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# Yields of the Field Experiments 1971

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## 71/W/BE/1 Control of Sitona - Beans

### Rothamsted Research

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71/W/BE/1

CONTROL OF SITONA

Object: To compare the effects of a range of insecticides on yield and incidence of Sitona on beans - Woburn Lansome II.

Design: 4 blocks of 10 plots.

Whole plot dimensions: 2.13 x 4.27. Area harvested: 0.00023.

Treatments:

Insecticides: None, no rotary cultivation	(OO)
None, rotary cultivation before sowing	(OR)
4.4 kg aldicarb, rotary cultivated in	(AL)
2.2 kg gamma BHC, rotary cultivated in	(B2)
4.4 kg gamma BHC, rotary cultivated in	(B4)
4.4 kg a.i. 'C 10015', rotary cultivated in	(CA)
4.4 kg a.i. 'C 18244', rotary cultivated in	(CB)
4.4 kg a.i. 'DP 1410', rotary cultivated in	(DP)
4.4 kg a.i. 'MC 2420', rotary cultivated in	(MC)
4.4 kg phorate, rotary cultivated in	(PH)

Basal applications: 448 kg (0:14:28). Weedkiller: Simazine at 0.84 kg in 371 l. Insecticide: Demeton-s-methyl at 246 ml in 416 l.

Cultivations, etc.: Ploughed: 4 - 7 Sept, 1970. Deep-tine cultivated: 21 Oct. Treatments applied, all plots rotary cultivated except (OO) plots, PK placed and seed drilled at 224 kg: 12 Mar, 1971. Weed-killer applied: 27 Mar. Insecticide applied: 30 June. Hand harvested: 27 Aug. Variety: Maris Bead. Previous crops: Barley 1969, beans 1970.

NOTES: (1) Soil samples were taken early and late in the season for counts of Sitona larvae.  
(2) Plant growth assessments were made throughout the growing season.

Standard error per plot.

Grain: tonnes/hectare: 0.411 or 20.5% (27 d.f.)

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SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

OO	OR	AL	B2	B4	CA	CB	DP	MC	PH	Mean
(±0.206)										
1.96	1.78	2.64	1.85	1.79	1.98	1.75	2.35	1.67	2.28	2.01

Mean D.M. %: 86.0