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

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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