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Yields of the Field Experiments 1952

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52/CB/2 Barley - Nitrophosphates - Rothamsted

Rothamsted Research

Rothamsted Research (1953) *52/CB/2 Barley - Nitrophosphates - Rothamsted* ; Yields Of The Field Experiments 1952, pp 79 - 79 - DOI: <https://doi.org/10.23637/ERADOC-1-178>

52/Cb/2

BARLEY

Nitrophosphates placement - Highfield 3 1952.

System of replication: 4 randomized blocks of 6 plots each.

Area of each plot (average): 0.0143 acre.

Treatments: Nitrochalk at 0.5 cwt N per acre broadcast (two plots per block), and all combinations of:-

Manures: Nitrophosphate (British) 13.9% N, 14.6% P₂O₅; Nitrochalk and Granular Superphosphate. Each manure provided 0.5 cwt N and 0.53 cwt P₂O₅ per acre.

Method of placement: Broadcast; Combine drilled.

Basal dressing: None.

Cultivations, etc.: Ploughed: Sept 18. Seed drilled at 3½ bushels per acre and all fertilizers applied: Mar 15. Harvested: July 30. Variety: Plumage Archer. Previous crop: Linseed.

Standard errors per plot: Grain.

Yield: 2.37 cwt per acre or 11.0% (16 d.f.)

P₂O₅ uptake: 0.0180 cwt per acre or 16.0% (16 d.f.)

Summary of Results

	Nitrochalk broadcast	Nitrophosphate broadcast	combine drilled	Nitrochalk and superphosphate broadcast	combine drilled	Mean
Yield: cwt per acre						
Grain (±1.18)	18.9 ⁽¹⁾	21.9	24.4	22.0	22.6	21.4
Increase (±1.45)		3.0	5.5	3.1	3.7	
Straw	32.6	30.5	36.7	33.2	32.9	33.1
Increase		-2.1	+4.1	+0.6	+0.3	
P ₂ O ₅ uptake: cwt per acre						
Grain (±0.0090)	0.098 ⁽²⁾	0.115	0.132	0.117	0.114	0.112
Increase (±0.0110)		0.017	0.034	0.019	0.016	
Straw	0.028	0.023	0.030	0.030	0.026	0.027
Increase		-0.005	+0.002	+0.002	-0.002	

(1) ±0.84
(2) ±0.0064