

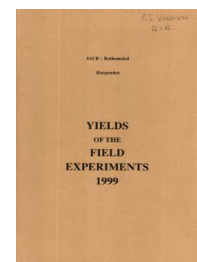
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## Yields of the Field Experiments 1999

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### 99/R/WW/12 Fungicidal and Physiological Activity of Strobilurins on Winter Wheat

#### Rothamsted Research

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99/R/WW/9

**GRAIN TONNES/HECTARE**

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

<b>SEEDRATE</b> <b>SEEDTRT</b>	R1	R2	R3	Mean
S	7.35	7.83	8.17	7.78
B	8.00	7.64	8.61	8.09
J	8.46	8.27	8.87	8.53
Mean	7.94	7.92	8.55	8.13

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

<b>SEEDTRT</b>	<b>SEEDRATE</b>	<b>SEEDTRT</b> <b>SEEDRATE</b>
0.256	0.256	0.444

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	26	0.628	7.7
GRAIN MEAN DM%	88.7		
PLOT AREA HARVESTED	0.00227		

99/R/WW/12

WINTER WHEAT

FUNGICIDAL AND PHYSIOLOGICAL ACTIVITY OF STROBILURINS ON WINTER WHEAT

**Object:** To compare the effects of two strobilurin fungicides on yield, grain quality, disease control, green area duration and nitrogen translocation - Little Hoos.

**Sponsors:** C.G. Peters, E. Stockdale, I.F. Shield, J.F. Jenkyn, J.W. Cussans, P.B. Barraclough.

**Design:** 4 randomised blocks of 6 plots.

**Whole plot dimensions:** 3.0 x 20.0.

**Treatments:**

FUNGICIDE	Fungicide applied at growth stage (GS) 32 repeated at GS39:
-	None
OC	Opus and Corbel
E	Ensign
AC	Amistar and Corbel
M	Mantra
AOC	Amistar with Opus and Corbel

**Experimental diary:**

11-Sep-98 : B : : Ploughed and furrow pressed, started.  
14-Sep-98 : B : : Ploughed and furrow pressed, completed.  
19-Sep-98 : B : : Rotary harrowed.  
22-Sep-98 : B : : Tiger 90 at 15 kg.  
23-Sep-98 : B : : Combination drilled, Hereward, tr. Beret Gold, at 300 seeds/m<sup>2</sup> with the Accord drill.  
25-Sep-98 : B : : Rolled.  
09-Mar-99 : B : : tm)Isoguard at 1.0 l in 200 l.  
: B : : tm)Unite A at 0.125 l and Unite B at 1.0 l in 200 l.  
: B : : tm)Cropoil at 1.0 l in 200 l.  
16-Mar-99 : B : : 34.5% N at 145 kg.  
14-Apr-99 : B : : 34.5% N at 435 kg.  
19-Apr-99 : T : AC : Amistar at 1.0 l with Corbel at 0.33 l in 220 l.  
: T : AOC : Amistar at 1.0 l with Opus at 1.0 l and Corbel at 0.33 l in 220 l.  
: T : E : Ensign at 0.83 l in 220 l.  
: T : M : Mantra at 1.0 l with Corbel at 0.13 l in 220 l.  
: T : OC : Opus at 1.0 l with Corbel at 0.33 l in 220 l.  
19-May-99 : B : : tm)Sypex at 1.5 l in 200 l.  
: B : : tm)Enhance at 80 ml in 200 l.  
27-May-99 : T : AC : Amistar at 1.0 l with Corbel at 0.33 l in 220 l.  
: T : AOC : Amistar at 1.0 l with Opus at 1.0 l and Corbel at 0.33 l in 220 l.  
: T : E : Ensign at 0.83 l in 220 l.  
: T : M : Mantra at 1.0 l with Corbel at 0.13 l in 220 l.  
: T : OC : Opus at 1.0 l with Corbel at 0.33 l in 220 l.  
06-Aug-99 : B : : Combine harvested.

Previous crops: W. rape and turnip rape 1997, w. oats 1998.