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53/CB/1 Barley - Late Application of Nitrogen - Rothamsted

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Rothamsted Research (1954) *53/CB/1 Barley - Late Application of Nitrogen - Rothamsted* ; Yields Of The Field Experiments 1953, pp 79 - 79 - DOI: <https://doi.org/10.23637/ERADOC-1-173>

BARLEY

Late application of nitrogen - Deacons. Field 1953.

System of replication: 4 randomized blocks of 3 plots each.

Area of each plot: 0.0204 acre.

Treatments:

Nitrogen: None; 0.23; 0.46 cwt per acre applied as nitrochalk top dressing.

Basal dressing per acre: $2\frac{1}{4}$ cwt sulphate of ammonia, 1 cwt superphosphate.

Cultivations, etc.: Ploughed: Feb 5. Seed drilled at 3 bushels per acre with Superphosphate: Mar 7. Sulphate of ammonia applied: Mar 9. Nitrochalk applied: June 25. Harvested: Aug 13. Variety: Herta. Previous crop: Potatoes.

Standard error per plot:

Grain: 0.582 cwt per acre or 1.4% (6 d.f.)

Summary of Results

	Nitrogen (as nitrochalk top dressing): cwt per acre			Mean
	None	0.23	0.46	
	Yield: cwt per acre			
Grain (± 0.29)	38.6	40.3	42.0	40.3
Straw [✱]	39.8	39.3	40.8	40.0
	Crude protein: cwt per acre			
Grain	3.74	4.26	4.63	
Increase		0.52	0.89	
Straw	0.80	0.96	1.22	
Increase		0.16	0.42	
	Percentage uptake of added nitrogen			
Grain		36	31	
Straw		11	14	

[✱]Corrected to 85% dry matter. Mean dry matter %:85.1.