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# Yields of the Field Experiments 1982

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## 82/R/BE/18 Effects of Sitona - Spring Beans

### Rothamsted Research

Rothamsted Research (1983) *82/R/BE/18 Effects of Sitona - Spring Beans* ; Yields Of The Field Experiments 1982, pp 302 - 303 - DOI: <https://doi.org/10.23637/ERADOC-1-33>

82/R/BE/18

SPRING BEANS

EFFECTS OF SITONA

Object: To study the effects of Sitona applied at three different times on the yield of s. beans - Long Hoos III 5.

Sponsors: R. Bardner, K.E. Fletcher.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 1.90 x 1.83.

Treatments:

TREATMNT	Treatments, applied under insect-proof cages:
NONE	None
ALDICARB	Aldicarb worked into seedbed at 10 kg on 30 Mar, 1982, no Sitona added
SITONA E	Sitona added at crop emergence on 20 Apr
SITONA M	Sitona added at four-leaf stage on 16 May
SITONA L	Sitona added at start of flowering on 11 June

NOTE: Sitona were added at a rate of 860,000 per hectare.

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg. Weedkillers: Trietazine at 1.0 kg with simazine at 0.14 kg in 340 l.

Seed: Minden, sown at 270 kg.

Cultivations, etc.: - Muriate of potash applied: 11 Nov, 1981. Chalk applied: 30 Nov. Ploughed: 29 Jan, 1982. Spring-tine cultivated, power harrowed, seed sown: 30 Mar. Rolled: 12 Apr. Trietazine and simazine applied: 14 Apr. Hand harvested: 25 Aug. Previous crops: Potatoes 1980, mixed cereals 1981.

NOTE: Leaf notching by adult *Sitona lineatus* was assessed in May and June and soil cores were examined for larval populations in early July. Plants were sampled in late August for components of yield.

82/R/BE/18

GRAIN TONNES/HECTARE

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

TREATMNT	NONE	ALDICARB	SITONA E	SITONA M	SITONA L	MEAN
	2.90	2.91	2.75	2.77	2.80	2.82

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

TABLE	TREATMNT
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SED	0.118

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.167	5.9

GRAIN MEAN DM% 89.3

PLOT AREA HARVESTED 0.00042