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Yields of the Field Experiments 1998

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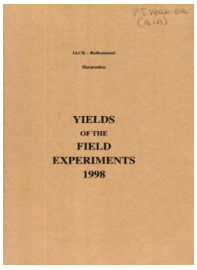

98/R/LP/5 Pests and Diseases - Lupins

Rothamsted Research

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98/R/LP/5

LUPINS

PESTS AND DISEASES

Object: To test methods of bean seed fly control, identify possible causes of plant blindness and identify the link between insect damage and fungal pathogens - Osier.

Sponsors: I.F. Shield, G.L. Bateman, H.J. Stevenson, J.V. Etheridge.

Design: 3 blocks of 12 plots.

Plot dimensions: 2.0 x 9.0.

Treatments:

PESTCONT

–	New seed undressed
2Y-	Two year old seed, undressed
–	One year old seed, undressed
YS	One year old seed, undressed, drilled into a stale seedbed
Y-C	One year old seed, undressed, plus chlorpyrifos at 1.0 l post drilling
Y-CI	One year old seed, undressed, plus chlorpyrifos at 1.0 l incorporated into seedbed
YCIF	One year old seed, undressed, plus chlorpyrifos at 1.0 l incorporated into seedbed then tebuconacole at 250 g in November
YG1	One year old seed dressed furathiocarb
YG2	One year old seed dressed imidacloprid
YX	One year old seed dressed bendiocarb
YD	One year old seed, dressed furathiocarb, then deltamethrin at 8.8 g at 2-4 leaf stage
YM	One year old seed, dressed furathiocarb, then dimethoate at 340 g at 2-4 leaf stage

Experimental diary:

12-Aug-97 : B : Ploughed and furrow pressed.
: **T** : **PESTCONT** YS: Rotary harrowed.
26-Aug-97 : **T** : **PESTCONT** YS: Scythe LC at 2.0 l in 220 l.
01-Sep-97 : **T** : **PESTCONT** All except YS: Rotary harrowed.
02-Sep-97 : **T** : **PESTCONT** Y-CI, YCIF: Spannit at 1.5 l in 220 l.
: B : Rotary harrowed. Lucyanne dressed as treatment, drilled at 40 seeds per m².
: **T** : **PESTCONT** Y-C: Spannit at 1.5 l in 220 l.
05-Sep-97 : **T** : Stomp 400 SC at 5.0 l in 200 l.
29-Sep-97 : **T** : **PESTCONT** YD: Decis at 300 ml in 220 l.
: **T** : **PESTCONT** YM: Atlas Dimethoate 40 at 850 ml in 220 l.
27-Oct-97 : B : Checkmate at 1.75 l with Atlas Adjuvant Oil at 2.0 l in 200 l.
12-Nov-97 : **T** : **PESTCONT** YCIF: Folicur at 1.0 l in 220 l.

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98/R/LP/5

Experimental diary:

26-Nov-97 : B : Gesatop 500 SC at 2.5 l in 200 l.
16-Mar-98 : B : Skirmish at 1.0 l in 200 l.
02-Apr-98 : B : Danadim Dimethoate 40 at 850 ml in 200 l.
20-May-98 : B : Folicur at 0.5 l in 200 l. Aphox at 280 g in 200 l.
12-Jun-98 : B : Alto 240 EC at 0.33 l with Bravo 500 at 1.5 l in 200 l.
17-Sep-98 : B : Combine harvested.

Previous crops: Set-aside and industrial rape 1996, w. wheat and w. barley 1997.

NOTE: Apical dissections were made in December and January. Plant populations were assessed on six occasions. Bean seed fly and slug damage was assessed in September 97 and lodging in September 98.

GRAIN TONNES/HECTARE

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

PESTCONT	
-	0.76
2Y-	1.33
Y-	1.25
YS	1.78
Y-C	1.00
Y-CI	1.36
YCIF	1.44
YG1	1.30
YG2	1.72
YX	1.27
YD	1.20
YM	1.54
Mean	1.33

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

PESTCONT
0.355

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	22	0.435	32.7

GRAIN MEAN DM% 80.5

PLOT AREA HARVESTED 0.00134

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