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Rothamsted Research

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EXPERIMENTS ON WHEAT ALTERNATED WITH FALLOW, AND WHEAT GROWN CONTINUOUSLY.

The results given in the following Table show the produce of Wheat obtained on the Rothamsted soil for many years in succession, after bare fallow, compared with that of wheat grown continuously year after year on the same land, without the intervention of fallow; in both cases without manure.

Hoos-field, in which the experiments on alternate wheat and fallow are conducted, adjoins *Broadbalk-field*, in which wheat has now been grown continuously without manure (also with different descriptions of manure), for 55 years in succession; and the produce of the unmanured plot of that field, is compared with that grown in alternation with fallow, also without manure, in *Hoos-field*.

The description of seed sown has been the same in the two fields in the corresponding years; namely—for the crop of 1852 "Red Cluster"; for 28 years, 1854 to 1881 inclusive, "Red Rostock"; and for 1882 and since, "Club" or "Square Head" (Red).

During the first or preliminary period of 5 years, 1851-1855, the cropping of the acre set apart for the experiment on wheat alternated with fallow was as follows:—1851, Fallow (after wheat in 1850); 1852, Wheat; 1853, Fallow; 1854, Wheat; 1855, half Fallow, and half Wheat. From that time to the present the respective halves have been alternately fallow and wheat, giving therefore a crop of wheat succeeding fallow, on half the acre each year.

In the upper division of the Table are given the results for each of the five years of the preliminary period; and in the main division are recorded the results for each individual year of the exact experiment, from 1856 up to the present time.

In the first column of each main vertical division of the Table is given the produce *per* (Area under experiment, 1 acre.)

	Dressed Grain.			Weight per Bushel.			Total Grain.			Total Straw.			Total Produce (Grain and Straw).			
	Wheat after each year.	Wheat after Fallow each year.	After Fallow + or - after Wheat.	Wheat after each year.	Wheat after Fallow each year.	Wheat after each year.	Wheat after each year.	Wheat after Fallow each year.	After Fallow + or - after Wheat.	Wheat after each year.	Wheat after Fallow each year.	After Fallow + or - after Wheat.	Wheat after each year.	Wheat after Fallow each year.	After Fallow + or - after Wheat.	Wheat.
1851	Bushels. Fallow 37	Bushels. 157	Bushels. -157	lbs. 61.1	lbs. Fallow 56.6	lbs. 1083	lbs. Fallow 2088	lbs. 860	lbs. -1083	lbs. Fallow 4934	lbs. 1627	lbs. -1627	lbs. Fallow 7022	lbs. 2710	lbs. -2710	lbs. 1851
1852	Fallow 42	13 3/4	+ 23 1/4	53.0	Fallow 45.9	860	Fallow 2709	359	+ 1228	4384	1597	+ 3337	Fallow 7922	2457	+ 4565	1852
1853	42	21	+ 21	60.5	60.6	1359	1080	1072	- 359	Fallow 4545	1413	- 1413	Fallow 7922	1772	- 1772	1853
1854	17 3/4	17	+ 0 3/4	54.0	59.2	1072	1080	1072	+ 1350	1734	2137	+ 2408	2914	3496	+ 3758	1854
1855									+ 8		1787	- 53		2859	- 45	1855
PRELIMINARY PERIOD.																
PERIOD OF EXACT COMPARISON.																
1856	21 1/4	14 1/4	+ 7 1/4	60.0	54.3	1388	1388	892	+ 496	2113	1558	+ 555	3501	2450	+ 1051	1856
1857	38	20	+ 18	58.4	58.3	1236	2299	1236	+ 1063	3075	1577	+ 1498	5374	2813	+ 2561	1857
1858	25 3/4	18	+ 7 3/4	60.6	60.4	1141	1630	1141	+ 489	2468	1670	+ 798	4998	2811	+ 1287	1858
1859	34	18 1/4	+ 15 3/4	55.0	52.5	1376	1976	697	+ 925	3686	2175	+ 1511	5662	3226	+ 2436	1859
1860	12 1/2	12 1/2	- 0 3/4	54.8	52.6	738	1145	738	- 41	1226	1459	- 233	1923	2197	- 274	1860
1861	17 1/2	11 1/4	+ 6 1/4	58.8	57.4	736	1145	736	+ 409	2072	1254	+ 818	3217	1990	+ 1227	1861
1862	22 1/2	16	+ 6 1/2	57.1	57.8	996	1361	996	+ 365	2294	1713	+ 581	3955	2709	+ 946	1862
1863	32 1/2	17 1/2	+ 15 1/2	61.4	62.7	1127	2090	1127	+ 963	2900	1600	+ 1300	4990	2727	+ 2263	1863
1864	31 1/2	16 1/2	+ 14 3/4	61.7	62.0	1078	2005	1078	+ 927	2746	1350	+ 1396	4751	2428	+ 2323	1864
1865	24 1/2	13 1/2	+ 11	57.6	60.6	828	1440	828	+ 612	2150	1033	+ 1117	3590	1861	+ 1729	1865

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