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

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93/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 third year, w. wheat.

For previous years see 91-92/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:

15-Sep-92 : B : Ploughed.
17-Sep-92 : B : Disced.
17-Oct-92 : B : Heavy spring-tine cultivated twice.
19-Oct-92 : B : Rotary harrowed twice, Mercia, dressed Cerevax, drilled at 380 seeds per square metre.
20-Mar-93 : B : Ally at 30 g and Cheetah R at 2.0 l in 200 l.
19-Apr-93 : T : N 50: 34.5% N at 145 kg.
 : T : N 100: 34.5% N at 290 kg.
 : T : N 150: 34.5% N at 435 kg.
 : T : N 200: 34.5% N at 580 kg.
 : T : N 250: 34.5% N at 725 kg.
 : T : N 300: 34.5% N at 870 kg.
28-May-93 : B : Starane 2 at 0.75 l and Halo at 2.0 l in 200 l.
20-Aug-93 : B : Combine harvested.

NOTES: Samples were taken before harvest to measure straw and stubble yields. Grain, straw and stubble samples were taken for chemical analysis.

93/R/CS/355

GRAIN TONNES/HECTARE

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

N	
0	2.71
50	4.39
100	5.92
150	6.94
200	7.14
250	7.18
300	7.03
Mean	5.90

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

N
0.286

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.351	5.9
GRAIN MEAN DM%		87.7	
PLOT AREA HARVESTED		0.00483	