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96/R/LP/1 Lupin Genotypes - Lupins

Rothamsted Research

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96/R/LP/1

LUPINS

LUPIN GENOTYPES

Object: To assess the overwintering survival, crop structure, yield and date of maturity of several lines of winter lupins - Appletree.

Sponsors: G.F.J. Milford, H.J. Stevenson.

Design: 3 randomised blocks of 13 plots.

Plot dimensions: 2.88 x 9.0.

Treatments:

GENOTYPE

A	Detn 02
B	Detn 12
C	Detn 15
D	Detn 17
E	Detn 19
F	Detn 20
G	Detn 34
H	Detn 37
I	Detn 83
J	Detn 102
70	CH 304/70 (duplicated)
AR	Arthur

Experimental diary:

26-Jul-95 : B : Straw removed.
02-Aug-95 : B : Ploughed and furrow pressed.
11-Sep-95 : B : Rotary harrowed. All genotypes drilled at 40 seeds per m².
14-Sep-95 : B : Stomp 400 SC at 5.0 l in 200 l, Spannit at 1.5 l in 200 l.
18-Oct-95 : B : Laser at 0.75 l with Atlas Adjuvant Oil at 1.6 l in 200 l.
29-Mar-96 : B : Atlas Simazine at 2.3 l in 200 l.
10-Jul-96 : B : Mistral at 1.0 l in 260 l.
18-Jul-96 : B : Benlate Fungicide at 1.1 kg with Pirimicarb 50 DG at 280 g and Vassgro Spreader at 78 ml in 260 l.
03-Sep-96 : B : Reglone at 3.0 l in 390 l.
11-Sep-96 : B : Combine harvested.

Previous crops: W. rape 1994, w. barley 1995.

NOTES: (1) Plant density was monitored from October to May. Plant height was measured in March and July. Main stem leaf number and date of flowering were recorded. Plant structure was assessed in June and components of yield at harvest.
(2) Because of a harvesting error, the yield of one plot with **GENOTYPE I** was lost. An estimated value was used in the analysis. **GENOTYPE AR** failed and has been omitted from the analysis.

96/R/LP/1

GRAIN TONNES/HECTARE

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

GENOTYPE

A	1.26
B	2.04
C	2.47
D	2.95
E	2.03
F	1.89
G	2.68
H	2.17
I	2.23
J	1.98
70	1.21

Mean 2.01

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

GENOTYPE

0.357 min.rep
0.309 max-min

GENOTYPE

max-min 70 v any of the remainder
min.rep Any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	22	0.437	21.8

GRAIN MEAN DM% 75.5

PLOT AREA HARVESTED 0.00130