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71/R/BE/3 Control of Vectors and Viruses - Beans

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71/R/BE/3

SPRING BEANS

CONTROL OF VECTORS AND VIRUSES

Object: To study the effects of a range of insecticide treatments on yield and incidence of weevils, aphids and virus diseases of beans - Long Hoos VI.

Design: 4 randomised blocks of 6 plots.

Whole plot dimension: 10.7 x 12.2. Area harvested: 0.00293.

Treatments: Insecticides:

None	(0)
Applied to soil:-	
Aldicarb 1.12 kg	(AS1)
Aldicarb 11.2 kg	(AS2)
Foliar sprays on 3 occasions:-	
BHC 0.56 kg	(BF)
Malathion 1.12 kg	(MAF)
Menazon 0.28 kg	(MEF)

The first and second sprays were applied in 524 l, the third in 700 l.

Basal applications: 7530 kg ground chalk. 405 kg (0:14:28) placement drilled. Weedkiller: Simazine at 1.12 kg in 225 l.

Cultivations, etc.: Ground chalk applied: 21 Sept, 1970. Ploughed: 30 Oct. Aldicarb applied, all plots rotary cultivated, seed placement drilled at 224 kg: 1 Mar, 1971. Weedkiller applied: 11 Mar. Foliar sprays applied: 27 Apr, 18 May, 30 June. Combine harvested: 3 Sept. Variety: Maris Bead. Previous crops: Lucerne and Cocksfoot (fallowed after 1st cut) 1969, winter wheat 1970.

NOTE: Aphid and weevil counts were made and virus incidence assessed.

Standard error per plot.

Grain, tonnes/hectare: 0.232 or 7.6% (15 d.f.)

71/R/BE/3

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

O	AS1	AS2	BF	MAF	MEF	Mean
		(±0.116)				
2.84	3.04	3.30	2.96	3.14	3.12	3.07

Mean D.M. %: 80.7