

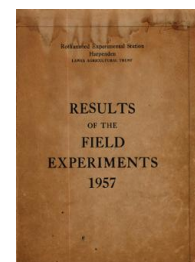
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Yields of the Field Experiments 1957

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57/R/CE/2 Spring Beans - Control of Aphids (Insecticides)

Rothamsted Research

Rothamsted Research (1958) *57/R/CE/2 Spring Beans - Control of Aphids (Insecticides)* ; Yields Of The Field Experiments 1957, pp 91 - 91 - DOI: <https://doi.org/10.23637/ERADOC-1-177>

57/Ce/2

SPRING BEANS

The control of Aphids (*Aphis Fabae*) by insecticides applied as high and low volume sprays - Deacons Field 1957.

Design: 3 randomized blocks of 6 plots each, plots being split into 2 for high and low volume spraying.

Area of each sub plot: 0.0537 acres. Area harvested: 0.0179 acres.

Treatments. All combinations of:-

Insecticides:

- None - medium only. (0)
- Lindane at 6 oz active ingredient per acre. (1)
- Fluoroacetamide at 3 oz active ingredient per acre. (2)
- Methyl demeton at 6 oz active ingredient per acre. (3)
- Methyl demeton at 3 oz active ingredient per acre. (4)
- Malathion at 12 oz active ingredient per acre. (5)

Volume:

High - 60 gallons per acre; low - 10 gallons per acre.

Note: The spray medium used with all the insecticides was benzoyl-β-oxydiphenyl-poly glyco ether at 6 oz per acre.

Basal dressing: 300 lb compound fertilizer (10% P₂O₅, 20% K₂O) per acre placement drilled with seed.

Cultivations, etc.: Ploughed: Dec 5 - 13, 1956. Seed placement drilled at 190 lb per acre: Mar 18 - 21, 1957. Sprayed appropriate plots with insecticides: June 13. Combine harvested: Sept 3. Variety: Garton's Tick. Previous crop: Wheat.

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

- Whole plot: 4.55 cwt per acre or 25.0% (10 d.f.)
- Sub plot: 1.91 cwt per acre or 10.5% (12 d.f.)

Note: Counts of aphids, at intervals after spraying, and assessments of early incidence of virus disease were made.

Summary of Results

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

| Volume | Insecticides | | | | | | Mean | |
|------------|--------------|------|----------|------|------|------|------|---------|
| | 0 | 1 | 2 | 3 | 4 | 5 | | |
| | | | (+2.73)* | | | | | |
| High | 5.3 | 4.9 | 26.7 | 25.3 | 27.4 | 19.3 | 18.2 | |
| Low | 3.3 | 8.0 | 26.8 | 27.3 | 28.1 | 16.0 | 18.2 | |
| Mean | (±2.62) | 4.3 | 6.4 | 26.7 | 26.3 | 27.8 | 17.6 | 18.2 |
| Difference | (±1.56) | -2.0 | +3.1 | +0.1 | +2.0 | +0.7 | -3.3 | 0.0 |
| | | | | | | | | (±0.64) |

*For use in comparisons other than vertical.

Mean dry matter % as harvested: 76.6

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