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80/R/BE/7 Spring Beans Pyrethroids and Sitona

Rothamsted Research

Rothamsted Research (1981) *80/R/BE/7 Spring Beans Pyrethroids and Sitona* ; Yields Of The Field Experiments 1980, pp 287 - 287 - DOI: <https://doi.org/10.23637/ERADOC-1-31>

80/R/BE/7

SPRING BEANS

PYRETHROIDS AND SITONA

Object: To study the effects of four pyrethroid insecticides, applied as foliar sprays, on the incidence of Sitona and on the yield of s. beans - Gt. Knott II.

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

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 5.33 x 9.14.

Treatments:

PYRETH Pyrethroids, applied in 340 l on 15 Apr, 1980.

NONE None
CYPERMET Cypermethrin at 0.06 kg
DECAMETH Decamethrin at 0.03 kg
FENVALER Fenvalerate at 0.06 kg
PERMETH Permethrin at 0.15 kg

NOTE: Decamethrin has now been re-named deltamethrin.

Basal applications: Manures: Chalk at 7.5 t. Weedkillers: Trietazine with simazine (as 'Remtal SC' at 2.5 l) in 250 l.

Seed: Minden, sown at 180 kg.

Cultivations, etc.: - Chalk applied: 8 Oct, 1979. Ploughed: 29 Nov.
Spring-tine cultivated: 1 Mar, 1980 and 3 Mar. Seed sown: 3 Mar.
Weedkillers applied: 21 Mar. Combine harvested: 18 Sept. Previous crops: W. wheat 1978, s. barley 1979.

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

GRAIN TONNES/HECTARE

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

PYRETH	NONE	CYPERMET	DECAMETH	FENVALER	PERMETH	MEAN
	4.06	4.20	4.68	4.81	4.47	4.44

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

TABLE	PYRETH
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SED	0.173

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.244	5.5

GRAIN MEAN DM% 80.4 PLOT AREA HARVESTED 0.00293