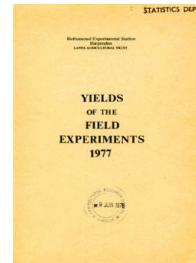


Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1977

[Full Table of Content](#)



77/R/LP/2 Seed Rates, Row Spacing and Pathogen Control - Lupins

Rothamsted Research

Rothamsted Research (1978) 77/R/LP/2 *Seed Rates, Row Spacing and Pathogen Control - Lupins* ;

Yields Of The Field Experiments 1977, pp 389 - 390 - DOI:

<https://doi.org/10.23637/ERADOC-1-29>

77/R/LP/2

LUPINS

SEED RATES, ROW SPACING AND PATHOGEN CONTROL

Object: To study the effects of seed rates, row spacing and pathogen control on yields and incidence of pests and diseases - Long Hoos VI/VII 1.

Sponsors: J.C. Wilson, G.A. Salt, A.J. Cockbain.

Design: 2 randomised blocks of 3 x 3 x 2.

Whole plot dimensions: 3.05 x 7.62.

Treatments: All combinations of:-

1. SEEDRATE Seed Rates (kg):

120
240
360

2. ROW SPAC Spacing between rows:

13 CM 13 cm (5 inches)
25 CM 25 cm (10 inches)
38 CM 38 cm (15 inches)

3. PATHCONT Pathogen control:

NONE	None
FULL	Aldicarb at 10 kg + benomyl at 32 kg to seedbed + foliar spray of fenitrothion at 0.7 kg in 340 l applied on 1 June.

Basal applications: Manures: (0:14:28) at 880 kg. Weedkiller: Trifluralin at 0.9 kg in 340 l.

Seed: Kievsky.

Cultivations, etc.: PK applied: 9 Nov, 1976. Ploughed: 15 Dec, 18 Jan, 1977. Weedkiller applied, power harrowed: 6 Apr. Aldicarb applied to PATHCONT FULL plots, all plots power harrowed: 7 Apr. Benlate applied to PATHCONT FULL plots, all plots power harrowed: 15 Apr. Seed sown: 21 Apr. Combine harvested: 8 Nov. Previous crops: Potatoes 1975, wheat 1976.

NOTE: Incidence of pests and diseases was measured throughout the season.

77/R/LP/2

GRAIN TONNES/HECTARE

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

ROW SPAC SEEDRATE	13 CM	25 CM	38 CM	MEAN
120	1.98	2.07	1.87	1.97
240	2.13	2.23	2.12	2.16
360	2.12	1.99	1.91	2.01
MEAN	2.08	2.10	1.97	2.05
PATHCONT SEEDRATE	NONE	FULL	MEAN	
120	1.91	2.04	1.97	
240	2.13	2.19	2.16	
360	1.97	2.05	2.01	
MEAN	2.00	2.09	2.05	
PATHCONT ROW SPAC	NONE	FULL	MEAN	
13 CM	2.06	2.09	2.08	
25 CM	2.05	2.14	2.10	
38 CM	1.90	2.03	1.97	
MEAN	2.00	2.09	2.05	
ROW SPAC PATHCONT SEEDRATE	13 CM NONE	25 CM NONE	38 CM NONE	FULL
120	1.88	2.08	2.02	2.11
240	2.17	2.10	2.19	2.26
360	2.13	2.10	1.94	2.04
			1.84	1.99

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

TABLE	SEEDRATE	ROW SPAC	PATHCONT	SEEDRATE ROW SPAC
SED	0.062	0.062	0.050	0.107
TABLE	SEEDRATE PATHCONT	ROW SPAC PATHCONT	SEEDRATE ROW SPAC PATHCONT	
SED	0.087	0.087	0.151	

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

STRATUM	DF	SE	CV%
BLOCK.WP	17	0.151	7.4

GRAIN MEAN DM% 64.1

PLOT AREA HARVESTED 0.00002