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## Yields of the Field Experiments 2000

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

#### Rothamsted Research

Rothamsted Research (2001) *00/R/CS/326 and 00/W/CS/326 Amounts of Straw - W. Wheat* ; Yields Of The Field Experiments 2000, pp 64 - 66 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

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/m<sup>2</sup> 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/m<sup>2</sup> 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 \*\*\*\*\*

<b>STRAW</b>	
NONE	7.10
NORMAL	7.18
2 NORMAL	7.51
4 NORMAL	7.57
Mean	7.34

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

<b>STRAW</b>	
	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 \*\*\*\*\*

<b>STRAW</b>	
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 \*\*\*\*\*

<b>STRAW</b>	
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 \*\*\*\*\*

<b>STRAW</b>	
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