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## Yields of the Field Experiments 2000

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

#### **Rothamsted Research**

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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/m<sup>2</sup> 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/m<sup>2</sup>, 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
<b>STRAW</b>				
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 \*\*\*\*\*

<b>STRAW</b>	
BU	1.22
BA	1.03
CH	0.86
Mean	1.04

GRAIN MEAN DM% 73.8

SUB-PLOT AREA HARVESTED 0.00288