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92/R/CS/326 and 92/W/CS/326 Amounts of Straw - W. Oilseed Rape

Rothamsted Research

Rothamsted Research (1993) *92/R/CS/326 and 92/W/CS/326 Amounts of Straw - W. Oilseed Rape* ; Yields Of The Field Experiments 1992, pp 69 - 71 - DOI: <https://doi.org/10.23637/ERADOC-1-47>

92/R/CS/326 and 92/W/CS/326

AMOUNTS OF STRAW

Object: To study the effects of a range of amounts of straw incorporated into the soil on w.wheat - Rothamsted (R) Great Knott III, Woburn (W) Far Field I.

Sponsors: R.D. Prew, D.G. Christian, J.F. Jenkyn, E.T.G. Bacon.

The sixth year, w. rape.

For previous years see 87-91/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 seedbed (t per ha 85% DM), cumulative to previous annual dressings:

		R	W
NONE	None	-	-
NORMAL	Normal	2.5	4.2
2 NORMAL	Twice normal	5.0	8.4
4 NORMAL	Four times normal	10.0	16.8

Experimental diary:

Great Knott III (R)

- 27-Aug-91 : T : **STRAW** NORMAL, 2 NORMAL and 4 NORMAL: Straw applied.
- 28-Aug-91 : B : Straw and stubble chopped.
- 04-Sep-91 : B : Ploughed.
- 05-Sep-91 : B : Rotary harrowed, Falcon, dressed Lindex-Plus FS, drilled at 8.0 kg. Rolled.
- 06-Sep-91 : B : Butisan S at 2.5 l in 200 l.
- 13-Oct-91 : B : Pilot at 0.15 l with Cropspray 11 E at 2.5 l in 200 l.
- 19-Feb-92 : B : 34.5% N at 220 kg.
- 25-Mar-92 : B : 34.5% N at 290 kg.
- 09-Apr-92 : B : Sportak 45 at 1.1 l in 200 l.
- 15-Jul-92 : B : Reglone at 3.0 l with Farmon Blue at 0.26 l in 260 l.
- 22-Jul-92 : B : Combine harvested.

Far Field I (W)

- 28-Aug-91 : T : **STRAW** NORMAL, 2 NORMAL and 4 NORMAL: Straw applied.
- 30-Aug-91 : B : Straw and stubble chopped.
- 02-Sep-91 : B : Disced four times to 10 cm. Rolled.
- 05-Sep-91 : B : Rotary harrowed, Falcon, dressed Lindex-Plus FS, drilled at 7.0 kg.
- 12-Oct-91 : B : Pilot at 0.15 l with Cropspray 11 E at 2.0 l in 200 l.
- 06-Jan-92 : B : PK as (0:16:36) at 740 kg.
- 15-Jan-92 : B : Benazalox at 1.0 kg in 200 l.
- 16-Jan-92 : B : PK as (0:16:36) at 300 kg.
- 21-Feb-92 : B : 34.5% N at 220 kg.

92/R/CS/326 and 92/W/CS/326

Experimental diary:

Far Field I (W)

31-Mar-92 : B : 34.5% N at 290 kg.
01-Apr-92 : B : Lentagran 45 WP at 2.0 kg in 200 l.
03-May-92 : B : Sportak at 1.2 l in 200 l.
16-Jul-92 : B : Reglone at 3.0 l with Agral at 0.46 l in 400 l.
26-Jul-92 : B : Combine harvested.

NOTES: (1) From 1987 to 1991 effects were tested on w. wheat. In 1992 w. rape was grown in order to control grass weeds.
(2) Number of plants was estimated in autumn and spring. Dry weights were measured in spring. Individual seed weight and oil content were measured at harvest.

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	4.04
NORMAL	4.03
2 NORMAL	3.91
4 NORMAL	3.90
Mean	3.97

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

STRAW
0.108

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.153	3.9

GRAIN MEAN DM% 85.9

PLOT AREA HARVESTED 0.00307

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

GRAIN TONNES/HECTARE

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

STRAW	
NONE	3.29
NORMAL	3.32
2 NORMAL	3.11
4 NORMAL	3.46
Mean	3.29

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

STRAW
0.293

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.359	10.9
GRAIN MEAN DM%	85.9		
PLOT AREA HARVESTED	0.00317		