

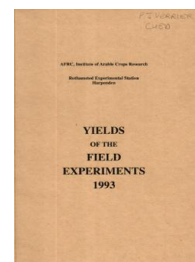
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93/R/RAW/5 Disease Forecasting and Yield Loss - W. Oilseed Rape

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93/R/RAW/5

WINTER OILSEED RAPE

DISEASE FORECASTING AND YIELD LOSS

Object: To investigate the relationship between the timing and intensity of various diseases, crop development and yield loss - Fosters ex-Ley Arable.

Sponsors: H.A. McCartney, B.D.L. Fitt, M.E. Lacey, G. Murray.

Design: 3 randomised blocks of 25 plots.

Whole plot dimensions: 3.0 x 25.0.

Treatments:

FUNGFREQ Prochloraz, iprodione and thiophanate-methyl on the following dates:

TREATMENT NUMBER	14 OCT	04 NOV	07 DEC	08 JAN	29 JAN	23 FEB	24 MAR	19 APR	18 MAY	22 JUN	12 JUL
1	-	-	-	-	-	-	-	-	-	-	-
2	✓	-	-	-	-	-	-	-	-	-	-
3	✓	✓	-	-	-	-	-	-	-	-	-
4	✓	✓	✓	-	-	-	-	-	-	-	-
5	✓	✓	✓	✓	-	-	-	-	-	-	-
6	✓	✓	✓	✓	✓	-	-	-	-	-	-
7	✓	✓	✓	✓	✓	✓	-	-	-	-	-
8	✓	✓	✓	✓	✓	✓	✓	-	-	-	-
9	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
10	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-
11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-
12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	-	-	-	-	-	-	-	-	-	-	✓
14	-	-	-	-	-	-	-	-	-	✓	✓
15	-	-	-	-	-	-	-	-	✓	✓	✓
16	-	-	-	-	-	-	-	✓	✓	✓	✓
17	-	-	-	-	-	-	✓	✓	✓	✓	✓
18	-	-	-	-	-	✓	✓	✓	✓	✓	✓
19	-	-	-	-	✓	✓	✓	✓	✓	✓	✓
20	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓
21	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
22	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23	✓	✓	✓	✓	✓	-	-	-	✓	✓	✓
24	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-
25	✓	✓	✓	✓	✓	-	-	-	-	-	-

- NOTES:** (1) Plots were inoculated by the application of rape straw from the 1992 harvest.
- (2) All plots were inoculated in autumn on 16 October 1992. In addition, plots of treatments 23 and 25 were inoculated in spring on 9 March 1993 and plots of treatment 24 were inoculated in summer on 28 June.

93/R/RAW/5

Experimental diary:

- 10-Aug-92 : B : Shallow cultivated with Bomford Dynadrive.
17-Aug-92 : B : Dolomite at 5.0 t.
21-Aug-92 : B : Ploughed, furrow pressed.
28-Aug-92 : B : Rotary harrowed, Envol, dressed Lindex-Plus FS, drilled
at 120 seeds per square metre.
29-Aug-92 : B : Rolled.
07-Oct-92 : B : Draza at 5.5 kg.
14-Oct-92 : T : FUNGFREQ 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 23, 24, 25:
Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
19-Oct-92 : B : Pilot at 75 ml with Cropspray 11E at 2.0 l in 200 l.
04-Nov-92 : T : FUNGFREQ 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 22, 23, 24,
25: Compass at 1.5 l and Sportak 45 at 0.55 l in
200 l.
07-Dec-92 : T : FUNGFREQ 4, 5, 6, 7, 8, 9, 10, 11, 12, 21, 22, 23, 24,
25: Compass at 1.5 l and Sportak 45 at 0.55 l in
200 l.
08-Jan-93 : T : FUNGFREQ 5, 6, 7, 8, 9, 10, 11, 12, 20, 21, 22, 23, 24,
25: Compass at 1.5 l and Sportak 45 at 0.55 l in
200 l.
19-Jan-93 : B : Matrikerb at 1.6 kg in 400 l.
29-Jan-93 : T : FUNGFREQ 6, 7, 8, 9, 10, 11, 12, 19, 20, 21, 22, 23, 24,
25: Compass at 1.5 l and Sportak 45 at 0.55 l in
200 l.
17-Feb-93 : B : 34.5% N at 170 kg.
23-Feb-93 : T : FUNGFREQ 7, 8, 9, 10, 11, 12, 18, 19, 20, 21, 22, 24:
Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
23-Mar-93 : B : 34.5% N at 370 kg.
24-Mar-93 : T : FUNGFREQ 8, 9, 10, 11, 12, 17, 18, 19, 20, 21, 22, 24:
Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
19-Apr-93 : T : FUNGFREQ 9, 10, 11, 12, 16, 17, 18, 19, 20, 21, 22, 24:
Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
18-May-93 : T : FUNGFREQ 10, 11, 12, 15, 16, 17, 18, 19, 20, 21, 22, 23:
Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
22-Jun-93 : T : FUNGFREQ 11, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23:
Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
12-Jul-93 : T : FUNGFREQ 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23:
Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
17-Jul-93 : B : Reglone at 3.0 l with Vassgro Spreader at 0.40 l in
400 l.
28-Jul-93 : B : Combine harvested.

Previous crops: W. wheat 1991 and 1992.

NOTE: Plants were sampled monthly, prior to spray treatment application, to monitor disease progress. Numbers of air-borne spores were counted and growth stage measurements made throughout the season. Seed and plant dry weights, seed oil analysis and stubble counts were made at harvest.

93/R/RAW/5

GRAIN (AT 90% DM) TONNES/HECTARE

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

FUNGFREQ

1	3.35
2	4.17
3	4.33
4	4.38
5	4.69
6	4.56
7	4.74
8	4.70
9	4.56
10	4.55
11	4.62
12	4.76
13	3.74
14	3.97
15	3.58
16	4.07
17	4.08
18	4.41
19	4.46
20	4.42
21	4.75
22	4.77
23	5.10
24	4.71
25	4.71

Mean 4.41

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

FUNGFREQ

0.207

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	48	0.254	5.8
GRAIN MEAN DM%	83.8		
PLOT AREA HARVESTED	0.00575		