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# Memoranda of the Plan and Results of the Rothamsted Field Experiments, June 1862



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## Experiments on Wheat: Broadbalk

### Rothamsted Research

Rothamsted Research (1862) *Experiments on Wheat: Broadbalk* ; Memoranda Of The Plan And Results Of The Rothamsted Field Experiments, June 1862, pp 4 - 4 - DOI:

<https://doi.org/10.23637/ERADOC-1-230>

EXPERIMENTS ON THE GROWTH OF WHEAT YEAR AFTER YEAR ON THE SAME LAND; WITHOUT MANURE, AND WITH DIFFERENT KINDS OF MANURE, BROADBALK FIELD.

Previous Cropping—1839, Turnips, with Farmyard Manure; 1840, Barley; 1841, Peas; 1842, Wheat; 1843, Oats. The last four Crops Unmanured. First Experimental Wheat Crop in 1844. Wheat every year since; and with some exceptions, nearly the same description of Manures on the same Plots each year—especially during the last 10 years.

(Area under experiment, about 13 acres).

PLOTS.	Manures, per acre, for the growing (19th) Wheat-crop—1852.	Average Produce per Acre, per Annum, during the last ten Years, 1852-61.	
		Dressed Corn.	Total Straw.
0		bushels.	lbs.
1		17½	1106
2		16	995
3		34½	2145
4		15½	944
5 (a-b)		16½	1051
6 (a-b)		18½	1149
7 (a-b)		27½	1697
8 (a-b)		34½	2138
9 { a		36	2251
10 { b		31½	1967
11 (a-b)		24½	1509
12 (a-b)		21	1318
13 (a-b)		25½	1586
14 (a-b)		28½	1757
15 { a		33½	2086
16 (a-b)		33	2078
17 (a-b)		33½	2094
18 (a-b)		32	2007
19		33½	2108
20		37	2322
21		31½ (9)	1993 (9)
22		18½ (10)	1174 (10)
		31	1966
		15½	991
		21½	1329
		21	1300
			2253

(1) Since 1858, 200 lbs. Sulphate of Potass, 100 lbs. Sulphate of Soda, and 100 lbs. Sulphate of Magnesia; for Crop of 1857-8, and previously, 300 lbs., 200 lbs., and 100 lbs., respectively.  
 (2) 200 lbs. Bone-ash, 150 lbs. Sulphuric acid (Sp. gr. 1.7). (3) Equal parts Sulphate and Murate of Commerce. (4, 5, 6) For 1858, and previously 1½ time as much.  
 (7) The Manures of 17 and 18 alternate. (8) With Hydrochloric instead of Sulphuric Acid. (9) Average of 10 years' Ammonia-salts alternated with Mineral Manures.  
 (10) Average of 10 years' Mineral Manures alternated with Ammonia-salts.