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## Yields of the Field Experiments 1996

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

#### Rothamsted Research

Rothamsted Research (1997) *96/R/CS/355 Rates of N and Mineralization - W. Wheat* ; Yields Of The Field Experiments 1996, pp 78 - 79 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

96/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 sixth year, w. wheat.

For previous years see 91-95/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:
0	
50	
100	
150	
200	
250	
300	

**Experimental diary:**

22-Aug-95 : B : Straw chopped.  
19-Sep-95 : B : Ploughed and furrow pressed.  
22-Sep-95 : B : Rolled.  
10-Oct-95 : B : Gramoxone 100 at 3.0 l in 260 l.  
12-Oct-95 : B : Rotary harrowed.  
13-Oct-95 : B : Rotary harrowed, Mercia, dressed Sibutol, drilled at 380 seeds per m<sup>2</sup>.  
17-Oct-95 : B : Draza at 5.5 kg.  
23-Oct-95 : B : Avadex BW Granular at 22.5 kg.  
13-Nov-95 : B : MSS Iprofile at 2.5 l with MTM Trifluralin at 2.5 l in 200 l.  
16-Apr-96 : B : Topik at 125 ml with Barclay Holdup at 2.3 l and Sprayprover at 1.0 l in 200 l.  
17-Apr-96 : T : N 50, 100, 150, 200, 250, 300: Nitrogen treatments applied.  
12-Jun-96 : B : Monicle at 1.0 l in 300 l.  
09-Jul-96 : B : Wild oats pulled by hand.  
21-Aug-96 : B : Combine harvested.

**NOTE:** Crop samples were taken for chemical analysis.

96/R/CS/355

GRAIN TONNES/HECTARE

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

N	
0	3.44
50	5.49
100	6.61
150	7.24
200	7.27
250	7.67
300	7.68
Mean	6.48

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

N  
0.275

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.337	5.2
GRAIN MEAN DM%	86.5		
PLOT AREA HARVESTED	0.00483		