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

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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				
O	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
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STANDARD ERROR OF DIFFERENCES

T 4.86