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82/R/BE/10 Control of *Sitona* and *Pratylenchus* - Spring Beans

Rothamsted Research

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82/R/BE/10

SPRING BEANS

CONTROL OF SITONA AND PRATYLENCHUS

Object: To study a range of materials and methods of application on the control of Sitona weevils and Pratylenchus nematodes and on the yield of s. beans - Delafield.

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

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

CHEMICAL	Chemicals, rates and methods of application:
NONE	None
AL BCE	Aldicarb, 10 kg, broadcast on 25 Mar, 1982 and worked into seedbed
CF 1 CD	Carbofuran, 1.7 kg, combine drilled
CF 2 CD	Carbofuran, 2.2 kg, combine drilled
CF 3 CD	Carbofuran, 3.2 kg, combine drilled
CF 2 BCL	Carbofuran, 2.2 kg, broadcast on foliage on 29 Apr
CS FS	Carbosulfan, 2.2 kg, foliar spray on 5 May
PH 1 CD	Phorate, 1.7 kg, combine drilled
PH 2 CD	Phorate, 2.2 kg, combine drilled
PH 3 CD	Phorate, 3.2 kg, combine drilled
PH 2 BCE	Phorate, 2.2 kg, broadcast on 25 Mar and worked into seedbed
PH 2 BCL	Phorate, 2.2 kg, broadcast on foliage on 29 Apr

Basal applications: Manures: Chalk at 5.0 t. Weedkillers: Trietazine at 1.0 kg with simazine at 0.14 kg in 250 l.

Seed: Minden, sown at 270 kg.

Cultivations, etc.: Chalk applied: 10 Nov, 1981. Ploughed: 19 Jan, 1982. Spring-tine cultivated twice: 23 Mar, 24 Mar. Seed sown: 26 Mar. Weedkillers applied: 27 Mar. Combine harvested: 2 Sept. Previous crops: S. wheat and s. barley 1980, s. barley 1981.

NOTE: Adult Sitona damage was assessed in late April and mid-May. Larvae were assessed in late June.

82/R/BE/10

GRAIN TONNES/HECTARE

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

CHEMICAL	
NONE	4.07
AL BCE	4.09
CF 1 CD	4.11
CF 2 CD	4.43
CF 3 CD	4.18
CF 2 BCL	4.17
CS FS	4.36
PH 1 CD	4.27
PH 2 CD	4.16
PH 3 CD	4.19
PH 2 BCE	4.18
PH 2 BCL	4.23
MEAN	4.20

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

TABLE	CHEMICAL
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SED	0.181

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

STRATUM	DF	SE	CV%
BLOCK.WP	33	0.256	6.1
GRAIN MEAN DM%	80.1		
PLOT AREA HARVESTED	0.00293		