

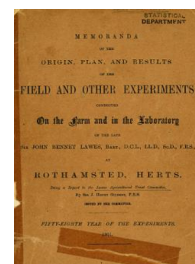
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# Yields of the Field Experiments 1901

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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 crop 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; 1 1/2 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; 1 1/2 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.								
49 1/2	48 3/8	59	22 3/4	28 1/8	54 1/2		48 7/8	1
42 1/2	49 3/8	66 1/8	16	22 3/8	52 1/4		53 3/8	2
40 1/2	41 1/2	55 1/8	20 3/4	14 7/8	.. ..		41 1/2	3
43 3/4	41	.. ..	.. ..	.. ..	.. ..		39	4
39 1/2	40 3/8	49 1/2	24	19 3/8	47 1/4		41 3/8	5
44 1/4	41 3/8	52 1/8	22	28 1/2	45 7/8		42 3/8	6
38 3/8	39	46 1/2	27	27	44 3/4		39 3/8	7
42 3/8	44 1/8	52 1/8	21 3/8	30 3/8	46 1/4		42 1/8	8
37 1/2	40 3/8	47 3/4	30 7/8	27 1/2	46		39 1/2	9
42 1/2	42 7/8	50 3/4	25 3/4	28 3/8	48 1/2		41 3/8	10
46 3/8	37 1/2	48 1/2	20	21	44 1/8		41 3/8	11
44	42 1/8	54	21 1/2	24 3/8	45 3/8		44 3/8	12
48 3/8	49 1/2	52 3/4	21	18 7/8	50 3/4		46 3/4	13
41 1/2	42 3/8	43 7/8	14 7/8	15 3/4	44		40 3/8	14
43 1/2	40	42 1/2	17 3/8	22 3/4	.. ..		37 3/8	15
40 1/2	44 3/8	.. ..	.. ..	.. ..	.. ..		36 1/2	16
37 1/2	37 3/8	49 3/4	11 7/8	27 3/8	47 1/4		37 1/2	17
40	46 3/8	57	8 1/2	28 3/8	45 3/4		45 1/8	18
45 1/2	43	47 3/4	15 3/4	24 1/2	42 7/8		42 1/8	19
38 3/8	36 3/8	46 3/4	14 3/8	31 1/2	41 3/8		40 3/8	20
41 3/8	44 3/4	52 3/4	31	24 1/2	46 1/2		44	21
47 3/8	49 1/2	61	23 1/2	16 3/8	43 3/8		49 1/2	22
.. ..	.. ..	50 1/8	32 1/2	16 1/2	44 1/4		50 1/8	23
.. ..	.. ..	50 3/8	24	15 3/4	39 3/8		50 3/8	24
.. ..	.. ..	52 1/2	21 3/4	9 3/4	.. ..		52 1/2	25
.. ..	.. ..	.. ..	.. ..	30 1/2	39 1/2		.. ..	26
42 1/2	42 7/8	51 3/4	21 1/2	23 1/8	45 3/4		43 1/2	Means.
BUSHSEL. Lbs.								
63	60 3/4	60 7/8	51 7/8	54 1/2	57 3/8		61	1
59 7/8	60 1/2	58 7/8	49 1/8	55 7/8	56 3/8		58 3/4	2
62 1/8	60 1/4	61 1/4	53	53 3/4	.. ..		60 3/4	3
63 1/8	60 1/4	.. ..	.. ..	.. ..	.. ..		61 3/8	4
62 1/2	60 3/4	62 1/2	52 3/8	54 3/8	60 1/2		61	5
63	61 1/4	63	52 3/4	56 3/8	60 1/2		61 1/2	6
64 1/2	61 1/2	64	55 1/2	58 3/8	61		62 5/8	7
62 3/4	59 3/8	63 1/8	54 3/8	57 1/8	60 3/4		61 1/2	8
66	58 3/4	62 3/8	57 1/2	59 3/8	61 3/8		63 1/8	9
63 3/8	61 1/8	63 1/8	54 1/2	56 3/4	59		61 3/8	10
63 3/8	59 7/8	62 1/8	52 1/8	55 3/8	60 3/8		61 3/8	11
63 1/2	59 7/8	61 1/2	52 3/8	55 3/8	60 1/2		61 3/8	12
64 3/4	61 3/4	63 1/2	52 3/4	55 3/4	61 1/2		62 1/2	13
63 3/4	61	61 3/4	51 1/2	56 1/4	60 7/8		61 3/4	14
63 3/8	59 1/4	62 1/8	55	59 1/4	.. ..		60 3/4	15
62 3/4	59	.. ..	.. ..	.. ..	.. ..		59 3/8	16
64 3/8	61 1/8	61 1/2	54 1/2	58	60 3/8		62	17
65 3/8	59 1/2	60 3/4	54	56 3/8	60 7/8		59 7/8	18
63 1/8	59 3/8	60 3/4	55 3/8	58 1/2	61 7/8		60 3/8	19
65 1/8	60 3/4	61 3/4	54 1/4	57 3/8	62 1/2		62	20
63 7/8	60 1/2	63 1/8	55 1/2	55 7/8	61 3/4		61 1/2	21
63 1/2	59 3/8	62 1/8	52 7/8	55 3/8	60 3/4		61 3/8	22
.. ..	.. ..	61 3/4	56 1/4	57 1/8	61		61 3/4	23
.. ..	.. ..	61 3/4	53 1/2	56 1/4	61 1/8		61 3/8	24
.. ..	.. ..	60 3/4	51 3/4	53 7/8	.. ..		60 3/4	25
.. ..	.. ..	.. ..	.. ..	59 1/8	58 3/8		.. ..	26
63 1/2	60 1/2	62	53 1/2	56 3/8	60 3/8		61 1/2	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.