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84/R/B/7 and 84/W/B/7 Varieties and N - S. Barley

Rothamsted Research

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84/R/B/7 and 84/W/B/7

SPRING BARLEY

VARIETIES AND N

Object: To study the yields of some of the newer varieties of s. barley at three rates of nitrogen - Rothamsted (R), Stubbings and Woburn (W), Lansome II.

Sponsor: R. Moffitt.

Design: 2 randomised blocks of 3 plots split into 6.

Whole plot dimensions: (R) 33 x 10.0. (W) 32 x 10.0.

Treatments: All combinations of:-

Whole plots

1. N Nitrogen fertilizer (kg N) as 'Nitro-Chalk':

75
113
150

Sub plots

2. VARIETY Varieties:

APEX
ATEM
DELTA
KLAXON
KYM
TRIUMPH

Basal applications:

Stubbings (R): Weedkillers: Glyphosate at 1.4 kg in 250 l.
3, 6-dichloropicolinic acid at 0.07 kg with bromoxynil octanoate at 0.34 kg and mecoprop at 2.5 kg applied with the fungicide in 250 l.
Fungicide: Tridemorph at 0.52 kg.

Lansome II (W): Manures: (0:18:36) at 1000 kg. Weedkillers: Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 3.5 l) applied with the fungicide in 250 l. Fungicide: Tridemorph at 0.52 kg.

Seed: Stubbings (R), and Lansome II (W): Sown at 160 kg.

84/R/B/7 and 84/W/B/7

Cultivations, etc.:-

Stubbings (R): Glyphosate applied: 5 Oct, 1983. Ploughed: 1 Dec.
 Spring-tine cultivated: 10 Mar, 1984. Test N applied: 15 Mar.
 Spring-tine cultivated: 16 Mar. Rotary harrowed, seed sown: 17 Mar.
 3, 6-dichloropicolinic acid with bromoxynil octanoate and mecoprop
 with fungicide applied: 23 May. Combine harvested: 20 Aug. Previous
 crops: Potatoes 1982, s. barley 1983.
 Lansome II (W): PK applied: 4 Oct, 1983. Ploughed: 5 Dec. Spring-tine
 cultivated with crumbler attached, seed sown: 20 Mar, 1984. Test N
 applied: 16 Apr. Weedkillers with fungicide applied: 31 May.
 Combine harvested: 15-17 Aug. Previous crops: Potatoes 1982,
 w. wheat 1983.

84/R/B/7

GRAIN TONNES/HECTARE

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

N	75	113	150	MEAN
VARIETY				
APEX	7.60	8.12	8.82	8.18
ATEM	7.70	8.43	8.52	8.22
DELTA	8.76	9.30	9.13	9.07
KLAXON	8.22	8.87	8.78	8.62
KYM	7.37	8.42	8.06	7.95
TRIUMPH	6.97	7.24	7.43	7.21
MEAN	7.77	8.40	8.46	8.21

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

TABLE	VARIETY	N* VARIETY
SED	0.171	0.297

* WITHIN THE SAME LEVEL OF N ONLY

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	15	0.297	3.6

GRAIN MEAN DM% 88.6

SUB PLOT AREA HARVESTED 0.00204

84/W/B/7

GRAIN TONNES/HECTARE

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

	N	75	113	150	MEAN
VARIETY					
APEX		5.53	5.88	5.35	5.59
ATEM		4.99	5.68	4.48	5.05
DELTA		5.46	4.91	5.14	5.17
KLAXON		5.14	5.88	5.52	5.51
KYM		5.11	6.17	5.45	5.58
TRIUMPH		5.42	5.70	5.14	5.42
MEAN		5.27	5.70	5.18	5.38

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

TABLE	VARIETY	N VARIETY
SED	0.535	0.926

* WITHIN THE SAME LEVEL OF N ONLY

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	15	0.926	17.2

GRAIN MEAN DM% 84.8

SUB PLOT AREA HARVESTED 0.00275