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Yields of the Field Experiments 1958



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58/R/CB/3 and 58/W/CB/3 Barley - Combine Drilling of N

Rothamsted Research

Rothamsted Research (1959) 58/R/CB/3 and 58/W/CB/3 Barley - Combine Drilling of N; Yields Of The Field Experiments 1958, pp 93 - 94 - DOI: https://doi.org/10.23637/ERADOC-1-181

58/Cb/3.1

BARLEY

Combine drilling of nitrogen - Rothamsted (R) Great Knott III and Woburn (W) Lansome Field 1958.

Design (each field): 4 randomized blocks of 7 plots each.

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

Treatments: None and all combinations of:Nitrogen: 0.22*(N₂); 0.54 (N₂); 0.72* (N₃) cwt N per acre.
Method of application: Broadcast as sulphate of ammonia; combine drilled as compound fertilizer:

*Note: For N, and N, on Great Knott III (R), the compound fertilizer was actually applied at the rates of 0.19 and 0.57 cwt N per acre. The broadcast dressings were corrected to these amounts.

Basal dressing per acre (each field): 0.54 cwt P205 and 0.54 cwt K20 combine drilled

- (a) as compound (16% P₂O₅, 16% K₂O) on the no nitrogen and broadcast nitrogen plots.
- (b) as compounds N1, N2, N3 on the plots receiving drilled nitrogen.

Cultivations, etc.:

Great Knott III (R). Ploughed: Oct 28, 1957. Seed combine drilled at 23/4 bushels per acre: Apr 3, 1958. Sulphate of ammonia broadcast: Apr 4. Sprayed with MCPA at 4 pints in 40 gallons per acre: May 20. Combine harvested: Aug 25. Variety: Herta. Previous crop: Spring wheat.

Lansome Field (W). Ploughed: Nov 27, 1957. Seed combine drilled at 2³/₄ bushels per acre: Apr 3, 1958. Sulphate of ammonia broadcast: Apr 8. Sprayed with MCPA at 5 pints in 40 gallons per acre: May 22. Combine harvested: Aug 27. Variety: Herta. Previous crop: Fallow.

Standard errors per plot, Grain (at 85% dry matter):
Great Knott III (R): 2.25 cwt per acre or 7.3% (18 d.f.)
Lansome Field (W): 1.79 cwt per acre or 5.8% (18 d.f.)

58/Съ/3.2

Summary of Results

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

N: cwt per acre							
None	0.22 ⁺ Bi	roadca	st 0.72*			lled 0.72*	Mean
Great Knott III, Rothamsted							
19.0	25.0	36.1	36.4 (±1.13)	25.8	37.3	37.2	31.0
Mean	dry matter	% as	harvested:	74.2			
Lansome Field, Woburn							
20.0	27.7	33.9	33.4 (±0.89)	28.0	36.5	35.0	30.6
Mean	dry matter	% as	harvested:	84.3			
+0.19	on Great	Knott	III, Rotha	msted.			