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00/R/LNW/1 Winter Linseed Diseases

Rothamsted Research

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00/R/LNW/1

LINSEED

WINTER LINSEED DISEASES

Object: To assess the effects of diseases on the growth and yield of winter linseed by using fungicide treatments to control them - Drapers.

Sponsors: B.D.L. Fitt, S.A.M Perryman.

Design: 3 randomised blocks of 10 plots.

Plot dimensions: 3.0 x 15.0.

Treatments:

DIS CONT	Fungicides and timing:
-	None (duplicated)
B1	Benomyl mid-flowering
B2	Benomyl mid-flowering and at capsule development
A1	Iprodione mid-flowering
A2	Iprodione mid-flowering and at capsule development
C1	Iprodione and thiophanate-methyl mid-flowering
C2	Iprodione and thiophanate-methyl mid-flowering and at capsule development
APM	Tebuconazole in autumn and benomyl pre-flowering and mid-flowering
PM	Benomyl pre-flowering and mid-flowering

Experimental diary:

30-Sep-99 : B : : tm)PDQ at 3.0 l in 200 l.
 : B : : tm)Enhance Low Foam at 100 ml in 200 l.
05-Oct-99 : B : : Rotary harrowed, drilled Oliver, tr. Prelude 20 LF, at
 950 seeds/m² with the Accord drill.
07-Oct-99 : B : : Rolled.
23-Nov-99 : T : APM : Folicur at 0.5 l in 220 l.
24-Feb-00 : B : : tm)Laser at 1.0 l in 200 l.
 : B : : tm)Cropoil at 2.0 l in 200 l.
09-Mar-00 : B : : 34.5% N at 145 kg.
17-Mar-00 : B : : Eagle at 30 g in 200 l.
22-Mar-00 : T : APM,PM : Benlate Fungicide at 1.1 kg in 220 l.
22-Mar-00 : B : : New 5C Cycocel at 2.5 l in 200 l.
31-Mar-00 : B : : 34.5% N at 116 kg.
 : B : : tm)Basagran SG at 1.1 kg in 200 l.
 : B : : tm)Vindex at 1.0 l in 200 l.
31-May-00 : T : A1,A2 : Rovral Flo at 2.0 l in 220 l.
 : T : B1,B2,APM,PM : Benlate Fungicide at 1.1 kg in 220 l.
 : T : C1,C2 : Compass at 3.0 l in 220 l.
26-Jun-00 : T : A2 : Rovral Flo at 2.0 l in 220 l.
 : T : B2 : Benlate Fungicide at 1.1 kg in 220 l.
 : T : C2 : Compass at 3.0 l in 220 l.
26-Jul-00 : B : : tm)Enhance Low Foam at 400 ml in 400 l.
 : B : : tm)Reglone at 3.0 l in 400 l.
01-Aug-00 : B : : Combine harvested.

00/R/LNW/1

Previous crops: Linseed 1998, w. barley 1999.

- NOTES: (1) Crop samples were taken on ten occasions from November to July for disease assessments.
(2) Yields presented have been adjusted for the proportion of plants chewed by rabbits as assessed on 26-Apr-00.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

DIS CONT

-	1.39
B1	1.49
B2	1.43
A1	1.26
A2	1.22
C1	1.72
C2	1.65
APM	1.60
PM	1.59
Mean	1.48

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

DIS CONT

0.226 min.rep
0.196 max-min

DIS CONT

Max-min - v any of the remainder
Min.rep Any of the remainder

***** Stratum standard errors and coefficients of variation
(adjusted for covariate) *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	18	0.273	18.5
GRAIN MEAN DM%	93.1		
PLOT AREA HARVESTED	0.00288		