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# Yields of the Field Experiments 1973



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# 73/R/CS/113 - Effects of Collembola on Seedlings - Sugar Beet

#### **Rothamsted Research**

Rothamsted Research (1974) 73/R/CS/113 - Effects of Collembola on Seedlings - Sugar Beet; Yields Of The Field Experiments 1973, pp 277 - 278 - DOI: https://doi.org/10.23637/ERADOC-1-98

#### 73/R/CS/113

### EFFECTS OF COLLEMBOLA ON SEEDLINGS

Object: To study the effects of insecticides on seedling damage by Collembola and yield of sugar beet - West Barnfield I.

Sponsor: C.A. Edwards.

The second year, sugar beet.

For previous year see 72/R/SB/1(t).

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 6.40 x 4.57. Area harvested: 0.00146.

Treatments: Insecticides (kg), applied cumulatively to treatments in 1972:-

None
Chlorfenvinphos, 4.5
Chlorfen
Diazinon, 4.5
DDT, 6.7
Parathion, 4.5
None
Chlorfen
Diazinon
Diazinon
DDT
Parathion

Treatments applied to the soil and all plots spring-time cultivated: 7 Feb, 1973.

Basal applications: Manures: (20:15:15) at 750 kg.

Seed: Amono, pelleted, sown at 13 kg.

Cultivations, etc.:- Ploughed: 27 Nov, 1972. NPK applied and power harrowed: 21 Mar, 1973. Seed sown: 23 Mar. Crop singled: 31 May. Tractor hoed: 6 June. Side hoed: 4 July. Lifted: 19 Nov.

NOTES: (1) Soil cores were taken before applying treatments and monthly through the growing season for counts of soil fauma.

(2) Plants were counted three times during the season.

Standard errors per plot.

Roots (washed): tonnes/hectare: 5.91 or 18.0% (12 d.f.)
Total sugar: tonnes/hectare: 0.944 or 17.5% (12 d.f.)

## 73/R/CS/113

#### TABLES OF MEANS

#### SUGAR BEET

#### INSCTODE

None	Chlorfen	Diazinon	DDT	Parathio	Mean
	ROOTS	(WASHED):	TONNES/H	ECTARE	
35.6	32.2	29.9	32.9	33.7	32.9
STANDAR	D ERROR OF	DIFFERENCE	S	100 100	
	INSCICDE				
	4.18				
SUGAR 7					
16.1	16.5	16.4	16.7	16.3	16.4
TOTAL SUGAR: TONNES/HECTARE					
5.75	5.33	4.91	5.51	5.49	5.40
STANDAF	ERROR OF	DIFFERENCE	S		
	INSCTODE				
	0.668				