

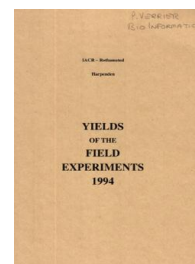
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## Yields of the Field Experiments 1994

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### 94/R/WW/1 Nitrogen Indicators - W. Wheat

#### Rothamsted Research

Rothamsted Research (1995) *94/R/WW/1 Nitrogen Indicators - W. Wheat* ; Yields Of The Field Experiments 1994, pp 93 - 94 - DOI: <https://doi.org/10.23637/ERADOC-1-49>

94/R/WW/1

WINTER WHEAT

NITROGEN INDICATORS

**Object:** To relate chlorophyll concentrations in individual leaves of w. wheat to nitrogen supply and crop yield - Delharding.

**Sponsor:** P.B. Barraclough.

**Design:** 3 randomised blocks of 8 plots.

**Plot dimensions:** 3.0 x 15.0.

**Treatments:**

N	Nitrogen in spring (kg N) applied as 34.5% N at first node formation:
-	0
1	50
2	100
3	150
4	200
5	250
6	300
7	40 and, in addition, four subsequent dressings of 40, applied at weekly intervals (total 200)

**Experimental diary:**

24-Aug-93 : B : Ploughed and furrow pressed.  
27-Aug-93 : B : Rolled.  
15-Oct-93 : B : Triple superphosphate at 213 kg.  
18-Oct-93 : B : Spring-tine cultivated.  
23-Oct-93 : B : Rotary harrowed, Hereward, dressed Cerevax, drilled at 380 seeds per m<sup>2</sup>.  
18-Apr-94 : T : N 1: 34.5% N at 145 kg.  
          : T : N 2: 34.5% N at 290 kg.  
          : T : N 3: 34.5% N at 435 kg.  
          : T : N 4: 34.5% N at 580 kg.  
          : T : N 5: 34.5% N at 725 kg.  
          : T : N 6: 34.5% N at 870 kg.  
          : T : N 7: 34.5% N at 116 kg.  
25-Apr-94 : T : N 7: 34.5% N at 116 kg.  
01-May-94 : B : Halo at 2.0 l with Tripart Brevis at 2.5 l in 200 l.  
03-May-94 : T : N 7: 34.5% N at 116 kg.  
09-May-94 : B : Ally at 30 g with Cheetah Super at 3.0 l and Starane 2 at 0.75 l in 200 l.  
10-May-94 : T : N 7: 34.5% N at 116 kg.  
18-May-94 : T : N 7: 34.5% N at 116 kg.  
23-Jun-94 : B : Cyclone at 1.0 l with Mallard 750 EC at 0.5 l in 200 l.  
22-Aug-94 : B : Combine harvested.

94/R/WW/1

- NOTES: (1) Leaf chlorophyll was measured at weekly intervals with a hand-held meter.  
(2) Crop growth, leaf area index and N content of the crop were measured on four occasions in spring and summer.  
(3) Yield components and N content of straw and grain were measured at final harvest.

**GRAIN TONNES/HECTARE**

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

N	
-	5.28
1	7.22
2	8.88
3	9.29
4	9.36
5	10.05
6	9.90
7	9.93
Mean	8.74

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

N
0.432

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.529	6.0
GRAIN MEAN DM%	87.9		
PLOT AREA HARVESTED	0.00253		