

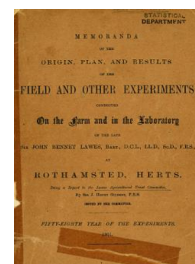
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Yields of the Field Experiments 1901

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Different Descriptions of Wheat; Various Fields

Rothamsted Research

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RESULTS OF EXPERIMENTS WITH DIFFERENT DESCRIPTIONS OF

| DESCRIPTIONS OF WHEAT. | 1871; | 1872; | 1873; | 1874; | 1875; |
|-----------------------------------|--|---|--|---|---|
| | Sawpit Field; 3 cwt. Guano; after Mangels, carted off. | Foster's Field; 2 cwt. Super-phosphate, 2 cwt. Nitrate Soda; after Roots, carted off. | Long Hoos Field; 1½ cwt. Nitrate; after Mangels (with Dung), carted off. | Upper Harpenden Field; 2 cwt. Nitrate; after Mangels (with Dung), carted off. | Little Knott-Wood Field; 1½ cwt. Nitrate Soda; after Mangels (with Dung), 1874, carted off. |
| DRESSED CORN | | | | | |
| 1. White-chaff (Red) .. .. . | .. .. | .. .. | 40½ | 55½ | 40½ |
| 2. Rivett's (Red) .. .. . | .. .. | .. .. | 48½ | 67 | 48½ |
| 3. Chubb Wheat (Red) | 28½ | 40 | 35½ | 50½ | 38½ |
| 4. Red-chaff (White) | 32½ | 37 | 35½ | 48½ | 34½ |
| 5. Browick (Red) | 35½ | 40½ | 38½ | 51½ | 38½ |
| 6. Red Wonder | 31½ | 43½ | 37½ | 55½ | 33½ |
| 7. Burwell (Old Red Lammas) .. | 31½ | 41½ | 35½ | 47½ | 38½ |
| 8. Bristol Red | 29½ | 44½ | 39½ | 53½ | 31½ |
| 9. Red Nursery | 34½ | 45½ | 27½ | 41½ | 39 |
| 10. Red Langham | 30½ | 43½ | 34½ | 53½ | 34½ |
| 11. Woolly Ear (White) | 31½ | 42½ | 37 | 51½ | 36½ |
| 12. Harcastle (White) .. .. | .. .. | 46½ | 42 | 49½ | 33½ |
| 13. Golden Drop (Red), Hallett's | 39½ | 49½ | 44½ | 51½ | 38½ |
| 14. Victoria White, Hallett's .. | 33½ | 45½ | 38½ | 44½ | 33½ |
| 15. Hunter's White, Hallett's .. | 26½ | 39½ | 38½ | 45½ | 26½ |
| 16. Original Red, Hallett's .. | 30 | 35½ | 36½ | 43½ | 26 |
| 17. White Chiddam | 26½ | 38½ | 31½ | 42 | 32½ |
| 18. Red Rostock | 37 | .. .. | 46½ | 53½ | 37½ |
| 19. Casey's White | 29½ | 42½ | 37½ | 52½ | 39 |
| 20. Golden Rough-chaff (Red) .. | 33 | 39½ | 38½ | 52½ | 38½ |
| 21. Bole's Prolific (Red) | 33½ | 42½ | 45½ | 48½ | 43½ |
| 22. Club Wheat (Red) | 36 | 45½ | 47½ | 59½ | 46½ |
| 23. Main's Standing White .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 24. Main's Rough-chaff (White) .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 25. Belgian (White) .. .. . | .. .. | .. .. | .. .. | .. .. | .. .. |
| 26. Webb's Challenge (White) .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| Means | 32½ | 42½ | 38½ | 50½ | 36½ |
| WEIGHT PER | | | | | |
| 1. White-chaff (Red) .. .. . | .. .. | .. .. | 58½ | 61½ | 61 |
| 2. Rivett's (Red) .. .. . | .. .. | .. .. | 57½ | 58½ | 58½ |
| 3. Chubb Wheat (Red) | 60½ | 61½ | 59½ | 61½ | 59½ |
| 4. Red-chaff (White) | 61½ | 62½ | 60½ | 61½ | 60½ |
| 5. Browick (Red) | 60 | 61½ | 59½ | 61½ | 59½ |
| 6. Red Wonder | 59 | 60½ | 60 | 62½ | 60½ |
| 7. Burwell (Old Red Lammas) .. | 62 | 63 | 61½ | 63½ | 61½ |
| 8. Bristol Red | 60½ | 61½ | 60½ | 61½ | 60½ |
| 9. Red Nursery | 63 | 65 | 62 | 65½ | 62½ |
| 10. Red Langham | 60½ | 61½ | 60½ | 63 | 60½ |
| 11. Woolly Ear (White) | 61½ | 62½ | 61½ | 62½ | 57½ |
| 12. Harcastle (White) .. .. . | .. .. | 61½ | 59½ | 63 | 59½ |
| 13. Golden Drop (Red), Hallett's | 61½ | 63 | 59½ | 63 | 61½ |
| 14. Victoria White, Hallett's .. | 61 | 62½ | 59½ | 62½ | 61½ |
| 15. Hunter's White, Hallett's .. | 59½ | 61½ | 57½ | 61½ | 60½ |
| 16. Original Red, Hallett's .. | 58½ | 60 | 56½ | 60½ | 58½ |
| 17. White Chiddam | 62½ | 63 | 59½ | 62½ | 61½ |
| 18. Red Rostock | 60½ | .. .. | 56½ | 59½ | 59½ |
| 19. Casey's White | 60½ | 61½ | 58½ | 60½ | 60 |
| 20. Golden Rough-chaff (Red) .. | 61½ | 62½ | 59½ | 62½ | 61½ |
| 21. Bole's Prolific (Red) | 61½ | 62½ | 57½ | 62 | 60½ |
| 22. Club Wheat (Red) | 60½ | 61½ | 58½ | 61½ | 61½ |
| 23. Main's Standing White .. .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 24. Main's Rough-chaff (White) .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| 25. Belgian (White) .. .. . | .. .. | .. .. | .. .. | .. .. | .. .. |
| 26. Webb's Challenge (White) .. | .. .. | .. .. | .. .. | .. .. | .. .. |
| Means | 60½ | 62½ | 59½ | 61½ | 60½ |

(1) All the crops were more or less affected by wire-worm, large bare patches appearing on many plots; and much immature and blighted.
 (2) Owing doubtless in great part to the imperfect development of the grain from the crop of 1879, much of the wheat of 1880 did not germinate at all, and of that which did come up a great deal was afterwards destroyed by wire-worm, so that at the end of March it was a question whether there would be a plant left in the field worth sowing. With the thin wheat plants an extraordinary growth of weeds, which the wet month of July much favoured and made it impossible to keep under.

WHEAT, 12 YEARS, 1871-1882, EACH YEAR IN A DIFFERENT FIELD.

| 1876; | 1877; | 1878; | 1879; (1) | 1880; (2) | 1881; | 1882; (4) | (3) | Nos. |
|--|--|--|--|---|--|---|--|------|
| Harpenden Field; 2 cwt. Nitrate Soda; after Mangels (with Dung), 1875, carted off. | Sawpit Field; 1½ cwt. Nitrate Soda; after Mangels (with Dung), 1876, carted off. | Foster's Field; 2 cwt. Nitrate, after White Turnips (with Dung and Artificial), 1877, part Fed, part carted off. | Little Knott-Wood Field; 2 cwt. Nitrate; after Clover. First and second Crops, as Hay; afterwards Fed. | Harpenden Field; 50 bushels of Soot; after Clover unmanured. One Crop as Hay; afterwards Fed. | Rickyard Field; 1½ cwt. Nitrate Soda; after Mangels (with Dung and Guano), 1880, carted off. | Foster's Field; 2 cwt. Nitrate Soda; after Fallow 1881. | Averages, 8 Years, 1871 to 1878 inclusive. | |
| PER ACRE. Bushels. | | | | | | | | |
| 49½ | 48¾ | 59 | 22¾ | 28½ | 54½ | 48¾ | 1 | |
| 42½ | 49¾ | 66½ | 16 | 22¾ | 52¼ | 53¾ | 2 | |
| 40½ | 41½ | 55½ | 20¾ | 14¾ | .. .. | 41½ | 3 | |
| 43¾ | 41 | .. .. | .. .. | .. .. | .. .. | 39 | 4 | |
| 39½ | 40¾ | 49½ | 24 | 19¾ | 47¼ | 41¾ | 5 | |
| 44¼ | 41¾ | 52½ | 22 | 28½ | 45¾ | 42¾ | 6 | |
| 38¾ | 39 | 46½ | 27 | 27 | 44¾ | 39¾ | 7 | |
| 42¾ | 44½ | 52½ | 21¾ | 30¾ | 46¼ | 42½ | 8 | |
| 37½ | 40¾ | 47¾ | 30¾ | 27½ | 46 | 39½ | 9 | |
| 42½ | 42¾ | 50¾ | 25¾ | 28¾ | 48½ | 41¾ | 10 | |
| 46¾ | 37½ | 48½ | 20 | 21 | 44½ | 41¾ | 11 | |
| 44 | 42½ | 54 | 21½ | 24¾ | 45¾ | 44¾ | 12 | |
| 48¾ | 49½ | 52¾ | 21 | 18¾ | 50¾ | 46¾ | 13 | |
| 41½ | 42¾ | 43¾ | 14¾ | 15¾ | 44 | 40¾ | 14 | |
| 43½ | 40 | 42½ | 17¾ | 22¾ | .. .. | 37¾ | 15 | |
| 40½ | 44¾ | .. .. | .. .. | .. .. | .. .. | 36½ | 16 | |
| 37½ | 37¾ | 49¾ | 11¾ | 27¾ | 47¼ | 37½ | 17 | |
| 40 | 46¾ | 57 | 8½ | 28¾ | 45¾ | 45½ | 18 | |
| 45½ | 43 | 47¾ | 15¾ | 24½ | 42¾ | 42½ | 19 | |
| 38¾ | 36¾ | 46¾ | 14¾ | 31½ | 41¾ | 40¾ | 20 | |
| 41¾ | 44¾ | 52¾ | 31 | 24½ | 46½ | 44 | 21 | |
| 47¾ | 49½ | 61 | 23½ | 16¾ | 43¾ | 49¼ | 22 | |
| .. .. | .. .. | 50½ | 32½ | 16½ | 44¼ | 50½ | 23 | |
| .. .. | .. .. | 50¾ | 24 | 15¾ | 39¾ | 50¾ | 24 | |
| .. .. | .. .. | 52½ | 21¾ | 9¾ | .. .. | 52½ | 25 | |
| .. .. | .. .. | .. .. | .. .. | 30½ | 39½ | .. .. | 26 | |
| 42½ | 42¼ | 51¾ | 21½ | 23½ | 45¾ | 43½ | Means. | |
| BUSHSEL. Lbs. | | | | | | | | |
| 63 | 60¾ | 60¾ | 51¾ | 54¾ | 57¾ | 61 | 1 | |
| 59¾ | 60½ | 58¾ | 49½ | 55¾ | 56¾ | 58¾ | 2 | |
| 62¾ | 60½ | 61½ | 53 | 53¾ | .. .. | 60¾ | 3 | |
| 63½ | 60½ | .. .. | .. .. | .. .. | .. .. | 61¾ | 4 | |
| 62½ | 60¾ | 62½ | 52¾ | 54¾ | 60½ | 61 | 5 | |
| 63 | 61½ | 63 | 52¾ | 56¾ | 60½ | 61½ | 6 | |
| 64¾ | 61½ | 64 | 55½ | 58¾ | 61 | 62¾ | 7 | |
| 62¾ | 59¾ | 63¾ | 54¾ | 57¾ | 60¾ | 61½ | 8 | |
| 66 | 58¾ | 62¾ | 57½ | 59¾ | 61¾ | 63½ | 9 | |
| 63¾ | 61½ | 63½ | 54½ | 56¾ | 59 | 61¾ | 10 | |
| 63¾ | 59¾ | 62½ | 52¾ | 55¾ | 60¾ | 61¾ | 11 | |
| 63½ | 59¾ | 61½ | 52¾ | 55¾ | 60½ | 61¾ | 12 | |
| 64¾ | 61¾ | 63½ | 52¾ | 55¾ | 61½ | 62½ | 13 | |
| 63¾ | 61 | 61¾ | 51½ | 56½ | 60¾ | 61¾ | 14 | |
| 63¾ | 59¼ | 62½ | 55 | 59¼ | .. .. | 60¾ | 15 | |
| 62¾ | 59 | .. .. | .. .. | .. .. | .. .. | 59¾ | 16 | |
| 64¾ | 61½ | 61½ | 54½ | 58 | 60¾ | 62 | 17 | |
| 63¾ | 59½ | 60¾ | 54 | 56¾ | 60¾ | 59¾ | 18 | |
| 63¾ | 59¾ | 60¾ | 55¾ | 58½ | 61¾ | 60¾ | 19 | |
| 65½ | 60¾ | 61¾ | 54¾ | 57¾ | 62½ | 62 | 20 | |
| 63¾ | 60½ | 63¾ | 55½ | 55¾ | 61¾ | 61½ | 21 | |
| 63½ | 59¾ | 62½ | 52¾ | 55¾ | 60¾ | 61¾ | 22 | |
| .. .. | .. .. | 61¾ | 56½ | 57½ | 61 | 61¾ | 23 | |
| .. .. | .. .. | 61¾ | 53½ | 56½ | 61½ | 61¾ | 24 | |
| .. .. | .. .. | 60¾ | 51¾ | 53¾ | .. .. | 60¾ | 25 | |
| .. .. | .. .. | .. .. | .. .. | 59½ | 58¾ | .. .. | 26 | |
| 63½ | 60½ | 62 | 53½ | 56¾ | 60¾ | 61½ | Means. | |

Produce damaged; not weighed; see note 4.

wheats appeared to suffer most, either from imperfectly developed seed, wire-worm, or blight. The most satisfactory crop was "Webb's Challenge," the seed for which was obtained direct from the seed-man, not grown on the farm, as were the others.
 (3) Owing to the produce of 1879 and 1880 being so exceptionally bad, that of those years is not included in the averages; nor is that of 1881.
 (4) The crop of 1882 was completely beaten down by the high winds and heavy rains of July, which greatly interfered with the proper maturation of the grain; the produce was therefore not kept separate or weighed; and in some places not even threshed.