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## Rothamsted Report for 1932

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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<br>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<br>1½ cwt. Super.<br>3 cwt. 30%<br>Potash Salts  | Oct. 14 and 15 | Aug. 17 and 18, 1932                                  | Aug. 31 to Sept. 1  | 21 cwts.        |
| Gt. Harpenden<br>9 acres                   | Kale<br>Kale<br>Both at 4 lbs. p. acre             | Marrow stem<br>Thousand-head                  | Mar. 6-23, tractor plough in dung. April 27-29, horse harrow. May 6, horse harrow.  | Mar. 1-19,<br>Farmyard<br>Manure, 16<br>tons per acre.<br>2 cwt. S/Amm.<br>(2 acres, N<br>side also had<br>3 cwt. 30%<br>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<br>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<br>Manure, Sept.<br>3, 1931, for rye,<br>16 tons per acre.<br>2 cwt. S/Amm.<br>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<br>S/Amm. April 23   | April 23       | —   | Oct. 15-17  | 12 tons         |
| Little Hoos                                | Spring Oats<br>2 bus. per acre<br>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.<br>Self-sown after rotary cultivation Mid-Sept. | 1 cwt. S/Amm.<br>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.<br>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<br>Wheat<br>Aug. 4-5<br>Oats | Aug. 28<br>Wheat<br>Aug. 19<br>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<br>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<br>Temporary Leys | 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).<br>See 1931 Report, p. 111.   | see pp. 138-139<br>see p. 136 | Mar. 4, 5, 8<br>April 23 | Aug. 10-30<br>June 21,<br>Aug. 29 | Aug. 10-30<br>—     | see pp. 139-141<br>see p. 137      |
| Long Hoos (5)            | Forage<br>Wheat          | Rye, Barley, Oats, Wheat, Italian Rye-grass<br>Victor | Oct. 8-13, 1931, plough. Oct. 31, 1931, harrow before and after drilling. April 13, harrow with small seed harrows.   | see p. 150                    | July 22-24<br>Oct. 31    | May 24<br>Aug. 17-20              | —                   | see pp. 150-151<br>see pp. 143-146 |
| Gt. Knott                | Potatoes<br>Sugar Beet   | Ally<br>Kuhn  | 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.<br>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).<br>Feb. 19-23, plough in wheat.<br>Mar. 10, cultivate with disc and tooth harrows. Mar. 11-12, har-row. May 9, undersown with grass seeds. | see pp. 153-154<br>see p. 157 | April 7-8<br>May 19      | —                                 | Oct. 24<br>Nov. 3-4 | see pp. 154-156<br>see p. 158      |
|                          | Forage (1)               | Oats and Vetches                                      |   | 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<br>(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<br>July 1<br>July 22<br>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—<br>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-<br>Nov. 2   | Nov. 5-7  | see p. 118      |
| Park                             | Hay      | —                       |   | see p. 121               | —             | June 23 &<br>24 (first<br>crop)<br>Sept 12-14<br>(second<br>crop)<br>Aug. 9-10 | June 28-<br>July 4<br>Sept. 22-<br>28<br>Aug. 16-<br>18 | see p. 121      |
| Broadbalk                        | Wheat    | Haslers Red<br>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<br>4 Course<br>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-<br>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<br>4 Course<br>Rotation<br>(cont.) | Seeds           | Italian Rye-grass, Dutch White Clover and Alsike Clover Ally | Mar. 25, 1931, roll.   | see pp. 127-128                    | April 22      | June 22                              | June 27            | see p. 130               |
| Long Hoos<br>Six Course<br>Rotation         | Potatoes        |  | Sept. 21, 1931, plough. Sept. 25, 1931, tractor cultivate with disc harrow. Feb. 24-25, plough. April 8, harrow. July 1, hand weeding.<br>Jan. 20, plough. Mar. 11, tractor cultivate with disc and tooth harrows. Mar. 12, roll. July 8, hand weeding.<br>Mar. 26, roll.<br>Aug. 25-26, 1931, plough. Sept. 22 and Oct. 16 tractor cultivate with disc and tooth harrows.<br>July 8, hand weeding.<br>Oct. 16, 1931, plough and harrow. | see pp. 131-132                    | April 12      | —                                    | Sept. 30           | see p. 134               |
|   | Barley          | Plumage-Archer   |  | see pp. 131-132                    | Mar. 12       | Aug. 15-16                           | Aug. 26            | see p. 134               |
|   | Clover<br>Wheat | Broad Red Yeoman   |  | see pp. 131-132<br>see pp. 131-132 | —<br>Oct. 16  | June 15<br>Aug. 15-16                | June 23<br>Aug. 24 | see p. 134<br>see p. 134 |
|   | Forage          | Rye, Beans, Vetches, followed by Mustard Kuhn                |  | see pp. 131-132                    | Oct. 16       | June 4                               | June 10            | see p. 134               |
|   | 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> —<br>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<br>June 22                   | —               | —               |
| Gt. Field 1<br>2 and 3     | Hay, after Grazing<br>Grazing | —                              | —                                 | —                        | —             | June 3 and 22 respect.                                       | June 27         | 22 cwt.         |
| Little Knott 1,<br>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<br>June 21<br>June 13                                 | —               | —               |
| W. Barnfield 1<br>2        | Hay after Grazing<br>Grazing  | see Rpt. 1931<br>see Rpt. 1931 | —                                 | —                        | —             | Topped<br>June 4<br>June 9 and 10th<br>June 20th 24 respect. | June 17         | 20 cwt.         |
| Sawyers 1<br>2 and 3       | Hay after Grazing<br>Grazing  | see Rpt. 1931<br>see Rpt. 1931 | —                                 | —                        | —             | —  | June 16<br>17th | 22 cwt.         |