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

Rothamsted Research

Rothamsted Research (1997) *96/R/LP/13 Spring-sown Genotypes and Sowing Dates - Lupins ; Yields Of The Field Experiments 1996*, pp 159 - 160 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

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		