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Yields of the Field Experiments 1959

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59/R/CB/1 and 59/W/CB/1 Barley - Combine Drilling of N

Rothamsted Research

Rothamsted Research (1960) *59/R/CB/1 and 59/W/CB/1 Barley - Combine Drilling of N* ; Yields Of The Field Experiments 1959, pp 77 - 78 - DOI: <https://doi.org/10.23637/ERADOC-1-179>

59/Cb/1.2

Summary of Results

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

None	Broadcast			Combine drilled			Mean
	0.2	0.5	0.8*	0.2	0.5	0.8*	

Deacons Field, Rothamsted

14.1	22.2	28.9	37.8 (±0.84)	21.9	33.3	39.6	28.3
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Mean dry matter % as harvested: 84.3

Lansome Field, Woburn

12.7	22.4	29.4	32.5 (±0.85)	23.0	31.2	35.9	26.7
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Mean dry matter % as harvested: 85.6

*0.7 on Lansome Field, Woburn.

59/Cb/2.1

BARLEY

Concentrated fertilizers - Rothamsted (R) Deacons Field and Woburn (W)
Lansome Field 1959.

Design (each field): 4 randomized blocks of 5 plots each.

Area of each plot:

Deacons Field (R): 0.0212 acres. Area harvested: 0.0141 acres.
Lansome Field (W): 0.0186 acres. Area harvested: 0.0124 acres.

Treatments: None and all combinations of:-

Compound fertilizers: (A) 12% N; 6% P₂O₅; 6% K₂O;
(B) 20% N; 10% P₂O₅; 10% K₂O.

Rates of application in cwt per acre:

Deacons Field (R): (1) 0.3 N; 0.15 P₂O₅; 0.15 K₂O;
(2) 0.6 N; 0.30 P₂O₅; 0.30 K₂O.
Lansome Field (W): (1) 0.35 N; 0.18 P₂O₅; 0.18 K₂O;
(2) 0.66 N; 0.33 P₂O₅; 0.33 K₂O.

Note: All fertilizers were combine drilled with the seed.

Basal dressing: None.

Cultivations, etc.:-

Deacons Field (R): Ploughed: Nov 17-24, 1958. Seed combine drilled
at 2 bushels per acre: Mar 20, 1959. Sprayed with TCB/MCPA at
4 pints in 40 gallons per acre: May 6. Combine harvested:
Aug 6. Variety: Proctor. Previous crop: Winter wheat.
Lansome Field (W): Ploughed: Nov 5, 1958. Seed combine drilled at
3 bushels per acre: Mar 20, 1959. Combine harvested: Aug 17.
Variety: Herta. Previous crop: Barley.

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

Deacons Field (R): 1.51 cwt per acre or 5.2% (12 d.f.)
Lansome Field (W): 1.36 cwt per acre or 5.4% (12 d.f.)

Note: Plant counts at germination were made.