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# Yields of the Field Experiments 1980

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## 80/R/PE/2 Peas Control of Sitona

### Rothamsted Research

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80/R/PE/2

PEAS

CONTROL OF SITONA

Object: To study the effects of rates and forms of insecticides on the incidence of Sitona and on the yield of leafy peas - Lt. Knott I.

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

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 5.69 x 8.23.

Treatments:

INSCTCDE	Insecticides:
NONE	None (duplicated)
ALD SOIL	Aldicarb at 10 kg worked into soil before sowing
PHO SOIL	Phorate at 2.24 kg worked into soil before sowing
PHO CD	Phorate at 2.24 kg combine drilled
PER1 FOL	Permethrin at 0.05 kg foliar spray
PER2 FOL	Permethrin at 0.15 kg foliar spray

NOTES: (1) Seedbed treatments were applied by hand on 5 Apr, 1980.

(2) Foliar sprays were applied in 340 l water on 7 May.

Basal applications: Manures: (0:14:28) at 380 kg. Weedkillers: Chlorthal-dimethyl (as 'Delozin S' at 6 kg) in 220 l. Desiccant: Diquat at 0.42 kg ion in 250 l.

Seed: Vedette, sown at 190 kg.

Cultivations, etc.: - Subsoiled, tines 160 cm apart and 38 cm deep: 2 Nov, 1979. Ploughed: 4 Dec. Spring-tine cultivated: 5 Mar, 1980. PK applied: 6 Mar. Spring-tine cultivated: 24 Mar. Rotary harrowed, seed sown: 5 Apr. Weedkiller applied: 17 Apr. Desiccant applied: 24 Aug. Combine harvested: 26 Aug. Previous crops: S. barley 1978 & 1979.

NOTE: Leaf notching by adult *Sitona lineatus* was assessed several times during the season. Soil cores were examined in June for larval populations and in August for root nodulation.

80/R/PE/2

GRAIN TONNES/HECTARE

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

INSCTCDE	NONE	ALD SOIL	PHO SOIL	PHO CD	PER1 FOL	PER2 FOL	MEAN
	1.30	1.87	1.47	1.83	1.47	1.81	1.58

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

TABLE	INSCTCDE
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SED	0.422 MIN REP 0.365 MAX-MIN

	INSCTCDE
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	19	0.597	37.8
GRAIN MEAN DM%	86.4		
PLOT AREA HARVESTED	0.00255		