

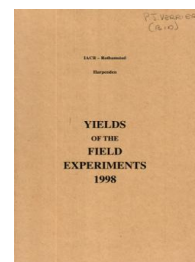
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1998

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1999) *98/R/CS/355 Rates of N and Mineralization - W. Wheat* ; Yields Of The Field Experiments 1998, pp 71 - 72 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

98/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 eighth year, w. wheat.

For previous years see 91-97/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:

17-Aug-97 : B : PK as (0:20:32) at 1250 kg.
08-Oct-97 : B : Ploughed and furrow pressed.
19-Oct-97 : B : Rotary harrowed.
24-Oct-97 : B : Rotary harrowed, Mercia, dressed Sibutol, drilled at 380 seeds per m².
03-Nov-97 : B : Draza at 5.5 kg.
23-Jan-98 : B : Hawk at 2.5 l with Chiltern Cropoil at 1.0 l in 200 l.
17-Mar-98 : B : Ally at 20 g with Alpha Briotril 24/16 at 0.5 l in 200 l.
24-Mar-98 : **T** : **N** 50, 100, 150, 200, 250, 300: 34.5% N at 145, 290, 435, 580, 725 and 870 kg respectively.
08-May-98 : B : Standon Tebuconazole at 0.7 l with Starane 2 at 0.5 l in 200 l.
28-May-98 : B : Opus at 0.7 l in 200 l.
12-Jun-98 : B : Bavistin DF at 0.5 kg with Folicur at 0.5 l in 100 l.
19-Aug-98 : B : Combine harvested.

NOTE: Samples of grain and straw were taken for chemical analysis.

98/R/CS/355

GRAIN TONNES/HECTARE

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

N	
0	2.84
50	4.01
100	5.22
150	6.32
200	6.89
250	7.12
300	7.03
Mean	5.63

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

N
0.496

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.607	10.8
GRAIN MEAN DM%	86.7		
PLOT AREA HARVESTED	0.00483		