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Yields of the Field Experiments 1954

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54/R/CA/4 Wheat - Control Wireworm

Rothamsted Research

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54/Ca/4.

WHEAT

The residual effects of insecticides on the control of wireworm,
3rd year - Geescroft 1954.

System of replication: 3 randomized blocks of 8 plots each.

Area of each plot: 0.0289 acre. Area harvested: 0.0205 acre.

Treatments, applied autumn 1951 for wheat:

None (three plots per block)									(O)	
Gammexane seed dressing 2 oz per bushel									(S)	
Gammexane combine drilled with seed at	56 lb per acre	3.5%	dust						(G)	
Aldrin	"	"	"	"	"	200 lb	"	"	1.78%	(A)
Chlordane	"	"	"	"	"	100 lb	"	"	5%	(C)
D.D.T.	"	"	"	"	"	150 lb	"	"	5%	(D)

Basal dressing, per acre: $\frac{1}{4}$ cwt compound granular fertilizer (12% N, 12% P_2O_5 , 15% K_2O) combine drilled with seed. $2\frac{1}{2}$ cwt sulphate of ammonia in spring.

Cultivations, etc.: Ploughed: Sept 23, 1953. Seed treated with mercurial seed dressing, combine drilled at $2\frac{1}{2}$ bushels per acre: Nov 5. Sulphate of ammonia applied: Apr 30, 1954. Sprayed with M.C.P.A. high volume, 2 pints per acre: May 24. Combine harvested: Sept 7. Variety: Cappelle. Previous crop: Wheat.

Standard error per plot:

Grain (at 85% D.M.): 1.79 cwt per acre or 6.1% (16 d.f.)

Summary of Results

	O	S	G	A	C	D	Mean
Grain (at 85% dry matter): cwt per acre							
Mean (± 1.03)	27.2 ⁽¹⁾	29.4	32.9	31.0	29.7	29.2	29.2
Increase (± 1.19)		2.2	5.7	3.8	2.5	2.0	
(1) ± 0.60	Mean dry matter % as harvested: 74.9.						

Note: Wireworm counts were made and are available.