

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 1959

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1960) *59/R/CE/1 Spring Beans - Control of Aphids (Seed Rates and Spraying)* ; Yields Of The Field Experiments 1959, pp 85 - 86 - DOI:
<https://doi.org/10.23637/ERADOC-1-179>

Summary of Results

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

		Seed rate: lb per acre						
50	100	200	300	400	600	600*	Mean	
<u>Sprayed with demeton-methyl</u>								
12.4	17.7	19.8	21.6	23.5	22.5	23.9	20.2	
(±0.66)								
<u>Unsprayed</u>								
3.0	1.6	2.0	3.4	3.0	5.9	9.2	4.0	

Mean dry matter % as harvested:

Sprayed plots: 81.5
 Unsprayed plots: 76.2**

* at 11 inch row spacing, remainder at 22 inch.

** estimated from combine harvested plots only.

59/Ce/2.1

SPRING BEANS

Control of weeds (Triazine sprays) - Rothamsted (R) Great Knott I and Woburn (W) Broad Mead I 1959.

Design: Great Knott I (R); 3 randomized blocks of 6 plots each.
Broad Mead I (W): 3 randomized blocks of 5 plots each.

Area of each plot (both fields): 0.0318 acres. Area harvested:
0.0139 acres.

Treatments: Pre-emergence sprays:- None: Great Knott I (R) - two plots per block, Broad Mead I (W) - one plot per block.

2-chloro-4-6-bis-ethylamino-s-triazine (Simazine)(S):

at 1 lb in 40 gallons per acre (1);
2 lb in 80 gallons per acre (2); 50% active
3 lb in 120 gallons per acre (3); material

2-chloro-4-ethylamino-6-isopropylamino-s-triazine (Atrazine):

at 2 lb in 80 gallons per acre (A2)

Basal dressing: 5 cwt compound fertilizer (10% P₂O₅, 20% K₂O) per acre placement drilled with seed.

Cultivations, etc.:

Great Knott I (R): Ploughed: Sept 22 - Oct 28, 1958. Seed placement drilled at 200 lb per acre, with basal fertilizer:

Mar 17, 1959. Weedkillers applied: Mar 26. Sprayed with demeton-methyl at 12 fluid oz of 50% active ingredients in 40 gallons per acre: June 2. Combine harvested: Aug 24.

Variety: Spring Tick. Previous crop: Winter wheat.

Broad Mead I (W): Ploughed: Feb 13 - 17, 1959. Seed placement drilled at 200 lb per acre, with basal fertilizer: Feb 27.

Weedkillers applied: Mar 14. Combine harvested: Aug 6.

Variety: Spring Tick. Previous crop: Spring wheat.

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

Great Knott I (R): 2.04 cwt per acre or 10.9% (11 d.f.)

Broad Mead I (W): 1.60 cwt per acre or 9.9% (8 d.f.)

Note: Weed counts were made early in the growing period. Observations were made on winter beans sprayed after emergence with the same materials.