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

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97/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 - Little Hoos.

Sponsors: B.D.L. Fitt.

Design: 3 blocks of 2 plots split into 10.

Whole plot dimensions: 3.0 x 20.0.

Treatments:

- | | |
|--------------|---|
| 1. CULTIVAR | Variety: |
| B | Bristol |
| C | Capitol |
| 2. 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 |

Experimental diary:

- 23-Jul-96 : B : Chalk at 2.5 t.
26-Jul-96 : B : Ploughed and furrow pressed. Rolled.
30-Aug-96 : B : Spring-tine cultivated.
 : T : CULTIVAR B: Rotary harrowed, Bristol, dressed Lindex-Plus FS, drilled at 120 seeds per m².
 : T : CULTIVAR C: Rotary harrowed, Capitol, dressed Lindex-Plus FS, drilled at 120 seeds per m².
 : B : Rolled.
25-Sep-96 : B : Irrigated 25 mm.
07-Oct-96 : B : Decis at 250 ml in 200 l.
09-Oct-96 : B : Draza at 5.5 kg.
23-Oct-96 : B : Draza at 5.5 kg.
30-Oct-96 : B : Butisan S at 1.5 l in 200 l.
 : T : FUNGICIDE R, OS: Folicur at 0.5 l in 220 l.
 : T : FUNGICIDE O: Folicur at 1.0 l in 220 l.
21-Nov-96 : T : FUNGICIDE R, NS: Folicur at 0.5 l in 220 l.
 : T : FUNGICIDE N: Folicur at 1.0 l in 220 l.
16-Dec-96 : T : FUNGICIDE R, DS: Folicur at 0.5 l in 220 l.
 : T : FUNGICIDE D: Folicur at 1.0 l in 220 l.

97/R/RAW/3

Experimental diary:

24-Jan-97 : T : FUNGCIDE R: Folicur at 0.5 l in 220 l.
 27-Feb-97 : T : FUNGCIDE R: Folicur at 0.5 l in 220 l.
 28-Feb-97 : B : 34.5% N at 175 kg.
 18-Mar-97 : B : 34.5% N at 350 kg.
 24-Mar-97 : T : FUNGCIDE R, OS, NS, DS: Folicur at 0.5 l in 220 l.
 : T : FUNGCIDE S: Folicur at 1.0 l in 220 l.
 09-Apr-97 : B : Fastac at 200 ml in 300 l.
 22-Apr-97 : T : FUNGCIDE F: Folicur at 1.0 l in 200 l.
 : T : FUNGCIDE R: Folicur at 0.5 l in 200 l.
 16-Jul-97 : B : Reglone at 3.0 l with Vassgro Non-ionic at 392 ml in
 400 l.
 23-Jul-97 : B : Combine harvested.

Previous crops: W. wheat 1995, set-aside 1996.

NOTE: Samples were taken monthly to assess levels of disease. Oil content of grain was measured after harvest.

GRAIN TONNES/HECTARE

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

CULTIVAR FUNGCIDE	B	C	Mean
-	3.96	5.00	4.48
R	5.35	5.26	5.30
O	4.69	5.27	4.98
N	4.43	5.44	4.93
D	4.46	5.25	4.85
OS	4.76	5.48	5.12
NS	4.64	5.71	5.17
DS	4.79	5.47	5.13
SF	4.61	5.37	4.99
FF	4.43	5.54	4.99
Mean	4.61	5.38	4.99

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

FUNGCIDE	CULTIVAR*
	FUNGCIDE
0.122	0.172

* Within the same level of CULTIVAR only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	36	0.211	4.2
GRAIN MEAN DM%	92.2	SUB-PLOT AREA HARVESTED 0.00408	