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# Yields of the Field Experiments 1979

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## 79/R/BE/2 Control of Sitona - Beans

### Rothamsted Research

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79/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 - Fosters West.

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

Design: 4 randomised blocks of 6 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 on 5 Oct, 1978
FONOFOS	Fonofos at 5 kg applied to the seedbed
PERMETH	Permethrin applied as foliar spray in 340 l on 2 May, 1979 and 30 May
ALD+PER	Aldicarb to seedbed plus permethrin as foliar spray at above rates and times

NOTE: Permethrin was applied on the first occasion at 0.2 kg in 200 l and on the second occasion at 0.15 kg in 340 l.

Basal applications: Weedkillers: Simazine at 1.1 kg in 220 l. Aphicide: Pirimicarb at 0.14 kg in 220 l. Desiccant: Diquat at 0.59 kg ion with 'Agral' (a wetting agent) at 0.21 kg in 220 l.

Seed: Throws MS, sown at 250 kg.

Cultivations, etc.: - Ploughed: 24 Aug, 1978. Spring-tine cultivated twice: 2 Oct and 6 Oct. Rotary harrowed, seed sown, weedkiller applied: 9 Oct. Tractor-hoed: 11 June, 1979. Aphicide applied: 25 June. Desiccant applied: 4 Sept. Combine harvested: 7 Sept. Previous cropping: Wheat 1977, barley 1978.

NOTE: Incidence of ground beetles was assessed in April. Numbers of plants and stems per plant were counted. Leaf notching by adult Sitona lineatus was assessed several times during the season, and soil cores were examined for larval populations in June.

79/R/BE/2

GRAIN TONNES/HECTARE

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

CHEMICAL	NONE	ALDICARB	FONOFOS	PERMETH	ALD+PER	MEAN
	3.47	3.20	3.70	4.00	3.77	3.60

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

TABLE	CHEMICAL
SED	0.226 MIN REP 0.196 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	16	0.320	8.9

GRAIN MEAN DM% 83.6

PLOT AREA HARVESTED 0.00293