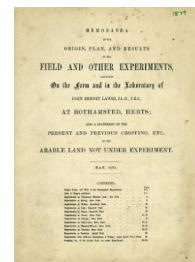


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ROTHAMSTED  
RESEARCH

# Memoranda of the Field Experiments at Rothamsted: May 1879



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## Cropping, &c. , of the Arable Land Not Under Experiment; Rothamsted Farm

### Rothamsted Research

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ROTHAMSTED

MAY,

SUMMARY STATEMENT OF THE PRESENT AND PREVIOUS

(14 Years, 1866-1879,

PREVIOUS CROPPING

Name of Field.	Acres.	1866.	1867.	1868.	1869.	1870.	1871.	1872.	1873.
Thirty Acres	30	Tares and Swedes, Dung and Artificial.	Oats, after Sheep-Folding.	Clover.	Wheat, 2 cwt. Guano.	Oats, 2 cwt. Guano.	Barley, 2 cwt. superphos., 2 cwt. Nitrate Soda.	Barley, 2½ cwt. superphos., 2½ cwt. Nitr. Soda, (2½ acres experiment).	Barley (¾ with Grass-seeds), 2 cwt. superphosphate, 2 cwt. Nitrate Soda.
Harpندن	22	Red Clover (peren.), Unmanured.	Wheat, 2½ cwt. Guano.	Oats, (2 cwt. Guano, & 1 cwt. Nitr. Soda. ¼ rd. 1 cwt. Nitr. Soda. and Sheep-folded.	Swedes, Dung and various Artificial Manures.	Wheat, 3 cwt. Guano.	Oats, 3 cwt. Guano, 1 cwt. Nitrate Soda. Tares, Dung.	Oats, 2½ cwt. superphos., 2½ cwt. Nitr. Soda. Tares, Dung.	Barley, After Oats—2 cwt. superphosphate; 2 cwt. Nitrate. After Tares—1 cwt. superphosphate; 1 cwt. Nitrate.
Little Hoos	9	Mangolds, Dung and Artificial.	Wheat, Unmanured.	Oats, 2 cwt. Guano, 1 cwt. Nitrate of Soda.	Barley, 1 cwt. dried Blood, ½ cwt. Sulph. Ammonia, 1 cwt. superphosphate.	Barley, 2½ cwt. Guano.	Barley, 3 cwt. superphos., 2½ cwt. Nitrate Soda.	Barley (with Clover), 2½ cwt. superphos., 2½ cwt. Nitr. Soda.	Barley (¾), Unmanured. Clover (¾), Unmanured.
Fosters'	18	Red Clover, Unmanured.	Wheat, 2 cwt. Guano, ½ cwt. Corn Manure.	Oats, 2 cwt. Guano, 1 cwt. Nitrate of Soda.	Barley, 1 cwt. dried Blood, ½ cwt. Sulph. Ammonia, 1 cwt. superphosphate.	Oats, 2 cwt. Guano, 3 cwt. Blood Manure.	Roots, Tares, and Rape, Dung and Artificial.	Wheat, Varieties of Wheat, 2 cwt. superphos., 2 cwt. Nitr. Soda, ¾ Sheep-folded.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda (2 acres experiment).
Knott Wood	30	Oats, 2 cwt. Guano, 1 cwt. Sulph. Ammonia.	Oats, 2 cwt. Guano, 1 cwt. Sulph. Ammonia.	Swedes, 2 cwt. Guano, 2½ cwt. superphosphate and Dung.	Wheat, 3 cwt. Guano (one-half), Unmanured (one-half), after Swedes ploughed up and Fallowed.	Oats, 3 cwt. Guano.	Oats, 3 cwt. Guano, 1 cwt. Nitrate Soda.	Oats, 2½ cwt. superphos., 2½ cwt. Nitr. Soda.	Tares (¾), Dung. Swedes (¾), Dung, 2 cwt. superphosph.; 2 cwt. Nitrate Soda.
Little Knott Wood	14	Red Clover (peren.), Sheep-Folded.	Wheat, 1 cwt. Guano, ½ cwt. Corn Manure.	Oats, 2 cwt. Guano, 1 cwt. Nitrate Soda.	Mangolds, 12 tons Dung, 3 cwt. Guano.	Wheat, 3 cwt. Guano.	Oats, 3 cwt. Guano, 1 cwt. Nitrate Soda.	Oats, ½ Sheep-folded. All, 2½ cwt. super., 2½ cwt. Nitr. Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.
Sawpit	14	Wheat, Unmanured.	Red Clover, Unmanured.	Wheat, 1 cwt. Guano, 1 cwt. Wheat Manure.	Wheat, 3 cwt. Guano.	Mangolds, Dung and 3 cwt. Guano.	Wheat, 3 cwt. Guano.	Oats, 2½ cwt. superphos., 2½ cwt. Nitr. Soda.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.
Rick-yard	8	Red Clover, Sheep-Folded.	Wheat, Guano.	Barley, 2 cwt. Wheat Manure.	Tares, Dung.	Barley, 1 cwt. Guano.	Mangolds, Dung and 4 cwt. Cotton Cake.	Wheat, Unmanured.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.
Six Acres	6	Wheat, 2 cwt. Guano, 2 cwt. Corn Manure.	Oats, 3 cwt. Guano.	Beans, Dung.	Wheat, 2 cwt. Guano, 1 cwt. Nitrate of Soda.	Barley, 2½ cwt. Guano.	Barley, 3 cwt. superphos., 2½ cwt. Nitrate Soda.	Barley, 2½ cwt. superphos., 2½ cwt. Nitr. Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.
Clay-Croft	12	Oats, 2 cwt. Guano, 1 cwt. Sulph. Ammonia.	Beans, Dung.	Wheat, 2 cwt. Guano.	Oats, 2 cwt. Guano, 1 cwt. dried Blood, ½ cwt. Sulph. Ammonia.	Turnips, Dung and 3 cwt. superphosphate.	Wheat, Unmanured.	Oats, 2½ cwt. superphos., 2½ cwt. Nitr. Soda.	Clover, Unmanured.
Ten Acres	10	Turnips, Artificial.	Wheat, Guano.	Red Clover.	Wheat, 2 cwt. Guano.	Oats, 3 cwt. Guano.	Mangolds, Dung and 4 cwt. Cotton Cake.	Wheat, Unmanured.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda (5 acres experiment).
Agdell	9	Wheat, 1½ cwt. Guano, 1½ cwt. Corn Manure.	Oats, 2 cwt. Guano.	Tares, Dung.	Barley, Unmanured.	Barley, 1½ cwt. Guano, 1½ cwt. superphosphate.	Mangolds, Dung and 4 cwt. Cotton Cake.	Wheat, Unmanured (and part Roots).	Clover, Unmanured. Barley, Experiment.
Long Hoos	25	Barley, 1½ cwt. Guano, 1 cwt. Corn Manure.	Mangolds and Swedes, 15 tons Dung, 3 cwt. Guano.	Wheat, 1 cwt. Guano.	Oats, 2 cwt. Guano, 1 cwt. dried Blood, ½ cwt. Sulph. Ammonia.	Sainfoin, Unmanured.	Sainfoin, Unmanured. (Steam cultivated, July.)	Mangolds, Dung. (Carted off.)	Wheat, (½ Varieties of Wheat), 1½ cwt. Nitrate Soda.
Sawyers'	25	Wheat and Barley, Sheep-Folded.	Red Clover, Unmanured.	Wheat, 3 cwt. Guano.	Fallow.	Wheat, 4 cwt. Guano.	Wheat, 4 cwt. Guano, 1 cwt. Nitrate Soda.	Barley, 2½ cwt. superphos., 2½ cwt. Nitr. Soda.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.
West Barn	30	Wheat, 1½ cwt. Guano, 1½ cwt. Corn Manure.	Barley, 1 cwt. Blood Manure, 1 cwt. superphosphate, 1 cwt. Sulph. Ammonia.	Fallow.	Wheat, 3 cwt. Guano.	Sainfoin, Unmanured.	Sainfoin, Unmanured.	Sainfoin, Unmanured.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.



FARM.

1879.

CROPPING, &c., OF THE ARABLE LAND NOT UNDER EXPERIMENT.

inclusive.)

AND MANURING.					Crops, &c., Present Season, 1878-'79.	Acres.	Name of Field.
1874.	1875.	1876.	1877.	1878.			
Grass (3). Folded, and 1 cwt. Nitrate. Barley (3). 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.	Grass (3). Sheep-folded. Tares (2) Dung.	Grass (3). Compost. Wheat (1). 1 cwt. Nitrate Soda.	Grass (3). Cattle Grazed. Barley (1). 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Grass (3). Cattle Grazed with Cotton-Cake. Tares (2). Dung.	Grass (3). Cattle Grazed with Cotton-Cake. Barley (3). 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	30	Thirty Acres
Barley. 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Mangolds, Dung, and 2 cwt. Guano. (Carted off.)	Wheat (Varieties), 2 cwt. Nitrate Soda.	Barley. 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley (with Clover), 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Clover. Unmanured.		22
Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda (1 acre Unmanured).	Barley, where Barley 1873, 2 cwt. superphosphate, 2 cwt. Nitrate of Soda. where Clover 1873, Half quantities.	Barley 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda (½ with Clover).	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda (½ with Clover).	Barley (3). 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda. Clover (1), Unmanured. Two crops as hay.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	9	Little Hoos.
Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley, (1) 3½ cwt. Guano, (2) 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda, (3) 1½ cwt. Guano, 1½ Nitrate.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	White Turnips, Dung. Superphosphate, ½ cwt. Nitrate Soda ; part fed, part carted.	Wheat (Varieties). 2 cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	18	Fosters'.
Barley, After Roots and Tares carted, 2 cwt. superphosphate, 2 cwt. Nitrate Soda, After Tares fed, 1 cwt. each.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 3 cwt. Nitrate Soda.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Roots (1). Dung and Artificial. (Carted off). Fallow (1).	Wheat (3). 2 cwt. Nitrate Soda. Barley (1). 2 cwt. superphosphate, 2 cwt. Nitrate Soda (all with Clover).	3	Knott Wood.
Mangolds, Dung. (Carted off.)	Wheat (Varieties), 1½ cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 3 cwt. Nitrate Soda.	Oats (with Clover). 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Clover, Unmanured. First and second crops as hay; afterwards fed.	Wheat (Varieties), 2 cwt. Nitrate Soda.	14	Little Knott Wood.
Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Mangolds, 25 tons Dung. (Carted off.)	Wheat (Varieties), 1½ cwt. Nitrate Soda.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	14	Sawpit.
Tares, Dung. ½ followed by Turnips, 1 cwt. superphosphate, 1 cwt. Nitrate Soda.	Barley, 1 cwt. Nitrate Soda.	Swedes, Dung, and Superphosphate.	Barley, 1 cwt. Nitrate Soda.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley (3). 2 cwt. superphosphate, 2 cwt. Nitrate Soda. Cabbage (1). Dung.	8	Rick-yard.
Barley, 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley (with Clover), 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Clover, Unmanured. Two crops as hay.	Wheat. 2 cwt. Nitrate Soda.	6	Six Acres.
Wheat, 2 cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Fallow.	Wheat, 2 cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	12	Clay-Croft.
Oats, 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Fallow.	Wheat (with Clover), 2 cwt. Nitrate Soda.	Clover, Unmanured. Two crops as hay.	Barley, 2 cwt. Nitrate Soda (with Grass Seeds).	10	Ten Acres.
Wheat, 1 cwt. Nitrate Soda (3 acres Experiment, ½ Clover, ½ Fallow).	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda. Wheat, 3 acres, Experiment.	Barley, 2½ cwt. superphosphate, 3 cwt. Nitrate Soda. Swedes, 3 acres, Experiment.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda. Barley, 3 acres experiment.	Potatos. Dung and Artificial. (3 acres experiment ½ Beans, ½ Fallow.)	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda (3 acres Experiment, Wheat).	9	Agdell.
Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Oats (3). 2½ cwt. superphosphate, 3 cwt. Nitrate Soda. Tares (1). Dung.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	25	Long Hoos.
Mangolds and Swedes, Dung.	Barley after Swedes (3) 2 cwt. superphosphate, 2 cwt. Nitrate Soda. Wheat after Mangolds (4) 1½ cwt. Nitrate Soda.	Barley (with Clover), 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley (3). 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda. Tares (1). Dung.	Barley, (3) 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda, (4) 2½ cwt. Nit. Soda alone.	Roots, 25 tons Dung, 1 cwt. Nitrate Soda.	25	Sawyers'.
Wheat (Oats fed off 1873), 1½ cwt. Nitrate Soda.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Oats, 2 cwt. superphosphate, (1) 1½ Nitrate Soda, (1) 2½ Nitrate Soda.	Fallow.	Wheat, 2 cwt. Nitrate Soda.	Winter Oats, 2 cwt. Nitrate Soda.	30	West Barn.