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97/R/LP/12 Spring-sown Genotypes - Lupins

Rothamsted Research

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97/R/LP/12

WINTER LUPINS

SPRING-SOWN GENOTYPES

Object: To evaluate some new spring-sown genotypes of lupins - Pastures.

Sponsors: I. Shield, G.J.F. Milford, H.J. Stevenson, J.E. Leach,
T. Scott.

Design: 3 randomised blocks of 6 plots, plus 2 extra plots.

Whole plot dimensions: 4.0 x 7.0.

Treatments:

1. **VARIETY** Variety and nitrogen:
- | | |
|-----|---------------------------------|
| 73 | Ludet |
| AG | Agena |
| AR | Arthur |
| MI | Minori |
| 73N | Ludet with nitrogen fertilizer |
| MIN | Minori with nitrogen fertilizer |

2. **EXTRA**

- | | |
|----|--------|
| 34 | DTN 34 |
| BA | Bardo |

Experimental diary:

- 06-Mar-97 : B : Spring-tine cultivated.
10-Mar-97 : B : Rotary harrowed.
 : T : **VARIETY:** Varieties drilled at 80 seeds per m².
11-Mar-97 : B : Stomp 400 SC at 5.0 l in 200 l.
06-Apr-97 : B : Irrigated 25 mm.
15-Apr-97 : B : Irrigated 14 mm.
30-Apr-97 : B : Decis at 300 ml in 200 l.
04-Jun-97 : B : Logran 20 WG at 18.75 g in 300 l.
16-Jun-97 : B : Laser at 1.0 l with Comulin at 1.6 l in 200 l.
17-Jun-97 : T : **VARIETY** MIN: 46% N at 163 kg.
09-Jul-97 : B : Mistral at 1.0 l with BASF Dimethoate 40 at 850 ml in
 300 l.
31-Jul-97 : T : **VARIETY** 73N: 46% N at 163 kg.
22-Oct-97 : B : Combine harvested.

NOTE: **EXTRA** DTN 34 failed to mature.

Previous crops: W. oats 1995, w. wheat 1996.

NOTE: Plant numbers, date of flowering, canopy expansion, crop structure and components of yield were measured. Four pre-harvest and harvest samples were taken for dry matter and nitrogen content determinations.

97/R/LP/12

GRAIN TONNES/HECTARE

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

VARIETY

73	3.38
AG	2.49
AR	2.60
MI	1.19
73N	3.33
MIN	1.98
Mean	2.49

EXTRA

BA	0.95
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*** Standard errors of differences of means ***

VARIETY

0.309

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

Stratum	d.f.	s.e.	cv%
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BLOCK.WP	10	0.378	15.2
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GRAIN MEAN DM% 77.2

PLOT AREA HARVESTED 0.00168