

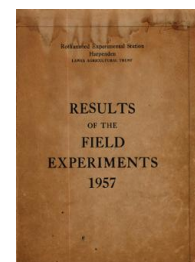
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1957

[Full Table of Content](#)



57/R/CE/2 Spring Beans - Control of Aphids (Insecticides)

Rothamsted Research

Rothamsted Research (1958) *57/R/CE/2 Spring Beans - Control of Aphids (Insecticides)* ; Yields Of The Field Experiments 1957, pp 91 - 91 - DOI: <https://doi.org/10.23637/ERADOC-1-177>

57/Ce/2

SPRING BEANS

The control of Aphids (*Aphis Fabae*) by insecticides applied as high and low volume sprays - Deacons Field 1957.

Design: 3 randomized blocks of 6 plots each, plots being split into 2 for high and low volume spraying.

Area of each sub plot: 0.0537 acres. Area harvested: 0.0179 acres.

Treatments. All combinations of:-

Insecticides:

- None - medium only. (0)
- Lindane at 6 oz active ingredient per acre. (1)
- Fluoroacetamide at 3 oz active ingredient per acre. (2)
- Methyl demeton at 6 oz active ingredient per acre. (3)
- Methyl demeton at 3 oz active ingredient per acre. (4)
- Malathion at 12 oz active ingredient per acre. (5)

Volume:

High - 60 gallons per acre; low - 10 gallons per acre.

Note: The spray medium used with all the insecticides was benzoyl-β-oxydiphenyl-poly glyco ether at 6 oz per acre.

Basal dressing: 300 lb compound fertilizer (10% P₂O₅, 20% K₂O) per acre placement drilled with seed.

Cultivations, etc.: Ploughed: Dec 5 - 13, 1956. Seed placement drilled at 190 lb per acre: Mar 18 - 21, 1957. Sprayed appropriate plots with insecticides: June 13. Combine harvested: Sept 3. Variety: Garton's Tick. Previous crop: Wheat.

Standard errors per plot, Grain (at 85% dry matter):

- Whole plot: 4.55 cwt per acre or 25.0% (10 d.f.)
- Sub plot: 1.91 cwt per acre or 10.5% (12 d.f.)

Note: Counts of aphids, at intervals after spraying, and assessments of early incidence of virus disease were made.

Summary of Results

Grain (at 85% dry matter): cwt per acre

Volume	Insecticides						Mean	
	0	1	2	3	4	5		
			(+2.73)*					
High	5.3	4.9	26.7	25.3	27.4	19.3	18.2	
Low	3.3	8.0	26.8	27.3	28.1	16.0	18.2	
Mean	(±2.62)	4.3	6.4	26.7	26.3	27.8	17.6	18.2
Difference	(±1.56)	-2.0	+3.1	+0.1	+2.0	+0.7	-3.3	0.0
							(±0.64)	

*For use in comparisons other than vertical.

Mean dry matter % as harvested: 76.6

170