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Yields of the Field Experiments 1876



Full Table of Content

Experiments on Oats; Geescroft Field

Rothamsted Research

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(5)

GEESCROFT FIELD.

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

Previous Cropping—1847 and 1848, Clover, Experimental Manures; 1849—1859, Beans, Experimental Manures; 1860, Fallow; 1861 and 1862, Wheat, Unmanured; 1866, Beans, Unmanured; 1867, and 1868, Wheat, Unmanured.

First Experimental Oat Crop in 1869.

(Area under Experiment, 3 acre.)

| | | | | | | | , , , , | | , | |
|-------------------|--|-------------------------------|--------------------------|--------------|---|----------------------------|--|------------------------------|--|--|
| | NNUM 1873. | | Total Straw. | cwts. 10g | 138 | 283 | 411 | 273 | 35 | |
| | AVERAGE PER ANNUM 5 Years, 1869-1873. | Corn. | Weight per Bushel. | lbs. 33≩ | 35 | 35% | 37 | 353 | 35 | |
| | AVERAC 5 YEAR | Dressed Corn. | Quantity. | Bushels. | 243 | 47 | 29 | 471 | 573 | |
| | 873. | | Total Straw. | cwts. 5g | 1000 000 | 163 | 275 | 163 | 24 | |
| | 5TH SEASON, 1873. | Corn. | Weight per Bushel, | :1bs. | 12 88 85 | 325 | 24 24 | 303 | 388 | SLY. |
| | 5тн 8 | Dressed Corn. | Quantity. | Bushels, | 17 | 363 | 481 | 39\$ | 688 | PREVIOU |
| | .872. | | Total Straw. | cwts. | 103 | 308 | 451 | 208 | 24 | TUCH AS |
| | 4TH SEASON, 1872. | Corn. | Weight per Bushel. | 1bs. | 374 | 372 | 393 | 368 | 373 | LF AS M |
| PRODUCE PER ACRE. | 4тн S | Dressed Corn. | Quantity. | Bushels. | 19 <u>\$</u> | 553 | 623 | 421 | 448 | AL MANURES AS BEFORE, AMMONIA-SALTS AND NITRATE OF SODA ONLY HALF AS MUCH AS PREVIOUSLY. |
| ODUCE P | 871. | | Total Straw. | cwts. 114 | 131 | 408 | 50 | 343 | 483 883 | F Soda |
| PB | SED SEASON, 1871. | Corn. | Weight per Bushel. | 1bs. | 351 | 363 | 358 | 368 | 60 814 | TRATE C |
| * | S CAS | Dregsed Corn. | Quantity. | Bushela, | 22 | 571 | 588 | 55 | ₹09 | N GNA 8 |
| | 870. | | Total Straw. | cwts. | 968 | 173 | 2888 | 23 | 288 | IA-8ALT |
| | 2nd Season, 1870. | Corn. | Weight per Bushel, | 1bв. | 351 | 347 | 36 | 351 | 63 7G 814 | AMMON |
| | 2ND S | Dressed Corn. | Quantity. | Bushels. | 198 | 30 | 508 | 363 | 50 | BEFORE, |
| | 369. | | Total Straw. | cwts. 194 | 242 | 362 | 54 | 423 | 497 | TRES AS |
| | SEASON, 1869. | Corn. | Weight per Bushel. | lbs. 363 | 383 | 373 | 393 | 383 | 381 | L MAN |
| | 1st S | Dressed Corn. | Quantity. | Bushels. | 45 | 563 | 75‡ | 624 | 693 | MINERA |
| | | MANUKES, PER ACKE, PER ANNUM. | | Unmanured | (200 lbs. Sulphate Potass 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate of Lime (0) | 400 lbs. Ammonia-salts (2) | (400 lbs. Ammonia-salts, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ owts. Superphosphate | 550 lbs. Nitrate of Soda (3) | (550 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate | SECOND 5 YEARS; MINER |
| | Drong | i nois. | | - | 67 | 63 | 4 | 10 | 9 | |

| # | 6тн 8 | 6тн Ѕвавом, 1874. | .874. | 7TH S | 7TH SEASON, 1875. | 875. | STH SE | STH SEASON, 1876. | 376. | S HTG | 9TH SEASON, 1877. | 377. | 10TH S | 10TH SEASON, 1878. | 878. | AVERAGE PE 5 YEARS, 18 | 38, 18 |
|---|----------|------------------------|---------|----------|----------------------------------|---------|----------|-------------------|-------|----------|-------------------|-------|----------|--------------------|-------|---------------------------|--------|
| pomneutu | Bushels. | 1bs. | cwts. | Bushels. | 1bs. | cwta. | Bushels. | lbs. | cwts. | Bushels. | lbs. | cwts. | Busbels. | lbs. | cwts. | Bushels. | lbs. |
| 01bs. Sulphate Potass, 100 lbs. Sulphate Soda,) 100 lbs. Sulphate Magnesia, and 3½ cwts.) Superphosphate of Lime (¹) | 138 | 314 | 64 | 131 | 292 | £9 | | | | | | | | | | | |
| 0 lbs, Ammonia-salts (2) | \$74 | 333 | 223 | 303 | 322 | 153 | | | | | | | | | | | |
| 01bs. Ammonia-salts, 2001bs. Sulphate Potass, 100 1bs. Sulphate Soda, 100 1bs. Sulphate Magnesia, and 3½ owts. Superphosphate | 463 | 348 | 248 | 308 | 342 | 204 | | | | | | E | | | | | |
| 5 lbs. Nitrate of Soda (3) | 351 (4) | 354 (4) 30 (4) 164 (4) | 16½ (*) | 234 (4) | 314 (4) 118 (4) | 113 (*) | | | | | ¥ | | | | | | |
| 5 lbs. Nitrate of Soda, 200 lbs. Sulphate Potass, 100 lbs. Sulphate Soda, 100 lbs. Sulphate Magnesia, and 3½ cwts. Superphosphate | 28½ (*) | 33½ (4) 165 (4) | 16§ (4) | 285 (4) | 28\\ (4) 33\\\ (4) 14\\\ (4) | 14½ (*) | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

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"Superphosphate of Lime"—in all cases, made from 200 lbs. Bone-ash, 150 lbs. Sulphuric Acid sp. gr. 1.7 (and water).

"Ammonias-stls."—in each case, segral parts Sulphae and Muriate of Ammonias of Commerce.

"Ammonias-stls."—in such case, segral parts Sulphae and Muriate of Ammonias-salls."

"Substitute of Soda is reckoned to contribute as measurement of Soda had been applied year after year, the land, though more worked, was so wet that it could not be got into favourable condition for sowing, and the plant was very irregular.

On these plots, where large quantities of Nitrate of Soda had been applied year after year, the land, though more worked, was so wet that it could not be got into favourable condition for sowing, and the plant was very irregular.