

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

# Yields of the Field Experiments 1981

[Full Table of Content](#)



## 81/R/BE/9 Control of Sitona - S. Beans

### Rothamsted Research

Rothamsted Research (1982) *81/R/BE/9 Control of Sitona - S. Beans* ; Yields Of The Field Experiments 1981, pp 306 - 307 - DOI: <https://doi.org/10.23637/ERADOC-1-35>

81/R/BE/9

SPRING BEANS

CONTROL OF SITONA

Object: To study the effects of four insecticides on the incidence of Sitona and on the yield of s. beans - Whittlocks.

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

Design: 4 randomised blocks of 8 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

INSCTCDE	Forms, rates & methods of application of insecticides:
NONE	None (duplicated)
ALD 1 CD	Aldicarb at 2.24 kg, combine drilled
ALD 2 BC	Aldicarb at 10.0 kg, broadcast & worked in to seedbed
CAR CD	Carbofuran at 2.24 kg, combine drilled
PHO 1 CD	Phorate at 1.70 kg, combine drilled
PHO 2 CD	Phorate at 2.24 kg, combine drilled
PER FS	Permethrin at 0.15 kg, foliar spray in 340 l on 21 May

Basal applications: Manures: Chalk at 7.5 t. Weedkillers: Trietazine at 1.0 kg with simazine at 0.14 kg in 250 l. Fungicide: Benomyl at 0.56 kg in 250 l with the pirimicarb. Insecticide: Pirimicarb at 0.14 kg.

Seed: Minden, sown at 260 kg.

Cultivations, etc.: - Chalk applied: 2 Sept, 1980. Ploughed: 29 Dec. Spring-tine cultivated: 19 Feb, 1981. Rotary harrowed, seed sown: 6 Apr. Weedkillers applied: 9 Apr. Basal insecticide and fungicide applied: 18 June. Combine harvested: 9 Sept. Previous crops: W. wheat 1979, s. barley 1980.

NOTE: Leaf notching by adult Sitona lineatus was assessed in early June and soil cores were examined for larval populations in early July.

81/R/BE/9

GRAIN TONNES/HECTARE

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

INSCTCDE	
NONE	3.71
ALD 1 CD	4.03
ALD 2 BC	4.04
CAR CD	3.94
PHO 1 CD	4.02
PHO 2 CD	3.97
PER FS	3.83
MEAN	3.91

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

TABLE	INSCTCDE	
-----	-----	
SED	0.128	MIN REP
	0.111	MAX-MIN

	INSCTCDE
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	22	0.181	4.6
GRAIN MEAN DM%	85.9		
PLOT AREA HARVESTED	0.00439		