

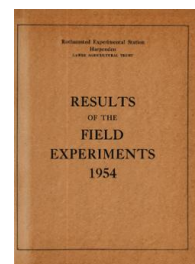
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1954

[Full Table of Content](#)



54/R/CD/1 Potatoes - Dung N P K

Rothamsted Research

Rothamsted Research (1955) *54/R/CD/1 Potatoes - Dung N P K ; Yields Of The Field Experiments 1954*, pp 83 - 83 - DOI: <https://doi.org/10.23637/ERADOC-1-184>

54/Ca/1

POTATOES

Dung, N, P and K - Sawyers I 1954.

System of replication: 4 randomized blocks of 8 plots each, the interaction DNPk being confounded with block differences.

Area of each plot: 0.0210 acre. Area harvested: 0.0140 acre.

Treatments: All combinations of:-

Dung: None; 10 tons per acre.

N: None; 0.6 cwt per acre applied as sulphate of ammonia.

P₂O₅: None; 0.6 cwt per acre applied as superphosphate.

K₂O: None; 1.0 cwt per acre applied as muriate of potash.

Basal dressing: None.

Cultivations, etc.: Dung applied: Nov 30, 1953. Ploughed: Dec 2. Ridged and fertilizers applied in ridges: Apr 23, 1954. Potatoes hand planted: Apr 24. Earthed up: July 6. Sprayed with copper fungicide, low volume, 5 lb in 10 gallons per acre: July 29 and again Aug 23. Sprayed with 15% sulphuric acid: Sept 25. Lifted: Oct 16 and again Oct 23. Variety: Majestic S.S. Previous crop: Dredge corn.

Standard error per plot:

Total tubers: 0.997 tons per acre or 11.4% (18 d.f.)

Summary of Results

Responses to Treatments

Response to	Mean	Dung: tons per acre		N		P ₂ O ₅ cwt per acre		K ₂ O	
		0	10	0.0	0.6	0.0	0.6	0.0	1.0

Total tubers: Mean yield 8.75 tons per acre

(±0.352)

(±0.498)

Dung	+2.04	-	-	+1.56	+2.52	+2.28	+1.80	+4.03	+0.05
N	+2.08	+1.60	+2.56	-	-	+1.11	+3.05	+1.17	+2.99
P ₂ O ₅	+0.67	+0.91	+0.43	-0.30	+1.64	-	-	+0.83	+0.51
K ₂ O	+1.56	+3.55	-0.43	+0.65	+2.47	+1.72	+1.40	-	-

Percentage ware (1½" riddle): Mean 82.9

Dung	+2.1	-	-	+0.7	+3.5	+1.5	+2.7	+6.1	-1.9
N	+2.6	+1.2	+4.0	-	-	+0.9	+4.3	+0.3	+4.9
P ₂ O ₅	-2.4	-3.0	-1.8	-4.1	-0.7	-	-	-0.2	-4.6
K ₂ O	+3.1	+7.1	-0.9	+0.8	+5.4	+5.3	+0.9	-	-