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91/R/LP/2 Pruning Study - W. Lupins

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91/R/LP/2

WINTER LUPINS

PRUNING STUDY

Object: To study the effects of different amounts of manual pruning on the maturity date and yield of indeterminate varieties for comparison with a genetically determinate variety - Long Hoos V 4.

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

Design: 4 randomised blocks of 8 plots.

Whole plot dimensions: 1.8 x 9.0.

Treatments:

VAR PRUN	Varieties and pruning:
SDL 1 U	SDL 1, unpruned
LUGEL U	Lugel, unpruned
LG SI E	Lugel, secondary branches and inflorescences removed early on 20 May, 1991
LG SI L	Lugel, secondary branches and inflorescences removed late on 3 June
LG T	Lugel, tertiary branches removed on 5 June
LUNOBL U	Lunoble, unpruned
LN SI E	Lunoble, secondary branches and inflorescences removed early on 20 May
LN T	Lunoble, tertiary branches removed on 5 June

Basal applications: Manures: (0:16:36) at 1.1 t. 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 0.22 l, in 220 l. Fungicides: Chlorothalonil at 1.5 kg with benomyl at 0.55 kg in 200 l. Prochloraz at 0.45 kg in 200 l. Insecticide: Pirimicarb at 0.14 kg in 200 l.

Seed: Varieties, inoculated with Rhizobium, sown at 60 seeds per square metre.

Cultivations, etc.:- P and K applied: 3 Sept, 1990. Ploughed and rolled: 11 Sept. Cultivated with rotary grubber, rotary harrowed, seed sown: 25 Sept. Rolled, terbutylazine and terbutryn applied: 27 Sept. Fluazifop-P-butyl with wetting agent applied: 13 Dec. Insecticide applied: 2 July, 1991. Chlorothalonil and benomyl applied: 10 July. Prochloraz applied: 22 July. Hand harvested: 10 Sept (LG SI E, LG SI L, LN SI E), 19 Sept (SDL 1 U, LG T, LN T) and 14 Oct (LUGEL U, LUNOBL U).

91/R/LP/2

- NOTES: (1) The crop was netted against birds and mammals from sowing to mid-June.
(2) Leaf numbers, flower and pod development were monitored. Dry matter was measured in May and July.
(3) Measurements of light interception by the crop were made in spring and summer.
(4) Because of the shortage of seed, the yield of one plot of SDL 1 U was lost. Estimated values were used in the analysis.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

VAR PRUN	
SDL 1 U	4.59
LUGEL U	1.41
LG SI E	0.08
LG SI L	0.18
LG T	1.66
LUNOBL U	2.24
LN SI E	0.37
LN T	2.68
Mean	1.65

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

VAR PRUN
0.301

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	20	0.426	25.8

GRAIN MEAN DM% *

PLOT AREA HARVESTED 0.00065