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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  $13\frac{1}{4}$ . 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) ±0.72  
 (2) ±1.09

Note: Wireworm counts were made on all plots and are available.