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95/R/LN/3 Leaf Browning Symptoms - Linseed

Rothamsted Research

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95/R/LN/3

LINSEED

LEAF BROWNING SYMPTOMS

Object: To distinguish pathogens responsible for leaf browning in linseed, and to measure their response to fungicide - New Zealand.

Sponsors: B.D.L. Fitt, S. Mitchell.

Design: 5 randomised blocks of 3 plots.

Plot dimensions: 3.0 x 15.0.

Treatments:

FUNGCIDE	Fungicide:
-	None
A	Iprodione
B	Benomyl

Experimental diary:

09-Dec-94 : B : Farmyard manure at 25 t.
21-Dec-94 : B : Ploughed.
14-Mar-95 : B : Gramoxone 100 at 4.0 l in 200 l.
20-Apr-95 : B : Spring-tine cultivated, rotary harrowed, Antares, dressed Prelude 20 LF, drilled at 700 seeds per m².
05-May-95 : B : Decis at 300 ml in 300 l.
10-May-95 : B : Irrigated 12.5 mm.
11-May-95 : B : Irrigated 12.5 mm.
24-May-95 : B : 34.5% N at 232 kg.
15-Jun-95 : B : Lorate 20 DF at 30 g in 300 l.
05-Jul-95 : T : FUNGCIDE A: Rovral Flo at 2.0 l in 220 l.
 : T : FUNGCIDE B: Benlate Fungicide at 1.1 kg in 220 l.
24-Jul-95 : T : FUNGCIDE A: Rovral Flo at 2.0 l in 220 l.
 : T : FUNGCIDE B: Benlate Fungicide at 1.1 kg in 220 l.
15-Aug-95 : B : Standon Diquat at 3.0 l with Vassgro Spreader at 400 ml in 400 l.
04-Sep-95 : B : Combine harvested.

Previous crops: S. wheat 1993, linseed 1994.

NOTE: Regular samples were taken to assess the incidence of disease. Concentrations of airborne spores were recorded with a Burkard spore sampler.

95/R/LN/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCIDE

-	1.63
A	1.68
B	1.78
Mean	1.69

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

FUNGCIDE

0.052

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.082	4.8
GRAIN MEAN DM%	90.5		
PLOT AREA HARVESTED	0.00294		