ROTHAMSTED RESEARCH

Yields of the Field Experiments 1951

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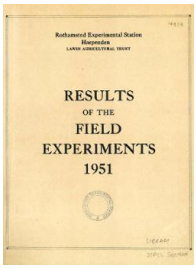

51/CB/1 Barley - Late Application of Nitrogen - Rothamsted

Rothamsted Research

Rothamsted Research (1952) *51/CB/1 Barley - Late Application of Nitrogen - Rothamsted ;* Yields Of The Field Experiments 1951, pp 69 - 69 **- DOI: https://doi.org/10.23637/ERADOC-1-171**

BARLEY

Late application of nitrogen - Stackyard 1951.

System of replication: 8 randomized blocks of 3 plots each.

Area of each plot: 0.0186 acre.

Treatments:
Nitrochalk: None; 1½; 3 cwt per acre applied as a late top dressing.

Basal manuring: 1 cwt Superphosphate per acre drilled with seed;
2 cwt Sulphate of ammonia per acre as a top dressing.

Cultivations, etc: Ploughed: Mar 31. Seed drilled at 3¼ bushels per acre with Superphosphate: May 2. Sulphate of ammonia applied: June 1. Sprayed with DNOC against weeds, Nitrochalk applied: July 11. Harvested: Sept 13. Variety: Plumage Archer. Previous crop: Kale.

Standard errors per plot:
Grain*: 2.31 cwt per acre or 7.1% (14 d.f.)
Straw*: 1.97 cwt per acre or 7.7% (14 d.f.)

Summary of Results

Nitrochalk: cwt per acre, as top dressing.

	None	1½	3	Mean
		Yield: cwt per acre		
Grain* (±0.82)	31.7	32.4	33.3	32.5
Straw* (±0.76)	24.5	24.8	27.4	25.6
		Crude protein: cwt per acre		
Grain	3.70	4.15	4.50	
Increase		0.45	0.80	
Straw	1.19	1.33	1.61	
Increase		0.14	0.42	
		Percentage uptake of added nitrogen		
Grain		30	27	
Straw		10	14	

* Corrected to 85% dry matter owing to variable conditions during harvesting.