

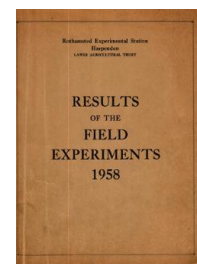
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## Yields of the Field Experiments 1958

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### 58/R/CE/1 Spring Beans - Control of Aphids (Seed Rates and Spraying)

#### Rothamsted Research

Rothamsted Research (1959) *58/R/CE/1 Spring Beans - Control of Aphids (Seed Rates and Spraying)* ; Yields Of The Field Experiments 1958, pp 106 - 106 - DOI:  
<https://doi.org/10.23637/ERADOC-1-181>

58/Ce/1

SPRING BEANS

Effect of seed rates and spraying on aphids (Aphis fabae)-  
Great Knott III 1958.

Design: 4 randomized blocks of 6 plots each, plots being split into 2 for the application of spray.

Area of each sub plot: 0.0354 acres. Area harvested: 0.0126 acres.

Treatments. All combinations of:-

Seed rate, lb per acre: 50; 100; 200; 300; 400; 800.

Spray: None; demeton-methyl (new formulation) at 6 fluid oz of 50% active ingredient in 60 gallons per acre.

Basal dressing: 400 lb compound fertilizer (10% P<sub>2</sub>O<sub>5</sub>, 20% K<sub>2</sub>O) per acre placement drilled with seed.

Cultivations, etc.: Ploughed: Oct 28, 1957. Seed placement drilled with basal fertilizer: Mar 18, 1958. Appropriate plots sprayed with demeton-methyl: June 18. Combine harvested: Oct 7. Variety: Spring Tick. Previous crop: Spring wheat.

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

Whole plot: 2.75 cwt per acre or 10.8% (15 d.f.)

Sub plot: 1.69 cwt per acre or 6.6% (18 d.f.)

Note. Counts of aphids at intervals after spraying, plant numbers, and assessments of early incidence of virus diseases were made.

Summary of Results

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

Spray	Seed rate: lb per acre						Mean
	50	100	200	300	400	800	
	(±1.50)*						
None	16.6	24.2	27.9	27.9	26.2	20.5	23.9
Demeton-methyl	24.1	31.2	32.3	29.8	25.1	21.3	27.3
Mean (±1.38)	20.3	27.7	30.1	28.9	25.6	20.9	25.5
Diff.(±1.20)	+7.5	+7.0	+4.4	+1.9	-1.1	+0.8	+3.4 (±0.49)

\* for use in horizontal and diagonal comparisons.

Mean dry matter % as harvested: 70.8