ROTHAMSTED RESEARCH

Yields of the Field Experiments 2000

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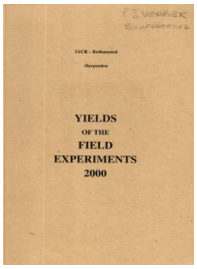

00/R/LP/11 Yellow Lupins

Rothamsted Research

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00/R/LP/11

LUPINS

YELLOW LUPINS

Object: To study the effects of sowing date and seed rate upon maturity date and seed yield of yellow lupin - Highfield IV/Road Piece East.

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

Design: 3 partially randomised blocks of 3 x 3 plots.

Whole plot dimensions: 3.0 x 9.0.

Treatments: All combinations of:-

1. **SOW DATE**

D1	Sown early
D2	Sown middle
D3	Sown late

2. **SEED RATE** Seeds per m^2:

S1	70
S2	100
S3	130

Experimental diary:

13-Aug-99	B		Ploughing started.
14-Aug-99	B		Ploughing completed.
24-Feb-00	B		PDQ at 4.0 l in 200 l.
07-Mar-00	B		Spring-tine cultivated.
08-Mar-00	**T**	D1	Combination drilled, Wodjil, recleaned, with the Accord drill.
17-Mar-00	**T**	D1	Stomp 400 SC at 3.0 l in 220 l.
28-Mar-00	**T**	D2	Combination drilled, Wodjil, recleaned, with the Accord drill.
31-Mar-00	**T**	D2	Stomp 400 SC at 3.0 l in 220 l.
02-May-00	**T**	D3	Combination drilled, Wodjil, recleaned, with the Accord drill.
08-May-00	**T**	D3	Stomp 400 SC at 3.0 l in 220 l.
02-Jun-00	B		Falcon at 1.0 l in 200 l.
30-Aug-00	B		tm) Enhance Low Foam at 400 ml in 400 l.
	B		tm) Reglone at 3.0 l in 400 l.
12-Sep-00	B		Combine harvested.

Previous crops: W. barley and w. wheat 1998, w. barley 1999.

NOTES: (1) The design was intended to be a randomised block experiment but treatment combination **SOW DATE** D2 **SEEDRATE** S1 was incorrectly drilled, so plots with the correct combination were sown at the edges of the experiment. The yields were analysed using covariates to remove block effects.

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NOTES: (2) Apical dissections were made frequently between April and June. Plant densities were assessed in May, June and August. Flowering date was recorded. Branch and number of leaves were counted and plant height measured in July. Samples were taken in August from the first two sowings to assess components of yields.

GRAIN TONNES/HECTARE

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

SOW DATE / **SEED RATE**	D1	D2	D3	Mean
S1	1.30	1.41	0.78	1.16
S2	1.57	1.71	0.97	1.42
S3	1.82	1.74	1.41	1.66
Mean	1.56	1.62	1.05	1.41

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

SEED RATE	**SOW DATE**	**SEED RATE SOW DATE**
0.126	0.127	0.220

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	16	0.266	18.9

GRAIN MEAN DM% 79.6

PLOT AREA HARVESTED 0.00206 or 0.00216 (**SOW DATE** D3)

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