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76/R/RA/1

WINTER OILSEED RAPE

EFFECTS OF PATHOGENS

Object: To study the effects and interactions of several factors on yield and pathogens of winter oilseed rape - Summerdells I.

Sponsor: C.J. Rawlinson.

Design: Two replicates of 3 x 2 x 2 x 2 fully randomised.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

- | | |
|-------------|---|
| 1. WEEDKLLR | Weedkillers: |
| NONE | None |
| CARBETAM | Carbetamide |
| DALAPON | Dalapon |
| 2. NEMACIDE | Nematicide: |
| NONE | None |
| ALDICARB | Alidicarb at 8.74 kg on 3 Sept, 1975 |
| 3. FUNGCIDE | Fungicide: |
| NONE | None |
| BENOMYL | Benomyl seed dressing at 0.5 per kg of seed |
| 4. VARIETY | Varieties: |
| EURORA | Eurora (low erucic acid) |
| VICTOR | Victor (high erucic acid) |

- NOTES: (1) Weedkillers were applied in 340 l. Carbetamide was applied at 1.4 kg and dalapon at 3.4 kg on 4 Nov, 1975. These applications were repeated at half these rates on 18 Dec.
- (2) The experiment was severely damaged by pigeon grazing during autumn and winter and many plots were infested with barley volunteers, consequently planned tests of benomyl and HCH foliar sprays were not applied.
- (3) Only 23 of 48 plots produced a measurable yield at harvest, consequently yields are not presented.

Basal applications: Manures: (10:24:24) at 310 kg, 'Nitro-Chalk' at 800 kg dressing divided.

Seed: Varieties sown at 8 kg.

Cultivations, etc.: Deep-tine cultivated three times: 20, 27 Aug, 1975.
NPK applied: 1 Sept. Power harrowed: 4 Sept. Seed sown: 5 Sept.
Half N applied: 27 Feb, 1976. Second half N applied: 13 Apr.
Combine harvested: 19 July. Previous crops: Barley 1974, barley 1975.