ROTHAMSTED RESEARCH

Yields of the Field Experiments 1901

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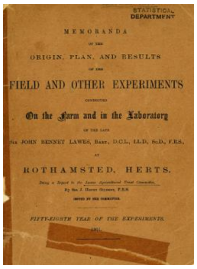

Different Descriptions of Wheat; Various Fields

Rothamsted Research

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RESULTS OF EXPERIMENTS WITH DIFFERENT DESCRIPTIONS OF

DESCRIPTIONS OF WHEAT.	1871; Sawpit Field; 3 cwts. Guano; after Mangels, carted off.	1872; Foster's Field; 2 cwts. Superphosphate, 2 cwts. Nitrate Soda; after Roots, carted off.	1873; Long Hoos Field; 1½ cwt. Nitrate; after Mangels (with Dung), carted off.	1874; Upper Harpenden Field; 2 cwts. 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)	.. ..	.. ..	40⅜	55⅛	40¼
2. Rivett's (Red)	.. ..	.. ..	48⅛	67	48⅜
3. Chubb Wheat (Red)	28⅜	40	35⅜	50½	38¼
4. Red-chaff (White)	32¾	37	35¼	48⅜	34¼
5. Browick (Red)	35¼	40½	38½	51⅛	38½
6. Red Wonder	31¼	43¾	37⅛	55⅛	33¼
7. Burwell (Old Red Lammas)	31⅛	41¼	35⅛	47¼	38½
8. Bristol Red	29⅞	44⅜	39½	53⅜	31⅝
9. Red Nursery	34⅛	45¼	27⅛	41⅛	39
10. Red Langham	30¾	43¾	34⅛	53⅛	34⅞
11. Woolly Ear (White)	31¼	42¾	37	51¼	36⅛
12. Hardcastle (White)	.. ..	46½	42	49⅝	33⅞
13. Golden Drop (Red), Hallett's	39⅛	49¾	44¼	51¾	38⅛
14. Victoria White, Hallett's	33¾	45¼	38¼	44¼	33¾
15. Hunter's White, Hallett's	26⅞	39¾	38⅝	45⅜	26⅜
16. Original Red, Hallett's	30	35½	36⅜	43⅝	26
17. White Chiddam	26⅞	38¾	31⅜	42	32⅜
18. Red Rostock	37	.. ..	46¼	53¾	37⅜
19. Casey's White	29⅞	42⅛	37½	52⅛	39
20. Golden Rough-chaff (Red)	33	39¼	38½	52⅛	38¾
21. Bole's Prolific (Red)	33⅝	42¾	45¼	48⅛	43¾
22. Club Wheat (Red)	36	45⅜	47½	59⅝	46⅝
23. Main's Standing White	.. ..	.. ..	.. ..	.. ..	.. ..
24. Main's Rough-chaff (White)	.. ..	.. ..	.. ..	.. ..	.. ..
25. Belgian (White)	.. ..	.. ..	.. ..	.. ..	.. ..
26. Webb's Challenge (White)	.. ..	.. ..	.. ..	.. ..	.. ..
Means	32¼	42¼	38⅞	50⅜	36⅜
WEIGHT PER					
1. White-chaff (Red)	.. ..	.. ..	58½	61⅝	61
2. Rivett's (Red)	.. ..	.. ..	57⅛	58⅛	58⅛
3. Chubb Wheat (Red)	60¼	61⅞	59⅛	61⅛	59½
4. Red-chaff (White)	61⅝	62¾	60¾	61½	60¼
5. Browick (Red)	60	61⅜	59½	61¼	59⅞
6. Red Wonder	59	60⅞	60	62¼	60¾
7. Burwell (Old Red Lammas)	62	63	61½	63½	61½
8. Bristol Red	60⅞	61½	60½	61⅝	60½
9. Red Nursery	63	65	62	65¼	62¼
10. Red Langham	60⅜	61¼	60½	63	60⅜
11. Woolly Ear (White)	61⅛	62⅛	61⅛	62¾	57¾
12. Hardcastle (White)	.. ..	61⅞	59¾	63	59⅞
13. Golden Drop (Red), Hallett's	61⅜	63	59¾	63	61⅛
14. Victoria White, Hallett's	61	62⅝	59¾	62¼	61⅜
15. Hunter's White, Hallett's	59¼	61⅜	57¼	61⅛	60½
16. Original Red, Hallett's	58⅝	60	56⅛	60¾	58⅛
17. White Chiddam	62¼	63	59¼	62¾	61¾
18. Red Rostock	60⅛	.. ..	56¾	59⅞	59¾
19. Casey's White	60⅜	61½	58¾	60¾	60
20. Golden Rough-chaff (Red)	61⅝	62½	59¾	62½	61¾
21. Bole's Prolific (Red)	61½	62⅜	57½	62	60⅞
22. Club Wheat (Red)	60⅜	61⅞	58¼	61⅞	61¾
23. Main's Standing White	.. ..	.. ..	.. ..	.. ..	.. ..
24. Main's Rough-chaff (White)	.. ..	.. ..	.. ..	.. ..	.. ..
25. Belgian (White)	.. ..	.. ..	.. ..	.. ..	.. ..
26. Webb's Challenge (White)	.. ..	.. ..	.. ..	.. ..	.. ..
Means	60¾	62⅛	59¼	61⅞	60[illegible]

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

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WHEAT, 12 Years, 1871–1882, each Year in a different Field.

1876; Harpenden Field; 2 cwts. Nitrate Soda; after Mangels (with Dung), 1875, carted off.	1877; Sawpit Field; 1¾ cwt. Nitrate Soda; after Mangels (with Dung), 1876, carted off.	1878; Foster's Field; 2 cwts. Nitrate, after White Turnips (with Dung and Artificial), 1877, part Fed, part carted off.	1879; (1) Little Knott-Wood Field; 2 cwts. 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 cwts. Nitrate Soda; after Fallow 1881.	(3) Averages, 8 Years, 1871 to 1878 inclusive.	Nos.
PER ACRE. Bushels.								
49½	48⅜	59	22¾	28⅛	54½		48⅞	1
42½	49⅝	66⅛	16	22⅝	52¼		53⅝	2
40¼	41½	55⅛	20¾	14⅞	.. ..		41¼	3
43¾	41	.. ..	.. ..	.. ..	.. ..		39	4
39⅛	40⅞	49½	24	19⅜	47¼	Produce damaged; not weighed; see note 4.	41⅝	5
44¼	41⅝	52⅛	22	28¼	45⅞		42⅜	6
38⅜	39	46¼	27	27	44¾		39⅝	7
42⅜	44⅛	52⅛	21⅝	30⅝	46¼		42⅛	8
37½	40⅜	47¾	30⅞	27½	46		39⅛	9
42½	42⅞	50¾	25¾	28⅝	48½		41⅜	10
46⅝	37½	48¼	20	21	44⅛		41⅜	11
44	42⅛	54	21½	24⅜	45⅝		44⅝	12
48⅜	49½	52¾	21	18⅞	50¾		46¾	13
41⅛	42⅝	43⅞	14⅞	15¾	44		40⅜	14
43½	40	42¼	17⅜	22¾	.. ..		37⅞	15
40⅛	44⅜	.. ..	.. ..	.. ..	.. ..		36½	16
37½	37⅝	49¾	11⅞	27⅜	47⅛		37⅛	17
40	46⅜	57	8½	28⅜	45¾		45⅛	18
45½	43	47¾	15⅜	24⅛	42⅞		42⅛	19
38⅜	36⅜	46¾	14⅜	31¼	41⅝		40⅜	20
41⅜	44¾	52¾	31	24½	46½		44	21
47⅝	49½	61	23½	16⅜	43⅜		49¼	22
.. ..	.. ..	50⅛	32⅛	16½	44¼		50⅛	23
.. ..	.. ..	50⅝	24	15⅞	39⅝		50⅝	24
.. ..	.. ..	52½	21¾	9¾	.. ..		52½	25
.. ..	.. ..	.. ..	.. ..	30¼	39½		.. ..	26
42½	42⅞	51¾	21¼	23⅛	45¾		43½	Means.
BUSHEL. Lbs.								
63	60¾	60⅞	51⅞	54¾	57⅝		61	1
59⅞	60¼	58⅞	49⅛	55⅞	56⅜		58¾	2
62⅞	60¼	61¼	53	53¾	.. ..		60¾	3
63⅛	60¼	.. ..	.. ..	.. ..	.. ..		61⅜	4
62½	60¾	62½	52⅜	54⅞	60⅛	Produce damaged; not weighed; see note 4.	61	5
63	61¼	63	52½	56⅝	60¼		61¼	6
64¾	61¼	64	55¼	58⅛	61		62⅝	7
62¾	59⅜	63⅛	54⅜	57⅛	60¾		61¼	8
66	58¾	62⅜	57¼	59⅞	61⅜		63⅛	9
63⅝	61⅛	63⅛	54½	56¾	59		61⅝	10
63⅝	59⅞	62⅛	52⅛	55⅝	60⅝		61⅜	11
63½	59⅞	61½	52⅜	55⅜	60½		61⅜	12
64¾	61¾	63½	52¾	55¾	61¼		62½	13
63¾	61	61¾	51½	56¼	60⅞		61¾	14
63⅝	59¼	62⅛	55	59¼	.. ..		60¾	15
62¾	59	.. ..	.. ..	.. ..	.. ..		59⅜	16
64⅝	61⅛	61½	54½	58	60⅝		62	17
63⅛	59½	60¼	54	56⅝	60⅞		59⅞	18
63⅛	59⅜	60¾	55⅜	58¼	61⅞		60⅝	19
65⅛	60¾	61¾	54¼	57⅜	62¼		62	20
63⅞	60¼	63⅛	55¼	55⅞	61¾		61½	21
63¼	59⅜	62⅛	52⅞	55⅜	60¾		61⅛	22
.. ..	.. ..	61¾	56¼	57⅛	61		61⅜	23
.. ..	.. ..	61⅜	53¼	56¼	61⅛		61⅜	24
.. ..	.. ..	60¾	51¾	53⅞	.. ..		60¾	25
.. ..	.. ..	.. ..	.. ..	59⅛	58⅞		.. ..	26
63½	60¼	62	53½	56⅜	60⅜		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 seed-man, not grown on the farm, as were the others.

(2) 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.

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