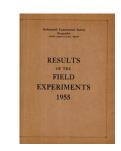
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# Yields of the Field Experiments 1955



Full Table of Content

# 55/R/CA/6 and 55/W/CA/6 Spring Wheat - Levels and Time of N

#### **Rothamsted Research**

Rothamsted Research (1956) 55/R/CA/6 and 55/W/CA/6 Spring Wheat - Levels and Time of N; Yields Of The Field Experiments 1955, pp 78 - 79 - **DOI:** https://doi.org/10.23637/ERADOC-1-175

55/Ca/6.1

#### SPRING WHEAT

Rates and times of application of nitrogen - Rothamsted (R) Great Field I and Woburn (W) Butt Close.

Design (each field): 22 treatments arranged in 4 blocks of 13 plots each, the control and 3 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 acre. Area harvested: 0.0140 acre.

Treatments: None, and all combinations of:Nitrogen: 0.3; 0.6; 0.9 cwt N per acre applied 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; ½ S, ½ E & ½ L.

Basal dressing: 1.15 cwt per acre compound fertilizer (13%  $P_2O_5$ ; 13%  $K_2O$ ) combine drilled with the seed.

Cultivations, etc.:

Great Field I (R). Ploughed: Nov - Dec 1954. Seed bed 'Nitro-Chalk' applied: Mar 31, 1955. Seed drilled at 2\frac{3}{4} bushels per acre with basal fertilizer: Apr 4. Early 'Nitro-Chalk' top dressing applied: Apr 30. Sprayed with D.N.C. 8 lb active

material at 80 gallons per acre: May 11. Late 'Nitro-Chalk' top dressing applied: May 19. Combine harvested: Sept 1.

Variety: Koga II. Previous crop: Potatoes.

Butt Close (W). Ploughed: Dec 23-28, 1954. 2 tons ground chalk per acre applied: Feb 3, 1955. Seed bed 'Nitro-Chalk' applied, seed drilled at 2\frac{3}{4} bushels per acre with basal fertilizer: Mar 22. Early 'Nitro-Chalk' top dressing applied: Apr 20. Late 'Nitro-Chalk' top dressing applied: May 16. Sprayed with MCPA amine at low volume: May 22. Combine harvested: Aug 23. Variety: Koga II. Previous crop: Potatoes.

Standard errors per plot. Grain: cwt per acre.

Great Field I (R): 2.01 cwt per acre or 4.5% (27 d.f.)

Butt Close (W): 2.87 cwt per acre or 11.1% (27 d.f.)

55/Ca/6.2

### Summary of Results

Grain: cwt per acre Rothamsted Great Field I

	S	E	Time L	of app	licati ½S½L		151 <u>1</u> 1	Mean
N: cwt per acre None 0.3 0.6 0.9	44. 1 45. 9 46. 1	42.9 45.0	(±1.52 44.5 43.7 45.7	46.0 43.7 45.8	45.9 45.8 44.3	44.9 44.1 45.9	44.1	(±0.50) 41.5 <sup>(1)</sup> 44.6 45.1 45.3
Mean (±0.84)	45.3	44.1	44.7	45.2	45.3	44.9	45.2(2)	44.7

(1) ±1.01 (2) ±0.58

Mean dry matter % as harvested: 84.5

#### Woburn Butt Close

	S	E			plicat		13S1E1L	Mean
N: cwt per acre None 0.3 0.6 0.9	26.4 32.7 33.4	21.0 29.1 25.9		21.0 28.7		22.4	20.8	(±0.72) 12.2 <sup>(1)</sup> 22.2 28.9 29.7
Mean (±1.20)	30.8	25.3	24.4	26.8	27.3	25.4	27.7(2)	25.8

(1) ±1.43 (2) ±0.83

Mean dry matter % as harvested: 84.1

## Time of application

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