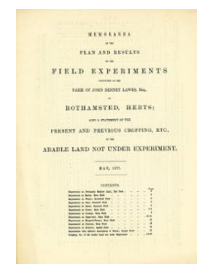


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ROTHAMSTED  
RESEARCH

# Memoranda of the Field Experiments at Rothamsted: May 1877



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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, 1864-1877,

Name of Field.	Acres.	PREVIOUS CROPPING							
		1864.	1865.	1866.	1867.	1868.	1869.	1870.	1871.
Thirty Acres	30	Oats, 2 cwt. Guano, 1 cwt. Corn Manure.	Oats, 1 cwt. Guano, 3 cwt. Corn Manure.	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.
Upper Harpenden	14	Wheat, 1½ cwt. Guano, ½ cwt. Corn Manure.	Oats, 1 cwt. Guano, 2 cwt. Corn Manure.	Oats, 2 cwt. Guano, 1 cwt. Sulph. Ammonia.	Tares, Dung, Swedes, Artificial.	Wheat, 2½ cwt. Guano, ¼ th. Sheep-folded.	Oats, 2 cwt. Guano, 1 cwt. dried Blood, ½ cwt. Sulph. Ammonia.	Swedes, Dung and superphosphate.	Wheat, 2 cwt. Guano.
Harpenden	22	Mangolds and Turnips, Dung and Artificial.	Wheat, Sheep-Folded.	Red Clover (peren.), Unmanured.	Wheat, 2½ cwt. Guano.	Oats, 2 cwt. Guano, & 1 cwt. Nitr. Soda, ¼ rd and Sheep-folded.	Swedes, Dung and various Artificial Manures.	Wheat, 3 cwt. Guano.	Oats, 3 cwt. Guano, 1 cwt. Nitrate Soda, Tares, Dung.
Little Hoos	9	Red Clover.	Wheat, 1½ cwt. Guano, 1 cwt. Nitrate Soda, 1 cwt. Corn Manure.	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.
Fosters'	18	Swedes, Dung and Artificial.	Oats, 1 cwt. Guano, 1 cwt. Corn Manure.	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.
Knott Wood	30	Red Clover (peren.).	Wheat, Sheep-Folded, 1 cwt. Guano.	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 Followed.	Oats, 3 cwt. Guano.	Oats, 3 cwt. Guano, 1 cwt. Nitrate Soda.
Little Knott Wood	14	Wheat, Unmanured.	Red Clover (peren.), Unmanured.	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.
Sawpit	14	Barley, 1½ cwt. Guano, ½ cwt. superphos., 1 cwt. Corn Manure.	Mangolds and Turnips, Dung and Artificial.	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.
Rick-yard	8	Wheat, Sheep-Folded, and 3 cwt. Guano.	Barley, 2 cwt. Guano, 1½ cwt. Corn Manure.	Red Clover, Sheep-Folded.	Wheat, Guano.	Barley, 2 cwt. Wheat Manure.	Tares, Dung.	Barley, 1 cwt. Guano.	Mangolds, Dung and 4 cwt. Cotton Cake.
Six Acres	6	Wheat, Unmanured.	Red Clover, Unmanured.	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.
Clay-Croft	12	Wheat, 2 cwt. Guano, 2 cwt. Corn Manure.	Oats, 2 cwt. Guano, 2 cwt. Corn Manure.	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. super- phosphate.	Wheat, Unmanured.
Ten Acres	10	Oats, 2 cwt. Guano, 1 cwt. Dried Blood.	Tares, Dung.	Turnips, Artificial.	Wheat, Guano.	Red Clover.	Wheat, 2 cwt. Guano.	Oats, 3 cwt. Guano.	Mangolds, Dung and 4 cwt. Cotton Cake.
Agdell	9	Barley, 1½ cwt. Guano, ½ cwt. superphos., 1 cwt. Corn Manure.	Red Clover, Unmanured.	Wheat, 1½ cwt. Guano, 1½ cwt. Corn Manure.	Oats, 2 cwt. Guano.	Tares, Dung.	Barley, Unmanured.	Barley, 1½ cwt. Guano, 1½ cwt. super- phosphate.	Mangolds, Dung and 4 cwt. Cotton Cake.
Long Hoos	25	Swedes, Dung and Artificial.	Barley, 1 cwt. Guano, 1 cwt. Corn Manure.	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.)
Sawyers'	25	Barley, 1 cwt. Guano, 1 cwt. Corn Manure.	Swedes, Dung and Artificial.	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.
West Barn	32	Oats, 1½ cwt. Guano, ½ cwt. Corn Manure.	Red Clover (peren.), Sheep-Folded.	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.

FARM.

1877.

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

AND MANURING.					Crops, &c., Present Season, 1876-77.	Acres.	Name of Field.
1872.	1873.	1874.	1875.	1876.			
Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda, (2½ acres experiment).	Barley (¾ with Grass-seeds), 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Grass (¾), Folded, and 1 cwt. Nitrate. Barley (¾), 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.	Grass (¾), Sheep-folded. Tares (¾) Dung.	Grass (¾), Compost. Wheat (¾), 1 cwt. Nitrate Soda.	Grass (¾), Cattle Grazed. Barley (¾), 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	30	Thirty Acres
Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Mangolds, Dung. (Carted off.)	Wheat (10 acres Varieties), 2 cwt. Nitrate Soda.	Barley, (¾) 3 cwt. Guano, (¾) 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley (with grass seeds), 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Grass.		
Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda. Tares, Dung.	Barley, After Oats—2 cwt. superphosphate; 2 cwt. Nitrate. After Tares—1 cwt. superphosphate; 1 cwt. Nitrate.	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.	22	Harpenden.
Barley (with Clover), 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley (¾), Unmanured. Clover (¾), Unmanured.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda (1 acre Unmanured).	Barley, where Barley 1873, 2 cwt. superphosphate, 2 cwt. Nitrate Soda. where Clover 1873, Half quantities.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda. (¾ with Clover).	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda. (¾ with Clover).	9	Little Hoos.
Wheat, ¼ Varieties of Wheat, 2 cwt. superphosphate, 2 cwt. Nitrate Soda, ¼ 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, (1) 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda, (1) 1½ cwt. Guano, 1½ Nitrate.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Swedes, Dung. Superphosphate, ½ cwt. Nitrate Soda.	18	Fosters'.
Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Tares (¾), Dung. Swedes (¾), 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.	Oats, 2½ cwt. superphosphate, 3 cwt. Nitrate Soda.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	30	Knott Wood.
Oats, ½ Sheep-folded. All, 2½ cwt. superphos., 2½ cwt. Nitrate Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	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.	14	Little Knott Wood.
Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate 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.	Mangolds, 25 tons Dung. (Carted off.)	Wheat (Varieties), 1½ cwt. Nitrate Soda.	14	Sawpit.
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.	Swedes, Dung, and Superphosphate.	Barley, 1 cwt. Nitrate Soda.	8	Rick-yard.
Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate 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.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Barley (with Clover), 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	6	Six Acres.
Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Clover, Unmanured.	Wheat, 2 cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Fallow.	12	Clay-Croft.
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.	Fallow.	Wheat (with Clover), 2 cwt. Nitrate Soda.	10	Ten Acres.
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.	Barley, 2½ cwt. superphosphate, 3 cwt. Nitrate Soda. Swedes, 3 acres, Experiment.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	9	Agdell.
Mangolds, Dung. (Carted off.)	Wheat, (¼ Varieties of Wheat), 1½ cwt. Nitrate Soda.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Oats, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Oats (¾), 2½ cwt. superphosphate, 3 cwt. Nitrate Soda. Tares (¾), Dung.	Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	25	Long Hoos.
Barley, 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Mangolds and Swedes, Dung.	Barley after Swedes (¾), 2 cwt. Nitrate Soda. Wheat after Mangolds (¾), 1½ cwt. Nitrate Soda.	Barley (with Clover), 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Barley (¾), 2½ cwt. superphosphate, 2½ cwt. Nitrate Soda. Tares (¾), Dung.	25	Sawyers'.
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.	Oats, 2 cwt. superphosphate, (1) 1½ Nitrate Soda, (1) 2½ Nitrate Soda.	Fallow.	32	West Barn.