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## Yields of the Field Experiments 1988

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### 88/R/B/9 and 88/W/B/9 Varieties and N - S. Barley

#### Rothamsted Research

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88/R/B/9 and 88/W/B/9

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 V and Woburn (W) Horsepool Lane Close E.

**Sponsor:** R. Moffitt.

**Design:** 3 (R) and 2 (W) randomised blocks of 2 plots split into 13.

**Sub-plot dimensions:** (R) 3.0 x 10.0. (W) 4.0 x 8.0.

**Treatments:** All combinations of:-

Whole plots

1. N Nitrogen fertilizer (kg N), as 'Nitram':

(R)	(W)
125	117
170	157

Sub plots

2. VARIETY Varieties:

BLENHEIM	Blenheim
CAMEO	Cameo
CORNICHE	Corniche
DIGGER	Digger
DOUBLET	Doublet
FERGIE	Fergie
JOLENE	Jolene
KLAXON	Klaxon
NATASHA	Natasha
PRISMA	Prisma
REGATTA	Regatta
TRIUMPH	Triumph
TRIUMPHB	Triumph + 'Baytan' seed dressing

**Basal applications:**

Highfield V (R): Manures: (0:18:36) at 690 kg. FYM at 35 t.

Weedkillers: Mecoprop at 2.4 kg with clopyralid at 0.05 kg and bromoxynil at 0.24 kg in 200 l. Glyphosate at 1.1 kg in 200 l.

Fungicides: Tridemorph at 0.52 kg in 200 l. Propiconazole at 0.12 kg and tridemorph at 0.25 kg in 200 l.

Horsepool Lane Close E (W): Weedkillers: Bromoxynil at 0.24 kg and clopyralid at 0.05 kg with mecoprop at 2.1 kg in 220 l.

Fungicide: Tridemorph at 0.52 kg in 220 l.

**Seed:** Highfield V (R): Sown at 160 kg.

Horsepool Lane Close E (W): Sown at 150 kg.

88/R/B/9 and 88/W/B/9

**Cultivations, etc.:-**

Highfield V (R): PK applied: 15 Oct, 1987. FYM applied: 15 Dec.  
 Ploughed: 18 Dec. Heavy spring-tine cultivated: 1 Mar, 1988.  
 Rolled: 8 Mar. Rotary harrowed, seed sown, harrowed: 31 Mar.  
 N treatments applied: 28 Apr. Weedkillers other than glyphosate  
 applied: 10 May. Tridemorph applied: 27 May. Propiconazole and  
 tridemorph applied: 16 June. Glyphosate applied: 9 Aug. Combine  
 harvested: 17 Aug. Previous crops: S. barley and potatoes 1986,  
 s. barley 1987.

Horsepool Lane Close E (W): Ploughed: 10 Mar. Discd twice: 29 Mar,  
 30 Mar. Spike harrowed with crumbler attached, rotary harrowed  
 with crumbler attached, seed sown: 31 Mar. N treatments applied:  
 3 May. Weedkillers applied: 17 May. Fungicide applied: 27 May.  
 Combine harvested: 22 Aug. Previous crops: Potatoes 1986,  
 s. barley 1987.

88/R/B/9 HIGHFIELD V (R)

**GRAIN TONNES/HECTARE**

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

	N	125	170	Mean
<b>VARIETY</b>				
BLENHEIM		7.12	6.96	7.04
CAMEO		7.30	7.03	7.16
CORNICHE		6.03	6.26	6.14
DIGGER		6.20	6.56	6.38
DOUBLET		6.35	6.58	6.46
FERGIE		6.33	5.51	5.92
JOLENE		6.10	6.65	6.37
KLAXON		6.45	6.39	6.42
NATASHA		6.36	6.77	6.57
PRISMA		6.05	6.26	6.15
REGATTA		6.68	6.29	6.49
TRIUMPH		6.49	6.30	6.39
TRIUMPHB		6.05	5.74	5.90
Mean		6.42	6.41	6.41

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

VARIETY	N*
0.304	0.430

\* Within the same level of N only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	48	0.527	8.2
GRAIN MEAN DM%	82.3		
SUB PLOT AREA HARVESTED	0.00204		

88/W/B/9 HORSEPOOL LANE CLOSE E (W)

GRAIN TONNES/HECTARE

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

	N	117	157	Mean
<b>VARIETY</b>				
BLENHEIM		4.86	4.97	4.91
CAMEO		4.86	5.24	5.05
CORNICHE		4.85	4.91	4.88
DIGGER		4.69	4.99	4.84
DOUBLET		4.66	4.70	4.68
FERGIE		4.50	4.91	4.71
JOLENE		4.82	4.78	4.80
KLAXON		4.71	5.53	5.12
NATASHA		4.33	4.29	4.31
PRISMA		3.79	3.30	3.55
REGATTA		5.06	4.63	4.84
TRIUMPH		4.95	4.26	4.61
TRIUMPHB		4.57	3.83	4.20
Mean		4.66	4.64	4.65

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

VARIETY	N*
0.337	0.476

\* Within the same level of N only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	24	0.476	10.2
GRAIN MEAN DM%	81.4		
SUB PLOT AREA HARVESTED	0.00220		