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89/R/B/7 Varieties and N - S. Barley

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89/R/B/7

SPRING BARLEY

VARIETIES AND N

Object: To compare the quality, yield and dormancy of two varieties of s. barley at two rates of nitrogen - Bones Close.

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
NATASHA

2. **N** Nitrogen fertilizer (kg N), as 'Nitram' on 29 Mar, 1989:

100
140

Basal applications: Weedkillers: Mecoprop at 1.6 kg, bromoxynil at 0.20 kg and ioxynil at 0.20 kg in 200 l.

Seed: Varieties, sown at 160 kg.

Cultivations, etc.:- Ploughed: 17 Nov, 1988. Rotary harrowed: 28 Mar, 1989. Rotary harrowed, seed sown: 29 Mar. Weedkillers applied: 17 May. Combine harvested: 15 Aug. Previous crops: Potatoes 1987, s. barley 1988.

NOTES: (1) Plants were sampled in mid-June and early August to measure total dry matter and N.
(2) From late June until maturity ears were sampled fortnightly from certain plots, to measure grain growth, N content, grain viability and dormancy.
(3) Volunteer plants were assessed in October after sowing and before emergence.
(4) Ears of volunteers were counted at crop anthesis.
(5) Percentage contamination of harvested grain was measured.

89/R/B/7

GRAIN TONNES/HECTARE

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

	N	100	140	Mean
VARIETY				
KLAXON		3.24	3.16	3.20
NATASHA		3.05	3.14	3.10
Mean		3.15	3.15	3.15

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

VARIETY	N	VARIETY	N
0.198	0.198	0.281	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.344	10.9

GRAIN MEAN DM% 81.9

PLOT AREA HARVESTED 0.00204