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Numerical Results of the Field Experiments 1969

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69/R/CS/22 - Soil Sterilants - Winter Wheat

Rothamsted Research

Rothamsted Research (1970) *69/R/CS/22 - Soil Sterilants - Winter Wheat* ; Numerical Results Of The Field Experiments 1969, pp 170 - 171 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

WINTER WHEAT

(69/R/CS/22)

Soil sterilants, residual effects 1969, Claycroft, the third year. For previous years' results see 'Results' 67/C/29 and 68/C/22.

Design: 2 replicates of 10 x 2 in 4 blocks of 10 plots.

Area of each plot: 0.0030. Area harvested: 0.0016.

Treatments: All combinations of:-

1. Treatment sequences (soil sterilants):- As 1968. Residual effects only were tested in 1969, no further soil sterilants or rotary cultivations were applied.
2. Nitrogen: 0.5(N1), 1.0(N2) cwt N as 'Nitro-Chalk', N1 on plots that received N0 in 1967 and 1968, N2 after N1.

Basal applications: 2.5 cwt (0:20:20) combine drilled. Mecoprop at 42 oz and 2,4-D at 10.5 oz in 20 gals.

Cultivations, etc.: Ploughed: 5 Oct, 1968. Seed drilled at 180 lb: 17 Oct. 'Nitro-Chalk' applied: 19 Apr, 1969. Weedkiller applied: 5 May. Combine harvested: 30 Aug. Variety: Cappelle.

- NOTES: (1) Plant samples were taken for disease counts.
- (2) Plots treated with D-D in 1968 had no plants with deformed ears in 1969.

Standard error per plot.

Grain, cwt: 2.45 or 4.4% (18 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

Treatment	O	O	F	F	R	R	Z	Z	Z	D	D	Mean
1967												
1968												
												(±0.55)
NO	49.8	48.6	48.8	52.6	51.0	51.8	50.6	53.4	53.6	51.6	51.2	
NI	58.1	60.0	58.5	59.4	59.0	59.0	59.9	59.0	58.7	59.8	59.1	
Mean (±1.23)	53.9	54.3	53.6	56.0	55.0	55.4	55.3	56.2	56.2	55.7	55.2	

(±1.73)

Mean D.M.%: 82.0