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79/R/BE/11

SPRING BEANS

PYRETHROIDS AND SITONA

Object: To study the effects of four pyrethroid insecticides, applied as foliar sprays, on the incidence of Sitona and on the yield of spring beans - Summerdells II.

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

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 5.33 x 9.14.

Treatments:

PYRETH	Pyrethroids, applied in 340 l:
NONE	None
CYPERMET	Cypermethrin at 0.06 kg on 28 May, 1979
DECAMETH	Decamethrin at 0.03 kg on 28 May
FENVALER	Fenvalerate at 0.06 kg on 28 May
PERMETH	Permethrin at 0.15 kg on 18 May

Basal applications: Manures: Chalk at 7.5 t. FYM at 35 t. Weedkiller: Simazine at 0.84 kg in 220 l. Insecticide: 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. Basal insecticide applied: 22 June. Combine harvested: 21 Sept. Previous cropping: Spring wheat 1977, barley 1978.

NOTE: Leaf notching by adult Sitona lineatus was assessed in June and adults counted in August. Soil cores were examined for larval populations in July.

GRAIN TONNES/HECTARE

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

PYRETH	NONE	CYPERMET	DECAMETH	FENVALER	PERMETH	MEAN
	4.08	4.41	4.06	4.04	4.01	4.12

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

TABLE	PYRETH
SED	0.320

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.453	11.0

GRAIN MEAN DM% 80.5 PLOT AREA HARVESTED 0.00293