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85/R/B/5 and 85/W/B/5 Varieties and N - S. Barley

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85/R/B/5 and 85/W/B/5

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), Summerdells II and Woburn (W), Lansome III.

Sponsor: R. Moffitt.

Design: 2 randomised blocks of 3 plots split into 9(R), into 8(W).

Whole plot dimensions: (R) 51 x 10.0. (W) 44 x 10.0.

Treatments: All combinations of:-

Whole plots

1. N Nitrogen fertilizer (kg N) as 'Nitro-Chalk' (27.5% N):

75
113
150

Sub plots

2. VARIETY Varieties:

APEX
ATEM
CASINO
DELTA
DOUBLET
NATASHA
SCRI 8313
TRIUMPH
VISTA

NOTE: SCRI 8313 was omitted at Woburn.

Basal applications:

Summerdells II (R): Weedkillers: Clopyralid at 0.05 kg with bromoxynil octanoate at 0.24 kg and mecoprop at 1.8 kg with the fungicide in 200 l. Fungicide: Tridemorph at 0.52 kg.

Lansome III (W): Weedkillers: Clopyralid at 0.07 kg with bromoxynil octanoate at 0.34 kg and mecoprop at 2.1 kg with the fungicide in 250 l. Fungicide: Tridemorph at 0.52 kg.

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

Cultivations, etc.:-

Summerdells II (R): Ploughed: 30 Oct, 1984. Spring-tine cultivated: 14 Mar, 1985. Test N applied, rotary harrowed, seed sown: 15 Mar. Weedkillers and fungicide applied: 16 May. Combine harvested: 21 Aug. Previous crops: Potatoes 1983, w. wheat 1984.

85/R/B/5 and 85/W/B/5

Cultivations, etc.:-

Lansome III (W): Discd: 14 Sept, 1984. Ploughed: 30 Nov.
 Spring-tine cultivated with crumbler attached, rotary harrowed,
 seed sown: 19 Mar, 1985. Test N applied: 17 Apr. Weedkillers and
 fungicide applied: 17 May. Combine harvested: 29 Aug. Previous
 crops: W. wheat 1983, s. barley 1984.

85/R/B/5 SUMMERDELLS II (R)

GRAIN TONNES/HECTARE

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

VARIETY	N	75	113	150	MEAN
APEX		6.56	7.10	7.52	7.06
ATEM		6.72	7.32	7.21	7.08
CASINO		7.18	7.89	7.96	7.68
DELTA		7.16	7.86	7.81	7.61
DOUBLET		6.89	8.16	8.47	7.84
NATASHA		6.32	7.41	8.01	7.25
SCRI 8313		6.79	7.46	7.66	7.30
TRIUMPH		7.17	7.91	8.14	7.74
VISTA		6.97	7.78	7.86	7.53
MEAN		6.86	7.65	7.85	7.45

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

TABLE	N	VARIETY	N
			VARIETY
-----			-----
SED	0.056	0.087	0.152
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:			
N			0.150

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	24	0.150	2.0
GRAIN MEAN DM%	83.5		
SUB PLOT AREA HARVESTED	0.00204		

85/W/B/5 LANSOME III (W)

GRAIN TONNES/HECTARE

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

	N	75	113	150	MEAN
VARIETY					
APEX		5.95	6.65	6.59	6.40
ATEM		6.24	6.82	7.31	6.79
CASINO		5.90	6.62	6.64	6.39
DELTA		7.33	7.01	6.81	7.05
DOUBLET		5.77	6.85	5.45	6.03
NATASHA		5.84	6.00	6.98	6.27
TRIUMPH		5.70	6.30	6.04	6.01
VISTA		5.97	7.16	7.12	6.75
MEAN		6.09	6.68	6.62	6.46

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

TABLE	N	VARIETY	N
			VARIETY

SED	0.289	0.286	0.545
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:			
N			0.495

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	21	0.495	7.7

GRAIN MEAN DM% 85.0

SUB PLOT AREA HARVESTED 0.00275