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Yields of the Field Experiments 1994



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

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94/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 - Summerdells I.

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 20.0.

Treatments:

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

TREATMENT	23	17	19	17	30	19	09	13	04
NUMBER	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	1	-	-	-	-	-	-	-	-
5	1	1	-	-	-	-	-	-	_
6	1	1	1	-	-	-	-	-	-
7	1	1	1	1	-	-	-	-	-
8	1	1	1	1	1	-	-	-	-
9	1	1	1	1	1	1	-	-	-
10	/	1	1	/	1	1	/	-	-
11	1	1	1	1	1	1	1	1	-
12	1	1	1	1	1	1	/	1	1
13	-	-	-	-	-	-	-	-	1
14	-	-	-	-	-	-	-	1	1
15	_	-	-	-	-	-	1	1	1
16	-	-	-	-	-	1	1	1	1
17	-	-	-	-	1	1	1	1	1
18	-	-	-	1	1	1	1	1	1
19	-	-	1	1	1	1	✓	1	1
20	-	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1
23	/	1	1	-	-	-	1	1	1
24	1	1	1	1	1	1	-	-	-
25	1	1	1	-	-	-	-	-	-

- NOTE: (1) Due to adverse weather, some planned treatments were omitted or re-scheduled. Treatments 1, 2 and 3 were identical and treatments 12, 21 and 22 also were identical. The means of the three are presented under treatments 1 and 12.
 - (2) All plots were inoculated on 1 December, 1993 by applying rape straw from the 1993 harvest. Treatment numbers 23 and 25 were inoculated again on 16 March, 1994 and treatment number 24 on 28 June.

94/R/RAW/5

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Experimental Diary:
   01-Jul-93 : B : Disced, rolled.
   13-Aug-93 : B : Sting CT at 2.0 1 in 200 1.
   19-Aug-93 : B : Ploughed and furrow pressed.
   20-Aug-93 : B : Rolled.
   25-Aug-93 : B : Disced.
   27-Aug-93 : B : Rolled.
   31-Aug-93 : B : Rotary harrowed.
   01-Sep-93 : B : Rolled.
   18-Sep-93 : B : Rotary harrowed, Envol, dressed Lindex-Plus FS, drilled
                      at 120 seeds per m2.
   30-Sep-93 : B : Draza at 5.5 kg.
   23-Nov-93 : T : FUNGFREQ Treatment numbers as schedule: Sportak 45 at
                      0.55 1 with Compass at 1.5 1 in 200 1.
   17-Dec-93 : T : FUNGFREQ Treatment numbers as schedule: Sportak 45 at
                      0.55 1 with Compass at 1.5 1 in 200 1.
   18-Jan-94 : B : Draza at 5.5 kg.
   19-Jan-94 : T : FUNGFREQ Treatment numbers as schedule: Sportak 45 at
                      0.55 1 with Compass at 1.5 1 in 200 1.
   17-Feb-94 : T : FUNGFREQ Treatment numbers as schedule: Sportak 45 at
                      0.55 1 with Compass at 1.5 1 in 200 1.
   28-Feb-94 : B : Benazalox at 1.0 kg with Carbetamex at 3.0 kg in 200 1.
   07-Mar-94 : B : 34.5% N at 162 kg.
   30-Mar-94 : T : FUNGFREQ Treatment numbers as schedule: Sportak 45 at
                      0.55 1 with Compass at 1.5 1 in 200 1.
   11-Apr-94 : B : 34.5% N at 346 kg.
   19-Apr-94 : T : FUNGFREQ Treatment numbers as schedule: Sportak 45 at
                      0.55 1 with Compass at 1.5 1 in 200 1.
   09-May-94 : T : FUNGFREQ Treatment numbers as schedule: Sportak 45 at
                      0.55 1 with Compass at 1.5 1 in 200 1.
   13-Jun-94 : T : FUNGFREQ Treatment numbers as schedule: Sportak 45 at
                      0.55 1 with Compass at 1.5 1 in 200 1.
   04-Jul-94 : T : FUNGFREQ Treatment numbers as schedule: Sportak 45 at
                      0.55 1 with Compass at 1.5 1 in 200 1.
   01-Aug-94 : B : Combine harvested.
```

Previous crops: Potatoes 1992, set-aside 1993.

- NOTE: (1) 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.
 - (2) The analysis presented assumes a linear trend, to represent the weed population.

94/R/RAW/5

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGFREQ 3.09 1 3.03 4 5 3.45 6 3.72 7 3.73 8 3.58 9 3.56 10 3.47 11 3.73 12 3.44 13 3.05 14 3.06 15 3.24 16 3.32 17 3.34 18 3.52 3.59 19 20 3.54 23 3.61 3.11 24

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

3.46

3.39

FUNGFREQ

25

Mean

0.220 min.rep 0.179 max-min 0.127 max.rep

FUNGFREQ

max-min 1 or 12 v any of the remainder
max.rep 1 or 12
min.rep Any of the remainder

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

Stratum d.f. s.e. cv%
BLOCK.WP 52 0.365 10.8

GRAIN MEAN DM% 80.2

PLOT AREA HARVESTED 0.00460