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74/W/P/4 Soil Fungicides and Scab - Potatoes

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74/W/P/4

POTATOES

SOIL FUNGICIDES AND SCAB

Object: To compare the effects of 4-tertiary butylcatechol with the standard, quintozene, on yield and common scab of potatoes - Woburn Great Hill Bottom I.

Sponsor: A.H. McIntosh.

Design: 4 randomised blocks of 5 plots.

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

Treatments: Fungicides, applied to soil and rotary cultivated in just before planting:-

	FUNGICIDE
None	None
Quintozene as a dust at 78 kg	Qui D 78
4-tertiary butylcatechol applied:-	
As a spray, in 1400 l, at 39 kg	TBC S 39
As a spray, in 1400 l, at 78 kg	TBC S 78
As a dust at 78 kg.	TBC D 78

Basal applications: Manures: (13:13:20) at 1940 kg. Weedkiller: Linuron at 1.2 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 450 l. Fungicide: Mancozeb at 1.3 kg in 450 l.

Variety: Maris Piper.

Cultivations, etc.:- Ploughed: 11-13 Dec, 1973. NPK applied: 8 Apr, 1974. Spring-tine cultivated: 9 Apr. Treatments applied, rotary cultivated, potatoes planted: 17 Apr. Weedkiller applied: 17 May. Fungicide with insecticide applied: 12 July. Fungicide applied: 6 Aug. Haulm mechanically destroyed: 10 Sept. Sprayed with undiluted BOV at 170 l: 18 Sept. Lifted: 1 Oct. Previous crops: Spring beans 1972, winter wheat 1973.

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

Standard error per plot.

Total tubers: tonnes/hectare: 6.42 or 15.2% (12 d.f.)

7⁴/W/P/4

TABLES OF MEANS

FUNGICIDE					
None	Qui D 78	TBC S 39	TBC S 78	TBC D 78	Mean
TOTAL TUBERS: TONNES/HECTARE					
43.6	47.3	41.0	41.2	37.4	42.1
STANDARD ERROR OF DIFFERENCES					
FUNGICIDE					
4.54					
PERCENTAGE WARE: 3.81 CM (1.5 INCH) RIDDLE					
95.0	96.7	94.3	95.1	95.1	95.2