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Yields of the Field Experiments 1965

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

Rothamsted Research

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65/C/7.1

DECLINE OF TAKE-ALL

(AO)

The effect of crop sequences on the decline of take-all
(*Ophiobolus graminis*) - Great Field I 1965, the third year.

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

Area of each plot: 0.0145. Area harvested: 0.0092.

Treatments: 6 crop sequences. For details see 'Results' 63/C/8.1.

Basal applications: Manures - as 1964. Weedkiller:
Mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals) to
winter wheat.

Cultivations, etc.: Ploughed: Oct 23, 1964. Winter wheat drilled
at 160 lb: Oct 27. 'Nitro-Chalk' applied to winter wheat:
Mar 11, 1965. Oats drilled at 170 lb, 'Nitro-Chalk' applied
to oats: Mar 15. Winter wheat sprayed: Apr 30. Combine
harvested: Winter wheat - Aug 26, oats - Sept 10.

- NOTES: (1) Yields were taken for winter wheat only.
(2) Estimates were made on 6 occasions of the incidence
of take-all and on 2 occasions of the incidence of
eyespot (*Cercospora herpotrichoides*).
(3) For details of the previous years' results see
'Results' 63/C/8 and 64/C/7.

Standard error per plot.
Grain: 2.34 or 7.3% (8 d.f.)

65/C/7.2

SUMMARY OF RESULTS

WINTER WHEAT GRAIN

Crop in 1959	W	W	W	WS	O	
1960	W	O	O	W	W	
1961	WS	WS	Be	WS	WS	
1962	W	W	W	W	W	
1963	W	W	W	O	W	
1964	W	W	W	W	O	Mean
<hr/>						
	32.4	31.8	29.3	29.6	36.7	32.0
	(±1.35)					

Mean D.M.%: 79.6