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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 tubers in 30 gals.
 ** regions at 4 gals in 30 gals.
 basal dressing 7 lbs 4 1/2 gal.
 Cultivation, etc.: Onset of growth in 1952, ploughed;
 Jan 3 - 10, 1954, basal dressing applied; Apr 10,
 cultivated twice; Apr 27 and 31. Potatoes planted
 Apr 27, - 1st and 2nd 10, 3rd 15, 4th 20, 5th 25,
 (E and E+ plots) June 24, second (E, E+ and L); July 14, third
 (E, E+ and L); July 22, final (E+ and L); Aug 10, appropriate
 plots sprayed with Dieldrin 30, 30, 30, 30, 30, 30, 30,
 King Edward. Previous crop: Grass 1952, winter wheat 1953.
 BUT: Periodic samples were taken from the sample plots for weight
 of roots and slight assessment in tubers.
 Standard error per plot.
 Total error 0.081 or 0.5% (12 d.f.).