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69/W/CS/33 - Rates of Nematicides Dosage - Potatoes

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RATES OF NEMATICIDES DOSAGE

(69/W/CS/33)

The effect of different rates of nematicides on a sequence of crops - Woburn Butt Close, 1969. First year, potatoes.

Design: 3 blocks of 14 plots. Plots will be split for residual and cumulative nematicides in 1970.

Area of each sub plot: 0.0032. Area harvested: 0.0016.

Treatments:

Nematicides: None (0), 780 lb methyl bromide (M) applied under a gas tight sheet, 80 (D1), 160 (D2), 320 lb (D3) DD injected at the base of ridges in spring, 400 lb (D4) DD injected by tines and rotary cultivated in autumn, 60 (T1), 120 (T2), 240 lb (T3) 'Telone' applied in spring as for DD, 220 lb (T4) 'Telone' applied in autumn as for DD, 100 (Z1), 200 (Z2), 300 lb (Z3) dazomet applied in rows in spring, 400 lb (Z4) dazomet applied broadcast in autumn.

Basal applications: 10 cwt (13:13:20). Weedkiller: Paraquat at 0.37 lb ion plus linuron at 0.5 lb. Fungicide: Mancozeb at 1.2 lb in 37 gals on three occasions. Insecticide: Demeton-s-methyl at 3.5 oz in 37 gals on one occasion with fungicide.

Cultivations, etc.: Deep-tine cultivated: 18 Oct, 1968. Rotary cultivated: 22 Oct. DD and 'Telone' applied, rotary cultivated once, dazomet applied, rotary cultivated twice: 25 Oct. Ploughed: 3 Feb, 1969. Dazomet applied, rotary cultivated: 6 Mar. Methyl bromide applied: 7 Mar. Gas tight sheet removed, basal NPK applied, rotary cultivated: 28 Mar. DD and 'Telone' applied: 1 Apr. Potatoes planted: 5 May. Weedkiller applied: 16 May. Fungicide applied: 18 July, 6 Aug, 26 Aug. Insecticide applied: 18 July. Sprayed with undiluted BOV at 16 gals: 25 Sept. Lifted: 6 Oct. Variety: Majestic. Previous crops: Barley 1967, potatoes 1968.

NOTE: Soil samples were taken before treatment applications, at planting and after harvest for larva invasion tests, and cyst counts.

Standard error per plot. Total tubers, tons:
Whole plot: 2.079 or 19.0% (25 d.f.)

SUMMARY OF RESULTS

POTATOES

	TOTAL TUBERS: TONS	% WARE
	(±1.200)	
O	5.37	73.0
M	16.21	85.7
D1	9.72	74.5
D2	8.61	73.2
D3	10.03	76.4
D4	9.40	74.7
T1	7.32	69.1
T2	7.22	73.3
T3	9.70	78.4
T4	7.64	69.1
Z1	12.20	86.0
Z2	14.10	87.7
Z3	18.15	87.9
Z4	17.43	87.6
Mean	10.94	78.3