

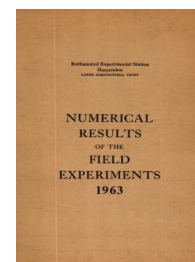
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63/c/9

CHEMICAL CONTROL OF TAKE-ALL

(AP)

The chemical control of take-all (*Ophiobolus graminis*) in winter wheat - Highfield Drive 1963, the first year.

Design: 3 randomised blocks of 5 plots each.

Area of each plot: 0.0072 acres.

Treatments: None (3 plots per block*), sprayed with heptachlor at 4 lb in 70 gallons per acre (H4), at 8 lb in 140 gallons per acre (H8).

*2 of these will be treated with heptachlor in 1964.

Basal dressings per acre: 2.5 cwt compound fertiliser (20% P₂O₅, 20% K₂O) combine drilled. 1 cwt N as 'Nitro-Chalk' applied as spring top dressing.

Cultivations, etc.: Ploughed: Sept 4, 1962. Ground chalk applied at 25 cwt per acre: Oct 17. Heptachlor treatments applied, all plots rotary cultivated: Oct 23. Seed drilled at 2.5 bushels per acre: Nov 13. 'Nitro-Chalk' applied: Apr 26, 1963. Sprayed with TBA/MCPA at 4 pints in 40 gallons per acre: May 22. Combine harvested: Sept 10. Variety: Cappelle. Previous crops: Barley 1961, barley 1962.

Note: Estimates were made of the incidence of take-all on 3 occasions.

Standard error per plot.

Grain (at 85% dry matter): 2.40 cwt per acre or 9.4% (10 d.f.)

Summary of Results

Winter wheat, Grain (at 85% dry matter): cwt per acre

	Spray			Mean
	None	H4	H8	
Mean	24.5	27.2	27.5	25.6
	(±0.80)	(±1.39)		
Increase		2.7	3.0	
		(±1.60)		

Mean dry matter % as harvested: 79.1