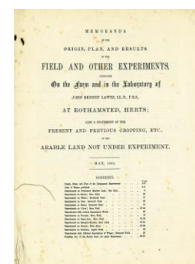


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ROTHAMSTED  
RESEARCH

# Memoranda of the Field Experiments at Rothamsted: May 1881



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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

(13 Years, 1869-1881,

PREVIOUS CROPPING

Name of Field.	Acres.	1869.	1870.	1871.	1872.	1873.	1874.	1875.
Thirty Acres	30	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 (½ with Grass-seeds). 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Grass (½), Folded, and 1 cwt. Nitrate. Barley (¾), 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.	Grass (¾), Sheep-folded. Tares (½) Dung.
Harpenden	22	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. super- phosphate; 2 cwt. Nitrate. After Tares—1 cwt. super- phosphate; 1 cwt. Nitrate.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Mangolds, Dung, and 2 cwt. Guano. (Carted off.)
Little Hoos	9	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 (¼), Unmanured.	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.
Fosters'	18	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).	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.
Knott Wood	30	Wheat, 3 cwt. Guano (one-half), Unmanured (one-half), after Swedes ploughed up and Followed.	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.	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.
Little Knott Wood	14	Mangolds, 12 tons Dung, 3 cwt. Guano.	Wheat, 3 cwt. Guano.	Oats, 3 cwt. Guano, 1 cwt. Nitrate Soda.	Oats, ¾ Sheep-folded. All, 2½ cwt. super, 2½ cwt. Nitr. Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Mangolds, Dung, (Carted off.)	Wheat (Varieties), 1½ cwt. Nitrate Soda.
Sawpit	14	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.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.
Rick-yard	8	Tares, Dung.	Barley, 1 cwt. Guano.	Mangolds, Dung and 4 cwt. Cotton Cake.	Wheat, Unmanured.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Tares, Dung, ½ followed by Turnips, 1 cwt. superphosphate, 1 cwt. Nitrate Soda.	Barley, 1 cwt. Nitrate Soda.
Six Acres	6	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.	Barley, 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.
Clay-Croft	12	Oats, 2 cwt. Guano, 1 cwt. dried Blood, ½ cwt. Sulph. Ammonia.	Turnips, Dung and 3 cwt. super- phosphate.	Wheat, Unmanured.	Oats, 2½ cwt. superphos., 2½ cwt. Nitr. Soda.	Clover, Unmanured.	Wheat, 2 cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.
Ten Acres	10	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).	Oats, 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.
Agdell	9	Barley, Unmanured.	Barley, 1½ cwt. Guano, 1½ cwt. super- phosphate.	Mangolds, Dung and 4 cwt. Cotton Cake.	Wheat, Unmanured (and part Roots).	Clover, Unmanured. Barley, Experiment.	Wheat, 1 cwt. Nitrate Soda (3 acres Experiment, ½ Clover, ½ Fallow).	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda. Wheat, 3 acres, Experiment.
Long Hoos	25	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.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.
Sawyers'	25	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.	Mangolds and Swedes, Dung.	Barley after Swedes (¾) 2 cwt. superphosphate, 2 cwt. Nitrate Soda. Wheat after Mangolds (¾) 1½ cwt. Nitrate Soda.
West Barn	30	Wheat, 3 cwt. Guano.	Sainfoin, Unmanured.	Sainfoin, Unmanured.	Sainfoin, Unmanured.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Wheat (Oats fed off 1873), 1½ cwt. Nitrate Soda.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.

FARM.

1881.

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

AND MANURING.					Crops, &c., Present Season, 1880-81.	Acres.	Name of Field.
1876.	1877.	1878.	1879.	1880.			
Grass (3/4), Compost. Wheat (1/2), 1 cwt. Nitrate Soda.	Grass (3/4), Cattle Grazed. Barley (1/2), 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Grass (3/4), Cattle Grazed with Cotton-Cake. Tares (1/2), Dung.	Grass (3/4), Cattle Grazed with Cotton-Cake. Barley (1/2), 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Grass (3/4), Cattle Grazed with Cotton-Cake. Wheat (1/2), (Varieties), 50 bushels Soot. Mangolds (1/2), 15 tons Dung & 3 cwt. Guano. (Carted off).	Grass (3/4), Cattle Grazed with Cotton-Cake, Hay, and Mangolds. Oats (1/2), 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	30	Thirty Acres
Wheat (Varieties), 2 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Barley (with Clover), 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Clover, Unmanured. One Crop as Hay.	Fallow (1/2), Wheat (1/2), 1 1/2 cwt. Nitrate Soda.	22		Harpenden.
Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda (1/2 with Clover).	Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda (1/2 with Clover).	Barley (1/2), 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda. Clover (1/2), Unmanured. Two Crops as Hay.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. Guano.		Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda. (1/2 with Clover).	9
Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	White Turnips, Dung, Superphosphate. 1/2 cwt. Nitrate Soda; part fed, part carted.	Wheat (Varieties), 2 cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. Guano.	Fallow.	18	
Oats, 2 1/2 cwt. superphosphate, 3 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Roots (1/2), Dung and Artificial. (Carted off). Fallow (1/2).	Wheat (1/2), 2 cwt. Nitrate Soda. Barley (1/2), 2 cwt. superphosphate, 2 cwt. Nitrate Soda (all with Clover).	Barley (1/2), 2 1/2 cwt. Guano. Clover (1/2), Unmanured. (1/2) 2 crops as Hay, (1/2) 1 crop as Hay, aftwda. Fed.	Wheat, 1 1/2 cwt. Nitrate Soda.		30
Oats, 2 1/2 cwt. superphosphate, 3 cwt. Nitrate Soda.	Oats (with Clover), 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Clover, Unmanured. First and second Crops as Hay; afterwards fed.	Wheat (Varieties), 2 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. Guano.	Oats, 2 1/2 cwt. Nitrate Soda, 2 1/2 cwt. superphosphate.	14	
Mangolds, 25 tons Dung. (Carted off).	Wheat (Varieties), 1 1/2 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Fallow.	Mangolds, (1/2) Dung 16 tons in 1880, 4 cwt. Guano in 1881, (1/2) Dung, 18 tons in 1881.		14
Swedes, Dung, and Superphosphate.	Barley, 1 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Barley (1/2), 2 cwt. superphosphate, 2 cwt. Nitrate Soda. Fallow (1/2).	Mangolds, 15 tons Dung, 3 cwt. Guano. (Carted off.)	Wheat (Varieties), 1 1/2 cwt. Nitrate Soda.	8	
Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Barley (with Clover), 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Clover, Unmanured. Two Crops as Hay.	Wheat, 2 cwt. Nitrate Soda.	Mangolds, 15 tons Dung, 3 cwt. Guano. (Carted off.)	Wheat, 1 1/2 cwt. Nitrate Soda.		6
Oats, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Fallow.	Wheat, 2 cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. Guano.	Fallow.	12	
Fallow.	Wheat (with Clover), 2 cwt. Nitrate Soda.	Clover, Unmanured. Two Crops as Hay.	Barley, 2 cwt. Nitrate Soda (with Grass Seeds).	Grass, Unmanured.	Grass, Cattle Grazed, with Cotton-Cake. Dung 15 tons.		10
Barley, 2 1/2 cwt. superphosphate, 3 cwt. Nitrate Soda. Swedes, Experiment.	Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda. Barley, 3 acres Experiment.	Potatos, Dung and Artificial. (3 acres Experiment 1/2 Beans, 1/2 Fallow.)	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda (3 acres Experiment, Wheat).	Fallow, (3 acres Experiment, Swedes).	Oats, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda, (3 acres Experiment, Barley).	9	
Oats (1/2), 2 1/2 cwt. superphosphate, 3 cwt. Nitrate Soda. Tares (1/2), Dung.	Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley, 2 1/2 cwt. Guano.	Barley (with Clover), 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.		25
Barley (with Clover), 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley (1/2), 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda. Tares (1/2), Dung.	Barley, (1/2) 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda, (1/2) 2 1/2 cwt. Nit. Soda alone.	Roots (1/2), 25 tons Dung, 1 cwt. Nitrate Soda (Carted off); Fallow (1/2).	Wheat, 50 bushels Soot.	Mangolds, Dung 20 tons.	25	
Oats, 2 cwt. superphosphate, (1) 1 1/2 Nitrate Soda, (1) 2 1/2 Nitrate Soda.	Fallow.	Wheat, 2 cwt. Nitrate Soda.	Winter Oats, 2 cwt. Nitrate Soda.	Barley, 50 bushels Soot.	Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.		30