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77/R/BE/8 Soil Insecticides and Sitona Control - Beans

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77/R/BE/8

SPRING BEANS

SOIL INSECTICIDES AND SITONA CONTROL

Object: To study the effects of a range of soil-applied insecticides on the control of Sitona larvae and on yield - Pastures.

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

Design: 4 randomised blocks of 16 plots.

Whole plot dimensions: 2.67 x 4.27.

Treatments:

INSECTCDE	Insecticides (kg):
NONE	None (2 plots per block)
CARBOP 1	Carbophenothion 2.24
CARBOP 2	Carbophenothion 4.48
CHLORM 2	Chlormephos 4.48
CHLORM 4	Chlormephos 8.96
DIAZIN 1	Diazinon 2.24
DIAZIN 2	Diazinon 4.48
FONOF 2	Fonofos 4.48
FONOF 4	Fonofos 8.96
HCH 1	HCH (BHC) 2.24
HCH 2	HCH (BHC) 4.48
METHIO 1	Methiocarb 2.24
METHIO 2	Methiocarb 4.48
TRIAZO 1	Triazophos 2.24
TRIAZO 2	Triazophos 4.48

NOTE: Treatments applied on 5 Apr, 1977.

Basal applications: Manures: FYM at 20 t. Chalk at 7.5 t. Weedkiller: Simazine at 0.8 kg in 340 l. Insecticide: Pirimicarb at 0.14 kg in 280 l.

Seed: Minden, sown at 220 kg.

Cultivations, etc.: - Chalk applied: 1 Sept, 1976. FYM applied: 16 Sept. Ploughed: 17 Sept. Heavy spring-tine cultivated: 7 Mar, 1977. Spike rotary cultivated: 5 Apr. Seed sown: 7 Apr. Weedkiller applied: 11 May. Insecticide applied: 19 July. Harvested by hand: 14 Sept. Previous crops: Wheat 1975, barley 1976.

NOTE: Germination counts were made. Leaves and leaf notches were counted during the season. Sitona larvae were counted twice.

77/R/BE/8

GRAIN TONNES/HECTARE

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

INSCTCDE	
NONE	3.30
CARBOP 1	3.28
CARBOP 2	3.49
CHLORM 2	3.07
CHLORM 4	3.44
DIAZIN 1	3.36
DIAZIN 2	3.28
FONOF 2	3.64
FONOF 4	3.35
HCH 1	3.51
HCH 2	3.20
METHIO 1	3.24
METHIO 2	3.42
TRIAZO 1	3.36
TRIAZO 2	3.31
MEAN	3.35

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

TABLE	INSCTCDE
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SED	0.227 MIN REP
	0.197 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	46	0.321	9.6
GRAIN MEAN DM%	80.4		
PLOT AREA HARVESTED	0.00059		