

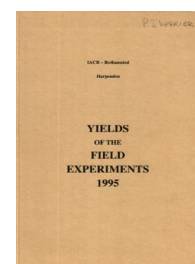
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95/R/LP/5 Autumn Herbicides - Lupins

Rothamsted Research

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95/R/LP/5

LUPINS

AUTUMN HERBICIDES

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

Sponsor: I. Shield.

Design: 3 randomised blocks of 4 x 4 plots.

Plot dimensions: 3.0 x 9.0.

Treatments: All combinations of:-

1. **HERBICIDE** Herbicide and time of application:

ST Pendimethalin pre-emergence
OK Terbutylazine with terbutryn pre-emergence,
 propyzamide post-emergence
SI Simazine pre-emergence
O Terbutylazine with terbutryn pre-emergence
2. **RATE** Rate of herbicide application:

 $\frac{1}{2}$ N Half normal
N Normal
2N Twice normal
4N Four times normal

Experimental diary:

29-Jul-94 : B : Deep tine cultivated with vibrating tines 60 cm apart
 45 cm deep, rolled.
04-Aug-94 : B : Ploughed and furrow pressed, rolled.
05-Sep-94 : B : Rotary harrowed, CH304/70 dressed Germipro UFB, drilled
 at 40 seeds per m².
07-Sep-94 : T : **HERBICIDE** OK, O **RATE** $\frac{1}{2}$ N, N, 2N, 4N: Opogard 500 SC at
 1.4, 2.8, 5.6, 11.2 l in 220 l respectively.
 : T : **HERBICIDE** SI **RATE** $\frac{1}{2}$ N, N, 2N, 4N: Atlas Simazine at 0.5,
 1.0, 2.0, 4.0 l in 220 l respectively.
 : T : **HERBICIDE** ST **RATE** $\frac{1}{2}$ N, N, 2N, 4N: Stomp 400 at 2.5, 5.0,
 10.0, 20.0 l in 220 l respectively.
12-Sep-94 : B : Draza at 5.5 kg.
21-Nov-94 : T : **HERBICIDE** OK **RATE** $\frac{1}{2}$ N, N, 2N, 4N: Kerb Flo at 2.1 l in
 220 l.
30-Nov-94 : B : Falcon at 1.0 l in 200 l.
14-Mar-95 : B : Logran 20 WG at 37.5 g in 200 l.
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.

95/R/LP/5

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

NOTE: Plant density was assessed in autumn, winter and spring. Dry matter was measured in winter and spring, weed cover was assessed in January.

GRAIN TONNES/HECTARE

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

RATE HERBCIDE	½N	N	2N	4N	Mean
ST	1.90	1.81	1.93	1.39	1.76
OK	2.04	1.84	1.83	1.63	1.83
SI	1.54	1.89	1.90	1.91	1.81
O	1.50	1.58	1.75	1.91	1.69
Mean	1.74	1.78	1.85	1.71	1.77

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

HERBCIDE	RATE	HERBCIDE RATE
0.097	0.097	0.194

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	30	0.238	13.4

GRAIN MEAN DM% 91.1

PLOT AREA HARVESTED 0.00205