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# Yields of the Field Experiments 1898

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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) .. .. .	.. ..	.. ..	40 <sup>3</sup> / <sub>8</sub>	55 <sup>1</sup> / <sub>8</sub>	40 <sup>1</sup> / <sub>4</sub>
2. Rivett's (Red) .. .. .	.. ..	.. ..	48 <sup>1</sup> / <sub>8</sub>	67	48 <sup>3</sup> / <sub>8</sub>
3. Chubb Wheat (Red) .. .. .	28 <sup>3</sup> / <sub>8</sub>	40	35 <sup>3</sup> / <sub>8</sub>	50 <sup>1</sup> / <sub>2</sub>	38 <sup>1</sup> / <sub>4</sub>
4. Red-chaff (White) .. .. .	32 <sup>3</sup> / <sub>8</sub>	37	35 <sup>1</sup> / <sub>2</sub>	48 <sup>3</sup> / <sub>8</sub>	34 <sup>1</sup> / <sub>4</sub>
5. Browick (Red) .. .. .	35 <sup>1</sup> / <sub>2</sub>	40 <sup>1</sup> / <sub>2</sub>	38 <sup>1</sup> / <sub>2</sub>	51 <sup>1</sup> / <sub>8</sub>	38 <sup>1</sup> / <sub>2</sub>
6. Red Wonder .. .. .	31 <sup>1</sup> / <sub>2</sub>	43 <sup>3</sup> / <sub>8</sub>	37 <sup>1</sup> / <sub>8</sub>	55 <sup>1</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>4</sub>
7. Burwell (Old Red Lammas) ..	31 <sup>1</sup> / <sub>8</sub>	41 <sup>1</sup> / <sub>4</sub>	35 <sup>1</sup> / <sub>8</sub>	47 <sup>1</sup> / <sub>4</sub>	38 <sup>1</sup> / <sub>2</sub>
8. Bristol Red .. .. .	29 <sup>3</sup> / <sub>8</sub>	44 <sup>3</sup> / <sub>8</sub>	39 <sup>1</sup> / <sub>2</sub>	53 <sup>3</sup> / <sub>8</sub>	31 <sup>3</sup> / <sub>8</sub>
9. Red Nursery .. .. .	34 <sup>1</sup> / <sub>8</sub>	45 <sup>1</sup> / <sub>2</sub>	27 <sup>1</sup> / <sub>8</sub>	41 <sup>1</sup> / <sub>8</sub>	39
10. Red Langham .. .. .	30 <sup>3</sup> / <sub>8</sub>	43 <sup>3</sup> / <sub>8</sub>	34 <sup>1</sup> / <sub>8</sub>	53 <sup>1</sup> / <sub>8</sub>	34 <sup>7</sup> / <sub>8</sub>
11. Woolly Ear (White) .. .. .	31 <sup>1</sup> / <sub>4</sub>	42 <sup>3</sup> / <sub>8</sub>	37	51 <sup>1</sup> / <sub>2</sub>	36 <sup>1</sup> / <sub>2</sub>
12. Hardcastle (White) .. .. .	.. ..	40 <sup>1</sup> / <sub>2</sub>	42	49 <sup>3</sup> / <sub>8</sub>	33 <sup>7</sup> / <sub>8</sub>
13. Golden Drop (Red), Hallett's	39 <sup>1</sup> / <sub>2</sub>	49 <sup>3</sup> / <sub>8</sub>	44 <sup>1</sup> / <sub>4</sub>	51 <sup>3</sup> / <sub>8</sub>	38 <sup>1</sup> / <sub>2</sub>
14. Victoria White, Hallett's ..	33 <sup>3</sup> / <sub>8</sub>	45 <sup>1</sup> / <sub>4</sub>	38 <sup>1</sup> / <sub>4</sub>	44 <sup>1</sup> / <sub>4</sub>	33 <sup>3</sup> / <sub>4</sub>
15. Hunter's White, Hallett's ..	26 <sup>3</sup> / <sub>8</sub>	39 <sup>3</sup> / <sub>8</sub>	38 <sup>3</sup> / <sub>8</sub>	45 <sup>3</sup> / <sub>8</sub>	26 <sup>3</sup> / <sub>8</sub>
16. Original Red, Hallett's ..	30	35 <sup>1</sup> / <sub>4</sub>	36 <sup>3</sup> / <sub>8</sub>	43 <sup>3</sup> / <sub>8</sub>	26
17. White Chiddam .. .. .	26 <sup>3</sup> / <sub>8</sub>	38 <sup>3</sup> / <sub>8</sub>	31 <sup>3</sup> / <sub>8</sub>	42	32 <sup>3</sup> / <sub>8</sub>
18. Red Rostock .. .. .	37	.. ..	46 <sup>1</sup> / <sub>2</sub>	53 <sup>3</sup> / <sub>8</sub>	37 <sup>3</sup> / <sub>8</sub>
19. Casey's White .. .. .	29 <sup>3</sup> / <sub>8</sub>	42 <sup>1</sup> / <sub>8</sub>	37 <sup>1</sup> / <sub>2</sub>	52 <sup>1</sup> / <sub>8</sub>	39
20. Golden Rough-chaff (Red) ..	33	39 <sup>1</sup> / <sub>4</sub>	38 <sup>1</sup> / <sub>2</sub>	52 <sup>1</sup> / <sub>8</sub>	38 <sup>3</sup> / <sub>8</sub>
21. Bole's Prolific (Red) .. ..	33 <sup>3</sup> / <sub>8</sub>	42 <sup>3</sup> / <sub>8</sub>	45 <sup>1</sup> / <sub>4</sub>	48 <sup>1</sup> / <sub>8</sub>	43 <sup>3</sup> / <sub>8</sub>
22. Club Wheat (Red) .. .. .	36	45 <sup>3</sup> / <sub>8</sub>	47 <sup>1</sup> / <sub>2</sub>	59 <sup>3</sup> / <sub>8</sub>	46 <sup>3</sup> / <sub>8</sub>
23. Main's Standing White .. ..	.. ..	.. ..	.. ..	.. ..	.. ..
24. Main's Rough-chaff (White) ..	.. ..	.. ..	.. ..	.. ..	.. ..
25. Belgian (White) .. .. .	.. ..	.. ..	.. ..	.. ..	.. ..
26. Webb's Challenge (White) ..	.. ..	.. ..	.. ..	.. ..	.. ..
Means .. .. .	32 <sup>1</sup> / <sub>2</sub>	42 <sup>1</sup> / <sub>4</sub>	38 <sup>7</sup> / <sub>8</sub>	50 <sup>3</sup> / <sub>8</sub>	36 <sup>1</sup> / <sub>2</sub>

DESCRIPTIONS OF WHEAT.	WEIGHT PER				
	1871;	1872;	1873;	1874;	1875;
1. White-chaff (Red) .. .. .	.. ..	.. ..	58 <sup>1</sup> / <sub>2</sub>	61 <sup>5</sup> / <sub>8</sub>	61
2. Rivett's (Red) .. .. .	.. ..	.. ..	57 <sup>1</sup> / <sub>8</sub>	58 <sup>1</sup> / <sub>8</sub>	58 <sup>3</sup> / <sub>8</sub>
3. Chubb Wheat (Red) .. .. .	60 <sup>1</sup> / <sub>4</sub>	61 <sup>7</sup> / <sub>8</sub>	59 <sup>1</sup> / <sub>8</sub>	61 <sup>1</sup> / <sub>8</sub>	59 <sup>1</sup> / <sub>2</sub>
4. Red-chaff (White) .. .. .	61 <sup>5</sup> / <sub>8</sub>	62 <sup>3</sup> / <sub>8</sub>	60 <sup>3</sup> / <sub>8</sub>	61 <sup>1</sup> / <sub>2</sub>	60 <sup>1</sup> / <sub>2</sub>
5. Browick (Red) .. .. .	60	61 <sup>3</sup> / <sub>8</sub>	59 <sup>1</sup> / <sub>2</sub>	61 <sup>1</sup> / <sub>4</sub>	59 <sup>3</sup> / <sub>8</sub>
6. Red Wonder .. .. .	59	60 <sup>7</sup> / <sub>8</sub>	60	62 <sup>1</sup> / <sub>4</sub>	60 <sup>3</sup> / <sub>8</sub>
7. Burwell (Old Red Lammas) ..	62	63	61 <sup>1</sup> / <sub>2</sub>	63 <sup>3</sup> / <sub>8</sub>	61 <sup>1</sup> / <sub>2</sub>
8. Bristol Red .. .. .	60 <sup>3</sup> / <sub>8</sub>	61 <sup>1</sup> / <sub>2</sub>	60 <sup>1</sup> / <sub>2</sub>	61 <sup>3</sup> / <sub>8</sub>	60 <sup>1</sup> / <sub>2</sub>
9. Red Nursery .. .. .	63	65	62	65 <sup>1</sup> / <sub>2</sub>	62 <sup>1</sup> / <sub>2</sub>
10. Red Langham .. .. .	60 <sup>3</sup> / <sub>8</sub>	61 <sup>1</sup> / <sub>4</sub>	60 <sup>1</sup> / <sub>2</sub>	63	60 <sup>3</sup> / <sub>8</sub>
11. Woolly Ear (White) .. .. .	61 <sup>1</sup> / <sub>8</sub>	62 <sup>1</sup> / <sub>8</sub>	61 <sup>3</sup> / <sub>8</sub>	62 <sup>3</sup> / <sub>8</sub>	57 <sup>3</sup> / <sub>8</sub>
12. Hardcastle (White) .. .. .	.. ..	61 <sup>7</sup> / <sub>8</sub>	59 <sup>3</sup> / <sub>8</sub>	63	59 <sup>7</sup> / <sub>8</sub>
13. Golden Drop (Red), Hallett's	61 <sup>3</sup> / <sub>8</sub>	63	59 <sup>3</sup> / <sub>8</sub>	63	61 <sup>1</sup> / <sub>8</sub>
14. Victoria White, Hallett's ..	61	62 <sup>3</sup> / <sub>8</sub>	59 <sup>3</sup> / <sub>8</sub>	62 <sup>1</sup> / <sub>4</sub>	61 <sup>3</sup> / <sub>8</sub>
15. Hunter's White, Hallett's ..	59 <sup>1</sup> / <sub>4</sub>	61 <sup>3</sup> / <sub>8</sub>	57 <sup>1</sup> / <sub>4</sub>	61 <sup>1</sup> / <sub>8</sub>	60 <sup>1</sup> / <sub>2</sub>
16. Original Red, Hallett's ..	58 <sup>5</sup> / <sub>8</sub>	60	56 <sup>1</sup> / <sub>8</sub>	60 <sup>3</sup> / <sub>8</sub>	58 <sup>3</sup> / <sub>8</sub>
17. White Chiddam .. .. .	62 <sup>1</sup> / <sub>2</sub>	63	59 <sup>1</sup> / <sub>2</sub>	62 <sup>3</sup> / <sub>8</sub>	61 <sup>3</sup> / <sub>8</sub>
18. Red Rostock .. .. .	60 <sup>1</sup> / <sub>8</sub>	.. ..	56 <sup>3</sup> / <sub>8</sub>	59 <sup>3</sup> / <sub>8</sub>	59 <sup>3</sup> / <sub>8</sub>
19. Casey's White .. .. .	60 <sup>3</sup> / <sub>8</sub>	61 <sup>1</sup> / <sub>2</sub>	58 <sup>3</sup> / <sub>8</sub>	60 <sup>3</sup> / <sub>8</sub>	60
20. Golden Rough-chaff (Red) ..	61 <sup>5</sup> / <sub>8</sub>	62 <sup>1</sup> / <sub>2</sub>	59 <sup>3</sup> / <sub>8</sub>	62 <sup>3</sup> / <sub>8</sub>	61 <sup>3</sup> / <sub>8</sub>
21. Bole's Prolific (Red) .. ..	61 <sup>1</sup> / <sub>2</sub>	62 <sup>3</sup> / <sub>8</sub>	57 <sup>1</sup> / <sub>2</sub>	62	60 <sup>7</sup> / <sub>8</sub>
22. Club Wheat (Red) .. .. .	60 <sup>3</sup> / <sub>8</sub>	61 <sup>3</sup> / <sub>8</sub>	58 <sup>1</sup> / <sub>2</sub>	61 <sup>7</sup> / <sub>8</sub>	61 <sup>3</sup> / <sub>8</sub>
23. Main's Standing White .. ..	.. ..	.. ..	.. ..	.. ..	.. ..
24. Main's Rough-chaff (White) ..	.. ..	.. ..	.. ..	.. ..	.. ..
25. Belgian (White) .. .. .	.. ..	.. ..	.. ..	.. ..	.. ..
26. Webb's Challenge (White) ..	.. ..	.. ..	.. ..	.. ..	.. ..
Means .. .. .	60 <sup>3</sup> / <sub>4</sub>	62 <sup>1</sup> / <sub>8</sub>	59 <sup>1</sup> / <sub>2</sub>	61 <sup>7</sup> / <sub>8</sub>	60 <sup>1</sup> / <sub>2</sub>

(1) All the crops were more or less affected by wire-worm, large bare patches appearing on many plots; and much grain was 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 sown for the crop of 1880 did not germinate at all, and of that which did come up a great deal was afterward destroyed by wire-worm, so that up to the end of March it was a question whether there would be a plant left in the field worth saving. With the thin wheat plant there was an extraordinary growth of weeds, which the wet month of July much favoured and made it impossible to keep under. The white

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

1876; Harpenden Field; 2 cwt. Nitrate Soda; after Mangels (with Dung), 1875, carted off.	1877; Sawpit Field; 1½ cwt. Nitrate Soda; after Mangels (with Dung), 1876, carted off.	1878; Foster's Field; 2 cwt. Nitrate, after White Turnips (with Dung and Artificial), 1877, part Fed, part carted off.	1879; (1) Little Knott-Wood Field; 2 cwt. Nitrate; after Clover. First and second Crops, as Hay; afterwards Fed.	1880; (2) Harpenden Field; 50 bushels of Soot; after Clover unmanured. One Crop as Hay; afterwards Fed.	1881; Rickyard Field; 1½ cwt. Nitrate Soda; after Mangels (with Dung and Guano), 1880, carted off.	1882; (4) Foster's Field; 2 cwt. Nitrate Soda; after Fallow 1881.	(3) Averages, 8 Years, 1871 to 1878 inclusive.	Nos.
<b>PER ACRE. Bushels.</b>								
49½	48¾	59	22¾	28½	54½		48¾	1
42½	49½	66½	16	22¾	52½		53¾	2
40½	41½	55½	20¾	14¾	.. ..		41½	3
43¾	41	.. ..	.. ..	.. ..	.. ..		39	4
39½	40¾	49½	24	19½	47¼		41¾	5
44¼	41¾	52½	22	28½	45¾		42¾	6
38¾	39	46¼	27	27	44¾		39¾	7
42¾	44½	52½	21¾	30¾	46¼		42½	8
37½	40¾	47¾	30¾	27½	46		39½	9
42½	42¾	50¾	25¼	28¾	48½		41¾	10
46¾	37½	48¼	20	21	44¾		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	42¼	17¾	22¾	.. ..		37¾	15
40½	44¾	.. ..	.. ..	.. ..	.. ..		36½	16
37½	37¾	49¾	11½	27¾	47½		37½	17
40	46¾	57	8½	28¾	45¾		45½	18
45½	43	47¾	15¾	24¼	42¾		42½	19
38¾	36¾	46¾	14¾	31¼	41¾		40¾	20
41¾	44¾	52¾	31	24½	46¾		44	21
47¾	49½	61	23½	16¾	43¾		49½	22
.. ..	.. ..	50½	32½	16½	44¼		50½	23
.. ..	.. ..	50¾	24	15¾	39¾		50¾	24
.. ..	.. ..	52½	21¾	9¾	.. ..		52½	25
.. ..	.. ..	.. ..	.. ..	30¼	39½		.. ..	26
42½	42¾	51¾	21¼	23½	45¾		43½	Means.
<b>BUSHEL. Lbs.</b>								
63	60¾	60¾	51¾	54¾	57¾		61	1
59¾	60¼	58¾	49¾	55¾	56¾		58¾	2
62¾	60½	61½	53	53¾	.. ..		60¾	3
63½	60½	.. ..	.. ..	.. ..	.. ..		61¾	4
62½	60¾	62½	52¾	54¾	60½		61	5
63	61¼	63	52½	56¾	60¼		61¼	6
64¾	61¼	64	55¼	58½	61		62¾	7
62¾	59¾	63½	54¾	57½	60¾		61¼	8
66	58¾	62¾	57¼	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	61¼		62½	13
63¾	61	61¾	51½	56¼	60¾		61¾	14
63¾	59½	62½	55	59¼	.. ..		60¾	15
62¾	59	.. ..	.. ..	.. ..	.. ..		59¾	16
64¾	61½	61½	54¾	58	60¾		62	17
63½	59½	60¼	54	56¾	60¾		59¾	18
63½	59¾	60¾	55¾	58½	61¾		60¾	19
65½	60¾	61¾	54¼	57¾	62¼		62	20
63¾	60¼	63½	55¼	55¾	61¾		61½	21
63¼	59¾	62½	52¾	55¾	60¾		61½	22
.. ..	.. ..	61¾	56¼	57½	61		61¾	23
.. ..	.. ..	61¾	53½	56¼	61½		61¾	24
.. ..	.. ..	60¾	51¾	53¾	.. ..		60¾	25
.. ..	.. ..	.. ..	.. ..	59½	58¾		.. ..	26
63½	60¼	62	53½	56¾	60¾		61¼	Means.

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 seedsmen, 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.