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Yields of the Field Experiments 1955

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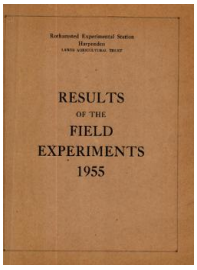

55/R/CB/5 Barley - Varieties and N

Rothamsted Research

Rothamsted Research (1956) *55/R/CB/5 Barley - Varieties and N ;* Yields Of The Field Experiments 1955, pp 87 - 87 **- DOI: https://doi.org/10.23637/ERADOC-1-175**

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BARLEY

Varieties and levels of nitrogen - Great Field I 1955.

Design: 3 randomized blocks of 8 plots each, plots being split into 2 for the application of nitrogen.

Area of each sub plot: 0.0103 acre. Area harvested: 0.0069 acre.

Treatments: All combinations of:-
Whole plots. Varieties: Carlsberg; Herta; Maythorpe; Piroline; Plumage Archer; Proctor; Provost; Research.
Sub plots. Nitrogen: 0.23; 0.46 cwt N per acre applied as nitrochalk.

Basal dressing per acre: 1.15 cwt compound granular fertilizer (13% P_2O_5, 13% K_2O) combine drilled; 1 ton ground chalk.

Cultivations, etc.: Ploughed: Dec 29, 1954. Chalk applied: Apr 1, 1955. Nitrogen applied, seed combine drilled at 2 bushels per acre: Apr 5. Sprayed with DNOC at 6 lb per acre in 80 gallons: May 12. Combine harvested: Aug 21. Previous crop: Potatoes.

Standard errors per plot. Grain (at 85% D.M.).
Whole plot: 1.33 cwt per acre or 3.1% (14 d.f.)
Sub plot: 1.79 cwt per acre or 4.2% (16 d.f.)

Summary of Results

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

N: cwt per acre	Variety 1	2	3	4	5	6	7	8	Mean
				(±1.06)*					
0.23	43.0	48.3	44.6	48.2	37.2	46.1	41.3	41.1	43.7
0.46	42.2	45.7	43.4	44.9	36.1	44.7	38.3	39.4	41.9
Mean (±0.77)	42.6	47.0	44.0	46.6	36.7	45.4	39.8	40.2	42.8
Diff. (±1.46)	-0.8	-2.6	-1.2	-3.3	-1.1	-1.4	-3.0	-1.7	-1.8 (±0.52)

*for use in comparisons other than vertical.

Mean dry matter % as harvested: 85.3

Varieties:
1 Carlsberg
2 Herta
3 Maythorpe
4 Piroline
5 Plumage Archer
6 Proctor
7 Provost
8 Research