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## Yields of the Field Experiments 1994

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### 94/R/CS/326 and 94/W/CS/326 Amounts of Straw - W. Wheat

#### Rothamsted Research

Rothamsted Research (1995) *94/R/CS/326 and 94/W/CS/326 Amounts of Straw - W. Wheat* ; Yields Of The Field Experiments 1994, pp 67 - 69 - DOI: <https://doi.org/10.23637/ERADOC-1-49>

94/R/CS/326 and 94/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:** R.D. Prew, D.G. Christian, J.F. Jenkyn, E.T.G. Bacon.

The eighth year, w. wheat.

For previous years see 87-93/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	5.3	2.8
2 NORMAL	Twice normal	10.6	5.6
4 NORMAL	Four times normal	21.2	11.2

**Experimental diary:**

Great Knott III (R)

- 25-Aug-93 : T : **STRAW** NORMAL, 2 NORMAL, 4 NORMAL: Straw applied.  
: T : **STRAW** NONE: Straw removed.  
: B : Straw and stubble chopped.
- 27-Sep-93 : B : Ploughed.
- 19-Oct-93 : B : Disced, spring-tine cultivated.
- 20-Oct-93 : B : Rotary harrowed, Soissons, dressed Cerevax, drilled at 380 seeds per m<sup>2</sup>.
- 17-Nov-93 : B : Optimol at 15 kg.
- 09-Mar-94 : B : 34.5% N at 118 kg.
- 12-Apr-94 : B : 34.5% N at 448 kg.  
: B : Starane 2 at 0.75 l with Wildcat at 1.25 l in 200 l.
- 01-May-94 : B : Halo at 2.0 l with Tripart Brevis at 2.5 l in 200 l.
- 24-May-94 : B : Ally at 30 g with Cheetah Super at 1.5 l and Starane 2 at 0.75 l in 200 l.
- 31-May-94 : B : Bombardier at 1.0 l with Cyclone at 1.0 l in 200 l.
- 06-Aug-94 : B : Combine harvested.

Far Field I (W)

- 17-Aug-93 : T : **STRAW** NORMAL, 2 NORMAL, 4 NORMAL: Straw applied.  
: T : **STRAW** NONE: Straw removed.
- 20-Aug-93 : B : Straw and stubble chopped.
- 22-Sep-93 : B : Tine cultivated to 10 cm.
- 19-Oct-93 : B : Scythe at 4.0 l in 200 l.

94/R/CS/326 and 94/W/CS/326

**Experimental diary:**

Far Field I (W)

20-Oct-93 : B : Rotary harrowed, Soissons, dressed Panocrine, drilled at 350 seeds per m<sup>2</sup>.  
 28-Feb-94 : B : Draza at 5.5 kg.  
 14-Mar-94 : B : 34.5% N at 116 kg.  
 04-May-94 : B : 34.5% N at 348 kg.  
 06-May-94 : B : Ally at 30 g with Oxytril CM at 1.0 l and Halo at 1.5 l in 200 l.  
 30-May-94 : B : Cyclone at 1.0 l with Bravo 500 at 1.0 l in 200 l.  
 14-Jun-94 : B : Hostathion at 0.84 l in 200 l.  
 16-Aug-94 : B : Combine harvested.

**NOTE:** Establishment counts were made in winter. In summer fertile ear numbers and harvest index were measured.

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

**GRAIN TONNES/HECTARE**

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

STRAW	NONE	NORMAL	2 NORMAL	4 NORMAL	Mean
	9.78	9.69	9.71	9.67	9.71

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

STRAW  
0.123

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.173	1.8

GRAIN MEAN DM% 86.2

PLOT AREA HARVESTED 0.00310

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

GRAIN TONNES/HECTARE

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

STRAW	NONE	NORMAL	2 NORMAL	4 NORMAL	Mean
	4.48	5.03	4.59	4.11	4.55

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

STRAW

1.258

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	1.540	33.8

GRAIN MEAN DM% 86.1

PLOT AREA HARVESTED 0.00319