

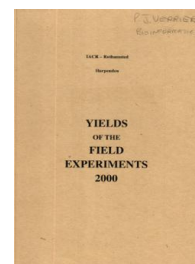
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## Yields of the Field Experiments 2000

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### 00/R/RAW/4 Control of Stem Canker - W. Oilseed Rape

#### Rothamsted Research

Rothamsted Research (2001) *00/R/RAW/4 Control of Stem Canker - W. Oilseed Rape ; Yields Of The Field Experiments 2000*, pp 148 - 150 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/RAW/4

# WINTER OILSEED RAPE

## CONTROL OF STEM CANKER

**Object:** To test fungicides to control stem canker (*Leptosphaeria maculans*) - Great Knott II.

**Sponsors:** B.D.L. Fitt, J. Steed, J.S. West, S.J. Welham.

**Design:** 3 randomised blocks of 15 + 4 + 2 plots.

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

**Treatments:**

FUNGICIDE	Fungicide combinations and timing							
	05-Oct-99	25-Oct	29-Oct	3-Nov	13-Dec	20-Jan-00	3-Feb	18-Feb
1	-	-	-	-	-	-	-	-
2	✓	-	-	-	-	-	-	-
3	-	-	-	✓	-	-	-	-
4	-	-	-	-	✓	-	-	-
5	-	-	-	-	-	✓	-	-
2+3	✓	-	-	✓	-	-	-	-
2+4	✓	-	-	-	✓	-	-	-
2+5	✓	-	-	-	-	✓	-	-
3+4	-	-	-	✓	✓	-	-	-
3+5	-	-	-	✓	-	✓	-	-
4+5	-	-	-	-	✓	✓	-	-
2+3+4	✓	-	-	✓	✓	-	-	-
2+3+5	✓	-	-	✓	-	✓	-	-
2+4+5	✓	-	-	-	✓	✓	-	-
3+4+5	-	-	-	✓	✓	✓	-	-
2+3+4+5	✓	-	-	✓	✓	✓	-	-
2WKS>2+3+4+5	-	✓	-	✓	✓	✓	-	-
4WKS>2+3+4+5	-	-	✓	✓	✓	✓	-	-
2+3+4+2WKS>5	✓	-	-	✓	✓	-	✓	-
2+3+4+4WKS>5	✓	-	-	✓	✓	-	-	✓

**NOTE:** All fungicide treatments were difenoconazole at 62.5 g with carbendazim at 125 g as Plover 250 EC and Bavistin DF in 220 l.

### Experimental diary:

15-Jul-99 : B : : Subsoiled.  
16-Jul-99 : B : : Ploughing and furrow pressing started.  
19-Jul-99 : B : : Ploughing and furrow pressing completed.  
26-Jul-99 : B : : Rolled.  
05-Aug-99 : B : : Rotary harrowed.  
27-Aug-99 : B : : Combination drilled, Apex, tr. Lindex-Plus FS Seed Treatment, at 120 seeds/m<sup>2</sup> with the Accord drill.  
: B : : tm)Scythe at 2.0 l in 200 l.  
: B : : tm)Enhance Low Foam at 100 ml in 200 l.  
28-Aug-99 : B : : Rolled.  
29-Aug-99 : B : : tm)Alpha Trifluralin 48 EC at 2.0 l in 200 l.  
: B : : tm)Katamaran at 2.0 l in 200 l.  
30-Aug-99 : B : : PBI Slug Pellets at 8.0 kg.

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**Experimental diary:**

05-Oct-99 : T : : Spray treatments applied.  
08-Oct-99 : B : : Genesis at 5.0 kg.  
14-Oct-99 : B : : tm)Hallmark at 100 ml in 200 l.  
: B : : tm)Enhance Low Foam at 60 ml in 200 l.  
20-Oct-99 : B : : 34.5% N at 87 kg.  
25-Oct-99 : T : : Spray treatment applied.  
29-Oct-99 : T : : Spray treatment applied.  
03-Nov-99 : T : : Spray treatments applied.  
13-Dec-99 : T : : Spray treatments applied.  
20-Jan-00 : T : : Spray treatments applied.  
03-Feb-00 : T : : Spray treatment applied.  
09-Feb-00 : B : : Sulphan (30.0% N, 7.6% S) at 166 kg.  
18-Feb-00 : T : : Spray treatment applied.  
15-Mar-00 : B : : Sulphan (30.0% N, 7.6% S) at 433 kg.  
: B : : Hallmark with Zeon Technology at 75 ml in 200 l.  
12-Jul-00 : B : : tm)Enhance Low Foam at 400 ml in 400 l.  
: B : : tm)Reglone at 3.0 l in 400 l.  
20-Jul-00 : B : : Combine harvested.

Previous crops: Peas 1998, set-aside 1999.

**NOTE:** Samples were taken in October, November, January, February, March, June and July for assessments of diseases, particularly light leaf spot, phoma and stem canker.

00/R/RAW/4

GRAIN TONNES/HECTARE

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

FUNGIDE	
1	3.75
2	3.65
3	3.91
4	3.67
5	3.85
2+3	4.22
2+4	3.96
2+5	4.12
3+4	4.46
3+5	4.40
4+5	4.41
2+3+4	4.51
2+3+5	4.35
2+4+5	3.99
3+4+5	4.54
2+3+4+5	4.57
2WKS>2+3+4+5	4.59
4WKS>2+3+4+5	4.64
2+3+4+2WKS>5	4.45
2+3+4+4WKS>5	4.34
Mean	4.20

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

FUNGIDE	
0.219	min.rep
0.190	max-min

FUNGIDE	
Min.rep	Any of the remainder
Max-min	1 v any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	41	0.269	6.4
GRAIN MEAN DM%	89.0		
PLOT AREA HARVESTED	0.00408		