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Yields of the Field Experiments 1956



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56/R/CA/5 and 56/W/CA/5 Spring Wheat - Levels and Time of N

Rothamsted Research

Rothamsted Research (1957) 56/R/CA/5 and 56/W/CA/5 Spring Wheat - Levels and Time of N; Yields Of The Field Experiments 1956, pp 76 - 78 - **DOI:** https://doi.org/10.23637/ERADOC-1-176

56/Ca/4.2

Summary of Results

Grain (at 85% dry matter): cwt per acre

	^T 1	T ₂	^T 3	T ₄	Mean		
Mean (±0.65)	12.1	12.8	14.7	6.9	11.6		
		(±0.	.91)				
v ₁ v ₂	10.7	10.2	12.8 16.5	6.8	10.1 13.1		
Difference (±1.29)	+2.8	+5.3	+3.7	+0.1	+3.0 (±0.65)	
R ₁ R ₂	10.1	12.0 13.7	11.9 17.5	4.7	9•7 13•6		
Difference (±1.29)	+3.9	+1.7	+5.6	+4.3	+3.9 (±0.65)		
N ₁ N ₂	11.2	10.9	10.6 18.7	7.8 5.9			
Difference (±1.29)	+1.7	+3.9	+8.1	-1.9	+3.0 (±0.65)		
	R ₁	R ₂	No	N ₁	N ₂	Mean	
			(±0.65)	(±	0.46)		
Mean			_ 5.3 _	10.1	13.1	_10.3 _	
	(± 0	.65)	(±0,91)	(±	0.65)	(±0.41)	
v ₁ v ₂	9.0	11.2 15.9	5.1 5.5	8.7 11.6		9.1	
R ₁			5.3 5.3	8.4 11.8		8.8	
R ₂	1		1				
R ₂ Mean dry matter % a	s harves	ted: 78.	7				

V₂ Cappelle R₁, R₂ 2, 4 bushels per acre

acre N₂ 0.93 cwt N per acre

T₁ 'Nitro-Chalk' half in March half in May
T₂ 'Nitro-Chalk' all in mid March
T₃ 'Nitro-Chalk' all in mid April
T₄ 'Nitro-Chalk' all in mid May

The V x R table does not include the plots receiving no nitrogen.

56/Ca/5.1

SPRING WHEAT

Rates and times of application of nitrogen - Rothamsted (R) Little Hoos and Woburn (W) Stackyard, Series C.

Design (each field): 22 treatments arranged in 4 blocks of 13 plots each, the control and 3 of the treatments occurring in every block, the other 18 treatments occurring in 2 blocks. The total amounts of N applied per block were equal.

Area of each plot: 0.0212 acres. Area harvested: 0.0141 acres.

Treatments: None, and all combinations of:Nitrogen: 0.3; 0.6; 0.9 cwt N per acre as 'Nitro-Chalk'.

Times of application: All in seed bed (S); all as early top dressing (E); all as late top dressing (L); ½ S & ½ E;
½ S & ½ L; ½ E & ½ L; ⅓ S, ⅓ E & ⅓ L.

Basal dressing:
Rothamsted: 1 cwt superphosphate per acre combine drilled with seed.
Woburn: 1 cwt compound fertilizer (16% P205, 16% K20) per acre
combine drilled with seed.

Cultivations, etc.:

Little Hoos (R). Ploughed: Oct 14, 1955 and Jan 24, 1956. Seed bed 'Nitro-Chalk' applied, seed combine drilled at 2½ bushels per acre: Mar 17. Early 'Nitro-Chalk' top dressing applied:

Apr 16. Sprayed with DNOC 6 lb in 90 gallons per acre: May 4.

Late 'Nitro-Chalk' top dressing applied: May 17. Combine harvested: Sept 20. Variety: Koga II. Previous crop: Potatoes. Stackyard (W). Ploughed: Nov 12, 1955. Seed bed 'Nitro-Chalk' applied: Mar 14, 1956. Seed combine drilled at 3 bushels per acre: Mar 16. Early 'Nitro-Chalk' top dressing applied: Apr 16.

Late 'Nitro-Chalk' top dressing applied: May 16. Sprayed with MCPA, 3 pints in 20 gallons per acre: May 31. Combine harvested: Sept 12. Variety: Peko. Previous crop: Wheat.

Standard errors per plot. Grain (at 85% dry matter): cwt per acre.

Little Hoos (R): 1.87 cwt per acre or 5.7% (27 d.f.)

Stackyard (W): 1.53 cwt per acre or 7.1% (27 d.f.)

56/Ca/5.2

Summary of Results

Grain (at 85% dry matter): cwt per acre

Rothamsted Little Hoos

N:	cwt per	acre	S	E	Time L	of appl	ication $\frac{1}{2}S_{2}^{1}L$	1 <u>2</u> 12 <u>7</u>	3S記記	Mean
_	N			(±1,41)					(±0.94)	26.3(1)
	None 0.3 0.6 0.9		32.6 35.6 34.2	31.0 36.4 33.3	33.1 34.4 32.9	33.7 31.0 34.4	33.1 33.4 33.5	30.7 32.6 32.5	31.6 34.3 36.0	32.2 34.0 34.1
Me	an (±0.7	8)	34.1	33.6	33.5	33.0	33.3	31.9	34.0	32.9
		(1)	±0.94	(2)	±0.54					

Mean dry matter % as harvested: 80.2

Woburn Stackyard Field

N: cwt per acre	S	E	Time L	of appl	ication $\frac{1}{2}S_{2}^{1}L$	起起	3S3E3L	Mean
		(±1.15)					(±0.77)	(±0.38) 11.4 ⁽¹⁾
None 0.3 0.6 0.9	19.6 23.6 23.0	18.0 21.6 22.0	18.3 20.7 22.8	19.4 24.9 25.8	18.5 24.0 25.0	20.7 22.4 23.8	20.6 25.0 25.1	19.4 23.4 24.1
Mean (±0.64)	22.1	20.5	20.6	23.4	22.5	22.3	23.5	21.5
(1)	±0.77	(2)	±0.44					

Mean dry matter % as harvested: 68.0

Time of application

- S In seedbed.
- E Early top dressing.
- L Late top dressing.