

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/W/CS/55 Fumigation and N - S. Beans

### Rothamsted Research

Rothamsted Research (1973) *72/W/CS/55 Fumigation and N - S. Beans ; Yields Of The Field Experiments 1972*, pp 202 - 203 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/W/CS/55

FUMIGATION AND N

Object: To study the cumulative effects of dazomet and nitrogen fertiliser on pathogens and yield of spring beans grown continuously - Woburn Butt Furlong.

Sponsors: J. McEwen, G.A. Salt, D. Hornby.

The fourth year, spring beans.

For previous years see 69/W/BE/1(t) and 70-71/W/CS/55.

Whole plot dimensions: 2.13 x 4.27. Area harvested: 0.00020.

Basal applications: 7.5 tonnes magnesian limestone, 400 kg (0:14:28).  
Insecticide: Demeton-s-methyl at 0.25 kg in 340 l.

Seed: Minor sown at 220 kg.

Cultivations, etc.: Ploughed: 14 Sept, 1971. Dazomet applied, all plots rotary cultivated, rolled: 21 Sept. Magnesian limestone applied: 26 Oct. Ploughed second time: 14 Feb, 1972. Fertiliser placed, seed drilled: 20 Mar. First half N applied: 22 Mar. Second half N applied: 16 May. Insecticide applied: 27 June. Hand harvested: 26 Sept.

NOTES: (1) Soil samples taken for counts of ectoparasitic nematodes.  
(2) Plant samples taken for observations of fungal pathogens.  
(3) Counts made of germination %, number of stems and pods before harvest, 1000 grain weights and % nitrogen in grain.

Standard error per plot.

Grain, tonnes/hectare: 0.356 or 33.3% (10 d.f.)

72/W/CS/55

TABLES OF MEANS

GRAIN: TONNES/HECTARE

N: KG/HA 1969-72

	0	126	252	Mean
DAZOMET: KG/HA 1969-72				
0	0.70	0.30	0.33	0.44
450	1.45	1.76	1.88	1.70
Mean	1.08	1.03	1.10	1.07

STANDARD ERRORS OF DIFFERENCES

DAZOMET	N	DAZOMET N
0.168	0.206	0.291

Mean D.M. %: 83.4