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

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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⁻¹ 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