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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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(110)

RESULTS OF EXPERIMENTS WITH DIFFERENT DESCRIPTIONS OF

DESCRIPTIONS OF WHEAT.	1871; Sawpit Field; 3 cwt. Guano; after Mangels, carted off.	1872; Foster's Field; 2 cwt. Super- phosphate, 2 cwt. Nitrate Soda; after Roots, carted off.	1873; Long Hoos Field; 1½ cwt. Nitrate; after Mangels (with Dung), carted off.	1874; Upper Harpenden Field; 2 cwt. Nitrate; after Mangels (with Dung), carted off.	1875; 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. Hardcastle (White) .. ..	.. ..	40½	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. Hardcastle (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 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

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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; after- wards Fed.	1881; Rickyard Field; 1½ cwt. Nitrate Soda; after Mangels (with Dung and Guano), 1880, carted off.	1882; (³) Foster's Field; 2 cwt. Nitrate Soda; after Fallow 1881.	(⁴) Averages, 8 Years, 1871 to 1878 inclusive.	Nos.
PER ACRE. Bushels.								
49½	48½	59	22¾	28½	54½		48½	1
42½	49½	66½	16	22½	52½		53½	2
40½	41½	55½	20¾	14½	.. ..		41½	3
43¾	41	.. ..	.. ..	.. ..	.. ..		39	4
39½	40½	49½	24	19½	47½		41½	5
44½	41½	52½	22	28½	45½		42½	6
38½	39	46½	27	27	44½		39½	7
42½	44½	52½	21½	30½	46½		42½	8
37½	40½	47½	30½	27½	46		39½	9
42½	42½	50½	25½	28½	48½		41½	10
46½	37½	48½	20	21	44½		41½	11
44	42½	54	21½	24½	45½		44½	12
48½	49½	52½	21	18½	50½		46½	13
41½	42½	43½	14½	15½	44		40½	14
43½	40	42½	17½	22½	.. ..		37½	15
40½	44½	.. ..	.. ..	.. ..	.. ..		36½	16
37½	37½	49½	11½	27½	47½		37½	17
40	46½	57	8½	28½	45½		45½	18
45½	43	47½	15½	24½	42½		42½	19
38½	36½	46½	14½	31½	41½		40½	20
41½	44½	52½	31	24½	46½		44	21
47½	49½	61	23½	16½	43½		49½	22
.. ..	.. ..	50½	32½	16½	44½		50½	23
.. ..	.. ..	50½	24	15½	39½		50½	24
.. ..	.. ..	52½	21½	9½	.. ..		52½	25
.. ..	.. ..	.. ..	.. ..	30½	39½		.. ..	26
42½	42½	51½	21½	23½	45½		43½	Means.
BUSHEL. Lbs.								
63	60½	60½	51½	54½	57½		61	1
59½	60½	58½	49½	55½	56½		58½	2
62½	60½	61½	53	53½	.. ..		60½	3
63½	60½	.. ..	.. ..	.. ..	.. ..		61½	4
62½	60½	62½	52½	54½	60½		61	5
63	61½	63	52½	56½	60½		61½	6
64½	61½	64	55½	58½	61		62½	7
62½	59½	63½	54½	57½	60½		61½	8
66	58½	62½	57½	59½	61½		63½	9
63½	61½	63½	54½	56½	59		61½	10
63½	59½	62½	52½	55½	60½		61½	11
63½	59½	61½	52½	55½	60½		61½	12
64½	61½	63½	52½	55½	61½		62½	13
63½	61	61½	51½	56½	60½		61½	14
63½	59½	62½	55	59½	.. ..		60½	15
62½	59	.. ..	.. ..	.. ..	.. ..		59½	16
64½	61½	61½	54½	58	60½		62	17
63½	59½	60½	54	56½	60½		59½	18
63½	59½	60½	55½	58½	61½		60½	19
65½	60½	61½	54½	57½	62½		62	20
63½	60½	63½	55½	55½	61½		61½	21
63½	59½	62½	52½	55½	60½		61½	22
.. ..	.. ..	61½	56½	57½	61		61½	23
.. ..	.. ..	61½	53½	56½	61½		61½	24
.. ..	.. ..	60½	51½	53½	.. ..		60½	25
.. ..	.. ..	.. ..	.. ..	59½	58½		.. ..	26
63½	60½	62	53½	56½	60½		61½	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.