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96/R/LP/12 Foliar Diseases and Fungicides B - Lupins

Rothamsted Research

Rothamsted Research (1997) *96/R/LP/12 Foliar Diseases and Fungicides B - Lupins* ; Yields Of The Field Experiments 1996, pp 157 - 158 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

96/R/LP/12

WINTER LUPINS

FOLIAR DISEASES AND FUNGICIDES B

Object: To determine the importance of foliar diseases and to test the effect of fungicides on winter-sown lupins - Appletree.

Sponsors: G.L. Bateman, J.F. Jenkyn.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 2.88 x 9.0.

Treatments:

FUNGICIDE	Fungicide and timing:
-	None
C1	Iprodione and thiophanate-methyl, 26 Apr 1996
C2	Iprodione and thiophanate-methyl, 30 May
C3	Iprodione and thiophanate-methyl, 19 June
C12	Iprodione and thiophanate-methyl, 26 Apr and 30 May
C13	Iprodione and thiophanate-methyl, 26 Apr and 19 June
C23	Iprodione and thiophanate-methyl, 30 May and 19 June
C123	Iprodione and thiophanate-methyl, 26 Apr, 30 May and 19 June
F23	Tebuconazole, 30 May and 19 June
S23	Prochloraz, 30 May and 19 June

Experimental diary:

- 26-Jul-95 : B : Barley straw removed.
04-Aug-95 : B : Ploughed and furrow pressed.
08-Sep-95 : B : Rotary harrowed, CH304/70 drilled at 40 seeds per m².
14-Sep-95 : B : Stomp 400 SC at 5.0 l in 200 l.
18-Oct-95 : B : Laser at 0.75 l with Atlas Adjuvant Oil at 1.6 l in 200 l.
28-Mar-96 : B : Oat seed inoculum applied at 121 kg.
29-Mar-96 : B : Atlas Simazine at 2.3 l in 200 l.
26-Apr-96 : T : FUNGICIDE C1, C12, C13, C123: Compass at 3.0 l in 220 l.
30-May-96 : T : FUNGICIDE C2, C12, C23, C123: Compass at 3.0 l in 220 l.
: T : FUNGICIDE F23: Folicur at 1.0 l in 220 l.
: T : FUNGICIDE S23: Barclay Eytak at 1.0 l in 220 l.
19-Jun-96 : T : FUNGICIDE C3, C13, C23, C123: Compass at 3.0 l in 220 l.
: T : FUNGICIDE F23: Folicur at 1.0 l in 220 l.
: T : FUNGICIDE S23: Sportak 45 at 1.0 l in 220 l.
18-Jul-96 : B : Pirimicarb 50 DG at 280 g with Vassgro Spreader at 78 ml in 260 l.
03-Sep-96 : B : Reglone at 3.0 l in 390 l.
12-Sep-96 : B : Combine harvested.

Previous crops: W. rape 1994, w. barley 1995.

- NOTES:** (1) Inoculum was *Pleiochaeta setosa* on oat seed.
(2) Disease caused by *P.setosa* was assessed in June.

96/R/LP/12

GRAIN TONNES/HECTARE

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

FUNGCIDE	
-	1.10
C1	0.91
C2	1.02
C3	0.78
C12	0.68
C13	0.76
C23	0.83
C123	1.06
F23	0.75
S23	0.47
Mean	0.84

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

FUNGCIDE
0.189

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	18	0.231	27.6
GRAIN MEAN DM%	83.1		
PLOT AREA HARVESTED	0.00227		