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65/R/BB/C/11 Chemical Control of Wireworm - Spring Wheat

Rothamsted Research

Rothamsted Research (1966) *65/R/BB/C/11 Chemical Control of Wireworm - Spring Wheat* ; Yields Of The Field Experiments 1965, pp 151 - 152 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/C/11.1

CHEMICAL CONTROL OF WIREWORMS

(BB)

New Zealand 1965, the second year - spring wheat.

Design: Main experiment: 4 randomised blocks of 11 plots.
Subsidiary experiment: 4 blocks of 4 plots each plot being 1/4 of one of the 1964 plots.

	Main	Subsidiary
Area of each whole plot:	0.0193	0.0048
Area harvested:	0.0129	0.0024.

Treatments:

Main experiment: Residual effects of sprays and seed dressings applied in 1964 (see 'Results' 64/C/12.1).

Subsidiary experiment: One plot per block which received no treatment in 1964, was divided into 4 for a comparison of insecticide treatments - None (0), 1.5 lb zinophos* (Cs), 1.5 lb 'Sumthion'* (Ds), 1.5 lb 'Stauffer N 2790' as 4% granules (HG).

* In 200 gals.

Basal applications: 2.5 cwt (20:10:10) combine drilled, seed dressed with organo-mercury fungicide only. Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals).

Cultivations, etc.: Ploughed: Oct 26, 1964. Rotary cultivated: Mar 29, 1965. Insecticide sprays applied: Mar 30. Rotary cultivated second time: Mar 31. Seed drilled at 124 lb: Apr 2. Sprayed, weedkiller: May 19. Main experiment combine harvested: Sept 20. Subsidiary experiment hand harvested: Sept 21. Variety: July I.

NOTES: (1) Soil samples were taken throughout the season from the sub-plots for determining the persistence of insecticides. Soil samples were taken and pitfall traps were used to discover the effects of insecticides on soil fauna.

(2) For the previous year's results see 'Results' 64/C/12.

Standard error per plot. Grain:
Main experiment: 2.00 or 6.7% (31 d.f.)
Subsidiary experiment: 2.08 or 7.0% (9 d.f.)

65/C/11.2

SUMMARY OF RESULTS

GRAIN

	Mean	Increase
MAIN EXPERIMENT		
		(±1.22)
O	29.0 (±0.71)	
As	30.0	+1.0
Bs	30.4	+1.4
Cs	28.8	-0.2
Ds	29.6	+0.6
Es	29.2 (±1.00)	+0.2
Ad	29.3	+0.3
Bd	29.9	+0.9
Fd	30.8	+1.8
Gd	30.7	+1.7
Mean	29.7	

Mean D.M. %: 78.4

SUBSIDIARY EXPERIMENT

O	27.8	
Cs	30.0 (±1.04)	
Ds	30.1	
Hg	30.3	
Mean	29.5	

Mean D.M. %: 77.1