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ROTHAMSTED  
RESEARCH

# Memoranda of the Field Experiments at Rothamsted: May 1880



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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, 1868-1880,

PREVIOUS CROPPING

Name of Field.	Acres.	PREVIOUS CROPPING						
		1868.	1869.	1870.	1871.	1872.	1873.	1874.
Thirty Acres	30	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.	Grass (¾), Folded, and 1 cwt. Nitrate. Barley (¼), 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.
Harpenden	22	Oats, 2 cwt. Guano, & 1 cwt. Nitr. Soda. ¼ rd { ¼ rd { and Sheep-folded.	Sweedes, 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.
Little Hoos	9	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 (¼), Unmanured. Clover (¾), Unmanured.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda (1 acre Unmanured).
Fosters'	18	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, ¼ 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.
Knott Wood	30	Sweedes, 2 cwt. Guano, 2½ cwt. superphosphate and Dung.	Wheat, 3 cwt. Guano (one-half), Unmanured (one-half), after Sweedes 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. Sweedes (¼), 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.
Little Knott Wood ..	14	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, ¾ Sheep-folded. All, 2½ cwt. super., 2½ cwt. Nitr. Soda.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.	Mangolds, Dung. (Carted off)
Sawpit ..	14	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.	Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.
Rick-yard	8	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.	Tares, Dung. ½ followed by Turnips, 1 cwt. superphosphate, 1 cwt. Nitrate Soda.
Six Acres ..	6	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.	Barley, 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.
Clay-Croft	12	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.	Oats, 2½ cwt. superphos., 2½ cwt. Nitr. Soda.	Clover, Unmanured.	Wheat, 2 cwt. Nitrate Soda.
Ten Acres ..	10	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).	Oats, 2 cwt. superphosphate, 2½ cwt. Nitrate Soda.
Agdell ..	9	Tares, Dung.	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).
Long Hoos	25	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, (¼ Varieties of Wheat), 1½ cwt. Nitrate Soda.	Oats, 2 cwt. superphosphate, 2 cwt. Nitrate Soda.
Sawyers' ..	25	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.	Mangolds and Sweedes, Dung.
West Barn	30	Fallow.	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.



FARM.

1880.

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

AND MANURING.

1875.	1876.	1877.	1878.	1879.	Crops, &c., Present Season, 1879-'80.	Acres.	Name of Field.
Grass (3/4), Sheep-folded. Tares (1/2) Dung.	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. surphosphate, 2 cwt. Nitrate Soda.	Grass (3/4). Cattle Grazed with Cotton-Cake. Barley (1/2). Fallow (1/2).	30	Thirty Acres
Mangolds, Dung, and 2 cwt. Guano. (Carted off.)	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.	Wheat (1/2), (Varieties). 50 bushels Soot. Mangolds (1/2), 15 tons Dung & 3 cwt. Guano.		22
Barley, where Barley 1873, 2 cwt. superphosphate, 2 cwt. Nitrate of Soda, where Clover 1873, Half quantities.	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.	9	Little Hoos.
Barley. (1) 3/4 cwt. Guano, (2) 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda, (3) 1 1/2 cwt. Guano, 1 1/2 Nitrate.	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.	18	Fosters'.
Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	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.	9	Knott Wood.
Wheat (Varieties). 1 1/2 cwt. Nitrate Soda.	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.	14	Little Knott Wood.
Barley, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	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.	14	Sawpit.
Barley, 1 cwt. Nitrate Soda.	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.	8	Rick-yard.
Barley, 2 cwt. superphosphate, 2 1/2 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. Two Crops as Hay.	Wheat, 2 cwt. Nitrate Soda.	Mangolds, 15 tons Dung, 3 cwt. Guano.	6	Six Acres.
Oats, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	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.	12	Clay-Croft.
Oats, 2 1/2 cwt. superphosphate, 2 1/2 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).	Grass, Unmanured.	10	Ten Acres.
Barley, 2 cwt. superphosphate, 2 cwt. Nitrate Soda. Wheat, 3 acres, Experiment.	Barley, 2 1/2 cwt. superphosphate, 3 cwt. Nitrate Soda. Swedes, 3 acres, 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).	9	Agdell.
Oats, 2 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda.	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.	25	Long Hoos.
Barley after Swedes (1/2) 2 cwt. superphosphate, 2 cwt. Nitrate Soda. Wheat after Mangolds (1/2) 1 1/2 cwt. Nitrate Soda.	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 1/2 cwt. superphosphate, 2 1/2 cwt. Nitrate Soda, (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.	25	Sawyers'.
Oats, 2 cwt. superphosphate, (1) 1 1/2 Nitrate Soda, (2) 2 1/2 Nitrate Soda.	Oats, 2 cwt. superphosphate, (1) 1 1/2 Nitrate Soda, (2) 2 1/2 Nitrate Soda.	Fallow.	Wheat, 2 cwt. Nitrate Soda.	Winter Oats, 2 cwt. Nitrate Soda.	Barley, 50 bushels Soot.	30	West Barn.