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64/R/BB/C/12 Chemical Control of Wireworm - Spring Wheat

Rothamsted Research

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64/C/12.1

CHEMICAL CONTROL OF WIREWORMS

(BB)

New Zealand 1964, the first year - Spring wheat.

Design: 4 randomised blocks of 12 plots each.

Area of each plot: 0.0193. Area harvested: 0.0129.

Treatments. Insecticides:-

None (3 plots per block)

(O)

Sprays (active ingredient, in 158 gals):-

'Bayer 38156' (1.5 lb)

(As)

'Bayer 37289' (1.5 lb)

(Bs)

Zinophos (1.5 lb)

(Cs)

'Sumithion' (1.5 lb)

(Ds)

Aldrin (2.25 lb)

(Es)

Seed dressings (active ingredient per bushel):-

'Bayer 38156' (0.5 oz)

(Ad)

'Bayer 37289' (0.5 oz)

(Bd)

BHC (0.5 oz)

(Fd)

Dieldrin (12.0 oz)

(Gd)

Basal dressings: 2.5 cwt (20:10:10) combine drilled, organo-mercury fungicide dressing applied to seed.

Cultivations, etc.: Ploughed: Dec 7, 1963. Sprays applied:

Mar 13, 1964. Seed drilled at 3 bushels: Apr 1. Sprayed with 2,4-D butoxyethylester at 0.66 lb a.e. in 40 gals: May 20. Combine harvested: Aug 31. Variety: Jufy I. Previous crop: Old grass.

NOTE: Plant samples were taken on 8th May for estimation of wireworm damage.

Standard error per plot.

Grain: 2.25 or 6.6% (35 d.f.)

64/C/12.2

SUMMARY OF RESULTS

GRAIN

	Mean	Increase
		(±1.30)
O	33.9 (±0.65)	
As	36.1	+2.2
Bs	35.3	+1.4
Cs	34.8	+0.9
Ds	34.8	+0.9
Es	35.2 (±1.12)	+1.3
Ad	32.5	-1.4
Bd	34.3	+0.4
Fd	32.6	-1.3
Gd	34.5	+0.6
Mean	34.3	

Mean D.M. %: 87.4