

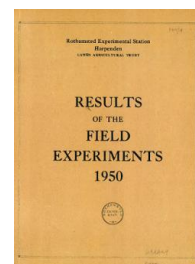
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## Yields of the Field Experiments 1950

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### 50/CA/3 Wheat - Wireworm 1 - Rothamsted

#### Rothamsted Research

Rothamsted Research (1951) *50/CA/3 Wheat - Wireworm 1 - Rothamsted* ; Yields Of The Field Experiments 1950, pp 59 - 59 - DOI: <https://doi.org/10.23637/ERADOC-1-185>

## WHEAT

50/Ca/3

## Wireworm Experiment (1)

Residual effects of insecticides - Little Hoose 1950.

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

Area of each plot: 0.0269 acre.

Treatments - applied 1948.

None

D.D. injected 400 lb per acre.

Ethylene Dibromide 41% 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; applied as seed dressing.Basal Manuring:  $1\frac{1}{2}$  cwt superphosphate per acre combine drilled;  
 $2\frac{1}{2}$  cwt sulphate of ammonia per acre as top dressing.

Cultivations, etc.: Ploughed: Oct 13-17. Springtined, seed and superphosphate drilled, harrowed in: Oct 31 - Nov 1. Harrowed: Mar 31. Rolled: Apr 3. Sulphate of ammonia applied: May 3. Sprayed with D.N.O.C.: May 11. Harvested: Aug 10. Variety: Squareheads Master 13/4. Previous crop: Wheat.

Standard errors per plot:

Grain: 2.16 cwt per acre or 13.6% (18 d.f.)

Straw: 3.26 cwt per acre or 12.9% (18 d.f.)

Summary of Results

|                     | Treatments applied in 1948 |               |                             |                     |            |                   |             | Mean |
|---------------------|----------------------------|---------------|-----------------------------|---------------------|------------|-------------------|-------------|------|
|                     | Un-treated                 | D.D In-jected | Ethylene Dibromide Injected | D.D.T. Dust Drilled | Broad-cast | Gammexane Drilled | Dusted seed |      |
| Grain: cwt per acre |                            |               |                             |                     |            |                   |             |      |
| Mean                | 15.5 <sup>(1)</sup>        | 16.9          | 18.8                        | 18.0                | 16.1       | 15.0              | 11.7        | 15.9 |
| (±1.25)             |                            |               |                             |                     |            |                   |             |      |
| Increase            |                            | 1.4           | 3.3                         | 2.5                 | 0.6        | -0.5              | -3.8        |      |
| (±1.44)             |                            |               |                             |                     |            |                   |             |      |
| Straw: cwt per acre |                            |               |                             |                     |            |                   |             |      |
| Mean                | 25.0 <sup>(2)</sup>        | 27.0          | 27.8                        | 27.4                | 25.8       | 23.0              | 20.9        | 25.2 |
| (±1.88)             |                            |               |                             |                     |            |                   |             |      |
| Increase            |                            | 2.0           | 2.8                         | 2.1                 | 0.8        | -2.0              | -4.1        |      |
| (±2.17)             |                            |               |                             |                     |            |                   |             |      |

Standard errors (1)  $\pm 0.72$ (2)  $\pm 1.09$ Note: Wireworm counts were made on all plots and are available.