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Yields of the Field Experiments 1965

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65/R/BH/C/24 Sod Seeding and Pests - Winter Wheat

Rothamsted Research

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65/C/24.1

WINTER WHEAT

(BH)

Sod seeding and pests, New Zealand 1965, the first year.

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

Area of each sub-plot: 0.0226. Area harvested: 0.0150.

Treatments: All combinations of:-

Whole plots: 1. Seedbed preparation: Ploughed (M), ploughed with ioxynil* spray (I), direct seeding after paraquat** spray (P).

Sub-plots: 2. Insecticide: None (O), diazinon*** spray prior to sowing (D).

NOTE: M and I treatments were drilled at 7 in. row-spacing by farm drill, P treatments at 9 in. row-spacing by I.C.I. sod-seeding drill.

* At 26.6 grams

** At 2 lb ion in 40 gals

*** At 2 lb in 160 gals (plots 1 - 3), 2 lb in 320 gals (remainder).

Basal applications: 240 lb (6:15:15) combine drilled, 0.6 cwt N as 'Nitro-Chalk' in spring. Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals).

Cultivations, etc.: M and I treatments ploughed: Nov 16, 1964. P plots sprayed with paraquat: Nov 19. Treatments M and I disc-harrowed twice and harrowed, seed drilled on all plots at 190 lb: Nov 20. P treatment rolled, M and I treatments harrowed: Nov 23. Ioxquil and diazinon applied: Nov 27. 'Nitro-Chalk' applied: Apr 14, 1965. Sprayed: May 10. Combine harvested: Sept 20. Variety: Cappelle. Previous crop: Old grass.

NOTE: Counts of soil fauna were made before drilling and at mid-season.

Standard errors per plot. Grain:

Whole plot: 2.35 or 10.3% (4 d.f.)

Sub plot: 4.63 or 20.4% (6 d.f.)

65/c/24.2

SUMMARY OF RESULTS

GRAIN

	M	I	P	Mean
	(1) and (2)			(±1.54)
O	23.1	20.9	16.5	20.2
D	27.5	27.7	20.5	25.2
Mean (±1.35)	25.3	24.3	18.5	22.7

Mean D.M. %: 78.5

- (1) (±2.33) For use in horizontal and diagonal comparisons
- (2) (±2.67) For use in vertical and interaction comparisons