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00/R/LNS/1 Fungicides and Spring Linseed

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00/R/LNS/1

LINSEED

FUNGICIDES AND SPRING LINSEED

Object: To test fungicidal spray programmes on spring linseed - Drapers.

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

Design: 2 blocks of 2 plots randomly split into 3 x 4 + 2.

Plot dimensions: 3.0 x 12.0.

Treatments: All combinations of:-

Whole plots: All combinations of:-

1. VARIETY

A	Antares
J	Jupiter

Sub-plots

2. FUNGICIDE Target organism and fungicides used:

AL	<i>Alternaria</i> (Rovral Flo at 2.0 l in 220 l)
BO	<i>Botrytis</i> (Benlate Fungicide at 1.1 kg in 220 l)
A+B	<i>Alternaria</i> and <i>Botrytis</i> (Compass at 3.0 l in 220 l)

3. TIMING Fungicide timing:

P+M	Pre-flowering and mid-flowering
MF	Mid-flowering
CD	Capsule development
M+C	Mid-flowering and capsule development

Plus two extra treatments:

EXTRA

A	Antares with no fungicide (duplicated)
J	Jupiter with no fungicide (duplicated)

Experimental diary:

16-Mar-00	: B :	: Rolled. Spring-tine cultivated.
02-May-00	: T : A	: Combination drilled, Antares, tr. Prelude 20 LF at 700 seeds/m ² , with the Accord drill.
	: T : J	: Combination drilled, Jupiter, tr. Prelude 20 LF at 700 seeds/m ² , with the Accord drill.
05-May-00	: B :	: Rolled.
10-May-00	: B :	: 34.5% N at 174 kg. Hallmark with Zeon Technology at 75 ml in 200 l.
12-May-00	: B :	: Hallmark with Zeon Technology at 75 ml in 200 l.
16-May-00	: B :	: Hallmark with Zeon Technology at 75 ml in 200 l.

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Experimental diary:

27-Jun-00 : T : P+M : Fungicides applied.
 06-Jul-00 : T : M+C,MF,P+M : Fungicides applied.
 21-Jul-00 : T : CD,M+C : Fungicides applied.
 18-Aug-00 : B : : tm)Enhance Low Foam at 400 ml in 400 l.
 18-Aug-00 : B : : tm)Reglone at 3.0 l in 400 l.
 25-Aug-00 : B : : Combine harvested.

Previous crops: Linseed 1998, w. barley 1999.

NOTE: Crop samples were taken on four occasions from June to August for disease assessments.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGICIDE TIMING	AL	BO	A+B	Mean
P+M	0.92	1.36	1.12	1.13
MF	1.04	1.06	1.12	1.07
CD	1.18	1.09	1.03	1.10
F+C	0.89	1.16	0.91	0.98
Mean	1.01	1.17	1.04	1.07

VARIETY TIMING	A	J	Mean
P+M	1.11	1.15	1.13
MF	1.16	0.98	1.07
CD	1.04	1.16	1.10
F+C	0.96	1.00	0.98
Mean	1.07	1.07	1.07

VARIETY FUNGICIDE	A	J	Mean
AL	1.03	0.98	1.01
BO	1.18	1.16	1.17
A+B	1.01	1.08	1.04
Mean	1.07	1.07	1.07

FUNGICIDE VARIETY TIMING	AL A	BO J	A+B A	J
P+M	0.96	0.87	1.24	1.48
MF	1.00	1.08	1.29	0.83
CD	1.32	1.05	1.03	1.15
F+C	0.83	0.94	1.15	1.17
EXTRA	A	J	Mean	
	0.83	1.05	0.94	

Grand mean 1.05

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GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGICIDE	TIMING	VARIETY*
		FUNGICIDE
0.090	0.104	0.127
VARIETY*	FUNGICIDE	VARIETY*
TIMING	TIMING	FUNGICIDE
		TIMING
0.147	0.180	0.255

* Within the same level of **VARIETY** only

S.e.d. for comparing **EXTRA** A or J with any item in **VARIETY.FUNGICIDE.TIMING** table is 0.220 within the same level of **VARIETY** only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	28	0.255	24.2
GRAIN MEAN DM%	80.5		
PLOT AREA HARVESTED	0.00240		