Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1997



Full Table of Content

97/R/LP/4 Fusarium and Sowing Date - Lupins

Rothamsted Research

Rothamsted Research (1998) 97/R/LP/4 Fusarium and Sowing Date - Lupins; Yields Of The Field Experiments 1997, pp 143 - 145 - DOI: https://doi.org/10.23637/ERADOC-1-53

97/R/LP/4

LUPINS

FUSARIUM AND SOWING DATES

Object: To assess the effects of seed treatment fungicides and autumn fungicide spray on Fusarium and plant survival - Sawyers II.

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

Design: 3 different half replicates of 4 x 2 x 2 x 2.

Plot dimensions: 5.4 x 9.0.

Treatments: All combinations of:-

1.	FUNGCIDE	Fungicide:		
	_	None		
	IC	Iprodione and carbendazim seed dressing		
	BG	Fludioximil seed dressing		
	P	Prochloraz foliar spray		
2.	SOW DATE	Sowing date:		
	S1	04-Sep-96		
	S2	01-Oct-96		
3.	INOC	Fusarium avenaceum inoculum:		
	F-	None		
	FI	Inoculated		

4. SUM FUNG Summer fungicide:

- None

SP Tebuconazole spray in May and June

NOTE: Fusarium inoculum was on sterile oat grain applied to the seedbed.

Experimental diary:

29-Jul-96 : B : Subsoiled.

31-Jul-96 : B : Ploughed and furrow pressed.

03-Sep-96 : B : Rotary harrowed.

: T : SOW DATE S1: Inoculum applied.

04-Sep-96 : T : SOW DATE S1: Rotary harrowed twice, CH304/70, dressed as treatment, drilled at 40 seeds per m².

06-Sep-96 : T : SOW DATE S1: Stomp 400 SC at 5.0 1 in 220 1.

01-Oct-96: T: SOW DATE S2: Fusarium inoculum applied, rotary harrowed twice, CH304/70, dressed as treatment, drilled at 40

seeds per m2.

02-Oct-96 : T : SOW DATE S2: Stomp 400 SC at 5.0 1 in 220 1.

08-Nov-96: B: Carbetamex at 3.0 kg with MSS Simazine 50 FL at 2.3 1 in

200 1. Decis at 300 ml in 200 1.

14-Nov-96 : T : FUNGCIDE P: Sportak 45 at 1.0 1 in 220 1.

97/R/LP/4

Experimental diary:

17-Mar-97 : B : Pleiochaeta setosa inoculum applied at 72 kg.

13-May-97 : T : SUM FUNG SP: Folicur at 1.0 1 in 220 1. 09-Jun-97 : T : SUM FUNG SP: Folicur at 1.0 1 in 220 1.

02-Sep-97 : B : Harvest at 3.0 1 in 400 1.

22-Sep-97 : B : Combine harvested.

Previous crops: S. oats 1995, set-aside 1996.

- NOTES: (1) Pleiochaeta inoculum was also on sterile oat grain.
 - (2) Plant populations were assessed monthly October to July. Plant samples were assessed for disease on four occasions in winter. Foliar diseases were assessed in summer.
 - (3) Only 2 way tables are presented except FUNGCIDE INOC.

GRAIN TONNES/HECTARE

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

SOW DATE	S1	S2	Mean
FUNGCIDE			
-	0.22	0.03	0.12
IC	1.30	0.25	0.77
BG	1.21	0.15	0.68
P	1.72	0.09	0.90
Mean	1.11	0.13	0.62
INOC	F-	FI	Mean
FUNGCIDE			
-	0.16	0.08	0.12
IC	0.78	0.76	0.77
BG	0.71	0.64	0.68
P	0.88	0.93	0.90
Mean	0.63	0.60	0.62
INOC	F-	FI	Mean
SOW DATE			
S1	1.11	1.10	1.11
S2	0.15	0.10	0.13
Mean	0.63	0.60	0.62
SUM FUNG	-	SP	Mean
SOW DATE			
S1	0.28	1.94	1.11
S2	0.02	0.23	0.13
Mean	0.15	1.09	0.62

97/R/LP/4

GRAIN TONNES/HECTARE

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

SUM FUNG	-	SP	Mean
INOC			
F-	0.12	1.15	0.63
FI	0.18	1.03	0.60
Mean	0.15	1.09	0.62

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

	FUNGCIDE	SOW DATE	INOC	FOLICUR
	0.156	0.110	0.110	0.135
	FUNGCIDE	FUNGCIDE	SOW DATE INOC 0.156	SOW DATE FOLICUR 0.174
	SOW DATE	INOC		
	0.220	0.220		
Except when	comparing mean	s with the same	level(s) of	£
SOW DATE				0.191

INOC FOLICUR 0.174

Except when comparing means with the same level(s) of INOC 0.191

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

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP
 18
 0.382
 61.7

GRAIN MEAN DM% 85.6

PLOT AREA HARVESTED 0.00216