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Yields of the Field Experiments 1973

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

Rothamsted Research

Rothamsted Research (1974) 73/W/P/4 - *Soil Fungicides & Scab Control - Potatoes* ; Yields Of The Field Experiments 1973, pp 392 - 393 - DOI: <https://doi.org/10.23637/ERADOC-1-98>

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

2

TABLES OF MEANS

| FUNGICIDE | | | | | |
|------------------------------|------|------|------|------|------|
| O | CA | CH | HY | QU | Mean |
| 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 |
|------|------|------|------|------|------|