Yields of the Field Experiments 2000

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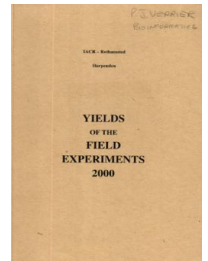
00/R/CS/429 Winter Rye As an Energy Crop - W. Wheat

Rothamsted Research

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

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