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Yields of the Field Experiments 1952

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52/CC/1 Spring Oats - Late Application of Nitrogen - Rothamsted

Rothamsted Research

Rothamsted Research (1953) *52/CC/1 Spring Oats - Late Application of Nitrogen - Rothamsted* ;
Yields Of The Field Experiments 1952, pp 80 - 80 - DOI: <https://doi.org/10.23637/ERADOC-1-178>

52/Cc/1

SPRING OATS

Late application of nitrogen - Long Hoos III 1952.

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

Area of each plot: 0.0145 acre.

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

Basal dressing: $2\frac{1}{2}$ cwt sulphate of ammonia per acre; 1 cwt superphosphate per acre drilled with the seed.

Cultivations, etc.: Ploughed: Dec 10. Sulphate of ammonia applied: Mar 3. Seed drilled at 4 bushels per acre with superphosphate: Mar 15. Sprayed with M.C.P.A. low volume, $2\frac{1}{2}$ pints in 10 gallons of water: May 13. Nitrochalk applied: June 30. Harvested: July 24. Variety: Star. Previous crop: Wheat.

Standard errors per plot:

Grain*: 1.74 cwt per acre or 4.9% (14 d.f.)

Straw*: 2.39 cwt per acre or 5.2% (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* (± 0.62)	35.5	36.4	35.2	35.7
Straw* (± 0.84)	45.5	45.5	45.6	45.5
Crude protein: cwt per acre				
Grain	3.57	3.87	3.81	
Increase		0.30	0.24	
Straw	0.87	0.92	0.97	
Increase		0.05	0.10	
Percentage uptake of added nitrogen				
Grain		21	8	
Straw		3	3	

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