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67/R/BH/C/11 Sod Seeding and Pests - Winter Wheat

Rothamsted Research

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67/C/11.1

WINTER WHEAT

(BH)

Sod seeding and pests, New Zealand 1967, the third year.

Design: 3 randomised blocks of 3 plots, split into 2.

Area of each sub plot: 0.0226. Area harvested: 0.0152.

Treatments: All combinations of:-

Whole plots: 1. Seedbed preparation: Ploughed 1965, 1966 and 1967 (M). Ploughed with ioxynil spray 1965, ploughed 1966 and 1967 (MI). Seeded direct each year, with paraquat 1965 and 1966, aminotriazole* and paraquat** 1967 (P).

Sub plots: 2. Insecticide spray: None (O), sprayed with DDT,*** diazinon*** and chlordane*** (D).

* At 4 lb in 40 gals (with ammonium thiocyanate at 3.7 lb).

** At 2 lb ion in 40 gals.

*** A mixture of DDT at 9.6 lb, diazinon at 4.8 lb and chlordane at 9.6 lb, in 160 gals.

Basal applications: 24 cwt ground chalk, 340 lb (6:15:15), 450 lb 'Nitro-Chalk' in spring. Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 20 gals).

Cultivations, etc.: M and MI plots ploughed: Sept 15, 1966. Aminotriazole and ammonium thiocyanate applied: Sept 16. Ground chalk applied: Sept 23. Insecticides and paraquat applied: Oct 21. Basal NPK compound applied: Oct 24. Spring-tine cultivated M and MI treatments: Oct 25. Seed drilled at 180 lb: Oct 26. Basal 'Nitro-Chalk' applied: Apr 18, 1967. Weedkiller applied: May 9. Combine harvested: Aug 30. Variety: Cappelle.

NOTES: (1) Counts of soil fauna were made in June, August and September. Earthworm counts were included in September.

(2) For previous years' results see 'Results' 65/C/24 and 66/C/15.

Standard errors per plot. Grain:

Whole plot: 2.32 or 6.4% (4 d.f.)

Sub plot: 2.15 or 6.0% (6 d.f.)

67/C/11.2

SUMMARY OF RESULTS

	GRAIN			Mean
	M	MI	P	
	(1) and (2)			(± 0.72)
O	42.4	42.4	24.9	36.6
D	39.0	42.6	25.1	35.6
Mean (± 1.34)	40.7	42.5	25.0	36.1

Mean D.M. %: 83.8

- (1) (± 1.60) For use in horizontal and diagonal comparisons
 (2) (± 1.24) For use in vertical and interaction comparisons