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Yields of the Field Experiments 1981

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81/R/BE/9 Control of Sitona - S. Beans

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81/R/BE/9

SPRING BEANS

CONTROL OF SITONA

Object: To study the effects of four insecticides on the incidence of Sitona and on the yield of s. beans - Whittlocks.

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

Design: 4 randomised blocks of 8 plots.

Whole plot dimensions: 5.33 x 13.7.

Treatments:

INSCCTDE	Forms, rates & methods of application of insecticides:
NONE	None (duplicated)
ALD 1 CD	Aldicarb at 2.24 kg, combine drilled
ALD 2 BC	Aldicarb at 10.0 kg, broadcast & worked in to seedbed
CAR 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 FS	Permethrin at 0.15 kg, foliar spray in 340 l on 21 May

Basal applications: Manures: Chalk at 7.5 t. Weedkillers: Trietazine at 1.0 kg with simazine at 0.14 kg in 250 l. Fungicide: Benomyl at 0.56 kg in 250 l with the pirimicarb. Insecticide: Pirimicarb at 0.14 kg.

Seed: Minden, sown at 260 kg.

Cultivations, etc.: - Chalk applied: 2 Sept, 1980. Ploughed: 29 Dec. Spring-tine cultivated: 19 Feb, 1981. Rotary harrowed, seed sown: 6 Apr. Weedkillers applied: 9 Apr. Basal insecticide and fungicide applied: 18 June. Combine harvested: 9 Sept. Previous crops: W. wheat 1979, s. barley 1980.

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

81/R/BE/9

GRAIN TONNES/HECTARE

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

INSCTCDE	
NONE	3.71
ALD 1 CD	4.03
ALD 2 BC	4.04
CAR CD	3.94
PHO 1 CD	4.02
PHO 2 CD	3.97
PER FS	3.83
MEAN	3.91

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

TABLE	INSCTCDE	
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SED	0.128	MIN REP
	0.111	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	22	0.181	4.6
GRAIN MEAN DM%	85.9		
PLOT AREA HARVESTED	0.00439		