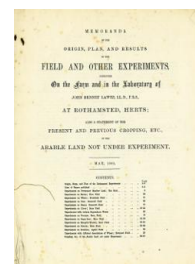


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Memoranda of the Field Experiments at Rothamsted: May 1881



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Experiments With Different Descriptions of Wheat: Harpenden Field

Rothamsted Research

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EXPERIMENTS WITH DIFFERENT DESCRIPTIONS OF WHEAT, IN 1881, AND SUMMARY OF RESULTS OBTAINED IN PREVIOUS YEARS.

Season 1881.	1871;	1872;	1873;	1874;	1875;	1876;	1877;	1878;	1879; (C)	1880; (C)	1881;	1882;	(C)	Nos.
RICKYARD FIELD. 1½ Cwt. Nitrate Soda, after Mangolds (with Dung and Guano) Carted off.	Sawpit Field; 3 cwt. Guano; after Mangolds, carted off.	Foster's Field; 2 cwt. Super- phosphate, 2 cwt. Nitrate Soda; after Hoots, carted off.	Long Hoos Field; 1½ cwt. Nitrate; after Mangolds, (with Dung), carted off.	Upton Harpenden Field; 2 cwt. Nitrate Soda; after Mangolds (with Dung), carted off.	Little Knot- wood Field; 1½ cwt. Nitrate Soda; after Mangolds (with Dung), 1874, carted off.	Harpenden Field; 2 cwt. Nitrate Soda; after Mangolds (with Dung), 1875, carted off.	Sawpit Field; 1½ cwt. Nitrate Soda; after Mangolds (with Dung), 1876, carted off.	Foster's Field; 2 cwt. Nitrate, after White Turnips (with Dung and Guano), 1877, carted off.	Little Knot- wood Field; 2 cwt. Nitrate, after Clover. First and second Crops; Mangolds afterwards; Feet.	Harpenden Field; 50 bushels of Soot; after Clover unmanured. Oats; Mangolds and Guano wards Red. 1880 carted off.	Blackwell Field; 1½ cwt. Nitrate Soda; after Mangolds (with Dung and Guano wards Red. 1880 carted off.		Averages, 1879 inclusive.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 Means.
1. White-chaff (Red)	46½	1
2. Rivett's (Red)	58½	2
3. Chubb Wheat (White)	51½	3
4. Red-chaff (White)	41½	4
5. Brownick (Red)	89	5
6. Red Wonder	41½	6
7. Burwell (Old Red Lammus)	42½	7
8. Bristol Red	39½	8
9. Red Nunsey	42½	9
10. Red Langham	39½	10
11. Woolly Ear (White)	41½	11
12. Handcastle (White)	44½	12
13. Golden Drop (Red), Hallett's	40½	13
14. Victoria White, Hallett's	40½	14
15. Hunter's White, Hallett's	37½	15
16. Original Red, Hallett's	37½	16
17. White Chiddan	37½	17
18. Red Rostock	37½	18
19. Casey's White	45½	19
20. Golden Rough-chaff (Red)	40½	20
21. Bole's Prolific (Red)	44	21
22. Club Wheat (Red)	40½	22
23. Main's Standing White	50½	23
24. Main's Rough-chaff (White)	50½	24
25. Belgian (White)	52½	25
26. Webb's Challenge (White)	30½	26
Means	52½	42½	38½	50½	36½	42½	42½	51½	21½	29½	..	..	45½	Means.

WEIGHT PER BUSHEL, Lbs.

1. White-chaff (Red)	..	..	..	..	..	..	..	..	..	..	..	..	61	1
2. Rivett's (Red)	..	..	..	..	..	..	..	..	..	..	..	..	58½	2
3. Chubb Wheat (White)	..	..	..	..	..	..	..	..	..	..	..	..	60½	3
4. Red-chaff (White)	..	..	..	..	..	..	..	..	..	..	..	..	61½	4
5. Brownick (Red)	..	..	..	..	..	..	..	..	..	..	..	..	61	5
6. Red Wonder	..	..	..	..	..	..	..	..	..	..	..	..	61½	6
7. Burwell (Old Red Lammus)	..	..	..	..	..	..	..	..	..	..	..	..	61½	7
8. Bristol Red	..	..	..	..	..	..	..	..	..	..	..	..	61½	8
9. Red Nunsey	..	..	..	..	..	..	..	..	..	..	..	..	61½	9
10. Red Langham	..	..	..	..	..	..	..	..	..	..	..	..	61½	10
11. Woolly Ear (White)	..	..	..	..	..	..	..	..	..	..	..	..	61½	11
12. Handcastle (White)	..	..	..	..	..	..	..	..	..	..	..	..	61½	12
13. Golden Drop (Red), Hallett's	..	..	..	..	..	..	..	..	..	..	..	..	61½	13
14. Victoria White, Hallett's	..	..	..	..	..	..	..	..	..	..	..	..	61½	14
15. Hunter's White, Hallett's	..	..	..	..	..	..	..	..	..	..	..	..	61½	15
16. Original Red, Hallett's	..	..	..	..	..	..	..	..	..	..	..	..	61½	16
17. White Chiddan	..	..	..	..	..	..	..	..	..	..	..	..	61½	17
18. Red Rostock	..	..	..	..	..	..	..	..	..	..	..	..	61½	18
19. Casey's White	..	..	..	..	..	..	..	..	..	..	..	..	61½	19
20. Golden Rough-chaff (Red)	..	..	..	..	..	..	..	..	..	..	..	..	61½	20
21. Bole's Prolific (Red)	..	..	..	..	..	..	..	..	..	..	..	..	61½	21
22. Club Wheat (Red)	..	..	..	..	..	..	..	..	..	..	..	..	61½	22
23. Main's Standing White	..	..	..	..	..	..	..	..	..	..	..	..	61½	23
24. Main's Rough-chaff (White)	..	..	..	..	..	..	..	..	..	..	..	..	61½	24
25. Belgian (White)	..	..	..	..	..	..	..	..	..	..	..	..	61½	25
26. Webb's Challenge (White)	..	..	..	..	..	..	..	..	..	..	..	..	61½	26
Means	62½	62½	59½	61½	60½	63½	60½	62	53½	56½	..	..	61½	Means.

(C) 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.
 (D) Owing doubtless in great part to the imperfect development of the 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 up to the end of March it was a question whether there would be a plant left in the field at sowing. With the exception of the crops of 1879 and 1880, the crops were generally grown in the best soil on the farm, which the wet month of July much favoured, and made it impossible to keep under. The white 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.
 (E) Owing to the produce of 1879 and 1880 being so exceptionally bad, that of those years is not included in the averages.