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Yields of the Field Experiments 1999

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99/R/LP/1 Lupin Genotypes - Lupins

Rothamsted Research

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99/R/BES/2

Experimental diary:

22-Jun-99 : B : : tm)Folio 575 SC at 2.0 l in 200 l.
 : B : : tm)Hallmark at 150 ml in 200 l.
 23-Jun-99 : T : I : Irrigated, 22 mm.
 13-Jul-99 : T : I : Irrigated, 17 mm.
 02-Aug-99 : T : I : Irrigated, 15 mm.
 23-Aug-99 : B : : Hand harvested.

Previous crops: S. beans and w. beans 1997, w. wheat 1998.

NOTE: The yield of one plot **IRRIGATN U WEEDS** - was treated as missing, due to heavy charlock infestation and poor development of crop. An estimated value was used in the analysis.

GRAIN TONNES/HECTARE

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

	WEEDS	-	M1	M2	O1	O2	M1L	M2L	Mean
IRRIGATN									
U	5.21		1.55	1.41	2.32	1.50	2.81	3.85	2.66
I	6.22		3.44	1.64	3.40	2.36	4.75	3.26	3.58
Mean	5.72		2.50	1.52	2.86	1.93	3.78	3.55	3.12

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

IRRIGATN	WEEDS	IRRIGATN WEEDS
0.268	0.501	0.708

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	25	0.867	27.8

GRAIN MEAN DM% *

PLOT AREA HARVESTED 0.00010

99/R/LP/1

LUPINS

LUPIN GENOTYPES

Object: To assess the overwinter survival, crop structure, yield potential and maturity date of forty six lines of winter lupins.- Bones Close.

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

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

Whole plot dimensions: 2.0 x 5.0.

Treatments:

GENOTYPE

1 to 44	44 different genotypes
AG	Agena
LU	Lucyane (tr. Germipro)

Experimental diary:

29-Aug-98	: B :	: Ploughed and furrow pressed, started.
30-Aug-98	: B :	: Ploughed and furrow pressed, completed.
25-Sep-98	: T :	: Rotary harrowed. All genotypes drilled at 40 seeds/m ² with the Oyjord drill.
29-Jan-99	: B :	: Spannit at 1.5 l in 200 l.
	: B :	: tm)Carbetamex at 3.0 kg in 200 l.
	: B :	: tm)Stomp 400 SC at 5.0 l in 200 l.
16-Mar-99	: B :	: Alpha Simazine 50 SC at 2.3 l in 200 l.
17-Mar-99	: B :	: tm)Folicur at 0.5 l in 200 l.
	: B :	: tm)Rovral Flo at 1.0 l in 200 l.
15-Apr-99	: B :	: Lo-Gran 20 WG at 18.75 g in 200 l.
18-Jun-99	: B :	: Alto 240 EC at 0.33 l in 200 l.
	: B :	: tm)Aphox at 280 g in 200 l.
	: B :	: tm)Enhance at 50 ml in 200 l.
23-Aug-99	: B :	: Hand harvested genotypes; 3, 9, 12, 19, 20, 21, 35, 41, 43, AG, LU.
31-Aug-99	: B :	: Hand harvested genotypes: 1, 5, 6, 13, 14, 15, 25, 26, 30, 34, 40, 42, 44.
09-Sep-99	: B :	: Hand harvested genotypes: 2, 4, 7, 8, 10, 11, 16, 17, 18, 22, 23, 24, 27, 28, 29, 31, 32, 33, 36, 37, 38, 39.

Previous crops: W. rape 1997, w. rye, s. wheat and w. wheat 1998.

99/R/LP/1

GRAIN TONNES/HECTARE

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

GENOTYPE	
1	4.09
2	4.85
3	3.71
4	5.38
5	4.26
6	4.44
7	4.04
8	3.57
9	1.72
10	4.31
11	3.34
12	2.67
13	4.33
14	3.19
15	1.57
16	2.85
17	3.13
18	2.73
19	1.54
20	3.36
21	2.49
22	4.41
23	3.13
24	2.75
25	2.78
26	2.06
27	4.55
28	3.36
29	4.15
30	1.99
31	4.32
32	4.01
33	4.43
34	2.13
35	3.48
36	4.53
37	3.80
38	2.42
39	3.25
40	3.46
41	4.40
42	4.83
43	3.37
44	5.45
AG	3.26
LU	2.89
Mean	3.41