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71/W/CS/63 Nematodes and Verticillium - Potatoes

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71/W/CS/63

NEMATODES AND VERTICILLIUM

Object: To study the residual effects of methyl bromide, aldicarb and benomyl (applied to potatoes in 1970) on *Heterodera rostochiensis* and *Verticillium* on a second potato crop in 1971 - Woburn Broadmead I.

The second year, potatoes.

For previous year see 70/W/P/2(t).

Design: 4 blocks of 4 plots.

Whole plot dimensions: 2.84 x 13.4. Area harvested: 0.00147.

Treatments:

Fresh treatments were not applied in 1971.

Basal applications: 1530 kg (13:13:20). 897 kg Epsom salts. Weedkillers: Linuron at 1.12 kg in 281 l. Paraquat was applied at a concentration of 0.03 kg ion in 4.55 l to the inter-row area - rate per hectare not recorded. Fungicide with insecticide: Mancozeb at 1.34 kg with demeton-s-methyl at 246 ml in 416 l.

Cultivations, etc.: Deep-tine cultivated 1st stroke: 27 Oct, 1970, 2nd stroke: 30 Oct, 3rd stroke: 18 Dec. NPK and Mg applied, rotary cultivated, potatoes planted: 27 Apr, 1971. Linuron applied: 17 May. Paraquat applied to inter-row area: 7 - 8 June. Rotary ridged 1st stroke: 21 June, 2nd stroke: 25 June. Fungicide and insecticide applied: 29 June. Lifted: 13 Sept. Variety: Pentland Dell.

NOTE: Soil samples were taken before planting and after harvest for number of cysts, eggs and larvae of *Heterodera rostochiensis* and propagules of *Verticillium*.

Standard error per plot.

Total tubers, tonnes/hectare: 3.01 or 25.4% (9 d.f.)

71/W/CS/63

SUMMARY OF RESULTS

O	B	M	T	Mean
TOTAL TUBERS: TONNES/HECTARE				
(+1.51)				
3.5	18.4	15.2	10.3	11.9
% WARE: 4.44 CM (1.75 INCH) RIDDLE				
0.7	56.9	44.5	30.5	33.1