

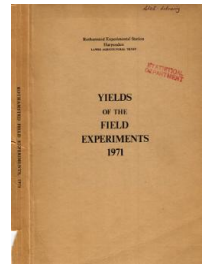
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71/R/BE/6 Varieties and Broad *bean* Stain Virus - Beans

Rothamsted Research

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71/R/BE/6

SPRING BEANS

VARIETIES AND BROAD BEAN STAIN VIRUS

Object: To study the susceptibility of different varieties and sources of beans to broad bean stain virus and to compare yields - Long Hoos I and II.

Design: 4 randomised blocks of 13 plots.

Whole plot dimensions: 4.05 x 15.2. Area harvested: 0.00464.

Treatments: Varieties:

Blue Rock	(BR)
Francks Ackerperle	(FA)
F1 hybrid 6 x S45	(F1)
Herz Freya	(HF)
Maxime	(MA)
Maris Bead: Cambridge stock	(MBC)
Cheshire stock	(MBN)
Rothamsted stock	(MBR)
Lincolnshire stock	(MBL)
Minor	(MI)
Ostlers	(OS)
Tarvin	(TA)
Throws MS	(TH)

Basal applications: 7530 kg ground chalk. 405 kg (0:14:28) applied by Tume drill across plots. Weedkiller: Dinoseb acetate at 2.7 kg in 426 l. Insecticide: Demeton-s-methyl at 245 g in 438 l. Irrigation: 25.4 mm (1 inch).

Cultivations, etc.: Chalk applied: 7 Sept, 1970. Ploughed: 29 Sept. Basal PK applied: 24 Feb, 1971. Seed drilled at 224 kg: 11 Mar. Weedkiller applied: 11 May. Irrigated: 15 May. Insecticide applied: 3 July. Combine harvested: 9 Sept. Previous crops: Winter wheat 1969, spring wheat 1970.

NOTE: Incidence of virus was recorded on all plots. Aphid and weevil infestations were recorded. The dinoseb acetate spray severely scorched all plants and probably affected yield.

Standard error per plot:

Grain, tonnes/hectare: 0.187 or 9.5% (36 d.f.)

71/R/BE/6

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

BR	FA	FL	HF	MA	MBC	MBN	MBR	MBL	MI	OS	TA	TH	Mean
1.87	1.82	2.04	1.86	2.06	1.94	2.07	2.00	2.05	2.13	2.01	1.97	1.90	1.98

(± 0.094)

Mean D.M.%: 85.6