

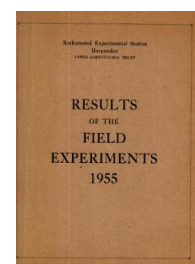
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Yields of the Field Experiments 1955

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55/R/CD/3 Potatoes - Control of Blight (Copper Spray)

Rothamsted Research

Rothamsted Research (1956) *55/R/CD/3 Potatoes - Control of Blight (Copper Spray)* ; Yields Of The Field Experiments 1955, pp 95 - 96 - DOI: <https://doi.org/10.23637/ERADOC-1-175>

55/Cd/3.1

POTATOES

The control of Blight by Copper Spray - Stackyard 1955.

Design: 5 randomized blocks of 2 plots each, plots being split into 2 for determination of the effect of tractor damage.

Note: There were originally 6 blocks, but the produce from 2 whole plots was accidentally mixed at lifting.

Area of each sub plot: 0.0140 acre.

Treatments:

Whole plots. No spray; Copper fungicide 5 lb in 45 gallons per acre sprayed twice. 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: 20 cwt compound granular fertilizer (7% N, 7% P_2O_5 , 10 $\frac{1}{2}$ % K_2O) per acre.

Cultivations, etc.: Ploughed: Oct 14, 1954. Sprayed with T.C.A., 20 lb in 40 gallons: Dec 6 and again Feb 2, 1955. Potatoes planted by machine with placed fertilizer: Apr 23. Earthed up: July 18. Fungicide treatment applied: Aug 4 and again Aug 29. Sprayed with sulphuric acid, 20% B.O.V.: Oct 4. Lifted: Oct 26. Variety: Majestic. Previous crop: Barley.

Standard errors per plot. Total tubers:

Whole plot: 1.09 tons per acre or 16.9% (4 d.f.)

Sub plot: 0.766 tons per acre or 11.8% (8 d.f.)

Note: Blight counts were made.

55/ca/3.2

Summary of Results

	None	Spray Copper fungicide	Mean
Total tubers: tons per acre			
	(1) and (2)		(± 0.242)
Undamaged rows	6.09	6.77	6.43
Damaged rows	6.51	6.52	6.51
Mean (± 0.488)	6.30	6.65	6.47

(1) ± 0.342 for use in vertical comparisons only.

(2) ± 0.545 for use in all others.

Percentage ware ($1\frac{1}{2}$ " riddle)

Undamaged rows	76.3	77.1	76.7
Damaged rows	77.8	79.2	78.5
Mean	77.0	78.2	77.6