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## Yields of the Field Experiments 2000

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### 00/R/WW/11 Seed Treatments and Nitrogen - W. Wheat

#### Rothamsted Research

Rothamsted Research (2001) *00/R/WW/11 Seed Treatments and Nitrogen - W. Wheat* ; Yields Of The Field Experiments 2000, pp 129 - 130 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/WW/11

WINTER WHEAT

SEED TREATMENTS AND NITROGEN

**Object:** To study interactions between fluquinconazole seed treatment and amounts of nitrogen fertiliser - Bones Close.

**Sponsors:** G.L. Bateman, J.F. Jenkyn, R.J. Gutteridge.

**Design:** 4 randomised blocks of (6 x 2).

**Whole plot dimensions:** 3.0 x 10.0.

**Treatments:** All combinations of:-

2. NITROGEN	Kg N:		
	Early	Later	Total
N1	50	0	50
N2	50	50	100
N3	50	100	150
N4	50	150	200
N5	50	200	250
N4+	50	150	200 + (NITROGEN and foliar fungicides; azoxystrobin and fluquinconazole applied twice)

2. SEED TRT	Seed treatment:
S	Bitertanol and fuberidazole (Sibutol)
SF	Bitertanol, fuberidazole and fluquinconazole (Sibutol and Jockey Flexi)

**Experimental diary:**

28-Sep-99 : B : : Ploughed.  
08-Oct-99 : T : S : Combination drilled, Rialto, tr. Sibutol, at 380 seeds/m<sup>2</sup> with the Accord drill.  
: T : SF : Rotary harrowed, drilled, Rialto, tr. Sibutol and Jockey Flexi at 380 seeds/m<sup>2</sup> with the Accord drill.  
: B : : Genesis at 5.0 kg.  
13-Dec-99 : B : : tm)Lexus 50 DF at 20 g in 200 l.  
: B : : tm)Stomp 400 SC at 2.5 l in 200 l.  
: B : : tm)Toppel 10 at 250 ml in 200 l.  
09-Mar-00 : B : : 34.5% N at 145 kg.  
19-Apr-00 : T : N2 : 34.5% N at 145 kg.  
: T : N3 : 34.5% N at 290 kg.  
: T : N4,N4+ : 34.5% N at 435 kg.  
: T : N5 : 34.5% N at 580 kg.  
24-Apr-00 : B : : tm)Starane 2 at 1.0 l in 100 l.  
: B : : tm)BASF 3C Chlormequat 720 at 2.0 l in 100 l.  
27-Apr-00 : T : N4+ : tm)Flamenco at 0.63 l in 220 l.  
: T : N4+ : tm)Amistar at 0.6 l in 220 l.  
: B : : tm)Opus at 0.5 l in 200 l.  
: B : : tm)Unix at 0.5 kg in 200 l.  
20-May-00 : T : N4+ : tm)Flamenco at 0.63 l in 220 l.

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**Experimental diary:**

20-May-00 : T : N4+ : tm)Amistar at 0.6 l in 220 l.  
 : B : : tm)Bravo 500 at 1.0 l in 200 l.  
 : B : : tm)Opus at 0.75 l in 200 l.  
 20-May-00 : B : : Upgrade at 1.0 l in 200 l.  
 24-May-00 : B : : tm)Topik at 125 ml in 100 l.  
 : B : : tm)Toil at 0.5 l in 100 l.  
 14-Aug-00 : B : : Combine harvested.

Previous crops: W. wheat 1998 and 1999.

**NOTE:** All plots were sampled in March and June to assess diseases on the roots and stem bases.

**GRAIN TONNES/HECTARE**

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

NITROGEN SEED TRT	N1	N2	N3	N4	N5	N4+	Mean
S	7.07	8.46	8.69	9.39	9.55	9.45	8.77
SF	7.24	8.55	8.95	9.58	9.91	10.00	9.04
Mean	7.16	8.51	8.82	9.48	9.73	9.73	8.90

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

SEED TRT	NITROGEN	SEED TRT NITROGEN
0.115	0.199	0.281

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.397	4.5

GRAIN MEAN DM% 82.7

PLOT AREA HARVESTED 0.00237