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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

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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.

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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
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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