ROTHAMSTED RESEARCH

Yields of the Field Experiments 1955

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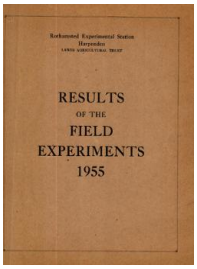

55/R/CA/5 Spring Wheat - Residuals of Dung, N P K

Rothamsted Research

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55/Ca/5

SPRING WHEAT

Residual effects of Dung, Nitrogen, Phosphate and Potash - Sawyers I 1955.

Design: 4 randomized blocks of 8 plots each, the interaction DNPK being confounded with block differences.

Area of each plot: 0.0210 acre. Area harvested: 0.0150 acre.

Treatments, applied to potatoes in 1954: All combinations of:-
Dung: None; 10 tons per acre.
Nitrogen: None; 0.6 cwt N per acre applied as sulphate of ammonia.
Phosphate: None; 0.6 cwt P_2O_5 per acre applied as superphosphate.
Potash: None; 1.0 cwt K_2O per acre applied as muriate of potash.

Basal dresssing to wheat: 4 cwt nitrochalk per acre; 21 cwt ground chalk per acre.

Cultivations, etc.: Ploughed: Jan 21, 1955. Chalk applied: Mar 31. Nitrogen applied, seed drilled at 2 bushels per acre: Apr 1. Sprayed with DNOC at 8 lb per acre in 80 gallons: May 2. Combine harvested: Sept 1. Variety: Koga II. Previous crop: Potatoes.

Standard error per plot:
Grain: 2.20 cwt per acre or 7.5% (18 d.f.)

For details of the preceding potato experiment see 54/Cd/1.

Summary of Results

Grain: Mean yield 29.5 cwt per acre

Responses to treatments

Response to	Mean	Dung: tons per acre		cwt per acre N		P_2O_5		K_2O	
		None	10	None	0.6	None	0.6	None	1.0
	(±0.78)	(±1.10)							
Dung	+1.2	-	-	+1.1	+1.3	+1.5	+0.9	+0.5	+1.9
N	+1.7	+1.6	+1.8	-	-	+0.8	+2.6	+1.4	+2.0
P_2O_5	+1.4	+1.7	+1.1	+0.5	+2.3	-	-	+2.0	+0.8
K_2O	-0.1	-0.8	+0.6	-0.4	+0.2	+0.5	-0.7	-	-

Mean dry matter % as harvested: 85.0

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