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Yields of the Field Experiments 2000



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00/R/CS/355 Rates of Mineralization - W. Wheat

Rothamsted Research

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00/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 tenth year, w. wheat.
For previous years see 91-99/R/CS/355.
Design: 3 randomised blocks of 7 plots.
Whole plot dimensions: 21.0 x 23.0.
Treatments:
NITROGEN
                   Nitrogen fertilizer (kg N) as 34.5% N cumulative to
                         previous dressings:
0
50
100
150
200
250
300
Experimental diary:
   29-Aug-99 : B : : Ploughing started.
30-Aug-99 : B : : Ploughing completed.
   31-Aug-99 : B :
                      : Rotary harrowed.
   03-Sep-99 : B :
                      : Rolled.
   14-Sep-99 : B : : Disced.
   16-Sep-99 : B :
                       : Combination drilled, Consort, tr. Sibutol at 350
                             seeds/m² with the Nordsten drill.
   22-Sep-99 : B :
                        : Genesis at 5.0 kg.
                        : tm) Lexus 50 DF at 20 g in 200 1.
   27-Oct-99 : B :
              : B :
                        : tm) Stomp 400 SC at 2.5 1 in 200 1.
              : B :
                        : tm)Cyperkill 10 at 250 ml in 200 1.
   18-Apr-00 : T : 50,100,150,200,250,300 : 34.5% N at 145, 290, 435, 580, 725,
                             870 kg respectively
   29-Apr-00 : B :
                      : Landmark at 0.5 1 in 200 1.
   15-May-00 : B :
                      : tm)Ally at 30 g in 200 1.
              : B :
                      : tm)Starane 2 at 0.5 1 in 200 1.
                     : tm)Topik at 0.125 1 in 200 1.

: tm)Toil at 1.0 1 in 200 1.

: Landmark at 1.0 1 in 100 1.
              : B :
              : B :
   20-May-00 : B :
   15-Aug-00 : B :
                       : Combine harvested.
```

Previous crops: W. wheat since 1990.

NOTE: Samples of grain were taken for chemical analysis.

00/R/CS/355

GRAIN TONNES/HECTARE

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

ITROGEN	
0	0.92
50	2.56
100	2.89
150	5.18
200	5.28
250	6.72
300	7.55

Mean 4.44

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

NITROGEN

0.407

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

Stratum d.f. s.e. cv%

BLOCK.WP 12 0.499 11.2

GRAIN MEAN DM% 85.3

PLOT AREA HARVESTED 0.00504