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Yields of the Field Experiments 1986

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86/W/LP/2 Varieties, Sowing Dates and Plant Health - Lupins

Rothamsted Research

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86/W/LP/2

3. PATHCON(2) Pest and pathogen control:

NONE	None
FULL	Insecticides: Deltamethrin at 0.0075 kg in 220 l: 16 May, 1986, 5 June, pirimicarb at 0.14 kg on three occasions, on the second with a wetting agent ('Citowett' at 0.13 l and at 0.014 l respectively) in 220 l: 16 July, 22 July, 8 Aug. Fungicide: Benomyl at 0.56 kg in 220 l: 10 July.

- NOTES: (1) The tests of 2-chloroethylphosphonic acid were made on plots intended for two sowing dates comparing the two varieties. The earlier sowing date was prevented by bad weather, the comparison of varieties on these dates by the late arrival of Vladimir.
- (2) A companion experiment sown at Rothamsted was destroyed by pigeons.

Basal applications: Weedkillers: Monolinuron at 0.77 kg with paraquat at 0.55 kg ion in 220 l; met amitron at 2.8 kg in 220 l. Desiccant: Diquat at 0.60 kg ion in 220 l.

Seed: Varieties sown at 250 kg.

Cultivations, etc.: - Ploughed: 23 Dec, 1985. Monolinuron with paraquat applied to K E GR E and L: 26 Mar, 1986, to SOW DATE 1 MAY: 1 May. Met amitron applied to K E GR E and L and SOW DATE 1 MAY: 5 June, to SOW DATE 22 MAY: 27 June. Desiccant applied to K E GR E and L: 26 Sept, SOW DATE 1 MAY: 24 Oct. Combine harvested: K E GR E and L: 9 Oct, SOW DATE 1 MAY: 12 Nov, SOW DATE 22 MAY: 12 Dec. Previous crops: Potatoes 1984, w. oats 1985.

- NOTES: (1) Establishment counts were made at the four-leaf stage.
- (2) Detailed observations were made during the season on pests and diseases.
- (3) Dates of flowering and maturity were recorded and components of yield were measured.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** TABLES OF MEANS *****

K E GR L	NONE	2 CHLORO	MEAN
K E GR E			
NONE	1.28	1.07	1.17
2 CHLORO	1.23	0.87	1.05
MEAN	1.26	0.97	1.11
PATHCON(1)	NONE	FULL	MEAN
K E GR E			
NONE	1.23	1.12	1.17
2 CHLORO	0.85	1.25	1.05
MEAN	1.04	1.19	1.11

86/W/LP/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** TABLES OF MEANS *****

PATHCON(1)	NONE	FULL	MEAN
K E GR L			
NONE	1.10	1.41	1.26
2 CHLORO	0.98	0.96	0.97
MEAN	1.04	1.19	1.11
	PATHCON(1)	NONE	FULL
K E GR E	K E GR L		
NONE	NONE	1.45	1.12
2 CHLORO	2 CHLORO	1.01	1.13
	NONE	0.75	1.71
	2 CHLORO	0.95	0.79
SOW DATE	1 MAY	29 MAY	MEAN
VARIETY			
KALINA	2.21	1.53	1.87
VLADIMIR	2.05	0.99	1.52
MEAN	2.13	1.26	1.69
PATHCON(2)	NONE	FULL	MEAN
VARIETY			
KALINA	1.90	1.83	1.87
VLADIMIR	1.43	1.61	1.52
MEAN	1.67	1.72	1.69
PATHCON(2)	NONE	FULL	MEAN
SOW DATE			
1 MAY	2.01	2.24	2.13
29 MAY	1.32	1.20	1.26
MEAN	1.67	1.72	1.69
	PATHCON(2)	NONE	FULL
VARIETY	SOW DATE		
KALINA	1 MAY	2.15	2.26
	29 MAY	1.66	1.40
VLADIMIR	1 MAY	1.88	2.22
	29 MAY	0.99	0.99
GRAND MEAN	1.40		

86/W/LP/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	K E GR E	K E GR L	PATHCON(1)	VARIETY
SED	0.174	0.174	0.174	0.174

TABLE	SOW DATE	PATHCON(2)	K E GR E K E GR L	K E GR E PATHCON(1)
SED	0.174	0.174	0.247	0.247

TABLE	K E GR L PATHCON(1)	VARIETY SOW DATE	VARIETY PATHCON(2)	SOW DATE PATHCON(2)
SED	0.247	0.247	0.247	0.247

TABLE	K E GR E K E GR L PATHCON(1)	VARIETY SOW DATE PATHCON(2)
SED	0.349	0.349

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	30	0.427	30.5

GRAIN MEAN DM% 51.2

PLOT AREA HARVESTED 0.00086