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76/R/CS/176

STEM-EELWORM CONTROL

Object: To study the effects of rates and times of applying aldicarb on control of stem-eelworm (*Ditylenchus dipsaci*) and on the yield of winter onions - Great Field II.

Sponsor: A.G. Whitehead.

The second year, winter onions.

For previous year see 75/R/ON/1.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 1.22 x 5.18.

Treatments: Aldicarb (kg) (cumulative to 1975 except as stated):-

ALDICARB

0	None (2 plots/block)
1+1	1 in seedbed, 1 in spring
2	2 in seedbed, none in spring
2+2	2 in seedbed, 2 in spring
4	4 in seedbed, none in spring
4+4	4 in seedbed, 4 in spring
8	8 in seedbed, none in spring
(4S)0	4 kg in seedbed (2 plots/block) in 1975 to spring onions, none to winter onions 1976

Basal applications: Manures: (13:13:20) at 1040 kg. 'Nitro-Chalk' at 450 kg in January, at 250 kg in March. Irrigation: 2.5 mm.

Seed: Imai Early Yellow, dressed with dieldrin, sown at 6.7 kg.

Cultivations, etc.: - Spring-tine cultivated, rotary cultivated, rolled: 3 Sept, 1975. NPK and aldicarb applied, seed sown: 4 Sept. Irrigation applied: 11 Sept. N applied: 13 Jan. Aldicarb and N applied: 2 Mar. Lifted: 15 July.

NOTES: (1) Plots were hand weeded.
(2) Soil samples were taken for counts of *Ditylenchus dipsaci*.
(3) Onions were stored until 22 September to determine loss of weight and percentage of bulbs rotting after harvest.