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# Yields of the Field Experiments 1980

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## 80/R/BE/2 Winter Beans Control of Sitona

### Rothamsted Research

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80/R/BE/2

WINTER BEANS

CONTROL OF SITONA

Object: To study the effects of two insecticides on the incidence of *Sitona lineatus* and on the yield of w. beans - Geescroft.

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

Design: 4 randomised blocks of 3 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

INSTCDE	Insecticides:
NONE	None
CARBOFUR	Carbofuran at 2.24 kg, as granules on 1 Apr, 1980
PERMETH	Permethrin at 0.15 kg, as a foliar spray in 340 l on 15 Apr

Basal applications: Weedkillers: Glyphosate at 1.5 kg in 220 l. Trietazine and simazine (as 'Remtal SC' at 2.8 l) in 220 l. Fungicides: Benomyl at 0.56 kg in 250 l.

Seed: Throws MS, sown at 250 kg.

Cultivations, etc.: - Glyphosate applied: 12 Sept, 1979. Ploughed: 26 Sept. Rotary harrowed: 4 Oct. Seed sown: 5 Oct. 'Remtal SC' applied: 6 Oct. Fungicide applied: 9 May, 1980. Combine harvested: 26 Aug. Previous crops: W. wheat 1978, s. barley 1979.

NOTE: Plant counts were made in January, and leaf notching by adult *Sitona* was assessed twice in May. Soil cores were examined for larval populations in June and August.

GRAIN TONNES/HECTARE

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

INSTCDE	NONE	CARBOFUR	PERMETH	MEAN
	4.72	4.93	4.79	4.81

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

TABLE	INSTCDE
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SED	0.110

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.156	3.2
GRAIN MEAN DM%	83.7	PLOT AREA HARVESTED	0.00293