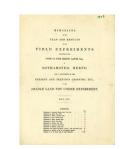
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Yields of the Field Experiments 1875



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Experiments on Rotation; Agdell Field

Rothamsted Research

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AGDELL FIELD.

EXPERIMENTS ON AN ACTUAL COURSE OF ROTATION-TURNIPS, BARLEY, LEGUMINOUS CROP (OB FALLOW), AND WHEAT.

These Experiments were commenced in 1848; so that the present crop (1875) is the 28th experimental one, or the fourth crop of the Seventh Course. One-third of the land has been continuously unmanured; one-third manured with Superphosphate of Lime alone once every four years, that is for the turnip-crop commencing each course; and one-third manured (also for the turnip-crop only) with a complex manure, as described in the foot-note, No. 2.

the foot-note, No. 2.

In the Second, Third, and Fourth Courses, clover was sown, but failed; and in them, and in the Fifth and Sixth Courses, beans were taken instead, on half of each plot, and the other half left fallow; for the third crop of the Seventh Course clover was again sown (spring 1873), on half of each plot, the other half being left fallow.

From half of each of the three plots the whole turnip-crop (roots and leaves) was removed; and on the other half the roots were eaten on the land by sheep, and the uneaten leaves spread and ploughed in. In the case of all the other crops, the total produce was removed from the land.

The abstract of the results given below relates to the portions of each plot from which the turnip-crops were entirely removed; and on which, in the second, third, fourth, fifth, and sixth courses, beans (not fallow) replaced the clover.

(Area under experiment, about 21 acres.)

x 2					Pi	ODUCE PER ACR	Е, 8			1 4 1
Years.	Description of Crop.	PLOT 1. Unmanured continuously.			PLOT 2. Superphosphate of Lime, alone, for the Turnip Crops ouly.			Plot 3. Complex Manure,2 for the Turnip Crops only.		
1		Corn 3 (or Roots).	Straw (or Leaf).	Total Produce.4	Corn ³ (or Roots).	Straw (or Leaf).	Total Produce.4	Corn 3 (or Roots).	Straw (or Leaf).	Total Produce,*
		1		1sr Cou	RSE, 1848-51		1 21 0			
1848 1849 1850 1851	Norfolk White Turnips Barley	65½ cwts. 44% bush. 28½ bush.	45‡ cwts. 2983 lbs. 3431 lbs.	111½ cwts. 5656 lbs. 54 cwts. 5399 lbs.	225% cwts. 29% bush. 28 bush.	106½ cwts. 2111 lbs. 3371 lbs.	332 ewts. 3841 lbs. 5°4 ewts. 5253 lbs.	218 cwts. 28½ bush. 28½ bush.	1514 cwts. 2088 lbs. 3552 lbs.	3694 cwt 3794 lbs. 63 cwt 5500 lbs.
				2nd Cour	rse, 1852-55					
1852 1853 1854 1855	Swedish Turnips. Barley Beans Wheat	26 cwts. 34% bush. 5% bush. 35% bush.	4½ cwts. 2430 lbs. 1055 lbs. 3619 lbs.	30½ cwts. 4465 lbs. 1445 lbs. 5859 lbs.	2234 cwts. 284 bush. 57 bush. 354 bush.	20½ cwts. 1873 lbs. 1103 lbs. 3525 lbs.	243½ cwts. 3560 lbs. 1534 lbs. 5789 lbs.	396½ cwts. 38½ bush. 9½ bush. 37% bush.	36½ cwts. 2604 lbs. 1355 lbs. 3942 lbs.	433 cwts 4873 lbs. 2065 lbs. 6371 lbs.
1		7		3rd Cou	rse, 1856-59					
1856 1857 1858 1859	Swedish Turnips Barley	32 cwts. 48½ bush. 6½ bush. 35½ bush.	2½ cwts. 2600 lbs. 1100 lbs. 4030 lbs.	34½ cwts. 5337 lbs. 1515 lbs. 6262 lbs.	136 cwts. 28½ bush. 6½ bush. 34½ bush.	7½ cwts. 1475 lbs, 1155 lbs, 3930 lbs.	143½ cwts, 3076 lbs. 1605 lbs. 6120 lbs.	333% cwts, 48 bush. 12% bush. 39% bush.	12½ cwts. 2435 lbs. 1520 lbs. 4610 lbs.	346‡ cwts, 516s lbs. 2357 ;lbs 7154 lbs.
				4TH COUL	RSE, 1860-63					
1860 1961 1862 1863	Swedish Turnips Barley	1 cwt. 38% bush. 29 bush. 44% bush.	(6½ Ibs.) 2522 Ibs. 1840 Ibs. 3467 Ibs.	1 cwt. 4718 lbs. 3661 lbs. 6350 lbs.	294 cwts. 304 bush. 294 bush. 347 bush.	1½ cwt. 2000 lbs. 2150 lbs. 3390 lbs.	304 cwts. 3775 lbs. 4040 lbs. 5619 lbs.	87½ cwts. 60% bush. 43% bush. 46% bush.	3½ cwts, 3940 lbs. 3280 lbs. 4597 lbs.	904 cwts 7391 lbs. 5990 lbs. 7626 lbs.
				5TH Cou	rse, 1864-67			1-1212		
1864 1855 1866 1867	Swedish Turnips	8‡ cwts. 39 bush. 10‡ bush. 21 bush.	04 cwt. 2154 lbs. 1013 lbs. 2143 lbs.	94 cwts. 4132 lbs. 1689 lbs. 3473 lbs.	68 cwts. 334 bush. 78 bush. 194 bush.	4% cwts. 1615 lbs. 978 lbs. 1966 lbs.	724 cwts. 3394 lbs. 1463 lbs. 3222 lbs.	176‡ cwts, 47½ bush. 20% bush. 23% bush.	84 cwts, 2595 lbs. 1990 lbs. 3003 lbs.	185 cwts 5148 lbs. 3343 lbs. 4567 lbs.
77			4 6 -	бти Соп	rse, 1868-7	L		Nº.		
1868 1869 1870 1871	Swedish Turnips Barley Beans Wheat	Faile 24g bush, 13g bush, 20g bush.	d, and ploughed 1948 lbs. 738 lbs. 2799 lbs.	up. 3358 lbs. 1591 lbs. 4092 lbs.	Faile 28½ bush. 15½ bush. 23½ bush.	d, and ploughed 2025 lbs. 768 lbs. 3048 lbs.	up. 3696 lbs. 1778 lbs. 4521 lbs.	Faile 42½ bush. 24½ büsh. 23 bush.	ed, and ploughed 3309 lbs. 1056 lbs. 3440 lbs.	up. 5900 lbs. 2664 lbs. 4883 lbs.
				7TH Cour	ase, 1872-75		1 :			
1872 1873 1874 1875	Swedish Turnips Barley Clover Wheat	34½ cwts. 23½ bush.	84 cwts. 1343 lbs.	424 cwts. 2717 lbs. 314 cwts.	170§ cwts. 20§ bush	17% cwts. 1565 lbs.	188 cwts. 2875 lbs. 52½ cwts.	3397 cwts. 317 bush.	354 cwts. 1723 lbs.	3754 cwts 3573 lbs. 844 cwts
		Su	MMARY—AV	ERAGE OF TH	E FIRST 6 Co	ourses, 1848	-1871.	N Par		
348, '52, '56, } '60, '64	Swedish Turnips. Barley { Clover, 1850 (calc ⁴ as hay)} Beans Wheat	26% cwts. 38% bush. 12% bush. 30% bush.	I0½ cwts. 2440 lbs. 1149 lbs. 3248 lbs.	37½ cwts. 4619 lbs. 54 cwts. 1980 lbs. 5238 lbs.	136‡ cwts. 30 bush. 13 bush. 29‡ bush.	28 cwts. 1850 lbs. 1231 lbs. 3205 lbs.	164½ cwts. 3555 lbs. 57% cwts. 2084 lbs. 5087 lbs.	242½ cwts. 44½ bush. 22½ bush. 33½ bush.	42½ cwts. 2829 lbs. 1840 lbs. 3874 lbs.	285 cwts, 5362 lbs. 63 cwts. 3284 lbs. 6017 lbs.

Course—160 lbs. Bone-ash, 120 lbs. Sulphuric Acid; Third, Fourth, Flith, Sixth, and seventh Courses—200 lbs. Bone-ash, and 150 lbs. Sulphuric Acid, per acre.

(3) First Course—100 lbs. Pearl-ash, 100 lbs. Bone-ash, 100 lbs. Sulphuric Acid, 100 lbs. Sulphate of Ammonia, 100 lbs. Mariate of Ammonia, and 100 lbs. Sulphate of Soda, 100 lbs. Sulphate of Magnesia, 160 lbs. Bone-ash, 120 lbs. Sulphate of Dias, 100 lbs. Sulphate of Magnesia, 160 lbs. Bone-ash, 120 lbs. Sulphuric Acid, 100 lbs. Sulphate of Ammonia, 100 lbs. Muriate

³⁰⁰ Its, Sulphate of Potass, 200 Ibs. Sulphate of sons, 100 Ios. Sulphate of angressa, 200 Ios. Bone-ash, 150 Ibs. Sulphate Acid, 100 Ibs. Sulphate of Ammonia, and 2000 Ibs. Rape-cake, per acre.

(3) The quantities given in Bukhels represent the Dressed Corn only.

(4) The "Total Produce" of the Corn-crops includes Dressed Corn, Offal Corn, and Total

Straw.