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Yields of the Field Experiments 1998

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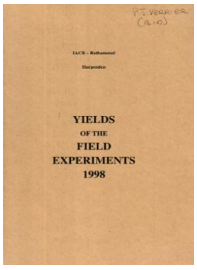

98/R/LP/1 Lupin Genotypes - Lupins

Rothamsted Research

Rothamsted Research (1999) *98/R/LP/1 Lupin Genotypes - Lupins ;* Yields Of The Field Experiments 1998, pp 166 - 169 **- DOI: https://doi.org/10.23637/ERADOC-1-52**

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98/R/LP/1

LUPINS

LUPIN GENOTYPES

Object: To assess the overwinter survival, crop structure, date of maturity and yield potential of new lines of winter lupins - Osier.

Sponsors: I.F. Shield, H.J. Stevenson.

Design: 3 blocks of 54 plots in an alpha design.

Whole plot dimensions: 2.0 x 4.5.

Treatments:

GENOTYPE	
51	G151
52	G152
53	G153
54	G154
55	G155
56	G156
57	G157
58	G158
59	G159
60	G160
61	G161
62	G162
63	G163
64	G164
65	G165
66	G166
67	G167
68	G168
69	G169
70	G170
71	G171
72	G172
73	G173
74	G174
75	G175
76	G176
77	G177
78	G178
79	G179
80	G180
81	G181
82	G182
83	G183
84	G184
85	G185
86	G186

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GENOTYPE (continued)

87	G187
88	G188
89	G189
90	G190
91	G191
92	G192
93	G193
LU	Lucyane
AG	Agena
AR	Arthur

Experimental diary:

13-Aug-97 : B : Ploughed and furrow pressed.
04-Sep-97 : B : Spannit at 1.1 l in 200 l. Rotary harrowed.
: **T** : **GENOTYPE**: Genotypes drilled at 40 seeds per m^2.
: B : Rolled.
24-Sep-97 : B : Danadim Dimethoate 40 at 850 ml in 200 l.
27-Oct-97 : B : Checkmate at 1.75 l with Atlas Adjuvant Oil at 2.0 l in 200 l.
26-Nov-97 : B : Gesatop 500 SC at 2.5 l in 200 l.
18-Feb-98 : B : Folicur at 0.5 l in 200 l.
24-Feb-98 : B : Rovral Flo at 1.0 l in 200 l.
16-Mar-98 : B : Skirmish at 1.0 l in 200 l.
02-Apr-98 : B : Danadim Dimethoate 40 at 850 ml in 200 l.
20-May-98 : B : Folicur at 0.5 l in 200 l. Aphox at 280 g in 200 l.
12-Jun-98 : B : Alto 240 EC at 0.33 l with Bravo 500 at 1.5 l in 200 l.
20-Sep-98 : B : Combine harvested.

Previous crops: Industrial rape 1996, w. barley 1997.

NOTES: (1) Plant populations were assessed on five occasions. Apical dissections were made from October to March. Date of flowering and final main stem leaf numbers were noted. Plant heights were measured in February and August and in September the amount of lodging.

(2) Seed was severely infected with bean yellow mosaic virus which spread to most plants.

(3) The experiment was analysed as an alpha design and as a randomised block design. There was no appreciable difference and the randomised block design is presented.

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GRAIN TONNES/HECTARE

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

GENOTYPE	
51	0.40
52	0.40
53	1.33
54	0.46
55	0.91
56	0.80
57	0.70
58	0.84
59	0.67
60	0.55
61	0.68
62	0.56
63	1.01
64	1.10
65	0.32
66	0.85
67	1.43
68	0.59
69	0.67
70	0.54
71	0.41
72	0.67
73	0.42
74	0.76
75	0.76
76	0.66
77	0.71
78	0.24
79	0.25
80	2.07
81	1.15
82	0.62
83	0.35
84	0.44
85	0.47
86	1.34
87	0.81
88	1.59
89	1.34
90	0.73
91	0.94
92	0.73
93	0.47
LU	1.10
AG	2.12
AR	1.30
Mean	0.85

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98/R/LP/1

GRAIN TONNES/HECTARE

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

GENOTYPE
0.315 min.rep
0.235 max-min

GENOTYPE
min.rep
max-min

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	114	0.385	45.2

GRAIN MEAN DM% 72.5

PLOT AREA HARVESTED 0.00084

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