ROTHAMSTED RESEARCH

Yields of the Field Experiments 1955

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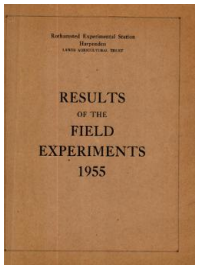

55/R/CB/3 Barley - Varieties and N (Growth Study)

Rothamsted Research

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55/Cb/3

BARLEY

Varieties and levels of nitrogen (Growth Study) - Great Field I 1955.

Design: 6 × 6 Latin square.

Area of each plot: 0.0223 acre. Area harvested: 0.0118 acre.

Treatments: All combinations of:
Varieties: Herta; Plumage Archer; Proctor.
Nitrogen: None; 0.46 cwt N per acre applied as nitrochalk.

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

Cultivations, etc.: Ploughed: Dec 29, 1954. Nitrochalk applied, seed combine drilled with placement machine at 2½ bushels per acre: Apr 2, 1955. Sprayed with DNOC at 6 lb per acre in 80 gallons: May 11. Combine harvested: Aug 22. Previous crop: Potatoes.

Standard error per plot:
Grain (at 85% D.M.): 2.45 cwt per acre or 5.0% (20 d.f.).

Records were made of the following:-
At harvest:- Shoot number, 1000 corn weight
Straw height, N analyses of grain, straw and chaff.

At intermediate samplings (at fortnightly intervals from May-August):-

Dry weight of straw and ears
Shoot number
Leaf area
Straw height.

Summary of Results

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

N: cwt per acre	Variety: Herta	Plumage Archer	Proctor	Mean
		(±1.00)		
None	48.5	43.9	51.0	47.8
0.46	55.6	40.6	52.7	49.6
Mean (±0.71)	52.0	42.3	51.8	48.7
Difference (±1.42)	+7.1	-3.3	+1.7	+1.8 (±0.82)

Mean dry matter % as harvested: 87.6

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