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84/R/BE/3 Control of Sitona - W. Beans

Rothamsted Research

Rothamsted Research (1985) *84/R/BE/3 Control of Sitona - W. Beans ; Yields Of The Field Experiments 1984*, pp 285 - 286 - DOI: <https://doi.org/10.23637/ERADOC-1-32>

84/R/BE/3

WINTER BEANS

CONTROL OF SITONA

Object: To study the effects of six insecticides on the numbers of Sitona and on the yield of w. beans - Road Piece East.

Sponsors: R. Bardner, D.C. Griffiths.

Design: 4 randomised blocks of 9 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

INSCODE	Forms, rates and methods of applying insecticides:
NONE	None (duplicated)
CF 1 G	Carbofuran at 0.425 kg, as granules, applied on 13 April, 1984
CF 2 G	Carbofuran at 0.850 kg, as granules, applied on 13 April, 1984
CF 4 G	Carbofuran at 1.700 kg, as granules, applied on 13 April, 1984
CY DS	Cyfluthrin at 0.050 kg as a divided spray, half applied on 30 April, half on 23 May, in 200 l
PE DS	Permethrin at 0.050 kg as a divided spray, half applied on 30 April, half on 23 May, in 200 l
PH G	Phorate at 1.700 kg, as granules, applied on 13 April
TR SS	Triazophos at 0.353 kg, as a single spray applied on 30 April in 200 l

Basal applications: Weedkillers: Paraquat at 0.42 kg ion in 250 l. Propyzamide at 0.85 kg with simazine at 1.2 l in 250 l. Fungicides: Benomyl at 0.50 kg with chlorothalonil at 1.0 kg and 'Agral', a wetter, at 0.08 l on two occasions, the first in 250 l, the second in 200 l.

Seed: Banner, dressed thiram and carbendazim, sown at 220 kg.

Cultivations, etc.: Heavy spring-tine cultivated: 1 Sept, 1983. Chisel ploughed twice: 3 Sept. Paraquat applied: 20 Sept. Heavy spring-tine cultivated: 24 Sept. Seed sown: 29 Sept. Propyzamide and simazine applied: 30 Sept. Fungicides with wetter applied: 5 June, 26 June. Combine harvested: 30 Aug. Previous crops: W. wheat 1982, s. barley 1983.

NOTE: Leaf damage by Sitona was assessed in May, and larval and pupal counts were made in late June. Soil cores were taken at the end of June for assessment of soil animals.

84/R/BE/3

GRAIN TONNES/HECTARE

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

INSCTCDE	
NONE	4.88
CF 1 G	4.69
CF 2 G	4.81
CF 4 G	5.07
CY DS	4.63
PE DS	5.17
PH G	4.82
TR SS	4.67
MEAN	4.85

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

TABLE	INSCTCDE
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SED	0.197 MIN REP
	0.171 MAX-MIN

	INSCTCDE
MAX-MIN	NONE V ANY OF THE REMAINDER
MIN REP	ANY OF THE REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	25	0.279	5.7
GRAIN MEAN DM%	85.8		
PLOT AREA HARVESTED	0.00293		