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71/R/B/5 Control of Cereal Aphids and Bydv - Barley

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71/R/B/5

BARLEY

CONTROL OF CEREAL APHIDS AND BYDV

Object: To study the effects of controlling cereal aphids on the incidence of barley yellow dwarf virus - Great Knott III.

Design: 4 blocks of 2 x 2 x 2 randomisation restricted.

Whole plot dimensions: 6.40 x 24.4. Area harvested: 0.00390.

Treatments: Insecticides. All combinations of:-

1. Granules broadcast at sowing: None (O), 4.50 kg phorate (GE).
2. Spray in May: None (O), menazon ('Saphicol' at 0.70 l in 449 l) (SM).
3. Spray in June: None (O), menazon ('Saphicol' at 0.70 l in 449 l) (SL).

Basal applications: 437 kg (20:10:10) combine drilled. Weedkillers: Paraquat at 0.56 kg ion in 225 l. Ioxynil octanoate, bromoxynil octanoate and the iso-octyl ester of dichlorprop ('Oxytril P' at 1.40 l in 225 l).

Cultivations, etc.: Paraquat applied: 14 Oct, 1970. Ploughed: 2 Nov. Phorate applied to GE plots, all plots rotary cultivated, seed combine drilled at 157 kg: 12 Mar, 1971. 'Oxytril P' applied: 11 May. Menazon applied: SM plots - 24 May, SL plots - 23 June. Combine harvested: 19 Aug. Variety: Julia. Previous crops: Potatoes 1969, winter wheat 1970.

NOTE: Virus infection was assessed and samples were taken for aphid incidence.

Standard error per plot.

Grain, tonnes/hectare: 0.154 or 2.6% (21 d.f.)

71/R/B/5

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

| | O | SM | O | SL | Mean |
|---------------|----------|------|----------|------|----------|
| | (±0.055) | | (±0.055) | | (±0.039) |
| O | 5.75 | 5.93 | 5.84 | 5.84 | 5.84 |
| GE | 6.12 | 6.23 | 6.19 | 6.16 | 6.18 |
| | | | (±0.055) | | (±0.039) |
| | | O | 5.95 | 5.92 | 5.93 |
| | | SM | 6.08 | 6.09 | 6.08 |
| Mean (±0.039) | | | 6.01 | 6.00 | 6.01 |

| | O | | GE | |
|----|----------|------|------|------|
| | O | SL | O | SL |
| | (±0.077) | | | |
| O | 5.72 | 5.77 | 6.18 | 6.07 |
| SM | 5.95 | 5.92 | 6.20 | 6.25 |

Mean D.M. \bar{x} : 85.5