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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:

FUNGICIDE	Fungicidal sprays applied consecutively during flowering:
NONE	None
CA+PR+CA	Carbendazim, prochloraz and carbendazim
IP+PR+IP	Iprodione, prochloraz and iprodione

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 : **FUNGICIDE** CA+PR+CA: Tripart Defensor FL at 1.0 l in 200 l.
 : T : **FUNGICIDE** IP+PR+IP: Rovral Flo at 2.0 l in 200 l.
22-Jul-93 : T : **FUNGICIDE** CA+PR+CA, IP+PR+IP: Sportak 45 at 0.90 l in 200 l.
04-Aug-93 : T : **FUNGICIDE** CA+PR+CA: Tripart Defensor FL at 1.0 l in 200 l.
 : T : **FUNGICIDE** IP+PR+IP: Rovral Flo at 2.0 l in 200 l.
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