

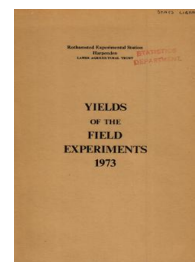
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73/W/P/4 - Soil Fungicides & Scab Control - Potatoes

Rothamsted Research

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73/W/P/4

POTATOES

SOIL FUNGICIDES AND SCAB CONTROL

Object: To study the effects of a range of fungicides on yield and common scab of potatoes - Woburn Great Hill Bottom I.

Sponsor: A.H. McIntosh.

Design: 4 blocks of 5 plots.

Whole plot dimensions: 2.85 x 6.10. Area harvested: 0.00087.

Treatments: Fungicides (applied to soil at 78 kg):	FUNGICIDE
None	O
Catechol	CA
Chlorohydroquinone	CH
Hydroquinone	HY
Quintozene	QU

Basal applications: (13:13:20) at 1830 kg. Weedkiller: Linuron at 1.8 kg plus paraquat at 0.42 kg ion in 280 l. Fungicide with insecticide: Mancozeb at 1.3 kg plus demeton-s-methyl at 0.25 kg in 390 l. Fungicide: Mancozeb at 1.3 kg in 390 l on the first occasion and 370 l on the second occasion.

Variety: Maris Piper.

Cultivations, etc.: - Deep-tine cultivated twice: 9 Oct, 1972, 16 Oct. NPK applied: 27 Mar, 1973. Treatment fungicide applied, all plots rotary cultivated, potatoes planted: 10 Apr. Weedkiller applied: 14 May. Fungicide with insecticide applied: 5 July. Fungicide applied: 26 July, 13 Aug. Haulm mechanically destroyed: 12 Sept. Lifted: 14 Sept. Previous crops: Barley 1971, beans 1972.

NOTE: Tuber samples were taken at harvest for assessment of scab.

Standard error per plot.

Total tubers, tonnes/hectare: 3.83 or 8.5% (12 d.f.)

73/W/P/4

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TABLES OF MEANS

FUNGICIDE					Mean
O	CA	CH	HY	QU	
TOTAL TUBERS: TONNES/HECTARE					
45.4	44.4	44.2	41.8	49.6	45.1

STANDARD ERROR OF DIFFERENCES

FUNGICIDE

2.71

PERCENTAGE WARE 3.81 CM (1.5 INCH) RIDDLE

95.9	95.5	95.2	94.9	96.1	95.5
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