

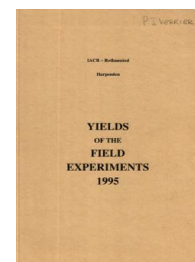
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95/R/CS/355 Rates of N and Mineralization - W. Wheat

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95/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 fifth year, w. wheat.

For previous years see 91-94/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:

20-Aug-94 : B : Straw chopped.
05-Sep-94 : B : PK as (0:20:32) at 1317 kg.
12-Sep-94 : B : Ploughed and furrow pressed.
28-Sep-94 : B : Rotary harrowed.
29-Sep-94 : B : Rotary harrowed, Mercia, dressed Rappor, drilled at 380 seeds per m².
30-Sep-94 : B : Draza at 5.5 kg.
07-Nov-94 : B : Avadex BW Granular at 22.5 kg.
23-Nov-94 : B : Alpha Isoproturon 500 at 5.0 l with Treflan at 2.0 l in 200 l.
11-Apr-95 : T : N 50, 100, 150, 200, 250, 300: Nitrogen treatments applied.
21-Apr-95 : B : Starane 2 at 0.75 l in 200 l.
15-Jun-95 : B : Halo at 2.0 l with Mallard 750 EC at 0.5 l in 300 l.
03-Aug-95 : B : Combine harvested.

NOTE: Crop samples were taken for chemical analysis.

95/R/CS/355

GRAIN TONNES/HECTARE

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

N	
0	3.72
50	5.06
100	5.02
150	6.16
200	6.32
250	6.04
300	6.27
Mean	5.51

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

N
0.433

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.530	9.6
GRAIN MEAN DM%	91.4		
PLOT AREA HARVESTED	0.00483		