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96/R/CS/326 and 96/W/CS/326 Amounts of Straw - W. Wheat

Rothamsted Research

Rothamsted Research (1997) *96/R/CS/326 and 96/W/CS/326 Amounts of Straw - W. Wheat* ; Yields Of The Field Experiments 1996, pp 72 - 74 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

96/R/CS/326 and 96/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: N.J. Bradbury, M.J. Glendining, J.F. Jenkyn.

The tenth year, w. wheat.

For previous years see 87-95/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	9.2	7.9
2 NORMAL	Twice normal	18.4	15.8
4 NORMAL	Four times normal	36.7	31.6

Experimental diary:

Great Knott III (R):

- 10-Aug-95 : T : **STRAW** NORMAL, 2 NORMAL, 4 NORMAL: Straw applied.
- : T : **STRAW** NONE: Straw removed.
- 15-Aug-95 : B : Straw chopped.
- 29-Sep-95 : B : Ploughed.
- 05-Oct-95 : B : Heavy spring-tine cultivated.
- 06-Oct-95 : B : Rotary harrowed, Soissons, dressed Sibutol, drilled at 400 seeds per m².
- 30-Oct-95 : B : Avadex BW Granular at 22.5 kg.
- 14-Nov-95 : B : Draza at 5.5 kg.
- 07-Mar-96 : B : 34.5% N at 116 kg.
- 16-Apr-96 : B : 34.5% N at 174 kg.
- 25-Apr-96 : B : Ally at 30 g with Cheetah Super at 1.25 l in 200 l.
- 06-Jun-96 : B : Monicle at 1.0 l in 320 l.
- 08-Aug-96 : B : Combine harvested.

Far Field I (W):

- 10-Aug-95 : T : **STRAW** NORMAL, 2 NORMAL, 4 NORMAL: Straw applied.
- : T : **STRAW** NONE: Straw removed.
- 11-Aug-95 : B : Straw chopped.
- 13-Sep-95 : B : Ploughed. Rolled.
- 02-Oct-95 : B : Harvest at 3.0 l in 300 l.
- 09-Oct-95 : B : Rotary harrowed, Soissons, dressed Sibutol, drilled at 400 seeds per m².

96/R/CS/326 and 96/W/CS/326

Experimental diary:

Far Field I (W):

13-Nov-95 : B : Trump at 5.5 l in 200 l.
08-Mar-96 : B : 34.5% N at 116 kg.
25-Apr-96 : B : 34.5% N at 348 kg.
30-Apr-96 : B : Halo at 1.5 l in 200 l.
06-Jun-96 : B : Halo at 2.0 l in 300 l.
08-Aug-96 : B : Combine harvested.

NOTE: Straw was sampled for nitrogen content, grain was sampled for nitrogen content, quality and thousand grain weights.

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	6.92
NORMAL	7.14
2 NORMAL	7.19
4 NORMAL	7.33
Mean	7.14

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

STRAW
0.090

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.128	1.8
GRAIN MEAN DM% 87.2			
PLOT AREA HARVESTED 0.00311			

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	8.81
NORMAL	8.37
2 NORMAL	8.25
4 NORMAL	8.73
Mean	8.54

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

STRAW
0.330

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.404	4.7

GRAIN MEAN DM% 86.4

PLOT AREA HARVESTED 0.00319