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# Yields of the Field Experiments 1993



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# 93/R/CS/326 and 93/W/CS/326 Amounts of Straw - W. Wheat

# **Rothamsted Research**

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#### 93/R/CS/326 and 93/W/CS/326

#### AMOUNTS OF STRAW

Object: To study the effects of a range of 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 seventh year, w. wheat.

For previous years see 87-92/R&W/CS/326.

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

Whole plot dimensions:  $3.0 \times 13.5 (R)$ .  $3.0 \times 14.5 (W)$ .

#### Treatments:

STRAW Amounts of straw (rape straw in autumn 1992) incorporated

into seedbed (t per ha 85% DM), cumulative to previous

annual dressings:

		R	W
NONE	None	-	-
NORMAL	Normal	2.7	2.7
2 NORMAL	Twice normal	5.4	5.4
4 NORMAL	Four times normal	10.8	10.8

#### Experimental diary:

Great Knott III (R)

06-Aug-92 : T : STRAW NORMAL, 2 NORMAL, 4 NORMAL: Straw applied.

07-Aug-92 : B : Straw and stubble chopped..

18-Aug-92 : B : Gramoxone 100 at 2.0 l with Farmon Blue at 0.1 l in

200 1.

14-Oct-92 : B : Ploughed.

16-Oct-92 : B : Rotary harrowed, Soissons, dressed Cerevax, drilled at

400 seeds per square metre.

22-Oct-92 : B : Draza at 5.5 kg.

13-Nov-92 : B : Avadex BW Granular at 22.5 kg.

24-Nov-92 : B : Draza at 5.5 kg.

24-Feb-93 : B : Panther at 2.0 1 in 200 1.

08-Mar-93 : B : 34.5% N at 120 kg.

15-Apr-93 : B : Halo at 2.0 1 with Tripart Brevis at 2.2 1 in 200 1.

16-Apr-93 : B : 34.5% N at 460 kg.

22-Jun-93 : B : Corbel at 0.50 1 and Radar at 0.50 1 in 200 1.

19-Aug-93 : B : Combine harvested.

#### 93/R/CS/326 and 93/W/CS/326

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Experimental diary:
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Far Field I (W)
   10-Aug-92 : T : STRAW NORMAL, 2 NORMAL, 4 NORMAL: Straw applied.
             : B : Straw and stubble chopped.
   11-Aug-92 : B : Subsoiled to 45 cm with times 1.5 m apart.
   29-Sep-92 : B : Roundup at 4.0 1 in 200 1.
   05-Oct-92 : B : Heavy spring-tine cultivated to 20 cm.
   07-Oct-92 : B : Disced twice to 10 cm.
   09-Oct-92 : B : Rotary harrowed, Soissons, dressed Cerevax, drilled at
                      350 seeds per square metre.
             : B : Avadex BW Granular at 4.2 1 in 200 1.
   12-Oct-92 : B : Pre-Empt at 5.0 1 with Scythe at 3.0 1 in 200 1.
   16-Oct-92 : B : Draza at 5.5 kg.
   16-Mar-93 : B : 34.5% N at 120 kg.
   15-Apr-93 : B : Starane 2 at 1.0 1 with New 5C Cycocel at 2.5 1 in
                      200 1.
   30-Apr-93 : B : 34.5% N at 460 kg.
   18-May-93 : B : Halo at 2.0 1 and Mistral at 0.25 1 in 200 1.
   22-Jun-93 : B : Ashlade Mancozeb FL at 3.0 1 and Corbel at 0.50 1 in
                      200 1.
   14-Aug-93 : B : Combine harvested.
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- NOTES: (1) Establishment counts were made in autumn. Shoot numbers and dry weights in spring, fertile ear numbers at anthesis and harvest index were measured.
  - (2) Foot and root rots were assessed in summer.

### 93/R/CS/326 GREAT KNOTT III (R)

#### GRAIN TONNES/HECTARE

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

STRAW

NONE 10.01 NORMAL 9.94 2 NORMAL 10.09 4 NORMAL 10.20

Mean 10.06

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

STRAW

0.186

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

Stratum d.f. s.e. cv%

BLOCK.WP 9 0.263 2.6

GRAIN MEAN DM% 84.8

PLOT AREA HARVESTED 0.00306

# 93/W/CS/326 FAR FIELD I (W)

#### GRAIN TONNES/HECTARE

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

STRAW

NONE 8.99 NORMAL 8.46 8.36 2 NORMAL 4 NORMAL 8.65 8.61

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

STRAW

Mean

0.685

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

d.f. Stratum s.e. cv%

0.839 9.7 6 BLOCK.WP

GRAIN MEAN DM% 82.7

PLOT AREA HARVESTED 0.00316