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# Yields of the Field Experiments 1993



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# 93/R/LN/3 Botrytis and Seed Infection - Linseed

# **Rothamsted Research**

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# 93/R/LN/3

# LINSEED

# BOTRYTIS AND SEED INFECTION

Object: To determine the effect of Botrytis cinerea on the growth and yield of linseed, and to determine the route of infection to the seed -Sawyers II.

Sponsors: J. Harold, B.D.L. Fitt.

Design: 3 blocks of 6 plots.

Whole plot dimensions: 3.0 x 20.0.

#### Treatments:

Fungicidal sprays applied consecutively during flowering: FUNGCIDE

NONE None

Carbendazim, prochloraz and carbendazim CA+PR+CA Iprodione, prochloraz and iprodione IP+PR+IP

# Experimental diary:

22-Jan-93 : B : Ploughed.

19-Apr-93 : B : Heavy spring-tine cultivated.

20-Apr-93 : B : Rotary harrowed, Antares, dressed Prelude 20 LF, drilled at 700 seeds per square metre.

28-Jun-93 : T : FUNGCIDE CA+PR+CA: Tripart Defensor FL at 1.0 1 in

200 1. : T : FUNGCIDE IP+PR+IP: Rovral Flo at 2.0 1 in 200 1.

22-Jul-93 : T : FUNGCIDE CA+PR+CA, IP+PR+IP: Sportak 45 at 0.90 1 in

200 1.

04-Aug-93 : T : FUNGCIDE CA+PR+CA: Tripart Defensor FL at 1.0 1 in 200 1.

: T : FUNGCIDE IP+PR+IP: Rovral Flo at 2.0 1 in 200 1.

23-Oct-93 : B : Combine harvested.

Previous crops: W. wheat 1991, s. wheat 1992.

NOTE: Emergence counts were made. Samples were taken fortnightly from mid-June until September for assessment of growth stages and disease symptoms. Incidence of pathogenic fungi on various plant components was assessed by isolation on agar.

# 93/R/LN/3

# GRAIN (AT 90% DM) TONNES/HECTARE

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

FUNGCIDE

NONE 1.82 CA+PR+CA 2.25 IR+PR+IP 2.10

Mean 2.06

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

# FUNGCIDE

0.067

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

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP
 13
 0.116
 5.6

GRAIN MEAN DM% 87.5

PLOT AREA HARVESTED 0.00460