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97/R/CS/326 and 97/W/CS/326 Amounts of Straw - W. Wheat

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97/R/CS/326 and 97/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, N.J. Bradbury, J.F. Jenkyn.

The eleventh year, w. wheat.

For previous years see 87-96/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	4.5	4.6
2 NORMAL	Twice normal	9.0	9.2
4 NORMAL	Four times normal	18.0	18.4

Experimental diary:

Great Knott III (R):

- 20-Aug-96 : T : **STRAW NORMAL**, 2 NORMAL, 4 NORMAL: Straw applied and chopped.
 : T : **STRAW NONE**: Straw removed.
- 23-Sep-96 : B : Sting CT at 2.0 l in 200 l.
- 01-Oct-96 : B : Ploughed.
- 02-Oct-96 : B : Spring-tine cultivated, rotary harrowed, Hereward, dressed Beret Gold, drilled at 380 seeds per m².
- 03-Oct-96 : B : Rolled.
- 09-Oct-96 : B : Draza at 5.5 kg.
- 14-Nov-96 : B : Avadex BW Granular at 22.1 kg.
- 16-Dec-96 : B : Isoproturon 500 at 4.2 l with Stomp 400 SC at 3.1 l in 200 l.
- 18-Apr-97 : B : Starane 2 at 0.75 l in 300 l.
- 04-Jun-97 : B : Folicur at 0.3 l with Pointer at 0.5 l in 300 l.
- 19-Aug-97 : B : Combine harvested.

Far Field I (W):

- 21-Aug-96 : T : **STRAW NORMAL**, 2 NORMAL, 4 NORMAL: Straw applied.
 : T : **STRAW NONE**: Straw removed.
- 22-Aug-96 : B : Straw chopped.
- 02-Oct-96 : B : Scythe LC at 3.0 l in 200 l.
- 03-Oct-96 : B : Rotary harrowed, Hereward, dressed Sibutol, drilled at 325 seeds per m².
- 22-Nov-96 : B : Avadex Excel 15G at 15 kg.

97/R/CS/326 and 97/W/CS/326

Experimental diary:

Far Field I (W):

12-Dec-96 : B : Stomp 400 SC at 2.5 l with Isoproturon 500 at 1.0 l in
200 l.
16-May-97 : B : Halo at 2.0 l in 300 l.
08-Aug-97 : B : Barclay Gallup at 2.0 l in 300 l.
15-Aug-97 : B : Combine harvested.

NOTES: (1) No nitrogen fertilizer was applied in 1997.
(2) Crop and soil samples were taken in March and August for nitrogen and carbon content.

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	2.26
NORMAL	2.65
2 NORMAL	2.58
4 NORMAL	2.78
Mean	2.57

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

STRAW	
	0.158

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.223	8.7
GRAIN MEAN DM%		89.4	

STRAW TONNES/HECTARE

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

STRAW	
NONE	1.10
NORMAL	0.93
2 NORMAL	0.64
4 NORMAL	1.08
Mean	0.94

STRAW MEAN DM% 92.4

PLOT AREA HARVESTED 0.00324

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	2.60
NORMAL	2.21
2 NORMAL	2.02
4 NORMAL	2.02
Mean	2.21

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

STRAW
0.347

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.425	19.2
GRAIN MEAN DM%		89.0	

STRAW TONNES/HECTARE

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

STRAW	
NONE	1.45
NORMAL	0.97
2 NORMAL	1.32
4 NORMAL	1.21
Mean	1.24

STRAW MEAN DM% 61.3

PLOT AREA HARVESTED 0.00319