

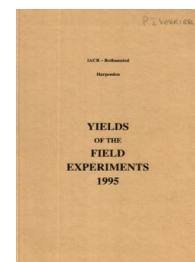
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## Yields of the Field Experiments 1995

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### 95/R/LP/3 Sowing Dates, Pests and Diseases - Lupins

#### Rothamsted Research

Rothamsted Research (1996) *95/R/LP/3 Sowing Dates, Pests and Diseases - Lupins* ; Yields Of The Field Experiments 1995, pp 138 - 141 - DOI: <https://doi.org/10.23637/ERADOC-1-50>

95/R/LP/3

LUPINS

SOWING DATES, PESTS AND DISEASES

**Object:** To study overwinter losses of autumn-sown lupins - Highfield VI.

**Sponsors:** G.L. Bateman, A.W. Ferguson, G.F.J. Milford, I. Shield, S. Nabb.

**Design:** 2 randomised blocks of 2 x 2 x 2 x 3 plots.

**Whole plot dimensions:** 2.88 x 10.0.

**Treatments:** All combinations of:-

1. **SOW DATE**                    Date of sowing:  
E                                Early (late August)  
L                                Late (middle of September)
2. **INS SEED**                    Insecticide seed treatment:  
D-                                None  
DI                                Insecticide (furothiocarb)
3. **FNG SEED**                    Fungicide seed treatment:  
DO                                None  
DF                                Fungicide (iprodione and carbendazim)
4. **AUT FUNG**                    Autumn fungicide:  
F-                                None  
FP                                Prochloraz  
FD                                Difenoconazol

**Experimental diary:**

- 29-Jul-94 : B : Deep tine cultivated with vibrating tines 60 cm apart and 45 cm deep, rolled.  
04-Aug-94 : B : Ploughed and furrow pressed, rolled.  
30-Aug-94 : T : **SOW DATE** E: Rotary harrowed, CH304/70 drilled at 40 seeds per m<sup>2</sup>.  
31-Aug-94 : T : **SOW DATE** E: Opogard 500 SC at 2.8 l in 220 l.  
12-Sep-94 : B : Draza at 5.5 kg.  
22-Sep-94 : T : **SOW DATE** L: Rotary harrowed, CH 304/70 drilled at 40 seeds per m<sup>2</sup>.  
26-Sep-94 : T : **SOW DATE** L: Opogard 500 SC at 2.8 l in 200 l.

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**Experimental diary:**

21-Nov-94 : T : **AUT FUNG** FP: Sportak 45 at 1.1 l in 220 l.  
 : T : **AUT FUNG** FD: Plover at 0.3 l in 220 l.  
 30-Nov-94 : B : Falcon at 1.0 l in 200 l.  
 16-Dec-94 : B : Farmon PDQ at 15.0 l in 900 l, inter-row sprayed using  
 dribble bar.  
 16-Jan-95 : B : Hand weeding started.  
 17-Feb-95 : B : Hand weeding finished.  
 13-Mar-95 : B : Atlas Simazine at 2.0 l in 200 l.  
 12-Apr-95 : B : Cultar at 0.75 l in 200 l.  
 19-Apr-95 : B : Atlas Dimethoate 40 at 850 ml in 200 l.  
 23-May-95 : B : Atlas Dimethoate 40 at 850 ml in 200 l.  
 20-Jun-95 : B : Corbel at 0.5 l with Tilt Turbo 475 EC at 1.0 l in  
 200 l.  
 30-Jun-95 : B : Atlas Dimethoate 40 at 850 ml in 200 l.  
 16-Aug-95 : B : Combine harvested.

Previous crops: W. wheat 1993, set-aside 1994.

**NOTE:** Samples were taken in September and October 1994 to assess pest and disease damage. Plant counts and visual assessments of damage were made at intervals.

**GRAIN TONNES/HECTARE**

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

<b>INS SEED</b>	D-	DI	Mean	
<b>SOW DATE</b>				
E	1.62	1.87	1.75	
L	2.15	2.28	2.22	
Mean	1.89	2.07	1.98	
<b>FNG SEED</b>	DO	DF	Mean	
<b>SOW DATE</b>				
E	1.75	1.75	1.75	
L	2.25	2.18	2.22	
Mean	2.00	1.96	1.98	
<b>FNG SEED</b>	DO	DF	Mean	
<b>INS SEED</b>				
D-	1.93	1.84	1.89	
DI	2.06	2.09	2.07	
Mean	2.00	1.96	1.98	
<b>AUT FUNG</b>	F-	FP	FD	Mean
<b>SOW DATE</b>				
E	1.69	1.98	1.57	1.75
L	2.28	2.38	1.99	2.22
Mean	1.98	2.18	1.78	1.98

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GRAIN TONNES/HECTARE

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

AUT FUNG INS SEED	F-	FP	FD	Mean
D-	1.91	1.99	1.76	1.89
DI	2.05	2.37	1.79	2.07
Mean	1.98	2.18	1.78	1.98

AUT FUNG FNG SEED	F-	FP	FD	Mean
DO	1.99	2.20	1.80	2.00
DF	1.98	2.16	1.76	1.96
Mean	1.98	2.18	1.78	1.98

SOW DATE	FNG SEED INS SEED	DO	DF
E	D-	1.64	1.61
	DI	1.85	1.89
L	D-	2.23	2.07
	DI	2.26	2.29

SOW DATE	AUT FUNG INS SEED	F-	FP	FD
E	D-	1.54	1.75	1.58
	DI	1.85	2.21	1.55
L	D-	2.29	2.22	1.94
	DI	2.26	2.53	2.04

SOW DATE	AUT FUNG FNG SEED	F-	FP	FD
E	DO	1.71	1.99	1.53
	DF	1.67	1.98	1.60
L	DO	2.26	2.42	2.06
	DF	2.29	2.34	1.92

INS SEED	AUT FUNG FNG SEED	F-	FP	FD
D-	DO	1.86	2.09	1.85
	DF	1.96	1.89	1.67
DI	DO	2.12	2.32	1.74
	DF	1.99	2.43	1.85

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GRAIN TONNES/HECTARE

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

SOW DATE	INS SEED	AUT FUNG FNG SEED	F-	FP	FD
E	D-	DO	1.44	1.77	1.70
		DF	1.64	1.73	1.46
	DI	DO	1.99	2.20	1.36
		DF	1.70	2.23	1.74
L	D-	DO	2.29	2.41	2.00
		DF	2.29	2.04	1.89
	DI	DO	2.24	2.44	2.11
		DF	2.29	2.63	1.96

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

SOW DATE	INS SEED	FNG SEED	AUT FUNG
0.107	0.107	0.107	0.130
SOW DATE	SOW DATE	INS SEED	SOW DATE
INS SEED	FNG SEED	FNG SEED	AUT FUNG
0.151	0.151	0.151	0.184
INS SEED	FNG SEED	SOW DATE	SOW DATE
AUT FUNG	AUT FUNG	INS SEED	INS SEED
		FNG SEED	AUT FUNG
0.184	0.184	0.213	0.261
SOW DATE	INS SEED	SOW DATE	
FNG SEED	FNG SEED	INS SEED	
AUT FUNG	AUT FUNG	FNG SEED	
		AUT FUNG	
0.261	0.261	0.369	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	23	0.369	18.6
GRAIN MEAN DM%	90.4		
PLOT AREA HARVESTED	0.00144		