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96/R/LP/4 Fusarium Study on Lupins

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96/R/LP/4

LUPINS

FUSARIUM STUDY ON LUPINS

Object: To assess the effects of fungicidal seed treatments on plant survival and *fusarium* infection - Appletree.

Sponsors: G.L. Bateman, J.F. Jenkyn.

Design: 4 randomised blocks of 2 x 4 plots.

Plot dimensions: 2.88 x 9.0.

Treatments: All combinations of:-

- | | |
|------------|---------------------------|
| 1. INOC | Inoculation: |
| I- | None |
| IF | <i>Fusarium avenaceum</i> |
| 2. SEED TR | Seed treatment: |
| - | None |
| IC | Iprodione and carbendazim |
| FEN | Fenpiclonil |
| FLU | Fludioxinil |

Experimental diary:

- 26-Jul-95 : B : Straw removed.
04-Aug-95 : B : Ploughed and furrow pressed, rolled.
12-Sep-95 : T : INOC IF: Inoculum applied.
13-Sep-95 : B : Rotary harrowed twice, CH304/70 drilled, at 40 seeds per m².
14-Sep-95 : B : Stomp 400 SC at 5.0 l in 200 l, Spannit at 1.5 l in 200 l.
18-Oct-95 : B : Laser at 0.75 l with Atlas Adjuvant Oil at 1.6 l in 200 l.
29-Mar-96 : B : Atlas Simazine at 2.3 l in 200 l.
10-Jul-96 : B : Mistral at 1.0 l in 260 l.
18-Jul-96 : B : Benlate Fungicide at 1.1 kg with Pirimicarb 50 DG at 280 g and Vassgro Spreader at 78 ml in 260 l.
03-Sep-96 : B : Reglone at 3.0 l in 390 l.
11-Sep-96 : B : Combine harvested.

Previous crops: W. rape 1994, w. barley 1995.

NOTES: (1) Inoculum was applied on oat seed at 2 kg per plot.
(2) Plants were counted and diseases assessed.

96/R/LP/4

GRAIN TONNES/HECTARE

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

SEED TR	-	IC	FEN	FLU	Mean
INOC					
I-	0.99	1.04	1.14	0.81	0.99
IF	0.87	0.59	0.61	0.67	0.69
Mean	0.93	0.82	0.87	0.74	0.84

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

INOC	SEED TR	INOC SEED TR
0.107	0.151	0.214

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	21	0.302	36.0

GRAIN MEAN DM% 84.3

PLOT AREA HARVESTED 0.00227