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Yields of the Field Experiments 1956

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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/Ce/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.