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Numerical Results of the Field Experiments 1969

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69/W/BE/1 - Fumigation & N - Beans

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Rothamsted Research (1970) *69/W/BE/1 - Fumigation & N - Beans* ; Numerical Results Of The Field Experiments 1969, pp 276 - 277 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

SPRING BEANS

(69/W/BE/1)

Effects of fumigation and nitrogen - Woburn Butt Furlong 1969.

Design: 3 blocks of 6 plots.

Area of each plot: 0.0022. Area harvested: 0.0005.

Treatments: All combinations of:-

1. Fumigant: None (0), dazomet at 400 lb (F).
2. Nitrogen: None (N0), 1.0 (N1), 2.0 (N2) cwt N as 'Nitro-Chalk' 21, half seedbed, half top dressing.

Basal applications: 360 lb (0:14:28). Weedkiller: Simazine at 0.75 lb in 25 gals. Insecticides: Menazon (Saphicol at 1 pint in 28 gals), demeton-s-methyl at 4.4 oz in 20 gals.

Cultivations, etc.: Ploughed: 14 Oct, 1968. Fumigant applied: 16 Oct. Rotary cultivated twice to 4 inches and 8 inches: 17 Oct. Rolled: 18 Oct. Ploughed second time: 17 Jan, 1969. PK applied, seed drilled at 200 lb: 31 Mar. First application of N: 3 Apr. Weedkiller applied: 4 Apr. Menazon applied: 24 May. Second application of N: 30 May. Demeton-s-methyl applied: 2 July. Hand harvested: 4 Sept. Variety: Tarvin. Previous crops: Barley 1967, 1968.

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

Standard error per plot:

Grain, cwt: 1.94 or 14.3% (10 d.f.)

SUMMARY OF RESULTS

GRAIN, CWT

	NO	N1	N2	Mean
		(±1.12)		(±0.65)
O	13.4	10.0	8.2	10.5
F	16.0	16.1	18.1	16.7
Mean (±0.79)	14.7	13.1	13.1	13.6

Mean D.M. %: 80.8