

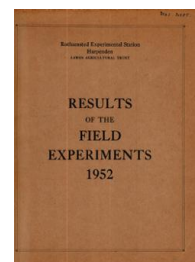
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52/CD/2 Spring Beans - Control of Back Aphis - Rothamsted

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Rothamsted Research (1953) *52/CD/2 Spring Beans - Control of Back Aphis - Rothamsted* ; Yields Of The Field Experiments 1952, pp 83 - 83 - DOI: <https://doi.org/10.23637/ERADOC-1-178>

52/Ca/2

SPRING BEANS

Control of Black Aphis - Great Harpenden II 1952.

System of replication: 2* randomized blocks of 7 plots each.

Area of each plot: 0.00831 acre.

Treatments - Insecticidal sprays at 300 gallons per acre.

- None. (O)
- Parathion, 0.02% technical W/V. (A)
- Pyrethrum, 0.05% W/V total pyrethrins. (B)
- DDT emulsion, 0.1% W/V DDT. (C)
- DDT suspension, 0.1% W/V DDT. (D)
- Systox, 0.05% W/V. (E)
- Nicotine, 0.1% V/V technical nicotine alkaloid. (F)

Basal dressing, per acre: 1½ cwt nitrochalk, 3 cwt superphosphate, 1½ cwt sulphate of potash.

Cultivations, etc.: Ploughed: Oct 30. 40 cwt ground chalk per acre applied: Mar 13. Basal fertilizers applied: Mar 15. Beans drilled at 4 bushels per acre: Mar 18. Spray treatments applied: June 12. Harvested: Aug 2. Variety: Ashwells selection. Previous crop: Oats.

Standard error per plot:

Grain: 4.50 cwt per acre or 49.7% (6 d.f.)

*Note. The experiment was originally designed as one of 4 blocks of 7, but as at spraying time 2 of the blocks carried a very poor crop these were not used in the experiment.

Summary of Results

	Spray							Mean
	O	A	B	C	D	E	F	
Grain: cwt per acre								
Mean (±3.19)	1.4	11.8	10.3	11.8	1.3	12.0	14.8	9.1
Increase (±4.50)		10.4	8.9	10.4	-0.1	10.6	13.4	
Straw: cwt per acre								
Mean	14.2	19.3	14.4	15.4	15.4	16.7	18.3	16.2
Increase		5.1	0.2	1.2	1.2	2.5	4.1	