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Yields of the Field Experiments 1997



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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 C	Bristol Capitol
2. FUNGCIDE	Fungicide rate (kg) and timing:
_	None
R	Tebuconazole at 0.125 kg monthly October to April
0	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:

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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 1.
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 1 in 200 1.
          : T : FUNGCIDE R, OS: Folicur at 0.5 1 in 220 1.
          : T : FUNGCIDE 0: Folicur at 1.0 1 in 220 1.
21-Nov-96 : T : FUNGCIDE R, NS: Folicur at 0.5 1 in 220 1.
          : T : FUNGCIDE N: Folicur at 1.0 1 in 220 1.
16-Dec-96 : T : FUNGCIDE R, DS: Folicur at 0.5 1 in 220 1.
          : T : FUNGCIDE D: Folicur at 1.0 1 in 220 1.
```

97/R/RAW/3

Experimental diary:

24-Jan-97 : T : FUNGCIDE R: Folicur at 0.5 1 in 220 1. 27-Feb-97 : T : FUNGCIDE R: Folicur at 0.5 1 in 220 1.

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 1 in 220 1.

: T : FUNGCIDE S: Folicur at 1.0 1 in 220 1.

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 1 in 200 1.

16-Jul-97 : B : Reglone at 3.0 1 with Vassgro Non-ionic at 392 ml in 400 1.

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	В	C	Mean
FUNGCIDE			
-	3.96	5.00	4.48
R	5.35	5.26	5.30
0	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