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# Yields of the Field Experiments 1987

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

### Rothamsted Research

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87/R/B/5

WINTER BARLEY

VARIETIES

Object: To study the yields of some of the newer winter barley varieties  
- Summerdells II.

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

Design: 4 randomised blocks of 11 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

VARIETY	Varieties:
GERBEL	Gerbel
IGRI	Igri
KASKADE	Kaskade
MAGIE	Magie
MG 26+0	Magie with 26 kg extra N applied on 17 Nov, 1986
MG 0+25	Magie with 25 kg extra N applied on 16 Feb, 1987
MG 26+25	Magie with extra N applied on both the above dates
MG S600	Magie with 'Seamac 600' spray
MARINKA	Marinka
PIRATE	Pirate
PLAISANT	Plaisant

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 14 Apr, 1987.

Basal applications: Manures: 'Nitram' at 450 kg. Weedkillers: Paraquat at 0.60 kg ion in 200 l. Isoproturon at 2.5 kg with clopyralid at 0.07 kg, bromoxynil at 0.34 kg and mecoprop at 2.5 kg in 200 l. Fungicides: Prochloraz at 0.40 kg and carbendazim at 0.15 kg in 200 l. Triadimenol at 0.12 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.: - Heavy spring-tine cultivated, disced: 18 Aug, 1986. Paraquat applied: 10 Sept. Rotary harrowed, seed sown: 22 Sept. N applied: 19 Mar, 1987. Remaining weedkillers applied: 16 Apr. Prochloraz and carbendazim applied, growth regulators with the wetting agent applied: 27 Apr. Triadimenol applied: 27 May. Combine harvested: 7 Aug. Previous crops: S. barley 1985, w. barley 1986.

NOTE: Leaf samples were taken for disease assessment in June.

87/R/B/5

GRAIN TONNES/HECTARE

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

VARIETY	
GERBEL	8.32
IGRI	7.29
KASKADE	7.42
MAGIE	7.95
MG 26+0	8.28
MG 0+25	7.72
MG 26+25	8.58
MG S600	7.77
MARINKA	8.19
PIRATE	7.87
PLAISANT	7.69
Mean	7.92

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

Table	VARIETY
s.e.d.	0.197

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	30	0.279	3.5
GRAIN MEAN DM%	85.2		
PLOT AREA HARVESTED	0.00204		