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Yields of the Field Experiments 1958



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58/R/CB/4 and 58/W/CB/4 Barley - Levels and Time of N

Rothamsted Research

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58/Cb/4.1

BARLEY

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: N; N2; N3 applied as 'Nitro-Chalk'.
Times of application: All in seedbed (S); all as early top dressing (E); all as late top dressing (L); 28 & 2E; 影 & 江; 玉 & 江; 35, 远, 红. Where N,; N2; N3 = Great Knott III (R): 0.23; 0.46; 0.69 cwt N per acre.

Stackyard (W): 0.3; 0.6; 0.9 cwt N per acre.

Basal dressing: Great Knott III (R): 2 cwt compound fertilizer (16% Poos, 16% Ko) per acre combine drilled with seed. Stackyard (W): 1 cwt compound fertilizer (16% P205, 16% K20) per acre combine drilled with seed.

Cultivations, etc.: Great Knott III (R): Ploughed: Oct 28, 1957. Seedbed 'Nitro-Chalk' applied: Apr 2, 1958. Seed combine drilled at 23/4 bushels per acre: Apr 3. Early 'Nitro-Chalk' top dressing applied: Apr 25. Late 'Nitro-Chalk' top dressing applied: May 16. Sprayed with MCPA, 4 pints in 40 gallons per acre: May 20. Combine harvested: Aug 26. Variety: Herta. Previous crop: Spring wheat. Stackyard (W). Ploughed: Feb 13 to Mar 5, 1958. Seedbed 'Nitro-Chalk' applied, seed combine drilled at $2\frac{1}{2}$ bushels per acre: Mar 22. Early 'Nitro-Chalk' top dressing applied:

Apr 23. Late 'Nitro-Chalk' top dressing applied: May 16. Sprayed with MCPA, 4 pints in 40 gallons per acre: May 27. Combine harvested: Sept 1. Variety: Herta. Previous crop: Potatoes.

Standard errors per plot, Grain (at 85% dry matter). Great Knott III (R): 1.85 cwt per acre or 5.4. (27 d.f.) Stackyard (W): 1.49 cwt per acre or 4.4. (27 d.f.)

58/Cb/4.2

Summary of Results

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

N: cwt per acre	S	E	L	12S 1E	151L	起红	影號步	Mean				
Great Knott III, Rothamsted												
	(±1.39)					(±0.92)(±0.46)						
None 0.23 0.46 0.69	30.2 35.8 36.6	32.0 36.0 37.8	30 • 1 35 • 7 37 • 8	31.7 35.7 37.2	31.9 36.0 38.4	30.2 39.5 38.9	30.5 37.7 39.3	22.7 ⁽¹⁾ 30.9 36.7 38.1				
Mean (±0.77)	34.2	35.3	34.5	34.8	35.4	36.2	35.8(2)	34.3				
(1) ±0.92 (2) ±0.53												

Mean dry matter % as harvested: 75.5

Stackyard, Woburn

	and the second s	(±1.	(±0.75)(±0.37)					
None 0.3 0.6 0.9	32.1 34.6 34.0	32.3 38.2 36.1	32.4 35.2 36.1	31.6 35.4 35.9	33.6 37.5 37.4	33.4 38.5 34.8	32.5 38.5 38.3	21.6 ⁽¹⁾ 32.5 37.0 36.4
Mean (±0.62)	33.6	35.5	34.6	34.3	36.2	35.6	36.4(2)	34.3
(1) ±0.75	(2) ±0	43						

Mean dry matter % as harvested: 83.4