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Yields of the Field Experiments 1955

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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 Knott¹ 1955.

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 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, 10½% 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				
	None	Copper fungicide	Sulphuric acid	Copper fungicide and Sulphuric acid	Mean
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.