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95/R/RAW/5 Fungicide Type and Timing - W. Oilseed Rape

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95/R/RAW/5

WINTER OILSEED RAPE

FUNGICIDE TYPE AND TIMING

Object: To compare prophylactic and forecast fungicidal spray programmes for the control of diseases in oilseed rape - Highfield V.

Sponsors: B.D.L. Fitt, C.X. Hong, S. Mitchell.

Design: 3 randomised blocks of 16 plots.

Whole plot dimensions: 3.0 x 20.0.

Treatments:

FUNGCDE		Fungicide spraying strategy, fungicide type, rate and timing:
NIL		None (triplicated)
S1	Standard	Tebuconazole, full rate, autumn
S2	Standard	Tebuconazole, full rate, spring
S12	Standard	Tebuconazole, half rate, autumn and spring
S3	Standard	Iprodione, full rate, summer
S13	Standard	Tebuconazole, full rate, autumn and iprodione, full rate, summer
S23	Standard	Tebuconazole, full rate, spring and iprodione, full rate, summer
S123	Standard	Tebuconazole, half rate, autumn and spring and iprodione full rate, summer
F1	Forecast	Tebuconazole, full rate, autumn (duplicated)
F2	Forecast	Tebuconazole, full rate, spring (duplicated)
F12	Forecast	Tebuconazole, half rate, autumn and spring (duplicated)

Experimental diary:

18-Jul-94 : B : PK as (0:20:32) at 1406 kg.
29-Jul-94 : B : Deep tine cultivated with vibrating tines 60 cm apart and 45 cm deep. Rolled.
03-Aug-94 : B : Ploughed and furrow pressed.
04-Aug-94 : B : Rolled.
23-Aug-94 : B : Spring-tine cultivated. Rotary harrowed, Envol, dressed Lindex-Plus FS, drilled at 120 seeds per m². Rolled.
23-Nov-94 : T : FUNGCDE S1, S13: Folicur at 1.0 l in 220 l.
 : T : FUNGCDE S12, S123: Folicur at 0.5 l in 220 l.
19-Dec-94 : T : FUNGCDE F1: Folicur at 1.0 l in 220 l.
 : T : FUNGCDE F12: Folicur at 0.5 l in 220 l.
23-Feb-95 : B : 34.5% N at 174 kg.
24-Feb-95 : T : FUNGCDE S1, S12, S13, S123: Folicur at 0.5 l in 220 l.
15-Mar-95 : B : 34.5% N at 348 kg.
30-Mar-95 : T : FUNGCDE S2, S23: Folicur at 1.0 l in 220 l.
 : T : FUNGCDE S12, S123: Folicur at 0.5 l in 220 l.
19-Apr-95 : B : Fastac at 0.2 l in 200 l.
21-Apr-95 : T : FUNGCDE F2: Folicur at 1.0 l in 220 l.
 : T : FUNGCDE F12: Folicur at 0.5 l in 220 l.

95/R/RAW/5

Experimental diary:

01-Jun-95 : T : FUNGCDE S3, S13, S23, S123: Rovral Flo at 3.0 l in
200 l.
11-Jul-95 : B : Reglone at 3.0 l with Vassgro Spreader at 400 ml in
400 l.
17-Jul-95 : B : Combine harvested.

Previous crops: S. beans 1993, set-aside 1994.

NOTE: Incidence of disease on leaves, stems and pods were assessed regularly. Meteorological data was recorded throughout the season.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCDE

NIL	4.50
S1	5.12
S2	4.84
S12	5.16
S3	4.53
S13	5.15
S23	4.95
S123	5.14
F1	4.97
F2	4.85
F12	4.89
Mean	4.86

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

FUNGCDE

0.148 min.rep
0.121 max-min

FUNGCDE

max-min NIL v any of remainder
min.rep Any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	35	0.181	3.7
GRAIN MEAN DM%	83.0		
SUB-PLOT AREA HARVESTED	0.00391		