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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 | | |