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73/R/BE/6 - Aldicarb & Crop Health - Beans

Rothamsted Research

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73/R/BE/6

SPRING BEANS

ALDICARB AND CROP HEALTH

Object: To study the yield and incidence of viruses and stem eelworm in two varieties of field beans grown with and without aldicarb in 1972 and the effects of fresh treatment in 1973 - Great Knott II.

Sponsors: A.J. Cockbain, D.J. Hooper, J. McEwen.

Design: 3 randomised blocks of 4 plots, split into 2.

Whole plot dimensions: 6.40 x 19.2. Sub plot area harvested: 0.00293.

Treatments: All combinations of:-

Whole plots: 1. Varieties

VARIETY

Maris Bead
Minor

Bead
Minor

2. Aldicarb in 1972 (kg)

ALDICARB(72)

None
4.5

0.0
4.5

Sub plots: 3. Aldicarb in 1973 (kg)

ALDICARB(73)

None
5.0

0.0
5.0

Basal applications: Manures: Ground chalk at 7.5 tonnes. (0:20:20) at 1300 kg, Epsom salts at 900 kg - autumn 1972 to the area which did not receive this dressing in autumn 1971. (0:14:28) at 400 kg, placement drilled. Weedkiller: Simazine at 1.1 kg in 220 l. Insecticide: Demeton-s-methyl at 0.25 kg in 370 l.

Seed: Sown at 220 kg.

Cultivations, etc.: - Autumn PK applied: 21 Sept, 1972. Epsom salts applied: 22 Sept. Chalk applied: 25 Sept. Ploughed: 22 Nov. Aldicarb applied, rotary cultivated, seed sown: 13 Mar, 1973. Weedkiller applied: 16 Mar. Insecticide applied: 8 June. Combine harvested: 4 Sept. Previous crops: Winter wheat 1971, barley 1972.

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- NOTES: (1) Adult weevil damage was assessed on 4 May and populations on 14 June. Incidence of viruses was assessed on 25 May, 29 June and 24 July.
(2) Counts of stems showing symptoms of attack by stem eelworm were made in August on the variety Maris Bead.

Standard errors per plot. Grain, tonnes/hectare.

Whole plot: 0.338 or 9.3% (6 d.f.)

Sub plot: 0.737 or 20.2% (8 d.f.)

TABLES OF MEANS

GRAIN: TONNES/HECTARE

	ALDICARB(72)		ALDICARB(73)		Mean
	0.0	4.5	0.0	5.0	
VARIETY					
Bead	3.31	3.24	2.63	3.91	3.27
Minor	3.93	4.10	4.01	4.02	4.01
	ALDICARB(72)				
		0.0	3.34	3.90	3.62
		4.5	3.31	4.03	3.67
Mean			3.32	3.96	3.64

ALDICARB(72)	0.0	0.0	4.5	
ALDICARB(73)	0.0	5.0	0.0	5.0
VARIETY				
Bead	2.85	3.76	2.42	4.06
Minor	3.83	4.03	4.19	4.01

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STANDARD ERRORS OF DIFFERENCES

VARIETY	ALDICARB (72)	ALDICARB (73)	VARIETY ALDICARB (72)	VARIETY ALDICARB (73)	VARIETY ALDICARB (72)	VARIETY ALDICARB (73)
0.195	0.195	0.301	0.276	0.358	0.358	0.507
Except when comparing means with same level of						
VARIETY					0.425	
ALDICARB (72)						0.602
VARIETY.ALDICARB (72)						

Mean D.M. % 81.4