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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. Muuray.

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							18
24	"	"		"	"						15
25	Spring inoculation			"	"						21
26	"	"		"	"						8
27	Summer		"	"	"						5

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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		