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# Numerical Results of the Field Experiments 1970

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## 70/R/BE/7 Spring Beans Chemical Control of Soil-borne Pathogens

### Rothamsted Research

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## SPRING BEANS

(70/R/BE/7)

Chemical control of soil-borne pathogens, Barnfield (Valley Section, part of plot 3 and 4) 1970.

Design: 2 blocks of 2 plots split into 5.

Area of each sub plot: 0.0014. Area harvested: 0.0006.

Treatments: All combinations of:-

Whole plots: 1. Manuring: Classical treatments since 1968:-

Plot 3: no manures (O)

Plot 4: P, K, Na, Mg (30 lb P as superphosphate, 200 lb K as sulphate of potash, 80 lb Na as agricultural salt, 20 lb Mg as sulphate of magnesia) (PKNaMg)

Sub plots: 2. Chemical control:-

None (O)

Nematicide, 10% aldicarb ('Temik') at 10 lb a.i. (N)

Fungicide, 50% benomyl at 20 lb a.i. (F)

Insecticide, 50% gamma BHC at 2 lb a.i. (I)

Nematicide, fungicide and insecticide (as above) together. (NFI)

All plots were rotary cultivated immediately after application of chemicals.

Basal applications: Manures - none. Weedkiller: Simazine at 1 lb in 20 gals. Insecticide: Demeton-s-methyl at 3.5 oz in 40 gals.

Cultivations, etc.: P, K, Na, Mg applied: 21 Nov, 1969. Ploughed: 1 - 19 Dec. Chemical control treatments applied, all plots rotary cultivated: 20 Mar, 1970. Seed drilled at 200 lb: 20 Apr. Weedkiller applied: 24 Apr. Insecticide applied: 17 June. Harvested by hand: 3 Sept. Variety: Maris Bead.

NOTE: Wilted plants were counted during the season. Crop samples were taken for root disease assessment, and soil samples for counting *Sitona* beetle larvae. Counts were made of stem eelworm (*Ditylenchus dipsaci*) incidence.

Standard error per sub plot.

Grain, cwt: 2.44 or 15.1% (8 d.f.)

70/R/BE/7

SUMMARY OF RESULTS

GRAIN: CWT

	O	N	F	I	NFI	Mean
			(±1.72)*			
O	9.5	19.5	15.7	13.3	16.3	14.9
PK Na Mg	15.3	20.2	15.5	13.1	23.0	17.4
Mean (±1.22)	12.4	19.8	15.6	13.2	19.7	16.2

Mean D.M. %: 79.4

\* For use in horizontal and interaction comparisons only