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Yields of the Field Experiments 1955

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55/R/CD/1 Potatoes - Placement of N and K

Rothamsted Research

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55/cd/1

POTATOES

Placement of Nitrogen and Potash - Little Hoos 1955.

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

Area of each plot: 0.0140 acre. Area harvested: 0.0057 acre.

Treatments: All combinations of:-

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

Potash: None; 0.75; 1.5 cwt K₂O 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 7, 1954. Broadcast fertilizers applied, machine planted with placed fertilizers: Apr 23, 1955. Earthed up: July 6. Sprayed with sulphuric acid, 20% B.O.V.: Sept 28. Hand dug: Oct 7. Variety: Majestic. Previous crop: Beans.

Standard error per plot:

Total tubers: 0.589 tons per acre or 11.4% (31 d.f.)

Summary of Results

Total tubers: tons per acre

K ₂ O: cwt per acre	N: cwt per acre					Mean
	None	Broadcast 0.5	Broadcast 1.0	Placed 0.5	Placed 1.0	
	(±0.227)		(±0.321)			(±0.131)
None	4.85	4.53	4.41	4.79	4.47	4.65
	(±0.321)		(±0.455)			(±0.186)
Broadcast						
0.75	4.37	4.92	4.59	3.95	6.37	4.76
1.5	4.95	5.64	6.70	5.27	6.08	5.60
Placed						
0.75	4.67	5.73	7.59	6.07	5.65	5.73
1.5	4.08	5.67	6.95	6.55	6.70	5.67
Mean	4.63	5.17	5.77	5.24	5.62	5.18
	(±0.131)		(±0.186)			