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

Rothamsted Research

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00/R/CS/429

WINTER RYE AS AN ENERGY CROP

Object: To measure the effects of rates of nitrogen fertilizer on the biomass yield of six consecutive crops of w. rye and a following w. wheat crop - Road Piece West.

Sponsor: D.G. Christian.

The seventh year, w. wheat.

For previous years see 94-99/R/CS/429.

Design: 3 randomised blocks of 5 plots.

Plot dimensions: 3.0 x 15.0.

Treatments:

N Nitrogen fertilizer (kg N) annually to previous w. rye. Basal dressing in 2000:

(-)	None
(N1)	30
(N2)	60
(N3)	90
(N4)	120

Experimental diary:

19-Oct-99 : B : : Ploughed. Combination drilled, Malacca, tr. Sibutol, at 380 seeds/m² with the Accord drill.
08-Mar-00 : B : : 34.5% N at 232 kg.
13-Mar-00 : B : : tm)Ally at 30 g in 200 l.
: B : : tm)Tolkan Liquid at 3.5 l in 200 l.
06-Apr-00 : B : : Boxer at 100 ml in 200 l.
04-May-00 : B : : 34.5% N at 290 kg.
08-May-00 : B : : Landmark at 0.7 l in 200 l.
15-Aug-00 : B : : Combine harvested.

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GRAIN TONNES/HECTARE

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

N	
(-)	6.42
(N1)	5.71
(N2)	5.94
(N3)	5.17
(N4)	5.32
Mean	5.71

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

N
0.518

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.634	11.1
GRAIN MEAN DM%	83.1		

STRAW TONNES/HECTARE

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

N	
(-)	4.41
(N1)	4.63
(N2)	4.33
(N3)	4.09
(N4)	4.07
Mean	4.30

STRAW MEAN DM% 91.6

PLOT AREA HARVESTED 0.00240