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## **Rotations: Agdell Field**

## **Rothamsted Research**

Rothamsted Research (1867) *Rotations: Agdell Field ;* Memoranda Of The Plan And Results Of The Rothamsted Field Experiments, May 1866, pp 7 - 7 - **DOI:** https://doi.org/10.23637/ERADOC-1-232

These Experiments were commenced in 1848; so that the present crop (1866) is the 19th experimental one, or the third crop of the Fifth Course. A G D E L L FIELD. These Experiments were commenced in 1848; so that the present crop (1866) is the 19th experimental one, or the third crop of the Fifth Course. Course; and one-third manured (also for the turnip-crop only) with a complex manure, as a cascibled in the foot-note, No. 2. In the Second, Third, and Fourth Courses, instead of clover, hold on the other half the roots, No. 2. From half of each of the turnip-crop (roots and leaves) was nemoved; and on the other half the roots were eaten on the land by sheep, and the uneaten leaves were spread and ploughed in. In the case of all the other crops, the total produce was removed from the land. The abstract of results given below relates to the portions of each plot from which the turnip-crops were entirely removed; and on the land. The abstract of results given below relates to the portions of each plot from which the turnip-crops were entirely removed; and on which, in the later courses, beans (not fallow) replaced the clover. (Area under experiment, about 2 <sup>3</sup> acres.)			PLOT 3. Complex Manure <sup>(3)</sup> , for the Turnip Crops only.	Total Produce.		441 cwts. 5656 lbs. 2194 cwts. 5500 lbs.		433 cwts. 4873 Ibs. 2065 Ibs. 6371 Ibs.		3464 cwts. 5168 lbs. 2357 lbs. 7154 lbs.		90 <sup>2</sup> / <sub>4</sub> cwts. 7391 lbs. 5990 lbs. 7626 lbs.		185 cwts. 5148 lbs. 3343 lbs. 456 lbs.	-200 lbs. Bone-ash, and econd Course-300 lbs. Bape- Suithed of lbs. Bape-
				Straw (or Leaf).		46 <sup>1</sup> / <sub>2</sub> cwts. 2983 Ibs. 3552 Ibs.	36 <sup>3</sup> / <sub>2</sub> cwts. 2604 lbs. 1355 lbs. 3942 lbs.		12½ cwts. 2435 lba. 1520 lbs. 4610 lbs.		$\begin{array}{c} 3\frac{1}{4} \text{ cwts.} \\ 3940 \text{ lbs.} \\ 3280 \text{ lbs.} \\ 4697 \text{ lbs.} \end{array}$		8 <sup>3</sup> /2 cwts. 2595 lbs. 1990 lbs. 300 3 lbs.	fth Courses—20 ape-cake; Secon e of Ammonia, cid 100 lbs Sr	
	Prussian Morgen.			Corn (or Roots).		394 <sup>3</sup> cwts. 2673 lbs. 1948 lbs.	2ND COURSE, 1852-55.	396 <u>1</u> cwts. 2269 lbs. 710 lbs. 2429 lbs.	Зяр Сотяѕе, 1856-59.	333 <sup>3</sup> cwts. 2733 lbs. 837 lbs. 2544 lbs.	4тн Соивѕв, 1860-63.	$\begin{array}{c} 87\frac{1}{2} \text{ cwts.} \\ 3451 \text{ lbs.} \\ 2710 \text{ lbs.} \\ 2929 \text{ lbs.} \end{array}$	5тн Соикв, 1864-67.	1764 cwts. 2553 lbs. /353 lbs. /564 lbs.	d, Fourth and Fi , and 1000 lbs. R a. 100 lbs. Muriat 00 lbs. Sulphuric A
	or 0.57 Zollverein Pfund, per Prussian Morgen. or 0.64 Centner per Pr. Morgen.	PRODUCE PER ACRE.	PLOT 2. Superphosphate of Lime <sup>(1)</sup> , alone, for the Turnip Crops only.	Total Produce.		- 327 cwts. 3575 lbs. 1994 cwts. 5253 lbs.		243 <u>4</u> cwts, 3560 lbs. 1534 lbs. 5789 lbs.		143 <sup>1</sup> / <sub>4</sub> cwts. 3076 lbs. 1605 lbs. 6120 lbs.		$30\frac{3}{4}$ cwts. 3775 lbs. 4040 lbs. 5619 lbs.		72 <sup>3</sup> / <sub>4</sub> cwts. 3394 lbs. 1463 lbs. 3222 lbs.	lphuric Acid; Thii uriate of Ammonia lphate of Ammoni 0 lbs. Bone-ash. 14
				Straw (or Leaf).		35 cwts. 1870 lbs. 3371 lbs.		201 cwts. 1873 lbs. 1103 lbs. 3525 lbs.		$\begin{array}{c} 7\frac{1}{2} \text{ cwts.} \\ 1475 \text{ Ibs.} \\ 1155 \text{ Ibs.} \\ 3930 \text{ Ibs.} \end{array}$		1 <u>4</u> cwts. 2000 Ibs. 2150 Ibs. 3390 Ibs.		1615 $15^{\frac{4}{2}}$ cwts. 1615 $15$ s. 978 $15$ s. 1966 $15$ s.	ie-ash, 120 lbs, Su nonia, 100 lbs, Mu to Acid, 100 lbs, Su te of Marmesia, 20
	Kilogramme per Hectare, Kilogrammes per Hectare,	F		Corn (or Roots).		292 cwts. 1705 lbs. 1882 lbs.		2234 cwts. 1687 lbs. 431 lbs. 2264 lbs.		136         cwts.           1601         lbs.           450         lbs.           2190         lbs.		29 <sup>1</sup> / <sub>4</sub> cwts. 1775 Ibs. 1890 Ibs. 2229 Ibs.		68 cwts. 1779 lbs. 4.85 lbs. / 2.56 lbs.	urse-160 lbs, Bor , Sulphate of Amn 120 lbs, Sulphuric
	(about) 1.12 Ki (about) 125.5 Ki		PLOT 1. Unmanured continuously.	Total Produce.		19.5 cwts. 3794 lbs. 1944 cwts. 5389 lbs.		304 cwts. 4465 Ibs. 1445 Ibs. 5859 Ibs.		$\begin{array}{c} 34\frac{1}{2} \text{ cwts.} \\ 5337 \text{ lbs.} \\ 1515 \text{ lbs.} \\ 6262 \text{ lbs.} \end{array}$		1 cwt. 4718 lbs. 3661 lbs. 6350 lbs.		91 cwts. 4182 lbs. 1689 lbs. 3473 lbs.	(sp. gr. 1.7); Second Course- Sulphurie Acid, 100 lbs, Su resis, 160 lbs, Bone-ash, 120 200 lbs,, Sulphate of Sofa, 120
	U II :	24		Straw (or Leaf).		19 <sup>3</sup> cwts. 2088 Ibs. 3431 Ibs.		41 cwts. 2430 lbs. 1055 lbs. 3619 lbs.		$\begin{array}{c} 2\frac{2}{2} \ {\rm cwts.} \\ 2600 \ {\rm lbs.} \\ 1100 \ {\rm lbs.} \\ 4030 \ {\rm lbs.} \end{array}$		$\begin{array}{c} (6\frac{1}{4} \ \text{Ibs.})\\ 2522 \ \text{Ibs.}\\ 1840 \ \text{Ibs.}\\ 3467 \ \text{Ibs.} \end{array}$		$\begin{array}{c} 3\frac{1}{2} \text{ cwts.} \\ 2154 \text{ Ibs.} \\ 1\sigma/3 \text{ Ibs.} \\ 2/4 \text{ 3 Ibs.} \end{array}$	nuric Acid (sp. gr. n, 100 lbs, Sulphn ate of Magnesia, 1 of Potass, 200 lb
	1 lb. (pound avoir.) per acre 1 cwt. (hundredweight) per acre	2		Corn (or roots).		175‡ cwts. 1706 lbs. 1958 lbs.	26 cwts. 2035 Ibs. 390 Ibs. 2240 Ibs.		32 cwts. 2737 lbs. 415 lbs. 2232 lbs.		I cwt. 2196 lbs. 1821 lbs. 2883 lbs.		$\begin{array}{c} 8\frac{3}{4} \text{ cwts.} \\ 2028 \text{ Ibs.} \\ 676 \text{ Ibs.} \\ 1336 \text{ Ibs.} \end{array}$	and 100 lbs. Sulph 100 lbs. Bone-asi dat, 100 lbs. Sulphate 300 lbs. Sulphate	
	1 IL		Jrop.			:: :: :: :: ::		1319 1339		1111		2124 1111	A	4 4 4 4 4 4 4 4	Bone-ash, Pearl-ash, hate of So Courses
Experiments were con third of the land has be cornes; and one-third na te Second, Third, and F a half of each of the thir were spread and plough abstract of results given replaced the clover.		*	Description of Crop.			Swedish Turnips Barley	(e) 	Swedish Turnips Barley		Swedish Turnips Barley		Swedish Turnips Barley		Swedish Turnips Barley Beans	<ol> <li>First Course—100 lbs. Bone-ash, and 100 lbs. Sulphuric Acid (sp. gr. 1-7); Second Course—160 lbs. Bone-ash, 120 lbs. Sulphuric Acid yer acre.</li> <li>First Course—100 lbs. Pearl-ash, 100 lbs. Sulphuric Acid (sp. gr. 1-7); Second Course—160 lbs. Bone-ash, 120 lbs. Muriate of Ammonia, and 1000 lbs. Rape-cake; Second Course—300 lbs. Sulphure of Pates, 100 lbs. Sulphate of Magnesia, 130 lbs. Sulphate of Magnesia, 130 lbs. Sulphate of Magnesia, 130 lbs. Sulphate of Ammonia, and 1000 lbs. Rape-cake; Second Course—300 lbs. Sulphate of Magnesia, 130 lbs. Sulphate of Sodi, 100 lbs. Sulphate of Sodi, 100 lbs. Sulphate of Sodi, 100 lbs. Sulphate of Magnesia, 130 lbs. Sulphate of Ammonia, 100 lbs. Sulphate of Sodi, 100 lbs. Sulphate o</li></ol>
These E. Due-thir coun n the Sc rom ha werv repla		24	Years.			1848 1849 1850 1851 1851		1852 1853 1853 1854 1855		1856 1857 1858 1858 1859		1860 1861 1862 1862 1863	ч,	1864 1865 1866 1866 1867	(1) Fi (1) Fi (2) Fi (2

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