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Numerical Results of the Field Experiments 1970

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70/R/BE/8 Spring Beans Broad *bean* Mottle Virus

Rothamsted Research

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SPRING BEANS

(70/R/EE/8)

Broad bean mottle virus, Fosters O and E II 1970.

Design: 5 x 5 Latin square.

Area of each plot: 0.0064. Area harvested: 0.0048.

Treatments: Insecticides:-

None	(O)
Aldicarb ('Temik 10G') to soil at 10 lb a.i.	(TS)
BHC to soil at 1 lb a.i. in 600 gals	(BS)
BHC foliar spray at 0.5 lb a.i. in 150 gals on five occasions	(BF)
Menazon foliar spray at 0.25 lb a.i. in 150 gals on five occasions	(MF)

NOTE: All plots were rotary cultivated immediately after the TS and BS treatments.

Basal applications: 390 lb (0:14:28) broadcast.

Cultivations, etc.: Ploughed: 8 Oct and 1 - 3 Nov, 1969. Basal PK applied: 20 Mar, 1970. 'Temik 10G' and BHC applied to soil: 7 Apr. All plots rotary cultivated, seed drilled at 200 lb in 10 inch rows: 10 Apr. BF treatment applied: 26 May, 8 and 25 June, 8 and 22 July. MF treatment applied: 1 and 15 June, 7 and 22 July and 5 Aug. Combine harvested: 7 Sept. Variety: Maris Bead. Previous crops: Wheat, rye and vetches 1968, barley 1969.

- NOTES: (1) The virus observed in this experiment is now known to be broad bean stain virus.
- (2) The number of weevils and the percentage of plants infested with aphids were recorded on all plots on 5 and 19 June, 3 and 20 July and 10 Aug. Incidence of virus was recorded on all plots on 20 May, 8 and 25 June and 20 July.

Standard error per plot.

Grain, cwt: 1.25 or 9.4% (12 d.f.)

70/R/BE/8

SUMMARY OF RESULTS

GRAIN: CWT

O	TS	BS	BF	MF	Mean
		(±0.56)			
9.6	21.3	10.7	13.8	11.2	13.3

Mean D.M. %: 81.7