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67/W/WBW/C/26 Direct Seeding - Spring Wheat

Rothamsted Research

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67/C/26.1

WINTER WHEAT

(WBW)

Direct seeding, Woburn White Horse Field 1967, the second year.

Design: 4 randomised blocks of 4 plots split into 2.

Area of each sub plot: 0.0149. Area harvested: 0.0071.

Treatments: All combinations of:-

Whole plots: 1. Seedbed preparation: Direct seeding after paraquat at 1 lb ion in 33 gals, Sept 27, 1966 and 0.75 lb ion in 20 gals Oct 25 (S). Normal cultivations (M) (called P in 1966).

2. Seed dressing: No insecticide, fungicide only (SO) combined insecticide and fungicide (SI).

Sub plots: 3. Insecticide spray: None (DO), diazinon at 3.2 lb a.i. plus chlordane at 2.8 lb a.i. plus DDT at 3.1 lb a.i. plus zinophos at 3.2 lb a.i. in 50 gals (DD).

Basal applications: 5 cwt (0:14:28) combine drilled. 0.8 cwt N as 'Nitro-Chalk' top dressed. Weedkiller: MCPA/dichloroprop (Seritox at 4 pts in 25 gals).

Cultivations, etc.: 'S' plot sprayed with paraquat: Sept 27, 1966 and Oct 25. 'M' plots ploughed: Sept 30. Insecticide applied: Oct 21. Seed combine drilled at 180 lb: Oct 27. 'Nitro-Chalk' applied: Apr 24, 1967. Weedkiller applied: Apr 28. Combine harvested: Aug 22. Variety: Cappelle.

NOTES: (1) Counts of soil fauna were made in June, July and Sept. Earthworms were included in the last count.

(2) For the previous years' results see 'Results' 66/C/33.

(3) Slugs severely damaged the crop on the S plots.

Standard errors per plot. Grain:

Whole plot: 3.72 or 7.2% (9 d.f.)

Sub plot: 4.52 or 8.7% (12 d.f.)

67/C/26.2

SUMMARY OF RESULTS

GRAIN

	SO	SI	DO	DD	Mean
	(±1.86)		(1) and (2)		(±1.32)
S	41.8	47.5	44.5	44.8	44.7
M	58.2	60.2	60.3	58.2	59.2
			(1) and (2)		(±1.32)
SO			51.5	48.5	50.0
SI			53.3	54.5	53.9
Mean (±1.13)			52.4	51.5	51.9

- (1) (±1.73) For use in vertical and diagonal comparisons
 (2) (±1.60) For use in horizontal and interaction comparisons

	DO	S	DD	DO	M	DD
	(3) and (4)					
SO	43.5		40.1	59.5		56.9
SI	45.5		49.6	61.1		59.4

- (3) (±2.45) For use in ~~vertical and diagonal comparisons~~ *comparisons involving different whole plot combinations*
 (4) (±2.26) For use in ~~horizontal and interaction comparisons~~ *comparisons within the same whole plot combinations*

Mean D.M. %: 85.9