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

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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: $1\frac{1}{2}$ cwt nitrochalk, 3 cwt superphosphate,
 $1\frac{1}{2}$ 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							
	O	A	B	C	D	E	F	Mean
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	