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95/R/LP/6 Spring Herbicides - Lupins

Rothamsted Research

Rothamsted Research (1996) *95/R/LP/6 Spring Herbicides - Lupins* ; Yields Of The Field Experiments 1995, pp 144 - 146 - DOI: <https://doi.org/10.23637/ERADOC-1-50>

95/R/LP/6

LUPINS

SPRING HERBICIDES

Object: To test herbicides applied in the spring at various rates on the survival of weeds and autumn-sown lupins - Highfield VI.

Sponsor: I. Shield.

Design: 3 randomised blocks of (5 X 4) + 2 plots.

Plot dimensions: 3.0 x 9.0.

Treatments: All combinations of:-

1. **HERBCIDE** Herbicide type:

AZ	Aziprotryne
DI	RPEXP 30930A
PE	Pendimethalin
SI	Simazine
TR	Triasulfuron

NOTE: RPEXP 30930A is an experimental product containing diflufenican, exact composition is not disclosed.

2. **HERBRATE** Herbicide rate:

½N	Half normal
N	Normal
2N	Twice normal
4N	Four times normal

plus 2 extra plots

3. **EXTRA** Herbicide at normal rate:

AM	Amidosulfuron
PY	Pyridate

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.

05-Sep-94 : B : Rotary harrowed. CH304/70 drilled at 40 seeds per m².

06-Sep-94 : B : Opogard 500 SC at 2.8 l in 200 l.

12-Sep-94 : B : Draza at 5.5 kg.

30-Nov-94 : B : Falcon at 1.0 l in 200 l.

13-Mar-95 : T : **HERBCIDE** SI, **HERBRATE** ½N, N, 4N: Atlas Simazine at 1.15, 2.3, 4.6, 9.2 l in 220 l respectively.

: T : **HERBCIDE** PE, **HERBRATE** ½N, N, 2N, 4N: Stomp 400 at 2.5, 5.0, 10.0, 20.0 l in 220 l respectively.

04-Apr-95 : T : **EXTRA** AM: Eagle at 40 g in 220 l.

: T : **EXTRA** PY: Lentagran WP at 2.0 kg in 220 l.

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Experimental diary:

04-Apr-95 : T : **HERBCIDE** AZ, **HERBRATE** $\frac{1}{2}$ N, N, 2N, 4N: Brasoran 50 WP at 2.0, 4.0, 8.0, 16.0 kg in 220 l respectively.
04-Apr-95 : T : **HERBCIDE** DI, **HERBRATE** $\frac{1}{2}$ N, N, 2N, 4N: RPEXP 30930A at 0.5, 1.0, 2.0, 4.0 l in 220 l respectively.
 : T : **HERBCIDE** TR, **HERBRATE** $\frac{1}{2}$ N, N, 2N, 4N: Lo-gran 20 WG at 18.75, 37.5, 75.0, 150 g in 220 l respectively.
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.
17-Aug-95 : B : Combine harvested.

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

NOTES: (1) Yields failed on all **EXTRA** AM plots because the herbicide killed the crop. This treatment was omitted from the analysis.
(2) Plant counts were made in March and June, dry weight, fresh weight was recorded in May. Oil content and thousand grain weights were measured after harvest.

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GRAIN TONNES/HECTARE

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

HERBRATE HERBCIDE	½N	N	2N	4N	Mean
AZ	1.50	1.25	1.52	1.34	1.40
DI	1.44	1.27	1.37	1.41	1.37
PE	1.71	1.55	1.58	1.83	1.67
SI	1.43	1.54	1.57	1.60	1.53
TR	1.42	1.38	1.10	1.07	1.24
Mean	1.50	1.40	1.43	1.45	1.44
EXTRA	PY				
	1.41				

Grand mean 1.44

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

HERBCIDE	HERBRATE	HERBCIDE HERBRATE & EXTRA
0.105	0.094	0.209

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	40	0.257	17.8

GRAIN MEAN DM% 91.1

PLOT AREA HARVESTED 0.00205