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

Rothamsted Research

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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:

N	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 m². 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 *****

N	
-	6.02
N1	6.01
N2	6.91
N3	6.41
N4	6.34
Mean	6.34

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

N	
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 *****

N	
-	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