

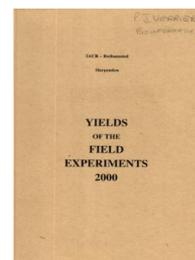
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00/R/CS/326 and 00/W/CS/326 Amounts of Straw - W. Wheat

Rothamsted Research

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00/R/CS/326 and 00/W/CS/326

AMOUNTS OF STRAW

Object: To study the effects of different amounts of straw, incorporated into the soil, on w. wheat - Rothamsted (R) Great Knott III, Woburn (W) Far Field I.

Sponsors: M.J. Glendining, P.C. Brookes.

The 14th year, w. wheat.

For previous years see 87-99/R & W/CS/326.

Design: 4 randomised blocks of 4 plots (R).
3 randomised blocks of 4 plots (W).

Whole plot dimensions: 3.0 x 13.5 (R).
3.0 x 14.5 (W).

Treatments:

STRAW Amounts of straw incorporated into the seedbed (t per ha 85% DM), cumulative to previous annual dressings:

| | | R | W |
|----------|-------------------|------|------|
| NONE | None | - | - |
| NORMAL | Normal | 4.4 | 4.0 |
| 2 NORMAL | Twice normal | 8.8 | 8.0 |
| 4 NORMAL | Four times normal | 17.6 | 16.0 |

Experimental diary:

Great Knott III (R):

- 24-Aug-99 : T : NONE : Straw removed.
- : T : NORMAL, 2 NORMAL, 4 NORMAL : Straw applied and chopped.
- 16-Sep-99 : B : Ploughed and furrow pressed.
- 17-Sep-99 : B : Combination drilled, Hereward, tr. Sibutol, at 350 seeds/m² with the Accord drill. Rolled.
- 15-Nov-99 : B : tm)Lexus 50 DF at 20 g in 200 l.
- : B : tm)Stomp 400 SC at 2.5 l in 200 l.
- : B : tm)Toppel 10 at 250 ml in 200 l.
- 09-Mar-00 : B : 34.5% N at 145 kg.
- 06-Apr-00 : B : Boxer at 100 ml in 200 l.
- 19-Apr-00 : B : 34.5% N at 290 kg.
- 27-Apr-00 : B : tm)Opus at 0.5 l in 200 l.
- : B : tm)Unix at 0.5 kg in 200 l.
- 24-May-00 : B : tm)Amistar at 0.8 l in 100 l.
- : B : tm)Folicur at 0.75 l in 100 l.
- 12-Aug-00 : T : Combine harvested.

Far Field I (W):

- 23-Aug-99 : T : NONE : Straw removed.
- : T : NORMAL, 2 NORMAL, 4 NORMAL : Straw applied and chopped.
- 20-Sep-99 : B : Ploughed and furrow pressed.
- 01-Oct-99 : B : Combination drilled, Hereward, tr. Sibutol, at 350 seeds/m² with the Nordsten drill.
- 11-Nov-99 : B : Hallmark at 100 ml in 100 l.
- 19-Mar-00 : B : Platform S at 1.0 kg in 200 l.
- 27-Apr-00 : B : Sulphan (30.0% N, 7.6% S) at 333 kg.

00/R/CS/326 and 00/W/CS/326

Experimental diary:

Far Field I (W):

13-May-00 : B : : tm)Ally at 30 g in 200 l.
 : B : : tm)Starane 2 at 1.0 l in 200 l.
20-May-00 : B : : Opus at 0.75 l in 200 l.
21-Aug-00 : B : : Combine harvested.

NOTE: Grain and straw samples were analysed for nitrogen content.

00/R/CS/326 GREAT KNOTT III (R)

GRAIN TONNES/HECTARE

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

| STRAW | |
|--------------|------|
| NONE | 7.10 |
| NORMAL | 7.18 |
| 2 NORMAL | 7.51 |
| 4 NORMAL | 7.57 |
| Mean | 7.34 |

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

| STRAW | |
|--------------|-------|
| | 0.138 |

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

| Stratum | d.f. | s.e. | cv% |
|----------------|------|-------|-----|
| BLOCK.WP | 9 | 0.196 | 2.7 |
| GRAIN MEAN DM% | 88.5 | | |

STRAW TONNES/HECTARE

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

| STRAW | |
|--------------|------|
| NONE | 4.79 |
| NORMAL | 4.82 |
| 2 NORMAL | 4.96 |
| 4 NORMAL | 5.71 |
| Mean | 5.07 |

STRAW MEAN DM% 81.1

PLOT AREA HARVESTED 0.00324

00/W/CS/326 FAR FIELD I (W)

GRAIN TONNES/HECTARE

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

| STRAW | |
|--------------|------|
| NONE | 3.56 |
| NORMAL | 4.31 |
| 2 NORMAL | 3.56 |
| 4 NORMAL | 3.05 |
| Mean | 3.62 |

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

STRAW
0.432

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

| Stratum | d.f. | s.e. | cv% |
|----------|------|-------|------|
| BLOCK.WP | 6 | 0.530 | 14.6 |

GRAIN MEAN DM% 85.4

STRAW TONNES/HECTARE

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

| STRAW | |
|--------------|------|
| NONE | 2.37 |
| NORMAL | 3.41 |
| 2 NORMAL | 3.11 |
| 4 NORMAL | 3.09 |
| Mean | 3.00 |

STRAW MEAN DM% 76.4

PLOT AREA HARVESTED 0.00348