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64/R/AO/C/7 Decline of Take-all - Winter Wheat

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64/C/7

DECLINE OF TAKE-ALL

(AO)

The effect of crop sequences on the decline of take-all (*Ophiobolus graminis*) - Great Field I 1964, the second year.

Design: 3 randomised blocks of 6 plots each (5 of winter wheat, 1 of oats), using the plots of Series III of the Cereals and Beans Rotations Experiment (see 'Results' 61/C/1).

Area of each plot: 0.0305. Area harvested: 0.0199.

Treatments: 6 crop sequences. For details see 'Results' 63/C/8.

Basal dressings: 2.5 cwt compound fertiliser (0:20:20) combine drilled. 1.0 cwt N to wheat and 0.4 cwt N to oats applied in spring as 'Nitro-Chalk'.

Cultivations, etc.: Sprayed with aminotriazole (Weedazol-TL at 2 gals in 40): Oct 1, 1963. Ploughed: Oct 30. Winter wheat drilled at 2.5 bushels: Nov 13. 'Nitro-Chalk' applied to winter wheat: Mar 5, 1964. Oats drilled at 4 bushels: Mar 7. 'Nitro-Chalk' applied to oats: Mar 9. Sprayed with mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals): Apr 27. Combine harvested: Oats - Aug 22, winter wheat - Aug 26. Varieties: Winter wheat - Cappelle, oats - Condor.

- NOTES: (1) Yields were taken for winter wheat only.
 (2) Estimates were made on 6 occasions of the incidence of take-all on wheat.
 (3) For details of the previous year's results see 'Results' 63/C/8.

Standard error per plot. Winter wheat.
 Grain: 2.32 or 6.1% (8 d.f.)

SUMMARY OF RESULTS

GRAIN

Crop in 1959	W	W	B	W	WS	
1960	W	O	W	O	W	
1961	WS	WS	B	Be	WS	
1962	W	W	W	W	W	
1963	W	W	W	W	O	Mean
	38.3	36.4	39.5	35.4	40.7	38.1
			(±1.34)			