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Numerical Results of the Field Experiments 1970

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70/W/CS/55 Spring Beans

Rothamsted Research

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SPRING BEANS

(70/W/CS/55)

Effects of fumigation and nitrogen - Woburn Butt Furlong 1970, second year. For previous year's results see 'Results' 69/W/BE/1.

Design: 3 blocks of 6 plots.

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

Treatments (cumulative 1969, 1970): 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 dressed.

Basal applications: 400 lb (0:14:28). Insecticide: Demeton-s-methyl at 3.5 fl oz in 35 gals.

Cultivations, etc.: Ploughed: 9 Sept, 1969. Fumigant applied, rotary cultivated twice to 4 inches and 6 inches: 18 Sept. Ploughed second time: 11 Feb, 1970. Power harrowed, fertiliser placed, seed drilled at 200 lb: 20 Mar. First application of N: 3 Apr. Second application of N: 15 May. Insecticide applied: 22 June. Hand harvested: 28 Aug. Variety: Tarvin.

- 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: 0.72 or 7.3% (10 d.f.)

70/W/CS/55

SUMMARY OF RESULTS

GRAIN: CWT

	NO	N1	N2	Mean
		(±0.41)		(±0.24)
O	9.6	9.5	5.5	8.2
F	9.7	11.5	12.9	11.4
Mean (±0.29)	9.6	10.5	9.2	9.8

Mean D.M. %: 83.0