

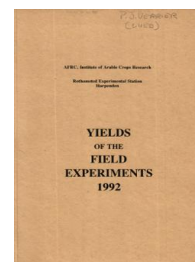
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92/R/RAW/5 Disease Forecasting and Yield Loss - W. Oilseed Rape

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92/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 - Pastures.

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

Design: 2 randomised blocks of 27 plots plus 2 randomised blocks of 13 plots.

Whole plot dimensions: 3.0 x 25.0.

Treatments:

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

TREATMENT NUMBER	07 OCT	04 NOV	02 DEC	06 JAN	10 FEB	09 MAR	13 APR	11 MAY	08 JUN	06 JUL
1	-	-	-	-	-	-	-	-	-	-
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	-
4	✓	✓	✓	✓	✓	✓	✓	✓	-	-
5	✓	✓	✓	✓	✓	✓	✓	-	-	-
6	✓	✓	✓	✓	✓	✓	-	-	-	-
7	✓	✓	✓	✓	✓	-	-	-	-	-
8	✓	✓	✓	✓	-	-	-	-	-	-
9	✓	✓	✓	-	-	-	-	-	-	-
10	✓	✓	-	-	-	-	-	-	-	-
11	✓	-	-	-	-	-	-	-	-	-
12	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	-	-	✓	✓	✓	✓	✓	✓	✓	✓
14	-	-	-	✓	✓	✓	✓	✓	✓	✓
15	-	-	-	-	✓	✓	✓	✓	✓	✓
16	-	-	-	-	-	✓	✓	✓	✓	✓
17	-	-	-	-	-	-	✓	✓	✓	✓
18	-	-	-	-	-	-	-	✓	✓	✓
19	-	-	-	-	-	-	-	-	✓	✓
20	-	-	-	-	-	-	-	-	-	✓
21	✓	✓	✓	✓	-	-	-	✓	✓	✓
22	Autumn inoculation			No spray						
23	"	"		and treatment						
24	"	"		"	"					18
25	Spring inoculation			"	"					21
26	"	"		"	"					8
27	Summer			"	"					5

92/R/RAW/5

Experimental diary:

07-Aug-91 : B : Straw chopped.
21-Aug-91 : B : Gramoxone 100 at 2.0 l with Agral at 0.10 l in 200 l.
27-Aug-91 : B : Heavy spring-tine cultivated twice, disced.
28-Aug-91 : B : Rotary harrowed, Envol, dressed Lindex-Plus FS, drilled at 5.6 kg.
29-Aug-91 : B : Rolled.
30-Aug-91 : B : Butisan S at 1.5 l in 200 l.
14-Sep-91 : B : Irrigation: 12 mm applied.
12-Oct-91 : T : FUNGFREQ 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 21, 25, 26, 27: Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
06-Nov-91 : T : FUNGFREQ 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 21, 25, 26, 27: Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
02-Dec-91 : T : FUNGFREQ 2, 3, 4, 5, 6, 7, 8, 9, 12, 13, 21, 25, 26, 27: Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
14-Jan-92 : T : FUNGFREQ 2, 3, 4, 5, 6, 7, 8, 12, 13, 14, 21, 25, 26, 27: Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
11-Feb-92 : T : FUNGFREQ 2, 3, 4, 5, 6, 7, 12, 13, 14, 15, 24, 27: Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
19-Feb-92 : B : 34.5% N at 220 kg.
21-Feb-92 : B : PK as (0:18:36) at 940 kg.
16-Mar-92 : T : FUNGFREQ 2, 3, 4, 5, 6, 12, 13, 14, 15, 16, 24, 27: Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
20-Mar-92 : B : 34.5% N at 220 kg.
21-Apr-92 : T : FUNGFREQ 2, 3, 4, 5, 12, 13, 14, 15, 16, 24, 27: Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
14-May-92 : T : FUNGFREQ 2, 3, 4, 12, 13, 14, 15, 16, 17, 18, 21, 23, 24, 25: Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
09-Jun-92 : T : FUNGFREQ 2, 3, 12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 24, 25: Compass at 1.5 l and Sportak 45 at 0.55 l in 200 l.
09-Jul-92 : B : Reglone at 3.0 l with Farmon Blue at 0.26 l in 260 l.
16-Jul-92 : B : Combine harvested.

Previous crops: W. barley 1990, w. oilseed rape 1991.

- NOTES:** (1) Only the yields from the main trial of 54 plots are reported.
(2) Inoculation was achieved by the application of rape straw from the 1991 harvest.
(3) Treatments planned for 6 July were not applied as crop was about to be disiccated. Summer inoculation of Treatment number 27 was not applied.
(4) Field assessments were made or crop samples taken to estimate disease before each spray treatment was applied. Crop growth and development were estimated at intervals during the growing season.

92/R/RAW/5

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGFREQ

1	2.68
2	3.38
3	3.66
4	3.37
5	3.29
6	3.21
7	3.15
8	3.13
9	3.10
10	3.16
11	3.06
12	3.52
13	3.32
14	3.52
15	3.08
16	3.42
17	3.58
18	3.06
19	3.00
20	3.17
21	3.42
22	2.85
23	3.13
24	3.72
25	3.42
26	3.52
27	3.28

Mean 3.27

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

FUNGFREQ

0.298

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	26	0.298	9.1
GRAIN MEAN DM%	79.5		
PLOT AREA HARVESTED	0.00575		