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Yields of the Field Experiments 1981

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81/R/PE/2 Control of Sitona - Peas

Rothamsted Research

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81/R/PE/2

PEAS

CONTROL OF SITONA

Object: To study the effects of forms and methods of application of insecticides on the incidence of Sitona and on the yield of leafy peas - Pennells Piece.

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

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 4.27 x 8.23.

Treatments:

IN SCTCDE	Insecticides:
NONE	None (duplicated)
ALD BC E	Aldicarb at 10 kg, broadcast & worked in to seedbed
PHO BC E	Phorate at 2.2 kg, broadcast & worked in to seedbed
PHO BC L	Phorate at 2.2 kg, broadcast at two-leaf stage on 21 May, 1981
PHO CD	Phorate at 2.2 kg, combine drilled
PER FS	Permethrin at 0.15 kg, foliar spray in 340 l on 22 May

Basal applications: Manures: (0:14:28) at 380 kg. Weedkillers: Chlorthal-dimethyl (as 'Delozin S' at 6 kg) in 250 l.

Seed: Vedette, dressed with drazoxolon, sown at 190 kg.

Cultivations, etc.: - Ploughed: 2 Jan, 1981. Heavy spring-tine cultivated: 20 Feb. PK applied: 21 Feb. Aldicarb broadcast: 6 Apr. Phorate broadcast, rotary harrowed: 7 Apr. Seed sown: 8 Apr. Weedkiller applied: 9 Apr. Combine harvested: 15 Aug. Previous crops: S. barley 1979, s. wheat 1980.

NOTE: Leaf notching by adult *Sitona lineatus* was assessed in early June, and roots were examined for larvae in early July.

81/R/PE/2

GRAINS TONNES/HECTARE

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

INSC TCDE	NONE	ALD BC E	PHO BC E	PHO BC L	PHO CD	PER FS	MEAN
	4.08	4.04	3.85	4.03	4.09	4.03	4.03

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

TABLE	INSC TCDE
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SED	0.275 MIN REP 0.238 MAX-MIN

	INSC TCDE
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	19	0.388	9.6
GRAIN MEAN DM%	79.5		
PLOT AREA HARVESTED	0.00251		