

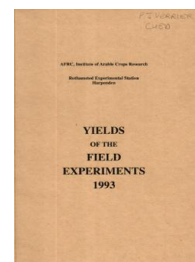
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93/R/LP/1 Lupin Varieties - W. Lupins

Rothamsted Research

Rothamsted Research (1994) *93/R/LP/1 Lupin Varieties - W. Lupins* ; Yields Of The Field Experiments 1993, pp 152 - 153 - DOI: <https://doi.org/10.23637/ERADOC-1-48>

93/R/LP/1

WINTER LUPINS

LUPIN VARIETIES

Object: To assess crop structure, yield and maturity date of a number of lines of winter lupins - Long Hoos IV South.

Sponsors: G.F.J. Milford, H.J. Stevenson, J.E. Leach, J.M. Day, T. Scott.

Design: 3 blocks of 15 plots.

Whole plot dimensions: 2.0 x 3.0.

Treatments:

GENOTYPE	Genotypes:
L1	CH304/70
L2	CH304/71
L3	CH304/73
L4	XA 100
L5	RES 1
L6	LUS 5
L7	LUS 21
L8	LUS 24
L9	LUS 26
L10	LUS 54
L11	LUS 60
L12	LUS 64
L13	LUS 118
L14	LUS 131
L15	LUS 139

Experimental Diary:

06-Oct-92 : B : Ploughed.
09-Oct-92 : B : Rotary harrowed.
 : T : **GENOTYPE:** All genotypes, inoculated with rhizobium, hand sown at 42 seeds per square metre.
 : B : Yaltox at 35 kg, by hand.
13-Oct-92 : B : Opogard 500 FW at 2.8 l in 200 l.
22-Jun-93 : B : Power Dimethoate at 1.7 kg in 200 l.
02-Jul-93 : B : Mistral at 1.0 l in 200 l.
 : B : Sportak 45 at 1.1 l in 200 l.
01-Sep-92 : T : **GENOTYPE** L2, L3: Hand harvested.
07-Sep-92 : T : **GENOTYPE** L5, L8, L12 excluding one replicate of L12:
 Hand harvested.
29-Sep-92 : T : **GENOTYPE** L1, L6, L11, L13, L14: Hand harvested.
07-Oct-92 : T : **GENOTYPE** L15 plus one replicate of L10 and L12:
 Hand harvested.
26-Oct-92 : T : **GENOTYPE** L4, L7, L9, L10 excluding one replicate of L10:
 Hand harvested.

93/R/LP/1

Previous crops: S. barley 1991, fallow 1992.

- NOTES:** (1) Hand harvesting period was extended because of wet weather.
 (2) Plant counts were made throughout the season and measurements of plant height, structure, time of flowering, flower colour and floret numbers taken. Pod, seed and branch numbers and seed dry weights were measured at harvest.
 (3) Because of rodent damage the yield of one plot was lost with treatment **GENOTYPE** L15. An estimated value was used in the analysis.

GRAIN TONNES/HECTARE

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

GENOTYPE	
L1	6.28
L2	0.66
L3	1.71
L4	2.44
L5	0.45
L6	3.61
L7	2.88
L8	1.38
L9	2.89
L10	0.52
L11	2.33
L12	2.25
L13	2.48
L14	2.51
L15	0.73
Mean	2.21

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

GENOTYPE
 0.623

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	27	0.763	34.5
MEAN DM%	*		
PLOT AREA HARVESTED	0.00049		