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# Yields of the Field Experiments 1987

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ROTHAMSTED RESEARCH  
ROTHAMSTED EXPERIMENTAL STATION  
ROTHAMSTED  
Herts  
SG2 0BT  
UK  
Tel: +44 (0)1493 734111  
Fax: +44 (0)1493 734112  
Email: [enquiries@ Rothamsted.ac.uk](mailto:enquiries@ Rothamsted.ac.uk)  
Website: <http:// Rothamsted.ac.uk>  
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## 87/R/B/6 and 87/W/B/6 Varieties and N - S. Barley

### Rothamsted Research

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87/R/B/6 and 87/W/B/6

SPRING BARLEY

VARIETIES AND N

Object: To study the yields of some of the newer varieties of s. barley at two rates of nitrogen - Rothamsted (R), Highfield IV and Woburn (W), Lansome II.

Sponsor: R. Moffitt.

Design: 3 randomised blocks of 2 plots split into 10.

Sub-plot dimensions: (R) 3.0 x 10.0. (W) 4.0 x 9.0.

Treatments: All combinations of:-

Whole plots

1. N		Nitrogen fertilizer:
(R)	(W)	
125	80	125 kg N on 20 Mar, 1987 (R), 80 kg N on 5 May (W)
125+46	120	125 kg N on 20 Mar plus 46 kg N on 29 Apr (R), 120 kg N on 5 May (W)

Sub plots

2. VARIETY	Varieties:
BLENHEIM	Blenheim
CAMEO	Cameo
CORNICHE	Corniche
DIGGER	Digger
DOUBLET	Doublet
KLAXON	Klaxon
KLAXON B	Klaxon with 'Baytan' seed dressing
NATASHA	Natasha
REGATTA	Regatta
TRIUMPH	Triumph

NOTE: Nitrogen fertilizer was applied as 'Nitram'.

Basal applications:

Highfield IV (R): Weedkillers: Clopyralid at 0.07 kg, bromoxynil at 0.34 kg with mecoprop at 2.5 kg in 200 l. Fungicide: Tridemorph at 0.52 kg in 200 l.

Lansome II (W): Fungicides: Tridemorph at 0.19 kg with propiconazole at 0.12 kg in 200 l. Desiccant: Diquat at 0.60 kg ion applied with a wetting agent ('Agral' at 0.10 l) in 200 l.

Seed: Highfield IV (R), and Lansome II (W): Sown at 160 kg.

Cultivations, etc.:-

Highfield IV (R): Ploughed: 5 Nov, 1986. Spring-tine cultivated, rotary harrowed, seed sown, harrowed: 20 Mar, 1987. Rolled: 21 Mar. Weedkillers applied: 6 May. Fungicide applied: 23 June. Combine harvested: 20 Aug. Previous crops: Potatoes 1985, w. wheat 1986.

87/R/B/6 and 87/W/B/6

Cultivations, etc.:-

Lansome II (W): Deep-tine cultivated: 30 Jan, 1987. Spike harrowed with crumbler attached, seed sown: 30 Mar. Fungicides applied: 3 July. Desiccant applied: 21 Aug. Combine harvested: 10 Sept. Previous crops: W. oats 1985, potatoes 1986.

87/R/B/6 HIGHFIELD IV (R)

GRAIN TONNES/HECTARE

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

	N	125	125+46	Mean
VARIETY				
BLLENHEIM		6.20	6.59	6.39
CAMEO		6.99	7.63	7.31
CORNICHE		6.61	6.62	6.62
DIGGER		5.99	7.96	6.97
DOUBLET		6.81	7.52	7.17
KLAXON		6.24	6.55	6.39
KLAXON B		6.10	7.19	6.64
NATASHA		6.67	6.85	6.76
REGATTA		7.55	7.58	7.57
TRIUMPH		5.67	6.67	6.17
Mean		6.48	7.12	6.80

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

Table	VARIETY	N*
s.e.d.	0.270	0.382

\* Within the same level of N only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	36	0.467	6.9

GRAIN MEAN DM% 86.7

SUB PLOT AREA HARVESTED 0.00204

87/W/B/6 LANSOME II (W)

GRAIN TONNES/HECTARE

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

	N	80	120	Mean
VARIETY				
BLENHEIM		4.92	4.78	4.85
CAMEO		5.00	4.22	4.61
CORNICHE		5.17	4.63	4.90
DIGGER		5.94	6.68	6.31
DOUBLET		4.85	5.23	5.04
KLAXON		5.39	4.44	4.91
KLAXON B		5.02	4.86	4.94
NATASHA		4.57	4.22	4.39
REGATTA		5.43	5.17	5.30
TRIUMPH		5.26	4.03	4.64
Mean		5.15	4.83	4.99

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

Table	VARIETY	N*
s.e.d.	0.236	0.334

\* Within the same level of N only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	36	0.409	8.2
GRAIN MEAN DM%	85.5		
SUB PLOT AREA HARVESTED	0.00247		