

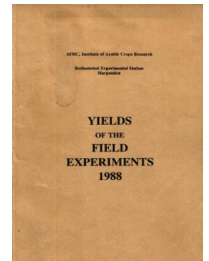
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1988

[Full Table of Content](#)



88/R/LP/3 Desiccants and Fungicides - Lupins

Rothamsted Research

Rothamsted Research (1989) *88/R/LP/3 Desiccants and Fungicides - Lupins* ; Yields Of The Field Experiments 1988, pp 206 - 208 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

88/R/LP/3

LUPINS

DESICCANTS AND FUNGICIDES

Object: To study the effects of times of applying desiccants and fungicides on senescence, grain quality and yield of lupins (*Lupinus albus*) - Long Hoos III 5.

Sponsors: H.L. Jones, J. Lacey.

Design: 2 randomised blocks of 30 plots.

Whole plot dimensions: 2.4 x 5.0.

Treatments: All combinations of:-

1. **DESICCANT** Desiccants:

DIQUAT	Diquat at 0.15 kg ion
MET+FEN	Metoxuron at 2.0 kg plus fentin hydroxide at 0.20 kg
GLYPHOS	Glyphosate at 1.08 kg
NACL	Sodium chloride at 6.25 kg
2. **FUNGICIDE** Fungicide applied 10 days before desiccant (29 Sept, 1988, 10 Oct, 20 Oct):

NONE	None
PROPICON	Propiconazole at 0.125 kg
3. **APP TIME** Times of applying desiccants:

EARLY	When leaf fall complete (10 Oct)
MIDDLE	10 days after EARLY (20 Oct)
LATE	18 days after EARLY (28 Oct)

plus an extra treatment given no desiccants or fungicides:

EXTRA

NONE	None (septuplicated)
------	----------------------

NOTES: (1) All spray treatments were applied in 220 l.
(2) Additional planned treatments with fungicides alone were omitted.

Basal applications: Manure: Chalk at 2.9 t. Weedkillers: Terbutryne at 0.98 kg and terbuthylazine at 0.42 kg in 220 l. Metamitron at 1.4 kg in 220 l applied with the benomyl and pirimicarb. Fungicides: Benomyl at 0.56 kg when applied with the metamitron and the first pirimicarb and at 1.0 kg applied with chlorothalonil at 1.0 kg in 220 l applied with the second pirimicarb. Insecticide: Pirimicarb at 0.14 kg applied on two occasions.

Seed: Vladimir, sown at 210 kg.

88/R/LP/3

Cultivations, etc.:- Chalk applied: 1 Oct, 1987. Ploughed: 11 Dec.
 Spring-tine cultivated twice, seed sown, rolled: 11 Mar, 1988.
 Terbutryne and terbuthylazine applied: 17 Mar. Metamitron, benomyl
 and pirimicarb applied: 20 June. Chlorothalonil, benomyl and
 pirimicarb applied: 15 July. Combine harvested: 4 Nov. Previous
 crops: Cabbages 1986, fallow 1987.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCIDE	NONE	PROPICON	Mean	
DESICCNT				
DIQUAT	1.80	1.72	1.76	
MET+FEN	1.85	1.92	1.88	
GLYPHOS	1.80	1.80	1.80	
NACL	1.87	1.99	1.93	
Mean	1.83	1.86	1.84	
APP TIME	EARLY	MIDDLE	LATE	Mean
DESICCNT				
DIQUAT	2.04	1.89	1.36	1.76
MET+FEN	1.97	1.94	1.74	1.88
GLYPHOS	1.70	1.74	1.95	1.80
NACL	1.70	2.07	2.03	1.93
Mean	1.85	1.91	1.77	1.84
APP TIME	EARLY	MIDDLE	LATE	Mean
FUNGCIDE				
NONE	1.89	1.78	1.82	1.83
PROPICON	1.82	2.04	1.71	1.86
Mean	1.85	1.91	1.77	1.84
DESICCNT	APP TIME	EARLY	MIDDLE	LATE
	FUNGCIDE			
DIQUAT	NONE	2.03	1.79	1.58
	PROPICON	2.05	1.98	1.13
MET+FEN	NONE	1.72	1.82	2.02
	PROPICON	2.23	2.06	1.47
GLYPHOS	NONE	1.92	1.53	1.94
	PROPICON	1.48	1.96	1.96
NACL	NONE	1.88	1.99	1.75
	PROPICON	1.52	2.14	2.30
EXTRA NONE		1.77		
Grand mean		1.83		

88/R/LP/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

DESICCNT	FUNGCIDE	APP TIME	DESICCNT FUNGCIDE
0.188	0.133	0.163	0.266
DESICCNT APP TIME	FUNGCIDE APP TIME	DESICCNT FUNGCIDE APP TIME	
0.326	0.231	0.461	

SED for comparing NONE with any item in
DESICCNT.FUNGCIDE.APP TIME table is 0.352

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	34	0.461	25.2
GRAIN MEAN DM%	78.2		
PLOT AREA HARVESTED	0.00072		