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

Rothamsted Research

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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/m² 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.

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GRAIN TONNES/HECTARE

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

FUNGCIDE	
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 ***

FUNGCIDE	
0.219	min.rep
0.190	max-min

FUNGCIDE
 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		