

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 1953

[Full Table of Content](#)



53/CD/5 Beans - Control of Back Aphis

Rothamsted Research

Rothamsted Research (1954) *53/CD/5 Beans - Control of Back Aphis* ; Yields Of The Field Experiments 1953, pp 90 - 90 - DOI: <https://doi.org/10.23637/ERADOC-1-173>

53/ca/5

BEANS

Control of Black Aphis - Long Hoos V 1953.

System of replication: 8 randomized blocks of 2 plots each, arranged in 4 block pairs, the effect of sowing date being confounded with block differences.

Area of each plot: 0.0339 acre.

Treatments: All combinations of:

Sowing date (by blocks): Winter; Spring.

Insecticidal spray: None; Systox 0.1% active ingredient at 100 gallons per acre.

N.B. The experiment was originally designed to test a control and 4 sprays, but owing to the lack of aphids, it was decided to test Systox only.

Basal dressing: None.

Cultivations, etc.: Ploughed in winter beans at 340 lb per acre: Nov 13, 1952. Ploughed in spring beans at 320 lb per acre: Feb 23, 1953. Sprayed with Systox: June 8. Harvested: Sept 5. Variety: Winter - S.Q.Giant; Spring - Garton's Tick. Previous crop: Potatoes.

Standard error per plot:

Grain: 2.81 cwt per acre or 9.4% (6 d.f.)

Summary of Results

Spray	Sown		Mean
	Winter	Spring	
Grain: cwt per acre			
None	26.4	28.8	27.6
Systox	31.3	33.1	32.2
Mean	28.8	30.9	29.9
Difference (± 1.99)	+4.9	+4.3	+4.6 (± 1.41)
Straw: cwt per acre			
None	35.3	31.7	33.5
Systox	32.4	33.8	33.1
Mean	33.8	32.8	33.3
Difference	-2.9	+2.1	-0.4