

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 1955

[Full Table of Content](#)



55/R/CD/4 Potatoes - Control of Blight (Copper and Sulphuric Spray)

Rothamsted Research

Rothamsted Research (1956) *55/R/CD/4 Potatoes - Control of Blight (Copper and Sulphuric Spray)* ; Yields Of The Field Experiments 1955, pp 97 - 98 - DOI: <https://doi.org/10.23637/ERADOC-1-175>

55/Cd/4.1

POTATOES

The control of Blight by Copper and Sulphuric Sprays - Little Knott 1955.

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

Area of each sub plot: 0.0140 acre.

Treatments:

Whole plots: No spray; Copper fungicide 5 lb in 45 gallons per acre sprayed twice; 100 gallons sulphuric acid, 20% B.O.V. 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 were compared with 4 undamaged rows.

Basal dressing per acre: 10 tons dung; 20 cwt compound granular fertilizer (7% N, 7% P₂O₅, 10 $\frac{1}{2}$ % K₂O).

Cultivations, etc.: Ploughed: Sept 29, 1954. Dung applied and cultivated in: Mar 18, 1955. Potatoes planted by machine with placed fertilizer: Apr 27. Earthed up: July 4. Fungicide treatment applied: Aug 18 and Sept 7. Sulphuric acid treatment applied: Sept 13. Lifted: Oct 26. Variety: King Edward. Previous crop: Beans - N. end; Wheat - S. end.

Standard errors per plot: Total tubers.

Whole plot: 0.875 tons per acre or 12.8% (6 d.f.)

Sub plot: 0.291 tons per acre or 4.2% (12 d.f.)

Note: Blight Counts were made.

55/Cd/4.2

Summary of Results

	Spray				Mean
	None	Copper fungicide	Sulphuric acid	Copper fungicide and Sulphuric acid	
Total tubers: tons per acre					
	(± 0.449)*				
Undamaged rows	7.73	6.08	7.30	6.81	6.98
Damaged rows	7.53	5.81	6.97	6.66	6.74
Mean (± 0.438)	7.63	5.95	7.13	6.74	6.86
Difference (± 0.206)	-0.20	-0.27	-0.33	-0.15	-0.24 (± 0.103)

Percentage ware ($1\frac{1}{2}$ " riddle)

Undamaged rows	78.5	72.5	79.2	73.2	75.9
Damaged rows	78.5	64.4	73.9	73.9	72.7
Mean	78.5	68.5	76.6	73.6	74.3
Difference	0.0	-8.1	-5.3	+0.7	-3.2

*For use in comparisons other than vertical.