

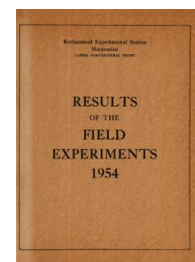
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Yields of the Field Experiments 1954

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54/R/CD/4 Potatoes - Placement of N and K

Rothamsted Research

Rothamsted Research (1955) *54/R/CD/4 Potatoes - Placement of N and K* ; Yields Of The Field Experiments 1954, pp 88 - 88 - DOI: <https://doi.org/10.23637/ERADOC-1-184>

54/Cd/4

POTATOES

Placement of N and K - Deacons Field 1954.

System of replication: 6 randomized blocks of 12 plots each with levels of N by levels of K partially confounded with block differences.

Area of each plot: 0.0141 acre. Area harvested: 0.00566 acre.

Treatments: All combinations of:-

N: None; 0.5; 1.0 cwt per acre as sulphate of ammonia.

K₂O: None; 0.75; 1.5 cwt per acre as sulphate of potash.

Methods of placement: Broadcast on flat before planting;

Side band placement at planting.

Basal dressing: 1.0 cwt P₂O₅ per acre as superphosphate, placement drilled as above.

Cultivations etc.: Ploughed: Oct 21, 1953. Applied broadcast fertilizers, machine planted with placed fertilizers: Apr 26, 1954. Earthed up: July 9. Sprayed with copper fungicide, low volume, 5 lb in 10 gallons per acre: July 29 and again Aug 26. Sprayed with sulphuric acid, 20% B.O.V.: Oct 6. Lifted: Oct 15. Variety: Majestic. Previous crop: Barley.

Standard error per plot:

Total tubers: 0.999 tons per acre or 9.9% (31 d.f.)

Summary of Results

Total tubers: tons per acre

K ₂ O: cwt per acre	N: cwt per acre				Mean	
	None	Broadcast		Placed		
		0.5	1.0	0.5	1.0	
None	(±0.385)	(±0.545)				(±0.204)
	8.06	9.22	11.27	9.69	11.51	9.64
	(±0.545)	(±0.771)				(±0.288)
Broadcast						
0.75	7.84	10.55	11.73	10.82	11.88	10.11
1.5	8.13	9.53	11.54	11.12	12.08	10.09
Placed						
0.75	7.94	10.30	11.05	11.58	14.69	10.58
1.5	8.67	11.20	11.88	9.60	12.80	10.47
Mean	8.12	10.00	11.46	10.42	12.41	10.09
	(±0.204)	(±0.288)				