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Numerical Results of the Field Experiments 1969

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69/W/CS/15 - Direct Seeding - Winter Wheat

Rothamsted Research

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DIRECT SEEDING

(69/W/CS/15)

Direct seeding, Woburn White Horse Field 1969, the fourth year - Winter Wheat.

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

Area of each sub plot: 0.0149. Area harvested: 0.0070.

Treatments: All combinations of:-

- Whole plots: 1. Seedbed preparation: Direct seeding after paraquat at 0.75 lb ion in 25 gals, 24 Sept, 1968 (SP), normal cultivations (M).
2. Seed dressing: No insecticide, fungicide only (SO), combined insecticide fungicide (SI).
- Sub plots: 3. Insecticide: None (DO), phorate at 10 lb, chlordane at 10 lb a.i. in April, (DD).

NOTE: Treatments in 1966, 1967, 1968 and 1969 are cumulative.

Basal applications: 530 lb (0:14:28) combine drilled. 0.8 cwt N as 'Nitro-Chalk' top dressed. Weedkiller: Ioxynil at 9 oz plus mecoprop at 27 oz in 25 gals.

Cultivations, etc: Paraquat applied to SP plots: 24 Sept, 1968. M plots ploughed: 30 Sept. Insecticide applied, seed combine drilled at 190 lb: 18 Oct. SP plots rolled: 21 Oct. M plots harrowed: 22 Oct. 'Nitro-Chalk' applied: 15 Apr, 1969. Weed-killer applied: 1 May. Combine harvested: 22 Aug.

- NOTES: 1. For the previous years' results see 'Results' 66/C/33, 67/C/26 and 68/C/20.
2. Counts of soil fauna were made in February and September, and plant samples were taken in July for counts of damage to tillers. Soil samples for earthworm counts were taken in September.

Standard errors per plot. Grain, cwt:

Whole plot: 2.46 or 9.1% (9 d.f.)
Sub plot: 4.39 or 16.3% (12 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

| | SO | SI | DO | DD | Mean |
|--------------|---------|------|-------------|------|---------|
| | (±1.23) | | (1) and (2) | | (±0.87) |
| SP | 29.1 | 25.2 | 24.6 | 29.7 | 27.2 |
| M | 26.6 | 27.0 | 26.6 | 27.1 | 26.8 |
| | | | (1) and (2) | | (±0.87) |
| | | SO | 27.5 | 28.2 | 27.9 |
| | | SI | 23.6 | 28.6 | 26.1 |
| Mean (±1.10) | | | 25.6 | 28.4 | 27.0 |

Mean D.M.%: 78.5

- (1) (±1.40) For use in vertical and diagonal comparisons only.
- (2) (±1.55) For use in horizontal and interaction comparisons only.