

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1972

[Full Table of Content](#)



72/W/P/3 Potatoes Sprays and Scab Control

Rothamsted Research

Rothamsted Research (1973) *72/W/P/3 Potatoes Sprays and Scab Control* ; Yields Of The Field Experiments 1972, pp 353 - 354 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/W/P/3

SPRAYS AND SCAB CONTROL

Object: To study the effects of different formulations of ethionine sprays on yield and common scab of potatoes - Woburn School Field and Gt Hill Bottom I.

Sponsor: A.H. McIntosh.

Design: 3 blocks of 4 plots.

Whole plot dimensions: 2.85 x 3.25. Area harvested: 0.00023.

Treatments (T):

1. None (0).
2. Ethionine, 2.9 kg (E).
3. Ethionine, 2.9 kg + dimethyl sulphoxide, 7.3 kg (E+D).
4. Ethionine, 2.9 kg + 'Manoxol-OT', 6.29 kg (E+W).

NOTE: Treatments were applied as sprays in 1460 l on three occasions.

Basal applications: 1500 kg (13:13:20). Weedkiller: Linuron at 1.1 kg in 370 l. Fungicide with insecticide: Mancozeb at 1.3 kg with demeton-s-methyl at 0.24 kg in 430 l. Fungicide: Mancozeb at 1.3 kg in 430 l.

Variety: Maris Piper.

Cultivations, etc.:

School Field: Ploughed: 23 Sept, 1971. Deep-tine cultivated: 10 Nov. NPK applied: 24 Mar, 1972. Rotary cultivated, potatoes planted: 21 Apr. Weedkiller applied: 11 May. Treatments applied: 13 June, 16 June, 20 June. Fungicide applied: 6 July. Fungicide with insecticide applied: 28 July. Lifted: 11 Sept. Previous crops: Barley 1970, potatoes 1971.

Gt Hill Bottom I: Ploughed: 5 Nov, 1971. NPK applied: 29 Mar, 1972. Rotary cultivated, potatoes planted: 20 Apr. Weedkiller applied: 11 May. Treatments applied: 13 June, 16 June, 20 June. Fungicide applied: 5 July. Fungicide with insecticide applied: 28 July. Lifted: 11 Sept. Previous crops: Potatoes 1970, barley 1971.

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

Standard errors per plot. Total tubers, tonnes/hectare:

School Field: 7.61 or 18.8% (6 d.f.)
Gt Hill Bottom I: 5.96 or 18.1% (6 d.f.)

72/W/P/3

TABLES OF MEANS

TOTAL TUBERS: TONNES/HECTARE

| T | | | | |
|--------------|------|------|------|------|
| 0 | E | E+D | E+W | Mean |
| SCHOOL FIELD | | | | |
| 41.7 | 41.8 | 41.1 | 37.6 | 40.5 |

STANDARD ERROR OF DIFFERENCES

T 6.22

GT HILL BOTTOM I

| | | | | |
|------|------|------|------|------|
| 28.8 | 35.2 | 34.0 | 33.3 | 32.8 |
|------|------|------|------|------|

STANDARD ERROR OF DIFFERENCES

T 4.86