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Yields of the Field Experiments 1961



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61/R/DF/1 Sugar Beet - Control of Virus Spread (Insecticides)

Rothamsted Research

Rothamsted Research (1962) 61/R/DF/1 Sugar Beet - Control of Virus Spread (Insecticides); Yields Of The Field Experiments 1961, pp 133 - 134 - DOI: https://doi.org/10.23637/ERADOC-1-182

61/Df/1.1

SUGAR BLET

Control of virus spread by insecticides - Fosters Corner 1961.

Design: 4 × 4 Latin square.

Area of each plot: 0.0560 acres. Area harvested: 0.0121 acres.

Treatments:

Unsprayed (0)

Granular systemic insecticide harrowed into seedbed at 40 lb (2 lb active ingredient) per acre (D);

Sprayed with demeton methyl at 12 fluid oz in 60 gallons per acre on June 14, 1961, after receipt of spray warning (M);

Foliar application at 30 lb (1½ lb active ingredient) per acre (F).

*0, 0-diethyl-S-2-(ethylthio) ethylphosphorodithioate.

Basal dressing per acre: 3 cwt agricultural salt and 6 cwt compound fertiliser (16% N, 9% P_2O_5 , 9% K_2O).

Cultivations, etc.: Ploughed: Sept 22, 1960. Salt applied: Feb 16, 1961. Ploughed 2nd time: Feb 17. Basal compound fertiliser applied: Mar 20. Granular systemic insecticide broadcast: Apr 11. Seed drilled at 9½ lb per acre: Apr 13. Singled: June 5. Lifted: Oct 23. Variety: Klein E. Previous crop: Spring wheat.

Note: Regular counts of aphids numbers and estimates of incidence of virus yellows were made.

Standard error per plot.

Roots (washed): 0.862 tons per acre or 5.3% (6 d.f.)
Total sugar: 3.03 cwt per acre or 5.7% (6 d.f.)

61/Df/1.2

Summary of Results

		Insecticide				
		0	D	M	F	Mean
	Ro	oots (wash	ned): tons p	er acre		
Mean (±0	.431)	15.92	17.13	16.11	16.11	16.32
Increase (±0	.610)		1.21	0.19	0.19	
		Suga	r percentag	e		
Mean		16.2	16.4	16.0	16.6	16.3
Increase	***		+0.2	-0.2	+0.4	
		Total sug	gar: cwt per	acre		
Mean (±1	.52)	51.6	56.3	51.6	53.5	53.2
Increase (±2	.14)		4.7	0.0	1.9	

Insecticide

0 = Unsprayed

D = Granular systemic insecticide harrowed into seedbed at 40 lb (2 lb active ingredient) per acre

M = Sprayed with demeton methyl at 12 fluid oz in 60 gallons per acre on June 14, 1961, after receipt of spray warning F = Foliar application at 30 lb $(1\frac{1}{2}$ lb active ingredient) per acre.

^{*0,0-}diethyl-S-2-(ethylthio)ethylphosphorodithioate.