

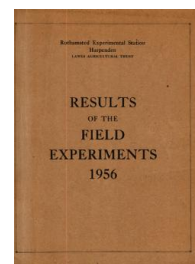
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1956

[Full Table of Content](#)



56/R/CE/3 Potatoes - Control of Blight (Copper and Sulphuric Spray)

Rothamsted Research

Rothamsted Research (1957) *56/R/CE/3 Potatoes - Control of Blight (Copper and Sulphuric Spray)* ;
Yields Of The Field Experiments 1956, pp 93 - 94 - DOI: <https://doi.org/10.23637/ERADOC-1-176>

56/Oe/3.1

POTATOES

The control of blight by copper and sulphuric sprays - Great Knott III. 1956.

Design: 4 × 4 Latin square, plots being split into 2 for determination of the effect of tractor damage.

Area of each sub plot: 0.0140 acres.

Treatments:

Whole Plots: No spray; copper fungicide sprayed twice; sulphuric acid, sprayed to destroy haulm; copper fungicide and sulphuric acid sprayed as above. The tractor used for spraying was driven over all the plots on each occasion.

Sub plots: 4 rows damaged by two passages of the tractor during copper spray operations were compared with 4 undamaged rows.

Basal dressing per acre: 8 tons dung; 10½ cwt compound granular fertilizer (9% N, 9% P₂O₅, 15% K₂O).

Cultivations, etc.: Dung applied, ploughed in: Sept 28, 1955. Basal fertilizer applied on flat: Apr 4, 1956. Potatoes machine planted: Apr 5 - 6. Earthed up: June 25. Fungicide treatment 3 lb in 80 gallons per acre applied: Aug 15 and again at 5 lb in 90 gallons per acre: Aug 25. Sprayed with sulphuric acid 20% B.O.V., 80 gallons per acre: Sept 17. Lifted: Oct 22. Previous crop: Wheat.

Standard errors per plot: Total tubers.

Whole plot: 0.938 tons per acre or 6.0% (6 d.f.)

Sub plot: 0.801 tons per acre or 5.1% (12 d.f.)

Note: Estimates were made of the rate of bulking, destruction of foliage by blight, amount of blight on the tubers.

56/Ce/3.2

Summary of Results

	Spray				Mean
	None	Copper fungicide	Sulphuric acid	Copper fungicide and sulphuric acid	
Total tubers: tons per acre					
(±0.548)*					
Undamaged rows	14.65	18.26	14.73	16.79	16.11
Damaged rows	14.10	16.12	14.46	16.57	15.31
Mean (±0.469)	14.38	17.19	14.60	16.68	15.71
Difference (±0.566)	-0.55	-2.14	-0.27	-0.22	-0.80 (±0.283)
Percentage ware (1½" riddle)					
Undamaged rows	87.5	85.9	87.2	88.6	87.3
Damaged rows	85.6	86.0	84.6	88.8	86.2
Mean	86.6	85.9	85.9	88.7	86.8
Difference	-1.9	+0.1	-2.6	+0.2	-1.1

*For use in comparisons other than vertical.