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# Yields of the Field Experiments 1971

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## 71/R/BE/5 Effects of Aphids - Beans

### Rothamsted Research

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71/R/BE/5

SPRING BEANS

EFFECTS OF APHIDS

Object: To study the effects of applying liquid or granular insecticides at different times on yield of beans and aphid control - Long Hoos I and II.

Design: 5 randomised blocks of 6 plots.

Whole plot dimensions: 5.33 x 12.2. Area harvested: 0.00390.

Treatments: Insecticides:-

None	(O)
Treated with 1.19 kg of phorate in granules:-	
At start of flowering	(GE)
At end of flowering	(GL)
Sprayed with demeton-s-methyl at 2.45 g in 562 l:-	
At start of flowering	(SE)
At end of flowering	(SL)
At start and again at end of flowering	(SEL)

Basal applications: 7530 kg ground chalk. 405 kg (0:14:28) applied by 'Tume' drill across plots. Weedkiller: Simazine at 1.12 kg in 225 l.

Cultivations, etc.: Chalk applied: 7 Sept, 1970. Ploughed: 29 Sept. Basal PK applied: 24 Feb, 1971. Seed drilled at 224 kg: 27 Feb. Weedkiller applied: 12 Mar. Phorate applied: GE plots - 16 June, GL plots - 9 July. Demeton-s-methyl applied: SE and SEL plots - 30 June, SL and SEL plots - 17 July. Combine harvested: 7 Sept. Variety: Maris Bead. Previous crops: Winter wheat 1969, spring wheat 1970.

NOTE: Aphid counts and estimates of plant growth were made in the earlier part of the season but were discontinued after mid-July because *Aphis fabae* was not present on the experimental area.

Standard error per plot.

Grain, tonnes/hectare: 0.187 or 8.5% (20 d.f.)

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SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

O	GE	GEL	SE	SL	SEL	Mean
		(±0.084)				
2.15	2.42	1.94	2.16	2.30	2.26	2.20

Mean D.M. %: 84.6