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

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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 m².
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 *****

NITROGEN	
N0	5.53
N1	5.72
N2	6.44
N3	7.15
N4	6.77
Mean	6.32

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

NITROGEN
0.616

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GRAIN TONNES/HECTARE

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

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

PLOT AREA HARVESTED 0.00230