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Yields of the Field Experiments 1951

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51/CA/3 Wheat - Control of Wireworm 2 - Rothamsted

Rothamsted Research

Rothamsted Research (1952) *51/CA/3 Wheat - Control of Wireworm 2 - Rothamsted* ; Yields Of The Field Experiments 1951, pp 63 - 64 - DOI: <https://doi.org/10.23637/ERADOC-1-171>

51/Ca/3.1

WHEAT

Wireworm Experiment 2

Residual and direct effects of insecticides - Little Hoos 1951.

System of replication: 3 incomplete randomized blocks of 6 plots each.

Area of each plot: 0.0289 acre.

Treatments:

None from 1948 onwards (duplicate plots).

Applied 1948. Gammexane combine drilled with seed: $\frac{1}{4}$; $\frac{1}{2}$;
1 cwt per acre.

Applied 1951. Aldrin $2\frac{1}{2}\%$, 200 lb per acre; Gammexane, 56 lb per
acre, both combine drilled with seed.

Basal manuring: 2 cwt superphosphate and 1 cwt sulphate of potash
per acre; $2\frac{1}{2}$ cwt sulphate of ammonia per acre 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: 0.787 cwt per acre or 3.6% (10 d.f.)

Summary of Results

	Treatments applied 1948		Treatments applied 1951		Mean
	Untreated from 1948 onwards	Gammexane drilled 1/4 cwt per acre 1/2 cwt per acre 1 cwt per acre	Aldrin 2 1/2% Drilled 200 lb per acre 56 lb per acre	Gammexane Drilled 200 lb per acre 56 lb per acre	
Mean	(±0.32) 19.8	Grain: cwt per acre (±0.58) 19.5 19.9 20.6	(±0.45) 26.2	(±0.45) 25.7	21.9
Increase		0.1 0.8 (±0.66)	6.4	5.9	
Mean	20.6	Straw: cwt per acre 19.7 19.9 20.2	24.4	24.5	21.7
Increase		-0.7 -0.4	3.8	3.9	
Mean	1003	Plant number: thousands per acre 1950 862 870	1162	1178	1022
Increase		-53 -141	159	175	
Mean	14.3	Plant height: cms. June 11 13.8 14.3 12.8	15.6	15.6	14.5
Increase		-0.5 -1.5	1.3	1.3	