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# Yields of the Field Experiments 1954



Full Table of Content

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

#### **Rothamsted Research**

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54/Ca/1.1

#### WHEAT

- The effects of various crop sequences on the incidence of Eyespot (Cercosporella 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 ½ 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 (Ophiobolous graminis) and weeds. Wheat was grown on all plots in 1953.
- Seed rates: 1½; 3 bushels per acre.
- Basal dressing per acre: 1 cwt compound granular fertilizer (12% N, 12% P<sub>2</sub>O<sub>5</sub>, 12% K<sub>2</sub>O) 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 1950 1951 1952 1953				Seed 1 1 2	rate: bus	nels per acre 1½ 3 Mean	
W	W.	W	W	22.3	30.9	22.3	30.9
H P F	W W	W W	W W W	31.0 36.3 26.6	38.6 39.9 36.3	31.3	38.3
W	H P F	W W B	W W	24.6 30.9 25.8	36.8 38.9 31.4	27.1	35.7
ногногног	HHHPPPFFF	W W W W W B B	W W W W W W W	34.1 35.1 32.6 31.9 36.8 26.2 31.7 34.2 30.2	37.2 38.6 39.2 39.0 43.8 31.8 27.6 32.2 28.3	32.5	35•3
M	W	0	M	26.0	32.0	26.0	32.0
H P F	W W	0 0	W W W	34.6 43.1 33.8	37.9 46.1 30.8	37.1	38.3
W W W	H F P	H O Be	W W W	32.5 32.0 33.7	36.2 38.3 36.4	32.7	37.0
HFPFFHPHP	FFFHPHHPP	0 0 0 H Be H H Be	W W W W W W W	43.0 38.4 42.7 39.2 35.6 31.0 36.3 40.9 40.7	42.8 40.1 45.2 41.4 34.3 34.8 39.1 39.6 38.5	38.6	39•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.