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

Rothamsted Research

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99/W/CS/326 FAR FIELD I (W)

GRAIN TONNES/HECTARE

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

STRAW	
NONE	8.44
NORMAL	8.63
2 NORMAL	8.38
4 NORMAL	8.12
Mean	8.39

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

STRAW
0.259

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.317	3.8
GRAIN MEAN DM%	81.5		

STRAW TONNES/HECTARE

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

STRAW	
NONE	3.95
NORMAL	3.99
2 NORMAL	3.98
4 NORMAL	4.07
Mean	4.00

STRAW MEAN DM% 92.2

PLOT AREA HARVESTED 0.00333

99/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 ninth year, w. wheat.

For previous years see 91-98/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:

09-Sep-98 : B : : Ploughed and furrow pressed, started.
10-Sep-98 : B : : Ploughed and furrow pressed, continued.
15-Sep-98 : B : : Ploughed and furrow pressed, completed.
19-Sep-98 : B : : Rotary harrowed.
21-Dec-98 : B : : Combination drilled, Mercia, tr Beret Gold, at 650 seeds/m² with the Nordsten drill.
10-Mar-99 : B : : tm)Isoguard at 1.0 l in 200 l.
 : B : : tm)Unite A at 0.125 l in 200 l.
 : B : : tm)Unite B at 1.0 l in 200 l.
 : B : : tm)Cropoil at 1.0 l in 200 l.
27-Apr-99 : T : 50,100,150,200,250,300 : 34.5% N at 145, 290, 435, 580, 725, 870 kg respectively.
30-Apr-99 : B : : tm)Opus at 0.7 l in 200 l.
 : B : : tm)Tripart Brevis at 2.0 l in 200 l.
01-Jun-99 : B : : tm)Folicur at 0.75 l in 100 l.
 : B : : tm)Sipcam UK Rover 500 at 1.0 l in 100 l.
11-Jun-99 : B : : tm)Grasp at 0.5 l in 200
 : B : : tm)Output at 0.7 l in 200 l.
25-Jun-99 : B : : tm)Folicur at 0.25 l in 100 l.
 : B : : tm)Magnesium sulphate at 5.0 kg in 100 l.
23-Aug-99 : B : : Combine harvested.