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# Yields of the Field Experiments 1979

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## 79/R/BE/9 Control of Sitona - Beans

### Rothamsted Research

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79/R/BE/9

SPRING BEANS

CONTROL OF SITONA

Object: To study the effects of a range of insecticidal treatments on the incidence of Sitona larvae and on the yield of beans - Summerdells II.

Sponsors: R. Bardner, D.C. Griffiths, K.E. Fletcher.

Design: 4 blocks of 6 plots.

Whole plot dimensions: 5.33 x 9.14.

Treatments:

INSCTCDE Insecticides and methods of application:

NONE None

ALD SOIL Aldicarb at 10 kg worked into soil before sowing

CAR FURR Carbofuran at 2.24 kg applied in the seed furrow at sowing by combine drill

PHO SEED Phorate applied as a seed dressing at 3 g kg<sup>-1</sup> seed

PHO FURR Phorate at 2.24 kg applied in the seed furrow at sowing by combine drill

PER LEAF Permethrin foliar spray applied at 0.15 kg in 340 l on 18 May, 1979

Basal applications: Manures: Chalk at 7.5 t. FYM at 35 t. Weedkiller: Simazine at 0.84 kg in 220 l. Aphicide: Pirimicarb at 0.14 kg in 220 l.

Seed: Minden, sown at 220 kg.

Cultivations, etc.: Chalk applied: 26 Oct, 1978. FYM applied: 14 Nov. Ploughed: 23 Nov. Heavy spring-tine cultivated: 19 Apr, 1979. Rotary harrowed: 20 Apr. Seed sown: 21 Apr. Weedkiller applied: 15 May. Aphicide applied: 22 June. Combine harvested: 21 Sept. Previous cropping: Barley 1977 & 1978.

NOTE: Leaf notching by adult Sitona lineatus was assessed in June, July and August; soil cores were examined for larval populations in July. Incidence of Aphis fabae was assessed in June.

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

| INSCTCDE | NONE | ALD SOIL | CAR FURR | PHO SEED | PHO FURR | PER LEAF | MEAN |
|----------|------|----------|----------|----------|----------|----------|------|
|          | 4.16 | 4.89     | 4.61     | 4.16     | 4.40     | 4.44     | 4.44 |

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

| TABLE | INSCTCDE |
|-------|----------|
| SED   | 0.165    |

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

| STRATUM  | DF | SE    | CV% |
|----------|----|-------|-----|
| BLOCK.WP | 15 | 0.233 | 5.2 |

GRAIN MEAN DM% 80.3 PLOT AREA HARVESTED 0.00293