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72/W/CS/78 Nematodes and Verticillium - Potatoes

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72/W/CS/78

NEMATODES AND VERTICILLIUM

Object: To study the residual effects of methyl bromide, aldicarb and benomyl (applied to potatoes in 1971) on *Heterodera rostochiensis* and *Verticillium* on a second potato crop in 1972 - Woburn Broadmead I.

Sponsors: D.C.M. Corbett, G.A. Hide.

For first year see 71/W/CS/78(t).

The second year, potatoes.

Design: 4 blocks of 6 plots.

Whole plot dimensions: 2.84 x 12.8. Area harvested: 0.00147.

Treatments:

Residues of chemicals applied in 1971 (C): None (O), aldicarb at 6.7 kg (A), benomyl at 22.4 kg (B), aldicarb at 6.7 kg plus benomyl at 22.4 kg (A+B), dazomet at 336 kg (D), methyl bromide at 975 kg (M).

Basal applications: 1500 kg (13:13:20), 100 kg MgO as Epsom salts. Weedkiller: Chlorbromuron at 1.7 kg plus paraquat at 0.4 kg ion in 370 l. Fungicide: Mancozeb at 1.3 kg in 430 l. Fungicide with insecticide: Mancozeb at 1.3 kg plus demeton-s-methyl at 0.25 kg in 430 l.

Seed: Pentland Dell.

Cultivations, etc.: Deep-tine cultivated: 16 Sept, 1971. NPK applied: 24 Mar, 1972. Mg applied: 17 Apr. Rotary cultivated twice, potatoes planted: 20 Apr. Weedkiller applied: 8 May. Fungicide applied: 6 July. Fungicide with insecticide applied: 27 July. Haulm mechanically destroyed: 24 Aug. Lifted: 12 Sept.

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

Standard error per plot.

Total tuber, tonnes/hectare: 3.53 or 21.6 % (15 d.f.)

72/W/CS/78

TABLES OF MEANS

C

O	A	B	A+B	D	M	Mean
TOTAL TUBERS: TONNES/HECTARE						
4.7	20.9	20.9	25.5	9.9	16.1	16.3

STANDARD ERROR OF DIFFERENCES

C 2.49

% WARE: 4.44 CM (1.75 INCH) REDDLE

10.2	63.7	70.2	72.1	26.5	49.5	48.7
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