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ROTHAMSTED RESEARCH

Yields of the Field Experiments 1988

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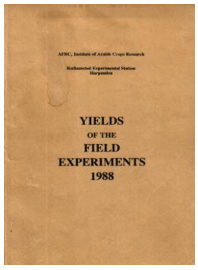

88/R/LP/1 Varieties, Sowing Dates and Seed Dressings - W. Lupins

Rothamsted Research

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88/R/LP/1

WINTER LUPINS

VARIETIES, SOWING DATES AND SEED DRESSINGS

Object: To compare three varieties of lupin (Lupinus albus) sown at two sowing dates with and without a seed dressing - Long Hoos V 6.

Sponsors: J. McEwen, H.L. Jones, D.P. Yeoman, A.W. Ferguson, J.F. Jenkyn.

Design: 2 randomised blocks of 12 plots.

Whole plot dimensions: 1.8 x 9.0.

Treatments: All combinations of:-

Whole plots

1. **VARIETY**	Varieties:
LUCKY	Lucky
VLADIMIR	Vladimir
2. **SOW DATE**	Dates of sowing:
26 OCT	26 October, 1987
3 DEC	3 December
3. **SEEDRESS**	Seed dressing:
NONE	None
FO+CA+TH	Fosetyl-aluminium, captan and thiabendazole

plus three extra treatments

C8 EXTRA	All variety C8:
C8FSE	Sown 26 Oct seed dressed with fosetyl-aluminium, captan and thiabendazole (duplicated)
C8FSL	Sown 3 Dec seed dressed with fosetyl-aluminium, captan and thiabendazole
C8SL	Sown 3 Dec, no seed dressing

Basal applications: Manures: (0:18:36) at 1040 kg. Chalk at 2.9 t. Weedkillers: Paraquat at 0.80 kg ion in 220 l. Monolinuron at 0.46 kg and paraquat at 0.33 kg ion in 220 l. Fungicides: Benomyl at 0.50 kg in 220 l applied with the deltamethrin. Chlorothalonil at 1.0 kg with benomyl at 0.50 kg in 220 l applied with the pirimicarb. Insecticides: Deltamethrin at 0.075 kg. Pirimicarb at 0.14 kg.

Seed: Sown at 200 kg.

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88/R/LP/1

Cultivations, etc: PK applied: 30 Sept, 1987. Chalk applied: 2 Oct. Paraquat applied: 5 Oct. Monolinuron and paraquat applied after each sowing: 30 Oct, 8 Dec respectively. Benomyl and deltamethrin applied: 25 May, 1988. Chlorothalonil, benomyl and pirimicarb applied: 18 July. Combine harvested VLADIMIR: 14 Oct. Hand harvested LUCKY: 19 Oct. Stationary threshed LUCKY: 27 Oct. Hand harvested C8: 9 and 12 Dec. Stationary threshed C8: 12 and 13 Dec. Previous crops: Lupins 1986, fallow 1987.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SEEDRESS	NONE	FO+CA+TH	Mean
VARIETY			
LUCKY	0.89	0.73	0.81
VLADIMIR	0.05	0.03	0.04
Mean	0.47	0.38	0.42

SOW DATE	26 OCT	3 DEC	Mean
VARIETY			
LUCKY	1.16	0.46	0.81
VLADIMIR	0.06	0.02	0.04
Mean	0.61	0.24	0.42

SOW DATE	26 OCT	3 DEC	Mean
SEEDRESS			
NONE	0.67	0.27	0.47
FO+CA+TH	0.55	0.21	0.38
Mean	0.61	0.24	0.42

	SOW DATE	26 OCT	3 DEC
VARIETY	**SEEDRESS**		
LUCKY	NONE	1.27	0.51
	FO+CA+TH	1.05	0.41
VLADIMIR	NONE	0.07	0.03
	FO+CA+TH	0.06	0.00

C8 EXTRA	C8FSE	C8FSL	C8SL	Mean
	2.12	1.98	2.18	2.10

GRAND MEAN 0.98

MEAN DM% 60.0

PLOT AREA HARVESTED **C8 EXTRA** 0.00065

PLOT AREA HARVESTED OTHER VARIETIES 0.00162

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