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## Yields of the Field Experiments 1994

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

#### Rothamsted Research

Rothamsted Research (1995) *94/R/CS/429 Winter Rye As an Energy Crop - W. Rye* ; Yields Of The Field Experiments 1994, pp 91 - 92 - DOI: <https://doi.org/10.23637/ERADOC-1-49>

94/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.

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

**Plot dimensions:** 3.0 x 15.0.

**Treatments:**

**NITROGEN** Nitrogen fertilizer (kg N), applied as 'Nitro-Chalk':

N0	None
N1	30
N2	60
N3	90
N4	120

**Experimental diary:**

- 13-Sep-93 : B : Ploughed.
- 15-Oct-93 : B : Rotary harrowed, Amando, dressed Baytan, drilled at 350 seeds per m<sup>2</sup>.
- 14-Dec-93 : B : Draza at 5.5 kg.
- 22-Apr-94 : T : N 30: 27% N at 111 kg.
- : T : N 60: 27% N at 222 kg.
- : T : N 90: 27% N at 333 kg.
- : T : N 120: 27% N at 444 kg.
- 23-Aug-94 : B : Combine harvested.

**NOTE:** Ear numbers were counted, dry matter yield measured and nutrient concentration analysed on crop samples taken at anthesis and pre-harvest.

**GRAIN TONNES/HECTARE**

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

<b>NITROGEN</b>	
N0	5.53
N1	5.72
N2	6.44
N3	7.15
N4	6.77
Mean	6.32

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

<b>NITROGEN</b>	
	0.616

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**GRAIN TONNES/HECTARE**

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.755	11.9
GRAIN MEAN DM%	84.0		
PLOT AREA HARVESTED	0.00230		