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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.

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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