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97/R/LP/13 Spring Genotypes and Sowing Dates - Lupins

Rothamsted Research

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97/R/LP/13

LUPINS

SPRING GENOTYPES AND SOWING DATES

Object: To measure the gas exchange, nitrogen economy and morphological characters of three spring lupin genotypes - Pastures

Sponsors: I. Shield, G.F.J. Milford, J.E. Leach, M. Dracup.

Design: 3 randomised blocks of 2 x 3 plots.

Whole plot dimensions: 4.0 x 9.0.

Treatments: All combinations of:-

1 GENOTYPE

ME	Merrit
X	88AA29

2 SOW DATE Dates of sowing:

SE	07-Mar-97
SM	01-Apr-97
SL	14-Apr-97

Experimental diary:

06-Mar-97 : B : Spring-tine cultivated.
17-Mar-97 : B : Rotary harrowed.
17-Mar-97 : T : **SOW DATE** SE: Genotypes undressed drilled at 60 seeds per m². MSS Simazine 50 FL at 2.0 l in 220 l.
24-Mar-97 : B : Stomp 400 SC at 5.0 l in 200 l.
01-Apr-97 : T : **SOW DATE** SM: Genotypes undressed drilled at 60 seeds per m².
04-Apr-97 : B : Irrigated 25 mm.
07-Apr-97 : T : **SOW DATE** SM: MSS Simazine 50 FL at 2.0 l in 220 l.
14-Apr-97 : T : **SOW DATE** SL: Rotary harrowed, Genotypes undressed drilled at 60 seeds per m².
15-Apr-97 : B : Irrigated 14 mm.
18-Apr-97 : T : **SOW DATE** SL: MSS Simazine 50 FL at 2.0 l in 220 l.
30-Apr-97 : B : Decis at 300 ml in 200 l.
09-Jul-97 : B : Mistral at 1.0 l with BASF Dimethoate 40 at 850 ml in 300 l.
05-Sep-97 : B : Harvest at 3.0 l in 400 l.
22-Sep-97 : B : Combine harvested.

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

NOTE: Plant populations were assessed in spring and before harvest. Leaf and branch numbers were assessed in July. Light interception was measured frequently through the growing season. Dry matter and nitrogen content was measured on four occasions. After harvest oil and nitrogen content and grain density was measured.

97/R/LP/13

GRAIN TONNES/HECTARE

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

SOW DATE	SE	SM	SL	Mean
GENOTYPE				
ME	1.48	1.34	1.37	1.40
X	1.18	0.89	0.67	0.91
Mean	1.33	1.12	1.02	1.16

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

GENOTYPE	SOW DATE	GENOTYPE
		SOW DATE
0.124	0.152	0.215

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	10	0.263	22.7
GRAIN MEAN DM%	84.7		
PLOT AREA HARVESTED	0.00216		