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73/R/OW/1

WINTER OATS

SOWING DATES, APHIDS AND BYDV

Object: To study the effects on grain yield and incidence of cereal aphids and barley yellow dwarf virus (BYDV) of insecticides applied at various times to winter oats sown at a range of dates - White Horse I.

Sponsor: R.T. Plumb.

Design: 4 randomised blocks of 12 plots.

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

Treatments: All combinations of:-

| | |
|--|---------|
| 1. Date of sowing: | DATE |
| Early, 25 September, 1972 | Early |
| Middle, 26 October, 1972 | Middle |
| Late, 23 November, 1972 | Late |
| 2. Phorate granules to seedbed (kg) | PHORATE |
| 0 | 0 |
| 5 | 5 |
| 3. Menazon spray in May (1 'Saphi-Col) | MENAZON |
| 0.0 | 0.0 |
| 0.7 | 0.7 |

Basal applications: Manures: 310 kg (0:20:20) combine drilled, 280 kg 'Nitro-Chalk'. Weedkiller: MCPA, mecoprop and dicamba ('Tetralex plus' at 7.0 l in 220 l).

Seed: Peniarth sown at 190 kg.

Cultivations, etc.:- Deep-tine cultivated: 15 Sept and 18 Sept, 1972. Spring-tine cultivated: 20 Sept. Phorate applied, plots to be sown power harrowed and seed sown: 25 Sept. Phorate applied, plots to be sown power harrowed and seed drilled: 26 Oct. Phorate applied, plots to be sown and power harrowed: 22 Nov. Seed sown: 23 Nov. N applied: 12 Apr, 1973. Weedkiller applied: 17 Apr. Menazon applied: 21 May.