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## Yields of the Field Experiments 1998

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

#### Rothamsted Research

Rothamsted Research (1999) *98/R/CS/429 Winter Rye As an Energy Crop - W. Rye* ; Yields Of The Field Experiments 1998, pp 80 - 81 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

98/R/CS/429

**WINTER RYE AS AN ENERGY CROP**

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

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

The fifth year, w. rye.

For previous years see 94-97/R/CS/429.

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

**Plot dimensions:** 3.0 x 15.0.

**Treatments:**

<b>N</b>	Nitrogen fertilizer (kg N), cumulative to previous dressings:
-	None
N1	30
N2	60
N3	90
N4	120

**Experimental diary:**

15-Aug-97 : B : Straw baled.  
26-Aug-97 : B : Ploughed and rolled.  
27-Aug-97 : B : PK as (0:20:32) at 1500 kg.  
29-Aug-97 : B : Heavy spring-tine cultivated. Rotary harrowed. Amando, undressed, drilled at 350 seeds per m<sup>2</sup>. Rolled.  
29-Sep-97 : B : Swipe 560 EC at 3.5 l in 200 l.  
17-Mar-98 : B : Alto 100 SL at 0.6 l in 200 l.  
14-Apr-98 : T : N N1, N2, N3, N4: 34.5% N at 87, 174, 261, and 348 kg respectively.  
08-May-98 : B : Folicur at 0.75 l in 200 l.  
05-Aug-98 : B : Combine harvested.

**NOTE:** Straw yields were also taken. Samples of grain and straw were taken for chemical analysis.

98/R/CS/429

**GRAIN TONNES/HECTARE**

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

<b>N</b>	
-	6.02
N1	6.01
N2	6.91
N3	6.41
N4	6.34
Mean	6.34

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

<b>N</b>
0.308

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.378	6.0
GRAIN MEAN DM%	81.9		

**STRAW TONNES/HECTARE**

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

<b>N</b>	
-	5.81
N1	7.28
N2	6.48
N3	6.18
N4	6.79
Mean	6.51

STRAW MEAN DM% 92.5

PLOT AREA HARVESTED 0.00300