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## Yields of the Field Experiments 1989

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### 89/R/B/3 Varieties - W. Barley

#### Rothamsted Research

Rothamsted Research (1990) *89/R/B/3 Varieties - W. Barley* ; Yields Of The Field Experiments 1989, pp 153 - 154 - DOI: <https://doi.org/10.23637/ERADOC-1-40>

89/R/B/3

**WINTER BARLEY**

**VARIETIES**

**Object:** To study the yields of some of the newer winter barley varieties and to compare them with a standard and a naked oat - Great Knott I.

**Sponsors:** R. Moffitt, J.F. Jenkyn.

**Design:** 4 randomised blocks of 9 plots.

**Whole plot dimensions:** 3.0 x 10.0.

**Treatments:**

VARIETY	Varieties and crops:
HALCYO B	Halcyon, barley
IGRI B	Igri, barley
MAGIE B	Magie, barley (duplicated)
MG S600 B	Magie with 'Seamac 600' spray
MARINKA B	Marinka, barley
VIXEN B	Vixen, barley
IMAGE SO	Image, standard oat
KYNON NO	Kynon, naked oat

**NOTE:** The 'Seamac 600' was applied at 5.6 l in 220 l on 28 Apr, 1989.

**Basal applications:** Manures: Magnesian limestone at 5.0 t. 'Nitram' at 360 kg. Weedkillers: Glyphosate at 0.27 kg in 200 l. Isoproturon at 2.5 kg in 200 l. Metsulfuron-methyl at 6.0 g with fluroxypyr at 0.20 kg in 200 l. Growth regulators: 2-chloroethylphosphonic acid at 0.31 kg and mepiquat chloride at 0.61 kg with a wetting agent ('Citowett' at 0.08 l) in 200 l.

**Seed:** Barley varieties sown at 150 kg.  
Oat varieties sown at 190 kg.

**Cultivations, etc.:-** Magnesian limestone applied: 6 Sept, 1988. Rotary cultivated: 14 Sept. Glyphosate applied: 19 Oct. Heavy spring-tine cultivated: 29 Oct. Rotary harrowed, seed sown: 2 Nov. Isoproturon applied: 16 Nov. N applied, growth regulators with wetting agent applied: 19 Apr, 1989. Metsulfuron-methyl with fluroxypyr applied: 26 Apr. Combine harvested: 21 July (barley), 25 July (oats).  
Previous crops: S. barley 1987, w. wheat 1988.

**NOTES:** (1) Samples were taken for disease assessment in June.  
(2) Malting quality was assessed on the grain from some treatments.

89/R/B/3

GRAIN TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

VARIETY	
HALCYO B	5.88
IGRI B	5.06
MAGIE B	5.38
MG S600 B	5.38
MARINKA B	5.47
VIXEN B	2.58
IMAGE SO	3.99
KYNON NO	2.40
Mean	4.61

\*\*\* Standard errors of differences of means \*\*\*

VARIETY	
0.223	min.rep
0.193	max-min

VARIETY	
max-min	MAGIE B v any of the remainder
min.rep	any of the remainder

\*\*\*\*\* Stratum standard errors and coefficients of variation \*\*\*\*\*

Stratum	d.f.	s.e.	cv%
BLOCK.WP	25	0.315	6.8
GRAIN MEAN DM%	83.7		
PLOT AREA HARVESTED	0.00204		