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71/W/CS/79 Chemicals and Scab - Potatoes

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71/W/CS/79

CHEMICALS AND SCAB

Object: To study the effects of a range of fungicides on yield and common scab of potatoes - Woburn School Field.

The first year, potatoes.

Design: 5 blocks of 6 plots.

Whole plot dimensions: 2.84 x 6.10. Area harvested: 0.00214.

Treatments: Chemicals: None (O), captafol 39 kg (C1), captafol 78 kg (C2), 'MC 2810' 78 kg a.i. (MC), pentachloropyridine 78 kg (P), quintozene 78 kg (Q).

All treatments were applied to the soil and rotary cultivated in just before planting.

Basal applications: 377 kg (20:10:10), 969 kg (0:14:28), 538 kg 'Nitro-Chalk' 21. 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.: Sub-soiled, tines 142 cm apart 61 cm deep: 9 Sept, 1970. Rotary cultivated: 11 Sept. Deep-tine cultivated 1st stroke: 25-26 Sept, 2nd stroke: 1 Oct. NPK applied: 11 Mar, 1971. PK and N applied: 29 Mar. Treatments applied, rotary cultivated, potatoes planted: 21 Apr. Weedkiller applied: 11 May. Fungicide with insecticide applied: 30 June. Fungicide applied: 13 Aug. Haulm mechanically destroyed: 17 Sept. Sprayed with undiluted BOV at 225 l: 20 Sept. Lifted: 30 Sept. Variety: Maris Piper. Previous crops: Barley 1969 and 1970.

NOTE: Tuber samples were taken at harvest for scab assessments.

Standard error per plot.

Total tubers, tonnes/hectare: 6.52 or 15.8% (20 d.f.)

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SUMMARY OF RESULTS

O	C1	C2	MC	P	Q	Mean
TOTAL TUBERS: TONNES/HECTARE						
(±2.92)						
45.4	49.6	49.4	44.9	20.2	38.8	41.4
% WARE: 3.81 CM (1.5 INCH) RIDDLE						
95.9	97.1	97.2	98.2	79.7	96.1	94.0