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Numerical Results of the Field Experiments 1968

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68/C/9 Sod Seeding and Pests - W. Wheat

Rothamsted Research

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68/c/9.1

WINTER WHEAT

(BH)

Sod seeding and pests, New Zealand 1968, the fourth year.

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

Area of each sub plot: 0.0227. Area harvested: 0.0152.

Treatments: All combinations of:-

Whole plots: 1. Seedbed preparation: Ploughed 1965, 1966, 1967 and 1968 (M). Ploughed with ioxynil spray 1965, ploughed 1966 and 1967, ploughed with aminotriazole* 1968 (MA). Seeded direct each year, with paraquat 1965 and 1966, aminotriazole* and paraquat** 1967 and 1968 (SAP).

Sub plots: 2. Insecticide spray: None (0), sprayed 1965 with diazinon, 1966 with diazinon and chlordane 1967 with DDT, diazinon and chlordane, and 1968 with DDT, diazinon and chlordane*** (I).

* At 4 lb in 32 gals (with ammonium thiocyanate at 3.7 lb).

** At 2 lb ion in 32 gals.

*** A mixture of DDT at 9.6 lb, diazinon at 2.0 lb and chlordane at 6.7 lb, in 160 gals.

Basal applications: 340 lb (6:15:15), 0.84 cwt N as 'Nitro-Chalk' in spring.

Weedkiller: Mecoprop at 42 oz and 2,4-D at 10.5 oz in 40 gals.

Cultivations, etc.: Aminotriazole, ammonium thiocyanate and paraquat applied: 21 Sept, 1967. M and MA plots ploughed: 12 Oct.

Insecticides applied: 23 Oct. Basal NPK compound applied: 24 Oct.

M and MA plots spring-tine cultivated, seed drilled at 180 lb:

25 Oct. 'Nitro-Chalk' applied: 11 Apr, 1968. Weedkiller

applied: 4 May. Combine harvested: 24 Aug. Variety: Cappelle.

NOTES: (1) Plant counts were made on 8 Apr, 1968.

(2) For previous years' results see 'Results' 65/C/24, 66/C/15, 67/C/11.

Standard errors per plot. Grain:

Whole plot: 2.64 or 10.4% (4 d.f.)

Sub plot: 2.57 or 10.1% (6 d.f.)

68/c/9.2

SUMMARY OF RESULTS

GRAIN

	M	MA	SAP	Mean
	(1) and (2)			(±0.86)
0	30.3	28.0	18.7	25.7
I	32.0	32.8	11.1	25.3
Mean (±1.53)	31.2	30.4	14.9	25.5

- (1) (±1.85) For use in horizontal and diagonal comparisons only
- (2) (±1.49) For use in vertical and interaction comparisons only

Mean D.M. %: 84.1