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

Rothamsted Research

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97/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 fourth year, w. rye.

For previous years see 94-96/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:

- 09-Sep-96 : B : Straw baled.
- 16-Oct-96 : B : Ploughed.
- 21-Oct-96 : B : Spring-tine cultivated.
- 22-Oct-96 : B : Rotary harrowed, Amando undressed, drilled at 350 seeds per m².
- 10-Apr-97 : T : N N1, N2, N3, N4: 34.5% N at 87, 174, 261 and 347 kg respectively.
- 13-Aug-97 : B : Combine harvested.

97/R/CS/429

GRAIN TONNES/HECTARE

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

N	
-	3.22
N1	3.67
N2	3.47
N3	3.53
N4	3.11
Mean	3.40

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

N
0.460

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.563	16.6
GRAIN MEAN DM%			85.2

STRAW TONNES/HECTARE

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

N	
-	2.58
N1	3.46
N2	3.36
N3	3.32
N4	3.16
Mean	3.18

STRAW MEAN DM% 90.8

PLOT AREA HARVESTED 0.00240