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Memoranda of the Plan and Results of the Rothamsted Field Experiments - Supplement - June 1864



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Experiments on Wheat: Broadbalk Field

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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 12 years.

(Area under experiment about 13 acres.)

PLOTS.	PRODUCE PER ACRE.									
	Average per Acre, over 12 Years, 1852-1863.					Twenty-first Season, 1863.				
	Dressed Corn.					Dressed Corn.				
	Quantity.	Weight per Bushel.	Total Straw.	Quantity.	Weight per Bushel.	Quantity.	Weight per Bushel.	Total Straw.	Quantity.	Weight per Bushel.
0	Bush. pks.	lbs.	cwt.	Bush. pks.	lbs.	Bush. pks.	lbs.	cwt.	Bush. pks.	lbs.
1	18 1	57 1/2	15 1/2	16 1 1/2	57 1/2	22 0 3/4	62 1/2	16 1/2	22 0 3/4	62 1/2
2	35 1 1/2	59 1/2	34 1/2	35 1 1/2	59 1/2	44 0	63 1/2	38 1/2	44 0	63 1/2
3	15 2	56 1/2	14 1/2	15 2	56 1/2	17 1	62 1/2	14 1/2	17 1	62 1/2
4	16 3 1/2	57 1/2	15 1/2	16 3 1/2	57 1/2	20 1	62 1/2	14 1/2	20 1	62 1/2
5 (a-b)	18 1 1/2	58	17	18 1 1/2	58	19 2 3/4	63	15 1/2	19 2 3/4	63
6 (a-b)	38 1 1/2	58 1/2	27 1/2	38 1 1/2	58 1/2	39 2 3/4	62 1/2	38 1/2	39 2 3/4	62 1/2
7 (a-b)	53 1 1/2	58 1/2	37 1/2	53 1 1/2	58 1/2	55 2 3/4	62 1/2	52 1/2	55 2 3/4	62 1/2
8 (a-b)	38 0	57 1/2	42	38 0	57 1/2	55 2 3/4	62 1/2	59	55 2 3/4	62 1/2
9 { a b }	34 2	57	39 1/2	34 2	57	55 2 3/4	62 1/2	56 1/2	55 2 3/4	62 1/2
10 { a b }	25 3 1/2	55 1/2	28 1/2	25 3 1/2	55 1/2	41 1 1/2	62 1/2	37 1/2	41 1 1/2	62 1/2
11 (a-b)	22 2 1/2	56	23 1/2	22 2 1/2	56	39 0 1/2	62 1/2	31	39 0 1/2	62 1/2
12 (a-b)	26 3 1/2	57	27 1/2	26 3 1/2	57	43 2 1/2	62 1/2	36 1/2	43 2 1/2	62 1/2
13 (a-b)	29 2 1/2	56 1/2	28 3/4	29 2 1/2	56 1/2	45 3	62 1/2	38 1/2	45 3	62 1/2
14 (a-b)	35 0 1/2	58 1/2	35 1/2	35 0 1/2	58 1/2	54 0	62 1/2	48 1/2	54 0	62 1/2
15 { a b }	34 2	58 1/2	35 1/2	34 2	58 1/2	53 3 3/4	62 1/2	48	53 3 3/4	62 1/2
16 (a-b)	33 0 3/4	58 1/2	34	33 0 3/4	58 1/2	48 1 1/2	62 1/2	46	48 1 1/2	62 1/2
17 (a-b)	34 3 1/2	58 3/4	36	34 3 1/2	58 3/4	48 0	62 1/2	45 3/4	48 0	62 1/2
18 (a-b)	38 2	57 1/2	46	38 2	57 1/2	55 3 3/4	62 1/2	61 1/2	55 3 3/4	62 1/2
19	32 2 1/2 (9)	58 3/4 (9)	35 1/2 (9)	32 2 1/2 (9)	58 3/4 (9)	21 1 (11)	62 1/2 (11)	17 (11)	21 1 (11)	62 1/2 (11)
20	18 3 1/2 (10)	58 (10)	17 1/2 (10)	18 3 1/2 (10)	58 (10)	46 1 1/2 (12)	62 1/2 (12)	43 (12)	46 1 1/2 (12)	62 1/2 (12)
21	31 2 3/4	58	31 1/2	31 2 3/4	58	46 2 3/4	62 1/2	40 1/2	46 2 3/4	62 1/2
22	15 2 1/2	57	15 1/2	15 2 1/2	57	17 2 3/4	62 1/2	13 1/2	17 2 3/4	62 1/2
	22 0 3/4	58	21	22 0 3/4	58	27 2 1/2	62 1/2	22 1/2	27 2 1/2	62 1/2
	21 2 1/4	57 3/4	20 3/4	21 2 1/4	57 3/4	29 3	62 1/2	24	29 3	62 1/2

(1) Since 1858, 200 lbs. Sulphate of Potash, 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) The Manures of 17 and 18 alternate.

(4) With Hydrochloric instead of Sulphuric Acid.

(5) Average of 12 years' Mineral Manures for the Crop of 1863.

(6) Plots 17 had the Mineral Manures for the Crop of 1863.

(7) Plots 18 had the Ammonia-salts for the Crop of 1863.

(8) Plots 19 had the Ammonia-salts for the Crop of 1863.

(9) Plots 20 had the Ammonia-salts for the Crop of 1863.

(10) Plots 21 had the Ammonia-salts for the Crop of 1863.

(11) Plots 22 had the Ammonia-salts for the Crop of 1863.