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Yields of the Field Experiments 1998

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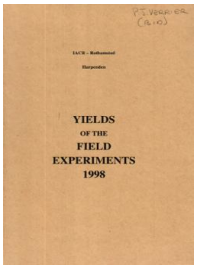

98/R/LP/6 Foliar Diseases and Fungicides - Lupins

Rothamsted Research

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98/R/LP/6

LUPINS

FOLIAR DISEASES AND FUNGICIDES

Object: To test fungicides to control foliar diseases on lupins - Fosters West.

Sponsors: G.L. Bateman, J.V. Etheridge.

Design: 3 randomised blocks of (3 x 7) + 3.

Plot dimensions: 3.0 x 9.0.

Treatments: All combinations of:-

1. **FUNGCIDE** Fungicide:

C	Iprodione and thiophanate-methyl (Compass at 3.0 l in 220 l)
F	Tebuconazole (Folicur at 1.0 L in 220 l)
S	Prochloraz (Sportak 45 HF at 1.0 l in 220 l)

2. **TIMING**

1	07-Apr-98
2	05-May-98
3	01-Jun-98
12	1 + 2 as above
13	1 + 3 as above
23	2 + 3 as above
123	1 + 2 + 3 as above

Plus extra plots

EXTRA

-	None (triplicated)

Experimental diary:

27-Aug-97 : B : Ploughed and furrow pressed.
12-Sep-97 : B : Rolled. DTN 20 undressed, drilled at 60 seeds per m^2. Rolled.
15-Sep-97 : B : Stomp 400 SC at 5.0 l in 200 l.
18-Sep-97 : B : Spannit at 1.1 l in 200 l.
05-Dec-97 : B : Gesatop 500 SC at 2.3 l in 200 l.
16-Mar-98 : B : *Pleiochaeta setosa* inoculum applied. Skirmish at 1.0 l in 200 l.
02-Apr-98 : B : Danadim Dimethoate 40 at 850 ml in 200 l.
07-Apr-98 : **T** : **TIMING** 1, 12, 13, 123: Fungicides applied.
05-May-98 : **T** : **TIMING** 2, 12, 23, 123: Fungicides applied.
09-May-98 : B : Laser at 1.25 l with Chiltern Cropoil at 1.0 l in 200 l.
20-May-98 : B : Aphox at 280 g in 200 l.

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98/R/LP/6

Experimental diary:
01-Jun-98 : **T** : **TIMING** 3, 13, 23, 123: Fungicides applied.
24-Sep-98 : B : Combine harvested.

Previous crops: W. rape 1996, w. wheat 1997.

NOTES: (1) *Pleiochaeta* inoculum was on sterile oat grain applied at 200 kg.
(3) Assessments of brown rot were made in April, May and June. Rust was assessed in June and July. Harvested seed was examined for fungal infection.

GRAIN TONNES/HECTARE

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

TIMING	1	2	3	12	13	23	123	Mean
FUNGCIDE								
C	1.45	1.36	1.60	1.44	1.62	1.53	1.65	1.52
F	1.51	1.39	2.97	1.54	2.84	2.97	2.70	2.27
S	1.38	1.30	1.66	1.44	1.47	1.50	1.64	1.48
Mean	1.45	1.35	2.08	1.47	1.98	2.00	2.00	1.76

EXTRA 1.46

Grand mean 1.72

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

FUNGCIDE	**TIMING**	**FUNGCIDE TIMING**
0.052	0.080	0.138

SED for comparing - with any item in **TIMING.FUNGCIDE** table is 0.112

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	48	0.169	9.8

GRAIN MEAN DM% 77.2

AVERAGE PLOT AREA HARVESTED 0.00219

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