead, sown at 220 kg.

Cultivations, etc.: Chalk applied: 3 Sept, 1971. Paraquat applied: 30 Sept
FYM applied: 15-22 Nov. Ploughed: 15-24 Nov. Seed placement drilled:
24 Mar, 1972. Simazine applied: 2 May. Demeton-s-methyl applied:
24 June. Combine harvested: 26 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: 0.191 or 5.2% (12 d.f.)

72/R/BE/3

TABLE OF MEANS

GRAIN: TONNES/HECTARE

T					Mean
O	A	B	DE	DI	
3.43	3.95	3.60	3.81	3.58	3.68

STANDARD ERROR OF DIFFERENCES

T 0.135

Mean D.M.%: 82.5