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99/R/LP/4 Genotype Evaluation - Lupins

Rothamsted Research

Rothamsted Research (2000) *99/R/LP/4 Genotype Evaluation - Lupins* ; Yields Of The Field Experiments 1999, pp 163 - 164 - DOI: <https://doi.org/10.23637/ERADOC-1-34>

99/R/LP/3

Experimental diary:

18-Jun-99 : B : : tm)Aphox at 280 g in 200 l.
 : B : : tm)Enhance at 50 ml in 200 l.
 23-Jun-99 : T : I : Irrigated 24 mm, one half block (plots 19-24) flooded
 due to burst pipe.
 30-Jun-99 : T : : tm)Corbel at 0.2 l in 220 l, all except E plots.
 : T : : tm)Opus at 1.0 l in 220 l, all except E plots.
 : T : E : Mantra at 1.0 l in 220 l.
 02-Jul-99 : T : FN : 46% N at 240 kg.
 13-Jul-99 : T : I : Irrigated 15 mm.
 16-Jul-99 : T : I : Irrigated 25 mm.
 19-Jul-99 : T : I : Irrigated 8 mm.
 26-Aug-99 : B : : Combine harvested.

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

GRAIN TONNES/HECTARE

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

N STRUCT IRRIGATN	-	SN	FN	E	Mean
O	2.39	2.79	2.92	2.99	2.64
I	2.36	2.68	2.46	2.64	2.48
Mean	2.38	2.73	2.69	2.82	2.56

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

N STRUCT	IRRIGATN*	N STRUCT
0.182	0.257	min.rep
0.148	0.210	max-min

* Within the same level of IRRIGATN only

N STRUCT
 min.rep -
 max-min - v any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.257	10.0
GRAIN MEAN DM%	64.6		
PLOT AREA HARVESTED	0.00207		

99/R/LP/4

LUPINS

GENOTYPE EVALUATION

Object: To test further the best new dwarf determinate genotypes - Bones Close.

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

Design: 3 blocks of 14 plots.

Whole plot dimensions: 2.0 x 5.5.

Treatments:

GENOTYPE

01	DTN108
02	DTN19A
03	DTN19B
04	DTN78
05	DTN01
06	DTN11
07	DTN31
08	DTN84
09	DTN10
10	DTN04
11	CH304-73
12	DTN12
13	DTN20
14	CH304-70

Experimental diary:

29-Aug-98 : B : : Ploughed and pressed.
17-Sep-98 : B : : Rotary harrowed.
: T : : Genotypes drilled at 40 seeds/m² with the Oyjord drill.
: B : : Spannit at 1.5 l in 200 l.
29-Jan-99 : 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 : : Aplha 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.
26-Aug-99 : T : : Combine harvested, genotypes 6, 11 & 14. Chopped
straw.
27-Aug-99 : T : : Combine harvested all remaining genotypes. Chopped
straw

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