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Yields of the Field Experiments 1951

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51/CE/4 Potatoes - Method of Planting - Rothamsted

Rothamsted Research

Rothamsted Research (1952) *51/CE/4 Potatoes - Method of Planting - Rothamsted* ; Yields Of The Field Experiments 1951, pp 84 - 84 - DOI: <https://doi.org/10.23637/ERADOC-1-171>

51/Ce/4

POTATOES

Nitrophosphates - Highfield 4 1951.

System of replication: 5 randomized blocks of 6 plots each.

Area of each plot: 0.014 acre.

Treatments: None; Sulphate of ammonia; Granular superphosphate; Sulphate of ammonia and Superphosphate; British nitrophosphate (12.8% N, 15.25% P₂O₅); Dutch nitrophosphate (20% N, 20.3% P₂O₅). The dressings supply 0.39 cwt N and 0.39 cwt P₂O₅ per acre, the British nitrophosphate receiving extra N as Sulphate of ammonia to reach this standard.

Basal manuring: 2 cwt Muriate of potash per acre.

All fertilizers were directed into the bottom of the furrows.

Cultivations, etc: Ploughed: Mar 1. Ground chalk, 24 cwt per acre, applied: Apr 18. Ridged, fertilizers applied: May 7. Potatoes planted: May 8. Earthed up ridges: July 12. Sprayed with copper fungicide 5 lb per acre: Aug 15 and again Sept 11. Sprayed with 20% Sulphuric acid: Sept 29. Lifted: Oct 15. Variety: Majestic. Previous crop: Permanent grass.

Standard error per plot:

Total clean tubers: 1.03 tons per acre or 14.7% (20 d.f.)

Summary of Results

	No fert- ilizer	Sulphate of Ammonia	Super- phosphate	Sulphate of Ammonia and Super- phosphate	British Nitro- phosphate	Dutch Nitro- phosphate	Mean
Total clean tubers: tons per acre							
Mean	6.67	7.16	7.20	7.47	7.04	6.46	7.00
(±0.462)							
Increase		0.49	0.53	0.80	0.37	-0.21	
(±0.653)							
Percentage Ware (1½" riddle)							
Mean	79.2	73.3	80.3	79.1	78.9	81.6	78.8
Increase		-5.9	1.1	-0.1	-0.3	2.4	