

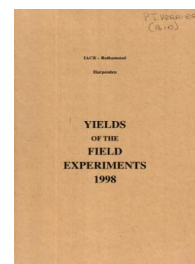
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98/R/RAW/3 Varieties, Fungicide and Disease - W. Oilseed Rape

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 m².
29-Aug-97 : T : **CULTIVAR** C: Rotary harrowed, Capitol, dressed Lindex-
Plus FS Seed Treatment, drilled at 120 seeds per m².
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.

98/R/RAW/3

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 *****

CULTIVAR FUNGIDE	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 ***

FUNGIDE	CULTIVAR	FUNGIDE CULTIVAR
0.102	0.070	0.187
Except when comparing means with the same level(s) of		
FUNGIDE		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