

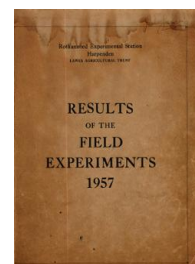
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57/R/BA/2 Four-course Rotation - Cereal Strips

Rothamsted Research

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57/Ba/2.1

FOUR COURSE ROTATION - CEREAL STRIPS

Incidence of Eyespot (*Cercospora herpotrichoides*) after the Four Course Rotation Experiment, discontinued in 1956 - Hoosfield 1957.

Design: 5 strips of cereals, one on each of the 5 plot blocks of each of the four series of the old rotation experiment.

Area of each plot: Series I, II, III - 0.1067 acres; series IV - 0.0978 acres. Area harvested: All series - 0.0380 acres.

Treatments:

<u>Previous rotations.</u>	1953	1954	1955	1956
Series I	Barley	Ryegrass	Wheat	Potatoes
II	Ryegrass	Wheat	Potatoes	Barley
III	Potatoes	Barley	Beans	Wheat
IV	Wheat	Potatoes	Barley	Beans

Cereal strips.

Winter wheat - Yeoman, Squarehead's Master 13/4 and Cappelle;
barley - Proctor; oats - Sun II.

Basal dressing: 3 cwt sulphate of ammonia per acre.

Cultivations, etc.: Ploughed: Series II and III - Sept 25, 1956;
series I and IV - Oct 12. Wheat sown at 3 bushels per acre: Oct 23.
Sulphate of ammonia applied, oats sown at 4 bushels per acre:
Mar 13, 1957. Barley sown at 2 bushels per acre: Mar 15. Sprayed
with MCPA at 3 pints in 40 gallons: May 7. Combine harvested:
Oats - Aug 7; barley - Aug 22; wheat - Aug 23.

Records were made of incidence of disease (Take-All and Eyespot).
The incidence of Eyespot was high on series II and III and low
on series I and IV.

57/Ba/2.2

Summary of Results

	Cappelle	Wheat S. H. Master	Yeoman	Barley Proctor	Oats Sun II
Seed rate: bu. per acre	4	13/4 3	3	2	4

Previous rotation
1953 54 55 56

Grain (at 85% dry matter): cwt per acre

B R W P	37.5	30.2	28.3	37.4	28.4
R W P B	25.9	19.9	20.6	31.7	23.0
P B Be W	25.3	19.4	19.6	28.4	23.9
W P B Be	34.7	25.6	28.0	32.0	21.7
Mean	30.8	23.8	24.1	32.4	24.2

Straw (at 85% dry matter): cwt per acre

B R W P	30.3	36.2	30.9	19.0	14.9
R W P B	26.6	27.8	21.6	15.0	12.3
P B Be W	20.0	21.0	16.5	12.0	11.6
W P B Be	25.0	32.2	24.8	11.8	10.9
Mean	25.5	29.3	23.4	14.4	12.4

Mean dry matter % as harvested, Grain: 83.2
Straw: 86.4

B = Barley
Be = Beans
P = Potatoes
R = Ryegrass
W = Wheat