

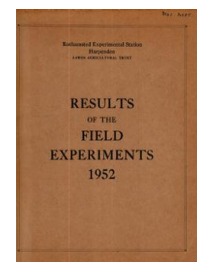
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Yields of the Field Experiments 1952

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52/CE/3 Potatoes - Control of Blight - Rothamsted

Rothamsted Research

Rothamsted Research (1953) *52/CE/3 Potatoes - Control of Blight - Rothamsted* ; Yields Of The Field Experiments 1952, pp 92 - 93 - DOI: <https://doi.org/10.23637/ERADOC-1-178>

52/Ce/3.1

POTATOES

Control of Blight - Little Hoes 1952.

System of replication: 4 x 4 Latin Square, plots being split into 2 for determination of tractor damage.

Area of each sub plot: 0.014 acre.

Treatments:

Whole plots: No Spray; Copper fungicide 5 lb per acre sprayed twice in summer; 100 gallons Sulphuric acid, 15% B.O.V. per acre sprayed to destroy haulms; Copper fungicide and sulphuric acid sprayed as above. The tractor used for spraying was driven over all the plots on each occasion.

Sub plots: The 4 inner rows damaged by three passages of the tractor were compared with the 4 outer and undamaged rows.

Basal dressing: 10 cwt compound granular fertilizer (7% N, 7% P₂O₅, 10½% K₂O) per acre.

Cultivations, etc.: Dung applied: Sept 27. Ploughed: Sept 29 and again Feb 4. Basal fertilizer broadcast, ridged: Apr 24. Potatoes planted: Apr 25. Earthed up: July 7. Sprayed appropriate plots with copper fungicide: Aug 13 and again Sept 4. Sprayed appropriate plots with sulphuric acid: Oct 7. Lifted: Nov 3. Variety: Majestic. Previous crop: Wheat.

Standard errors per plot: Total tubers.

Whole plot: 0.984 tons per acre or 13.5% (6 d.f.)

Sub plot: 0.614 tons per acre or 8.4% (12 d.f.)

Blight counts were made and are available. The mean level of infection was only 0.2%.

52/Ce/3.2

Summary of Results

	Spray				Mean
	None	Copper fungicide	Sulphuric Acid	Copper fungicide and Sulphuric Acid	
Total tubers: tons per acre					
	(±0.538)*				
Undamaged rows	7.45	7.55	7.17	6.99	7.29
Damaged rows	7.36	7.80	7.26	6.63	7.26
Mean (±0.492)	7.40	7.67	7.22	6.81	7.28
Difference (±0.434)	-0.09	+0.25	+0.09	-0.36	-0.03 (±0.217)
Percentage Ware**					
	86.1	90.7	84.9	84.1	86.4

* for use in all comparisons other than vertical.

** estimated from produce of damaged rows only.