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76/R/EE/6

SPRING BEANS

CONTROL OF SITONA LARVAE

Object: To study the effects of a range of insecticides on the control of Sitona larvae and on the yield of field beans - Little Hoos.

Sponsor: R. Bardner.

Design: 3 randomised blocks of 19 plots.

Whole plot dimensions: 2.13 X 4.27.

Treatments

INSCTCDE	Insecticides:
NONE	None (2 plots/block)
CHLORF 1	Chlorfenvinphos at 2.24 kg, as granules
CHLORF 2	Chlorfenvinphos at 4.48 kg, as granules
CHLORM 1	Chlormephos at 2.24 kg, as granules
CHLORM 2	Chlormephos at 4.48 kg, as granules
CHLORP 1	Chlorpyrifos at 2.24 kg, as wettable powder
CHLORP 2	Chlorpyrifos at 4.48 kg, as wettable powder
DIELDR 1	Dieldrin at 2.24 kg, as emulsifiable liquid (2 plots/block)
DIELDR 2	Dieldrin at 4.48 kg, as emulsifiable liquid (2 plots/block)
FENITROT	Fenitrothion at 0.75 kg, as spray, repeated four times
FONOF 1	Fonofos at 2.24 kg, as granules
FONOF 2	Fonofos at 4.48 kg, as granules
ISOFEN 1	Isofenphos at 2.24 kg, as granules
ISOFEN 2	Isofenphos at 4.48 kg, as granules
PERMET 1	Permethrin at 2.24 kg, as granules
PERMET 2	Permethrin at 4.48 kg, as granules

NOTE: Sprays applied in 10,000 l. Fenitrothion applied on 12, 28 Apr, 1976, 17 May, 7 June. All other treatments were applied on 4 Mar and rotated in.

Basal applications: Manures: Chalk at 7.5 t. FYM at 25 t. Weedkillers: Simazine at 1.1 kg in 220 l.

Seed: Minden, sown at 220 kg.

Cultivations, etc.: Chalk applied: 19 Sept, 1975. Heavy spring-tine cultivated: 14 Oct. FYM applied: 23 Oct. Ploughed: 28 Oct. Spring-tine cultivated: 27 Feb, 1976. Seed sown: 5 Mar. Weedkiller applied: 9 Mar. Harvested by hand: 21 July. Previous crops: Wheat 1974, barley 1975.

NOTE: Samples were taken to assess numbers of Sitona larvae per root and root nodule damage. Leaf notches per plant and plant height were assessed.