ROTHAMSTED RESEARCH

Yields of the Field Experiments 1954

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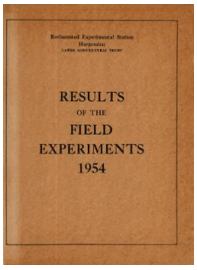

54/R/CA/3 Wheat - Residuals of Dung, N P K

Rothamsted Research

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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
P_2O_5: None; 0.6 cwt per acre applied as superphosphate
K_2O: 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

Response to	Mean	Dung: tons per acre 0.0	Dung: tons per acre 10	N cwt per acre 0.0	N cwt per acre 0.6	P_2O_5 cwt per acre 0.0	P_2O_5 cwt per acre 0.6	K_2O cwt per acre 0.0	K_2O cwt per acre 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_2O_5	+0.3	-0.1	+0.7	+0.7	-0.1	-	-	-0.6	+1.2
K_2O	+1.8	+1.2	+2.4	+2.2	+1.4	+0.9	+2.7	-	-

Mean dry matter % as harvested: 74.7

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