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Yields of the Field Experiments 1960

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60/R/A/1 Broadbalk - Wheat

Rothamsted Research

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60/A/1.1

WHEAT - BROADBALK 1960

The 117th year

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

Cultivations, etc.:

Cropped sections. Ground chalk applied: Sept 4, 1959. Section IA sprayed with 2,4-D ester at $1\frac{3}{4}$ pints in 40 gallons per acre: Sept 8. Dung applied: Sept 21. Ploughed: Sept 21 - 28. Autumn fertilisers applied: Oct 7. Seed drilled at $2\frac{3}{4}$ bushels per acre: Oct 19. Spring fertilisers applied: Apr 4, 1960. Second dressing of nitrate of soda applied to plot 16; Section IA sprayed with CMFP at 6 pints in 40 gallons per acre: Apr 28. Combined: Aug 31 - Sept 9. Variety: Squarehead's Master 13/4.

Fallow section. (III) Ploughed: Sept 21 - 28, 1959; Apr 26, 1960; July 2.

Broadbalk Wilderness. N.

In 1960 grazing of the mown portion of Broadbalk Wilderness was introduced.

Cultivations, etc.: Shrubs grubbed out: Nov 18 - 27, 1959. Part grazed (originally mown): Mar 18 - 21, 1960, Apr 19 - 22, May 17 - 21, June 14 - 18, July 11 - 15, Aug 4 - 8, Sept 2 - 7. The grass was topped after each grazing except the first two.

Summary of Results

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

Section Years after fallow	IV 1	VA unlimed 2	VB limed 2	II 3	IB 4	IA 9	Mean
2A	24.8	23.0	20.5	23.3	16.8	21.6	22.3
2B	21.8	19.6	18.1	21.2	16.9	19.7	20.0
3	17.3	14.4	12.6	10.1	11.1	11.0	13.1
5	17.4	14.6	11.4	11.5	11.8	11.8	13.5
6	19.1	16.8	16.0	13.2	14.5	13.4	15.8
7	22.5	21.2	19.5	18.7	18.1	18.6	20.1
8	25.7	24.4	17.8	23.5	23.1	21.6	23.2
9	20.3	20.4	18.7	14.9	16.9	18.3	18.1
10	21.5	23.9	22.1	17.3	19.0	20.8	20.4
11	17.7	23.5	21.5	19.1	18.4	19.2	19.6
12	18.8	23.3	19.6	19.8	18.9	20.7	19.9
13	17.4	15.4	14.7	17.5	17.1	16.8	16.7
14	20.1	19.8	16.4	18.0	16.8	20.8	18.6
15	22.2	21.3	12.8	17.9	16.2	18.6	18.6
16	22.9	22.5	19.7	21.9	20.1	23.5	21.8
17	22.3	19.7	17.8	16.3	17.1	15.8	18.6
18	17.0	8.3	9.9	6.7	8.7	7.7	10.4
19	23.5	18.1	14.2	17.4	20.0	18.8	19.1
20				14.5	16.3	14.6	15.2

60/A/1.2

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

Section	IV	VA	VB	II	IB	IA	
Years		unlimed	limed				
after	1	2	2	3	4	9	Mean
fallow							
2A	45.9	41.0	37.4	34.9	29.9	25.2	37.6
2B	41.9	41.3	37.2	37.8	37.9	18.6	38.1
3	23.4	18.2	14.5	13.2	14.5	11.2	16.8
5	28.0	20.9	19.4	19.1	20.5	14.6	21.6
6	35.0	26.0	29.1	20.7	25.7	16.6	26.7
7	37.4	34.2	32.5	29.4	29.9	23.4	32.3
8	37.9	35.6	35.3	33.1	38.8	29.5	35.6
9	35.8	27.7	27.1	22.0	28.5	26.8	28.3
10	25.0	26.9	27.5	19.1	23.2	23.8	23.7
11	28.9	33.1	25.6	22.1	24.3	22.7	26.2
12	29.1	35.6	28.5	24.6	24.4	27.6	28.0
13	32.8	27.7	29.4	29.0	20.6	24.0	28.4
14	31.2	28.5	26.3	19.9	19.0	21.5	24.9
15	33.1	32.1	24.1	24.7	29.1	27.8	28.6
16	42.0	37.7	36.7	27.1	26.0	27.4	33.7
17	35.8	30.3	30.8	23.7	26.9	18.7	28.9
18	29.1	22.6	24.7	11.8	17.6	8.4	20.1
19	40.5	32.0	29.9	26.3	30.3	24.2	31.7
20				22.6	24.6	18.6	22.6

Mean dry matter % as harvested: Grain 77.3
Straw 90.0