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## Rothamsted Report for 1932

[Full Table of Content](#)



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### Date of Operations, and Yields

#### Rothamsted Research

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DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, ROTHAMSTED, 1932

Field.	Crop.	Variety.	Principal Cultivations and Dates.	Manuring, cwt. per acre.	Sowing Dates.	Cutting Dates.	Carting Dates.	Yield per acre.
<i>I. Arable—non-experimental Pastures</i>	Beans 3½ bus. p.a.	Winter	Sept. 23-Oct. 8, tractor plough potato land and mangold land. Rest of field, rotary cultivated (all stubble), mid Sept.	Oct. 14 and 15 1931 1½ cwt. Super. 3 cwt. 30% Potash Salts	Oct. 14 and 15	Aug. 17 and 18, 1932	Aug. 31 to Sept. 1	21 cwts.
Gt. Harpenden 9 acres	Kale Kale Both at 4 lbs. p. acre	Marrow stem Thousand-head	Mar. 6-23, tractor plough in dung. April 27-29, horse harrow. May 6, horse harrow.	Mar. 1-19, Farmyard Manure, 16 tons per acre. 2 cwt. S/Amm. (2 acres, N side also had 3 cwt. 30% Potash Salt).	May 6	Used, by folding and carting from Dec. to end of Feb.	See pp. 161-162 (Cultivation Expt. and Time of Cutting Expt.)	
3 acres	Kale 4 lbs. per acre	Thousand-head	Sept. 22-23, 1931, plough in farmyard manure. Oct. 10, tractor disc harrow and harrow; also harrow after seed sowing. Rye fed off. Tractor plough, May 7-18. Plough twice more and work down.	Farmyard Manure, Sept. 3, 1931, for rye, 16 tons per acre. 2 cwt. S/Amm. on non-experimental portion in May.	June 11	Used in Mar.	see p. 160 (Humate Expt.)	
½ acre	Potatoes	Kerrs Pink	Ploughed and dunged as for Kale (9 acres). April 20, horse harrow and ridge for potatoes.	2 cwt. per acre S/Amm. April 23	April 23	—	Oct. 15-17	12 tons
Little Hoos	Spring Oats 2 bus. per acre drilled each way	Marvellous	Oct. 1, plough 4 acres next Gt. Harp. Fd. side (tractor). Oct. 9, tractor disc harrow, cultivate and harrow. Jan. 28-Feb. 3, Horse plough remaining area. Feb. 26, tractor cultivate, disc harrow and harrow. Self-sown after rotary cultivation Mid-Sept.	1 cwt. S/Amm. Mar. 9	Feb. 26-27	Aug. 9-10	Aug. 19-20	24 cwts.
Pennell's Piece	Oats	Marvellous		—	Mid-Sept.	Aug. 5	Aug. 18	20 cwts.
Fosters	Seeds	Italian Ryegrass and a little Brd. Red Clover	This hay crop occupied the odds and ends around the various experiments.	2 cwt. S/Amm. Mar. 21	Second year	June 16-17	June 22	—

DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, ROTHAMSTED, 1932 (Continued)

Field.	Crop.	Variety.	Principal Cultivations and Dates.	Manuring, cwt. per acre.	Sowing Dates.	Cutting Dates.	Carting Dates.	Yield per acre.
Gt. Knott	Wheat (4 acs.) 3 bus. per acre	Victor, Yeoman, Wilhelmina, in this order from farm building side	Sept. 23-28, tractor plough. Oct. 15.	1½ cwt. S/A. Mar. 10	Oct. 16, 1931	Aug. 11-15	Aug. 20	18 cwts.
	Forage	Barley, Oats and Vetches	Plough up wheat, Feb. 19. Same cult. as Forage Expt. except tractor disc harrow and harrow, March 10.	1½ cwt. S/A.	Mar. 12, 1932	July 9	July 20	see pp. 148-149
Long Hoos (1), (2) and (3)	Barley and Beans 2½ bus. and ¾ bus. resp. per acre	Plumage-Archer and Spring Beans.	Plough Sections (2) and (3) Jan. 28th-Feb. 1st (Horses) and Section (1), Feb. 5-23. Tractor Cultivate (1) and (2), Mar. 4, and (3), Mar. 5. Disc harrow, roll and harrow, 3 times. 7-8 Mar. Undersown, April 26, ryegrass and trefoil.	Apply 1 cwt. S/Amm., Mar. 19 to Sections 2 and 3 only	Mar. 7	Aug. 11-15	Aug. 26-28	30 cwts.
(Sections 4 and 5 Experimental)	Wheat and Oats Varieties		16 and 17, Oct., 1931, Tractor plough, work down, disc harrow and harrow.		Oct. 23, 1931	Aug. 23 Wheat Aug. 4-5 Oats	Aug. 28 Wheat Aug. 19 Oats	—
(7)	Mustard after Rape-Kale		Kale ploughed up beginning of June. 16 and 27, Tractor work (disc harrow and cultivate) and harrow for seed bed.	—	June 27	—	—	—
Hoos (next Farm Buildings)	Maize (2 bs./ac.)	Giant White Horsetooth	Plough after kale, April. Cultivate during May. Harrow before and after drilling.	12 tons dung 1½ cwt. S/A.	June 11	During Sept. for stock	During Sept. and Oct. for stock	30 tons (green)
II. Replicated Experiments—Fosters	Wheat	Victor	Oct. 14-16, 1931, plough. April 9, harrow wheat with small seed harrows.	see p. 147	Nov. 2	Aug. 16	Aug. 24	see p. 147

**DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, ROTHAMSTED, 1932 (Continued)**

Field.	Crop.	Variety.	Principal Cultivations and Dates.	Manuring, cwt. per acre.	Sowing Dates.	Cutting Dates.	Carting Dates.	Yield per acre.
Fosters ( <i>cont.</i> )	Barley	Plumage Archer, Vic-tory, July	Feb. 16-19, plough. March 2, tractor cultivate with discs and tooth harrow. March 10, roll. April 19, plough, harrow after (no ley plots). June 4, cultivate twice over with small motor cultivator (intensive fallow plots). July 2-12, plough plots with 1 cut taken (light and intensive fallow). Aug. 11-13, motor hoe, 4-5 in. deep (in-tensive fallow plots). See 1931 Report, p. 111.	see pp. 138-139  see p. 136	Mar. 4, 5, 8  April 23	Aug. 10-30  June 21, Aug. 29	Aug. 10-30  —	see pp. 139-141  see p. 137
	Temporary Leys	—						
	Forage	Rye, Barley, Oats, Wheat, Italian Rye-grass Victor		see p. 150	July 22-24	May 24	—	see pp. 150-151
Long Hoos (5)	Wheat		Oct. 8-13, 1931, plough. Oct. 31, 1931, harrow before and after drilling. April 13, harrow with small seed harrows.	see pp. 142-143	Oct. 31	Aug. 17-20	—	see pp. 143-146
Gt. Knott	Potatoes	Ally	Feb. 29-Mar. 4, plough with tractor and horses. April 4-6, cultivate with disc and tooth harrows. May 11-July 1, ridg-ing and hand hoeing.	see pp. 153-154	April 7-8	—	Oct. 24	see pp. 154-156
	Sugar Beet	Kuhn	Mar. 3-4, plough with tractor and horses. April 4-14, cultivate with disc and tooth harrows. May 18 harrow with spring tined harrow. May 19, roll before, har-row and roll after drilling. June 20, horse hoe. July 7-15, horse and hand hoe. July 14-Aug. 2, motor hoe (intensive plots).	see p. 157	May 19	—	Nov. 3-4	see p. 158
	Forage (1)	Oats and Vetches	Feb. 19-23, plough in wheat. Mar. 10, cultivate with disc and tooth harrows. Mar. 11-12, har-row. May 9, undersown with grass seeds.	see p. 148	Mar. 11-12	July 11-12	July 11-12	see pp. 148-149

DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, ROTHAMSTED, 1932 (Continued)

Field.	Crop.	Variety.	Principal Cultivations and Dates.	Manuring, cwt. per acre.	Sowing Dates.	Cutting Dates.	Carting Dates.	Yield per acre.
Great Knott (cont.)	Forage (2)	Oats, Vetches and Beans	Feb. 19-23, plough in wheat. Mar. 10, cultivate with disc and tooth harrows. Mar. 11, harrow. May 9, undersown with grass seeds.	see p. 152	Mar. 11	June 11 July 1 July 22 Aug. 12		see p. 152
Great Harpenden	Kale (1)	Thousand-head	May 17-18, tractor plough in rye after sheep. June 1, tractor cultivate with tooth harrows. June 2-3, tractor plough. June 6-7, cultivate with discs, drag harrows and heavy roll. June 7-10, plough, drag harrows and heavy roll. June 10-11, roll. July 18-19, Aug. 6-8, horse hoe. Aug. 15, hand hoe.	see p. 160	June 10-11	Nov. 19	Nov. 19.	see p. 160
III. Classical and Rotation Experiments—Hoos	Kale (2)	Marrow Stem	Mar. 22-24, tractor plough in dung. May 6, harrow before and after drilling. June 2-4, horse hoe. June 29-30, singling thinned plots. July 4-27, motor hoe intensive plots.	see p. 162	May 6	Nov. 14-18	Nov. 14-18	see p. 162
‡ Acre Hoos	Barley	Plumage-Archer, Spratt-Archer	Jan. 5, plough. Mar. 8, tractor cultivate with disc and tooth harrow. May 19-July 25, horse and hand hoe. Rows again 18 in. apart.	see p. 126	Mar. 9-10	Aug. 23	Sept. 2	see p. 126
	Wheat	Red Standard	Sept. 16, 1931, plough. Oct. 14, 1931, harrow. June 3, cultivate all fallowland, with tooth harrows and thistlebar.	see p. 119	Oct. 14	Aug. 10	Aug. 18	see p. 119
Barnfield	Mangolds	Prizewinner Yellow Globe	Oct. 29-Nov. 5, 1931, plough, 7 to 8 in. deep. April 21-25, tooth harrow across and down. Mar. 26-Aug. 8, horse and hand hoeing. June 8-22, singling.	see p. 120	April 25	Oct. 18-27	Oct. 20-Nov. 2	see p. 120

DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, ROTHAMSTED, 1932 (Continued)

Field.	Crop.	Variety.	Principal Cultivations and Dates.	Manuring, cwt. per acre.	Sowing Dates.	Cutting Dates.	Carting Dates.	Yield per acre.
Agdell	Turnips	Bruce	Sept. 18 and Oct. 31, 1931, shallow and deep plough. Oct. 12, 1931, tractor cultivate. May 14, tractor cultivate 3 times. June 2, tractor cultivate with chain harrows and thistle bar. June 3, harrow and roll. July 14-Aug. 6, horse and hand hoe. July 16-18, singling. June 23-24; Sept. 12-13.	see p. 118	June 3	Oct. 27- Nov. 2	Nov. 5-7	see p. 118
Park	Hay	—		see p. 121	—	June 23 & 24 (first crop) Sept 12-14 (second crop) Aug. 9-10	June 28- July 4 Sept. 22- 28 Aug. 16- 18	see p. 121
Broadbalk	Wheat	Haslers Red Standard	Aug. 29-Sept. 15, 1931 plough. Sept. 21 and 26, 1931, tractor cultivate with disc and tooth harrows. Oct. 10-12, 1931, cultivate with thistle bar attached. Oct. 15, 1931, harrow. Feb. 25, harrow.	see pp. 124-125	Oct. 13			see pp. 124-125
Gt. Hoos 4 Course Rotation	Wheat	Yeoman	July 14-15, 1931, plough. Aug. 31, 1931, drag. harrow. Sept. 21, 1931, tractor cultivate. Nov. 4, 1931, plough and harrow. Nov. 5, 1931, harrow before and after drilling. April 9, harrow wheat with seed harrows. July 8, hand weeding.	see pp. 127-128	Nov. 5	Aug. 15	Aug. 26	see p. 130
	Potatoes	Ally	Dec. 7-15, 1931, plough. April 8, harrow, July 1, hand hoe.	see pp. 127-128	April 12	—	Sept. 30	see p. 130
	Barley	Plumage- Archer	Dec. 7-15, 1931, plough. Mar. 11, tractor cultivate with disc and tooth harrows. May 30, hand weeding.	see pp. 127-128	Mar. 12	Aug. 15	Aug. 29	see p. 130

**DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, ROTHAMSTED, 1932 (Continued)**

Field.	Crop.	Variety.	Principal Cultivations and Dates.	Manuring, cwt. per acre.	Sowing Dates.	Cutting Dates.	Carting Dates.	Yield per acre.
Gt. Hoos 4 Course Rotation (cont.)	Seeds	Italian Rye- grass, Dutch White Clover and Alsike Clover Ally	Mar. 25, 1931, roll.  Sept. 21, 1931, plough. Sept. 25, 1931, tractor cultivate with disc harrow. Feb. 24-25, plough. April 8, harrow. July 1, hand weeding. Jan. 20, plough. Mar. 11, tractor cultivate with disc and tooth harrows. Mar. 12, roll. July 8, hand weeding. Mar. 26, roll. Aug. 25-26, 1931, plough. Sept. 22 and Oct. 16 tractor cultivate with disc and tooth harrows. Oct. 16, 1931, plough and harrow.	see pp. 127-128  see pp. 131-132  see pp. 131-132  see pp. 131-132 see pp. 131-132	April 22  April 12  Mar. 12  — Oct. 16	June 22  —  Aug. 15-16  June 15 Aug. 15-16  June 4	June 27  Sept. 30  Aug. 26  June 23 Aug. 24  June 10	see p. 130  see p. 134  see p. 134 see p. 134
Long Hoos Six Course Rotation	Potatoes	Plumage- Archer						
	Barley	Broad Red Yeoman						
	Clover Wheat	Rye, Beans, Vetches, fol- lowed by Mustard Kuhn						
	Forage							
	Sugar Beet		Aug. 15, 1931, plough. Aug. 31, 1931, drag harrow. Feb. 26, plough. May 18, cultivate with spring tined harrows. May 19, harrow and roll. July 5 and Aug. 5, horse hoe. July 15, singling.	see pp. 131-132	May 19	—	Nov. 4	see p. 134
<i>IV. Grassland</i> — Great Harpenden	Grazing	see Rpt. 1931				June 15 tractor topped (power mower)		—
Fosters Corner	Grazing	see Rpt. 1931						—

DATES OF SOWING AND HARVESTING, AND YIELD PER ACRE, ROTHAMSTED, 1932 (Continued)

Field.	Crop.	Variety.	Principal Cultivations and Dates.	Manuring, cwt. per acre.	Sowing Dates.	Cutting Dates.	Carting Dates.	Yield per acre.
Gt. Knott	Grazing	see Rpt. 1931	—	—	—	June 14 topped by tractor mower June 22	—	—
Gt. Field 1 2 and 3	Hay, after Grazing Grazing	—	—	—	—	June 3 and 22 respect.	June 27	22 cwt.
Little Knott 1, 2 and 3	Grazing	see Rpt. 1931	—	—	—	—	—	—
New Zealand	Grazing	see Rpt. 1931	—	—	—	June 15 topped by tractor mower	—	—
Stackyard	Grazing	see Rpt. 1931	—	—	—	Topped June 21 June 13	—	—
W. Barnfield 1 2	Hay after Grazing Grazing	see Rpt. 1931 see Rpt. 1931	—	—	—	Topped June 4 June 9 and 10th June 20th 24 respect.	June 17	20 cwt.
Sawyers 1 2 and 3	Hay after Grazing Grazing	see Rpt. 1931 see Rpt. 1931	—	—	—	—	June 16 17th	22 cwt.