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

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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