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

Rothamsted Research

Rothamsted Research (1965) *64/W/WP401/DD/4 Potatoes - Control of Tuber Blight ; Yields Of The Field Experiments 1964*, pp 233 - 234 - DOI: <https://doi.org/10.23637/ERADOC-1-160>

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

O	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