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# Yields of the Field Experiments 1963

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## 63/R/BK/A/1 Broadbalk - Wheat

### Rothamsted Research

Rothamsted Research (1964) *63/R/BK/A/1 Broadbalk - Wheat* ; Yields Of The Field Experiments 1963, pp 9 - 11 - DOI: <https://doi.org/10.23637/ERADOC-1-183>

63/A/1.1

WHEAT - BROADBALK 1963

(BK)

The 120th year

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

Cultivations, etc.:

Cropped sections. Ground chalk applied: Sept 27, 1962. Ploughed: Sept 27 - Oct 5. Dung applied: Oct 4. Autumn fertilisers applied: Oct 23. Seed drilled at 3 bushels per acre: Nov 30. Spring fertilisers applied: Apr 24, 1963. Second dressing of nitrate of soda applied to plot 16: May 6. Sections IA and VB sprayed with mecoprop/2,4-D at 7 pints in 40 gallons per acre: May 16. Combine harvested: Sept 13. Variety: Squarehead's Master 13/4 (Rothamsted seed from Broadbalk field).  
Fallow section. (NA) Ploughed: Sept 27 - Oct 5, 1962: May 29, 1963: July 16.

Note: There was a heavy attack of wheat bulb fly (Leptohylemia coarctata) on all plots of Section II (1st after fallow). On plots 10, 11, 12 and 14 the crop failed and was not harvested.

Part of plot 19 (Section IV) - the crop was heavily infested with creeping grasses (Holcus mollis and Agrostis stolonifera), and the harvested area was modified.

Broadbalk Wilderness. Cultivations etc.:

Ungrazed meadow (north): Shrubs grubbed out: Mar 26, 1962.

Grazed meadow (centre): Grazed by sheep: Apr 22 - May 7, 1962, June 1 - 14, July 4 - 13, Aug 16 - 21, Sept 3, Nov 4 - 13.

Grass topped: May 8, June 13, July 12, Aug 19.

Woodland (south): East and west sides trimmed: July 30 - Aug 6, 1962.

63/A/1.2

Summary of Results

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

Section Years after fallow	II	IB	III	IV	VB	IA	Mean
	1	2	3	4	5	12	
2A	27.2	31.1	18.2	19.2	19.9	22.5	22.6
2B	26.8	28.5	18.2	16.9	13.9	25.3	21.0
3	11.4	12.6	10.2	9.9	10.4	6.3	10.5
5	14.2	10.8	11.5	13.1	18.2	11.2	13.2
6	14.8	17.7	13.6	18.6	16.4	15.2	16.0
7	16.2	22.1	17.7	20.1	16.3	22.9	18.6
8	16.7	18.1	20.5	17.1	25.2	32.3	19.8
9	12.7	19.4	17.8	18.3	10.6	19.1	16.1
10	*	12.5	17.9	14.1	9.8	11.0	14.1
11	*	17.1	10.9	15.2	7.2	15.8	13.0
12	*	15.8	12.6	18.3	14.6	17.7	15.5
13	16.8	20.2	19.7	18.0	16.0	23.2	18.4
14	*	18.3	15.6	18.5	15.1	20.1	17.2
15	18.6	17.7	17.0	14.5	14.5	21.5	16.8
16	15.5	21.7	19.8	20.4	19.0	27.6	19.5
17	14.3	10.8	10.8	11.5	11.3	9.7	11.8
18	14.7	19.2	20.3	19.2	19.7	18.6	18.4
19	13.6	19.2	20.5	14.3	19.3	20.5	17.3
20	13.8	18.0				15.1	15.6

Mean dry matter % as harvested: 77.5

\* No yields recorded

63/A/1.3

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

Section Years after fallow	II	IB	III	IV	VB	IA	Mean
	1	2	3	4	5	12	
2A	45.5	36.6	32.4	26.2	23.9	27.8	33.2
2B	46.4	38.5	35.9	30.0	35.6	24.1	36.6
3	20.3	17.2	13.9	13.1	10.5	7.0	14.8
5	30.0	18.8	18.0	17.4	23.8	9.5	21.0
6	29.4	29.2	26.9	29.4	23.3	16.8	27.3
7	43.4	38.1	37.2	36.0	28.4	27.6	36.9
8	45.2	39.2	43.7	34.7	35.9	44.6	40.5
9	36.8	35.8	31.6	33.9	23.0	26.9	32.5
10	*	21.5	24.6	21.0	14.5	20.2	21.1
11	*	26.1	18.6	25.4	8.4	20.5	20.4
12	*	23.6	22.2	29.4	16.9	22.7	23.8
13	42.1	34.9	34.5	34.0	22.7	29.6	34.5
14	*	28.8	26.1	26.9	18.6	25.1	25.5
15	37.7	27.9	26.6	26.5	18.0	24.8	28.2
16	45.2	44.5	39.7	45.2	33.5	41.3	42.2
17	25.7	19.0	19.9	19.9	14.9	11.6	20.1
18	33.7	32.4	33.6	37.6	30.0	22.3	33.3
19	28.1	25.4	24.0	24.8	25.8	22.6	25.5
20	24.5	26.7				21.6	24.8

Mean dry matter % as harvested: 89.3

\* No yields recorded