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96/R/LP/6 Spring Herbicides - Lupins

Rothamsted Research

Rothamsted Research (1997) *96/R/LP/6 Spring Herbicides - Lupins* ; Yields Of The Field Experiments 1996, pp 147 - 149 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

96/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 - Appletree.

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. **HERBICIDE** Herbicide, common name (product name):

BR	Aziprotryne (Brasoran 50WP)
RP	Diflufenican (EXP 30930A, not commercially available)
FO	Cyanazine (Fortrol)
AS	Simazine (Atlas Simazine)
LO	Triasulfurin (Lo-gran 20 WG)

2. **HERBRATE** Herbicide product rate, all applied in 220 l:

	BR	RP	FO	AS	LO
Units	kg	l	l	l	g
1/2N Half normal	2.0	0.5	1.0	1.2	19
1N Normal	4.0	1.0	2.0	2.3	38
2N Twice normal	8.0	2.0	4.0	4.6	75
4N Four times normal	16.0	4.0	8.0	9.2	150

plus 2 extra plots

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

KN	Metazachlor and quinmerac (Katamaran)
TX	MCPB (Tropotox)

For analysis tables only

	HERBICIDE	HERBRATE
LO 1/2N	LO	1/2N
LO 1N	LO	1N
LO 2N	LO	2N

LO 4N and TX failed and have been omitted from the analysis

Experimental diary:

26-Jul-95 : B : Straw removed.
04-Aug-95 : B : Ploughed and furrow pressed, rolled.
08-Sep-95 : B : Rotary harrowed, drilled CH304/70 at 40 seeds per m².

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Experimental diary:

14-Sep-95 : B : Stomp 400 at 5.0 l in 200 l.
18-Oct-95 : B : Laser at 0.75 l with Atlas Adjuvant Oil at 1.6 l in
200 l.
15-Mar-96 : T : **HERBICIDE AS**: Treatments applied.
29-Mar-96 : B : One-half of all the plots in one block were sprayed in
error with Atlas Simazine at 2.3 l in 200 l.
25-Apr-96 : T : **EXTRA KN**: Katamaran at 2.5 l in 220 l.
: T : **EXTRA TX**: Tropotox at 5.6 l in 220 l.
: T : **HERBICIDE BR, RP, FO**: Treatments applied.
26-Apr-96 : T : **HERBICIDE LO**: Treatments applied.
10-Jul-96 : B : Mistral at 1.0 l in 260 l.
18-Jul-96 : B : Benlate Fungicide at 1.1 with Pirimicarb 50 DG at 280 g
and 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: Plants were counted in May and June, samples were taken in May for dry matter analysis.

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GRAIN TONNES/HECTARE

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

HERBRATE HERBCIDE	1/2N	1N	2N	4N	Mean
BR	1.22	1.27	0.39	0.98	0.96
RP	1.00	0.62	1.32	0.88	0.95
FO	0.92	0.82	0.99	0.79	0.88
AS	1.11	1.36	0.69	1.08	1.06
Mean	1.06	1.02	0.85	0.93	0.97
EXTRA	KN	LO 1/2N	LO 1N	LO 2N	
	1.14	0.89	0.28	0.24	

Grand mean 0.90

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

HERBCIDE	HERBRATE	HERBCIDE HERBRATE & EXTRA
0.210	0.210	0.420

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	38	0.514	57.2

GRAIN MEAN DM% 73.7

PLOT AREA HARVESTED 0.00161