

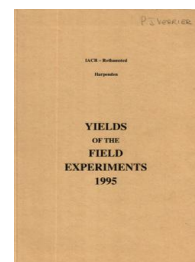
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95/R/CS/326 and 95/W/CS/326 Amounts of Straw - W. Wheat

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95/R/CS/326 and 95/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 ninth year, w. wheat.

For previous years see 87-94/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	6.5	3.8
2 NORMAL	Twice normal	13.0	7.6
4 NORMAL	Four times normal	26.0	15.2

Experimental diary:

Great Knott III (R)

- 16-Aug-94 : **T** : **STRAW** NORMAL, 2 NORMAL, 4 NORMAL: Straw applied.
 : **T** : **STRAW** NONE: Straw removed.
 : **B** : Straw and stubble chopped.
- 02-Sep-94 : **B** : PK as(0:20:32) at 1317 kg.
- 27-Sep-94 : **B** : Sting CT at 2.0 l in 200 l.
- 04-Oct-94 : **B** : Ploughed.
- 07-Oct-94 : **B** : Rolled.
- 10-Oct-94 : **B** : Spring-tine cultivated.
- 11-Oct-94 : **B** : Rotary harrowed, Soissons, dressed Beret 050FS, drilled at 380 seeds per m².
- 24-Nov-94 : **B** : Draza at 5.5 kg.
- 25-Nov-94 : **B** : Avadex BW Granular at 22.5 kg.
- 10-Mar-95 : **B** : 34.5% N at 118 kg.
- 16-Mar-95 : **B** : Stefes IPU at 5.0 l in 200 l.
- 11-Apr-95 : **B** : 34.5% N at 463 kg.
- 10-May-95 : **B** : Halo at 2.0 l in 200 l.
- 16-Jun-95 : **B** : Bravo 500 at 1.0 l with Silvacur at 0.5 l in 300 l.
- 04-Aug-95 : **B** : Combine harvested.

Far Field I (W)

- 24-Aug-94 : **T** : **STRAW** NORMAL, 2 NORMAL, 4 NORMAL: Straw applied.
 : **T** : **STRAW** NONE: Straw removed.
- 26-Aug-94 : **B** : Straw and stubble chopped.
- 08-Sep-94 : **B** : PK as (0:20:32) at 781 kg.

95/R/CS/326 and 95/W/CS/326

Experimental diary:

Far Field I (W)

26-Sep-94 : B : Gramoxone 100 at 3.0 l in 200 l.
29-Sep-94 : B : Ploughed.
30-Sep-94 : B : Rotary harrowed, Soissons, dressed Beret 050FS, drilled
at 350 seeds per m². Rolled.
02-Nov-94 : B : Avadex BW Granular at 22.5 kg.
02-Dec-94 : B : Stomp 400 at 3.3 l with Stefes IPU at 3.0 l in 200 l.
15-Mar-95 : B : 34.5% N at 116 kg.
28-Apr-95 : B : 34.5% N at 464 kg.
02-May-95 : B : Starane 2 at 1.0 l with Halo at 2.0 l in 200 l.
01-Jun-95 : B : Cyclone at 1.0 l in 300 l.
30-Jun-95 : B : Pirimicarb 50 DG at 280 g in 300 l.
02-Aug-95 : B : Combine harvested.

NOTES: Stubbles were sampled for dry matter in August 1994.
At Rothamsted soil was sampled in August 1994 for inorganic
nitrogen, microbial biomass nitrogen and carbon, nitrogen
mineralization and soil respiration measurements.
At Woburn soil was sampled in October 1994 for nitrogen
measurements.
Straw and grain yields were measured.

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

GRAIN TONNES/HECTARE

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

STRAW	
-	7.92
1	8.18
2	8.08
4	8.38
Mean	8.14

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

STRAW
0.143

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.203	2.5
GRAIN MEAN DM%	91.3		
PLOT AREA HARVESTED	0.00311		

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

GRAIN TONNES/HECTARE

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

STRAW

-	6.99
1	6.85
2	6.75
4	7.22
Mean	6.95

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

STRAW

0.359

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.440	6.3
GRAIN MEAN DM%	91.9		
PLOT AREA HARVESTED	0.00319		