

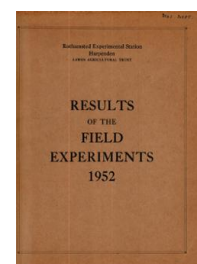
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Yields of the Field Experiments 1952

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52/CE/4 Potatoes - Nitrophosphates - Rothamsted

Rothamsted Research

Rothamsted Research (1953) *52/CE/4 Potatoes - Nitrophosphates - Rothamsted* ; Yields Of The Field Experiments 1952, pp 94 - 94 - DOI: <https://doi.org/10.23637/ERADOC-1-178>

52/Ce/4

POTATOES

Nitrophosphates - Highfield 5 1952.

System of replication: 6 x 6 Latin Square.

Area of each plot: 0.0196 acre. Area harvested: 0.0147 acre.

Treatments: None; Superphosphate at 0.3 and 0.6 cwt P₂O₅ per acre; British nitrophosphate (14.2% N, 14.4% P₂O₅) at 0.45 cwt P₂O₅ per acre; French nitrophosphate (12.1% N, 11.9% P₂O₅, 13.0% K₂O) at 0.45 cwt P₂O₅ per acre; Dutch nitrophosphate (19.3% N, 20.2% P₂O₅) at 0.45 cwt P₂O₅ per acre.

Treatments received extra sulphate of ammonia and muriate of potash to bring them to the level of 0.6 cwt N and 1.0 cwt K₂O per acre.

Basal dressing: None.

Cultivations, etc.: Ploughed: Mar 18. Ridged: Apr 30. Fertilizers applied, potatoes planted: May 1. Earthed up: July 9. Sprayed with copper fungicide 5 lb per acre: Aug 13 and again Sept 5. Sprayed with sulphuric acid, 20% B.O.V.: Oct 8. Lifted: Oct 17. Variety: Majestic. Previous crop: Kale.

Standard error per plot:

Total tubers: 1.25 tons per acre or 9.0% (20 d.f.)

Summary of Results

	No fert- ilizer	Superphosphate at		Nitrophosphate at			Mean
		0.3 cwt P ₂ O ₅ per acre	0.6 cwt P ₂ O ₅ per acre	0.45 cwt P ₂ O ₅ per acre			
				British	French	Dutch	
Total tubers: tons per acre							
Mean (±0.511)	13.87	12.97	14.89	14.00	13.89	13.41	13.84
Increase (±0.722)		-0.90	+1.02	+0.13	+0.02	-0.46	
Percentage Ware (1½" riddle)							
Mean	82.1	80.4	78.4	81.2	81.9	79.8	80.6
Increase		-1.7	-3.7	-0.9	-0.2	-2.3	