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86/R/PE/1 Effects of Pea Seed-borne Mosaic Virus - Peas

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86/R/PE/1

PEAS

EFFECTS OF PEA SEED-BORNE MOSAIC VIRUS

Object: To study the transmission, symptoms and effects on yield of pea seed-borne mosaic virus in different varieties of peas with and without insecticide - Fosters West.

Sponsor: A.J. Cockbain.

Design: 3 randomised blocks of 2 whole plots split into 6.

Whole plot dimensions: 20.0 x 5.0.

Treatments: All combinations of:-

Whole plots

- | | |
|-------------|---|
| 1. INSCTCDE | Insecticide: |
| NONE | None |
| PP 321 | 'PP 321' applied at 0.20 l in 220 l on 19 June, 1986, 30 June and 11 July |

Sub plots

- | | |
|------------|---|
| 2. VARIETY | Varieties: |
| BIRTE | Birte, sown at 230 kg |
| MARO | Maro, sown at 300 kg |
| PROGRETA | Progreta, sown at 230 kg |
| VEDETTE | Vedette, sown at 260 kg |
| WAVEREX | Waverex, seed infected pea seed-borne mosaic virus (duplicated), sown at 140 kg |

- NOTE: (1) The positions of the sub plots of Waverex were allocated to ensure that the other varieties were always adjacent to Waverex.
- (2) Plots were netted against bird damage from the end of July until harvest.
- (3) A strip of s. beans was sown at one end of the experiment and a strip of lupins at the other to assess virus spread to these crops.

Basal applications: Weedkillers: Simazine at 0.17 kg and trietazine at 1.2 kg in 200 l.

Cultivations, etc.: Heavy spring-tine cultivated: 12 Sept, 1985.
Ploughed: 6 Dec. Spring-tine cultivated, seed sown: 7 May, 1986.
Weedkillers applied: 16 May. Combine harvested: 9 Sept. Previous crops: W. wheat 1984 and 1985.

- NOTES: (1) Aphid numbers were assessed during the growing season. Virus incidence was assessed in the plants at the end of flowering and in seed from some plots after harvest.
- (2) Because of a harvesting error one plot was lost, with treatment combination PP 321, PROGRETA. An estimated value was used in the analysis.