

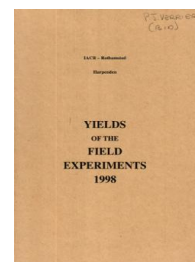
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98/R/LP/8 Herbicide Study - Lupins

Rothamsted Research

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98/R/LP/8

LUPINS

HERBICIDE STUDY

Object: To assess the effects of herbicides on winter lupins - Osier.

Sponsors: H.J. Stevenson, I.F. Shield.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 4.0 x 9.0.

Treatments:

HERBICIDE	Herbicide and timing:		
	<u>Pre-emergence</u>	<u>Autumn</u>	<u>Spring</u>
-	None	None	None
SFP	Pendimethalin	Carbetamide and simazine	Isoxaben and terbuthylazine
S3	Pendimethalin	Carbetamide and simazine	Triasulfuron
S4	Pendimethalin	Carbetamide and simazine	Rimsulfuron
S5	Pendimethalin	Sethoxydim and simazine	Isoxaben and terbuthylazine
S6	Pendimethalin	Carbetamide, with diflufenican and simazine	Isoxaben and terbuthylazine
S7	Pendimethalin	Carbetamide, metazachlor with quinmerac and simazine	Isoxaben and terbuthylazine
S8	Pendimethalin	Carbetamide, carfentrazone-ethyl with flupyr-sulfuron- methyl and simazine	Isoxaben and terbuthylazine

Experimental diary:

- 12-Aug-97 : B : Ploughed and furrow pressed.
- 15-Sep-97 : B : Rolled. Rotary harrowed. DTN 20, undressed, drilled at 40 seeds per m². Rolled.
- 16-Sep-97 : T : **HERBICIDE** SFP, S3, S4, S5, S6, S7, S8: Stomp 400 SC at 5.0 l in 220 l.
- 18-Sep-97 : B : Spannit at 1.1 l in 200 l.
- 12-Nov-97 : T : **HERBICIDE** SFP, S3, S4: Carbetamex at 3.0 kg with MSS Simazine 50 FL at 2.3 l in 220 l.
- : T : **HERBICIDE** S5: MSS Simazine 50 FL at 2.3 l with Checkmate at 1.75 l and Atlas Adjuvant Oil at 0.10 l in 220 l.
- : T : **HERBICIDE** S6: Diflufenican at 0.10 l as Amazon TP with Carbetamex at 3.0 kg and MSS Simazine 50 FL at 2.3 l in 220 l.
- : T : **HERBICIDE** S7: Carbetamex at 3.0 kg with Katamaran at 2.0 l and MSS Simazine 50 FL at 2.3 l in 220 l.

98/R/LP/8

Experimental diary:

12-Nov-97 : T : **HERBCIDE** S8: Carbetamex at 3.0 l with Lexus Class WSB
at 60 g and MSS Simazine 50 FL at 2.3 l in 220 l.
18-Feb-98 : B : Folicur at 0.5 l in 200 l.
24-Feb-98 : B : Rovral Flo at 1.0 l in 200 l.
16-Mar-98 : T : **HERBCIDE** SFP, S5, S6, S7, S8: Skirmish at 1.0 l in
220 l.
02-Apr-98 : B : Danadim Dimethoate 40 at 850 ml in 200 l.
27-Apr-98 : T : **HERBCIDE** S3: Logran 20 WG at 19 g in 220 l.
: T : **HERBCIDE** S4: Titus at 50 g with Luxon Non-Ionic Wetter
at 0.3 l in 220 l.
20-May-98 : B : Folicur at 0.5 l in 200 l. Aphox at 280 g in 200 l.
12-Jun-98 : B : Alto 240 EC at 0.33 l with Bravo 500 at 1.5 l in 200 l.
23-Sep-98 : B : Combine harvested.

Previous crops: Industrial rape 1996, w. barley 1997.

NOTE: Plant populations were assessed on four occasions. Biomass was
measured on three occasions. Lodging was assessed in September.

GRAIN TONNES/HECTARE

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

HERBCIDE

-	2.34
SFP	2.86
S3	2.64
S4	1.38
S5	2.86
S6	2.57
S7	2.79
S8	2.28
Mean	2.46

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

HERBCIDE

0.442

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.541	22.0
GRAIN MEAN DM%	70.8		
PLOT AREA HARVESTED	0.00207		