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

Rothamsted Research

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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 34 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