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## Yields of the Field Experiments 1972

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### 72/R/BE/4 Spring Beans Effects of Aphids

#### Rothamsted Research

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72/R/BE/4

SPRING BEANS

EFFECTS OF APHIDS

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

Sponsors: R. Bardner, J.H. Stevenson, J.R. Moffatt.

Design: 5 randomised blocks of 6 plots.

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

Treatments: Insecticides (I):-

|                                              |       |
|----------------------------------------------|-------|
| None                                         | (O)   |
| Phorate granules at 1.12 kg:-                |       |
| At start of flowering                        | (GE)  |
| At end of flowering                          | (GL)  |
| Demeton-s-methyl spray at 0.25 kg in 440 l:- |       |
| At start of flowering                        | (SE)  |
| At end of flowering                          | (SL)  |
| At start and again at end of flowering       | (SEL) |

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.

Seed: Maris Bead, sown at 220 kg.

Cultivations, etc.: Chalked: 3 Sept, 1971. Paraquat applied: 30 Sept. FYM applied: 15 - 22 Nov. Ploughed: 24 Nov. Seed placement drilled: 24 Mar, 1972. Simazine applied: 2 May. Phorate applied: GE plots - 15 June, GL plots - 21 July. Demeton-s-methyl applied: SE and SEL plots - 26 June, SL and SEL plots - 20 July. Combine harvested: 26 Sept. Previous crops: Winter wheat 1970, barley 1971.

NOTE: Aphid counts were made throughout the season. Estimates of plant growth were made. Plant measurements were taken just before harvest.

Corrigendum to 71/R/BE/5: Under 'Treatments' - the amount of demeton-s-methyl sprayed on each occasion was 245 g in 562 l and not as shown.

Standard error per plot.

Grain, tonnes/hectare: 0.356 or 11.6% (20 d.f.)

72/R/BE/4

TABLES OF MEANS

GRAIN: TONNES/HECTARE

| I    |      |      |      |      |      |      |
|------|------|------|------|------|------|------|
| O    | SE   | SL   | SEL  | GE   | GL   | Mean |
| 3.16 | 3.11 | 2.97 | 3.15 | 3.19 | 2.90 | 3.08 |

STANDARD ERROR OF DIFFERENCES

I 0.225

Mean D.M. %: 82.1