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70/W/CS/56 Nematodes and Verticillium - Potatoes

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NEMATODES AND VERTICILLIUM

(70/W/CS/56)

Nematodes and verticillium - Woburn Broadmead I 1970, second year - potatoes.

Design: 4 randomised blocks of 6 plots.

Area of each plot: 0.0094. Area harvested: 0.0047.

Treatments:

Residues of chemicals and wheelmarks 1969: None (OO), methyl bromide at 870 lb, with wheelmarks on 3 occasions (MW), methyl bromide at 870 lb, without wheelmarks (MO), 'Temik' (aldicarb) at 60 lb a.i., without wheelmarks (TO), benomyl at 10 lb of 50% wettable powder per ton of seed, without wheelmarks (BO), wheelmarks on 3 occasions (OW).

Basal applications: 10 cwt (13:13:20), 4.5 cwt Epsom salts.

Weedkiller: Linuron at 1.5 lb plus paraquat at 0.37 lb ion in 33 gals, paraquat at 0.025 lb ion in 28 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on two occasions. Insecticide: Demeton-s-methyl at 3.5 fl oz in 37 gals on one occasion with mancozeb.

Cultivations: Rotary cultivated twice: 10 Sept, 1969, 10 Oct. Deep-tine cultivated: 2 Jan, 1970. NPK applied: 2 Apr. Mg applied: 8 Apr. Rotary cultivated, potatoes planted: 23 Apr. Linuron plus paraquat applied: 13 May. Paraquat applied between rows: 3 June. Grubbed, rotary ridged: 6 June. Fungicide with insecticide applied: 31 July. Fungicide applied: 18 Aug. Sprayed with undiluted BOV at 20 gals: 7 Sept. Lifted: 14 Sept. Variety: Pentland Crown.

NOTES: (1) For previous year's results see 'Results' 69/W/P/2.
(2) Soil samples were taken after lifting for *Heterodera rostochiensis* cyst counts.

Standard error per plot.

Total tubers, tons: 2.106 or 38.0% (15 d.f.)

70/W/CS/56

SUMMARY OF RESULTS

OO	MW	MO	TO	BO	OW	Mean
TOTAL TUBERS: TONS						
(+1.053)						
3.49	7.59	8.09	7.48	3.30	3.30	5.54
% WARE: 1.75 INCH						
72.2	90.2	91.1	88.6	69.5	64.9	79.4