

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 1972

[Full Table of Content](#)



## 72/R/BE/3 Spring Beans Control of Pests and Diseases

### Rothamsted Research

Rothamsted Research (1973) *72/R/BE/3 Spring Beans Control of Pests and Diseases* ; Yields Of The Field Experiments 1972, pp 327 - 328 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/R/BE/3

SPRING BEANS

CONTROL OF PESTS AND DISEASES

Object: To study the effects of a range of chemicals on pest and disease incidence and yield of beans using a seed stock infected with seed-borne viruses and not isolated from other bean crops (see also 72/R/CS/95) - Great Knott III.

Sponsors: A.J. Cockbain, R. Bardner, G.A. Salt.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 6.40 x 15.2. Area harvested: 0.00615.

Treatments (T): None

Aldicarb nematicide at 4.5 kg applied in granules

Gamma BHC insecticide at 2.2 kg in 2220 l

Dexon fungicide at 79 kg as a dust

Dieldrin insecticide at 2.2 kg in 2220 l

Treatments applied and all plots rotary cultivated: 23 Mar, 1972.

(O)  
(A)  
(B)  
(DE)  
(DI)

Basal applications: Ground chalk at 7.5 tonnes. FYM at 30 tonnes. 400 kg (0:14:28) placement drilled. Weedkillers: Paraquat at 0.56 kg ion in 220 l. Simazine at 0.84 kg in 220 l. Insecticide: Demeton-s-methyl at 0.25 kg in 440 l.

Seed: Maris Bead, sown at 220 kg.

Cultivations, etc.: Chalk applied: 3 Sept, 1971. Paraquat applied: 30 Sept  
FYM applied: 15-22 Nov. Ploughed: 15-24 Nov. Seed placement drilled:  
24 Mar, 1972. Simazine applied: 2 May. Demeton-s-methyl applied:  
24 June. Combine harvested: 26 Sept. Previous crops: Winter wheat 1970  
barley 1971.

NOTE: Incidence of viruses was assessed on 3 occasions. Infestations by weevils, aphids and stem eelworm were also assessed.

Standard error per plot.

Grain, tonnes/hectare: 0.191 or 5.2% (12 d.f.)

72/R/BE/3

TABLE OF MEANS

GRAIN: TONNES/HECTARE

T					Mean
O	A	B	DE	DI	
3.43	3.95	3.60	3.81	3.58	3.68

STANDARD ERROR OF DIFFERENCES

T 0.135

Mean D.M.%: 82.5