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Yields of the Field Experiments 2000

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00/R/BW/1 Hybrid Barley - W. Barley

Rothamsted Research

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00/R/BW/1

WINTER BARLEY

HYBRID BARLEY

Object: To test a new hybrid variety with different rates of nitrogen - Whittlocks.

Sponsor: C.G. Peters.

Design: 2 randomised blocks of 2 x 8 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. NITROGEN	Nitrogen kg N:		
	Early	Later	Total
R1	50	0	50
R2	50	50	100
R3	50	75	125
R4	50	100	150
R5	80	96	176
R6	80	120	200
R7	80	145	225
R8	80	170	250

2. VARIETY

N	NFC 99-1395
S	Carola

Experimental diary:

18-Aug-99 : B : : Ploughing started.
19-Aug-99 : B : : Ploughing completed.
07-Sep-99 : B : : Rolled.
01-Oct-99 : T : N : Combination drilled, NFC 99-1395, tr. Raxil S, at 200 seeds/m² with the Accord drill.
: T : S : Combination drilled, Carola, tr. Raxil S, at 200 seeds/m² with the Accord drill.
02-Oct-99 : B : : Genesis at 5.0 kg.
08-Oct-99 : B : : Genesis at 5.0 kg.
23-Nov-99 : B : : tm)Stomp 400 SC at 2.5 l in 200 l.
: B : : tm)Tolkan Turbo at 2.5 l in 200 l.
25-Nov-99 : B : : Hallmark at 100 ml in 150 l.
20-Jan-00 : T : : tm)Corbel at 0.5 l in 220 l.
: T : : tm)Fortress at 0.2 l in 220 l.
09-Mar-00 : T : R1,R2,R3,R4 : 34.5% N at 145 kg.
: T : R5,R6,R7,R8 : 34.5% N at 232 kg.
01-Apr-00 : B : : tm)Orka at 0.4 l in 200 l.
: B : : tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.
: B : : tm)Moddus at 0.2 l in 200 l.
19-Apr-00 : T : R2,R3,R4,R5,R6,R7,R8 : 34.5% N at 145, 217, 290, 277, 348, 420, 493 kg respectively.
24-Apr-00 : B : : tm)Amistar at 0.5 l in 100 l.
: B : : tm)Unix at 0.5 kg in 100 l.
07-May-00 : B : : tm)Sypex at 1.0 l in 200 l.

00/R/BW/1

Experimental diary:

07-May-00 : B : : tm)Enhance Low Foam at 80 ml in 200 l.
 29-May-00 : B : : tm)Amistar at 0.6 l in 200 l.
 : B : : tm)Punch C at 0.4 l in 200 l.
 26-Jul-00 : B : : Combine harvested.

Previous crops: W. barley 1998, w. rape 1999.

GRAIN TONNES/HECTARE

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

NITROGEN VARIETY	R1	R2	R3	R4	R5	R6	R7	R8	Mean
N	11.47	11.70	11.61	11.92	11.21	11.49	11.09	10.58	11.38
S	10.37	10.30	9.96	10.28	10.48	10.84	9.84	10.60	10.33
Mean	10.92	11.00	10.79	11.10	10.85	11.16	10.46	10.59	10.86

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

VARIETY	NITROGEN	VARIETY NITROGEN
0.202	0.404	0.572

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.572	5.3

GRAIN MEAN DM% 88.0

STRAW TONNES/HECTARE

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

NITROGEN VARIETY	R1	R2	R3	R4	R5	R6	R7	R8	Mean
N	6.47	6.34	6.76	7.78	7.36	8.27	8.13	7.85	7.37
S	6.82	6.44	5.89	6.43	6.75	5.76	6.81	6.99	6.49
Mean	6.64	6.39	6.32	7.11	7.06	7.01	7.47	7.42	6.93

STRAW MEAN DM% 64.7

PLOT AREA HARVESTED 0.00194