

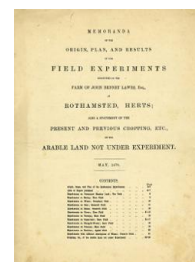
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1878

[Full Table of Content](#)



Experiments on Barley; Hoos Field

Rothamsted Research

Rothamsted Research (1879) *Experiments on Barley; Hoos Field* ; Yields Of The Field Experiments 1878, pp 9 - 9 - DOI: <https://doi.org/10.23637/ERADOC-1-242>

HOOS FIELD.

EXPERIMENTS ON THE GROWTH OF BARLEY YEAR AFTER YEAR ON THE SAME LAND, WITHOUT MANURE, AND WITH DIFFERENT KINDS OF MANURE.

Previous Cropping—1847, Swedish Turnips, with Dung and Superphosphate of Lime, the Roots carted off; 1848, Barley; 1850, Wheat; 1851, Barley manured with Ammonia-salts. First Experimental Barley Crop in 1852. Barley every year since; and, unless stated to the contrary in the Table, or in the foot-notes, the same Manure has been applied year after year to the same Plot.

(Area under experiment, about 44 acres.)

Plots.	PRODUCE PER ACRE.												Plows.
	Average per Annum.						Twenty-sixth Season, 1877.						
	Dressed Corn.			Total Straw.			Dressed Corn.			Total Straw.			
	Quantity.		Weight per Bushel.	Quantity.		Weight per Bushel.	Quantity.		Weight per Bushel.	Quantity.		Weight per Bushel.	
	12 Years, 1862-83.	24 Years, 1862-76.	12 Years, 1862-63.	24 Years, 1864-76.	12 Years, 1862-76.	24 Years, 1864-76.	12 Years, 1862-63.	24 Years, 1864-76.	12 Years, 1862-76.	24 Years, 1864-76.	12 Years, 1862-76.	24 Years, 1864-76.	
	Bushels.	Bushels.	Cwts.	Bushels.	Cwts.	Bushels.	Cwts.	Bushels.	Cwts.	Bushels.	Cwts.		
	21½	21½	12½	21½	12½	21½	12½	21½	12½	21½	12½		
	27½	27½	14½	27½	14½	27½	14½	27½	14½	27½	14½		
	24½	24½	13½	24½	13½	24½	13½	24½	13½	24½	13½		
	30½	30½	15½	30½	15½	30½	15½	30½	15½	30½	15½		
	34½	34½	17½	34½	17½	34½	17½	34½	17½	34½	17½		
	47½	47½	23½	47½	23½	47½	23½	47½	23½	47½	23½		
	47½	47½	23½	47½	23½	47½	23½	47½	23½	47½	23½		
	47½	47½	23½	47½	23½	47½	23½	47½	23½	47½	23½		
	47½	47½	23½	47½	23½	47½	23½	47½	23½	47½	23½		
	39½	39½	20½	39½	20½	39½	20½	39½	20½	39½	20½		
	50½	50½	25½	50½	25½	50½	25½	50½	25½	50½	25½		
	50½	50½	25½	50½	25½	50½	25½	50½	25½	50½	25½		
	50½	50½	25½	50½	25½	50½	25½	50½	25½	50½	25½		
	37½	37½	19½	37½	19½	37½	19½	37½	19½	37½	19½		
	42	42	21½	42	21½	42	21½	42	21½	42	21½		
	42	42	21½	42	21½	42	21½	42	21½	42	21½		
	44½	44½	22½	44½	22½	44½	22½	44½	22½	44½	22½		
	44½	44½	22½	44½	22½	44½	22½	44½	22½	44½	22½		
	47½	47½	23½	47½	23½	47½	23½	47½	23½	47½	23½		
	47½	47½	23½	47½	23½	47½	23½	47½	23½	47½	23½		
	33½	33½	18½	33½	18½	33½	18½	33½	18½	33½	18½		
	39½	39½	20½	39½	20½	39½	20½	39½	20½	39½	20½		
	48½	48½	24½	48½	24½	48½	24½	48½	24½	48½	24½		
	48½	48½	24½	48½	24½	48½	24½	48½	24½	48½	24½		
	47	47	22½	47	22½	47	22½	47	22½	47	22½		
	42	42	21½	42	21½	42	21½	42	21½	42	21½		
	44½	44½	22½	44½	22½	44½	22½	44½	22½	44½	22½		
	47½	47½	23½	47½	23½	47½	23½	47½	23½	47½	23½		
	38½	38½	20½	38½	20½	38½	20½	38½	20½	38½	20½		
	48½	48½	24½	48½	24½	48½	24½	48½	24½	48½	24½		
	48½	48½	24½	48½	24½	48½	24½	48½	24½	48½	24½		
	18½	18½	9½	18½	9½	18½	9½	18½	9½	18½	9½		
	45½	45½	23½	45½	23½	45½	23½	45½	23½	45½	23½		
	25½	25½	13½	25½	13½	25½	13½	25½	13½	25½	13½		
	24½	24½	13½	24½	13½	24½	13½	24½	13½	24½	13½		
	24	24	13	24	13	24	13	24	13	24	13		
	48½	48½	24½	48½	24½	48½	24½	48½	24½	48½	24½		
	46½	46½	23½	46½	23½	46½	23½	46½	23½	46½	23½		

(1) The "Superphosphate of Lime" is, in all cases, made from 200 lbs. Bone-ash, 150 lbs. Sulphuric acid sp. gr. 1.7 (and water).
 (2) 300 lbs. per annum for the first six years, 1852-7.
 (3) 200 lbs. per annum for the first six years, 1852-7.
 (4) The "Ammonia-salts" in all cases equal parts Sulphate and Muriate of Ammonia of Commerce.
 (5) First 6 yrs, 1852-7, instead of Nitrate of Soda, 400 lbs. Ammonia-salts per annum; next 10 yrs, 1858-67, 200 lbs. Ammonia-salts per annum; 1868, and since, 275 lbs. Nitrate of Soda per annum. 275 lbs. Nitrate of Soda is reckoned to contain the same amount of Nitrogen as 200 lbs. "Ammonia-salts."
 (6) The application of Silicates did not commence until 1864; in 1864-5-6 and 7, 200 lbs. Silicate of Soda; and 200 lbs. Silicate of Lime were applied per acre, but in 1868, and since, 400 lbs. Silicate of Soda, and no Silicate of Lime. These plots ("AAS") comprise, respectively, one half of the original "AA" plots, and, excepting the addition of the Silicates, have been, and are, in other respects, manured in the same way as the "A" plots.
 (7) 300 lbs. Rape-cake per annum for the first six years, and 1000 lbs. only, each year since.
 (8) 200 lbs. Silicate of Potash, and 3½ cwts. Superphosphate of Lime, without Nitrate of Soda, the first year (1852); Nitrate of Soda, 200 lbs., each year since.
 (9) 550 lbs. Nitrate of Soda for 1858-4-5-6, and 7; and 275 lbs. only, each year since.
 (10) Ammonia-salts also the first year, but not since.
 (11) Averages of 11 years, 12 years, and 25 years.
 (12) Averages of 6 years, 12 years, and 18 years.
 (13) Averages of 20 years (with dung), 4 years (unmanured), and 24 years.