

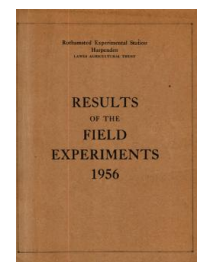
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56/R/CD/1 Spring Beans - Control of Aphids (Spraying and Times of Sowing)

Rothamsted Research

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56/Cd/1

SPRING BEANS

The control of Aphids (Aphis Fabae) by time of sowing and spraying - Great Knott I 1956.

Design: 4 x 4 Latin square, plots being split into 4 for the application of sprays.

Area of each sub plot: 0.0194 acres. Area harvested: 1st sowing, 0.0097; later sowings, 0.0194 acres.

Treatments. All combinations of:-

Whole plots. Times of sowing: Mar 10 (A); Apr 3 (B); Apr 24 (C); May 15 (D).

Sub plots. Spray: None; June 22; July 11; June 22 and July 11.

The insecticide spray was Metasystox, 12 oz. in 80 gallons per acre.

Basal dressing: 7 cwt compound granular fertilizer (10% P₂O₅, 20% K₂O) per acre.

Cultivations, etc.: Ploughed: Nov 26, 1955 and Jan 18, 1956. Basal fertilizer applied: Mar 6. Seed drilled at 200 lb per acre: Mar 10, Apr 3, Apr 24, May 15. Sprayed with miscible DDT: June 2. Sprayed with Metasystox, early application: June 22. Late spray application: July 11. Combine harvested: A - Oct 5; B & C - Oct 15; D - Oct 29. Variety: Spring Tick. Previous crop: Barley.

Standard errors per plot. Grain (at 85% dry matter):

Whole plot: 1.08 cwt per acre or 4.8% (6 d.f.)

Sub plot: 1.24 cwt per acre or 5.4% (36 d.f.)

Note: Counts of aphids were made at weekly intervals from early June to end of September: the infestation was very light on all plots.

Summary of Results

Grain (at 85% dry matter): cwt per acre

Time of Spraying	Time of Sowing				Mean
	Mar 10	Apr 3	Apr 24	May 15	
	(1) & (2)				(± 0.31)
None	26.7	26.9	20.9	13.7	22.1
June 22	28.5	29.5	21.6	13.9	23.4
July 11	27.6	28.9	22.1	12.9	22.9
June 22 and July 11	26.1	28.3	20.7	14.7	22.4
Mean (±0.54)	27.2	28.4	21.3	13.8	22.7
(1) ±0.62 for use in vertical and interaction comparisons.					
(2) ±0.76 for use in horizontal and diagonal comparisons.					
Mean dry matter % as harvested	72.3	70.9	54.6	43.1	60.2