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## Yields of the Field Experiments 1953

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### 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 ( $\pm 1.99$ )	+4.9	+4.3	+4.6 ( $\pm 1.41$ )
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