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ROTHAMSTED RESEARCH

Yields of the Field Experiments 1989

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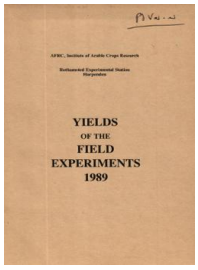

89/R/LP/1 Varieties, Sowing Dates and Seed Dressings - W. Lupins

Rothamsted Research

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89/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 III 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:
	C 8	C 8
	LUCKY	Lucky
	VLADIMIR	Vladimir
2.	**SOW DATE**	Dates of sowing:
	21 SEPT	21 September, 1988
	2 NOV	2 November
3.	**FUNGCIDE**	Fungicides:
	NONE	None
	F+C+T+B	Fosetyl-aluminium, captan and thiabendazole, to seed plus benomyl at 0.50 kg and chlorothalonil at 1.0 kg applied in 220 l on 15 Mar, 1989

NOTE: Plots were netted from October to May.

Basal applications: Manure: Muriate of potash at 520 kg. Weedkillers: Terbutryne at 0.98 kg and terbuthylazine at 0.42 kg in 220 l repeated at 0.49 kg and 0.21 kg respectively in 220 l to first sowing only. Metamitron at 2.8 kg applied with the benomyl, chlorothalonil and pirimicarb in 220 l. Fungicides: Benomyl at 0.50 kg with chlorothalonil at 1.0 kg. Benomyl at 0.56 kg applied with pirimicarb in 220 l. Insecticides: Pirimicarb at 0.14 kg on two occasions. Deltamethrin at 7.5 g in 220 l. Molluscicides: Methiocarb at 0.60 kg to first sowing and at 0.27 kg to second sowing. Metaldehyde at 0.94 kg.

Seed: Sown at 60 seeds per square metre.

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Cultivations, etc.:- Ploughed: 7 June, 1988. Rotary cultivated: 5 Aug. K applied: 15 Sept. Rotary harrowed, first sowing date seed sown: 21 Sept. Terbutryne and terbuthylazine applied: 29 and 30 Sept to first sowing only. Methiocarb applied to first sowing: 26 Oct. Second sowing date seed sown, terbutryne and terbuthylazine applied and methiocarb applied: 2 Nov. Metaldehyde applied: 15 Mar, 1989. Metamitron, benomyl, chlorothalonil and pirimicarb applied: 28 Apr. Deltamethrin applied: 9 May. Pirimicarb and benomyl applied: 9 June. Combine harvested: 23 Aug. Previous crops : Potatoes 1987, fallow 1988.

NOTE: All plots sown with **VARIETY** VLADIMIR failed and have been omitted from the analysis.

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89/R/LP/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCIDE	NONE	F+C+T+B	Mean
VARIETY			
C 8	2.10	1.31	1.71
LUCKY	2.08	1.75	1.91
Mean	2.09	1.53	1.81

SOW DATE	21 SEPT	2 NOV	Mean
VARIETY			
C 8	1.82	1.59	1.71
LUCKY	1.76	2.07	1.91
Mean	1.79	1.83	1.81

SOW DATE	21 SEPT	2 NOV	Mean
FUNGCIDE			
NONE	2.21	1.98	2.09
F+C+T+B	1.37	1.68	1.53
Mean	1.79	1.83	1.81

	SOW DATE	21 SEPT	2 NOV
VARIETY	**FUNGCIDE**		
C 8	NONE	2.29	1.92
	F+C+T+B	1.36	1.27
LUCKY	NONE	2.13	2.04
	F+C+T+B	1.39	2.10

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

VARIETY	**FUNGCIDE**	**SOW DATE**	**VARIETY FUNGCIDE**
0.202	0.202	0.202	0.286

VARIETY SOW DATE	**FUNGCIDE SOW DATE**	**VARIETY FUNGCIDE SOW DATE**
0.286	0.286	0.404

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	7	0.404	22.3

GRAIN MEAN DM% 87.7

PLOT AREA HARVESTED 0.00162

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