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Yields of the Field Experiments 1951

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51/CA/2 Wheat - Control Wireworm 1 - Rothamsted

Rothamsted Research

Rothamsted Research (1952) *51/CA/2 Wheat - Control Wireworm 1 - Rothamsted* ; Yields Of The Field Experiments 1951, pp 61 - 62 - DOI: <https://doi.org/10.23637/ERADOC-1-171>

51/Ca/2.1

WHEAT

Wireworm Experiment 1

Residual and direct effects of insecticides- Little Hoos 1951

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

Area of each plot: 0.0289 acre.

Treatments:

None from 1948 onwards (duplicate plots).

Applied 1948. 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; Gammexane combine drilled, $\frac{3}{4}$ cwt per acre.

Applied 1951. Chlordane, 100 lb (5%); Gammexane, 56 lb per acre, both combine drilled.

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

Cultivations, etc: Ploughed: Sept 4. Basal phosphate and potash

drilled: Oct 26. Seed combine drilled at 3 bushels per acre

with insecticides: Oct 27. Sprayed with D.N.O.C.: May 15.

Basal sulphate of ammonia drilled: May 25. Harvested: Aug 23.

Variety: Nord Desprez. Previous crop: Wheat.

Standard error per plot:

Grain: 2.05 cwt per acre or 12.1% (17 d.f.)

51/Ca/2.2

Summary of Results

	Treatments applied in 1948		Treatments applied in 1948		Treatments applied in 1951		Mean		
	Untreated from 1948 onwards	D.D. Injected	Ethylene Dibromide Injected	D.D.F. Dust Drilled	Broad-cast	Gammexane Drilled		Chlordane Drilled	
Mean	14.7 ⁽¹⁾	15.6	15.5	20.3	17.2	16.5	18.2	20.1	17.0
Increase		0.9	0.8	5.6	2.5	1.8	3.5	5.4	
				Grain: cwt per acre					
Mean	16.3	17.8	17.8	20.1	18.9	18.0	19.4	20.6	18.3
Increase		1.5	1.5	3.8	2.6	1.7	3.1	4.3	
				Straw: cwt per acre					
Mean	1056	-	-	-	-	-	1072	1248	1108
Increase		-	-	-	-	-	16	192	
				Plant number: thousands per acre					
Mean	12.6	-	-	-	-	-	12.5	14.8	13.1
Increase		-	-	-	-	-	-0.1	2.2	
				Plant height: cms. June 11					
				Standard error (1) ±0.84					

Dashes indicate that no counts were taken.