

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/CS/95 Control of Pests and Diseases - S. Beans

Rothamsted Research

Rothamsted Research (1973) *72/R/CS/95 Control of Pests and Diseases - S. Beans ; Yields Of The Field Experiments 1972*, pp 254 - 255 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/R/CS/95

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 free of seed borne viruses and a site isolated from other bean crops (see also 72/R/BE/3) - West Barnfield I.

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

The first year, spring beans.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 6.40 x 19.2. Area harvested: 0.00615.

Treatments (T): None (O)
Aldicarb nematicide at 4.5 kg applied in granules (A)
Gamma BHC insecticide at 2.2 kg in 2220 l (B)
Dexon fungicide at 79 kg in 4440 l (DE)
Dieldrin insecticide at 2.2 kg in 2220 l (DI)
One plot per block was reserved without treatment (R)
Treatments applied and all plots rotary cultivated: 24 Mar, 1972.

Basal applications: Ground chalk at 7.5 tonnes. 400 kg (0:14:28) placement drilled. Weedkillers: Paraquat at 0.42 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: Minor, sown at 220 kg.

Cultivations, etc.: Chalk applied: 3 Sept, 1971. Paraquat applied: 24 Sept. Ploughed: 13 Nov. Seed placement drilled: 25 Mar, 1972. Simazine applied: 2 May. Demeton-s-methyl applied: 24 June. Combine harvested: 25 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: 0.179 or 4.8% (23 d.f.)

72/R/CS/95

TABLES OF MEANS

GRAIN: TONNES/HECTARE

	T				
O*	A	B	DE	DI	Mean
3.58	3.59	3.70	3.90	3.92	3.71

STANDARD ERRORS OF DIFFERENCES

T	
Between any of A, B, DE or DI	0.127
O v any of A, B, DE or DI	0.110

Mean D.M. %: 80.6

* Duplicated treatment