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## Yields of the Field Experiments 1990

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### 90/R/B/4 Varieties and N - S. Barley

#### Rothamsted Research

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90/R/B/4

**SPRING BARLEY**

**VARIETIES AND N**

**Object:** To compare the quality, yield and dormancy of two varieties of s. barley at two rates of nitrogen - Long Hoos I/II.

**Sponsors:** D.G. Christian, R. Moffitt.

**Design:** 3 randomised blocks of 4 plots.

**Whole plot dimensions:** 3.0 x 15.0.

**Treatments:** All combinations of:-

Whole plots

1. **VARIETY** Varieties:

KLAXON  
TRIUMPH

2. **N** Nitrogen fertilizer (kg N), as 'Nitram' on 8 Mar, 1990:

100  
140

**Basal applications:** Weedkillers: Bromoxynil at 0.20 kg, ioxynil at 0.20 kg and mecoprop at 1.6 kg with the fungicide in 200 l.  
Fungicide: Fenpropimorph at 0.75 kg.

**Seed:** Varieties, dressed triadimenol and fuberidazole, sown at 160 kg.

**Cultivations, etc.:-** Ploughed: 2 Nov, 1989. Spring-tine cultivated, rotary harrowed, seed sown: 8 Mar, 1990. Weedkillers applied with the fungicide: 14 May. Combine harvested: 14 Aug. Previous crops: S. beans 1988, sunflowers 1989.

**NOTES:** (1) Crop samples were taken from June to maturity to measure shoot numbers, dry weights and nitrogen uptakes.  
(2) Ear samples were taken from June to maturity for measurements of grain growth and assessment of grain dormancy.  
(3) Components of yield were measured at maturity.

90/R/B/4

GRAIN TONNES/HECTARE

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

	N	100	140	Mean
<b>VARIETY</b>				
KLAXON		5.37	5.73	5.55
TRIUMPH		5.24	5.51	5.38
Mean		5.30	5.62	5.46

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

VARIETY	N	VARIETY
		N
0.068	0.068	0.096

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.118	2.2
GRAIN MEAN DM%	88.6		
PLOT AREA HARVESTED	0.00204		