

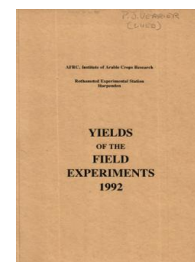
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92/R/CS/309 and 92/W/CS/309 Long-term Straw Incorporation - W. Oilseed Rape

Rothamsted Research

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92/R/CS/309 and 92/W/CS/309

Experimental diary:

Great Knott III (R):

- 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):

- 25-Aug-91 : T : **STRAW CHOPPED**: Straw chopped and spread.
- 30-Aug-91 : T : **STRAW BURNT** : Straw burnt.
- : T : **CULTIVTN** TINE 10: Heavy spring-tine cultivated to 10 cm.
- : T : **CULTIVTN** TN10PL20: Heavy spring-tine cultivated to 10 cm and ploughed to 20 cm.
- : T : **CULTIVTN** TN10TN20: Heavy spring-tine cultivated to 10 cm and again to 20 cm.
- : T : **CULTIVTN** PLOUGH20: Ploughed to 20 cm.
- 02-Sep-91 : T : **CULTIVTN** TINE 10, TN10TN20: Disced to 10 cm.
- 02-Sep-91 : B : 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 : Benazolox 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.
- 31-Mar-92 : B : 34.5% N at 290 kg.
- 03-May-92 : B : Sportak at 1.25 l in 200 l.
- 16-Jul-92 : B : Reglone at 3.0 l with Agral at 0.40 l in 400 l.
- 26-Jul-92 : B : Combine harvested.

- NOTES:** (1) From 1985 to 1991 effects were tested on w. wheat. In 1992 w. rape was grown in order to control grass weeds.
- (2) Number of plants and dry weights were estimated in autumn and spring. Individual seed weight and oil content were measured at harvest.

92/R/CS/309 GREAT KNOTT III (R)

GRAIN TONNES/HECTARE

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

CULTIVTN STRAW	TINE 10	TN10PL20	TN10TN20	PLOUGH20	Mean
BURNT	3.86	3.72	3.78	3.64	3.75
CHOPPED	4.07	3.96	4.21	3.83	4.02
Mean	4.00	3.88	4.07	3.76	3.93

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

STRAW	CULTIVTN	STRAW CULTIVTN	
		0.189	min.rep
0.082	0.109	0.164	max-min
		0.134	max.rep

STRAW
min.rep BURNT only
max-min BURNT v CHOPPED
max.rep CHOPPED only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	37	0.267	6.8
GRAIN MEAN DM%	87.0		
PLOT AREA HARVESTED	0.00644		

92/W/CS/309 FAR FIELD I (W)

GRAIN TONNES/HECTARE

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

CULTIVTN	TINE 10	TN10PL20	TN10TN20	PLOUGH20	Mean
STRAW					
BURNT	2.55	2.21	2.75	2.75	2.56
CHOPPED	2.14	2.58	2.02	2.90	2.41
Mean	2.28	2.45	2.26	2.85	2.46

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

STRAW	CULTIVTN	STRAW	CULTIVTN
		0.579	min.rep
0.251	0.334	0.501	max-min
		0.409	max.rep

STRAW
min.rep BURNT only
max-min BURNT v CHOPPED
max.rep CHOPPED only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.579	23.5
GRAIN MEAN DM%	87.5		
PLOT AREA HARVESTED	0.00638		