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71/W/CS/78

NEMATODES AND VERTICILLIUM

Object: To study the effects of methyl bromide, aldicarb, benomyl and dazomet on *Heterodera rostochiensis* and *Verticillium* on potatoes - Woburn Broadmead I.

The first year, potatoes.

Design: 4 blocks of 6 plots.

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

Treatments:

Chemicals: 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: 1534 kg (13:13:20), 605 kg Epsom salts. Weedkiller: Linuron at 1.12 kg in 281 l. Fungicide with insecticide: Mancozeb at 1.34 kg with demeton-s-methyl at 246 ml in 416 l. Fungicide: Mancozeb at 1.34 kg in 371 l.

Cultivations, etc.: Deep-tine cultivated 1st stroke: 27 Oct, 1970, 2nd stroke: 30 Oct, 3rd stroke: 18 Dec. Dazomet applied, all plots rotary cultivated: 23 Mar, 1971. Methyl bromide applied under gas tight sheets: 22 Apr. Gas tight sheets removed: 26 Apr. Aldicarb and benomyl applied, NPK and Mg applied, rotary cultivated, potatoes planted: 27 Apr. Weedkiller applied: 17 May. Rotary ridged: 21 June. Fungicide with insecticide applied: 29 June. Fungicide applied: 13 Aug. Lifted: 13 Sept. Variety: Pentland Dell. Previous crops: Barley 1969 and potatoes 1970.

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

Standard error per plot.

Total tubers, tonnes/hectare: 3.09 or 9.0% (15 d.f.)

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SUMMARY OF RESULTS

Q	A	B	A+B	D	M	Mean
TOTAL TUBERS: TONNES/HECTARE						
(±1.55)						
21.5	33.8	35.1	36.0	36.3	43.9	34.4
% WARE: 4.44 CM (1.75 INCH) RIDDLE						
65.8	78.8	82.5	81.1	77.6	82.4	78.0