

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 1983

[Full Table of Content](#)



## 83/R/BE/16 Seed Rates and Plant Health - S. Beans

### Rothamsted Research

Rothamsted Research (1984) *83/R/BE/16 Seed Rates and Plant Health - S. Beans* ; Yields Of The Field Experiments 1983, pp 300 - 301 - DOI: <https://doi.org/10.23637/ERADOC-1-44>

83/R/BE/16

SPRING BEANS

SEED RATES AND PLANT HEALTH

Object: To study the effects of three seed rates and two standards of plant health on the yield of s. beans - Long Hoos V 2.

Sponsors: J. McEwen, D.P. Yeoman.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 2.40 x 3.00.

Treatments: All combinations of:-

1. POPULATN Plant populations in thousands per hectare:

	Target population	Population achieved
2	200,000	140,000
4	400,000	270,000
6	600,000	350,000

2. PATHCONT Pest and pathogen control:

STANDARD Pirimicarb at 0.14 kg in 340 l on 13 June, 1983

ENHANCED Permethrin at 0.15 kg in 220 l on 4 May and 24 May  
Pirimicarb at 0.14 kg in 340 l on 13 June  
Propiconazole at 0.12 kg in 340 l on 26 July  
Benomyl at 0.5 kg in 340 l on 7 July

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg.  
Trietazine at 1.1 kg with simazine at 0.16 kg in 220 l.

Seed: Minden.

Cultivations, etc.: - Muriate of potash applied: 16 Sept, 1982. Chalk applied: 28 Sept. Ploughed: 26 Nov. Spring-tine cultivated twice: 10 and 11 Mar, 1983. Seed sown: 11 Mar. Weedkillers applied: 17 Mar. Harvested by hand: 15 Aug. Previous crops: Potatoes 1981, s. barley 1982.

NOTE: Plant counts were made after establishment and components of yield were measured at maturity.

83/R/BE/16

GRAIN TONNES/HECTARE

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

PATHCONT POPULATN	STANDARD	ENHANCED	MEAN
2	2.06	2.08	2.07
4	2.71	2.72	2.71
6	2.71	3.25	2.98
MEAN	2.49	2.68	2.59

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

TABLE	POPULATN	PATHCONT	POPULATN PATHCONT
-----	-----	-----	-----
SED	0.165	0.135	0.234

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.330	12.8

GRAIN MEAN DM% 88.8

PLOT AREA HARVESTED 0.00015