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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