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ROTHAMSTED  
RESEARCH

# Yields of the Field Experiments 1985

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## 85/R/LP/2 Desiccants - Lupins

### Rothamsted Research

Rothamsted Research (1986) *85/R/LP/2 Desiccants - Lupins* ; Yields Of The Field Experiments 1985, pp 283 - 284 - DOI: <https://doi.org/10.23637/ERADOC-1-19>

85/R/LP/2

LUPINS

DESICCANTS

Object: To study the effects of forms, rates and times of applying desiccants on grain quality and yield of lupins - Long Hoos III 6.

Sponsor: H.L. Jones.

Design: 2 randomised blocks of 14 plots.

Whole plot dimensions: 2.4 x 6.0.

Treatments: All combinations of:-

1. DESICCANT            Forms and rates of desiccants:

DIQUAT 1	Diquat at 0.15 kg ion
DIQUAT 4	Diquat at 0.60 kg ion
NACL 1	Sodium chloride at 6.25 kg
NACL 4	Sodium chloride at 25 kg
GLYPHOS	Glyphosate at 1.1 kg
METAMIT	Metamitron at 2.8 kg

2. DES DATE            Dates of applying desiccants:

4 SEPT	4 Sept, 1985
20 SEPT	20 Sept

plus two extra treatments:

EXTRA

NONE	No desiccant applied
UREA L	Urea at 50 kg on 20 Sept

NOTE: Treatment sprays were applied in 220 l water.

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg. Weedkillers: Glyphosate at 1.4 kg in 220 l; monolinuron at 0.75 kg with paraquat at 0.55 kg ion in 220 l; metamitron at 2.8 kg in 220 l. Fungicide: Benomyl at 0.56 kg in 220 l.

Seed: Vladimir, dressed drazoxolon, sown at 250 kg.

Cultivations, etc.: - Chalk applied: 12 Sept, 1984. Muriate of potash applied: 25 Sept. Glyphosate applied: 26 Sept. Ploughed: 28 Nov. Spring-tine cultivated, seed sown: 2 Apr, 1985. Paraquat and monolinuron applied: 9 Apr. Metamitron applied: 31 May. Fungicide applied: 28 June. Combine harvested: 17 Oct. Previous crops: Sugar beet 1983, s. barley 1984.

NOTE: Observations were made from mid-August on lodging, leaf and pod senescence, stem and pod diseases, plant population, pod numbers per plant, dry matter, shed seed, germinability of seed and seed appearance.

85/R/LP/2

GRAIN TONNES/HECTARE

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

DES DATE	4 SEPT	20 SEPT	MEAN
DESICCNT			
DIQUAT 1	3.62	4.28	3.95
DIQUAT 4	3.06	4.01	3.54
NACL 1	3.78	4.14	3.96
NACL 4	3.92	4.04	3.98
GLYPHOS	4.06	3.88	3.97
METAMIT	3.74	4.07	3.90
MEAN	3.70	4.07	3.88

EXTRA	NONE	UREA L	MEAN
	4.08	3.72	3.90

GRAND MEAN 3.89

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

TABLE	EXTRA	DESICCNT	DES DATE	DESICCNT DES DATE
-----				
SED	0.245	0.173	0.100	0.245

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

STRATUM	DF	SE	CV%
BLOCK.WP	13	0.245	6.3

GRAIN MEAN DM% 67.6

PLOT AREA HARVESTED 0.00086