

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 1957

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1958) *57/R/BA/2 Four-course Rotation - Cereal Strips* ; Yields Of The Field Experiments 1957, pp 22 - 23 - DOI: <https://doi.org/10.23637/ERADOC-1-177>

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