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Yields of the Field Experiments 1961

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61/R/A/1 Broadbalk - Wheat

Rothamsted Research

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61/A/1.1

WHEAT - BROADBALK 1961

The 118th year

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

Cultivations, etc.:

Gropped sections. Ground chalk applied: Oct 1, 1960. Ploughed: Oct 4. Dung applied and ploughed in: Oct 10. Autumn fertilisers applied: Jan 17, 1961. Seed drilled at 3 bushels per acre: Jan 18. Spring fertilisers applied: Apr 17. Second dressing of nitrate of soda applied to plot 16: May 3. Section IA sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: May 5. Combined: Sept 1. Variety: Squarehead's Master 13/4.

Fallow section. (Ib) Ploughed: Oct 4, 1960; June 12, 1961; July 17.

Broadbalk Wilderness. N.

Cultivations, etc.: Shrubs grubbed out: Nov 18 - Dec 6, 1960. Part grazed: Dec 30 - Jan 2, 1961; Apr 12 - May 1; May 23 - 30; June 20 - 23; Aug 10 - 15; Sept 24 - 28. The grass was topped after each grazing except the first and the last.

Summary of Results

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

Section	III	IV	VA	VB	II	IA	
Years			unlimed	limed			
after							
fallow	1	2	3	3	4	10	Mean
2A	27.7	21.6	19.0	14.8	17.9	15.8	20.6
2B	28.2	22.1	7.6	17.0	21.8	17.0	20.7
3	15.8	10.1	11.5	11.1	12.7	11.4	12.4
5	20.2	13.5	11.6	10.8	14.0	11.8	14.5
6	24.4	16.1	10.1	11.6	16.3	15.1	16.8
7	22.8	16.4	9.6	11.1	18.6	17.6	17.0
8	19.9	13.4	6.8	11.8	23.7	14.9	16.4
9	19.2	15.3	12.7	11.6	17.2	13.1	15.8
10	13.6	19.1	17.8	19.9	20.8	15.9	18.0
11	16.5	16.4	11.6	10.2	16.5	11.6	14.8
12	16.7	15.5	10.5	9.9	16.4	15.7	14.7
13	21.9	10.7	6.8	8.7	19.5	16.5	15.0
14	20.2	10.9	9.0	10.8	14.2	16.8	13.9
15	29.0	11.9	6.8	11.9	16.0	17.2	16.5
16	23.5	15.8	14.6	15.0	21.3	13.7	18.5
17	17.4	9.6	9.0	7.9	10.0	8.9	11.2
18	20.8	18.4	15.8	14.3	21.0	12.7	18.4
19	14.0	6.5	8.5	11.6	14.6	13.3	11.4
20					13.9	13.0	13.6

Mean dry matter % as harvested: 84.4

61/A/1.2

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

Section Years after fallow	III	IV	VA	VB	II	IA	Mean
	1	2	unlimed 3	limed 3	4	10	
2A	37.4	21.4	25.3	24.3	22.7	21.1	26.1
2B	39.1	26.0	26.6	28.7	29.1	19.6	29.7
3	20.2	8.1	9.5	10.9	10.5	9.6	12.1
5	25.4	13.7	15.8	16.4	18.1	12.7	18.0
6	31.0	19.5	17.5	19.5	19.6	20.7	22.0
7	32.9	24.4	20.6	24.0	26.3	23.4	26.3
8	42.9	29.6	27.8	33.1	37.3	29.3	34.7
9	29.3	21.1	20.7	20.7	19.4	23.2	22.6
10	19.8	21.0	18.8	23.3	21.8	16.9	20.7
11	25.3	20.2	17.8	16.4	18.0	16.7	19.9
12	25.5	23.1	18.6	17.5	20.9	18.9	21.7
13	37.0	20.7	18.0	25.3	29.4	26.6	27.1
14	31.1	21.0	17.3	17.0	19.5	22.8	22.2
15	40.8	17.0	12.8	23.0	23.1	25.0	24.6
16	40.6	29.6	32.9	32.7	32.9	27.1	33.6
17	22.0	9.6	14.6	16.1	12.2	10.3	14.5
18	33.5	26.3	29.4	29.2	28.9	25.2	29.2
19	23.5	10.0	36.3	22.1	17.8	21.5	20.3
20					18.3	19.1	18.5

Mean dry matter % as harvested: 81.5