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Yields of the Field Experiments 2000

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00/R/LP/5 Pests and Diseases - Lupins

Rothamsted Research

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00/R/LP/5

LUPINS

PESTS AND DISEASES

Object: To test methods of bean seed fly control and to identify possible causes of blindness - Highfield IV/Road Piece East.

Sponsors: I.F. Shield, G. Bateman, H.J. Stevenson and J.V. Ethridge.

Design: 3 blocks of 10 plots.

Whole plot dimensions: 2.0 x 9.0.

Treatments:

PESTCONT	Pest Control:
-	None
SS	Stale seedbed
C	Chlorpyrifos
CI	Chlorpyrifos incorporated
G1	Imidacloprid low rate seed dressing
G2	Imidacloprid high rate seed dressing
DC	Deltamethrin 2-4 leaf stage
DM	Dimethoate 2-4 leaf stage

Experimental diary:

13-Aug-99 : B : : Ploughing started.
14-Aug-99 : B : : Ploughing completed.
26-Aug-99 : T : SS : Rotary harrowed.
13-Sep-99 : T : CI : Dursban 4 at 1.5 l in 220 l. Rotary harrowed.
14-Sep-99 : T : C : Dursban 4 at 1.5 l in 220 l.
 : B : : Drilled, DTN 20, dressed as treatment at 40 seeds/m²
 with the Oyjord drill. Rolled.
15-Sep-99 : B : : Draza at 5.0 kg.
21-Sep-99 : B : : Stomp 400 SC at 5.0 l in 200 l.
12-Oct-99 : T : DC : Decis at 350 ml in 220 l.
 : T : DM : BASF Dimethoate 40 at 850 ml in 220 l.
12-Nov-99 : B : : tm)Alpha Simazine 50 SC at 2.3 l in 200 l.
 : B : : tm)Carbetamex at 3.0 kg in 200 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.

NOTE: Plant counts were done monthly from emergence to mid-winter and in April. Pest damage was assessed regularly including root damage in November.

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GRAIN TONNES/HECTARE

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

PESTCONT

-	3.79
SS	4.09
C	4.14
CI	4.16
G1	3.70
G2	3.70
DC	4.08
DM	4.17

Mean 3.94

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

PESTCONT

0.339 min.rep
0.277 max-min

PESTCONT

min.rep Any of the remainder
max-min - v any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	20	0.415	10.5
GRAIN MEAN DM%	53.0		
PLOT AREA HARVESTED	0.00216		