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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

Rothamsted Research (1971) *70/R/BE/8 Spring Beans Broad bean Mottle Virus ; Numerical Results Of The Field Experiments 1970*, pp 280 - 281 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

## 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<br>five occasions      | (BF) |
| Menazon foliar spray at 0.25 lb a.i. in 150 gals on<br>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