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## Yields of the Field Experiments 1957

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### 57/R/CF/2 Potatoes - Control of Blight (Copper Spray)

#### Rothamsted Research

Rothamsted Research (1958) *57/R/CF/2 Potatoes - Control of Blight (Copper Spray)* ; Yields Of The Field Experiments 1957, pp 96 - 96 - DOI: <https://doi.org/10.23637/ERADOC-1-177>

57/Cf/2.1

## POTATOES

The control of blight (Phytophthora infestans) by copper fungicide spray - Highfield IV 1957.

Design: 8 randomized blocks of 2 plots each.

Area of each plot: 0.1273 acres. Area harvested: Whole plots - 0.0141 acres; sub plots - 0.0071 acres.

### Treatments.

Whole plots: No spray; copper fungicide sprayed twice.

Sub plots: On sprayed plots only, 2 rows damaged by 2 passages of the tractor during copper spray operations were compared with 2 undamaged rows.

Basal dressing: 15 cwt compound fertilizer (9% N, 9% P<sub>2</sub>O<sub>5</sub>, 15% K<sub>2</sub>O) per acre.

Cultivations, etc.: Ploughed twice: Nov 22, 1956 and Feb 22 - Mar 1, 1957. Basal fertilizer applied on flat: Apr 24. Potatoes machine planted: Apr 25 - 26. Earthed up: July 9. Fungicide treatment, 5 lb in 40 gallons per acre, applied twice: July 31 and Aug 21. Sprayed with sulphuric acid, 20% BOV, 100 gallons per acre: Oct 3. Lifted: Oct 14 - 15. Variety: Majestic. Previous crop: Wheat.

Standard errors per plot. Total tubers:

Whole plots: 1.72 tons per acre or 11.8% (7 d.f.)

Sub plots (sprayed plots only): 1.14 tons per acre or 7.6% (7 d.f.)

Note: Estimates were made of the rate of bulking, destruction of foliage by blight, amount of blight on the tubers. 2 rows of King Edward were planted on each plot for an assessment of blight infected tubers.