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71/R/BE/2 and 71/W/BE/2 Effects of Sitona on Yield - Beans

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71/R/BE/2 and 71/W/BE/2

SPRING BEANS

EFFECTS OF SITONA ON YIELD

Object: To study the effects of two rates of BHC on yield and control of *Sitona* larvae on beans - Rothamsted (R) Long Hoos VII and Woburn (W) Lansome II.

Design: 6 randomised blocks of 3 plots.

Whole plot dimensions: 5.33 x 9.14. Area harvested 0.00293.

Treatments: Insecticide: None, 2.2, and 4.4 kg BHC applied as a slurry and rotary cultivated in.

Basal applications:-

Long Hoos VII (R): 7530 kg ground chalk. 405 kg (0:14:28) placement drilled. Weedkiller: Simazine at 1.12 kg in 225 l. Insecticide: Demeton-s-methyl at 245 g in 438 l.

Lansome II (W): 448 kg (0:14:28) placement drilled. Weedkiller: Simazine at 0.84 kg in 371 l. Insecticide: Demeton-s-methyl at 245 g in 416 l.

Cultivations, etc.:

Long Hoos VII (R): Chalk applied: 21 Sept, 1970. Ploughed: 30 Oct. Treatment insecticide applied and rotary cultivated in, seed placement drilled at 224 kg: 1 Mar, 1971. Weedkiller applied: 11 Mar. Basal insecticide applied: 2 July. Combine harvested: 3 Sept. Variety: Maris Bead. Previous crops: Winter wheat 1969 and 1970.

Lansome II (W): Ploughed: 4 Sept, 1970. Deep-tine cultivated: 21 Oct. Treatment insecticide applied and rotary cultivated in: 12 Mar, 1971. Seed placement drilled at 224 kg: 13 Mar. Weedkiller applied: 27 Mar. Basal insecticide applied: 30 June. Combine harvested: 2 Sept. Variety: Maris Bead. Previous crops: Barley 1969 and 1970.

NOTE: Estimates of *Sitona* larvae on roots and in soil were made, also estimates of plant growth.

Standard errors per plot. Grain, tonnes/hectare:

Long Hoos VII (R): 0.131 or 4.9% (10 d.f.)

Lansome II (W): 0.224 or 11.0% (10 d.f.)

71/R/BE/2 and 71/W/BE/2

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

BHC: KG/HA			
0	2.2	4.4	Mean
LONG HOOS VII (R)			
	(± 0.053)		
2.59	2.74	2.71	2.68
LANSOME II (W)			
	(± 0.092)		
2.01	2.06	2.07	2.05

Mean D.M. %: Long Hoos VII (R): 80.4
 Lansome II (W): 80.3