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Yields of the Field Experiments 1959

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59/R/CE/2 and 59/W/CE/2 Spring Beans - Control of Weeds (Sprays)

Rothamsted Research

Rothamsted Research (1960) *59/R/CE/2 and 59/W/CE/2 Spring Beans - Control of Weeds (Sprays)* ;
Yields Of The Field Experiments 1959, pp 87 - 88 - DOI: <https://doi.org/10.23637/ERADOC-1-179>

59/Ce/2.2

Summary of Results

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

| | None | S ₁ | Spray S ₂ | S ₃ | A ₂ | Mean |
|--------------------------|---------------------|----------------|-------------------------|----------------|----------------|------|
| <u>Great Knott I (R)</u> | | | | | | |
| Mean (±1.18) | 17.9 ⁽¹⁾ | 21.1 | 19.6 | 18.5 | 17.7 | 18.8 |
| Increase (±1.44) | | +3.2 | +1.7 | +0.6 | -0.2 | |
| <u>Broad Mead I (W)</u> | | | | | | |
| Mean (±0.93) | 13.5 | 17.3 | 19.1 | 16.0 | 15.2 | 16.2 |
| Increase (±1.31) | | +3.8 | +5.6 | +2.5 | +1.7 | |

(1) ±0.83

Sprays

S = Simazine
A = Atrazine

Levels

1 = 1 lb in 40 gallons per acre
2 = 2 lb in 80 gallons per acre
3 = 3 lb in 120 gallons per acre

50% active material

59/Ce/3.1

BEANS

Time of sowing, spraying, P and K - Rothamsted (R) Great Knott III and Woburn (W) Mill Dam Close 1959.

Design: 3 blocks of 4 whole plots each, plots being split into 3 for P and K with spraying on pairs of whole plots, time of sowing on whole plots, and PK partially confounded.

Area of each sub plot: 0.0337 acres. Area harvested: 0.0105 acres.

Treatments. All combinations of:-

Time of sowing: Autumn; spring.

Spray: None; demeton-methyl at 12 fluid oz (50% active ingredients) in 60 gallons per acre.

Phosphate: None; 0.5; 1.0 cwt P_2O_5 per acre as superphosphate.

Potash: None; 1.0; 2.0 cwt K_2O per acre as muriate of potash.

*Note: 40 gallons at Woburn.

Basal dressing: None.

Cultivations, etc.:

Great Knott III (R): Ploughed: Sept 20 - Oct 17, 1958. Fertilizers applied for autumn beans: Oct 23. Seed drilled at 275 lb per acre: Oct 24. Fertilizers applied for spring beans: Feb 17, 1959. Seed drilled at 200 lb per acre: Feb 21. Appropriate plots sprayed with demeton-methyl: June 2. Combine harvested: Aug 7. Variety: Winter beans - S.Q.Giant, spring beans - Granton. Previous crop: Spring wheat and barley.

Mill Dam Close (W): Ploughed: Sept 23 - Oct 20, 1958. Seed drilled at 275 lb per acre, fertilizers applied for autumn beans: Oct 22. Fertilizers applied for spring beans, seed drilled at 275 lb per acre: Feb 26, 1959. Appropriate plots sprayed with demeton-methyl: May 30. Combine harvested: Aug 6 - 22. Variety: Winter beans - S.Q.Giant, spring beans - Granton. Previous crop: Spring wheat.

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

Great Knott III (R)

Whole plot: 2.04 cwt per acre or 9.3% (4 d.f.)

Sub plot: 1.63 cwt per acre or 7.4% (12 d.f.)

Mill Dam Close (W)

Whole plot: 2.83 cwt per acre or 11.5% (4 d.f.)

Sub plot: 5.04 cwt per acre or 17.4% (12 d.f.)