

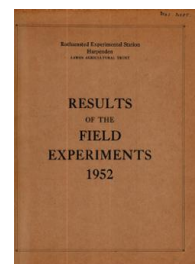
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52/CA/5 Wheat - Late Application of Nitrogen - Rothamsted

Rothamsted Research

Rothamsted Research (1953) *52/CA/5 Wheat - Late Application of Nitrogen - Rothamsted* ; Yields Of The Field Experiments 1952, pp 75 - 76 - DOI: <https://doi.org/10.23637/ERADOC-1-178>

52/Ca/5.1

WHEAT

Late application of nitrogen and methods of harvesting - Fosters 1952.

System of replication: 4 randomized blocks of 3 plots each, blocks and plots being split into 2 strips for different methods of harvesting.

Area of each plot: 0.0242 acre. Area harvested: 'binder' plots - 0.0202 acre, 'combine' plots - 0.0091 acre.

Treatments:

Nitrochalk: None; $1\frac{1}{2}$; 3 cwt per acre applied as top dressing.
Methods of harvesting: Binder; N.I.A.E. combine harvester.

Basal manuring: 3 cwt sulphate of ammonia per acre.

Cultivations, etc.: Ploughed: Sept 11. Seed drilled at 3 bushels per acre: Oct 24. Sulphate of ammonia applied: Apr 18. Sprayed with D.N.O.C.: May 15. Nitrochalk applied: June 28. Harvested: 'binder' plots - Aug 12, 'combine' plots - Aug 13. Variety: Yeoman. Previous crop: Wheat.

Standard errors per plot. Grain:

Strip: 1.72 cwt per acre or 8.9% (3 d.f.)
Whole plot: 1.32 cwt per acre or 6.9% (6 d.f.)
Sub plot: 1.68 cwt per acre or 8.7% (6 d.f.)

52/Ca/5.2

Summary of Results

	Nitrochalk: cwt per acre as top dressing			Mean
	None	1.5	3.0	
Grain: cwt per acre				
	(a) and (b)			
Binder	19.0	20.9	20.8	20.2
Combine	18.7	18.4	17.5	18.2
Mean (± 0.66)	18.8	19.7	19.2	19.2
Difference (± 1.55)	-0.3	-2.5	-3.3	-2.0 (± 1.21)

(a) ± 0.89 for use in horizontal comparisons only(b) ± 1.13 for use in diagonal comparisons onlyBinder Plots

Straw: cwt per acre				
	33.7	34.1	35.9	34.6
Crude Protein: cwt per acre				
Grain	2.11	2.44	2.43	
Increase		0.33	0.32	
Straw	0.68	0.68	0.74	
Increase		0.00	0.06	

Percentage uptake of added nitrogen

Grain	23	11	
Straw	1	2	