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## Yields of the Field Experiments 2000

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### 00/R/WW/7 Septoria Leaf Blotch on Winter Wheat

#### Rothamsted Research

Rothamsted Research (2001) *00/R/WW/7 Septoria Leaf Blotch on Winter Wheat* ; Yields Of The Field Experiments 2000, pp 124 - 125 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/WW/7

WINTER WHEAT

SEPTORIA LEAF BLOTCH ON WINTER WHEAT

**Object:** To study the role of wind-dispersed ascospores and splash-dispersed conidia in the epidemiology of septoria leaf blotch on winter wheat - Harwoods Piece

**Sponsors:** A.H. Rajasab, B.D.L. Fitt, W.Z. Tan.

**Design:** 3 randomised blocks of 2 x 2 x 2 plots

**Whole plot dimensions:** 3.0 x 15.0.

**Treatments:** All combinations of:-

1. **GS32** Fungicides at growth stage 32:  
32- Flutriafol  
32S Azoxystrobin with flutriafol
2. **GS39** Fungicides at growth stage 39:  
39- Flutriafol  
39S Azoxystrobin with flutriafol
3. **SEEDTRT** Seed treatment:  
- None  
F Fluquinconazole

**Experimental diary:**

22-Jul-99 : B : : Ploughing and furrow pressing started.  
23-Jul-99 : B : : Ploughing and furrow pressing completed.  
08-Sep-99 : T : - : Combination drilled, Riband, recleaned, at 200 seeds/m<sup>2</sup> with the Accord drill.  
: T : F : Combination drilled, Riband, tr. fluquinconazole, at 200 seeds/m<sup>2</sup> with the Accord drill.  
: B : : Rolled.  
22-Sep-99 : B : : Genesis at 5.0 kg.  
15-Oct-99 : B : : tm)Lexus 50 DF at 20 g in 200 l.  
: B : : tm)Stomp 400 SC at 2.5 l in 200 l.  
: B : : tm)Cyberkill 10 at 250 ml in 200 l.  
10-Mar-00 : B : : 34.5% N at 145 kg.  
25-Apr-00 : B : : tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.  
: B : : tm)Moddus at 0.2 l in 200 l.  
27-Apr-00 : T : 32- : Pointer at 1.0 l in 220 l.  
: T : 32S : tm)Amistar at 0.6 l with Pointer at 1.0 l in 220 l.  
04-May-00 : B : : 34.5% N at 435 kg.  
10-May-00 : B : : Plantvax 20 at 2.0 l in 100 l.  
20-May-00 : T : 39- : Pointer at 1.0 l in 220 l.  
: T : 39S : tm)Amistar at 0.8 l with Pointer at 1.0 l in 220 l.  
16-Aug-00 : B : : Combine harvested.

Previous crops: W. barley 1998, set-aside 1999.

00/R/WW/7

**NOTE:** Samples were taken weekly from April to July to record the development of *tritici* leaf blotch.

**GRAIN TONNES/HECTARE**

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

GS32	32-	32S	Mean
<b>SEEDTRT</b>			
-	7.93	9.48	8.70
F	7.38	8.68	8.03
Mean	7.66	9.08	8.37
<b>GS39</b>	39-	39S	Mean
<b>SEEDTRT</b>			
-	7.89	9.52	8.70
F	6.89	9.18	8.03
Mean	7.39	9.35	8.37
<b>GS39</b>	39-	39S	Mean
<b>GS32</b>			
32-	6.68	8.63	7.66
32S	8.10	10.06	9.08
Mean	7.39	9.35	8.37
<b>SEEDTRT</b>	<b>GS39</b>	39-	39S
-	<b>GS32</b>		
	32-	7.18	8.68
	32S	8.60	10.36
F	32-	6.19	8.58
	32S	7.60	9.77

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

<b>SEEDTRT</b>	<b>GS32</b>	<b>GS39</b>	<b>SEEDTRT</b>
			<b>GS32</b>
0.189	0.189	0.189	0.267
<b>SEEDTRT</b>	<b>GS32</b>	<b>SEEDTRT</b>	
	<b>GS39</b>	<b>GS32</b>	
		<b>GS39</b>	
0.267	0.267	0.378	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.463	5.5
GRAIN MEAN DM%	85.8		
PLOT AREA HARVESTED	0.00360		