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

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95/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 second year, w. rye.

For previous year see 94/R/CS/429.

Design: 3 randomised blocks of 5 plots.

Plot dimensions: 3.0 x 15.0.

Treatments:

NITROGEN Nitrogen fertilizer (kg N), applied as 'Nitro-Chalk', cumulative to previous dressings:

-	None
N1	30
N2	60
N3	90
N4	120

Experimental diary:

- 30-Aug-94 : B : Straw baled.
- 21-Sep-94 : B : Harrowed to remove weeds, ploughed.
- 30-Sep-94 : B : Rotary harrowed twice. Amando, dressed Baytan, drilled at 350 seeds per m².
: B : Draza at 5.5 kg.
- 02-Dec-94 : B : Starane 2 at 0.75 l in 200 l.
- 04-Apr-95 : T : **NITROGEN** N1, N2, N3, N4: 27% N at 111, 222, 333 and 444 kg respectively.
- 19-Apr-95 : B : Tern 750 EC at 1.0 l in 200 l.
- 28-Apr-95 : B : Starane 2 at 1.0 l with New 5C Cycocel at 2.5 l in 200 l.
- 19-Jun-95 : B : Corbel at 1.0 l in 400 l.
- 09-Aug-95 : B : Combine harvested.

NOTE: Crop samples were taken in April to determine nitrogen content, plant and tiller numbers before top dressing. Biomass and nitrogen content was measured at anthesis. Grain and straw were sampled at harvest for nitrogen content.

95/R/CS/429

GRAIN TONNES/HECTARE

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

NITROGEN

-	3.22
N1	4.19
N2	4.76
N3	4.84
N4	4.49
Mean	4.30

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

NITROGEN

0.411

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.504	11.7
GRAIN MEAN DM%	89.5		
PLOT AREA HARVESTED	0.00230		