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78/R/BE/2 Winter Beans Control of Sitona - Beans

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78/R/BE/2

WINTER BEANS

CONTROL OF SITONA

Object: To study the effects of three chemicals on the control of Sitona larvae and on the yield of winter beans - Long Hoos I/II.

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

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

CHEMICAL	Chemicals and times of application:
NONE	None (duplicated)
ALDICARB	Aldicarb at 5 kg applied to the seedbed
FONOFOS	Fonofos at 5 kg applied to the seedbed
PERMETH	Permethrin at 0.15 kg applied as foliar spray in 340 l on 11 May, 1978

Basal applications: Manures: Chalk at 7.5 t. Fungicide: Benomyl at 0.56 kg in 220 l.

Seed: Throws MS, sown at 250 kg.

Cultivations, etc.: - Ploughed: 20 Sept, 1977. Chalk applied: 11 Oct. Heavy spring-tine cultivated: 12 Oct. Treatments applied, rotary harrowed in and seed sown: 16 Nov. Fungicide applied: 19 May, 1978. Combine harvested: 19 Sept. Previous crops: Wheat 1976, barley 1977.

NOTE: Sitona damage to leaves and stems was assessed in April and May. Incidence of Sitona larvae was assessed in June and July. Aldicarb residues in plants and soil were assessed in November and May.

78/R/BE/2

GRAIN TONNES/HECTARE

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

CHEMICAL	NONE	ALDICARB	FONOFOS	PERMETH	MEAN
	4.88	4.74	4.46	4.87	4.77

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

TABLE	CHEMICAL
SED	0.268 MIN REP 0.232 MAX-MIN

CHEMICAL
MAX-MIN NONE V ANY OF REMAINDER
MIN REP ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	13	0.379	8.0

GRAIN MEAN DM% 83.8

PLOT AREA HARVESTED 0.00279