

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1958

[Full Table of Content](#)



### 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