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# Numerical Results of the Field Experiments 1970

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## 70/R/WW/7 Winter Wheat Seed Dressings and Soil-borne Diseases

### Rothamsted Research

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WINTER WHEAT

(70/R/WW/7)

Seed dressings and soil-borne diseases, Highfield Drive 1970.

Design: 4 randomised blocks of 8 plots.

Area of each plot: 0.0050. Area harvested: 0.0027.

Treatments: None (0) (2 plots per block) and all combinations of:-

1. Seed dressings (as wettable powders): 50% benomyl (B), 75% 'Plantvax' (P), 60% thiabendazole (T).
2. Rates of application per 63 lb of seed: 1 oz (1), 4 oz (2) of wettable powder.

Basal applications: 280 lb (8:20:16) combine drilled, 1.0 cwt N as 'Nitro-Chalk' top dressed in spring. Weedkillers: Paraquat at 0.75 lb ion in 20 gals, 2,4-D at 0.5 lb and dichlorprop at 2 lb in 20 gals.

Cultivations, etc.: Paraquat applied: 17 Sept, 1969. Ploughed: 22 Sept. Rotary cultivated: 15 Oct. Seed combine drilled at 160 lb: 27 Oct. 'Nitro-Chalk' applied: 28 Apr, 1970. 2,4-D/dichlorprop applied: 8 May. Combine harvested: 27 Aug. Variety: Cappelle. Previous crops: Barley 1968, winter wheat 1969.

NOTE: Samples were taken for root and foot rot diseases.

Standard error per plot.

Grain, cwt: 2.47 or 6.6% (21 d.f.)

70/R/W/7

SUMMARY OF RESULTS

GRAIN: CWT

	O	B	P	T	Mean
			(±1.24)		(±0.71)
1		37.6	38.0	39.2	38.3
2		37.4	37.9	37.7	37.7
Mean (±0.87)	36.0	37.5	38.0	38.5	37.5*

\* General mean

Mean D.M. %: 84.3