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00/R/CS/326 and 00/W/CS/326 Amounts of Straw - W. Wheat

Rothamsted Research

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00/R/CS/326 and 00/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, P.C. Brookes.

The 14th year, w. wheat.

For previous years see 87-99/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	4.4	4.0
2 NORMAL	Twice normal	8.8	8.0
4 NORMAL	Four times normal	17.6	16.0

Experimental diary:

Great Knott III (R):

24-Aug-99 : T : NONE : Straw removed.
 : T : NORMAL, 2 NORMAL, 4 NORMAL : Straw applied and chopped.
16-Sep-99 : B : : Ploughed and furrow pressed.
17-Sep-99 : B : : Combination drilled, Hereward, tr. Sibutol, at 350 seeds/m² with the Accord drill. Rolled.
15-Nov-99 : B : : tm)Lexus 50 DF at 20 g in 200 l.
 : B : : tm)Stomp 400 SC at 2.5 l in 200 l.
 : B : : tm)Toppel 10 at 250 ml in 200 l.
09-Mar-00 : B : : 34.5% N at 145 kg.
06-Apr-00 : B : : Boxer at 100 ml in 200 l.
19-Apr-00 : B : : 34.5% N at 290 kg.
27-Apr-00 : B : : tm)Opus at 0.5 l in 200 l.
 : B : : tm)Unix at 0.5 kg in 200 l.
24-May-00 : B : : tm)Amistar at 0.8 l in 100 l.
 : B : : tm)Folicur at 0.75 l in 100 l.
12-Aug-00 : T : : Combine harvested.

Far Field I (W):

23-Aug-99 : T : NONE : Straw removed.
 : T : NORMAL, 2 NORMAL, 4 NORMAL : Straw applied and chopped.
20-Sep-99 : B : : Ploughed and furrow pressed.
01-Oct-99 : B : : Combination drilled, Hereward, tr. Sibutol, at 350 seeds/m² with the Nordsten drill.
11-Nov-99 : B : : Hallmark at 100 ml in 100 l.
19-Mar-00 : B : : Platform S at 1.0 kg in 200 l.
27-Apr-00 : B : : Sulphan (30.0% N, 7.6% S) at 333 kg.

00/R/CS/326 and 00/W/CS/326

Experimental diary:

Far Field I (W):

13-May-00 : B : : tm)Ally at 30 g in 200 l.
 : B : : tm)Starane 2 at 1.0 l in 200 l.
 20-May-00 : B : : Opus at 0.75 l in 200 l.
 21-Aug-00 : B : : Combine harvested.

NOTE: Grain and straw samples were analysed for nitrogen content.

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	7.10
NORMAL	7.18
2 NORMAL	7.51
4 NORMAL	7.57
Mean	7.34

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

STRAW
0.138

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.196	2.7
GRAIN MEAN DM% 88.5			

STRAW TONNES/HECTARE

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

STRAW	
NONE	4.79
NORMAL	4.82
2 NORMAL	4.96
4 NORMAL	5.71
Mean	5.07

STRAW MEAN DM% 81.1

PLOT AREA HARVESTED 0.00324

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	3.56
NORMAL	4.31
2 NORMAL	3.56
4 NORMAL	3.05
Mean	3.62

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

STRAW
0.432

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.530	14.6

GRAIN MEAN DM% 85.4

STRAW TONNES/HECTARE

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

STRAW	
NONE	2.37
NORMAL	3.41
2 NORMAL	3.11
4 NORMAL	3.09
Mean	3.00

STRAW MEAN DM% 76.4

PLOT AREA HARVESTED 0.00348