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Yields of the Field Experiments 1997

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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.

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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