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

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94/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 fourth year, w. wheat.

For previous years see 91-93/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:

28-Sep-93 : B : Ploughed.
20-Oct-93 : B : Heavy spring-tine cultivated.
21-Oct-93 : B : Disced.
26-Oct-93 : B : Heavy spring-tine cultivated.
29-Oct-93 : B : Rotary harrowed twice, Mercia, dressed Cerevax, drilled at 380 seeds per m².
21-Dec-93 : B : Draza at 5.5 kg.
18-Apr-94 : 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.
19-Apr-94 : B : Starane 2 at 0.75 l with Wildcat at 1.25 l in 200 l.
01-May-94 : B : Halo at 2.0 l with Tripart Brevis at 2.5 l in 200 l.
31-May-94 : B : Cyclone at 1.0 l with Mallard 750 EC at 0.5 l in 200 l.
13-Jun-94 : B : Hostathion at 840 ml in 200 l.
29-Jul-94 : B : Glyphogan at 4.0 l in 200 l.
15-Aug-94 : B : Combine harvested.

NOTE: Crop samples were taken for chemical analysis.

94/R/CS/355

GRAIN TONNES/HECTARE

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

N	
0	1.98
50	4.51
100	6.14
150	7.85
200	7.33
250	6.51
300	6.83
Mean	5.88

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

N
0.495

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.606	10.3
GRAIN MEAN DM%	86.7		
PLOT AREA HARVESTED	0.00483		