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Yields of the Field Experiments 1948

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48/CA/3 Wheat - Wireworm 1

Rothamsted Research

Rothamsted Research (1949) *48/CA/3 Wheat - Wireworm 1* ; Yields Of The Field Experiments 1948, pp 65 - 65

48/Ca/3

WHEAT

Wireworm Experiment (1)

The effect of various insecticides, and their methods of application.

RW - Little Hoos 1948

System of replication: 3 randomized blocks of 9 plots each

Area of each plot: 0.0289 acre

Treatments:

None

D.D. injected 400 lbs per acre.

Ethylene Dibromide 4.1% solution injected 15 gallons per acre.

D.D.T. dust combine drilled $\frac{5}{4}$ cwt per acre.

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

Basal manuring: $2\frac{3}{4}$ cwt per acre sulphate of ammonia.

Cultivations etc.: Floughed: Sept 16-27. Harrowed and rolled: Oct 7.

DD and Ethylene Dibromide injected: Oct 10. Seed drilled, and remaining

treatments applied: Oct 29-30. Harrowed in: Oct 30. Harrowed: Mar 30.

Ring rolled: Apr 1. Sulphate of ammonia drilled: May 5. Hand weeded:

June 5, 7-8, 22-23, and various days June 28 - July 23. Harvested:

Aug 17. Variety: Bersee. Previous crop: Linseed.

Standard errors per plot:

Grain, 2.62 cwt per acre or 12.6% (18 d.f.)

Straw, 6.37 cwt per acre or 13.5% (18 d.f.)

	Un- treated	DD In- jected	Ethylene Dibromide Injected	DDT Dust Drilled	Gammexane Broad- cast	Gammexane Drilled	Treated seed	Mean
Grain: cwt. per acre								
Mean Yield (± 1.51)	8.9 ⁽¹⁾	28.3	32.1	20.7	30.6	24.8	24.0	20.8
Increase (± 1.74)		19.4	23.2	11.8	21.7	15.9	15.1	
Straw: cwt. per acre								
Mean Yield (± 3.68)	22.8 ⁽²⁾	64.1	71.6	46.0	65.9	54.2	54.6	47.2
Increase (± 4.25)		41.3	48.8	23.2	43.1	31.4	31.8	

Standard errors (1) ± 0.87
 (2) ± 2.12