

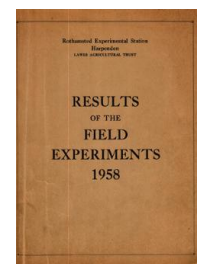
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1958

[Full Table of Content](#)



58/R/CA/6 and 58/W/CA/6 Spring Wheat - Levels and Time of N

Rothamsted Research

Rothamsted Research (1959) *58/R/CA/6 and 58/W/CA/6 Spring Wheat - Levels and Time of N* ; Yields Of The Field Experiments 1958, pp 84 - 85 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

58/Ca/6.1

SPRING WHEAT

Levels and times of application of nitrogen - Rothamsted (R)
Great Knott III and Woburn (W) Stackyard, Series C 1958.

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 seedbed (S); all as early top dressing (E); all as late top dressing (L); $\frac{1}{2}$ S & $\frac{1}{2}$ E; $\frac{1}{2}$ S & $\frac{1}{2}$ L; $\frac{1}{2}$ E & $\frac{1}{2}$ L; $\frac{1}{3}$ S, $\frac{1}{3}$ E, $\frac{1}{3}$ L.

Basal dressing:

Great Knott III (R): 2 cwt compound fertilizer (16% P₂O₅, 16% K₂O) per acre combine drilled with seed.

Stackyard (W): 1 cwt compound fertilizer (16% P₂O₅, 16% K₂O) per acre combine drilled with seed.

Cultivations, etc.:

Great Knott III (R). Ploughed: Oct 28, 1957. Seedbed 'Nitro-Chalk' applied, seed combine drilled at 3 bushels per acre: Apr 2, 1958.

Early 'Nitro-Chalk' top dressing applied: Apr 25. Late 'Nitro-Chalk' top dressing applied: May 16. Sprayed with MCPA at 4 pints in 40 gallons per acre: May 20. Combine harvested: Sept 12. Variety: Kog II. Previous crop: Spring wheat.

Stackyard (W). Ploughed: Feb 13, 1957 to Mar 5, 1958. Seedbed 'Nitro-Chalk' applied: Mar 21. Seed combine drilled at 3 bushels per acre: Mar 22. Early 'Nitro-Chalk' top dressing applied: Apr 23. Late 'Nitro-Chalk' top dressing applied: May 16. Sprayed with MCPA at 4 pints in 40 gallons per acre: May 27. Combine harvested: Oct 9. Variety: Peko. Previous crop: Potatoes.

Standard errors per plot, Grain (at 85% dry matter).

Great Knott III (R): 2.58 cwt per acre or 14.0% (27 d.f.)

Stackyard (W): 1.97 cwt per acre or 7.4% (27 d.f.)

Note. Estimates of incidence of Eyespot (*Cercospora herpotrichoides*) and Take-all (*Ophiobolus graminis*), and counts of plant number were made.

58/Ca/6.2

Summary of Results

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

N: cwt per acre	Time of application						Mean	
	S	E	L	$\frac{1}{2}S\frac{1}{2}E$	$\frac{1}{2}S\frac{1}{2}L$	$\frac{1}{2}E\frac{1}{2}L$		$\frac{1}{3}S\frac{1}{3}E\frac{1}{3}L$
Great Knott III, Rothamsted								
	(± 1.94)						(± 1.29)	(± 0.64)
None							8.5 ⁽¹⁾	
0.3	19.4	16.1	16.4	14.5	13.8	21.4	13.9	16.2
0.6	24.6	21.9	13.4	16.4	24.1	17.6	21.6	20.2
0.9	20.3	22.2	18.5	22.2	23.8	14.7	24.5	21.4
Mean (± 1.08)	21.4	20.1	16.1	17.7	20.6	17.9	20.0 ⁽²⁾	18.4

(1) ± 1.29 (2) ± 0.74

Mean dry matter % as harvested: 80.0

Stackyard Field, Woburn

	(± 1.48)						(± 0.99)	(± 0.49)
None							16.0 ⁽¹⁾	
0.3	27.4	24.1	21.7	24.9	23.7	22.9	25.7	24.5
0.6	31.1	26.9	26.2	31.4	25.7	25.2	29.3	28.1
0.9	31.4	29.4	26.3	32.4	29.9	31.1	31.1	30.3
Mean (± 0.83)	30.0	26.8	24.7	29.6	26.4	26.4	28.7 ⁽²⁾	26.8

(1) ± 0.99 (2) ± 0.57

Mean dry matter % as harvested: 72.5