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97/R/LN/2 Leaf Browning Symptoms - Linseed

Rothamsted Research

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97/R/LN/2

LINSEED

LEAF BROWNING SYMPTOMS

Object: To distinguish pathogens associated with leaf browning symptoms on linseed and to monitor seasonal changes in such pathogen populations under different fungicide regimes - Appletree.

Sponsors: B.D.L. Fitt.

Design: 15 plots fully randomised.

Plot dimensions: 3.0 x 15.0.

Treatments:

FUNGCIDE	Fungicide:
-	None (three plots)
A	Iprodione (six plots)
B	Benomyl (six plots)

Experimental diary:

15-Oct-96 : B : Chalk at 5.0 t.
05-Nov-96 : B : Farmyard manure at 25.0 t.
12-Nov-96 : B : Ploughed.
14-Apr-97 : B : Rolled.
17-Apr-97 : B : Scythe LC at 3.0 l with Vassgro Non-ionic at 200 ml in 200 l.
18-Apr-97 : B : Spring-tine cultivated. Rotary harrowed, Antares, dressed Prelude 20 LF, drilled at 700 seeds per m². Rolled.
15-May-97 : B : Cyperkill 10 at 300 ml with Vassgro Non-ionic at 50 ml in 300 l.
30-May-97 : B : Nitram 34.5% N at 218 kg.
04-Jun-97 : B : Lorate 20 DF at 30 g in 200 l.
24-Jun-97 : 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-97 : 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-97 : B : Hand rogued wild oats.
02-Sep-97 : B : Harvest at 3.0 l in 400 l.
11-Sep-97 : B : Combine harvested.

Previous crops: W. barley 1995, lupins 1996.

NOTE: Plant samples were taken fortnightly from late July to early September for disease assessment.

97/R/LN/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGICIDE	
-	1.60
B	2.64
A	1.84
Mean	2.11

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

FUNGICIDE	
0.141	max-min
0.115	max.rep

FUNGICIDE	
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%
WP	12	0.199	9.4

GRAIN MEAN DM% 89.3

PLOT AREA HARVESTED 0.00302