

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1975

[Full Table of Content](#)



75/ R/G4/1 - Effects of Fungicides & Insecticide - Sweedes

Rothamsted Research

Rothamsted Research (1976) 75/ R/G4/1 - *Effects of Fungicides & Insecticide - Sweedes* ; Yields Of The Field Experiments 1975, pp 377 - 378 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/R/SW/1

SWEDES

EFFECTS OF FUNGICIDES AND INSECTICIDE

Object: To study the effects of fungicides and insecticide on mildew, viruses and yield of swedes sown early or late - Long Hoos V 4.

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

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 1.91 x 5.49.

Treatments: All combinations of:-

1. Sowing date:

SOWDATE

Early, 1 May

EARLY

Late, 23 June

LATE

2. Chemicals and times of application:

CHEMICAL

None

NONE

Tridemorph to early growth

TR/E

Tridemorph to late growth

TR/L

Tridemorph to early + late growth

TR/EL

Tridemorph and pirimicarb to early + late growth

TR+PI/EL

Benomyl to early + late growth

BEN/EL

NOTES: (1) Dates of spraying:

SOWDATE EARLY to Early growth: 24 June, 25 July

SOWDATE EARLY to Late growth: 22 Aug, 1 Sept, 22 Sept

SOWDATE LATE to Early growth: 22 Aug, 1 Sept

SOWDATE LATE to Late growth: 22 Sept

An additional pirimicarb spray was applied to CHEMICAL TR+PI/EL - to SOWDATE EARLY on 13 June, to SOWDATE LATE on 25 July.

(2) Chemicals were applied in 340 l:-

Tridemorph at 0.53 kg, benomyl at 1.0 kg, pirimicarb at 0.14 kg.

Basal applications: Manures: (24:14:14) at 730 kg. Weedkiller: Trifluralin ('Treflan' at 2.3 l in 340 l).

Seed: Wilhelmsburger, sown at 4.5 kg.

Cultivations: Ploughed: 19 Sept, 1974. NPK applied: 28 Apr, 1975.

Early-sown plots: Weedkiller applied and power harrowed: 30 Apr.

Seed sown: 1 May.

Late-sown plots: Weedkiller applied, rotary cultivated and seed sown: 23 June.

Lifted: 24 Nov. Previous crops: Potatoes 1973, wheat and barley 1974.

NOTE: Mildew and virus infections were assessed at intervals throughout the season.

75/R/SW/1

*** TABLES OF MEANS ***

ROOTS TONNES/HECTARE

CHEMICAL SOWDATE	NONE	TR/E	TR/L	TR/EL	TR+PI/EL	BEN/EL	MEAN
EARLY	20.6	21.5	23.6	28.4	35.4	32.4	27.0
LATE	19.8	25.9	16.9	20.8	21.3	27.5	22.0
MEAN	20.2	23.7	20.3	24.6	28.3	30.0	24.5

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

TABLE	SOWDATE	CHEMICAL	SOWDATE CHEMICAL
SED	1.25	2.16	3.06

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	22	3.74	15.3

ROOT NUMBER THOUSANDS/HECTARE

CHEMICAL SOWDATE	NONE	TR/E	TR/L	TR/EL	TR+PI/EL	BEN/EL	MEAN
EARLY	111.1	119.6	102.6	121.7	104.7	114.8	112.4
LATE	86.1	85.6	89.3	92.5	81.3	75.5	85.0
MEAN	98.6	102.6	95.9	107.1	93.0	95.1	98.7

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

TABLE	SOWDATE	CHEMICAL	SOWDATE CHEMICAL
SED	5.57	9.65	13.65

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	22	16.72	16.9

PLOT AREA HARVESTED 0.00063