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Numerical Results of the Field Experiments 1969

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69/R/W/ 10 - Chemical Control of Take-all -

Rothamsted Research

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WINTER WHEAT

(69/R/W/10)

Chemical control of take-all (*Ophiobolus graminis*), Highfield Drive 1969.

Design: 4 randomised blocks of 7 plots.

Area of each plot: 0.0050. Area harvested: 0.0026.

Treatments: None (0) and all combinations of:-

1. Fungicide: Benomyl (B), M2452(M), each as 50 % wettable powder, 'Plantvax' (P) as 75% wettable powder.
2. Rates of application: 1 lb(1), 5 lb(2) a.i.

Basal applications: 280 lb (6:15:15) combine drilled. 0.8 cwt N as 'Nitro-Chalk' in spring. Weedkiller: mecoprop at 42 oz and 2,4-D at 10.5 oz in 20 gals.

Cultivations, etc.: Ploughed: 20 Sept, 1968. Seed drilled at 180 lb: 16 Oct. 'Nitro-Chalk' applied: 27 Mar, 1969. Fungicides applied: 10 Apr. Weedkiller applied: 1 May. Combine harvested: 30 Aug. Variety: Cappelle. Previous crops: Barley 1967 and 1968.

NOTE: Samples were taken for estimation of take-all (*Ophiobolus graminis*), eyespot (*Cercospora herpotrichoides*) and sharp eyespot (*Rhizoctonia solani*) in spring and summer.

Standard error per plot.

Grain, cwt: 6.07 or 12.6% (15 d.f.)

SUMMARY OF RESULTS

GRAIN: CWT

	B	M	P	Mean
		(± 3.04)		(± 1.75)
1	50.2	45.6	46.9	47.6
2	51.2	49.8	45.3	48.8
Mean (± 2.15)	50.7	47.7	46.1	48.2

0 46.6 (± 3.04)

General Mean: 48.0

Mean D.M.%: 81.9