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85/R/BE/3 Control of Sitona - W. Beans

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85/R/BE/3

WINTER BEANS

CONTROL OF SITONA

Object: To study the effects of six insecticides on the numbers of Sitona and on the yield of w. beans - Appletree.

Sponsors: R. Bardner, D.C. Griffiths.

Design: 4 randomised blocks of 8 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

INSCTCDE	Forms, rates and methods of applying insecticides:
NONE	None
CF 1 G	Carbofuran at 0.425 kg, as granules, applied on 19 April, 1985
CF 2 G	Carbofuran at 0.850 kg, as granules, applied on 19 April
CY DS	Cyfluthrin at 0.050 kg as a divided spray, half applied on 10 May, half on 22 May, in 200 l
PE DS	Permethrin at 0.050 kg as a divided spray, half applied on 30 April, half on 23 May, in 200 l
PE SS	Permethrin at 0.050 kg as a single spray applied on 10 May
PH 1 G	Phorate at 0.850 kg, as granules, applied on 19 April
PH 2 G	Phorate at 1.700 kg, as granules, applied on 19 April

Basal applications: Weedkillers: Simazine at 1.2 kg with propyzamide at 0.85 kg in 250 l. Fungicides: Chlorothalonil at 1.0 kg with benomyl at 0.50 kg and a wetting agent ('Agral' at 0.075 l) on three occasions in 240 l, 500 l and 200 l respectively.

Seed: Banner, dressed with carbendazim and thiram, sown at 150 kg.

Cultivations, etc.: - Heavy spring-tine cultivated: 5 Sept, 1984.
Ploughed: 14 Sept. Rotary harrowed: 19 Sept. Spring-tine cultivated, seed sown: 15 Oct. Weedkillers applied: 31 Oct.
Fungicides applied: 29 May, 1985, 11 June and 3 July.
Combine harvested: 24 Sept. Previous crops: S. wheat 1983, w. wheat 1984.

NOTE: Leaf damage by Sitona was assessed in May.

85/R/BE/3

GRAIN TONNES/HECTARE

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

INSCTCDE	
NONE	4.45
CF 1 G	4.61
CF 2 G	4.82
CY DS	4.40
PE DS	4.74
PE SS	4.45
PH 1 G	4.73
PH 2 G	4.58
MEAN	4.60

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

TABLE	INSCTCDE
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SED	0.192

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

STRATUM	DF	SE	CV%
BLOCK.WP	21	0.271	5.9

GRAIN MEAN DM% 79.1

PLOT AREA HARVESTED 0.00293