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

Rothamsted Research

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83/R/BE/3

WINTER BEANS

CONTROL OF SITONA

Object: To study the effects of four insecticides on the numbers of Sitona and on the yield of w. beans - Gt. Harpenden I.

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

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

IN SCTCDE	Forms, rates and methods of applying insecticides:
NONE	None
CF2 G S	Carbofuran at 2.2 kg, as granules, applied on 14 Apr, 1983
CS2 G S	Carbosulfan at 2.2 kg, as granules, applied on 14 Apr
PER S S	Permethrin at 0.15 kg, as a single spray, applied on 4 May
PER D S	Permethrin at 0.15 kg, as a divided spray, half applied on 4 May, half on 25 May
PH1 G S	Phorate at 1.7 kg, as granules, applied on 14 Apr
PH2 G S	Phorate at 2.2 kg, as granules, applied on 14 Apr

NOTE: Permethrin was applied in 450 l.

Basal applications: Weedkiller: Simazine at 1.2 l in 250 l. Fungicides: Benomyl at 0.55 kg in 250 l. Propiconazole at 0.12 kg in 250 l. Insecticide: Pirimicarb at 0.14 kg in 500 l.

Seed: Throws MS, sown at 280 kg.

Cultivations, etc.: - Ploughed: 10 Sept, 1982. Rotary harrowed, seed sown: 22 Sept. Weedkiller applied: 16 Oct. Benomyl applied: 26 May, 1983. Insecticide applied: 1 July. Propiconazole applied: 12 July. Combine harvested: 12 Aug. Previous crops: W. wheat 1981 and 1982.

NOTE: Leaf damage by Sitona and Apion was assessed in May. Soil animals were assessed from soil cores in June and from pitfall traps at weekly intervals. Numbers of Sitona larvae and pupae were estimated in July.

83/R/BE/3

GRAIN TONNES/HECTARE

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

INSCTCDE	
NONE	3.23
CF2 G S	3.67
CS2 G S	3.44
PER S S	3.72
PER D S	3.82
PH1 G S	3.69
PH2 G S	3.70
MEAN	3.61

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

TABLE	INSCTCDE
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SED	0.142

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

STRATUM	DF	SE	CV%
BLOCK.WP	18	0.201	5.6

GRAIN MEAN DM% 87.4

PLOT AREA HARVESTED 0.00293