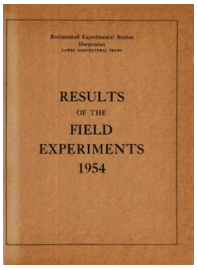
This work is licensed under a Creative Commons Attribution 4.0 International License.

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.

Yields of the Field Experiments 1954

Full Table of Content



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

Rothamsted Research

Rothamsted Research (1955) *54/R/CB/2 Barley - Methods of Harvesting Square Plots ;* Yields Of The Field Experiments 1954, pp 75 - 76 **- DOI: https://doi.org/10.23637/ERADOC-1-184**

This work is licensed under a Creative Commons Attribution 4.0 International License.

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 1	2	3	Mean
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.

This work is licensed under a Creative Commons Attribution 4.0 International License.

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 0.3	0.6	Mean
	(±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.