

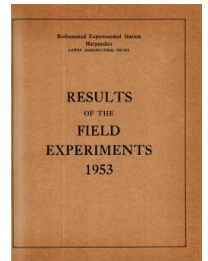
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Yields of the Field Experiments 1953

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

Rothamsted Research

Rothamsted Research (1954) *53/CE/3 Potatoes - Control of Blight - Rothamsted* ; Yields Of The Field Experiments 1953, pp 96 - 97 - DOI: <https://doi.org/10.23637/ERADOC-1-173>

53/Oe/3.1

POTATOES

Control of Blight - Deacons Field 1953.

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

Area of each sub plot: 0.0175 acre.

Treatments:

Whole plots: No spray; Copper fungicide 5 lb in 40 gallons per acre sprayed twice; 100 gallons Sulphuric acid, 15% B.O.V. 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: 15 cwt compound granular fertilizer (7% N; 7% P_2O_5 ; 10 $\frac{1}{2}$ % K_2O) per acre.

Cultivations, etc.: Ploughed: Sept 15, 1952. Cultivated twice: Mar 17, 1953. Ridged: Mar 26. Potatoes planted: Apr 16. Earthed up: June 26. Sprayed appropriate plots with copper fungicide: Aug 1 and again Aug 13. Sprayed appropriate plots with sulphuric acid: Sept 14. Lifted: Oct 6. Variety: Majestic. Previous crop: Barley.

Standard errors per plot: Total tubers.

Whole plot: 0.361 tons per acre or 2.7% (6 d.f.)

Sub plot: 0.454 tons per acre or 3.4% (12 d.f.)

Blight counts were made and are available. The mean level of infection was only 0.3%.

53/Ce/3.2

Summary of Results

	Spray				
	None	Copper fungicide	Sulphuric Acid	Copper fungicide and sulphuric Acid	Mean
Total tubers: tons per acre					
(± 0.242) [‡]					
Undamaged rows	13.45	13.87	13.28	14.66	13.82
Damaged rows	12.49	13.67	12.71	13.52	13.10
Mean (± 0.181)	12.97	13.77	13.00	14.09	13.46
Difference (± 0.321)	-0.96	-0.20	-0.57	-1.14	-0.72 (± 0.161)

Percentage Ware

Undamaged rows	91.4	88.4	91.8	89.7	90.3
Damaged rows	90.6	89.6	90.7	92.5	90.9
Mean	91.0	89.0	91.2	91.1	90.6
Difference	-0.8	+1.2	-1.1	+2.8	+0.6

[#] for use in comparisons other than vertical.