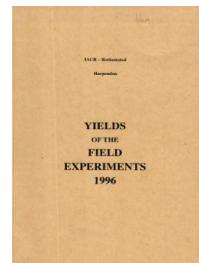


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Yields of the Field Experiments 1996

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

Rothamsted Research

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96/R/LP/3

LUPINS

SOWING DATES, PESTS AND DISEASES

Object: To study overwinter losses of autumn-sown lupins - Appletree.

Sponsors: G.L. Bateman, I. Shield.

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

Whole plot dimensions: 5.76 x 9.0.

Treatments: All combinations of:-

1. **SOW DATE** Date of sowing:

S1	12-Sep-95
S2	28-Sep-95

2. **INSCTCDE** Insecticide:

I-	None
IC	Chlorpyrifos to seedbed
IF	Furathiocarb to seed

3. **AUT FUNG** Fungicide in autumn:

F-	None
FS	Prochloraz
FRB	Vinclozolin and chlorothalonil

Experimental diary:

26-Jul-95 : B : Barley straw removed.
04-Aug-95 : B : Ploughed and furrow pressed.
12-Sep-95 : B : Rotary harrowed.
 : T : **SOW DATE** S1: Drilled CH304/70 at 42 seeds per m².
13-Sep-95 : T : **SOW DATE** S1, **INSCTCDE** IC: Spannit at 1.5 l in 220 l.
14-Sep-95 : T : **SOW DATE** S1: Stomp 400 SC at 5.0 l in 200 l.
 : T : **SOW DATE** S2 (5 plots): Stomp 400 SC at 5.0 l in 200 l.
28-Sep-95 : T : **SOW DATE** S2: Drilled CH304/70 at 42 seeds per m².
29-Sep-95 : T : **SOW DATE** S2, **INSCTCDE** IC: Spannit at 1.5 l in 220 l.
 : T : **SOW DATE** S2 (plots not sprayed on 14 Sep): Stomp 400 SC at
 5.0 l in 220 l.
18-Oct-95 : B : Laser at 0.75 l with Atlas Adjuvant Oil at 1.6 l in 200 l.
20-Nov-95 : T : **AUT FUNG** FS: Sportak 45 at 1.0 l in 220 l.
 : T : **AUT FUNG** FRB: Ronilan FL at 0.75 l with Bravo 500 at 2.25 l
 in 220 l.
29-Mar-96 : B : Atlas Simazine at 2.3 l in 200 l.
 : T : **SOW DATE** S2 (5 plots): Inter-row sprayed Gramoxone 100 at
 4.0 l in 220 l.
10-Jul-96 : B : Mistral at 1.0 l in 260 l.
18-Jul-96 : B : Benlate Fungicide at 1.1 kg in 260 l.

96/R/LP/3

Experimental diary:

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.
11-Sep-96 : B : Combine harvested.

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

NOTE: Plant density was monitored October to April and thrips assessed. Samples were also taken monthly from October to April for disease assessment.

GRAIN TONNES/HECTARE

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

INSCTCDE SOW DATE	I-	IC	IF	Mean	
S1	1.21	1.23	1.28	1.24	
S2	2.52	2.69	2.61	2.60	
Mean	1.87	1.96	1.94	1.92	
AUT FUNG SOW DATE	F-	FS	FRB	Mean	
S1	1.51	1.14	1.07	1.24	
S2	2.48	2.72	2.61	2.60	
Mean	2.00	1.93	1.84	1.92	
INSCTCDE AUT FUNG	F-	FS	FRB	Mean	
I-	2.06	1.83	1.71	1.87	
IC	2.04	1.91	1.93	1.96	
IF	1.89	2.05	1.88	1.94	
Mean	2.00	1.93	1.84	1.92	
SOW DATE	INSCTCDE	AUT FUNG	F-	FS	FRB
S1	I-		1.79	0.93	0.92
	IC		1.34	1.13	1.23
	IF		1.41	1.36	1.05
S2	I-		2.32	2.72	2.51
	IC		2.74	2.69	2.63
	IF		2.37	2.74	2.71

96/R/LP/3

GRAIN TONNES/HECTARE

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

SOW DATE	INSCTCDE	AUT FUNG	SOW DATE	INSCTCDE
0.135	0.166	0.166	0.235	
SOW DATE	INSCTCDE	SOW DATE	INSCTCDE	
AUT FUNG	AUT FUNG	AUT FUNG	AUT FUNG	
0.235	0.287	0.406		

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	17	0.406	21.1

GRAIN MEAN DM% 84.9

PLOT AREA HARVESTED 0.00176