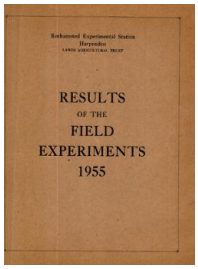
ROTHAMSTED RESEARCH

Yields of the Field Experiments 1955

Full Table of Content



55/R/CC/1 Spring Beans - Control of Aphids (Spraying and Times of Sowing)

Rothamsted Research

Rothamsted Research (1956) *55/R/CC/1 Spring Beans - Control of Aphids (Spraying and Times of Sowing) ;* Yields Of The Field Experiments 1955, pp 88 - 88 **- DOI: https://doi.org/10.23637/ERADOC-1-175**

55/Cc/1

SPRING BEANS

The control of Black Aphids (Aphis Fabae) by spraying and time of sowing - Fosters 1955.

Design: 4 × 4 Latin square, plots split into 2 for the application of spray.

Area of each sub plot: 0.0189 acre.

Treatments: All combinations of:-
Whole plots. Times of sowing: Mar 19; April 6; April 25; May 13.
Sub plots. Spray: None; "Metasystox" (0.05% active ingredient) at 100 gallons per acre.

Note: The beans sown on May 13 were sprayed twice.

Basal dressing: 6 cwt compound granular fertilizer (10% P_2O_5, 20% K_2O) per acre.

Cultivations, etc.: Ploughed: Oct 22, 1954. Basal fertilizer applied, seed drilled at 195 lb per acre: Mar 19, 1955, April 6, April 25, May 13 respectively. Sprayed with "Metasystox": June 23. Last sown crop sprayed with "Metasystox" for second time: July 22. Combine harvested first three sowings: Aug 27. Combine harvested last sowing: Sept 12. Variety: Garton's Tick. Previous crop: Barley.

Standard errors per plot. Grain (at 85% dry matter):
Whole plot: 1.49 cwt per acre or 12.0% (6 d.f.)
Sub plot: 1.54 cwt per acre or 12.4% (12 d.f.)

Counts of Black Aphids and of aphis predators were made at weekly intervals from June to August.

Summary of Results

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

Spray	Time of sowing Mar 19	Apr 6	Apr 25	May 13	Mean
		(±0.92)*			
None	16.9	13.1	6.7	2.4	9.8
Metasystox	19.2	18.3	12.0	10.5	15.0
Mean (±0.74)	18.0	15.7	9.3	6.4	12.4
Difference (±1.09)	2.3	5.2	5.3	8.1	5.2 (±0.54)

* for use in comparisons other than vertical.

Mean dry matter % as harvested: 82.4.

https://doi.org/10.23637/ERADOC-1-175