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## Yields of the Field Experiments 1999

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### 99/R/CS/355 Rates of N and Mineralization - W. Wheat

#### Rothamsted Research

Rothamsted Research (2000) *99/R/CS/355 Rates of N and Mineralization - W. Wheat* ; Yields Of The Field Experiments 1999, pp 66 - 67 - DOI: <https://doi.org/10.23637/ERADOC-1-34>

99/W/CS/326 FAR FIELD I (W)

**GRAIN TONNES/HECTARE**

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

|              |      |
|--------------|------|
| <b>STRAW</b> |      |
| NONE         | 8.44 |
| NORMAL       | 8.63 |
| 2 NORMAL     | 8.38 |
| 4 NORMAL     | 8.12 |
| Mean         | 8.39 |

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

**STRAW**  
0.259

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

| Stratum        | d.f. | s.e.  | cv% |
|----------------|------|-------|-----|
| BLOCK.WP       | 6    | 0.317 | 3.8 |
| GRAIN MEAN DM% | 81.5 |       |     |

**STRAW TONNES/HECTARE**

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

|              |      |
|--------------|------|
| <b>STRAW</b> |      |
| NONE         | 3.95 |
| NORMAL       | 3.99 |
| 2 NORMAL     | 3.98 |
| 4 NORMAL     | 4.07 |
| Mean         | 4.00 |

STRAW MEAN DM% 92.2

PLOT AREA HARVESTED 0.00333

99/R/CS/355

### RATES OF N AND MINERALIZATION

**Object:** To study the cumulative effects of rates of nitrogen fertilizer on soil mineralization capacity and yields of continuous winter wheat - Claycroft.

**Sponsor:** P.R. Poulton.

The ninth year, w. wheat.

For previous years see 91-98/R/CS/355.

**Design:** 3 randomised blocks of 7 plots.

**Whole plot dimensions:** 21.0 x 23.0.

#### Treatments:

**N** Nitrogen fertilizer (kg N) as 34.5% N cumulative to previous dressings:

0  
50  
100  
150  
200  
250  
300

#### Experimental diary:

09-Sep-98 : B : : Ploughed and furrow pressed, started.  
10-Sep-98 : B : : Ploughed and furrow pressed, continued.  
15-Sep-98 : B : : Ploughed and furrow pressed, completed.  
19-Sep-98 : B : : Rotary harrowed.  
21-Dec-98 : B : : Combination drilled, Mercia, tr Beret Gold, at 650 seeds/m<sup>2</sup> with the Nordsten drill.  
10-Mar-99 : B : : tm)Isoguard at 1.0 l in 200 l.  
: B : : tm)Unite A at 0.125 l in 200 l.  
: B : : tm)Unite B at 1.0 l in 200 l.  
: B : : tm)Cropoil at 1.0 l in 200 l.  
27-Apr-99 : T : 50,100,150,200,250,300 : 34.5% N at 145, 290, 435, 580, 725, 870 kg respectively.  
30-Apr-99 : B : : tm)Opus at 0.7 l in 200 l.  
: B : : tm)Tripart Brevis at 2.0 l in 200 l.  
01-Jun-99 : B : : tm)Folicur at 0.75 l in 100 l.  
: B : : tm)Sipcam UK Rover 500 at 1.0 l in 100 l.  
11-Jun-99 : B : : tm)Grasp at 0.5 l in 200  
: B : : tm)Output at 0.7 l in 200 l.  
25-Jun-99 : B : : tm)Folicur at 0.25 l in 100 l.  
: B : : tm)Magnesium sulphate at 5.0 kg in 100 l.  
23-Aug-99 : B : : Combine harvested.