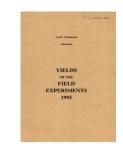
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# Yields of the Field Experiments 1995



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

# **Rothamsted Research**

Rothamsted Research (1996) 95/R/CS/355 Rates of N and Mineralization - W. Wheat; Yields Of The Field Experiments 1995, pp 81 - 82 - DOI: https://doi.org/10.23637/ERADOC-1-50

### 95/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 fifth year, w. wheat.

For previous years see 91-94/R/CS/355.

Design: 3 randomised blocks of 7 plots.

Whole plot dimensions:  $21.0 \times 23.0$ .

#### Treatments:

N Nitrogen fertilizer (kg N) as 34.5% N:

0
50
100
150
200
250
300

#### Experimental diary:

```
20-Aug-94 : B : Straw chopped.

05-Sep-94 : B : PK as (0:20:32) at 1317 kg.

12-Sep-94 : B : Ploughed and furrow pressed.

28-Sep-94 : B : Rotary harrowed.

29-Sep-94 : B : Rotary harrowed, Mercia, dressed Rappor, drilled at 380 seeds per m².

30-Sep-94 : B : Draza at 5.5 kg.

07-Nov-94 : B : Avadex BW Granular at 22.5 kg.

23-Nov-94 : B : Alpha Isoproturon 500 at 5.0 l with Treflan at 2.0 l in 200 l.

11-Apr-95 : T : N 50, 100, 150, 200, 250, 300: Nitrogen treatments applied.

21-Apr-95 : B : Starane 2 at 0.75 l in 200 l.

15-Jun-95 : B : Halo at 2.0 l with Mallard 750 EC at 0.5 l in 300 l.

03-Aug-95 : B : Combine harvested.
```

NOTE: Crop samples were taken for chemical analysis.

## 95/R/CS/355

### GRAIN TONNES/HECTARE

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

N 0 3.72 50 5.06 100 5.02 150 6.16 200 6.32 250 6.04 300 6.27 5.51 Mean

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

**N** 

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

Stratum d.f. s.e. cv%
BLOCK.WP 12 0.530 9.6

GRAIN MEAN DM% 91.4

PLOT AREA HARVESTED 0.00483