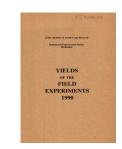
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# Yields of the Field Experiments 1990



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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:  $3.0 \times 15.0$ .

Treatments: All combinations of:-

Whole plots

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
VARIETY			
KLAXON	5.37	5.73	5.55
TRIUMPH	5.24	5.51	5.38
Mean	5 30	5 62	E 16

\*\*\* 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