ROTHAMSTED RESEARCH

Yields of the Field Experiments 1959

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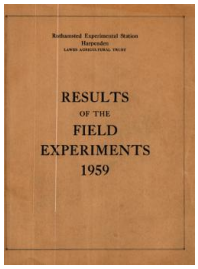

59/R/CE/1 Spring Beans - Control of Aphids (Seed Rates and Spraying)

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**

59/Ce/1.2

Summary of Results

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

Seed rate: lb per acre							
50	100	200	300	400	600	600*	Mean
Sprayed with demeton-methyl							
12.4	17.7	19.8	21.6 (±0.66)	23.5	22.5	23.9	20.2
Unsprayed							
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.

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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);
3 lb in 120 gallons per acre (3);
50% active 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% P_2O_5, 20% K_2O) 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.

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