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80/R/BE/6 Spring Beans Control of Sitona

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80/R/BE/6

SPRING BEANS

CONTROL OF SITONA

Object: To study the effects of three insecticides 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 8 plots.

Whole plot dimensions: 5.33 x 9.14.

Treatments:

INSCODE	Forms, rates and methods of application of insecticides:
NONE	None (duplicated)
CAR 1 CD	Carbofuran at 1.70 kg, combine drilled
CAR 2 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 1 FS	Permethrin at 0.05 kg, foliar spray
PER 2 FS	Permethrin at 0.15 kg, foliar spray

NOTE: Permethrin was applied in 340 l on 15 Apr, 1980.

Basal applications: Manures: Chalk at 7.5 t. Weedkillers: Trietazine and 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: 4 Mar.
Weedkillers applied: 21 Mar. Combine harvested: 19 Sept. Previous crops: W. wheat 1978, s. barley 1979.

NOTES: (1) Leaf notching by adult Sitona was assessed twice in May; soil cores were examined for larval populations in June. In August soil cores were examined for root damage and a full growth analysis was made on ten plants per plot.
(2) Because of an error in applying treatments, four plots were treated as missing, one of each, CAR 1 CD, CAR 2 CD, PER 1 FS, PER 2 FS. Estimated values were used in the analysis.

80/R/BE/6

GRAIN TONNES/HECTARE

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

INSCDCDE	NONE	CAR 1	CD	CAR 2	CD	PHO 1	CD	PHO 2	CD	PER 1	FS	PER 2	FS	MEAN
	4.02		5.31		5.49		5.06		5.21		4.19		4.55	4.73

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

TABLE	INSCDCDE
SED	0.220 MIN REP 0.190 MAX-MIN

INSCDCDE
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	18	0.311	6.6

GRAIN MEAN DM% 79.8

PLOT AREA HARVESTED 0.00293