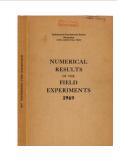
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Numerical Results of the Field Experiments 1969



Full Table of Content

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

Rothamsted Research

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

276

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:-

Fumigant: None (0), dazomet at 400 lb (F).
 Nitrogen: None (NO), 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. Furnigant 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.)

277

SUMMARY OF RESULTS GRAIN, CWT

	NO	NI	N2	Mean
	"č630 _c 0 s	(±1.12)	-21.6- 1.23	(±0.65)
0	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