

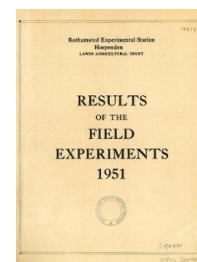
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# Yields of the Field Experiments 1951

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## 51/CC/1 Spring Oats - Late Application of Nitrogen - Rothamsted

### Rothamsted Research

Rothamsted Research (1952) *51/CC/1 Spring Oats - Late Application of Nitrogen - Rothamsted ; Yields Of The Field Experiments 1951*, pp 70 - 70 - DOI: <https://doi.org/10.23637/ERADOC-1-171>

51/Cc/1

SPRING OATS

Late application of nitrogen - Great Harpenden II 1951.

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

Area of each plot: 0.0186 acre.

Treatments:

Nitrochalk: None;  $1\frac{1}{2}$ ; 3 cwt per acre applied as a late top dressing.

Basal manuring:  $1\frac{1}{2}$  cwt Superphosphate per acre drilled with the seed;  $1\frac{2}{3}$  cwt Sulphate of ammonia per acre as a top dressing.

Cultivations, etc.: Ploughed: Dec 23. Seed drilled at 4 bushels per acre with Superphosphate: Apr 19. Sulphate of ammonia applied: June 4. Nitrochalk applied: July 5. Harvested: Aug 23. Variety: Sun II. Previous crop: Spring Oats.

Standard errors per plot:

Grain: 0.814 cwt per acre or 4.4% (14 d.f.)  
 Straw\*: 1.06 cwt per acre or 7.7% (14 d.f.)

Summary of Results

	Nitrochalk: cwt per acre, as top dressing			Mean
	None	$1\frac{1}{2}$	3	
Yield: cwt per acre				
Grain ( $\pm 0.29$ )	17.7	18.4	18.7	18.3
Straw* ( $\pm 0.38$ )	12.8	13.9	14.8	13.8
Crude protein: cwt per acre				
Grain	1.98	2.18	2.29	
Increase		0.20	0.31	
Straw	0.55	0.74	0.94	
Increase		0.19	0.39	
Percentage uptake of added nitrogen				
Grain		14	11	
Straw		13	14	

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