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Yields of the Field Experiments 1953

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53/CA/1 Wheat - Eyespot Rotation 5th Year - Rothamsted

Rothamsted Research

Rothamsted Research (1954) *53/CA/1 Wheat - Eyespot Rotation 5th Year - Rothamsted* ; Yields Of The Field Experiments 1953, pp 68 - 69 - DOI: <https://doi.org/10.23637/ERADOC-1-173>

53/Ca/1.1

WHEAT

The effects of various crop sequences on the incidence of Eyespot
(Cercospora herpotrichoides) - Little Knott 1953, the 4th year.

Arrangement of previous treatment crops: 4 longitudinal and 8 cross
strips.

Area of each sub plot, acres: In 3 longitudinal strips - 0.0498; in the
other - 0.0348 acre. Area harvested: 0.0482 and 0.0335 respectively.

Preparatory crops 1950-52:-

1950 North and South, strips of Fallow, Ryegrass, Wheat, Potatoes

1951 East and West, strips of Ryegrass, Wheat, Fallow, Potatoes

1951 East and West, strips $\frac{1}{2}$ width Ryegrass, Wheat, Oats, Beans
Wheat, Oats, Barley, Wheat

giving 32 crop sequences in all.

In 1949 the field carried a crop of wheat heavily infested with Eyespot,
Take-all (Ophiobolus graminis) and weeds.

Basal dressing: $2\frac{1}{2}$ cwt sulphate of ammonia per acre in spring.

Cultivations, etc.: Ploughed: Aug 7, 1952. Seed drilled at $2\frac{3}{4}$
bushels per acre: Oct 29. Sulphate of ammonia applied:
Apr 24, 1953. Harvested: Aug 28. Variety: Squareheads Master 13/4.

53/Ca/1.2

Summary of Results

Previous crop			Grain (at 85% dry matter): cwt per acre		Straw (less cavings and chaff): cwt per acre	
1950	1951	1952		Mean		Mean
W	W	W	15.5	15.5	54.0	54.0
H	W	W	19.2		50.3	
P	W	W	23.7	19.3	56.8	53.0
F	W	W	15.1		51.8	
W	H	W	24.4		56.4	
W	P	W	24.4	23.5	41.5	48.7
W	F	B	21.5		48.2	
H	H	W	23.9		56.1	
P	H	W	30.7		57.4	
F	H	W	22.6		52.8	
H	P	W	29.9		44.2	
P	P	W	30.5	27.6	45.3	49.7
F	P	W	27.3		41.8	
H	F	B	25.7		48.3	
P	F	B	30.6		51.4	
F	F	B	27.4		50.0	
W	W	O	32.9	32.9	58.8	58.8
H	W	O	36.1		54.6	
P	W	O	38.6	35.8	57.7	57.2
F	W	O	32.6		59.3	
W	H	H	34.6		70.3	
W	F	O	36.7	36.0	57.0	62.1
W	P	Be	36.8		59.1	
H	F	O	38.6		57.9	
F	F	O	37.6		60.3	
P	F	O	39.2		54.8	
F	H	H	31.3		63.1	
F	P	Be	38.8	37.1	58.7	62.2
H	H	H	32.8		63.1	
P	H	H	36.3		73.5	
H	P	Be	39.9		64.2	
P	P	Be	39.0		64.2	
Mean				30.4		55.7

Mean dry matter %: 82.1

Crop symbols: B - Barley. Be - Beans. F - Fallow. H - Ryegrass.
O - Oats. P - Potatoes. W - Wheat.