

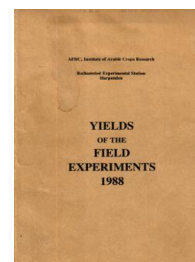
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# Yields of the Field Experiments 1988

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## 88/R/B/5 Varieties - W. Barley

### Rothamsted Research

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88/R/B/5

## WINTER BARLEY

### VARIETIES

**Object:** To study the yields of some of the newer winter barley varieties  
- Great Harpenden II.

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

**Design:** 4 randomised blocks of 12 plots.

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

#### Treatments:

VARIETY	Varieties:
GERBEL	Gerbel (6 row)
IGRI	Igri
KASKADE	Kaskade
MAGIE	Magie
MG 33+0	Magie with 33 kg extra N applied on 17 Nov, 1987
MG 0+25	Magie with 25 kg extra N applied on 18 Feb, 1988
MG 33+25	Magie with extra N applied on both the above dates
MG S600	Magie with 'Seamac 600' spray
MARINKA	Marinka
PIRATE	Pirate (6 row)
PLAISANT	Plaisant (6 row)
VIXEN	Vixen

**NOTES:** (1) The extra N for **VARIETY** MG was applied as urea.

(2) The 'Seamac 600' was applied at 5.6 l in 220 l on 11 Apr, 1988.

**Basal applications:** Manures: 'Nitram' at 580 kg. Weedkillers: Glyphosate at 0.27 kg in 200 l. Chlortoluron at 3.5 kg in 200 l. Fluroxypyr at 0.20 kg with clopyralid at 0.07 kg and bromoxynil at 0.34 kg in 200 l. Fungicides: Prochloraz at 0.40 kg and carbendazim at 0.15 kg in 200 l. Propiconazole at 0.12 kg and tridemorph at 0.25 kg in 200 l. Growth regulators: Mepiquat chloride at 0.61 kg and 2-chloroethylphosphonic acid at 0.31 kg with a wetting agent ('Cittowet' at 0.08 l) in 200 l.

**Seed:** Varieties, sown at 150 kg.

**Cultivations, etc.:-** Cultivated by rotary grubber: 18 Aug, 1987. Glyphosate applied: 18 Sept. Rotary harrowed: 29 Sept. Rotary harrowed, seed sown: 30 Sept. Chlortoluron applied: 6 Nov. N applied: 18 Mar, 1988. Prochloraz and carbendazim applied: 21 Apr. Remaining weedkillers applied: 25 Apr. Growth regulators with wetting agent applied: 26 Apr. Remaining fungicides applied: 26 May. Combine harvested: 3 Aug. Previous crops: W. wheat 1986, w. barley 1987.

**NOTES:** (1) Samples were taken for disease assessment in June.

(2) Malting quality was assessed on the grain from some treatments.

88/R/B/5

GRAIN TONNES/HECTARE

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

VARIETY	
GERBEL	7.21
IGRI	6.95
KASCADE	6.18
MAGIE	5.99
MG 33+0	6.01
MG 0+25	6.60
MG 33+25	6.48
MG S600	6.26
MARINKA	7.32
PIRATE	7.66
PLAISANT	6.72
VIXEN	7.42
Mean	6.73

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

VARIETY  
0.334

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.473	7.0
GRAIN MEAN DM%	85.3		
PLOT AREA HARVESTED	0.00203		