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Yields of the Field Experiments 1876

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Experiments on Permanent Meadow Land; the Park

Rothamsted Research

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THE PARK.

EXPERIMENTS WITH DIFFERENT MANURES ON PERMANENT MEADOW LAND.

The Land has probably been laid down with Grass for some centuries. No fresh seed has been artificially sown within the last 40 years certainly; nor is there record of any having been sown since the Grass was first laid down. The experiments commenced in 1856, at which time the character of the herbage appeared uniform over all the Plots. Excepting as explained in the Table and in the foot-notes, the same description of Manure has been applied year after year to the same Plot.

(Area under experiment, about 7 acres.)

PLOTS.	MANURES, per acre, per Annum.										PRODUCE PER ACRE, WEIGHED AS HAY.						
											Average per Annum.		Twentieth Season, 1875 (3).				
	10 Years, 1866-75. (15)	10 Years, 1866-75. (15)	20 Years, 1866-75. (15)	10 Years, 1866-75. (15)	10 Years, 1866-75. (15)	10 Years, 1866-75. (15)	10 Years, 1866-75. (15)	10 Years, 1866-75. (15)	10 Years, 1866-75. (15)	10 Years, 1866-75. (15)	10 Years, 1866-75. (15)	10 Years, 1866-75. (15)	20 Years, 1866-75. (15)	First Crop.	Second Crop.	Total.	
1	1856-63, 8 years, 14 tons Farmyard Manure, and 200 lbs. Ammonia-salts; average produce 49 1/2 cwts. (1864 and since, 200 lbs. Ammonia-salts alone; average produce 19 1/2 cwts., 1864-75) 4 1/2 cwts.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	1856-63, 8 years, 14 tons Farmyard Manure; average produce 42 1/2 cwts. (1864 and since, unmanured; average produce 19 1/2 cwts., 1864-75) 3 1/2 cwts.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	Unmanured, continuously	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4 (1)	3 1/2 cwts. Superphosphate of Lime (9)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4 (2)	3 1/2 cwts. Superphosphate of Lime (9)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	400 lbs. Ammonia-salts	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	(1856-68, 13 years, 400 lbs. Ammonia-salts; average produce 30 1/2 cwts. (1869 and since, 300 lbs. Sulph. Potass., 100 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3 1/2 cwts. Superphos.; av. prod. (4-7 yrs., 1869-75) 3 1/2 cwts.)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	300 lbs. Sulphate Potass., 100 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, and 3 1/2 cwts. Superphosphate	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	(1856-61, 6 years, 300 lbs. Sulph. Potass., 200 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, and 3 1/2 cwts. Superphosphate; average produce 36 cwts. (1862 and since, 250 lbs. Sulph. Soda, 100 lbs. Sulphate Magnesia, and 3 1/2 cwts. Superphosphate; average produce (13 years, 1862-75) 2 1/2 cwts.)
9	300 lbs. Sulphate Potass., 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, 3 1/2 cwts. Superphosphate, and 400 lbs. Ammonia-salts	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	(1856-61, 6 yrs., 300 lbs. Sulph. Potass., 200 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3 1/2 cwts. Superphosphate, and 400 lbs. Ammonia-salts; av. prod. 55 1/2 cwts. (1862 and since, 250 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3 1/2 cwts. Superphosphate, 400 lbs. Ammonia-salts; av. prod. 55 1/2 cwts.)
11 (1)	300 lbs. Sulph. Potass., 100 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3 1/2 cwts. Superphosphate, 800 lbs. Ammonia-salts	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11 (2)	300 lbs. Sulph. Potass., 100 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3 1/2 cwts. Superphosphate, 800 lbs. Ammonia-salts, and 400 lbs. Silicate Soda (9)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	Unmanured continuously	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	300 lbs. Sulph. Potass., 100 lbs. Sulph. Soda, 100 lbs. Sulph. Magnesia, 3 1/2 cwts. Superphosphate, 400 lbs. Ammonia-salts, and 2000 lbs. Cut Wheat-straw	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	550 lbs. Nitrate of Soda (9), 300 lbs. Sulphate Potass., 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3 1/2 cwts. Superphosphate	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	(1858-75, 18 years, 550 lbs. Nitrate of Soda (9), 300 lbs. Sulphate Potass., 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3 1/2 cwts. Superphosphate	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	275 lbs. Nitrate of Soda, 300 lbs. Sulphate Potass., 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3 1/2 cwts. Superphosphate	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	Mixture supplying the quantity of Potass., Soda, Lime, Magnesia, Phosphoric acid, Silica, and Nitrogen, contained in 1 ton of Hay (commencing 1865)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	275 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass., and 3 1/2 cwts. Superphosphate (commencing 1872)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	327 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass., and 3 1/2 cwts. Superphosphate (commencing 1872)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	327 lbs. Nitrate of Soda, and 3 1/2 cwts. Superphosphate (commencing 1872)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(9) The manures specified were first applied in 1859 (previously, 1856-7 and 8, Sawdust only).
 (10) Averages of 8 years, 10 years, and 18 years, as these experiments did not commence until 1858.
 (11) Averages of 10 years only, 1872-75.
 (12) Averages of 4 years only, 1874-75.
 (13) In previous years the second crop has either been fed off by sheep, without other food, or mown and left on the ground; but in the twentieth season, 1875, it was so unusually heavy, that it was cut, weighed as hay, and removed.
 (14) The second crop of the twentieth season (1875) is not included in these averages, as in all other years the first crop only was weighed and removed.