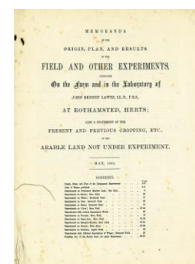


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# Memoranda of the Field Experiments at Rothamsted: May 1881



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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. RICKYARD FIELD. 1½ Cwt. Nitrate Soda, after Mangolds (with Dung and Guano) Carted off.	1871: Sawpit Field; 3 cwt. Guano; after Mangolds, carted off.	1872: Foster's Field; 2 cwt. Super- phosphate, 2 cwt. Nitrate Soda; after Hoots, carted off.	1873: Long Hoos Field; 1½ cwt. Nitrate; after Mangolds, (with Dung), carted off.	1874: Upton Harpenden Field; 2 cwt. Nitrate Soda; after Mangolds (with Dung), carted off.	1875: Little Knott- Wood Field; 1½ cwt. Nitrate Soda; after Mangolds (with Dung), carted off.	1876: Harpenden Field; 2 cwt. Nitrate Soda; after Mangolds (with Dung), carted off.	1877: Sawpit Field; 1½ cwt. Nitrate Soda; after Mangolds (with Dung), 1876, carted off.	1878: Foster's Field; 2 cwt. Nitrate, after White Turnips (with Dung as Above), 1877, carted off. part carted off.	1879; (C) Little Knott- Wood Field; 2 cwt. Nitrate, after Clover. First and second Crops; Mangolds as Above; 1877, carted off. Feet.	1880; (C) Harpenden Field; 50 bushels of Soot; after Clover unmanured. Oats; Mangolds as Above; Hay; Hoots; wards Red. 1880 carted off.	1882; Averages, (C) 1879 inclusive.	Nos.
1. White-chaff (Red)	..	..	40½	55½	40½	49½	48½	59	22½	28½	46½	1
2. Rivett's (Red)	..	..	48½	67	48½	42½	49½	66½	42½	28½	53½	2
3. Chubb Wheat (White)	28½	40	35½	50½	38½	40½	41½	55½	20½	14½	51½	3
4. Red-chaff (White)	..	..	48½	48½	34½	43½	41	..	..	..	41½	4
5. Brownick (Red)	..	..	38½	51½	38½	39½	40½	..	..	..	41½	5
6. Red Wonder	..	..	37½	45½	33½	41½	39½	..	..	..	42½	6
7. Burwell (Old Red Lammus)	31½	41½	35½	47½	38½	38½	41½	46½	27	28½	43½	7
8. Bristol Red	..	..	44½	53½	31½	43½	44½	52½	21½	30½	49½	8
9. Red Nunsey	..	..	29½	41½	39	37½	40½	47½	27½	27½	42½	9
10. Red Langham	..	..	45½	53½	34½	42½	42½	50½	25½	28½	44½	10
11. Woolly Ear (White)	..	..	42½	51½	36½	46½	37½	48½	21	21	44½	11
12. Handcastle (White)	..	..	42	49½	44	42½	44	54	21½	24½	44½	12
13. Golden Drop (Red), Hallett's	..	..	44½	51½	38½	48½	49½	52½	21	18½	45½	13
14. Victoria White, Hallett's	..	..	45½	51½	38½	44½	45½	43½	14½	15½	40½	14
15. Hunter's White, Hallett's	..	..	39½	45½	28½	41½	40	42½	17½	22½	37½	15
16. Original Red, Hallett's	..	..	35½	43½	26	40½	44½	42½	..	..	37½	16
17. White Chiddan	..	..	38½	49½	32½	42½	37½	49½	..	..	36½	17
18. Red Rostock	..	..	..	49½	37½	46½	46½	57	11½	97½	45½	18
19. Casey's White	..	..	..	49½	37½	46½	46½	47½	18½	28½	45½	19
20. Golden Rough-chaff (Red)	..	..	..	59½	38½	48½	38½	46½	15½	21½	43½	20
21. Bole's Prolific (Red)	..	..	..	59½	38½	48½	38½	46½	31½	31½	40½	21
22. Club Wheat (Red)	..	..	..	48½	43½	43½	43½	52½	31	28½	44	22
23. Main's Standing White	..	..	..	45½	46½	46½	46½	61	16½	16½	49½	23
24. Main's Rough-chaff (White)	..	..	..	..	..	..	..	50½	32½	18½	50½	24
25. Belgian (White)	..	..	..	..	..	..	..	52½	24	15½	52½	25
26. Webb's Challenge (White)	..	..	..	..	..	..	..	..	21½	30½	..	26
Means .. .. .	52½	42½	38½	50½	36½	42½	42½	51½	21½	29½	45½	Means.

DRESSED CORN PER ACRE. Bushels.

WEIGHT PER BUSHEL. Lbs.

(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.

(\*) 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 all.

(\*) 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 seedman, not grown on the farm, as were the others.

(\*) Owing to the produce of 1879 and 1880 being so exceptionally bad, that of those years is not included in the averages.