

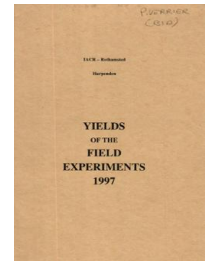
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Rothamsted Research

Rothamsted Research (1998) 97/R/CS/355 *Rates of N and Mineralization - W. Wheat* ; Yields Of The Field Experiments 1997, pp 70 - 71 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

97/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 seventh year, w. wheat.

For previous years see 91-96/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:

15-Sep-96 : B : Roundup at 1.5 l with Vassgro Non-ionic at 300 ml in 200 l.
25-Sep-96 : B : Ploughed and furrow pressed.
30-Sep-96 : B : Harrowed.
17-Oct-96 : B : Rotary harrowed, Mercia dressed Sibutol, drilled at 380 seeds per m².
23-Oct-96 : B : Draza at 5.5 kg.
15-Nov-96 : B : Avadex BW Granular at 22.1 kg.
03-Mar-97 : B : Autumn Kite at 6.0 l in 200 l.
17-Mar-97 : B : Topik at 1.25 l with Sprayprover at 1.0 l in 200 l.
11-Apr-97 : T : N 50, 100, 150, 200, 250, 300: 34.5% N at 145, 290, 435, 580, 725 and 870 kg respectively.
04-Jun-97 : T : Folicur at 0.5 l with Mallard 750 EC at 0.3 l and Pointer at 0.5 l in 300 l.
14-Aug-97 : B : Combine harvested.

NOTE: Crop samples were taken for chemical analysis.

97/R/CS/355

GRAIN TONNES/HECTARE

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

N	
0	3.03
50	5.04
100	5.90
150	6.09
200	6.59
250	6.89
300	6.74
Mean	5.76

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

N
0.238

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.292	5.1
GRAIN MEAN DM%	86.5		
PLOT AREA HARVESTED	0.00504		