

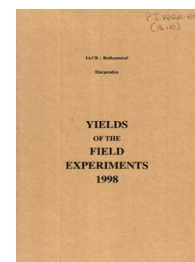
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## Yields of the Field Experiments 1998

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### 98/R/RAW/3 Varieties, Fungicide and Disease - W. Oilseed Rape

#### Rothamsted Research

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98/R/RAW/3

WINTER OILSEED RAPE

VARIETIES, FUNGICIDE AND DISEASE

**Object:** To study the development of light leaf spot (*Pyrenopeziza brassicae*) and stem canker (*Leptosphaeria maculans*) and to measure yield loss under various fungicide regimes - Summerdells II.

**Sponsors:** B.D.L. Fitt, J. Steed.

**Design:** 3 blocks of 10 plots split into 2.

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

**Treatments:**

Whole plots

1. **FUNGICIDE** Fungicide rate (kg) and timing:
- |    |   |
|----|---|
| -  | None  |
| R  | Tebuconazole at 0.125 kg monthly October to April |
| O  | Tebuconazole at 0.25 kg in October                |
| N  | Tebuconazole at 0.25 kg in November               |
| D  | Tebuconazole at 0.25 kg in December               |
| OS | Tebuconazole at 0.125 kg in October and spring    |
| NS | Tebuconazole at 0.125 kg in November and spring   |
| DS | Tebuconazole at 0.125 kg in December and spring   |
| SF | Tebuconazole at 0.25 kg in spring                 |
| FF | Tebuconazole at 0.25 kg during flowering          |

Sub plots

2. **CULTIVAR** Variety:
- |   |         |
|---|---------|
| B | Bristol |
| C | Capitol |

**Experimental diary:**

- 11-Aug-97 : B : Disced.  
15-Aug-97 : B : Ploughed and furrow pressed.  
29-Aug-97 : T : **CULTIVAR** B: Rotary harrowed, Bristol, dressed Lindex-  
Plus FS Seed Treatment, drilled at 120 seeds per m<sup>2</sup>.  
29-Aug-97 : T : **CULTIVAR** C: Rotary harrowed, Capitol, dressed Lindex-  
Plus FS Seed Treatment, drilled at 120 seeds per m<sup>2</sup>.  
24-Sep-97 : B : Cyperkill 10 at 250 ml in 200 l.  
03-Oct-97 : B : Butisan S at 1.5 l in 200 l.  
23-Oct-97 : T : **FUNGICIDE** R, OS: Folicur at 0.5 l in 260 l.  
: T : **FUNGICIDE** O: Folicur at 1.0 l in 260 l.  
07-Nov-97 : B : Cyperkill 10 at 250 ml in 200 l.  
21-Nov-97 : T : **FUNGICIDE** R, NS: Folicur at 0.5 l in 200 l.  
: T : **FUNGICIDE** N: Folicur at 1.0 l in 200 l.  
14-Dec-97 : T : **FUNGICIDE** R, DS: Folicur at 0.5 l in 200 l.

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**Experimental diary:**

14-Dec-97 : T : **FUNGCIDE** D: Folicur at 1.0 l in 200 l.  
23-Jan-98 : T : **FUNGCIDE** R: Folicur at 1.0 l in 220 l.  
04-Feb-98 : B : 34.5% N at 290 kg.  
19-Feb-98 : B : Laser at 0.75 l with Chiltern Cropoil at 1.0 l in 100 l.  
25-Feb-98 : T : **FUNGCIDE** R: Folicur at 1.0 l in 220 l.  
02-Mar-98 : B : 34.5% N at 350 kg.  
20-Mar-98 : T : **FUNGCIDE** SF: Folicur at 1.0 l in 200 l.  
20-Mar-98 : T : **FUNGCIDE** R: Folicur at 0.5 l in 200 l.  
22-Apr-98 : T : **FUNGCIDE** FF: Folicur at 1.0 l in 200 l.  
08-May-98 : B : Fastac at 200 ml in 260 l.  
15-Jul-98 : B : Reglone at 3.0 l with Headland Enhance LF at 400 ml in  
400 l.  
22-Jul-98 : B : Combine harvested.

Previous crops: W. wheat 1996, w. barley 1997.

**NOTE:** Plant samples were taken monthly from October to July for disease assessments. Oil content and grain specific weight were measured at harvest.

98/R/RAW/3

**GRAIN (AT 90% DRY MATTER) TONNES/HECTARE**

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

<b>CULTIVAR FUNGIDE</b>	B	C	Mean
-	2.47	3.09	2.78
R	4.34	4.37	4.35
O	2.77	3.57	3.17
N	2.88	3.35	3.11
D	2.80	3.44	3.12
OS	3.29	3.98	3.63
NS	3.41	3.76	3.58
DS	3.37	3.93	3.65
SF	3.66	3.88	3.77
FF	3.47	3.70	3.59
Mean	3.25	3.71	3.48

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

	<b>FUNGIDE</b>	<b>CULTIVAR</b>	<b>FUNGIDE CULTIVAR</b>
	0.102	0.070	0.187
Except when comparing means with the same level(s) of			
<b>FUNGIDE</b>			0.222

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	20	0.272	7.8
GRAIN MEAN DM%	88.2		
SUB-PLOT AREA HARVESTED	0.00391		