

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 readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1965

[Full Table of Content](#)



65/R/BJ/C/25 Intensive Winter Wheat - Winter Barley

Rothamsted Research

Rothamsted Research (1966) *65/R/BJ/C/25 Intensive Winter Wheat - Winter Barley* ; Yields Of The Field Experiments 1965, pp 213 - 214 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/c/25.1

INTENSIVE WINTER BARLEY GROWING EXPERIMENT

(BJ)

Hoosfield (Old Four Course) 1965

Design: 3 randomised blocks of 12 plots each.

Area of each plot: 0.0386. Area harvested: 0.0256.

Treatments: All combinations of:-

1. Crop sequences:

	1965	1966	1967	1968
1	B	B	B	B
2	O	B	Be	B
3	B	Be	B	B
4	Be	B	O	B

O = Winter oats, Be = Winter beans, B = Winter barley.

2. Nitrogen: To beans - none,
to barley after beans - none (N0), 0.25 (N1), 0.5 (N2)
cwt N as 'Nitro-Chalk' in spring,
to oats and remaining barley - 0.25 (N1), 0.5 (N2), 0.75
(N3) cwt N.

Basal applications: 0.5 cwt P2O5, 0.5 cwt K2O as compound
0:20:20 combine drilled to cereals, placement drilled to beans.
Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 7 pints in
3/4 gals) to barley and oats.

Cultivations, etc.: Ploughed: Oct 14, 1964.
Barley: Seed drilled at 150 lb: Oct 29, 1964. 'Nitro-Chalk'
applied: Apr 13, 1965. Sprayed: May 14. Combine
harvested: Aug 17. Variety: Pioneer.
Oats: Seed drilled at 160 lb: Oct 29, 1964. 'Nitro-Chalk'
applied: Apr 13, 1965. Sprayed: May 14. Combine
harvested: Aug 27. Variety: Padarn.
Beans: Seed drilled at 275 lb: Nov 4, 1964. Combine
harvested: Sept 28. Variety: Garton's Pedigree.
Previous crops: Spring barley 1963 and 1964.

NOTES: (1) Yields were taken only for sequences 1, 2 and 3.
(2) Estimates of eyespot (*Cercospora herpotrichoides*)
and take-all (*Ophiobolus graminis*) were made.

Standard errors per plot. Grain:
Barley: 1.92 or 9.5% (13 d.f.)
Oats: 2.22 or 9.3% (4 d.f.)

65/C/25.2

SUMMARY OF RESULTS

BARLEY GRAIN

N1	N2	N3	Mean
14.4	21.8 (±0.78)	24.7	20.3

Mean D.M. %: 85.3

OATS GRAIN

N1	N2	N3	Mean
20.9	23.4 (±1.28)	26.9	23.8

Mean D.M. %: 72.5