

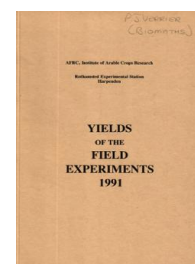
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91/R/L/P/3 Seed Rates - W. Lupins

Rothamsted Research

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91/R/LP/3

WINTER LUPINS

SEED RATES

Object: To study the effects of plant density on the growth, development, maturity date and yield of w. lupins - Long Hoos III 2.

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

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 3.6 x 9.0.

Treatments:

POPULATN Plant populations per square metre in rows 36 cm apart:

7
14
21
28
35 (duplicated)

NOTE: The final populations were established in spring by hand thinning from larger sown populations - 35 and 70 seeds per square metre.

Basal applications: Manures: Muriate of potash at 520 kg. Weedkillers: Terbutylazine at 0.42 kg and terbutryn at 0.98 kg in 200 l. Fluazifop-P-butyl at 0.19 kg applied with a wetting agent, 'Vassgro' at 0.2 l, in 220 l. Fungicide: Prochloraz at 0.45 kg applied with the insecticide in 200 l. Insecticide: Pirimicarb at 0.14 kg.

Seed: Lunoble, inoculated with Rhizobium, at two seed rates.

Cultivations, etc.:- Deep-tine cultivated with vibrating tines 60 cm apart and 45 cm deep: 13 Sept, 1990. K applied: 14 Sept. Ploughed and furrow pressed: 17 Sept. Cultivated with rotary grubber, harrowed, seed sown: 24 Sept. Rolled, terbutylazine and terbutryn applied: 27 Sept. Fluazifop-P-butyl applied: 13 Dec. Fungicide and insecticide applied: 22 July, 1991. Combine harvested: 22 Oct.

NOTES: (1) The crop was netted against birds and mammals from sowing to mid-June.
(2) It was originally intended to have populations of 42 and 56 plants per square netre, but establishment was poor and these became **POPULATN** 35. In two blocks the target population of 35 was not achieved, and consequently 4 plots were treated as missing. Estimated values were used in the analysis.

91/R/LE/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

POPULATN

7	1.42
14	1.43
21	1.45
28	1.32
35	1.55

Mean 1.45

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

POPULATN

0.154 min.rep
0.134 max-min

POPULATN

max-min 35 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	12	0.218	15.0
GRAIN MEAN DM%	73.1		
AVERAGE PLOT AREA HARVESTED	0.00184		