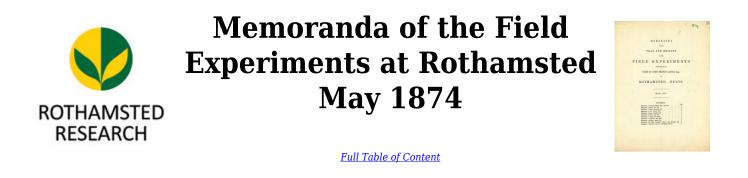
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Experiments on Rotation; Agdell Field

Rothamsted Research

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(9)

AGDELL FIELD.

EXPERIMENTS ON AN ACTUAL COURSE OF ROTATION-TURNIPS, BARLEY, LEGUMINOUS CROP (OR FALLOW), AND WHEAT. EXPERIMENTS ON AN ACTUAL COURSE OF KOTATION—IURNIPS, BARLEY, LEGUMINOUS UROP (OR FALLOW), AND WHEAT. These Experiments were commenced in 1848; so that the present crop (1874) is the 27th experimental one, or the third crop of the Seventh Course. One-third of the land has been continuously unmanured; one-third manured with Superphosphate of Line 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. In the Second, Third, Fourth, Fifth, and Sixth Courses, instead of clover, half of each plot was sown with beans, and the other hall 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; and on which, in the second, third, fourth, fifth, and sixth courses, tourses, courses of each plot from which the turnip-crops were entirely removed; and on which, in the second, third, fourth, fifth, and sixth courses so each plot from which the turnip-crops were entirely removed; and on which, in the second, third, fourth, fifth, and sixth courses (our fallow) replaced the clover.

(Area under experiment, about 21 acres.)

	Description of Crop.	Produce per Acre.								
Years,		PLOT 1. Unmanured continuously.			PLOT 2. Superphosphate of Lime, ¹ alone, for the Turnip Crops only.			PLOT 3. Complex Manure, ² for the Turnip Crops only.		
8		Corn ³ (or Roots).	Straw (or Leaf).	Total Produce.*	Corn ³ (or Roots).	Straw (or Leaf).	Total Produce.*	Corn ³ (or Roots),	Straw (or Leaf).	Total Produce.4
				1st Cour	se, 1848-51.			-		4
1948 1849 1850 1851	Norfolk White Turnips Barley. Clover (calc ^d . as hay) . Wheat.	654 cwts. 442 bush. 284 bush.	45# cwts. 2983 Ibs. 3431 Ibs.	1114 cwts. 5656 lbs. 54 cwts. 5389 lbs.	2254 cwts. 297 bush. 28 bush.	1064 cwts. 2111 lbs. 3371 lbs.	332 cwts. 3841 lbs. 57≩ cwts. 5253 lbs.	218 cwts. 287 bush. 287 bush.	1514 cwts. 2088 lbs. 3552 lbs.	3694 cw 3794 lb 63 cw 5500 lb
				2nd Cou	rse, 1852-55					
1852 1853 1854 1855	Swedish Turnips Barley Beans Wheat	26 cwts. 343 bush. 54 bush. 354 bush.	44 cwts. 2430 lbs. 1055 lbs. 3619 lbs.	304 cwts. 4465 lbs. 1445 lbs. 5859 lbs.	2234 cwts. 284 bush. 57 bush. 354 bush.	201 cwts. 1873 lbs. 1103 lbs. 3525 lbs.	2431 cwts. 3560 lbs. 1534 lbs. 5789 lbs.	3951 cwts. 381 bush. 97 bush. 371 bush.	36½ cwts. 2604 lbs. 1355 lbs. 3942 lbs.	433 cwt 4873 lbs. 2065 lbs. 6371 lbs.
*		1		3rd Cou	rse, 1856-59					
1856 1857 1858 1859	Swedish Turnips Barley Beaus Wheat	32 cwts. 48± bush. 6± bush. 35± bush.	2½ cwts. 2600 lbs. 1100 lbs. 4030 lbs.	341 cwts, 5337 lbs. 1515 lbs. 6262 lbs.	136 cwts. $2S_{2}^{\frac{1}{2}}$ bush. $6_{2}^{\frac{1}{2}}$ bush. $34_{4}^{\frac{3}{4}}$ bush.	74 cwts. 1475 lbs. 1155 lbs. 3930 lbs.	148± cwts. 3076 lbs. 1605 lbs. 6120 lbs.	333% cwts. 48 bush. 12% bush. 39% bush.	121 cwts. 2435 lbs. 1520 lbs. 4610 lbs.	3464 cwis 5163 lbs. 2357 lbs. 7154 lbs.
				4тн Соп	rse, 1860-63		9			1
1860 2861 1862 1863	Swedish Turnips Barley Beans Wheat	1 cwt. 38g bush. 29 bush. 447 bush.	(fi‡ lbs.) 2522 lbs. 1840 lbs. 3457 lbs.	1 cwt. 4718 lbs. 3661 lbs. 6350 lbs.	294 cwts. 308 bush. 295 bush. 345 bush.	1 [‡] cwt. 2000 lbs. 2150 lbs. 3390 lbs.	30% cwts. 3775 lbs. 4040 lbs. 5519 lbs.	871 cwts. 603 bush. 438 bush. 461 bush.	34 cwts. 3940 Ibs. 3280 Ibs. 4697 Ibs.	904 cw 7391 lbs 5990 lbs 7626 lbs
				5TH COU	rse, 1864-67		ac, T			
1864 1865 1866 1867	Swedish Turnips Barley Beans Wheat	8% cwts. 39 bush. 10¼ bush. 21 bush.	04 cwt. 2154 lbs. 1013 lbs. 2143 lbs.	9½ cwts. 4182 Ibs. 1629 Ibs. 3473 Ibs.	68 cwts. 334 bush. 7# bush. 194 bush.	43 cwts, 1615 Ibs. 978 Ibs. 1966 Ibs.	72% cwts. 3394 lbs. 1463 lbs. 3222 lbs.	1764 cwts. 474 bush. 208 bush. 234 bush.	84 cwts. 2595 lbs. 1990 lbs. 3003 lbs.	185 cw 5148 lbs 3343 lbs 4567 lbs
				6TH COU	rse, 1868-7	ι.				
1868 1869 1870 1871	Swedish Turnips Barley Beans Wheat	Faile 24§ bush. 13g bush. 20g bush.	d, and ploughed 1948 lbs. 738 lbs. 2799 lbs.	up. 3358 lbs. 1591 lbs. 4092 lbs.	Faile 284 bush. 154 bush. 235 bush.	d, and ploughed 2025 lbs. 768 lbs. 3048 lbs.	up. 3686 Ibs. 1778 Ibs. 4521 Ibs.	Faile 427 bush. 248 bush. 23 bush.	ed, and ploughed 3309 1bs. 1056 1bs. 3440 1bs.	up. 5900 lbs 2664 lbs 4883 lbs
				7тн Соол	rse, 1872–75					
1872 1873 1874 1875	Swedish Turnips Barley Clover Wheat	341 cwts. 231 bush.	84 cwts. 1343 lbs.	425 cwts. 2717 lbs. cwts.	170g cwts. 20≹ bush.	178 ewts. 1565 lbs.	188 ewts. 2875 lbs. cwts.	3394 cwts. 314 bush.	35≩ cwts. 1723 lbs.	3754 cw 3573 lbs cw
		Su	mmary—Av	ERAGE OF TH	e First 6 Co	ourses, 1848-	-1871.	× 1		1 10
48, '52, '56, ' '60, '64 '49, '53, '57, 7 '61, '65, '69 } 50, '54 '58, } '62, '66, '70 } 51, '55, '59, } '63, '67, '71 }	Swedish Turnips, Barley { Clover, 1950 (calc ⁴ .nshay) Beans Wheat	26% cwts. 38% bush. 12% bush. 30% bush.	10½ cwts. 2440 lbs. 1149 lbs. 3248 lbs.	374 cwts. 4619 lbs. 54 cwts. 1930 lbs. 5238 lbs.	1304 cwts. 30 bush. 13 bush. 293 bush.	28 cwts. 1850 lbs. 1231 lbs. 3205 lbs.	1641 cwts. 3555 lbs. 574 cwts. 2084 lbs. 5087 lbs.	2424 cwis. 448 bush. 224 bush. 338 bush.	4?1 cwts. 2329 lbs. 1340 lbs. 3874 lbs.	205 cwts 5362 lbs. 63 cwts 3284 lbs. 6017 lbs.
(1) First C purse-160 lbs purses - 200 ll (2) First C alphate of A purse-300 lbs	Jourse-100 lbs. Bone-ash, at Sourse-100 lbs. Sulphur bs. Bone-ash, and 150 lbs. Su bourse-100 lbs. Pearl-asb, 10 mmonia, 100 lbs. Muriate s. Sulphate of Potass, 100 lbs asb, 120 lbs. Sulphuric Acid,	ic Acid; Third, lphuric Acid, pe 0 lbs. Bone-ash, of Ammonia, a . Sulphate of So	Fourth, Fifth, S er acre. 100 lbs. Sulphu nd 1000 lbs. Ra oda, 100 lbs. Sulp	ixtb, and Sevent ric Acid, 100 lbs pe-Cake; Second hate of Magnesia	a 300 lbs. Sulp Bone-ash, 1 Ammonia, a (3) The , (4) The	phate of Potass, 5 50 Ibs. Sulphuri nd 2000 Ibs. Ray quantities given	Rape-cake ; Thir 200 Ibs. Sulphate c Acid, 100 Ibs. se-cake, per aore. in Bushels repres " of the Corn-cro	of Soda, 100 lbs Sulphate of A ent the Dressed	. Sulphate of Ma .mmonia, 100 lt Corn only.	gnesia, 200 os. Muriate