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99/R/LNS/1 Fungicides and Spring Linseed - Linseed

Rothamsted Research

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99/R/LNW/2

CLEAN GRAIN TONNES/HECTARE (WEED SEED REMOVED)

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

WEEDSPEC	WEEDDENS	TIMEWEED	WEEDSPEC WEEDDENS
0.082	0.116	0.082	0.164
WEEDSPEC TIMEWEED	WEEDDENS TIMEWEED	WEEDSPEC WEEDDENS TIMEWEED	
0.116	0.164	0.231	

S.e.d. for comparing NO with any item in the WEEDSPEC.WEEDDENS.TIMEWEED table is 0.200

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	35	0.283	12.4

PLOT AREA HARVESTED 0.00230

99/R/LNS/1

LINSEED

FUNGICIDES AND SPRING LINSEED

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

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

3. **TIMING** Fungicide timing:

P+M	Pre-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:

03-Dec-98	: B :	: Ploughed, started.
04-Dec-98	: B :	: Ploughed, completed.
11-Feb-99	: B :	: PK as (0:20:32) at 1000 kg.
29-Mar-99	: B :	: Spring-tined.
29-Mar-99	: T : A	: Combination drilled, Antares, tr. Vitavax RS, at 700 seeds/m ² with the Accord drill.
29-Mar-99	: T : J	: Combination drilled, Jupiter, tr. Hydraguard and Prelude 20 LF, at 700 seeds/m ² with the Accord drill.
28-Apr-99	: B :	: 34.5% N at 174 kg.

99/R/LNS/1

Experimental diary:

14-May-99 : B : : Ally at 30 g in 200 l.
 09-Jun-99 : T : P+M : Fungicides applied.
 25-Jun-99 : T : M+C, MF, P+M : Fungicides applied.
 13-Jul-99 : T : CD, M+C : Fungicides applied.
 29-Jul-99 : B : : tm) Enhance at 400 ml in 400 l.
 : B : : tm) Reglone at 3.0 l in 400 l.
 01-Sep-99 : B : : Combine harvested.

Previous crops: S. barley 1997, w. wheat 1998.

GRAIN TONNES/HECTARE

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

FUNGCIDE	AL	BO	A+B	Mean
TIMING				
P+M	2.17	2.31	2.28	2.26
MF	2.14	2.16	2.32	2.21
CD	1.98	2.13	2.03	2.05
M+C	2.12	2.06	2.30	2.16
Mean	2.10	2.17	2.24	2.17

VARIETY	A	J	Mean
TIMING			
P+M	2.26	2.26	2.26
MF	2.20	2.22	2.21
CD	1.97	2.12	2.05
M+C	2.15	2.17	2.16
Mean	2.14	2.19	2.17

VARIETY	A	J	Mean
FUNGCIDE			
AL	2.06	2.15	2.10
BO	2.18	2.15	2.17
A+B	2.20	2.27	2.24
Mean	2.14	2.19	2.17

FUNGCIDE	AL	BO	A+B
VARIETY			
	A	J	Mean
TIMING			
P+M	2.15	2.19	2.28
MF	2.06	2.22	2.22
CD	1.92	2.04	2.06
M+C	2.08	2.15	2.17
	1.95	2.21	2.40

EXTRA	A	J	Mean
	1.96	2.11	2.03

Grand mean 2.15