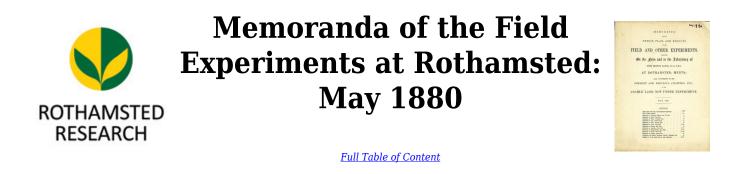
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Experiments on Barley; Hoos Field

Rothamsted Research

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| | R ON THE SAME LAND, WITHOUT MANURE, AND WITH DIFFERENT |
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| PRODUCE PER ACRE. | | | | | | | , (| 9) | | | | | | 0 |
|--|--|--|--|-------------------------------|---|--|---|---|--|--|---|---------------------------------|---|--|
| JOB PER AORE. | | PLOTS. | | | 4 3 2 1 0 0 0 0 | н 8 8 А. А. А. А. А. | 1 AA. 3 AA. 4 AA. | 1 AA8. 2 AA8. 3 AA8. 4 AA8. | 0000 1000 | 1 N. 2 N. | 5 0. 5 A. | $\frac{1}{2}$ 6 | $\binom{1}{2}_{7}$ | |
| IGE PER ACRE. | eason, | | Total | Straw. | C W to U to | 112 1182 1182 203 | $\begin{array}{c} 94\\ 228\\ 118\\ 218\\ 218\\ 8\end{array}$ | 164 234 138 138 238 | 21_8^2 21_8^2 23_4^1 23_4^1 | 13 ⁸ 15 ⁸ | 78 284 (¹⁺) | 5 44 | $\frac{112}{32\frac{1}{2}}$ | st ycars, |
| GE PER ACRE. | r-eighth S 1879. | 1 Corn. | | Weight Per Bushel. | 1bs. 483 513 513 503 503 | 5005 5044 0044 0044 0044 0044 0044 0044 | 49 514 49 49 | 49 50 51 8 49 49 49 49 | 50 498 8498 8498 864 864 864 864 864 864 864 864 864 86 | 483 483 | 48 484 (¹⁴) | $\frac{48}{48_{2}^{1}}$ | $47\frac{3}{20}$ | way as th la, the fir , and 20 |
| PRODUCE PER ACR. | Twen | Dressed Corn. | | Quantity. | Bushels. 64 73 61 61 73 74 | 15 27 16 27 4 27 4 27 | 133 268 168 252 | 1985 2748 2344 2948 2948 | 273 285 266 314 | 17 213 | $24\frac{73}{4}$ (14) | 8 6 <u>3</u> | 168 368 | the same ear since. ate of Soc e. 13 years |
| PRODUCE PER ACRE. | | | w. | 26 Years, 1852-77. | Cwts. 10 ³ 12 ⁴ 11 ⁴ 11 ⁴ 13 ⁴ | $\frac{17_8}{26}$ 26 $27_{\frac{1}{2}}$ | $20\frac{2}{4}$ $28\frac{2}{4}$ $30\frac{6}{6}$ $30\frac{6}{6}$ | | 251 261 271 | $\frac{22}{24\frac{2}{4}}$ (11) | $\frac{111}{266} (") \\ \frac{266}{114} (") \\ 1114 (") $ | 114 11 | 26g (13) 28 | in other respects, manured in the same way as the s, and 1000 lbs. only, each year since. sphute of Lime, without Nitrate of Soda, the first 1275 lbs. only, each year since. (¹²⁾ Avenages of 7 years, 13 years, and 20 ye ured), and 26 years. the wet season. |
| PRODUCE PER ACRE | | | Total Straw. | 13 Years, 1865-77. | Cwts. 88 832 832 104 410 | 15_{4} 23_{4} 25_{4} 25_{4} | $17\frac{3}{25\frac{3}{2}}$ $19\frac{3}{8}$ $26\frac{3}{2}$ | 20 ² 23 ²¹¹ 23 ²¹¹ 29 ² 29 ² | 2321 238 248 248 248 8 | 20 22 | $^{82}_{248}_{108}_{108}$ | 8 ² 885 | $21 \\ 28\frac{1}{2}$ | espects, m espects, on Lime, wi only, end Averages i 26 years season. |
| PRODUCIS P | 75 | | | 13 Years, 1852-64. | Cwts, 127 144 134 152 153 | 29 29 29 29 3 29 3 29 3 3 3 3 3 3 3 3 3 3 | 231_{26} 26_{32} 34_{42}^{26} | • • • • | 28 31 31 28 28 28 28 28 28 28 28 28 28 28 28 28 | 24_8^1 27_{4}^8 | 135 293 133 | $13\frac{3}{4}$ $13\frac{3}{8}$ | 284 284 | in other r s, and 10 sphate of 275 lbs. (¹²) ured), and the wet |
| P | mum. | | shel. | 26 Years, 1852-77. | 1bs. 521 53 53 53 | 521 532 541 | 522 5328 5328 5328 5328 5328 5328 5328 5 | | 54 54 54 54 | ${52\frac{5}{53}}{10}$ | $\left\{ \begin{array}{c} 53\frac{1}{2}\\ 54\frac{1}{6}\\ 53\end{array} \right\} \left(11 \right)$ | 525 523 | $54\frac{1}{2}$ (13) | e, e, e, on and |
| | Average per Annum | | Weight per Bushel. | 13 Years, 1865-77. | 10s. 53 533 533 533 | 53 54 55 24 55 24 | 53 548 5328 552 | 54 55! 54 ³ 553 | 555 554 554 | 53 <u>3</u> 54 <u>4</u> | 543 552 535 535 535 | 53 <u>1</u> 53 <u>1</u> | 55 55 ³ | ave been, for the fin of 13 by cwts of -5-6, a 3-4-5-6, a and 25 y and 25 year of the fou |
| an a | Aver | Corn. | | 13 Years, 1852-64, | 522 522 522 522 522 522 522 522 522 522 | 52_{6}^{52} | 514 514 524 524 524 524 524 524 524 524 524 52 | :::: | 57 27 27 27 29 28 48 29 29 28 48 | $52 \\ 51_{4}^{2}$ | 52_{4}^{0} | 52 52 ₈ | 543 5813 | ilicates, h r amum Potass, and Potass, and r 1855 a for 1855 a for 1855 a for 1855 a for 1855 a for 1850 a for 1850 a for 1850 a for 1850 a for 1855 a for 18555 a for 18555 a for 18555 a for 18555 a for 185555 |
| 3 | - | Drossed | | 26 Years, 1852–77. | Bushels. 183 24 203 253 253 | 813 845 844 85 84 14 18 88 84 14 18 88 88 18 19 19 19 19 19 19 19 19 19 19 19 19 19 | 353 478 357 48 | :::: | 444 458 464 464 464 | $\frac{36\frac{1}{2}}{40\frac{5}{6}}$ (11) | $\frac{207}{433}_{196}^{21} \binom{11}{(12)}_{12}$ | $20\frac{1}{2}$ | 46 ⁽³⁾ 48 ⁵ 48 ⁵ | excepting the addition of the Silicates, have been, and an "AA" piols. (A) 2000 lbs. Rape-cake per anium for the firsts six year (1832). Nither alone each year since, "G, and T; "(9) 550 lbs. Nither alone each year since, but not since, "(1) Averages of 12 years, 13 years, 14 years, (1) Averages of 20 years (with dung), 6 years (unit), 19 Produce not weighted, yours, (unit) Produce not weighted, yours, (unit) By mistate adoi have, 19 By the fourthese of the produce in the fourth of the produce in the fourth of the produce in the produce of the produce of the produce in the produce in the produce of the |
| | | | Quantity. | 13 Years, 1865–77. | Bushels. 158 197 197 168 204 | $281 \\ 434 \\ 318 \\ 421 \\ 821 $ | $\begin{array}{c} 302\\451\\8\\316\\8\\8\end{array}\end{array}$ | 364 464 405 473 | 414 4284 444 444 | 344 38 | 17 월 41 ⁸ 17 ⁸ | $15_{\hat{6}}$ | 385 492 | e addition 6 lbs. Ra 1 bs. Sulj. 8 Nitrate 1 bs. Nitrate 1 bs. Nitrate 1 bs. Nitrate 1 bs. outores 1 bs |
| | | | | 13 Years, 1852-64. | Bushels, 22 24 28 24 30 4 28 30 4 | $\begin{array}{c} 34_3\\ 48_1\\ 48_6\\ 36_8\\ 47_8$ 47_8 | $\frac{40}{50\frac{1}{2}}$ | :::: | 47 4481 4821 4821 4821 482 | 387 4388 888 | 245 45 23_{1} 23_{1} | $24\frac{3}{4}$ 24 | 48 4 47 3 | excepting th • AA "plots • AA "plots • AA "plots • AA " • AA " • Book • AA " • AA " • Book • AA " • Book • AA " • Book • AA " • Plots • Plots • AA " • Plots • Plots • Plots • AA " • Plots • Pl |
| $= (about) 0.40 Hectare \dots \dots \dots \dots 0^r$ | (about) 0.45 Kilogramme or 0.91 (about) 51.0 Kilogramme or 1.02 | = (about) 51.0 Kilogrammes or 1.02 = (about) 0.9 Hectolitre per Hectare or 0.42 | $\dots = \langle about \rangle$ 1.12 Kilogramme per Hectare or 0.57 e $\dots = \langle about \rangle$ 125.5 Kilogrammes per Hectare or 0.64 | Manures, per acre, per annum. | Umanured continuously Unite (0) | 200 lbs. Ammonie-sults (d) | Nifrate Soda | 275 Ibs. Nitrate Soda, 400 Ibs. Silicate Soda (9) | 1000 lbs. Rape-cate | 275 lbs. Nitrate of Soda | 200 lbs. ^(b) Sulphate of Potass, 3 [‡] ovts. Superphosphate ⁽¹⁰⁾ | Unnanumed continuously | Farnyard Manure 14 tons, 20 yrs, 1552–71, av. prod. 484 bush. ; unmanmed since, av. prod., 7 yrs, 1572–8, 364 bush. Farnyard Manure 14 tons, every year; av. produce, 20 years, 1852–71, 484 bush.; 7 years, 1872–8, 494 bush. | (1) The "Superphosphate of Line" is, in all cases, made from 200 Ibs. Bone-ash, 150 Ibs. Suphuric acid ap. gr. 17 (and water). (a) 300 Ibs, per anoun for the first six years, 1832–7. (b) 300 Ibs, per anoun for the first six years, 1832–7. (c) 200 Ibs, per anoun for the first six years, 1832–7. (c) 200 Ibs, per anoun for the first six years, 1832–7. (c) 200 Ibs, per anoun for the first six years, 1832–7. (c) 200 Ibs, per anoun for the first six years, 1832–7. (c) 200 Ibs, per anoun for the first six years, 1832–7. (c) The "Ammonia-salts "in all cases equal parts Sulphate and Muriate of Ammonia of Commerce. (c) Titst 6 years, 1852–7, "im-and all cases equal parts Sulphate and Muriate of Solin, store and since 150 Ibs. Ammonia-salts per annum. 275 Ibs. Nitrate of Solai sreekond to contain the same amount of Nitrgen as 200 Ibs. "Ammonia-salts amount of Nitrgen as 200 Ibs. "Ammonia-salts amount of Nitrgen, respectively, one Ibs' finates of Solai, and a fine, 2400 Ibs. Minonia-salts and and a since and the suman. 275 Ibs. Nitrate of Solai are first size anound to Nitrgen as 200 Ibs. "Ammonia-salts and a since anound the suma mount of Nitrgen, as 200 Ibs. Silicate of Solai and solar size, work, propiled per arcs, but in 1868, and since, 200 Ibs. Silicate of Solai, and and Solai, and and Solai and and Silicate of Line were applied per arcs, but in 1868, and since, 400 Ibs. Silicate of Solai, and and and Silicate of Line were applied per arcs, but in the Solai and Sol Ibs. Silicate of Solai, and and and Silicate of Line were applied per arcs, but in 1868, and since, 400 Ibs. Silicate of Solai, and and Silicate of Line were applied per arcs, but in 1868, and since, 400 Ibs. Silicate of Solai, and and Silicate of Line were applied per arcs, but in the solai and Solai, and and solai and Solai. |
| 8 9 1 | r.) = aight) = | 1 cwt. (hundredw | 1 lb, per acre | 1 | Unmanured continuously 31 cwts. Superphosphato 200 lbs. (2) Sulphato Pota 200 lbs. (2) Sulphato Pota | 200 Ibs. Ammonia-salfs ⁽⁴⁾ 200 Ibs. Ammonia-salts, a: 200 Ibs. Ammonia-salts, 2 200 Ibs. Ammonia-salts, 2 | 275 Ibs. N.tra 275 Ibs. Nitra 275 Ibs. Nitra 275 Ibs. Nitra | 275 Ibs. Nitur 275 Ibs. Nitur 275 Ibs. Nitur 275 Ibs. Nitur and 3 <u>3</u> ewt | 1000 lbs. Raj 1000 lbs. Raj 1000 lbs. Raj 1000 lbs. Raj | 275 lbs. Nitrate of Soda 275 lbs. ⁽⁹⁾ Nitrate of Sod | 200 lbs. © S 200 lbs. © S 100 lbs. S | Ummanured Ashes (burnt | Farmyard N Farmyard M | acid sp. (* (* (* (* (* (* (* (* (* (* (* (* (* (|