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# Yields of the Field Experiments 1986

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## 86/R/B/5 and 86/W/B/5 Varieties and N - S. Barley

### Rothamsted Research

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86/R/B/5 and 86/W/B/5

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), White Horse I and Woburn (W), Butt Close.

Sponsor: R. Moffitt.

Design: 3 randomised blocks of 2 plots split into 8.

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

Treatments: All combinations of:-

Whole plots

1. N Nitrogen fertilizer:

(R)	(W)	
130	125	130 kg N on 26 Mar, 1986 (R), 125 kg N on 11 Apr (W)
130+40	125+40	As above plus 40 kg N on 7 May (R), 30 Apr (W)

Sub plots

2. VARIETY Varieties:

CAMEO  
CORNICHE  
DOUBLET  
KLAXON  
NATASHA  
REGATTA  
TRIUMPH  
VISTA

NOTE: Nitrogen fertilizer was applied as 'Nitram' except for the first application at Woburn which was contained in the basal (20:10:10).

Basal applications:

White Horse I (R): Manures: (0:18:36) at 690 kg. Weedkillers: Clopyralid at 0.05 kg with bromoxynil octanoate at 0.24 kg and mecoprop at 2.1 kg applied with the fungicide in 200 l. Fungicide: Tridemorph at 0.52 kg.

Butt Close (W): Manures: (20:10:10) at 630 kg. Weedkillers: Clopyralid at 0.05 kg with bromoxynil octanoate at 0.24 kg and mecoprop at 1.8 kg applied with the fungicide in 250 l. Fungicide: Tridemorph at 0.52 kg.

Seed: White Horse I (R), and Butt Close (W): Sown at 160 kg.

86/R/B/5 and 86/W/B/5

Cultivations, etc.:-

White Horse (R): PK applied: 11 Nov, 1985. Ploughed: 16 Dec.

Spring-tine cultivated: 28 Apr, 1986. Rotary harrowed, seed sown: 30 Apr. Rolled: 2 May. Weedkillers and fungicide applied: 2 June. Combine harvested: 6 Sept. Previous crops: W. oats 1984, w. wheat 1985.

Butt Close (W): Ploughed: 23 Dec, 1985. NPK applied: 11 Apr, 1986.

Spike harrowed with crumbler attached, seed sown: 1 May. Weedkillers and fungicide applied: 30 May. Combine harvested: 29 Aug. Previous crops: S. barley 1984 and 1985.

NOTE: Because of rabbit damage at Woburn the yields from two plots were not taken, those with treatment combinations,

VARIETY	NATASHA	CAMEO
N	125+40	125+40

Estimated values were used in the analysis.

86/R/B/5 WHITE HORSE I (R)

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

	N	130	130+40	MEAN
VARIETY				
CAMEO		6.58	6.64	6.61
CORNICHE		4.69	5.62	5.15
DOUBLET		6.25	6.26	6.26
KLAXON		6.34	6.64	6.49
NATASHA		5.75	6.03	5.89
REGATTA		6.81	6.98	6.90
TRIUMPH		6.02	6.12	6.07
VISTA		6.02	6.14	6.08
MEAN		6.06	6.30	6.18

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

TABLE	VARIETY	N*
		VARIETY
-----		
SED	0.145	0.205

\* WITHIN THE SAME LEVEL OF N ONLY

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

STRATUM	DF	SE	CV%
BLOCK.WP.SP	28	0.251	4.1

GRAIN MEAN DM% 83.0

SUB PLOT AREA HARVESTED 0.00204

86/W/B/5 BUTT CLOSE (W)

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

	N	125	125+40	MEAN
VARIETY				
CAMEO		3.98	3.99	3.98
CORNICHE		3.71	3.39	3.55
DOUBLET		3.68	3.52	3.60
KLAXON		4.57	4.04	4.30
NATASHA		4.15	3.86	4.00
REGATTA		4.16	4.16	4.16
TRIUMPH		4.47	3.84	4.16
VISTA		3.74	3.82	3.78
MEAN		4.06	3.83	3.94

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

TABLE	VARIETY	N*
		VARIETY
-----		
SED	0.253	0.357

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

STRATUM	DF	SE	CV%
BLOCK.WP.SP	26	0.438	11.1
GRAIN MEAN DM%	80.1		
SUB PLOT AREA HARVESTED	0.00275		