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00/R/CS/311 Effects of Shallow Straw Incorporation - W. Wheat, S. Oilseed Rape

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00/R/CS/311

EFFECTS OF SHALLOW STRAW INCORPORATION

Object: To study the effects on eyespot of incorporating wheat and rape debris using non-inversion tillage - West Barnfield I.

Sponsors: J.F. Jenkyn, R.J. Gutteridge, A.D. Todd.

The 16th year, w. wheat, s. oilseed rape.

For previous years see 85-99/R/CS/311.

Design: 6 plots of 3 treatments (duplicated) split into 8.

Whole plot dimensions: 4.5 x 12.0.

Treatments: Combinations of:-

1. **STRAW** (on 'columns') Treatments to straw of previous crop:

BU	Burnt (duplicated)
BA	Baled and removed (duplicated)
CH	Chopped and incorporated (duplicated)

2. **GLYPHOS** (on 'rows') Glyphosate and crop:

-	S. rape
G8	W. wheat after glyphosate in 1998
(RA)	W. wheat after s. rape in 1999
G9	W. wheat after glyphosate in 1999

NOTE: In diary **GLYPHOS** treatments are referred to by crop; s. rape as RA and w. wheat as WW.

Experimental diary:

20-Aug-99 : T : BA : Wheat straw baled and removed.
 : T : CH : Wheat straw chopped and incorporated.
23-Aug-99 : T : BU : Wheat straw burnt and ash incorporated with discs to 10 cm.
24-Aug-99 : B : : Muriate of potash at 600 kg.
26-Aug-00 : T : BA : Rape straw baled and removed.
06-Sep-00 : T : CH : Rape straw chopped and incorporated.
 : T : BU : Rape straw burnt and ash incorporated with discs to 10 cm.
21-Sep-99 : B : : tm)PDQ at 3.0 l in 200 l.
 : B : : tm)Enhance Low Foam at 100 ml in 200 l.
11-Oct-99 : B : : Disced twice.
14-Oct-99 : T : WW : Combination drilled, Hereward, tr. Sibutol, at 380 seeds/m² with the Accord drill.
15-Oct-99 : T : WW : Rolled.
 : T : WW : Prebane at 3.0 l in 200 l.
12-Nov-99 : T : WW : tm)Lexus 50 DF at 20 g in 200 l.
 : T : WW : tm)Stomp 400 SC at 2.5 l in 200 l.
 : T : WW : tm)Toppel 10 at 250 ml in 200 l.
07-Mar-00 : T : WW : 34.5% N at 232 kg.
15-Mar-00 : T : RA : Sting CT at 4.0 l in 200 l.
21-Mar-00 : T : RA : Disced. Combination drilled, Starlight, recleaned, at 180 seeds/m², with the Accord drill. Rolled.

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Experimental diary:

21-Mar-00 : T : RA : Butisan S at 1.0 l in 200 l.
 08-Apr-00 : B : : Hallmark with Zeon Technology at 75 ml in 200 l.
 23-Apr-00 : B : : Hallmark with Zeon Technology at 75 ml in 200 l.
 27-Apr-00 : T : WW : 34.5% N at 348 kg.
 : T : WW : tm)Opus at 0.5 l in 200 l.
 : T : WW : tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.
 29-Apr-00 : T : RA : Genesis at 7.0 kg.
 10-May-00 : T : RA : 34.5% N at 435 kg.
 22-May-00 : T : WW : Opus at 0.75 l in 100 l.
 27-Jun-00 : B : : Hand rogued wild oats, started.
 29-Jun-00 : B : : Hand rogued wild oats, completed.
 17-Aug-00 : T : WW : Combine harvested.
 06-Sep-00 : T : RA : Combine harvested.

Previous crops: W. wheat 1998, s. rape and w. wheat 1999.

NOTE: All plots were sampled in July to assess root and stem base diseases.

W. WHEAT

GRAIN TONNES/HECTARE

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

GLYPHOS	G8	G9	(RA)	Mean
STRAW				
BU	8.65	9.33	9.18	9.05
BA	6.67	7.77	8.67	7.70
CH	7.04	8.63	8.29	7.98
Mean	7.46	8.58	8.71	8.25

GRAIN MEAN DM% 86.0

SUB-PLOT AREA HARVESTED 0.00288

S. RAPE

GRAIN TONNES/HECTARE

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

STRAW	
BU	1.22
BA	1.03
CH	0.86
Mean	1.04

GRAIN MEAN DM% 73.8

SUB-PLOT AREA HARVESTED 0.00288