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95/R/LP/8 Control of Insect Pests - Lupins

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95/R/LP/8

LUPINS

CONTROL OF INSECT PESTS

Object: To assess the effect of insect controls on the growth and yield of autumn-sown lupins - Highfield VI.

Sponsors: A.W. Ferguson, I. Shield.

Design: 3 randomised blocks of 8 plots.

Plot dimensions: 3.0 x 9.0.

Treatments:

INSCTCDE	Insecticide applied as seed treatment or spray:
-	None
S	Seed treatment (furathiocarb)
SD	Seed treatment (furathiocarb), deltamethrin in winter and spring
SA	Seed treatment (furathiocarb), pirimicarb as required
SAA	Seed treatment (furathiocarb), pirimicarb with wetting agent, as required
SAS	Seed treatment (furathiocarb), pirimicarb with sticker, as required
SH	Seed treatment (furathiocarb), dimethoate pre-flowering and as required
F	Seed treatment (furathiocarb), deltamethrin, pirimicarb with wetting agent and dimethoate as required

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. CH 304/70 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.

21-Nov-94 : T : **INSCTCDE** SD, F: Decis at 300 ml in 220 l.

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

13-Mar-95 : B : Atlas Simazine at 2.0 l in 200 l.

04-Apr-95 : T : **INSCTCDE** SD, F: Decis at 300 ml in 220 l.

12-Apr-95 : B : Cultar at 0.75 l in 200 l.

28-Apr-95 : T : **INSCTCDE** SA: Pirimicarb 50 DG at 280 g in 220 l.
: T : **INSCTCDE** SH, F: Atlas Dimethoate 40 at 850 ml in 220 l.
: T : **INSCTCDE** SAS: Pirimicarb 50 DG at 280 g with Intracrop BLA at 220 ml in 200 l.
: T : **INSCTCDE** SAA: Pirimicarb 50 DG at 280 g with Vassgro Spreader at 55 ml in 220 l.

31-May-95 : T : **INSCTCDE** SA: Pirimicarb 50 DG at 280 g in 220 l.
: T : **INSCTCDE** SAS: Pirimicarb 50 DG at 280 g with Intracrop BLA at 220 ml in 220 l.

96/R/LP/8

Experimental diary:

31-May-95 : T : **INSCTCDE** SAA, F: Pirimicarb 50 DG at 280 g with Vassgro
Spreader at 55 ml in 220 l.
20-Jun-95 : B : Corbel at 0.5 l with Tilt Turbo 475 EC at 1.0 l in
200 l.
18-Aug-95 : B : Combine harvested.

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

NOTE: Plant samples were taken before and after each insecticide treatment
to assess damage by bean seed fly and infestation of lupin aphid.
Establishment counts were made in October 1994.

GRAIN TONNES/HECTARE

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

INSCTCDE

-	0.85
S	0.96
SD	0.91
SA	1.54
SAA	1.68
SAS	1.57
SH	0.38
F	1.59
Mean	1.19

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

INSCTCDE

0.288

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.352	29.7
GRAIN MEAN DM%	90.7		
PLOT AREA HARVESTED	0.00130		