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Yields of the Field Experiments 1959

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59/R/CF/3 Potatoes - Control of Blight (Copper and Zinc Sprays)

Rothamsted Research

Rothamsted Research (1960) *59/R/CF/3 Potatoes - Control of Blight (Copper and Zinc Sprays)* ;
Yields Of The Field Experiments 1959, pp 96 - 96 - DOI: <https://doi.org/10.23637/ERADOC-1-179>

59/Cf/4

POTATOES

The control of blight (Phytophthora infestans) by copper and tin fungicides - Great Field II 1959.

Design: 3 randomized blocks of 5 plots each.

Area of each plot: 0.0096 acres. Area harvested: 0.0013 acres.

Treatments.

Unsprayed (0).

Sprayed twice with white oil formulation of copper oxychloride at 120 fluid oz in 60 gallons per acre (1).

Sprayed twice with 0.1% (2); 0.3% (3); 0.6% (4) triphenyltin acetate at 60 gallons per acre.

Basal dressing: 10 cwt compound fertilizer (10% N, 10% P₂O₅, 18% K₂O) per acre.

Cultivations, etc.: Ploughed twice: Oct 27, 1958 and Feb 20, 1959.

Basal fertilizer applied: Mar 31. Ridged, potatoes machine planted: Apr 1. Earthed up: June 18. Fungicide treatments applied twice: Aug 11 and Sept 2. Sprayed with sulphuric acid, 15% BOV, 100 gallons per acre: Sept 30. Lifted: Oct 13.

Variety: Ulster Supreme. Previous crop: Barley.

Standard error per plot.

Total tubers: 1.940 tons per acre or 20.2% (8 d.f.)

Note: Commencing in August estimates were made at 10 day intervals of incidence of blight and of defoliation.

Summary of Results

0	1	Spray 2	3	4	Mean
<u>Total tubers: tons per acre</u>					
9.58	8.10	9.87 (±1.120)	10.30	10.21	9.64
<u>Percentage ware (1½" riddle)</u>					
83.3	87.5	83.2	89.2	91.6	87.0