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Yields of the Field Experiments 1973

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73/R/BE/4 - Varieties & Viruses - Beans

Rothamsted Research

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73/R/24/4

SPRING BEANS

VARIETIES AND VIRUSES

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

Sponsor: A.J. Cockbain.

Design: 4 randomised blocks of 4 plots.

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

Treatments: Varieties	VARIETY
Hertz Freya	Freya
Marie Bead	Bead
Minden	Minden
Minor	Minor

Basal applications: Manures: Ground chalk at 7.5 tonnes, (0:20:20) at 1300 kg, Epsom salts at 900 kg in autumn. (0:14:28) at 400 kg, placement drilled. **Weedkiller:** Simazine at 0.84 kg in 220 l. **Insecticide:** Demeton-s-methyl at 0.25 kg in 370 l.

Seed: Sown at 220 kg.

Cultivations, etc.:- Autumn PK applied: 12-21 Sept, 1972. Epsom salts applied: 22 Sept. Chalk applied: 25 Sept. Ploughed: 22 Nov. Seed sown and weedkiller applied: 23 Mar, 1973. Insecticide applied: 8 June. Combine harvested: 4 Sept. Previous crops: Winter wheat 1971, barley 1972.

NOTE: Incidence of viruses was assessed on 9, 25 May, 7, 29 June, 17 July. Adult weevil damage was assessed on 17 May. Seed samples were taken at harvest for assessment of virus infection.

Standard error per plot.

Grain, tonnes/hectare: 0.290 or 8.2% (9 d.f.)

73/R/BE/4

TABLES OF MEANS

GRAIN: TONNES/HECTARE

VARIETY				
Freya	Bead	Minden	Minor	Mean
3.58	3.10	4.05	3.51	3.56

STANDARD ERROR OF DIFFERENCES

VARIETY

0.205

Mean D.M. % 80.5