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98/R/CS/326 and 98/W/CS/326 Amounts of Straw - W. Wheat

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98/R/CS/326 and 98/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, J.F. Jenkyn.

The 12th year, w. wheat.

For previous years see 87-97/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	5.2	4.4
2 NORMAL	Twice normal	10.4	8.8
4 NORMAL	Four times normal	20.8	17.6

Experimental diary:

Great Knott III (R):

02-Sep-97 : T : **STRAW** NORMAL, 2 NORMAL, 4 NORMAL: Straw applied and chopped.
: T : **STRAW** NONE: Straw removed.
09-Sep-97 : B : PK as (0:20:32) at 1250 kg.
11-Sep-97 : B : Scythe LC at 3.0 l in 300 l.
08-Oct-97 : B : Ploughed.
22-Oct-97 : B : Rotary harrowed, Hereward, dressed Anchor, drilled at 380 seeds per m².
13-Jan-98 : B : Hawk at 2.5 l with Sprayprover at 1.0 l in 200 l.
13-Feb-98 : B : 34.5% N at 116 kg.
17-Mar-98 : B : Ally at 20 g with Alpha Briotril 24/16 at 0.5 l in 200 l.
27-Apr-98 : B : 34.5% N at 460 kg.
09-May-98 : B : Standon Tebuconazole at 0.7 l with Starane 2 at 0.5 l in 200 l.
28-May-98 : B : Opus at 0.7 l in 200 l.
12-Jun-98 : B : Bavistin DF at 0.5 kg with Folicur at 0.5 l in 100 l.
17-Aug-98 : B : Combine harvested.

98/R/CS/326 and 98/W/CS/326

Far Field I (W):

02-Sep-97 : T : STRAW NORMAL, 2 NORMAL, 4 NORMAL: Straw applied.
: T : STRAW NONE: Straw removed.
19-Sep-97 : B : Ploughed.
01-Oct-97 : B : Rolled, rotary harrowed, Hereward, dressed Sibutol,
drilled, at 325 seeds per m².
22-Oct-97 : B : Avadex BW Granular at 22.5 kg.
29-Jan-98 : B : Panther at 1.0 l with Atlas IPU at 1.0 l in 200 l.
11-Feb-98 : B : 34.5% N at 145 kg.
19-Mar-98 : B : Mn and Cu as Phosyn Manganese at 2.0 l with Profol
Copper at 0.25 l in 200 l.
30-Mar-98 : B : 34.5% N at 377 kg.
04-May-98 : B : Alto 100 SL at 0.6 l with Tripart Brevis at 2.0 l in
200 l.
21-May-98 : B : Ally at 20 g in 200 l.
31-May-98 : B : Opus at 0.8 l in 200 l.
12-Jun-98 : B : Folicur at 0.3 l with Bavistin DF at 0.3 kg in 200 l.
12-Aug-98 : B : Combine harvested.

NOTE: Samples of grain were analysed for thousand grain weight, hectolitre weight, Hagberg falling numbers and nitrogen content. Straw was sampled for nitrogen content.

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	8.61
NORMAL	8.71
2 NORMAL	8.75
4 NORMAL	9.13
Mean	8.80

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

STRAW
0.191

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.271	3.1
GRAIN MEAN DM%	86.6		

STRAW TONNES/HECTARE

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

STRAW	
NONE	5.81
NORMAL	6.01
2 NORMAL	6.12
4 NORMAL	6.68
Mean	6.15

STRAW MEAN DM% 89.4

PLOT AREA HARVESTED 0.00310

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	7.70
NORMAL	7.65
2 NORMAL	7.88
4 NORMAL	7.73
Mean	7.74

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

STRAW
0.403

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.494	6.4

GRAIN MEAN DM% 89.0

STRAW TONNES/HECTARE

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

STRAW	
NONE	5.61
NORMAL	5.11
2 NORMAL	6.13
4 NORMAL	5.28
Mean	5.53

STRAW MEAN DM% 90.5

PLOT AREA HARVESTED 0.00333