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## Yields of the Field Experiments 1999

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### 99/R/CS/429 Winter Rye As an Energy Crop - W. Rye

#### Rothamsted Research

Rothamsted Research (2000) *99/R/CS/429 Winter Rye As an Energy Crop - W. Rye* ; Yields Of The Field Experiments 1999, pp 75 - 76 - DOI: <https://doi.org/10.23637/ERADOC-1-34>

99/W/CS/428

GRAIN TONNES/HECTARE

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

SLUDGE

|     |      |
|-----|------|
| T21 | 1.83 |
| T22 | 1.85 |
| T23 | 2.55 |
| T24 | 2.80 |
| T25 | 2.37 |
| T26 | 2.42 |
| T27 | 1.85 |
| T28 | 1.62 |
| T29 | 2.40 |
| T30 | 2.81 |
| T31 | 1.71 |

|      |      |
|------|------|
| Mean | 2.14 |
|------|------|

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

SLUDGE

|       |         |
|-------|---------|
| 0.569 | min.rep |
| 0.492 | max-min |
| 0.402 | max.rep |

SLUDGE

|         |                                   |
|---------|-----------------------------------|
| max-min | T21 or T22 v any of the remainder |
| min.rep | Any of the remainder              |
| max.rep | T21 v T22 only                    |

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

| Stratum                    | d.f.    | s.e.  | cv%  |
|----------------------------|---------|-------|------|
| BLOCK.WP                   | 26      | 0.696 | 32.5 |
| GRAIN MEAN DM%             | 89.1    |       |      |
| PLOT AREA HARVESTED (MEAN) | 0.00043 |       |      |

99/R/CS/429

# WINTER RYE AS AN ENERGY CROP

**Object:** To measure the effects of rates of nitrogen fertilizer on the biomass yield of w. rye - Road Piece West.

**Sponsor:** D.G. Christian.

The sixth year, w. rye.

For previous years see 94-98/R/CS/429.

**Design:** 3 randomised blocks of 5 plots.

**Plot dimensions:** 3.0 x 15.0.

## Treatments:

**N** Nitrogen fertilizer (kg N), cumulative to previous dressings:

|    |      |
|----|------|
| -  | None |
| N1 | 30   |
| N2 | 60   |
| N3 | 90   |
| N4 | 120  |

## Experimental diary:

25-Aug-98 : B : : Alpha Glyphogan at 4.0 l in 220 l.  
18-Sep-98 : B : : Ploughed.  
25-Sep-98 : B : : Cambridge rolled.  
: B : : Combination drilled, Esprit, undressed, at 350 seeds/m<sup>2</sup> with the Accord drill.  
26-Sep-98 : B : : Cambridge rolled.  
02-Oct-98 : B : : Hardy at 15 kg.  
20-Oct-98 : T : : Hand broadcast Esprit, undressed, at 380 seeds/m<sup>2</sup> to all misses.  
21-Oct-98 : B : : Hardy at 7.5 kg.  
04-Nov-98 : B : : Decoy at 7.5 kg.  
07-Apr-99 : B : : Decoy at 15 kg.  
09-Apr-99 : B : : Quantum at 0.03 kg in 200 l.  
23-Apr-99 : T : N1,N2,N3,N4 : 34.5% N applied as treatment.  
27-May-99 : B : : Folicur at 1.0 l in 200 l.  
03-Aug-99 : B : : Combine harvested.