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Memoranda of the Plan and Results of the Rothamsted Field Experiments, May 1866



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Experiments on Barley; Hoos Field

Rothamsted Research

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YEAR AFTER YEAR ON THE SAME LAND, WITHOUT MANURE, AND WITH DIFFERENT KINDS OF MANURE. EXPERIMENTS ON THE GROWTH OF BARLEY

HOOS FIELD.

1848, Barley; 1849, Clover; 1850, Wheat; 1851, Barley manured Barley every year since; and, with one or two exceptions, the same Manures on the same Plots each year. off; Superphosphate of Lime, the Roots carted Previous Cropping—1847, Swedish Turnips, with Dung and with Ammonia salts.
First Experimental Barley Crop in 1852. Barley every year

(Area under experiment, about 44 acres.)

| X | | | | | (| $\begin{pmatrix} 3 \end{pmatrix}$ | | | | 5 | |
|---|--|-----------------|---|---|---------------------------------|--|--|---|---|--|---|
| PRODUCE PER ACRE. | 1, 1865. | Total Straw. | | cwts. 8 9 94 10 | 00 00 84 86 448 | 13 213 16 223 | 16 23 17 243 | 2222 2321 25121 25121 | 213 22 22 22 | 18½ 21½ | 103 248 93 |
| | h Seasor | Corn. | Weight per Bushel, | 1bs. 554. 554. 54.2 54.2 | 553 84844 848448 | び ひ ひ ひ 8 | 50 50 50 50 50 50 50 50 50 50 50 50 50 5 | 541 521 542 544 53 | 10 10 10 10 60 60 60 614-14-144-161 | 54 533 | 14.50 14.40 14.41 14.42 |
| | Fourteenth Season, 1865. | Dressed Corn. | Quantity. | Bushels. 18 222 22 22 242 | 21 194 524 | 2984 4681 4681 8614 8614 8614 8614 8614 86 | 333 474 841 149 49 | $\frac{35}{471}$ $\frac{41}{502}$ | 4 464 4 464 4 884 4 884 6 864 6 864 6 864 6 864 6 864 6 864 6 864 6 864 6 864 6 864 | 37 39 <u>\$</u> | 23 484 194 |
| | m, over -1865. | Ē | Total Straw. | cwts. 123- 141- 133- 153- | 134 124 284 | 193 283 214 294 | 231 251 24 44 34 44 | 22 22 24 25 25 24 25 24 24 24 25 24 24 24 24 24 24 24 24 24 24 24 24 24 | 284 30 284 30 40 40 40 | $23\frac{3}{4}$ (n) $27\frac{1}{4}$ (n) | $13_{\frac{1}{4}}^{(12)}$ $29_{\frac{1}{4}}^{(12)}$ $12_{\frac{3}{4}}^{(3)}$ |
| | Average per Annum, over 14 Years, 1852-1865. | Dressed Corn. | Weight per Bushel. | 1bs. 52 52 523 53 | 10 10 10 01 01 00 4444443 | 513 52243 5314143 5314143 | 512 522 5134 524 524 | 554 56 55 55 | 57 57 57 57 57 57 57 57 57 57 57 57 57 5 | $\frac{52\frac{1}{4}}{52}$ (11) | $\begin{array}{c} 52\frac{3}{4} {}^{(12)} \\ 52\frac{3}{4} {}^{(12)} \\ 52\frac{3}{4} {}^{(13)} \end{array}$ |
| | Average 14 Ye | Dressed | Quantity | Bushels. 213 273 273 243 304 | 22 23 44 44 63 80 티코리큐니4 | 341 481 361 474 474 | 393 393 51 | 39½ 51 45½ 54¾ | 46 44 44 44 44 44 44 44 44 | $\frac{38\frac{3}{4}}{43}\binom{11}{11}$ | 24½ (1²) 45¾ (1²) 23¾ (1³) |
| 1 acre (about) 0.40 Hectare or 0.56 Prussian Morgen. 1 bushel (about) 0.36 Hectolitre or 0.56 Prussian Scheffel. 1 lb. (pound avoir.) (about) 0.45 Kilogramme or 0.91 Zollyerein Pfund. 1 lb. (pound avoir.) (about) 0.45 Kilogrammes or 0.92 Pr. Scheffel 1 cwt. (hundredweight) (about) 0.49 Heloglames or 0.42 Pr. Morgen. 1 lb. per acre (about) 1.12 Kilogrammes per Hectare or 0.54 Zolly Ptl. per Pr. Morgen. 1 cwt. per acre (about) 1.25 Kilogrammes per Hectare or 0.64 Centaer per Pr. Morgen. 1 cwt. per acre (about) 1.25 Kilogrammes per Hectare or 0.64 Centaer per Pr. Morgen. 2 cvt. (about) 2.5 Kilogrammes per Hectare or 0.64 Centaer per Pr. Morgen. 2 cvt. (about) 2.5 Kilogrammes per Hectare or 0.64 Centaer per Pr. Morgen. 3 cvt. (about) 2.5 Kilogrammes per Hectare or 0.64 Centaer per Pr. Morgen. 4 cvt. (about) 2.5 Kilogrammes per Hectare or 0.64 Centaer per Pr. Morgen. 5 cvt. (about) 2.5 Kilogrammes per Hectare or 0.64 Centaer per Pr. Morgen. 6 cvt. (about) 2.5 Kilogrammes per Hectare or 0.64 Centaer per Pr. Morgen. 7 cvt. (about) 2.5 Kilogrammes (about) 2.5 Kilogrammes | | | Manures, per acre; fifteenth Season—1866. | Constitutionsly Superphotosphare of Lime (Ω) Mixed Alkahes (Ω) ; and "Superphosphate of Lime" | Unmanured continuously | 200 lbs. Ammonia-salts © ; and "Superphosphate of Lime" | 8. (4) ditto ; and "Superphosphate of Lime" | s. (4) ditto i and "Superphosphate of Lime"; none i and "Superphosphate of Lime"; "Mixed Alkalies"; and 200 lbs. each, Silicate of Soda of ditto i "Superphosphate of Lime"; "Mixed Alkalies"; and Silicate of Lime (9) | 1000 lbs. © Rape-cake ; and "Superphosphate of Lime" ; and "Mixed Alkalies ; | 275 lbs. Witrate of Soda | Sulphate of Potass ; and "Superphosphate of Lime" (30) |
| | 71 | , | | Onm Supe Mixe | Onm Ashe Farn | 200 lbs. 200 lbs. 200 lbs. 200 lbs. | 200 lbs. (4) 200 lbs. (4) 200 lbs. (4) 200 lbs. (4) 200 lbs. (4) | S. 200 lbs. (4) S. 200 lbs. (4) S. 200 lbs. (5) S. 200 lbs. (4) | 1000 1000 1000 1000 | | 200 lbs. (9) g 200 lbs. (9) 100 lbs. eac |
| PLOTS. | | | | 0.004 | $6\binom{1}{2}$ | 4324 AAAA | 1 AA. 2 AA. 4 AA. | 1 AAS. 2 AAS. 3 AAS. 4 AAS. | 1284 0000 | 2 N.S. | 5 O. M. |
| | | | | | | | | | | | |

(2) 200 lbs. Bone-ash, 150 lbs. Sulphuric acid (sp. gr. 1·7).

(3) 200 lbs. Sulphate of Potass, 100 lbs. Sulphate of Potass, 100 lbs. Magnesia (for the first six years, 300 lbs., 200 lbs., and 100 lbs., respectively).

(4) 400 lbs. per annum for the first six years, and 200 lbs. only each year since.

(5) 400 lbs. per annum for the first six years, and 100 lbs. only seady six years, and 100 lbs. only seady year since.

(7) 300 lbs. Bone-ash, and 100 lbs. Only sea since.

(8) 550 lbs. Nitrate of Soda for 1853-4-5-6, and 7; and 275 lbs. only each year since.

(9) Annunia-salts also the first six years, and 200 lbs. each year since.

(19) Average of 13 years only.