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Yields of the Field Experiments 1967

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67/R/BJ/C/12 Intensive Winter Wheat - Winter Barley

Rothamsted Research

Rothamsted Research (1968) *67/R/BJ/C/12 Intensive Winter Wheat - Winter Barley* ; Yields Of The Field Experiments 1967, pp 161 - 162 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/C/12.1

INTENSIVE WINTER BARLEY GROWING EXPERIMENT

(BJ)

Hoosfield (Old Four Course) 1967 - the third year

For details of treatments, etc. see 'Results' 65/C/25 and for previous years' results see 'Results' 65/C/25 and 66/C/16.

Area of each plot: 0.0386. Area harvested: 0.0254.

Basal applications: Basal fertiliser as previously. 23 cwt ground chalk. Weedkiller to barley and oats: Ioxynil/mecoprop (Actril C at 6 pints in 20 gals). Insecticide to beans: Demeton-s-methyl (Metasystox at 15 fluid oz in 37 gals) by hand on 2 occasions.

Cultivations, etc.: Ground chalk applied: Sept 22, 1966. Ploughed: Oct 17.

Barley: Seed drilled at 140 lb: Oct 28. 'Nitro-Chalk' applied: Apr 7, 1967. Weedkiller applied: May 9. Combine harvested: Aug 7.

Oats: Seed drilled at 145 lb: Oct 29, 1966. 'Nitro-Chalk' applied: Apr 7, 1967. Weedkiller applied: May 9. Combine harvested: Aug 7. Variety: Peniarth.

Winter beans: Seed drilled at 300 lb: Oct 29, 1966. Insecticide applied: June 27 and July 7, 1967. Combine harvested: Sept 9. Variety: Pedigree.

- NOTES: (1) Yields were taken from sequences 1, 3 (Barley) and 4 (Oats) only.
(2) Estimates of Eyespot (*Cercospora herpotrichoides*) and take-all (*Ophiobolus graminis*) were made in spring and summer.

Standard errors per plot. Grain:

Barley Sequences 1 and 3: 2.82 or 11.4% (10 d.f.)
Oats Sequence 4: 1.38 or 4.2% (4 d.f.)

67/C/12.2

SUMMARY OF RESULTS
BARLEY (1 and 3) GRAIN

Crop in 1965	Crop in 1966	N0	N1	N2	N3	Mean N1 N2
			(±1.63)			(±1.15)
B	B (1)		18.1	27.7	28.6	22.9
B	Be (3)	20.2	28.2	26.2		27.2

General mean: 24.8
Mean D.M. %: 83.9

OATS (4) GRAIN

N1	N2	N3	Mean
28.3	34.5 (±0.80)	36.5	33.1

Mean D.M. %: 83.0