

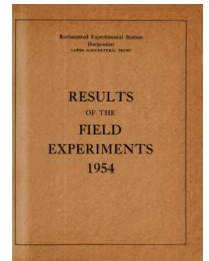
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1954

[Full Table of Content](#)



54/R/CA/3 Wheat - Residuals of Dung, N P K

Rothamsted Research

Rothamsted Research (1955) *54/R/CA/3 Wheat - Residuals of Dung, N P K ; Yields Of The Field Experiments 1954*, pp 67 - 67 - DOI: <https://doi.org/10.23637/ERADOC-1-184>

54/Ca/3

WHEAT

Residual effects of Dung, N, P and K - West Barnfield I, 1954.

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

Area of each plot: 0.0318 acre. Area harvested: 0.0150 acre.

Treatments, applied to potatoes in 1953: 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: 2½ cwt sulphate of ammonia per acre in spring.

Cultivations, etc.: Cultivated: Oct 7, 1953. Seed drilled at 3 bushels per acre: Nov 6. Sprayed with D.N.O.C. at high volume: Apr 26, 1954. Sulphate of ammonia applied: Apr 30. Combine harvested: Sept 9. Variety: Cappelle. Previous crop: Potatoes.

Standard error per plot:

Grain (at 85% D.M.): 1.79 cwt per acre or 4.5% (18 d.f.)

Note: For details of the preceding potato experiment see 53/Ce/1.

Summary of Results

Responses to Treatments

Responses to Treatments									
Response to	Mean	Dung: tons:		cwt per acre					
		per acre		N		P ₂ O ₅		K ₂ O	
		0.0	10	0.0	0.6	0.0	0.6	0.0	1.0
Grain (at 85% dry matter): Mean yield 39.9 cwt per acre									
(±0.63) (±0.90)									
Dung	+4.3	-	-	+3.4	+5.2	+3.9	+4.7	+3.7	+4.9
N	+2.2	+1.3	+3.1	-	-	+2.6	+1.8	+2.6	+1.8
P ₂ O ₅	+0.3	-0.1	+0.7	+0.7	-0.1	-	-	-0.6	+1.2
K ₂ O	+1.8	+1.2	+2.4	+2.2	+1.4	+0.9	+2.7	-	-

Mean dry matter % as harvested: 74.7