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Numerical Results of the Field Experiments 1970

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70/R/BE/2 Spring Beans Effects of Aphids

Rothamsted Research

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SPRING BEANS

(70/R/BE/2)

Effects of aphids, Pastures 1970.

Design: 5 randomised blocks of 6 plots.

Area of each plot: 0.0161. Area harvested: 0.0096.

Treatments: Insecticides:

None	(O)
Treated with 17 oz of phorate in granules:	
At start of flowering	(GE)
At start and again at end of flowering	(GEL)
Sprayed with demeton-s-methyl at 3.5 oz in 50 gals:	
At start of flowering	(SE)
At end of flowering	(SL)
At start and again at end of flowering	(SEL)

NOTE: Treatments O and SL were artificially infested with black aphids (*Aphis fabae*).

Basal applications: 360 lb (0:14:28) applied by 'Tume' drill across the plots: Ground chalk at 3 tons. Weedkillers: Paraquat at 0.5 lb ion in 20 gals. Simazine at 1 lb in 20 gals.

Cultivations, etc.: Paraquat applied: 2 Oct, 1969. Chalked: 1 Nov. Ploughed: 2 - 10 Dec. Basal PK applied: 22 Mar, 1970. Seed drilled at 200 lb: 26 Mar. Simazine applied: 19 Apr. 'Metasystox' applied to SE and SEL plots: 15 June, SL and SEL plots: 16 July. Phorate applied GE and GEL plots: 16 June, GEL plots: 7 July. Combine harvested: 4 Sept. Variety: Maris Bead. Previous crops: Winter wheat 1968, barley 1969.

NOTE: Aphid counts and estimates of plant growth were made once a week throughout the growing season.

Standard error per plot.

Grain, cwt: 0.91 or 8.2% (20 d.f.)

70/R/BE/2

SUMMARY OF RESULTS

GRAIN: CWT

O	GE	GEL	SE	SL	SEL	Mean
(±0.41)						
8.6	12.8	11.8	11.8	11.0	11.1	11.2

Mean D.M. %: 79.7