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00/R/LP/3 Weeds in Lupins

Rothamsted Research

Rothamsted Research (2001) *00/R/LP/3 Weeds in Lupins* ; Yields Of The Field Experiments 2000, pp 168 - 170 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/LP/3

LUPINS

WEEDS IN LUPINS

Object: To study the competitive effects of two broad-leaved weeds on the growth and yield of lupins. To test the effects of delaying control of chickweed until the spring - Highfield IV/Road Piece East.

Sponsors: P.J.W. Lutman.

Design: 4 randomised blocks of 5 + 5 + 2 plots.

Whole plot dimensions: 6.0 x 9.0.

Treatments:

WEEDHERB	Weed type and target populations, plants per m ² :
G0	<i>Galium aparine</i> 0
G1	<i>Galium aparine</i> 4
G2	<i>Galium aparine</i> 8
G3	<i>Galium aparine</i> 16
G4	<i>Galium aparine</i> 32
S0	<i>Stellaria media</i> 0
S1	<i>Stellaria media</i> 100
S2	<i>Stellaria media</i> 200
S3	<i>Stellaria media</i> 400
S4	<i>Stellaria media</i> 800
S2H	<i>Stellaria media</i> 200 with herbicide in January
S4H	<i>Stellaria media</i> 800 with herbicide in January

Experimental diary:

13-Aug-99 : B : : Ploughing started.
14-Aug-99 : B : : Ploughing completed.
13-Sep-99 : T : : Weed seed broadcast as treatment.
: B : : Rotary harrowed, drilled, DTN 20, tr. iprodione and carbendazim, at 40 seeds/m² with the Accord drill.
: B : : Dursban 4 at 1.5 l in 200 l.
14-Sep-99 : B : : Rolled.
15-Sep-99 : B : : Draza at 5.0 kg.
17-Sep-99 : T : G0,S0 : Stomp 400 SC at 5.0 l in 220 l.
14-Oct-99 : B : : Cyperkill 10 at 250 ml in 200 l.
09-Nov-99 : B : : Falcon at 1.0 l in 200 l.
12-Nov-99 : T : G0,S0 : tm)Alpha Simazine 50 SC at 2.3 l in 220 l.
: T : G0,S0 : tm)Carbetamex at 3.0 kg in 220 l.
24-Jan-00 : T : S2H,S4H: Lo-Gran 20 WP at 18.5 g in 220 l.
28-Apr-00 : B : : tm)Bravo 500 at 1.5 l in 200 l.
: B : : tm)Folicur at 0.5 l in 200 l.
04-Jul-00 : B : : tm)Folicur at 0.5 l in 200 l.
: B : : tm)Aphox at 280 g in 200 l.
: B : : tm)Enhance Low Foam at 50 ml in 200 l.
14-Sep-00 : B : : Combine harvested.

Previous crops: W. wheat 1998, w. barley 1999.

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NOTE: Plant densities were assessed regularly in autumn. Plant biomass and components of yield were measured in January, April, June and August. Harvested grain was cleaned to remove weed seed. S2H and S4H herbicide treatment severely damaged lupins.

GRAIN TONNES/HECTARE

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

WEEDHERB

G0	4.23
G1	3.57
G2	3.50
G3	3.00
G4	2.86
S0	4.08
S1	3.65
S2	3.95
S3	3.47
S4	3.80
S2H	1.40
S4H	1.10

Mean 3.22

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

WEEDHERB

0.343

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.484	15.1

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CLEANED GRAIN TONNES/HECTARE

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

WEEDHERB

G0	4.19
G1	3.45
G2	3.37
G3	2.78
G4	2.58
S0	4.04
S1	3.61
S2	3.91
S3	3.43
S4	3.76
S2H	1.38
S4H	1.09

Mean 3.13

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

WEEDHERB

0.346

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.489	15.6
GRAIN MEAN DM%	63.8		
PLOT AREA HARVESTED	0.00216		