

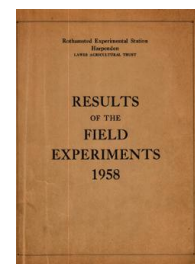
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1958

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1959) *58/R/CF/2 Potatoes - Control of Blight (Copper Spray)* ; Yields Of The Field Experiments 1958, pp 110 - 111 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

58/Cf/2.1

POTATOES

The control of blight (Phytophthora infestans) by copper fungicide spray - Great Knott II 1958.

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

Cultivations, etc.: Ploughed: Oct 2 - 19, 1957. Sprayed with TCA at 20 lb in 80 gallons per acre: Jan 14, 1958. Basal fertilizer applied: Apr 21. Potatoes machine planted: Apr 23. Earthed up: July 4. Fungicide treatment, 5 lb in 40 gallons per acre, applied twice: July 16 and Aug 11. Sprayed with sulphuric acid, 20% BOV, 100 gallons per acre: Sept 17. Lifted: Oct 24. Variety: Majestic. Previous crop: Spring wheat.

Standard errors per plot. Total tubers:

Whole plots: 0.693 tons per acre or 6.0% (7 d.f.)

Sub plots (sprayed plots only): 0.611 tons per acre or 5.1% (7 d.f.)

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

58/Cf/2.2

Summary of Results

None	Spray Copper fungicide	Mean	Difference
Total tubers: tons per acre			
11.04	12.08	11.56	+1.04 (± 0.347)
Percentage ware ($1\frac{1}{2}$ " riddle)			
91.2	91.8	91.5	+0.6

Sprayed plots only

Undamaged	Damaged	Difference
Total tubers: tons per acre		
12.23	11.93	-0.30 (± 0.305)
Percentage ware ($1\frac{1}{2}$ " riddle)		
92.2	91.5	-0.7