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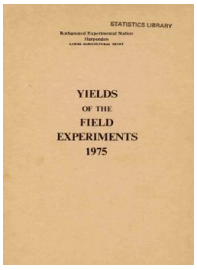
Yields of the Field Experiments 1975

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**

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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.

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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

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