

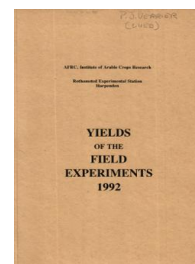
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92/R/CS/392 Alternaria and Fungicides - Linseed

Rothamsted Research

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92/R/CS/392

ALTERNARIA & FUNGICIDES

Object: To study the epidemiology and changes in the population of *Alternaria linicola* under different fungicide treatments - Long Hoos IV 4.

Sponsors: I. Vloutoglou, B.D.L. Fitt.

The first year, linseed.

Design: 5 randomised blocks of 4 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

FUNGICIDE	Fungicides:
NONE	None
IPRODION	Iprodione
CHLORTHL	Chlorothalonil
PROCHLOR	Prochloraz

Experimental diary:

14-Apr-92 : B : Heavy spring-tine cultivated.
21-Apr-92 : B : Rotary harrowed.
21-Apr-92 : B : Rotary harrowed. Antares, undressed, drilled at 50 kg.
23-Apr-92 : B : Rolled.
13-May-92 : B : 34.5% N at 220 kg.
02-Jun-92 : B : Basagran at 2.0 l and Vindex at 1.0 l in 200 l.
18-Jun-92 : B : Irrigation: 8 mm applied.
24-Jun-92 : T : **FUNGICIDE** IPRODION: Rovral Flo at 1.0 l in 220 l.
 : T : **FUNGICIDE** CHLORTHL: Chiltern Chlorothalonil 500 at 0.50 l
 in 220 l.
 : T : **FUNGICIDE** PROCHLOR: Sportak 45 at 0.35 l in 220 l.
26-Jun-92 : B : Irrigation: 12mm applied.
29-Jun-92 : B : Irrigation: 12mm applied.
08-Jul-92 : T : **FUNGICIDE**: All applications as 24-Jun-92.
22-Jul-92 : T : **FUNGICIDE**: All applications as 24-Jun-92.
28-Jul-92 : B : Irrigation: 12mm applied.
06-Aug-92 : T : **FUNGICIDE**: All applications as 24-Jun-92.
19-Aug-92 : T : **FUNGICIDE**: All applications as 24-Jun-92.
10-Sep-92 : T : **FUNGICIDE**: All applications as 24-Jun-92.
16-Sep-92 : B : Roundup at 3.0 l in 200 l.
17-Sep-92 : B : Combine harvested.

Previous crops: W. wheat 1990, linseed 1991.

NOTE: Plant samples were taken at fortnightly intervals from mid-June until mid-September for assessment of infection by *Alternaria linicola*.

92/R/CS/392

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGICIDE	
NONE	0.96
IPRODION	0.93
CHLORLOR	1.06
PROCHLOR	1.18
Mean	1.03

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

FUNGICIDE
0.086

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.136	13.2

GRAIN MEAN DM% 86.0

PLOT AREA HARVESTED 0.00230