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# Numerical Results of the Field Experiments 1968

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## 68/C/22 Soil Sterilants - W. Wheat

### Rothamsted Research

Rothamsted Research (1970) *68/C/22 Soil Sterilants - W. Wheat* ; Numerical Results Of The Field Experiments 1968, pp 203 - 204 - DOI: <https://doi.org/10.23637/ERADOC-1-58>

68/C/20.1

# WINTER WHEAT

(WBW)

Direct seeding, Woburn White Horse Field 1968, the third year.

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

Area of each sub plot: 0.0149. Area harvested: 0.0065.

Treatments: All combinations of:-

- Whole plots: 1. Seedbed preparation: Direct seeding after paraquat at 1 lb ion in 33 gals, 21 Sept, 1967 (S). Normal cultivations (M).  
2. Seed dressing: No insecticide, fungicide only, (SO), combined insecticide fungicide (SI).  
Sub plots: 3. Insecticide spray: None (DO), diazinon at 1.6 lb a.i. plus chlordane 1.75 lb a.i. plus DDT at 6.4 lb a.i. plus zinophos at 3.7 lb a.i. in 50 gals (DD).

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

Basal applications: 45 cwt Magnesian limestone, 5 cwt (0:14:28) broadcast. 0.8 cwt N as 'Nitro-Chalk' top dressed. Weedkiller: Mecoprop at 1.88 lb a.e. in 25 gals.

Cultivations, etc.: 'M' plots ploughed: 20 Sept, 1967. 'S' plots sprayed with paraquat: 21 Sept. Magnesian limestone applied: 12 Oct. PK broadcast: 23 Oct. Insecticide applied, seed drilled at 190 lb, 'S' plots only harrowed: 24 Oct. 'Nitro-Chalk' applied: 22 Apr, 1968. Weedkiller applied: 25 Apr. Combine harvested: 26 Aug. Variety: Cappelle.

NOTES: (1) For the previous years' results see 'Results' 66/C/33 and 67/C/26.

(2) Counts of soil fauna were made in April and plant samples were taken in July for counts of damage to tillers.

Standard errors per plot. Grain:

Whole plot: 3.49 or 12.0% (9 d.f.)  
Sub plot: 6.94 or 23.9% (12 d.f.)

68/c/19.3

SERIES IV

| 1966<br>1967<br>1968 | MP<br>MP<br>MP | MP<br>PD<br>MP | PD<br>PD<br>PD | PD<br>MP<br>PD | Mean     |
|----------------------|----------------|----------------|----------------|----------------|----------|
| TOTAL TUBERS         |                |                |                |                |          |
| (±0.655)             |                |                |                |                | (±0.327) |
| O                    | 15.71          | 14.39          | 3.73           | 11.78          | 11.40    |
| C                    | 16.10          | 14.51          | 4.21           | 12.69          | 11.88    |
| O                    | 15.29          | 13.34          | 1.76           | 10.58          | 10.24    |
| F                    | 16.52          | 15.56          | 6.18           | 13.89          | 13.04    |
| Mean (±0.463)        | 15.90          | 14.45          | 3.97           | 12.23          | 11.64    |

% WARE

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| O    | 95.1 | 95.1 | 75.4 | 93.9 | 89.9 |
| C    | 94.3 | 94.1 | 76.1 | 94.6 | 89.8 |
| O    | 93.7 | 94.0 | 66.8 | 93.1 | 86.9 |
| F    | 95.7 | 95.2 | 84.8 | 95.4 | 92.8 |
| Mean | 94.7 | 94.6 | 75.8 | 94.3 | 89.8 |

Varieties MP = Maris Piper (resistant)  
PD = Pentland Dell (susceptible)