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# Yields of the Field Experiments 1960



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## 60/R/CG/1 Sugar Beet - Control of Virus Spread (Sprays)

## **Rothamsted Research**

Rothamsted Research (1961) 60/R/CG/1 Sugar Beet - Control of Virus Spread (Sprays) ; Yields Of The Field Experiments 1960, pp 126 - 127 - DOI: https://doi.org/10.23637/ERADOC-1-180

60/0g/1.1

#### SUGAR BEET

Control of virus spread by insecticide spray - Fosters 1960.

Design: 4 × 4 Latin square.

Area of each plot: 0.0168 acres. Area harvested: 0.0084 acres.

Treatments.

Unsprayed (0);

- Sprayed when the crop was 0.3% infested with <u>Myzus persicae</u> (May 23, 1960) (E);
- Sprayed on receipt of spray warning on May 30, 1960 (2 plots per row or column) (N);

The spray used was demeton-methyl at 12 fluid oz in 60 gallons of water per acre.

<u>Note.</u> One treatment was to include a second spray, depending on the development of a sufficiently large aphid population; however, the population remained very small, and the spray was omitted.

- Basal dressing per acre: 5 cwt salt, 6 cwt compound fertiliser (16% N, 9% P<sub>2</sub>O<sub>5</sub>, 9% K<sub>2</sub>O).
- Cultivations, etc.: Ploughed: Jan 7, 1960. Salt applied: Feb 24. Basal compound fertiliser applied: Apr 2. Seed drilled at 19 lb per acre: Apr 7. Singled: May 25. Lifted: Nov 8. Variety: Klein E. Previous crop: Kale and mangolds in strips with small plots of potatoes.

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

Standard error per plot.

Total sugar: 5.90 cwt per acre or 8.4% (7 d.f.)

60/Cg/1.2

Spray				
	None	E	N	Mean
	Roots (was	hed): tons pe	r acre	
Mean	19.50	20.61	21.96	21.01
Increase		1.11	2.46	
Sugar percentage				
Mean	16.8	16.6	16.6	16.7
Increase		-0.2	-0.2	
Total sugar: cwt per acre				
Mean	65.4 (±2.95	68.6	73.2 (±2.09)	70.1 -
Increase		3.2 (±4.17)	7.8 (±3.61)	

## Summary of Results

### Sprays

0 = Unsprayed

E = Sprayed when the crop was 0.3% infested with <u>Myzus persicae</u> N = Sprayed on receipt of spray warning on May 30, 1960 (2 plots per row or column)