

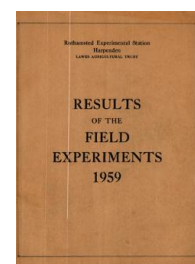
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Yields of the Field Experiments 1959

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Contents 1959

Rothamsted Research

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Classical Experiments *

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Long Term Experiments

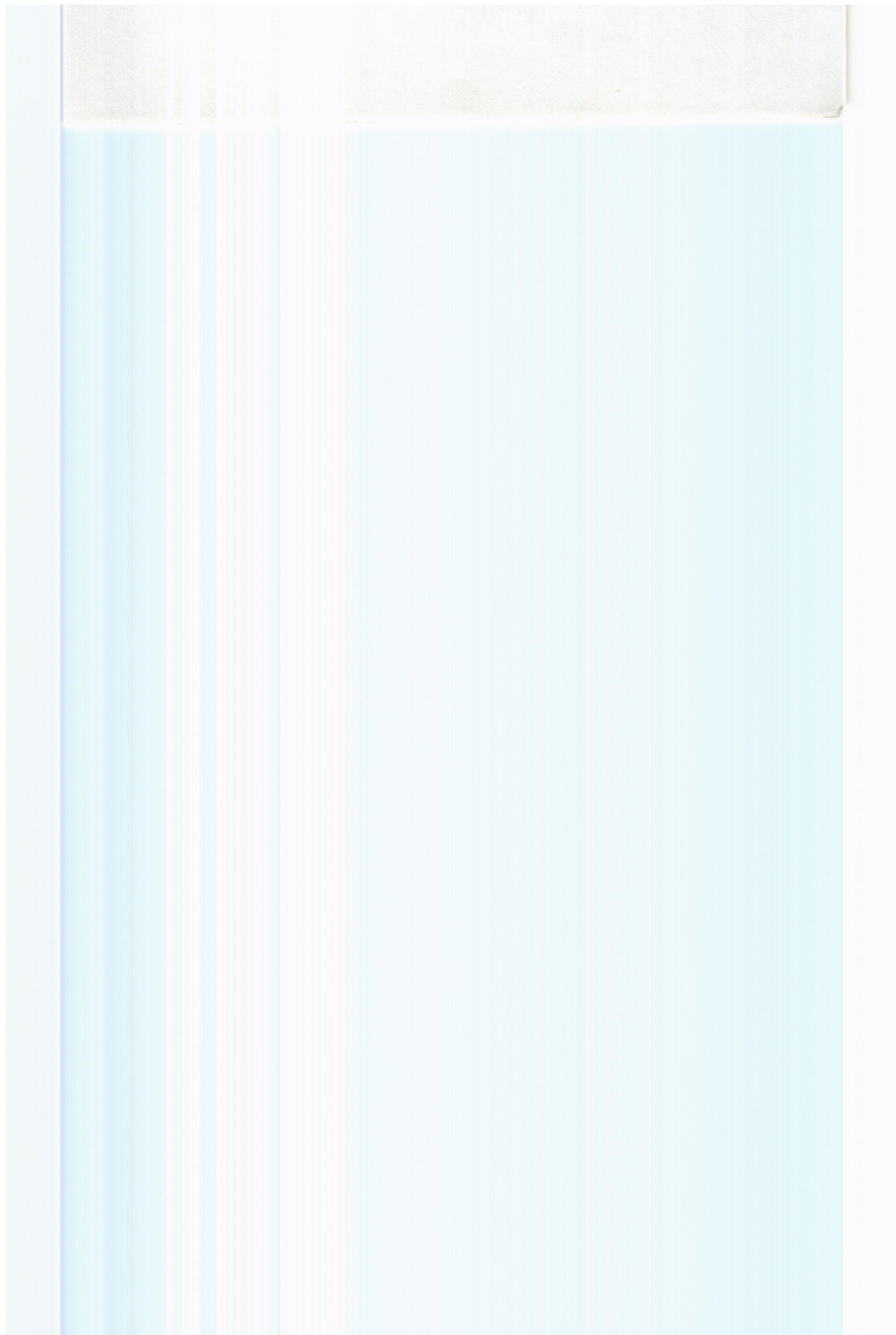
6-Course Rotation	Rothamsted and Woburn	Ba/1
Ley and Arable Rotations	Rothamsted	Bb/1
Reference Plots	Rothamsted	Bc/1
Green Manuring	Woburn	Bd/1
Ley and Arable Rotations	Woburn	Be/1
Market Garden Soil	Woburn	Bf/1
Irrigation	Woburn	Bg/1

Short Term Experiments *

Winter wheat	Seed rates, sowing dates and N (after non-cereal crop)	Ca/1
Winter wheat	Seed rates, sowing dates and N (after cereal crop)	Ca/2
Spring wheat	Row spacing, seed rates and N	Ca/3
Spring wheat	Combine drilling of N - Rothamsted and Woburn	Ca/4
Wheat	Time of sowing, forms of N - Woburn	Ca/5
Barley	Combine drilling of N - Rothamsted and Woburn	Cb/1
Barley	Concentrated fertilizers - Rothamsted and Woburn	Cb/2
Spring oats	Varieties and N	Cc/1
Spring oats	Frit fly study (sowing dates)	Cc/2
Cereals and beans	Rotations	Cd/1
Spring beans	Control of aphids (seed rates and spraying)	Ce/1
Spring beans	Control of weeds (sprays) - Rothamsted and Woburn	Ce/2
Beans	Time of sowing, spraying, P and K - Rothamsted and Woburn	Ce/3
Potatoes	Forms and levels of K - Rothamsted and Woburn	Cf/1
Potatoes	Concentrated fertilizers - Rothamsted and Woburn	Cf/2

*At Rothamsted unless otherwise stated.

~~P.T.O.~~



WHEAT - BROADBALK 1959

59/A/1.1

The 116th year

For history, treatments, etc., see "Details of the Classical and Long Term Experiments" 1956.

Cultivations, etc.:

Cropped sections. Ground chalk applied: Sept 22, 1958. Ploughed: Oct 20 - Nov 11. Dung applied: Nov 10. Autumn fertilizers applied: Dec 4. Seed drilled at $2\frac{3}{4}$ bushels per acre: Dec 8*. Spring fertilizers applied: Apr 27, 1959. Second dressing of nitrate of soda applied to plot 16: May 6. Section IA under continuous wheat sprayed with TCB/MCPA at 4 pints in 40 gallons per acre: May 12. Combine harvested: Aug 19. Variety: Squarehead's Master 13/4.

*Note: Owing to weather conditions plot 2 was sown on Jan 5, 1959.

Fallow section. (IV) Ploughed: Oct 20 - Nov 11, 1958; May 9, 1959; Aug 10.

On a few plots an estimate was made of the chaff, cavings, dust, etc., not picked up by the baler.

Broadbalk Wilderness. N.

Cultivations, etc.: Shrubs grubbed out: Dec 9, 1958. Part mown: Apr 20, 1959, May 12, May 25, June 16, July 15.

Summary of Results

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

Section	VA	VB	II	IB	III	IA	
Years							
after	unlimed	limed					
fallow	1	1	2	3	4	8	Mean
2A	26.3	26.9	25.1	19.5	20.9	15.4	23.0
2B	28.5	27.6	27.7	22.8	23.9	18.8	25.6
3	16.1	14.4	11.9	13.6	12.5	11.8	13.2
5	20.3	18.3	17.7	16.7	14.2	14.3	16.9
6	19.3	19.7	19.3	16.9	18.6	16.9	18.7
7	14.6	15.4	25.8	19.3	23.3	23.8	21.1
8	11.0	17.0	30.8	14.7	23.6	22.9	21.6
9	14.4	13.1	19.2	18.7	15.5	20.4	16.8
10	11.9	13.3	21.7	18.0	18.8	18.3	17.7
11	7.8	11.8	25.3	19.8	16.5	24.2	17.9
12	11.5	12.0	23.2	21.5	21.4	23.0	19.3
13	7.3	13.5	22.6	24.0	20.5	22.4	18.9
14	8.6	12.7	24.6	21.5	22.0	23.6	19.6
15	12.9	16.9	17.9	19.3	20.0	20.1	18.0
16	21.3	20.0	28.5	25.0	27.8	26.0	25.5
17	15.7	15.3	10.6	8.8	11.3	10.5	11.9
18	25.0	22.3	17.2	18.8	24.0	18.8	21.1
19	21.0	20.0	17.0	16.9	21.1	17.8	19.1
20			14.0	17.0		15.6	15.4