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

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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		