

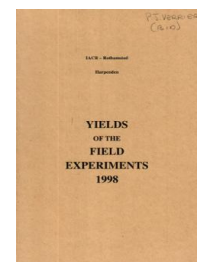
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## Yields of the Field Experiments 1998

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### 98/R/LP/8 Herbicide Study - Lupins

#### Rothamsted Research

Rothamsted Research (1999) *98/R/LP/8 Herbicide Study - Lupins* ; Yields Of The Field Experiments 1998, pp 181 - 182 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

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 m<sup>2</sup>. 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 : **HERBICIDE** 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 : **HERBICIDE** 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 : **HERBICIDE** S3: Logran 20 WG at 19 g in 220 l.  
: T : **HERBICIDE** 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 \*\*\*\*\*

**HERBICIDE**

|      |      |
|------|------|
| -    | 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 \*\*\*

**HERBICIDE**

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 |       |      |