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83/R/BE/10 Control of Sitona - S. Beans

Rothamsted Research

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83/R/BE/10

SPRING BEANS

CONTROL OF SITONA

Object: To study the effects of a range of insecticides on the numbers of Sitona and on the yield of s. beans - W. Barnfield II.

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

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

INSCODE	Forms, rates and methods of applying insecticides:
NONE	None
DI+CH CD	Disulfoton at 1.2 kg plus chlorpyrifos at 0.8 kg combine drilled
PHO 1 CD	Phorate at 1.7 kg combine drilled
PHO 2 CD	Phorate at 2.2 kg combine drilled
CA 1 GR	Carbosulfan at 1.7 kg as granules on 5 May, 1983
TR FS	Triazophos at 0.34 kg as a foliar spray in 450 l on 4 May

Basal applications: Manures: Chalk at 5.0 t. Weedkillers: Glyphosate at 1.4 kg in 250 l. Trietazine and simazine (as 'Aventox' at 2.4 l) in 250 l. Insecticide: Pirimicarb at 0.14 kg in 250 l.

Seed: Minden, sown at 280 kg.

Cultivations, etc.: Chalk applied: 16 Sept, 1982. Glyphosate applied: 19 Oct. Ploughed: 25 Nov. Spring-tine cultivated twice: 8 Mar, 1983. Seed sown: 10 Mar. 'Aventox' applied: 12 Mar. Pirimicarb applied: 16 June. Combine harvested: 12 Aug. Previous crops: S. barley 1981, w. wheat 1982.

NOTE: Leaf damage by Sitona was assessed in April; larval and pupal counts were made in July. Aphis fabae were assessed in June and yellowing in July. Soil cores were taken for chemical analyses in May.

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GRAIN TONNES/HECTARE

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

INSCDCDE	NONE	DI+CH CD	PHO 1 CD	PHO 2 CD	CA 1 GR	TR FS	MEAN
	3.26	3.33	3.58	3.59	3.53	3.41	3.45

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

TABLE	INSCDCDE
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SED	0.091

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.128	3.7

GRAIN MEAN DM% 86.1

PLOT AREA HARVESTED 0.00293