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## Yields of the Field Experiments 1878



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## **Experiments on Potatoes; Hoos Field**

## **Rothamsted Research**

Rothamsted Research (1879) *Experiments on Potatoes; Hoos Field ;* Yields Of The Field Experiments 1878, pp 19 - 19 - **DOI:** https://doi.org/10.23637/ERADOC-1-242

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## EXPERIMENTS ON POTATOES.—HOOS FIELD; commencing 1876.

The Land had been under experiments with Wheat, differently manured, from 1856 to 1874; and was fallowed in 1875.

Plots 1, 2, 3, and 4 had been unmanured for the Wheat. Plots 5 and 6 had received the same quantity of Ammonia-salts alone every year for the Wheat, as Plot 5 now receives for potatoes: Plot 6 now receiving the same amount of nitrogen, but as Nitrate of Soda, instead of Ammonia-salts. Plots 7 and 8 received the same amount of complex mineral manure, and Ammonia-salts, for the Wheat, as Plot 7 now receives for potatoes; and Plot 8 now receives the same complex mineral manures, and the now receives for potatoes: Plots 9 now receives superphosphate only (3). Description of Printings (Bods). Plots 9 now receives for potatoes for plots form that the same complex mineral manures alone for the Wheat as Plot 10 now receives for potatoes: Plot 9 now receives superphosphate only (3). Description of Printings (Bods).

PLOTS.	Manures per Acre per Annum,	PRODUCE PER ACRE.				
		Tubers.				
		Good,	Small,	Diseased.	TOTAL.	Tops.
_	First Season, 1876. Potatoes planted, June 10-13; Crop taken up,	Oct. 30-3	1.	= 0:		
1 2 3 4 5 6 6 7 8 9	Unmanured Farmyard Manure (14 tons) Farmyard Manure (14 tons), and 3½ cwts. Superphosphate (*) Farmyard Manure (14 tons), 3½ cwts. Superphosphate, and 550 lbs. Nitrate of Soda 400 lbs. Ammonia-salts (*) 550 lbs. Nitrate of Soda 400 lbs. Ammonia-salts, 3½ cwts. Superphos., 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 550 lbs. Nitrate of Soda, 3½ cwts. Superphos., 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 3½ cwts. Superphosphate 3½ cwts. Superphosphate, 300 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, and 100 lbs. Sulphate Magnesia	Tons, cwts. 3 64 4 14 24 4 5 9 4 4 2 5 6 12 12 2 6 17 2 2 5 4 18 2 2 5 3 2 5 3 2 5 3 2 5 5 3 2 5 5 5 3 2 5 5 5 5	Tons. cwts 0 5½ 0 4 0 6½ 0 6½ 0 5½ 0 0 5½ 0 0 9½ 0 10 0 8½ 0 6¾	Tons, cwts, 0 534 0 3514 0 1912 0 6 0 978 1 0 134 0 134 0 134	Tons. cwts. 3 17\frac{1}{4} 4 55\frac{1}{4} 5 62\frac{1}{4} 2 18 3 17\frac{1}{5} 8 2 8 15\frac{1}{5} 6 1 6 3\frac{5}{5} 6 3\frac{5}{5} 6 1	Withered, not weighed, each lot spread on its own Plot and ploughed in.
	Second Season, 1877. Potatoes planted, April, 27–28; Crop taken u	p, Oct. 8–1	0.			
1 2 3 4 5 6 7 8 9	Unmanured Farmyard Manure (14 tons) Farmyard Manure (14 tons), and 3½ cwts. Superphosphate (') Farmyard Manure (14 tons), 3½ cwts. Superphosphate, and 550 lbs. Nitrate of Soda 400 lbs. Ammonia-salts, 5½ cwts. Superphos, 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 550 lbs. Nitrate of Soda 400 lbs. Ammonia-salts, 3½ cwts. Superphos., 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 550 lbs. Nitrate of Soda, 3½ cwts. Superphos., 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 3½ cwts. Superphosphate 3½ cwts. Superphosphate, 300 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, and 100 lbs. Sulphate Magnesia.	2 111 5 03 4 131 6 183	Tons. cwts 0 634 0 1114 0 774 0 7 0 7 0 7 0 634 0 114 0 834 0 1134 0 712	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tons. cwis. 3 $0\frac{1}{2}$ 5 18 5 $4\frac{3}{4}$ 4 1 1 7 $17\frac{1}{2}$ 8 $13\frac{3}{4}$ 3 6 3 $15\frac{1}{2}$	Withered, not weighed, each lot spread on its own Plot, but high wind (Oct. 14th) blew all off, before ploughing.
	THIRD SEASON, 1878. Potatoes planted, April 29. Crop taken	пр.		av T		
1 2 3 4 5 6 7 8 9	Unmanured  Farmyard Manure (14 tons)  Farmyard Manure (14 tons), and 3½ cwts. Superphosphate (¹)  Farmyard Manure (14 tons), 3½ cwts. Superphosphate, and 550 lbs. Nitrate of Soda  400 lbs. Ammonia-salts (²)  550 lbs. Nitrate of Soda  400 lbs. Ammonia-salts, 3½ cwts. Superphos., 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 550 lbs. Nitrate of Soda, 3½ cwts. Superphos., 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 3½ cwts. Superphosphate  3½ cwts. Superphosphate, 300 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, and 100 lbs. Sulphate Magnesia	Tons. cwts.  2	Tons. ewis. 0 18 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	Tons. cwts. 9 4 2 9 n 8 5 0 n 8 5 0 n 13 4 1 n 6 4 0 n 5 3 0 4 9 8 0 1 3 4 0 1 3 4 0 1 4 4	Tons. cwis. 2 4 712 5 11 113 7 1 94 3 1 102 4 1 132 8 11 175 9 1 4 14 4 1 18 5 1 1 18 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tons, syts. 7/ 0 " 6 3 0 " 6 3 0 " M 1 " 6 6 0 " 1 7 8 0 " 1 1 8 0 " 1 1 8 0 " 1 1 8 0 " 1 4 3 0 " 1 4 3 0 " 1 4 3
1	Fourth Season, 1879.					
6 7 8	Unmanured Farmyard Manure (14 tons) Farmyard Manure (14 tons), and 3½ cwts. Superphosphate (*) Farmyard Manure (14 tons), and 3½ cwts. Superphosphate (*) Farmyard Manure (14 tons), 3½ cwts. Superphosphate, and 550 lbs. Nitrate of Soda 400 lbs. Ammonia-salts (*) 550 lbs. Nitrate of Soda 400 lbs. Ammonia-salts, 3½ cwts. Superphos, 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 550 lbs. Nitrate of Soda, 3½ cwts. Superphos, 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 3½ cwts. Superphosphate 3½ cwts. Superphosphate, 300 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, and 100 lbs. Sulphate Magnesia	Tons, cwts.	Tons. cwts.	Tons. cwts.	Tons. cwts.	Tons. cwts.
- 12	Fifth Season, 1880.	1 62			Til	
2 3 4 5 6 7 8	Unmanured Farmyard Manure (14 tons) Farmyard Manure (14 tons), and 3½ cwts. Superphosphate (1) Farmyard Manure (14 tons), 3½ cwts. Superphosphate, and 550 lbs. Nitrate of Soda 100 lbs. Ammonia-salts (2) 550 lbs. Nitrate of Soda 100 lbs. Ammonia-salts, 3½ cwts. Superphos, 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 550 lbs. Nitrate of Soda 100 lbs. Ammonia-salts, 3½ cwts. Superphos, 300 lbs. Sulph. Potass, 100 lbs. Sulph. Soda, 100 lbs. Sulph. Mag. 101 cwts. Superphosphate 102 cwts. Superphosphate, 300 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, and 100 lbs. Sulphate Magnesia	Fons. cwts. T	ons, cwts.	Tons. cwts.	ons. cwts.	Tons. cwts.