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64/W/WP401/DD/4 Potatoes - Control of Tuber Blight

Rothamsted Research

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64/Dd/4.1

POTATOES

(WP 101)

Control of tuber blight (*Phytophthora infestans*) by fungicide sprays and haulm destruction - Woburn Horsepool 1964.

Design: 6 x 6 Latin square.

Area of each plot: 0.0360. Area harvested: 0.0141.

Treatments: No fungicide, not burnt off (0)

Fungicide sprays*: 3 times early (E)
4 times early (E+)
3 times late (L).

Haulm burnt off with diquat** on sprayed plots. In addition two plots per row (one control and one E+ plot on which the haulm was not burnt off) were used for sampling only.

* 1.5 lb fungicide, containing 80% mancozeb, in 50 gals.

** Reglone at 4 pints in 40 gals.

Basal dressing: 7 cwt 17:11:22.

Cultivations, etc.: Chisel ploughed: Dec 7, 1963. Ploughed: Jan 3 - 10, 1964. Basal dressing applied: Apr 14. Rotary cultivated twice: Apr 23 and 27. Potatoes machine planted: Apr 27. Earthed up: June 12. First spraying with mancozeb (E and E+ plots): June 24, second (E, E+ and L): July 14, third (E, E+ and L): July 28, final (E+ and L): Aug 10. Appropriate plots sprayed with diquat: Sept 21. Lifted: Sept 30. Variety: King Edward. Previous crops: Grass 1962, winter wheat 1963.

NOTE: Periodic samples were taken from the sample plots for weight of tubers and blight assessment in tubers.

Standard error per plot.

Total tubers: 0.681 or 6.5% (15 d.f.)

64/Da/4.2

SUMMARY OF RESULTS

0	E	E+	L	Mean
TOTAL TUBERS				
		(±0.278)		
10.30	10.21	10.52	10.66	10.42
% WARE				
94.1	94.5	93.4	93.6	93.9

* 1/2 lb tubers containing 500 spores in 10 gals.
 ** regions at 1 gals in 10 gals.
 basal dressing 7 lbs 1000.
 Observations, etc.: Initial treatment Dec 7, 1957, ploughed;
 Jan 3 - 10, 1958, basal dressing applied; Apr 10, 1958,
 cultivated twice; Apr 27 and 31, 1958, machine ploughed;
 Apr 27, 1958, basal dressing applied; May 12, 1958, machine
 (E and E+ plots); June 24, 1958, (E, E+ and L); July 14, 1958,
 (E, E+ and L); July 22, 1958, (E+ and L); Aug 10, 1958,
 plots sprayed with Diquat; Sept 27, 1958, (E, E+ and L);
 King Edward, previous crop: wheat 1957, winter wheat 1957.
 BUTER: periodic samples were taken from the sample plots for weight
 of roots and slight assessment in tubers.
 Standard error per plot.
 Total tuber 0.081 or 0.5% (12 d.f.).