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Yields of the Field Experiments 1973

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73/R/BE/7 - Effects of Aphids - Beans

Rothamsted Research

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73/R/BE/7

SPRING BEANS

EFFECTS OF APHIDS

Object: To study the effects of applying liquid or granular insecticides at different times on yield and aphid control - Great Knott II.

Sponsors: R. Bardner, J.H. Stevenson, K.E. Fletcher.

Design: 5 randomised blocks of 6 plots.

Whole plot dimensions: 5.34 x 12.2. Area harvested: 0.00390.

Treatments: Insecticides:-

INSC TCDE

None	O
Phorate at 1.12 kg as granules:	
At start of flowering, 7 June	PGE
At end of flowering, 9 July	PGL
Demeton-s-methyl at 0.25 kg in 370 l:	
At start of flowering, 6 June	DSE
At end of flowering, 9 July	DSL
At start and again at end of flowering	DSEL

Basal applications: Manures: Ground chalk at 7.5 tonnes. (0:20:20) at 1300 kg and Epsom salts at 900 kg to part which did not receive this dressing in 1970. (0:14:28) at 400 kg, placement drilled. Weedkiller: Simazine at 1.1 kg in 220 l.

Seed: Maris Bead, sown at 220 kg.

Cultivations, etc.:- PK applied: 21 Sept, 1972. Epsom salts applied: 22 Sept. Chalk applied: 25 Sept. Ploughed: 22 Nov. Spring-tine cultivated: 8 Mar, 1973. Seed sown: 9 Mar. Weedkiller applied: 16 Mar. Combine harvested: 3 Sept. Previous crops: Winter wheat 1971, barley 1972.

NOTE: Aphid counts were made throughout the season.

Standard error per plot.

Grain, tonnes/hectare: 0.375 or 9.3% (20 d.f.)

73/R/BE/7

TABLES OF MEANS

GRAIN: TONNES/HECTARE

INSCTCDE						
0	PGE	PGL	DSE	DSL	DSEL	Mean
3.70	4.38	3.65	4.21	3.90	4.27	4.02

STANDARD ERROR OF DIFFERENCES

INSCTCDE

0.237

Mean D.M. % 83.7