

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 2000

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (2001) *00/R/BW/1 Hybrid Barley - W. Barley* ; Yields Of The Field Experiments 2000, pp 143 - 144 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

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