

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 1954

[Full Table of Content](#)



54/R/CA/1 Wheat - Eyespot Rotation 5th Year

Rothamsted Research

Rothamsted Research (1955) *54/R/CA/1 Wheat - Eyespot Rotation 5th Year* ; Yields Of The Field Experiments 1954, pp 63 - 64 - DOI: <https://doi.org/10.23637/ERADOC-1-184>

54/Ca/1.1

WHEAT

The effects of various crop sequences on the incidence of Eyespot (Cercospora herpotrichoides) - Little Knott 1954, the 5th year.

Arrangement of previous treatment crops: 4 longitudinal and 8 cross strips, each plot being split into 2 for seed rates.

Area of each sub plot: In 3 longitudinal strips - 0.0249, in the other 0.0174. Area harvested: 0.0156 and 0.0108 acre, 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
1952 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. Wheat was grown on all plots in 1953.

Seed rates: $1\frac{1}{2}$; 3 bushels per acre.

Basal dressing per acre: 1 cwt compound granular fertilizer (12% N, 12% P₂O₅, 12% K₂O) combine drilled with seed. 6 cwt nitrochalk in two equal applications in March and May.

Cultivations, etc: Ploughed: Sept 17, 1953. Seed combine drilled: Nov 6. 1st application of nitrochalk: Mar 13, 1954. 2nd application: May 10. Combine harvested: Sept 13. Variety: Cappelle. Previous crop: Wheat.

Note: Disease surveys were made and the results are available.

54/Ca/1.2

Summary of Results

Grain (at 85% D.M.): cwt per acre

Previous crop				Seed rate: bushels per acre			
1950	1951	1952	1953	1½	3	1½ Mean	3
W	W	W	W	22.3	30.9	22.3	30.9
H	W	W	W	31.0	38.6		
P	W	W	W	36.3	39.9	31.3	38.3
F	W	W	W	26.6	36.3		
W	H	W	W	24.6	36.8		
W	P	W	W	30.9	38.9	27.1	35.7
W	F	B	W	25.8	31.4		
H	H	W	W	34.1	37.2		
P	H	W	W	35.1	38.6		
F	H	W	W	32.6	39.2		
H	P	W	W	31.9	39.0		
P	P	W	W	36.8	43.8	32.5	35.3
F	P	W	W	26.2	31.8		
H	F	B	W	31.7	27.6		
P	F	B	W	34.2	32.2		
F	F	B	W	30.2	28.3		
W	W	O	W	26.0	32.0	26.0	32.0
H	W	O	W	34.6	37.9		
P	W	O	W	43.1	46.1	37.1	38.3
F	W	O	W	33.8	30.8		
W	H	H	W	32.5	36.2		
W	F	O	W	32.0	38.3	32.7	37.0
W	P	Be	W	33.7	36.4		
H	F	O	W	43.0	42.8		
F	F	O	W	38.4	40.1		
P	F	O	W	42.7	45.2		
F	H	H	W	39.2	41.4		
F	P	Be	W	35.6	34.3	38.6	39.5
H	H	H	W	31.0	34.8		
P	H	H	W	36.3	39.1		
H	P	Be	W	40.9	39.6		
P	P	Be	W	40.7	38.5		
Mean						31.0	35.9

Mean dry matter % as harvested: 72.3

The plots are classified according to the occurrence in previous years of the more susceptible crops, wheat and barley.

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