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89/R/LP/2 Vernalization Study - S. Lupins

Rothamsted Research

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89/R/LP/2

SPRING LUPINS

VERNALIZATION STUDY

Object: To study the effects of a range of periods of vernalization on the growth, date of maturity and yield of two varieties of lupins (*Lupinus albus*) - Long Hoos IV O & E S.W.

Sponsors: G.F.J. Milford, L.A. Mullen, D.P. Yeoman.

Design: A single replicate of 28 plots.

Whole plot dimensions: 1.5 x 2.0.

Treatments: All combinations of:-

1. **SOWDATE** Dates of sowing:

8 MARCH
29 MARCH

2. **VARIETY** Varieties:

C8
VLADIMIR

3. **VERNTIME** Period of vernalization at 1 degree C:

NONE
1 WEEK
2 WEEKS
3 WEEKS
4 WEEKS
5 WEEKS
6 WEEKS

Basal applications: Manures: (0:18:36) at 1080 kg. Magnesian limestone at 2.6 t. Weedkillers: Glyphosate at 0.72 kg in 220 l. Paraquat at 0.54 kg ion in 220 l. Terbutryne at 0.98 kg and terbuthylazine at 0.42 kg in 220 l. Insecticides: Deltamethrin at 7.5 g in 220 l. Pirimicarb at 0.14 kg in 220 l. Molluscicides: Methiocarb at 0.40 kg applied twice. Metaldehyde at 0.94 kg.

Cultivations, etc.:- Glyphosate applied: 13 Oct, 1988. PK applied: 26 Oct. Paraquat applied: 24 Nov. Magnesian limestone applied: 30 Nov. Ploughed: 8 Dec. Rotary cultivated, first sowing date seed sown, methiocarb applied: 8 Mar, 1989. Terbutryne and terbuthylazine applied to first sowing, methiocarb applied: 15 Mar. Rotary cultivated, second sowing date seed sown, rolled: 29 Mar. Terbutryne and terbuthylazine applied to second sowing: 30 Mar. Metaldehyde applied: 31 Mar. Deltamethrin applied: 9 May. Pirimicarb applied: 5 July. Hand harvested: 20 Sept. Previous crops: S.barley 1987 and 1988.

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NOTES: (1) All plots sown with **VARIETY** VLADIMIR failed and only the results from **VARIETY** C8 are presented.
(2) Grain mean dry matter percentages are not available.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

| SOW DATE | 8 MARCH | 29 MARCH | Mean |
|-----------------|---------|----------|------|
| VERTIME | | | |
| NONE | 0.80 | 0.93 | 0.86 |
| 1 WEEK | 0.42 | 0.59 | 0.51 |
| 2 WEEKS | 0.09 | 0.92 | 0.51 |
| 3 WEEKS | 0.81 | 1.14 | 0.97 |
| 4 WEEKS | 0.53 | 0.85 | 0.69 |
| 5 WEEKS | 0.88 | 1.29 | 1.08 |
| 6 WEEKS | 0.21 | 1.14 | 0.67 |
| Mean | 0.53 | 0.98 | 0.76 |

PLOT AREA HARVESTED 0.00030