

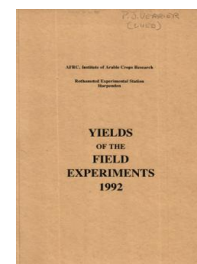
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92/R/CS/355 Rates of N and Mineralization - W. Wheat

Rothamsted Research

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92/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 second year, w. wheat.

For first year see 91/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 'Nitram':
0	
50	
100	
150	
200	
250	
300	

Experimental diary:

27-Aug-91 : B : Straw chopped.
03-Sep-91 : B : PK as (0:16:36) at 1040 kg.
02-Oct-91 : B : Ploughed and furrow pressed.
04-Oct-91 : B : Disced.
07-Oct-91 : B : Disced.
08-Oct-91 : B : Rotary harrowed.
09-Oct-91 : B : Rotary harrowed, Mercia drilled at 160 kg.
11-Oct-91 : B : Rolled.
27-Nov-91 : B : Tripart Ludorum at 3.0 l and Stomp 400 at 3.3 l in
200 l.
13-Apr-92 : 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-May-92 : B : Starane 2 at 1.0 l and Dorin at 1.0 l in 200 l.
23-Jun-92 : B : Mistral at 0.50 l and Radar at 0.50 l in 200 l.
26-Aug-92 : B : Combine harvested.

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

92/R/CS/355

GRAIN TONNES/HECTARE

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

N	
0	3.40
50	4.80
100	5.76
150	6.77
200	6.69
250	6.67
300	6.48
Mean	5.79

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

N
0.368

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.451	7.8

GRAIN MEAN DM% 78.6

PLOT AREA HARVESTED 0.00483