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64/R/AP/C/8 Chemical Control of Take-all - Winter Wheat

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64/C/8

CHEMICAL CONTROL OF TAKE-ALL

(AP)

The chemical control of take-all (*Ophiobolus graminis*) in winter wheat - Highfield Drive 1964, the second year.

Design: 3 randomised blocks of 5 plots each.

Area of each plot: 0.0072. Area harvested: 0.0070.

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

1. Rates of spraying: heptachlor at 4 lb in 70 gallons (H4), at 8 lb in 140 gallons (H8).
2. Times of spraying: in 1964 only (S1), in 1963 and in 1964 (S2).

Basal dressings: 2.5 cwt (0:20:20) combine drilled. 1 cwt N as 'Nitro-Chalk' applied as spring top dressing.

Cultivations, etc.: Ploughed: Sept 26. Heptachlor treatments applied: Oct 8, 1963. Rotary cultivated twice: Oct 10 and 14, 1963. Seed drilled at 2.5 bushels: Oct 14. 'Nitro-Chalk' applied: Apr 15, 1964. Sprayed with mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals): Apr 27. Combined harvested: Aug 26. Variety: Cappelle.

NOTE: (1) Estimates were made of the incidence of take-all on 3 occasions.

(2) For previous year's results see 'Results' 63/C/9.

S.E. per plot.

Grain: 0.99 or 2.6% (8 d.f.)

SUMMARY OF RESULTS

GRAIN

0	H4 S1	H8 S1	H4 S2	H8 S2	Mean
35.8	37.3	39.1	37.4	38.1	37.6
		(±0.57)			

Mean D.M. %: 86.6