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Yields of the Field Experiments 1954

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54/R/CB/2 Barley - Methods of Harvesting Square Plots

Rothamsted Research

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54/Cb/1

BARLEY

Seed rates and levels of nitrogen - Long Hoos V 1954.

System of replication: 3 randomized blocks of 9 plots each.

Area of each plot: 0.0112 acre.

Treatments: All combinations of:-

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

Nitrogen: 0.3; 0.6; 0.9 cwt N per acre applied as sulphate of ammonia.

Basal dressing: None.

Cultivations, etc.: Ploughed: Sept 16, 1953 and again Nov 25. Sulphate of ammonia applied, seed drilled at 3 bushels per acre: Mar 18, 1954. Sprayed with M.C.P.A. medium volume, 2½ pints per acre: May 14. Combine harvested: Sept 2. Variety: Proctor. Previous crop: Beans.

Standard error per plot:

Grain (at 85% D.M.): 1.49 cwt per acre or 3.5% (16 d.f.)

Summary of Results

N cwt per acre	Seed rates: bushels per acre			Mean
	1	2	3	
Grain (at 85% dry matter): cwt per acre				
		(±0.86)		(±0.50)
0.3	41.3	43.5	43.7	42.8
0.6	42.3	43.9	44.5	43.6
0.9	39.7	43.4	43.4	42.1
Mean (±0.50)	41.1	43.6	43.9	42.9

Mean dry matter % as harvested: 77.9

Estimates of % area lodged and counts of plant, straw and ear numbers were made. There was no Eyespot or Take-All.

54/Cb/2

BARLEY

Methods of harvesting square plots and two N levels - Great Harpenden I 1954.

System of replication: 4 randomized blocks of 4 plots each.

Area of each plot: 0.0265 acre. Area harvested: Binder - full area, Combine - 0.0225 acre.

Treatments: All combinations of:-

N: 0.3; 0.6 cwt per acre applied as Nitrochalk in seedbed.

Methods of harvesting: Binder - full area; Combine (Massey Harris 780, 10' cut) - 3 cuts each of 0.0075 acre, recorded separately.

Basal dressing: None

Cultivations, etc.: Ploughed: Nov 13, 1953. Nitrochalk applied:

Mar 23, 1954. Seed drilled at 3 bushels per acre: Mar 24.

Sprayed with M.C.P.A., low volume, 2 pints per acre: May 19.

Harvested: Binder plots - Aug 26, Combine plots - Aug 30. Variety:

Herta. Previous crop: Barley.

Standard error per plot:

Grain (at 85% D.M.): 0.988 cwt per acre or 2.8% (9 d.f.)

Estimated % S.E. (whole plot) measured by combine:-

3 cuts 2.8%

2 cuts 4.3%

1 cut 7.2%

Summary of Results

Grain (at 85% Dry Matter): cwt per acre

Methods of Harvesting	N: cwt per acre		Mean
	0.3	0.6	
	(±0.49)		(±0.35)
Binder	32.7	38.0	35.3
Combine	33.9	36.8	35.4
Mean (±0.35)	33.3	37.4	35.3

Mean dry matter % as weighed: Binder plots - 84.0; Combine plots - 82.1.