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Numerical Results of the Field Experiments 1968

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68/C/22 Soil Sterilants - W. Wheat

Rothamsted Research

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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 1967 1968	MP MP MP	MP PD MP	PD PD PD	PD MP 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)