

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 2001

[Full Table of Content](#)

Yields of the
Classical
and other
Long-term Experiments
2001

IACR - Rothamsted

01/R/CS/326 and 01/W/CS/326 - Amount of Straw

Rothamsted Research

Rothamsted Research (2002) *01/R/CS/326 and 01/W/CS/326 - Amount of Straw ; Yields Of The Field Experiments 2001*, pp 47 - 50 - DOI: <https://doi.org/10.23637/ERADOC-1-258>

01/R/CS/326 and 01/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 15th year, w. wheat

For previous years see 87-00/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	5.1	3.0
2 NORMAL	Twice normal	10.2	6.0
4 NORMAL	Four times normal	20.4	12.0

Experimental diary:

Great Knott III (R):

16-Aug-00 : T : - : Straw/removed
22-Aug-00 : T : : Chopped loaded straw.
: T : 1 : Straw/normal, 15.5 kg per plot.
: T : 2 : Straw/2 x normal, 31.0 kg per plot.
: T : 4 : Straw/4 x normal, 62.0 kg per plot.
13-Oct-00 : B : : Ploughed, /e.
19-Oct-00 : B : : Combination drilled, Hereward, tr. Sibutol, at 350 s/m² with the Accord drill.
17-Nov-00 : B : : Decoy Wetex at 5.0 kg.
26-Mar-01 : B : : 33.5% N at 149 kg.
09-Apr-01 : B : : tm) Harmony M at 75 g in 100 l.
: B : : tm) Topik at 125 ml in 100 l.
: B : : tm) Toil at 1.0 l in 100 l.
05-May-01 : B : : 33.5% N at 299 kg.
08-May-01 : B : : tm) Amistar at 0.5 l in 100 l.
: B : : tm) Unix at 0.5 kg in 100 l.
: B : : tm) BASF 3C Chlormequat 720 at 1.25 l in 100 l.
: B : : tm) Moddus at 0.2 l in 100 l.
04-Jun-01 : B : : tm) Amistar at 0.7 l in 100 l.
: B : : tm) Folicur at 0.5 l in 100 l.
25-Aug-01 : B : : Combine harvested plots for yield.
: B : : Swathed straw.
29-Aug-01 : B : : Combine harvested, all remaining wheat.
: B : : Sampled, baled and weighed straw.
: B : : Swathed straw.

01/R/CS/326 and 01/W/CS/326

Experimental diary:

Far Field I (W):

Note: Grain & straw samples were taken for N analysis.

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

GRAIN TONNES/HECTARE

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

STRAW

NONE	6.55
NORMAL	6.50
2 NORMAL	6.31
4 NORMAL	6.26
Mean	6.40

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

STRAW

0.181

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

Stratum	d.f.	s.e.	cv%
Blocks.Plots	9	0.256	4.0

GRAIN MEAN DM% 86.8

STRAW TONNES/HECTARE

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

STRAW

NONE	2.51
NORMAL	2.52
2 NORMAL	2.43
4 NORMAL	2.50

Mean 2.49

STRAW MEAN DM% 91.8

PLOT AREA HARVESTED 0.00324

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	6.48
NORMAL	6.37
2 NORMAL	6.55
4 NORMAL	6.60
Mean	6.50

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

STRAW	
	0.311

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

Stratum	d.f.	s.e.	cv%
Blocks.Plots	6	0.381	5.9

GRAIN MEAN DM% 86.3

STRAW TONNES/HECTARE

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

STRAW	
NONE	3.23
NORMAL	3.47
2 NORMAL	3.97
4 NORMAL	3.67
Mean	3.59

STRAW MEAN DM% 89.4

PLOT AREA HARVESTED 0.00348