

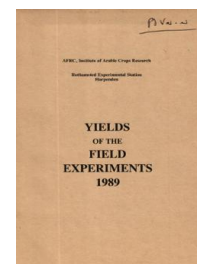
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89/R/B/3 Varieties - W. Barley

Rothamsted Research

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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		