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72/R/BE/9 Spring Beans Roguing and Viruses

Rothamsted Research

Rothamsted Research (1973) *72/R/BE/9 Spring Beans Roguing and Viruses* ; Yields Of The Field Experiments 1972, pp 336 - 337 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/R/BE/9

SPRING BEANS

ROGUING AND VIRUSES

Object: To study the effects of roguing on spread of Broad Bean Stain and True Mosaic Viruses and on yield of beans - Great Knott III.

Sponsors: A.J. Cockbain, S. Vorra Urai.

Design: 4 randomised blocks of 3 plots.

Whole plot dimensions: 6.40 x 15.2. Area harvested: 0.00465.

Treatments: Roguing:- None (0), rogued once (1) (12 May), rogued repeatedly (R) (12 May, 22 May, 8 June).

Basal applications: Ground chalk at 7.5 tonnes. FYM at 30 tonnes. 400 kg (0:14:28) placement drilled. Weedkillers: Paraquat at 0.56 kg ion in 220 l. Simazine at 1.12 kg in 220 l. Insecticide: Phorate at 1.12 kg as granules.

Seed: Maris Bead sown at 220 kg.

Cultivations, etc.: Chalk applied: 3 Sept, 1971. Paraquat applied: 30 Sept. FYM applied: 15-22 Nov. Ploughed: 15-24 Nov. Seed placement drilled: 22 Mar, 1972. Simazine applied: 2 May. Insecticide applied: 20 June. Combine harvested: 26 Sept. Previous crops: Winter wheat 1970, barley 1971.

NOTE: Incidence of broad bean stain/broad bean true mosaic viruses was assessed in untreated plots on 11 May, 22 June and 16 August and in R1 plots on 22 June and 16 August. Incidence of viruses in harvested seed was assessed.

Standard error per plot.

Grain, tonnes/hectare: 0.329 or 9.1% (6 d.f.).

72/R/BE/9

TABLE OF MEANS

GRAIN: TONNES/HECTARE

ROGUING

0	1	R	Mean
3.60	3.65	3.65	3.63

STANDARD ERROR OF DIFFERENCES

ROGUING 0.233

Mean D.M.%: 82.3