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Yields of the Field Experiments 1954

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54/R/CD/3 Potatoes - Control of Blight

Rothamsted Research

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POTATOES

Control of Blight - Great Field I 1954.

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

Area of each sub plot: 0.0140 acre.

Treatments:

Whole plots: No Spray; Copper fungicide 5 lb in 40 gallons per acre sprayed twice; 100 gallons sulphuric acid, 20% 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: 4 rows damaged by three passages of the tractor were compared with 4 undamaged rows.

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

Cultivations, etc.: F.Y.M. applied: Jan 18. Ploughed: Jan 20 - Feb 24. Fertilizer applied: Apr 21. Ridged: Apr 22. Planted: Apr 23. Cultivated with mechanical weeder: June 1, 25, 29. Ridged: June 3 and again July 14. Fungicide treatment applied: July 30 and again Aug 16. Sulphuric acid treatment applied: Sept 13. Lifted: Oct 23. Variety: Majestic S.S. Previous crop: Wheat.

Standard errors per plot: Total tubers.

Whole plot: 0.594 tons per acre or 5.8% (6 d.f.)

Sub plot: 0.969 tons per acre or 9.5% (12 d.f.)

Note: Blight counts were made and are available.

Summary of Results

	Spray			Copper fungicide and Sulphuric Acid	Mean
	None	Copper fungicide	Sulphuric Acid		
Total tubers: tons per acre (±0.454)*					
Undamaged rows	9.30	12.56	9.56	12.52	10.99
Damaged rows	8.01	9.99	9.12	10.91	9.51
Mean (±0.297)	8.66	11.27	9.34	11.71	10.25
Difference (±0.685)	-1.29	-2.57	-0.44	-1.61	-1.48 (±0.343)
Percentage ware					
Undamaged rows	86.2	87.0	86.8	82.4	85.6

*for use in comparisons other than vertical.