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Yields of the Field Experiments 1976

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76/R/SW/1 Effects of Fungicides and Insecticides - Swedes

Rothamsted Research

Rothamsted Research (1977) *76/R/SW/1 Effects of Fungicides and Insecticides - Swedes* ; Yields Of The Field Experiments 1976, pp 340 - 341 - DOI: <https://doi.org/10.23637/ERADOC-1-15>

76/R/SW/1

SWEDES

EFFECTS OF FUNGICIDES AND INSECTICIDES

Object: To study the effects of pesticides on mildew, aphids, viruses and yield of swedes sown early or late - Long Hoos IV 6.

Sponsors: J.F. Jenkyn, C.J. Rawlinson.

Design: 3 randomised blocks of 14 plots.

Whole plot dimensions: 1.91 x 5.49.

Treatments: All combinations of:-

1. SOW DATE Sowing date:
EARLY Early, 22 March
LATE Late, 29 June
2. CHEMICAL Chemicals and times of application:
NONE None
T/E Tridemorph to early growth
T/L Tridemorph to late growth
T/EL Tridemorph to early and late growth
T+D/EL Tridemorph and demeton-s-methyl to early and late growth
A+T+D/EL Aldicarb to seedbed, tridemorph and demeton-s-methyl to early and late growth
B/EL Benomyl to early and late growth

- NOTES: (1) Due to drought SOW DATE LATE failed.
(2) Dates of spraying tridemorph and benomyl:
To early growth: 22 July, 12 Aug.
To late growth: 3 Sept, 23 Sept.
Dates of spraying demeton-s-methyl:
27 May, 11 June, 25 June, 9 July, 22 July, 6 Aug, 20 Aug,
3 Sept, 23 Sept.
(3) Chemicals were applied in 340 l:-
Tridemorph at 0.53 kg, benomyl at 1.12 kg, demeton-s-methyl at 0.25 kg. "Manoxol" (a wetting agent) was used with tridemorph and benomyl at 4.1 ml per litre of spray.
(4) Aldicarb was applied at 6 kg.

Basal applications: Manures: (0:14:28) at 880 kg. 'Nitro-Chalk' at 500 kg.
Weedkiller: Trifluralin at 1.1 kg in 340 l.

Seed: Wilhelmsburger, sown at 4.5 kg.

Cultivations, etc.:- (To SOW DATE EARLY only). Spring-tine cultivated: 16 Sept, 1975. PK applied: 23 Sept. Ploughed: 25 Sept. Spring-tine cultivated: 24 Mar. 1976. Spring-tine cultivated twice: 13 Apr. Weedkiller applied, spring-tine cultivated, aldicarb applied, all plots power harrowed: 21 Mar. Seed sown and rolled: 22 Mar. Plots thinned by hand: 8 June. Lifted: 15 Nov. Previous crops: Oats 1974, winter wheat 1975.

- NOTES: (1) Mildew was assessed throughout the season.
(2) Virus scores, aphid counts and leaf size assessments were made throughout the season.
(3) Numbers of roots per plot were counted at harvest.

76/R/SW/1

ROOTS TONNES/HECTARE

***** TABLES OF MEANS *****

| CHEMICAL | NONE | T/E | T/L | T/EL | T+D/EL | A+T+D/EL | B/EL | MEAN |
|----------|------|------|------|------|--------|----------|------|------|
| | 26.2 | 36.0 | 25.8 | 38.1 | 41.5 | 38.3 | 37.5 | 34.8 |

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

| TABLE | CHEMICAL |
|-------|----------|
| ----- | ----- |
| SED | 2.91 |

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATIONS *****

| STRATUM | DF | SE | CV% |
|----------|----|------|------|
| BLOCK.WP | 12 | 3.56 | 10.2 |

PLOT AREA HARVESTED 0.00063