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

Rothamsted Research

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96/R/LN/3

LINSEED

LEAF BROWNING SYMPTOMS

Object: To identify pathogens responsible for leaf browning in linseed and to measure their response to fungicide - Hoosfield, Old Four-course.

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

Design: 3 randomised blocks of 5 plots.

Plot dimensions: 3.0 x 15.0.

Treatments:

FUNGICIDE	Fungicide:
-	None
A	Iprodione (duplicated)
B	Benomyl (duplicated)

Experimental diary:

02-Feb-96 : B : Gramoxone 100 at 4.0 l in 200 l.
16-Apr-96 : B : Heavy spring-tine cultivated twice. Rotary harrowed, Antares, dressed Prelude 20LF, drilled at 700 seeds per m².
08-May-96 : B : 34.5% N at 220 kg.
13-May-96 : B : Cyperkill 10 at 250 ml in 200 l.
04-Jun-96 : B : Ally at 30 g in 200 l.
05-Jul-96 : T : FUNGCIDE A: Rovral Flo at 2.0 l in 220 l.
 : T : FUNGCIDE B: Benlate Fungicide at 1.1 kg in 220 l.
22-Jul-96 : T : FUNGCIDE A: Rovral Flo at 2.0 l in 220 l.
 : T : FUNGCIDE B: Benlate Fungicide at 1.1 kg in 220 l.
 : T : FUNGCIDE A, B: Clayton Turret at 2.0 l in 220 l.
02-Sep-96 : B : Roundup at 4.0 l in 260 l.
17-Sep-96 : B : Combine harvested.

Previous crops: W. wheat 1994, linseed 1995.

NOTE: Samples of plants were taken regularly to assess the incidence and severity of *Verticillium* and other diseases.

96/R/LN/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGIDE	
-	0.91
A	0.93
B	0.88
Mean	0.91

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

FUNGIDE	
0.055	max-min
0.045	max.rep

FUNGIDE
max-min - v any of the remainder
max.rep Any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	10	0.077	8.5
GRAIN MEAN DM%	92.0		
PLOT AREA HARVESTED	0.00276		