

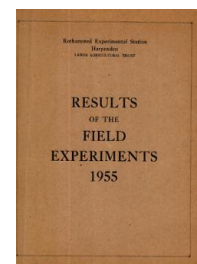
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Yields of the Field Experiments 1955

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55/R/CB/1 Barley - Seed Rates, and Levels of N

Rothamsted Research

Rothamsted Research (1956) *55/R/CB/1 Barley - Seed Rates, and Levels of N* ; Yields Of The Field Experiments 1955, pp 81 - 81 - DOI: <https://doi.org/10.23637/ERADOC-1-175>

55/Cb/1

BARLEY

Seed rates and levels of nitrogen - Great Field I 1955.

Design: 3 randomized blocks of 12 plots each.

Area of each plot: 0.0140 acre.

Treatments: All combinations of:-

Seed rates: 1; 2; 3 bushels per acre.

Nitrogen: None; 0.3; 0.6; 0.9 cwt N per acre applied as sulphate of ammonia.

Basal dressing: 1.15 cwt compound granular fertilizer (13% P₂O₅, 13% K₂O) per acre combine drilled. 1 ton ground chalk per acre.

Cultivations, etc.: Ploughed: Dec 29, 1954. Chalk and sulphate of ammonia applied: April 1, 1955. Seed combine drilled: April 2. Sprayed with D.N.O.C. at 6 lb. per acre in 80 gallons: May 11. Combine harvested: Aug 20. Variety: Proctor. Previous crop: Potatoes.

Standard error per plot:

Grain (at 85% D.M.): 2.43 cwt per acre or 5.7% (22 d.f.).

Summary of Results

Seed rate: bushels per acre	N: cwt per acre				Mean
	None	0.3	0.6	0.9	
Grain (at 85% dry matter): cwt per acre					
		(±1.40)			(±0.70)
1	41.4	44.7	41.7	42.9	42.7
2	43.3	44.6	44.7	40.7	43.3
3	41.4	42.4	43.2	41.6	42.1
Mean (±0.81)	42.1	43.9	43.2	41.7	42.7
Straw: cwt per acre					
1	27.7	33.0	30.9	32.8	31.1
2	27.7	31.9	33.0	35.3	32.0
3	25.5	29.6	33.2	36.6	31.2
Mean	27.0	31.5	32.4	34.9	31.4

Mean dry matter % as harvested, Grain: 82.6

Records of incidence of disease (Eyespot and Take-All), estimates of % area lodged and counts of ear emergence and plant, straw and ear numbers, were made.