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96/R/LP/13 Spring-sown Genotypes and Sowing Dates - Lupins

Rothamsted Research

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96/R/LP/13

LUPINS

SPRING-SOWN GENOTYPES AND SOWING DATES

Object: To measure the growth and yield of two winter lupin genotypes sown in spring - Long Hoos V 8.

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

Design: 4 randomised blocks of 3 x 2 plots.

Whole plot dimensions: 3.0 x 9.0.

Treatments: All combinations of:-

1. **SOW DATE** Dates of sowing:

S1	14-Mar-96
S2	28-Mar-96
S3	10-Apr-96

3. **GENOTYPE**

70	CH304/70
73	CH304/73

Experimental diary:

17-Nov-95 : B : Ploughed.
13-Mar-96 : B : Heavy spring-tine cultivated.
14-Mar-96 : T : **SOW DATE** S1: Genotypes, dressed Germipro, drilled at 200 kg.
15-Mar-96 : T : **SOW DATE** S1: Stomp 400 SC at 5.0 l in 220 l.
28-Mar-96 : T : **SOW DATE** S2: Genotypes drilled at 200 kg.
02-Apr-96 : T : **SOW DATE** S2: Stomp 400 SC at 5.0 l in 220 l.
10-Apr-96 : T : **SOW DATE** S3: Genotypes drilled at 200 kg.
11-Apr-96 : T : **SOW DATE** S3: Stomp 400 SC at 5.0 l in 220 l.
05-Jun-96 : B : Lo-gran 20 WG at 18.8 g in 200 l.
26-Jul-96 : B : Pirimicarb 50 DG at 280 g with Vassgro Spreader at 120 ml in 400 l.
30-Jul-96 : B : Mistral at 1.0 l in 400 l.
17-Oct-96 : T : **SOW DATE** S1 **GENOTYPE** 70: Combine harvested.
06-Nov-96 : T : **SOW DATE** S1, S2, S3 **GENOTYPE** 73 and **SOW DATE** S2, **GENOTYPE** 70: Combine harvested.
02-Dec-96 : T : **SOW DATE** S3 **GENOTYPE** 70: Topped.

Previous crops: S. beans 1994, s. wheat and s. barley 1995

96/R/LP/13

- NOTES: (1) Plant density was assessed in autumn. Main stem leaf numbers and date of flowering was noted. Plant structure was assessed in July and heights measured in August. Components of yield were assessed at harvest.
- (2) The treatment combination **SOW DATE** S3, **GENOTYPE** 70 was not harvested as it failed to mature. This has been omitted from the analysis.

GRAIN TONNES/HECTARE

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

GENOTYPE	70	73
SOW DATE		
S1	1.83	2.07
S2	1.79	1.99
S3	*	1.95

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

SOW DATE
GENOTYPE
0.155

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.219	11.4
GRAIN MEAN DM%	73.0		
PLOT AREA HARVESTED	0.00207		