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72/R/BE/2 Spring Beans Varieties and Viruses

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72/R/BE/2

SPRING BEANS

VARIETIES AND VIRUSES

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

Sponsor: A.J. Cockbain.

Design: 6 randomised blocks of 4 plots.

Whole plot dimensions: 6.40 x 15.2. Area harvested: 0.00488.

Treatments: Varieties and sowing dates:

| | | |
|-----------------------|------------|------|
| Sown on 29 Mar, 1971: | Herz Freya | (HF) |
| | Maris Bead | (MB) |
| | Minor | (M) |
| Sown on 4 Apr: | Tarvin | (T) |

NOTE: Tarvin was not available at date of sowing the other varieties.

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 0.84 kg in 220 l. Insecticide: Phorate at 1.1 kg as granules.

Seed: Sown at 220 kg.

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

NOTE: Incidence of viruses and infestation by weevils were assessed.

Standard error per plot.

Grain, tonnes/hectare: 0.184 or 5.7% (23 d.f.)

72/R/BE/2

TABLE OF MEANS

GRAIN: TONNES/HECTARE

VARIETY

| HF | MB | M | T | Mean |
|------|------|------|------|------|
| 3.16 | 3.48 | 3.21 | 3.15 | 3.25 |

STANDARD ERROR OF DIFFERENCES
VARIETY 0.106

Mean D.M. %: 81.3