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Yields of the Field Experiments 1972

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

Rothamsted Research

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72/W/CS/79

CHEMICALS AND SCAB

Object: To study the residual effects of a range of fungicides (applied to potatoes in 1971) on yield and common scab on a second crop of potatoes in 1972 - Woburn School Field.

Sponsor: A.H. McIntosh.

The second year, potatoes.

For previous year see 71/W/CS/79(t).

Design: 5 blocks of 6 plots.

Whole plot dimensions: 2.84 x 6.10. Area harvested: 0.00087.

Treatments: Residues of chemicals applied to potatoes 1971 (C):
None (O), captafol 39 kg (C1), captafol 78 kg (C2), 'MC 2810'
78 kg a.i. (MC), pentachloropyridine 78 kg (P), quintozone
78 kg (Q).

Basal applications: 1510 kg (13:13:20). Weedkiller: Linuron at 1.1 kg in 370 l. Fungicide: Mancozeb at 1.3 kg in 430 l. Fungicide with insecticide: Mancozeb at 1.3 kg with demeton-s-methyl at 0.25 kg in 430 l.

Variety: Maris Piper.

Cultivations, etc.: Ploughed: 24 Sept, 1971. Deep-tine cultivated: 15 Nov. NPK applied: 24 Mar, 1972. Rotary cultivated, potatoes planted: 21 Apr. Weedkiller applied: 11 May. Rotary ridged: 7 June. Fungicide applied: 6 July. Fungicide with insecticide applied: 28 July. Haulm mechanically destroyed: 14 Sept. Sprayed with undiluted BOV at 200 l: 22 Sept. Lifted: 2 Oct.

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

Standard error per plot.

Total tubers, tonnes/hectare: 6.44 or 14.4% (20 d.f.)

ERRATUM to 71/W/CS/79 p. 231

Area harvested should read: 0.00087.

72/W/CS/79

TABLES OF MEANS

C

O	C1	C2	MC	P	Q	Mean
TOTAL TUBERS: TONNES/HECTARE						
48.2	50.0	46.2	50.4	31.6	41.5	44.7

STANDARD ERROR OF DIFFERENCES

C 4.07

PERCENTAGE WARE: 3.81 CM (1.5 INCH) RIDDLE

96.6	96.2	95.8	96.9	96.8	95.2	96.2
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