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Yields of the Field Experiments 1954

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54/R/CC/2 Beans - Control of Back Aphis

Rothamsted Research

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54/Cc/2.1

BEANS

Control of Black Aphis - Little Hoos 1954.

System of replication: 4 pairs of randomized blocks of 5 plots each.

Area of each plot: 0.0361 acre.

Treatments:

Blocks. Time of sowing: Autumn (A); Spring (S).

Plots. Insecticidal sprays 80 gallons per acre: None (1);

Systox (0.05% active ingredient) applied three times (2);

Systox applied once (3); D.D.T. emulsion (0.2% active ingredient)

applied four times (4); D.D.T. suspension (0.2% active

ingredient) applied once (5).

Basal dressing: 5 cwt compound fertilizer (16% P_2O_5 , 16% K_2O) per acre.

Cultivations, etc.: Ploughed: Sept 23, 1953. Basal dressing applied on all blocks, beans drilled at 280 lb per acre on 'A' blocks: Oct 20. Ploughed 'S' blocks: Dec 15. Beans drilled at 190 lb per acre on 'S' blocks: Mar 12, 1954. Harvested: 'A' blocks - Sept 9, 'S' blocks - Sept 20. Varieties: Autumn sown - P/L 14, Spring sown - Garton's Yearling.

Sprayings:	(2)	(3)	(4)	(5)
	June 4	June 21	June 4	June 21
	June 21		June 21	
	July 17		July 3	
			July 18	

Standard error per plot:

Grain: 3.36 cwt per acre or 14.3% (24 d.f.).

Note: Aphis counts were made and are available.

54/Cc/2.2

Summary of Results

Time of Sowing	Insecticides					Mean
	1	2	3	4	5	
Grain: cwt per acre						
			(±1.68) ^{**}			
Autumn	11.8	27.5	28.8	15.3	12.9	19.3
Spring	16.8	37.5	35.5	23.9	25.2	27.8
Mean (±1.19)	14.3	32.5	32.1	19.6	19.0	23.5
Difference (±2.38) ^{**}	5.0	10.0	6.7	8.6	12.3	8.5
Straw: cwt per acre						
Autumn	19.7	27.5	29.1	22.6	23.6	24.5
Spring	23.4	39.8	36.9	28.1	28.9	31.4
Mean	21.5	33.7	33.0	25.4	26.2	28.0
Difference	3.7	12.3	7.8	5.5	5.3	6.9

^{**}For use in horizontal comparisons only.

^{**}For use in comparison of two differences only.

Insecticides

- 1 None
- 2 Systox applied three times
- 3 Systox applied once
- 4 D.D.T.emulsion applied four times
- 5 D.D.T.suspension applied once.