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# Yields of the Field Experiments 1957



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## 57/R/CB/5 and 57/W/CB/5 Barley - Combine Drilling of N

#### **Rothamsted Research**

Rothamsted Research (1958) *57/R/CB/5 and 57/W/CB/5 Barley - Combine Drilling of N*; Yields Of The Field Experiments 1957, pp 83 - 84 - **DOI:** https://doi.org/10.23637/ERADOC-1-177

57/Cb/5.1

#### BARLEY

Combine drilling of nitrogen - Rothamsted (R) Little Hoos and Woburn (W)
Lansome Field 1957.

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 (N<sub>1</sub>); 0.54 (N<sub>2</sub>); 0.68 (N<sub>3</sub>) cwt N per acre.
Method of application: Broadcast as sulphate of ammonia; combine
drilled as compound fertilizer:

N<sub>1</sub>: 5% N, 12½ P<sub>2</sub>0<sub>5</sub>, 12½ K<sub>2</sub>0 N<sub>2</sub>: 8% N, 8% P<sub>2</sub>0<sub>5</sub>, 8% K<sub>2</sub>0 N<sub>3</sub>: 12% N, 9% P<sub>2</sub>0<sub>5</sub>, 9% K<sub>2</sub>0

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

- (a) as compound 16% P<sub>2</sub>0<sub>5</sub>, 16% K<sub>2</sub>0 on the no nitrogen and broadcast nitrogen plots.
- (b) as compounds N1, N2, N3 on the plots receiving drilled nitrogen.

Cultivations, etc.:
Little Hoos (R). Ploughed: Oct 12, 1956 and Jan 23, 1957. Seed combine drilled at 2½ bushels per acre: Apr 1. Sulphate of ammonia broadcast: Apr 3. Sprayed with MCPA at 2 pints in 40 gallons per acre: May 30. Combine harvested: Aug 31. Variety: Herta. Previous crop: Wheat and barley.

Lansome Field (W). Ploughed: Jan 28 - Feb 17, 1957. Sulphate of ammonia broadcast, seed combine drilled at 2½ bushels per acre:

Mar 23. Sprayed with MCPP at 6 pints in 40 gallons per acre:

May 20. Combine harvested: Aug 20. Variety: Herta. Previous crop: Potatoes.

Standard errors per plot, Grain (at 85% dry matter):
Little Hoos (R): 2.06 cwt per acre or 7.2% (18 d.f.)
Lansome Field (W): 2.17 cwt per acre or 7.7% (18 d.f.)

57/Cb/5.2

### Summary of Results

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

None		3roadcas 0.54		0,22	mbine dr	illed 0.68	Mean
		Li	ttle Hoo	s, Rotham	sted		
20.6	26.1	31.1	31.9	27.4	30.0	32.0	28.4
			(±1.03)				

Mean dry matter % as harvested: 83.9

Mean dry matter % as harvested: 82.2