

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1963

[Full Table of Content](#)



63/R/AP/C/9 Chemical Control of Take-all - Winter Wheat

Rothamsted Research

Rothamsted Research (1964) *63/R/AP/C/9 Chemical Control of Take-all - Winter Wheat* ; Yields Of The Field Experiments 1963, pp 151 - 151 - DOI: <https://doi.org/10.23637/ERADOC-1-183>

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