

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 1949

[Full Table of Content](#)



49/CA/3 Wheat - Wireworm 1

49/CA/3 *Wheat - Wireworm 1*, Rothamsted Research (1950) Yields Of The Field Experiments 1949, pp 70 - 70

49/Ga/3

WHEAT

Wireworm Experiment (1)

The residual effects of various insecticides, and their methods of application.

RW - Little Hoos 1949

System of replication: 3 randomized blocks of 9 plots each.

Area of each plot: 0.0289 acre.

Treatments - applied 1948.

None

D.D. injected 400 lb per acre

Ethylene Dibromide 4.1% solution, injected 15 gallons per acre

D.D.T. dust combine drilled $\frac{3}{4}$ cwt per acre

Gammexane; broadcast 2 cwt per acre, combine drilled $\frac{3}{4}$ cwt per acre, or applied as seed dusting.

Basal manuring: $2\frac{1}{2}$ cwt. per acre sulphate of ammonia as top dressing, 1 cwt per acre superphosphate.

Cultivations, etc.: Floughed: Sept 27-29. Springtined: Oct 22. Harrowed: Oct 28. Seed drilled with superphosphate, harrowed in: Oct 30. Ring rolled: Apr 19. Sulphate of ammonia applied: Apr 26. Harvested: July 28. Variety: Bercse. Previous crop: Wheat.

Standard errors per plot:

Grain, 2.30 cwt per acre or 7.19% (18 d.f.)

Straw, 2.66 cwt per acre or 7.23% (18 d.f.)

| | Un-treated | DD In-jected | Ethylene Dibromide Injected | DDT Dust Drilled | Broad-cast | Gammexane Drilled | Dusted seed | Mean |
|---------------------------|---------------------|--------------|-----------------------------|------------------|------------|-------------------|-------------|------|
| Grain: cwt per acre | | | | | | | | |
| Mean Yield (± 1.33) | 28.4 ⁽¹⁾ | 31.8 | 34.1 | 36.4 | 39.6 | 37.3 | 24.2 | 32.1 |
| Increase (± 1.54) | | 3.4 | 5.7 | 8.0 | 11.2 | 8.9 | -4.2 | |
| Straw: cwt per acre | | | | | | | | |
| Mean Yield (± 1.54) | 33.5 ⁽²⁾ | 35.8 | 37.4 | 41.5 | 46.1 | 42.2 | 28.5 | 36.9 |
| Increase (± 1.77) | | 2.3 | 3.9 | 8.0 | 12.6 | 8.7 | -5.0 | |

Standard errors (1) ± 0.77
 (2) ± 0.89